ANEJO Nº 6. ESTRUCTURAS

4. Cálculos

2.3. Estudio tensional

CALCULO DE RETRACCION Y FLUENCIA VIADUCTO DE VINAIXA

TABLERO

CALCULO DE DEFORMACION POR RETRACCION Y FLUENCIA

fck	400	
Ec28	36342.36496	
HR	70%	
A	90621.9	cm2
u	5150	cm
e	351.9297087	mm
TIEMPO MEDIO DE PUESTA EN CARGA		
t0	7	
TIEMPO DE LANZAMIENTO		
t	180	

COEFICIENTE DE RETRACCION

Bs(t-t0)	0.195900
epsilon_s	0.000370
Beta_HR	-1.018350
epsilon_cs0	-0.000377
epsilon_cs	-0.000074

COEFICIENTE DE FLUENCIA

FI_HR	1.429208
Beta_fcm	2.424871
Beta_t0	0.634609
Beta_H	800.780797
Beta_c(t-t0)	0.595491

COEFICIENTE DE FLUENCIA

FI	1.309682

fck	400	
Ec28	36342.36496	
HR	70%	
A	90621.9	cm2
u	5150	cm
e	351.9297087	mm
TIEMPO MEDIO DE PUESTA EN CARGA		
t0	7	
TIEMPO INFINITO		
t	10000	

COEFICIENTE DE RETRACCION

Bs(t-t0)	0.835135
epsilon_s	0.000370
Beta_HR	-1.018350
epsilon_cs0	-0.000377
epsilon_cs	-0.000315

COEFICIENTE DE FLUENCIA

FI_HR	1.429208
Beta_fcm	2.424871
Beta_t0	0.634609
Beta_H	800.780797
Beta_c(t-t0)	0.977140

COEFICIENTE DE FLUENCIA

FI	2.149054

CALCULO DE PERDIDAS DE PRETENSADO RECTO

TABLERO

HORMIGON	400	kp/cm2
Ac	9.0621	m2
Ic	20.00819	m4
E28	363424.1181	kp/cm2
Ej	290739.2945	kp/cm2
EDAD DEL HORMIGON AL INTRODUCIR PRETENSADO	7	dias
COEF. ENVEJ.	0.8	

PRETENSADO

Ap	39900	mm2
yp		
MODULO DE ELASTICIDAD	1970000	kp/cm2
nº Tendones	14	
% DE TESADO	75%	
TENSION INICIAL	141.96	kp/mm2
μ	0.18	
K	0.00108	
PENETRACION CUÑA	3	mm
RELAJACION 1000h	2%	
RELAJACION 5000h	2.57%	
RELAJACION 1000000h	5.83%	

X	0	0.3	0.6	0.9	1.2	1.5	2	2.3	2.6	12	16	24	36	40	48
ANGULOS ACUMULADOS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERDIDAS ROZAMIENTO	0.00	0.05	0.09	0.14	0.18	0.23	0.31	0.35	0.40	1.83	2.43	3.63	5.41	6.00	7.17
PERDIDAS PENETRACION	0.43	0.34	0.24	0.15	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PERDIDAS ACORT	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.28	3.27	3.24	3.20	3.19	3.16
PERDIDAS ELASTICAS	3.75	3.70	3.66	3.61	3.57	3.55	3.63	3.67	3.72	5.11	5.70	6.88	8.61	9.19	10.33
% PERDIDAS	2.64%	2.61%	2.58%	2.54%	2.51%	2.50%	2.55%	2.59%	2.62%	3.60%	4.02%	4.84%	6.07%	6.47%	7.28%
PERDIDAS ELASTICAS pret ext	1.92	1.92	1.92	1.92	1.92	1.92	1.94	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.95
% PERDIDAS															
PERDIDAS DIFERIDAS DURANTE LANZAMIENTO	8.21	8.21	8.22	8.22	8.22	8.22	8.22	8.21	8.21	8.14	8.11	8.06	7.97	7.94	7.89
	9.78%	9.75%	9.72%	9.69%	9.65%	9.65%	9.71%	9.75%	9.78%	10.72%	11.11%	11.91%	13.07%	13.45%	14.21%
PERDIDAS DIFERIDAS A TIEMPO INFINITO	18.36	18.36	18.36	18.37	18.37	18.37	18.37	18.36	18.36	18.23	18.17	18.06	17.90	17.85	17.75
	16.92%	16.89%	16.86%	16.84%	16.81%	16.80%	16.86%	16.90%	16.93%	17.82%	18.20%	18.96%	20.07%	20.43%	21.15%
PERDIDAS DIFERIDAS pret ext	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17	2.17
PERDIDAS TOTALES	26.19	26.15	26.11	26.07	26.02	26.01	26.10	26.15	26.19	27.46	28.00	29.08	30.65	31.17	32.19
	18.45%	18.42%	18.39%	18.36%	18.33%	18.32%	18.38%	18.42%	18.45%	19.34%	19.72%	20.48%	21.59%	21.96%	22.68%
PERDIDAS DIFERIDAS ENTRE t=180 Y t=INF DEBIDAS SOLO A FLUENCIA (PERD EN PRET. EXT.)	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.60	2.59	2.56	2.53	2.52	2.50

	dist anclaje	dist anclaje	
	12	36	
perdidas medias de pretensado	19%	22%	20%

CALCULO DE RETRACCION Y FLUENCIA VIADUCTO DE VINAIXA

PRETENSADO EXTERIOR

CALCULO DE DEFORMACION POR RETRACCION Y FLUENCIA

fck	400
Ec28	36342.36496
HR	70%
A	90621.9 cm2
u	5150 cm
e	351.9297087 mm
TIEMPO MEDIO DE PUESTA EN CARGA	
t0	7
TIEMPO DE LANZAMIENTO	
t	180

COEFICIENTE DE RETRACCION

Bs(t-t0)	0.195900
epsilon_s	0.000370
Beta_HR	-1.018350
epsilon_cs0	-0.000377
epsilon_cs	-0.000074

COEFICIENTE DE FLUENCIA

FI_HR	1.429208
Beta_fcm	2.424871
Beta_t0	0.634609
Beta_H	800.780797
Beta_c(t-t0)	0.595491

COEFICIENTE DE FLUENCIA

FI	1.309682

fck	400
Ec28	36342.36496
HR	70%
A	90621.9 cm2
u	5150 cm
e	351.9297087 mm
TIEMPO MEDIO DE PUESTA EN CARGA	
t0	180
TIEMPO INFINITO	
t	10000

COEFICIENTE DE RETRACCION

Bs(t-t0)	0.8351347
epsilon_s	0.000370
Beta_HR	-1.018350
epsilon_cs0	-0.000377
epsilon_cs aux	-0.000315
epsilon_cs	-0.000241

COEFICIENTE DE FLUENCIA

FI_HR	1.4292085
Beta_fcm	2.4248711
Beta_t0	0.3418529
Beta_H	800.7807973
Beta_c(t-t0)	0.9767570

COEFICIENTE DE FLUENCIA

FI	1.1572044

CALCULO DE PERDIDAS PRETENSADO EXTERIOR

TABLERO

HORMIGON	400	kp/cm2
Ac	9.0621	m2
Ic	20.00819	m4
E28	363424.1181	kp/cm2
Ej	363424.1181	kp/cm2
EDAD DEL HORMIGON AL INTRODUCIR PRETENSADO	180	dias
COEF. ENVEJ.	0.8	

PRETENSADO

Ap	22500	mm2
yp		
MODULO DE ELASTICIDAD	1970000	kp/cm2
nº Tendones	6	
% DE TESADO	80%	
TENSION INICIAL	151.43	kp/mm2
μ	0.07	
K	0	
PENETRACION CUÑA	5	mm
RELAJACION 1000h	2%	
RELAJACION 5000h	2.57%	
RELAJACION 1000000h	5.83%	

X	0.00	1.00	2.00	3.00	4.00	5.00	25.00	26.00	27.00	49.00	50.00	51.00	73.00	74.00
ANGULOS PUNTUALES	0.00	0.00	7.29	7.29	0.00	0.00	0.00	7.29	7.29	0.00	7.29	7.29	0.00	7.29
ANGULOS ACUM °SEG	0.00	0.00	7.29	14.58	14.58	14.58	14.58	21.87	29.16	29.16	36.45	43.74	43.74	51.03
ANGULOS ACUM. RADIANES	0.00	0.00	0.13	0.25	0.25	0.25	0.25	0.38	0.51	0.51	0.64	0.76	0.76	0.89
PERDIDAS ROZAMIENTO	0.00	0.00	1.34	2.67	2.67	2.67	2.67	3.99	5.30	5.30	6.60	7.88	7.88	9.15
PERDIDAS PENETRACION	8.76	8.76	6.08	3.41	3.41	3.41	3.41	0.78	0.00	0.00	0.00	0.00	0.00	0.00
PERDIDAS ACORT	1.92	1.92	1.94	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.95	1.93	1.93	1.91
PERDIDAS ELASTICAS	10.68	10.68	9.36	8.04	8.04	8.04	8.04	6.74	7.27	7.27	8.54	9.81	9.81	11.07
% PERDIDAS	7.05%	7.05%	6.18%	5.31%	5.31%	5.31%	5.31%	4.45%	4.80%	4.80%	5.64%	6.48%	6.48%	7.31%
PERDIDAS DIFERIDAS A TIEMPO INFINITO	13.16	13.16	13.24	13.32	13.32	13.32	13.32	13.40	13.37	13.37	13.29	13.21	13.21	13.14
	15.75%	15.75%	14.92%	14.11%	14.11%	14.11%	14.11%	13.30%	13.63%	13.63%	14.42%	15.21%	15.21%	15.98%
PERDIDAS DIFERIDAS pret lanz	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
PERDIDAS TOTALES	26.44	26.44	25.19	23.96	23.96	23.96	23.96	22.74	23.23	23.23	24.43	25.62	25.62	26.80
	17.46%	17.46%	16.64%	15.82%	15.82%	15.82%	15.82%	15.02%	15.34%	15.34%	16.13%	16.92%	16.92%	17.70%
PERDIDAS DIFERIDAS DEBIDAS SOL0 A FLUENCIA (PERD EN PRET. DE LANZ.)	2.14	2.14	2.16	2.18	2.18	2.18	2.18	2.20	2.19	2.19	2.17	2.15	2.15	2.13

		dist anclaje 26	dist anclaje 74	
	vano tipo	4 tendones	2 tendones	media
Perdidas totales pretensado		15%	18%	16%

2.3.1. Estudio durante el lanzamiento

ESTUDIO TENSIONAL DURANTE LANZAMIENTO

Se van a estudiar dos zonas del tablero: primer vano de hormigón que debe soportar los momentos descompensados del lanzamiento del pescante(tiene 9 parejas de cables de pretensado de lanzamiento) y Vano 2 adyacente al primer vano que soporta los esfuerzos del vano de 51m(lleva 7 parejas de cables de pretensado).

1. VANO 1 . ESFUERZOS DURANTE LANZAMIENTO (Con pretensado adicional).

CARACTERISTICAS MECANICAS		
	SECCION VANO	SECCION PILA
A	9.062 m^2	10.217 m^2
Wsup	13.385 m^3	14.040 m^3
Winf	7.987 m^3	10.970 m^3

ESFUERZOS SOLICITANTES , POSICIÓN Y MOMENTO DURANTE EL LANZAMIENTO				
	Mpp+Msc+Mgrad	V concomitante	Posición de sec pésima de tabl.	Dist.de inicio de pesc. a E-2
Máximo flector negativo	-10404.4 t·m	-771.3 t	22.50 m. al inicio	857.85 m.
Máximo flector positivo	5475.9 t·m	33.1 t	18.00 m. al inicio	883.50 m.

ESFUERZOS DE PRETENSADO (perdidas del 15%)		
	Npret	Mpret
18 tendones 19ϕ0,6"	5592.34 t	0 t·m

CONTROL TENSIONAL			
		M^+ max	M^- max
Mpp+Msc+Mgrad	σ_{sup}	1026.38 t/m2	–160.49 t/m2
	σ_{inf}	-68.48 t/m2	1919.79 t/m2

2. VANO 2. ESFUERZOS DURANTE LANZAMIENTO.

CARACTERISTICAS MECANICAS		
	SECCION VANO	SECCION PILA
A	9.062 m^2	10.217 m^2
Wsup	13.385 m^3	14.040 m^3
Winf	7.987 m^3	10.970 m^3

ESFUERZOS SOLICITANTES , POSICIÓN Y MOMENTO DURANTE EL LANZAMIENTO				
	Mpp+Msc+Mgrad	V concomitante	Posición de sec pésima de tabl.	Dist.de inicio de pesc. a E-2
Máximo flector negativo	-7442.90 t·m	-698.93 t	39.00 m. al inicio	925.50 m.
Máximo flector positivo	4528.41 t·m	-89.16 t	87.00 m. al inicio	857.85 m.

ESFUERZOS DE PRETENSADO		
	Npret	Mpret
14 tendones 19ϕ0,6"	4349.00 t	0 t·m

CONTROL TENSIONAL			
		M^+ max	M^- max
Mpp+Msc+Mgrad	σ_{sup}	804.64 t/m2	14.06 t/m2
	σ_{inf}	-63.89 t/m2	1260.51 t/m2

2.3.2. Estudio en servicio

ESTUDIO TENSIONAL EN SERVICIO

El control tensional de la estructura se realiza bajo las siguientes consideraciones:

- Todas las fibras del tablero en compresión bajo la acción de las cargas permanentes.
- Se admiten tracciones inferiores a fct,k con la combinación rara de acciones, ponderando las sobrecargas por su coeficiente de impacto correspondiente y contando con la fuerza de frenado y acciones reológicas sobre el tablero.
- Considerando las acciones de frenado sobre el tablero y las acciones de las pilas sobre el tablero, debido a acciones reológicas y de temperatura, se realiza la comprobación de apertura de fisuras. Esta comprobación es obviamente positiva puesto que el hormigón no supera tracciones superiores a fct,k bajo combinación rara de acciones.

La comprobación del estado tensional se realiza para cada uno de los vanos de la estructura. Así pues se observa la influencia de los vanos extremos , vanos de 51 metros y evolución de los esfuerzos axiles debidos al frenando y variación de pretensado. Los casos más particulares son el vano extremo de 39m de luz con pretensado adicional, vano 2 de 48m junto a vano de 39m, vano tres de 48m de luz junto a vano de 51m , vanos cuatro y cinco de 51m de luz con pretensado adicional, vano seis de 48m junto a vano de 51m, vano 7 de 48m, vano 8 de 48m con fin de pretensado adicional de centro de gravedad y vano final con 39m. Para cada uno de estos vanos se deben realizan varias comprobaciones, en función de la combinación de cargas considerada:

- Cargas permanentes + RF
- Cargas permanentes + Sobrecarga de uso(coef=1) + grad. (coef=0.6) + asiento (0,6)
- Cargas permanentes + Sobrecarga de uso(coef=0.6) + grad. (coef=1) + asiento (0,6)
- Cargas permanentes + Sobrecarga de uso(coef=0.6) + grad. (coef=0.6) + asiento (1)

En los siguientes cálculos solo se adjuntan las dos primeras combinaciones.

La primera combinación con cargas permanentes es indicativa del proceso constructivo y estudia el momento en el cual el tablero ha sido lanzado y el pretensado exterior aún no se ha tesado.

La segunda combinación es la que genera los mayores esfuerzos en el tablero debido a las fuertes solicitaciones que se realizan con el paso de los vehículo ferroviarios.

RESUMEN DE TENSIONES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
A	9.062	10.336
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246
Ws	13.385	14.235
Wi	7.987	11.117

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	0	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDA	0.9	0.9	0.9

									MULTIPLICADOR(Perdidas x Coef.Seg)			AXILES DEL PRETENSADO			ACCIONES LONGITUDINALES			TENSIONES CON ACCIONES LONGITUDINALES				TENSIONES SIN ACCIONES LONGITUDINALES			
		1	0	0	0	0	0		0.00	0.72	0.72	0.00	4093.74	Variable	-1980.55	0.00	0.00	MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS		MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS	
	X	CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)
VANO 1	0.00	-27.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	320.08	315.68	320.08	315.68	511.69	507.30	511.69	507.30
VANO 1	0.98	479.82	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	274.45	351.32	274.45	351.32	466.07	542.93	466.07	542.93
VANO 1	1.95	952.73	0.00	0.00	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	242.96	433.43	242.96	433.43	423.53	576.16	423.53	576.16
VANO 1	2.93	1391.31	0.00	0.00	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	188.05	466.20	188.05	466.20	384.08	606.96	384.08	606.96
VANO 1	3.90	1795.56	0.00	0.00	0.00	0.00	0.00	3.90	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	137.43	496.40	137.43	496.40	347.71	635.36	347.71	635.36
VANO 1	3.90	1795.56	0.00	0.00	0.00	0.00	0.00	3.90	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	137.43	496.40	137.43	496.40	347.71	635.36	347.71	635.36
VANO 1	4.88	2165.48	0.00	0.00	0.00	0.00	0.00	4.88	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	91.12	524.03	91.12	524.03	314.44	661.35	314.44	661.35
VANO 1	5.85	2501.06	0.00	0.00	0.00	0.00	0.00	5.85	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	49.10	549.10	49.10	549.10	284.25	684.92	284.25	684.92
VANO 1	6.83	2802.31	0.00	0.00	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	11.38	571.61	11.38	571.61	257.15	706.08	257.15	706.08
VANO 1	7.80	3069.23	0.00	0.00	0.00	0.00	0.00	7.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-22.04	591.55	-22.04	591.55	233.14	724.84	233.14	724.84
VANO 1	7.80	3069.23	0.00	0.00	0.00	0.00	0.00	7.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-22.04	591.55	-22.04	591.55	233.14	724.84	233.14	724.84
VANO 1	8.78	3301.82	0.00	0.00	0.00	0.00	0.00	8.78	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-51.17	608.93	-51.17	608.93	212.22	741.17	212.22	741.17
VANO 1	9.75	3500.08	0.00	0.00	0.00	0.00	0.00	9.75	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-75.99	623.74	-75.99	623.74	194.39	755.10	194.39	755.10
VANO 1	10.73	3664.00	0.00	0.00	0.00	0.00	0.00	10.73	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-96.51	635.99	-96.51	635.99	179.64	766.62	179.64	766.62
VANO 1	11.70	3793.60	0.00	0.00	0.00	0.00	0.00	11.70	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-112.74	645.67	-112.74	645.67	167.98	775.72	167.98	775.72
VANO 1	11.70	3793.60	0.00	0.00	0.00	0.00	0.00	11.70	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-112.74	645.67	-112.74	645.67	167.98	775.72	167.98	775.72
VANO 1	12.68	3876.62	0.00	0.00	0.00	0.00	0.00	12.68	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-123.14	651.87	-123.14	651.87	160.52	781.55	160.52	781.55
VANO 1	13.65	3925.31	0.00	0.00	0.00	0.00	0.00	13.65	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-129.23	655.51	-129.23	655.51	156.14	784.97	156.14	784.97
VANO 1	14.63	3939.68	0.00	0.00	0.00	0.00	0.00	14.63	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-131.03	656.58	-131.03	656.58	154.84	785.98	154.84	785.98
VANO 1	15.60	3919.71	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-128.53	655.09	-128.53	655.09	156.64	784.58	156.64	784.58
VANO 1	15.60	3919.71	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-128.53	655.09	-128.53	655.09	156.64	784.58	156.64	784.58
VANO 1	16.58	3865.40	0.00	0.00	0.00	0.00	0.00	16.58	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-121.73	651.03	-121.73	651.03	161.52	780.76	161.52	780.76
VANO 1	17.55	3776.77	0.00	0.00	0.00	0.00	0.00	17.55	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-110.63	644.41	-110.63	644.41	169.50	774.54	169.50	774.54
VANO 1	18.53	3653.80	0.00	0.00	0.00	0.00	0.00	18.53	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-95.24	635.22	-95.24	635.22	180.56	765.90	180.56	765.90
VANO 1	19.50	3496.51	0.00	0.00	0.00	0.00	0.00	19.50	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-75.54	623.47	-75.54	623.47	194.71	754.85	194.71	754.85
VANO 1	19.50	3496.51	0.00	0.00	0.00	0.00	0.00	19.50	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-75.54	623.47	-75.54	623.47	194.71	754.85	194.71	754.85
VANO 1	20.48	3304.88	0.00	0.00	0.00	0.00	0.00	20.48	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-51.55	609.16	-51.55	609.16	211.95	741.39	211.95	741.39
VANO 1	21.45	3078.92	0.00	0.00	0.00	0.00	0.00	21.45	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	-23.26	592.28	-23.26	592.28	232.27	725.52	232.27	725.52
VANO 1	22.43	2818.62	0.00	0.00	0.00	0.00	0.00	22.43	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	9.34	572.83	9.34	572.83	255.69	707.23	255.69	707.23
VANO 1	23.40	2524.00	0.00	0.00	0.00	0.00	0.00	23.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	46.23	550.82	46.23	550.82	282.19	686.53	282.19	686.53
VANO 1	23.40	2524.00	0.00	0.00	0.00	0.00	0.00	23.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	46.23	550.82	46.23	550.82	282.19	686.53	282.19	686.53
VANO 1	24.38	2195.04	0.00	0.00	0.00	0.00	0.00	24.38	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	87.41	526.24	87.41	526.24	311.78	663.43	311.78	663.43
VANO 1	25.35	1831.75	0.00	0.00	0.00	0.00	0.00	25.35	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	132.90	499.10	132.90	499.10	344.46	637.90	344.46	637.90
VANO 1	26.33	1434.13	0.00	0.00	0.00	0.00	0.00	26.33	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	182.69	469.40	182.69	469.40	380.22	609.97	380.22	609.97
VANO 1	27.30	1002.18	0.00	0.00	0.00	0.00	0.00	27.30	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	236.77	437.13	236.77	437.13	419.08	579.63	419.08	579.63
VANO 1	27.30	1002.18	0.00	0.00	0.00	0.00	0.00	27.30	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	236.77	437.13	236.77	437.13	419.08	579.63	419.08	579.63
VANO 1	28.28	535.90	0.00	0.00	0.00	0.00	0.00	28.28	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	295.16	402.29	295.16	402.29	461.02	546.87	461.02	546.87
VANO 1	29.25	35.28	0.00	0.00	0.00	0.00	0.00	29.25	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	357.84	364.89	357.84	364.89	506.05	511.71	506.05	511.71
VANO 1	30.23	-499.67	0.00	0.00	0.00	0.00	0.00	30.23	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	424.82	324.93	424.82	324.93	554.17	474.13	554.17	474.13
VANO 1	31.20	-1068.95	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	496.10	282.40	496.10	282.40	605.38	434.14	605.38	434.14
VANO 1	31.20	-1068.95	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	496.10	282.40	496.10	282.40	605.38	434.14	605.38	434.14
VANO 1	32.18	-1672.56	0.00	0.00	0.00	0.00	0.00	32.18	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	571.68	237.30	571.68	237.30	659.68	391.73	659.68	391.73
VANO 1	33.15	-2310.50	0.00	0.00	0.00	0.00	0.00	33.15	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	651.55	189.64	651.55	189.64	717.06	346.92	717.06	346.92
VANO 1	34.13	-2982.77	0.00	0.00	0.00	0.00	0.00	34.13	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	735.73	139.42	735.73	139.42	777.54	299.69	777.54	299.69
VANO 1	35.10	-3689.38	0.00	0.00	0.00	0.00	0.00	35.10	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	824.20	86.63	824.20	86.63	841.10	250.06	841.10	250.06
VANO 1	35.10	-3689.38	0.00	0.00	0.00	0.00	0.00	35.10	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	824.20	86.63	824.20	86.63	841.10	250.06	841.10	250.06
VANO 1	36.08	-4430.32	0.00	0.00	0.00	0.00	0.00	36.08	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	916.98	31.28	916.98	31.28	907.75	198.01	907.75	198.01
VANO 1	37.05	-5205.59	0.00	0.00	0.00	0.00	0.00	37.05	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	1014.05	-26.64	1014.05	-26.64	977.48	143.55	977.48	143.55
VANO 1	38.03	-6015.19	0.00	0.00	0.00	0.00	0.00	38.03	0.00	0.00	0.00	0.00	4093.74	1169.64	-1980.55	0.00	0.00	858.69	-104.94	858.69	-104.94	1050.31	86.67	1050.31	86.67
[redacted]																									
VANO 2	0.00	-6859.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	943.55	-155.28	943.55	-155.28	1126.22	27.39	1126.22	27.39
VANO 2	1.20	-5835.39	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	851.47	-83.37	851.47	-83.37	1034.14	99.30	1034.14	99.30
VANO 2	2.40	-4863.66	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	981.44	9.11	981.44	9.11	946.73	167.57	946.73	167.57
VANO 2	3.60	-3943.94	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	866.28	77.82	866.28	77.82	864.00	232.17	864.00	232.17
VANO 2	4.80	-3076.22	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	757.63	142.64	757.63	142.64	785.94	293.13	785.94	293.13
VANO 2	4.80	-3076.22	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	757.63	142.64	757.63	142.64	785.94	293.13	785.94	293.13
VANO 2	6.00	-2260.51	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	655.50	203.58	655.50	203.58	712.57	350.43	712.57	350.43
VANO 2	7.20	-1496.81	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	559.88	260.64	559.88	260.64	643.87	404.08	643.87	404.08
VANO 2	8.40	-785.11	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	470.76	313.81	470.76	313.81	579.85	454.08	579.85	454.08
VANO 2	9.60	-125.41	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	388.16	363.09	388.16	363.09	520.51	500.42	520.51	500.42
VANO 2	9.60	-125.41	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	388.16	363.09	388.16	363.09	520.51	500.42	520.51	500.42
VANO 2	10.80	482.28	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	312.07	408.49	312.07	408.49	465.85	543.11	465.85	543.11
VANO 2	12.00	1037.96	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1888.08	0.00	0.00	242.50	450.00	242.50	450.00	415.86	582.14	415.86	582.14
VANO 2	13.20	1541.64	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	50.36	358.56	50.36	358.56	257.39	504.36	257.39	504.36
VANO 2	14.40	1993.31	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-6.19	392.31	-6.19	392.31	216.76	536.09	216.76	536.09
VANO 2	14.40	1993.31	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-6.19	392.31	-6.19	392.31	216.76	536.09	216.76	536.09
VANO 2	15.60	2377.92	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-54.35	421.04	-54.35	421.04	182.17	563.11	182.17	563.11
VANO 2	16.80	2710.52	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-95.99	445.89	-95.99	445.89	152.25	586.47	152.25	586.47
VANO 2	18.00	2991.11	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-131.13	466.85	-131.13	466.85	127.01	606.19	127.01	606.19
VANO 2	19.20	3219.70	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-159.75	483.93	-159.75	483.93	106.45	622.24	106.45	622.24
VANO 2	19.20	3219.70	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-159.75	483.93	-159.75	483.93	106.45	622.24	106.45	622.24
VANO 2	20.40	3396.29	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-181.86	497.12	-181.86	497.12	90.56	634.65	90.56	634.65
VANO 2	21.60	3520.87	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-197.46	506.43	-197.46	506.43	79.36	643.40	79.36	643.40
VANO 2	22.80	3593.44	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-206.54	511.85	-206.54	511.85	72.83	648.50	72.83	648.50
VANO 2	24.00	3614.01	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-209.12	513.39	-209.12	513.39	70.98	649.94	70.98	649.94
VANO 2	24.00	3614.01	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-209.12	513.39	-209.12	513.39	70.98	649.94	70.98	649.94
VANO 2	25.20	3582.57	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-205.18	511.04	-205.18	511.04	73.80	647.73	73.80	647.73
VANO 2	26.40	3499.13	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-194.73	504.80	-194.73	504.80	81.31	641.87	81.31	641.87
VANO 2	27.60	3363.68	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-177.78	494.68	-177.78	494.68	93.49	632.36	93.49	632.36
VANO 2	28.80	3176.22	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-154.30	480.68	-154.30	480.68	110.36	619.19	110.36	619.19
VANO 2	28.80	3176.22	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-154.30	480.68	-154.30	480.68	110.36	619.19	110.36	619.19
VANO 2	30.00	2936.76	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-124.32	462.79	-124.32	462.79	131.90	602.37	131.90	602.37
VANO 2	31.20	2645.29	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-87.83	441.02	-87.83	441.02	158.12	581.89	158.12	581.89
VANO 2	32.40	2301.82	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	-44.82	415.36	-44.82	415.36	189.01	557.76	189.01	557.76
VANO 2	33.60	1906.34	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	4.70	385.81	4.70	385.81	224.59	529.98	224.59	529.98
VANO 2	33.60	1906.34	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	4.70	385.81	4.70	385.81	224.59	529.98	224.59	529.98
VANO 2	34.80	1458.86	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	60.73	352.38	60.73	352.38	264.84	498.55	264.84	498.55
VANO 2	36.00	959.37	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	123.27	315.06	123.27	315.06	309.77	463.46	309.77	463.46
VANO 2	37.20	407.88	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	192.32	273.86	192.32	273.86	359.38	424.72	359.38	424.72
VANO 2	38.40	-195.62	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	267.89	228.78	267.89	228.78	413.66	382.32	413.66	382.32
VANO 2	38.40	-195.62	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	267.89	228.78	267.89	228.78	413.66	382.32	413.66	382.32
VANO 2	39.60	-851.13	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	349.96	179.81	349.96	179.81	472.63	336.28	472.63	336.28
VANO 2	40.80	-1558.64	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	438.55	126.95	438.55	126.95	536.27	286.58	536.27	286.58
VANO 2	42.00	-2318.15	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	533.65	70.21	533.65	70.21	604.59	233.22	604.59	233.22
VANO 2	43.20	-3129.68	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	635.26	9.58	635.26	9.58	677.59	176.21	677.59	176.21
VANO 2	43.20	-3129.68	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	635.26	9.58	635.26	9.58	677.59	176.21	677.59	176.21
VANO 2	44.40	-3993.20	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	743.38	-54.93	743.38	-54.93	755.27	115.55	755.27	115.55
VANO 2	45.60	-4908.74	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	858.02	-123.33	858.02	-123.33	837.62	51.24	837.62	51.24
VANO 2	46.80	-5876.27	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74		-1888.08	0.00	0.00	741.98	-199.40	741.98	-199.40	924.65	-16.73	924.65	-16.73
[redacted]																									

	X	VANO 3 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 3	0.00	-6895.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	842.60	-262.12	842.60	-262.12	1016.36	-88.35	1016.36	-88.35
VANO 3	1.20	-5885.78	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	751.74	-191.17	751.74	-191.17	925.51	-17.40	925.51	-17.40
VANO 3	2.40	-4927.74	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	870.55	-114.60	870.55	-114.60	839.33	49.90	839.33	49.90
VANO 3	3.60	-4021.71	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	757.11	-46.91	757.11	-46.91	757.83	113.55	757.83	113.55
VANO 3	4.80	-3167.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	650.17	16.89	650.17	16.89	681.01	173.54	681.01	173.54
VANO 3	4.80	-3167.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	650.17	16.89	650.17	16.89	681.01	173.54	681.01	173.54
VANO 3	6.00	-2365.67	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	549.75	76.81	549.75	76.81	608.86	229.88	608.86	229.88
VANO 3	7.20	-1615.66	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	455.84	132.84	455.84	132.84	541.40	282.57	541.40	282.57
VANO 3	8.40	-917.65	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	368.44	184.99	368.44	184.99	478.61	331.60	478.61	331.60
VANO 3	9.60	-271.65	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	287.56	233.25	287.56	233.25	420.50	376.98	420.50	376.98
VANO 3	9.60	-271.65	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	287.56	233.25	287.56	233.25	420.50	376.98	420.50	376.98
VANO 3	10.80	322.35	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	213.18	277.63	213.18	277.63	367.07	418.71	367.07	418.71
VANO 3	12.00	864.34	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	145.32	318.12	145.32	318.12	318.32	456.78	318.32	456.78
VANO 3	13.20	1354.32	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	83.97	354.72	83.97	354.72	274.24	491.20	274.24	491.20
VANO 3	14.40	1792.30	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	29.13	387.45	29.13	387.45	234.84	521.97	234.84	521.97
VANO 3	14.40	1792.30	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	29.13	387.45	29.13	387.45	234.84	521.97	234.84	521.97
VANO 3	15.60	2163.22	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-17.31	415.16	-17.31	415.16	201.48	548.03	201.48	548.03
VANO 3	16.80	2482.13	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-57.24	438.98	-57.24	438.98	172.79	570.43	172.79	570.43
VANO 3	18.00	2749.03	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-90.66	458.92	-90.66	458.92	148.78	589.18	148.78	589.18
VANO 3	19.20	2963.93	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-117.57	474.97	-117.57	474.97	129.45	604.28	129.45	604.28
VANO 3	19.20	2963.93	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-117.57	474.97	-117.57	474.97	129.45	604.28	129.45	604.28
VANO 3	20.40	3126.82	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-137.96	487.14	-137.96	487.14	114.80	615.72	114.80	615.72
VANO 3	21.60	3237.70	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-151.85	495.43	-151.85	495.43	104.83	623.51	104.83	623.51
VANO 3	22.80	3296.58	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-159.22	499.83	-159.22	499.83	99.53	627.64	99.53	627.64
VANO 3	24.00	3303.46	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-160.08	500.34	-160.08	500.34	98.91	628.13	98.91	628.13
VANO 3	24.00	3303.46	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-160.08	500.34	-160.08	500.34	98.91	628.13	98.91	628.13
VANO 3	25.20	3258.33	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-154.43	496.97	-154.43	496.97	102.97	624.96	102.97	624.96
VANO 3	26.40	3161.19	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-142.27	489.71	-142.27	489.71	111.71	618.13	111.71	618.13
VANO 3	27.60	3012.05	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-123.59	478.57	-123.59	478.57	125.12	607.66	125.12	607.66
VANO 3	28.80	2810.90	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-98.41	463.54	-98.41	463.54	143.22	593.53	143.22	593.53
VANO 3	28.80	2810.90	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-98.41	463.54	-98.41	463.54	143.22	593.53	143.22	593.53
VANO 3	30.00	2557.75	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-66.71	444.63	-66.71	444.63	165.99	575.74	165.99	575.74
VANO 3	31.20	2252.59	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	-28.50	421.83	-28.50	421.83	193.44	554.31	193.44	554.31
VANO 3	32.40	1895.42	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	16.22	395.15	16.22	395.15	225.57	529.22	225.57	529.22
VANO 3	33.60	1486.25	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	67.45	364.58	67.45	364.58	262.37	500.47	262.37	500.47
VANO 3	33.60	1486.25	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	67.45	364.58	67.45	364.58	262.37	500.47	262.37	500.47
VANO 3	34.80	1025.08	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74		-1796.06	0.00	0.00	125.20	330.13	125.20	330.13	303.86	468.08	303.86	468.08
VANO 3	36.00	511.90	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	318.52	420.86	318.52	420.86	463.18	545.19	463.18	545.19
VANO 3	37.20	-53.29	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	389.29	378.63	389.29	378.63	514.02	505.48	514.02	505.48
VANO 3	38.40	-670.48	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	466.57	332.52	466.57	332.52	569.54	462.13	569.54	462.13
VANO 3	38.40	-670.48	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	466.57	332.52	466.57	332.52	569.54	462.13	569.54	462.13
VANO 3	39.60	-1339.68	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	550.36	282.53	550.36	282.53	629.74	415.12	629.74	415.12
VANO 3	40.80	-2060.89	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	640.66	228.65	640.66	228.65	694.61	364.45	694.61	364.45
VANO 3	42.00	-2834.09	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	737.47	170.88	737.47	170.88	764.16	310.14	764.16	310.14
VANO 3	43.20	-3659.31	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	840.80	109.23	840.80	109.23	838.39	252.17	838.39	252.17
VANO 3	43.20	-3659.31	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	840.80	109.23	840.80	109.23	838.39	252.17	838.39	252.17
VANO 3	44.40	-4536.53	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	950.63	43.70	950.63	43.70	917.30	190.55	917.30	190.55
VANO 3	45.60	-5465.76	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	1066.98	-25.72	1066.98	-25.72	1000.89	125.27	1000.89	125.27
VANO 3	46.80	-6446.99	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	915.38	-117.43	915.38	-117.43	1089.15	56.34	1089.15	56.34
VANO 3	48.00	-7480.23	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1796.06	0.00	0.00	1009.33	-190.01	1009.33	-190.01	1182.09	-16.24	1182.09	-16.24

	X	VANO 4 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 4	0.00	-7480.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	1017.48	-180.85	1017.48	-180.85	1182.09	-16.24	1182.09	-16.24
VANO 4	1.28	-6339.29	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	914.85	-100.70	914.85	-100.70	1079.46	63.91	1079.46	63.91
VANO 4	2.55	-5257.06	0.00	0.00	0.00	0.00	0.00	2.55	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	1051.30	0.31	1051.30	0.31	982.11	139.93	982.11	139.93
VANO 4	3.83	-4233.53	0.00	0.00	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	923.14	76.78	923.14	76.78	890.05	211.83	890.05	211.83
VANO 4	5.10	-3268.72	0.00	0.00	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	802.34	148.86	802.34	148.86	803.26	279.61	803.26	279.61
VANO 4	5.10	-3268.72	0.00	0.00	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	802.34	148.86	802.34	148.86	803.26	279.61	803.26	279.61
VANO 4	6.38	-2362.62	0.00	0.00	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	688.88	216.55	688.88	216.55	721.75	343.26	721.75	343.26
VANO 4	7.65	-1515.23	0.00	0.00	0.00	0.00	0.00	7.65	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	582.78	279.86	582.78	279.86	645.53	402.79	645.53	402.79
VANO 4	8.93	-726.54	0.00	0.00	0.00	0.00	0.00	8.93	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	484.03	338.78	484.03	338.78	574.58	458.19	574.58	458.19
VANO 4	10.20	3.43	0.00	0.00	0.00	0.00	0.00	10.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	392.63	393.31	392.63	393.31	508.92	509.47	508.92	509.47
VANO 4	10.20	3.43	0.00	0.00	0.00	0.00	0.00	10.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	392.63	393.31	392.63	393.31	508.92	509.47	508.92	509.47
VANO 4	11.48	674.69	0.00	0.00	0.00	0.00	0.00	11.48	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	308.58	443.46	308.58	443.46	448.54	556.62	448.54	556.62
VANO 4	12.75	1287.25	0.00	0.00	0.00	0.00	0.00	12.75	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	231.88	489.23	231.88	489.23	393.44	599.65	393.44	599.65
VANO 4	14.03	1841.09	0.00	0.00	0.00	0.00	0.00	14.03	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	162.53	530.60	162.53	530.60	343.62	638.56	343.62	638.56
VANO 4	15.30	2336.23	0.00	0.00	0.00	0.00	0.00	15.30	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	100.54	567.59	100.54	567.59	299.08	673.34	299.08	673.34
VANO 4	15.30	2336.23	0.00	0.00	0.00	0.00	0.00	15.30	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	100.54	567.59	100.54	567.59	299.08	673.34	299.08	673.34
VANO 4	16.58	2756.66	0.00	0.00	0.00	0.00	0.00	16.58	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	47.90	599.00	47.90	599.00	261.26	702.88	261.26	702.88
VANO 4	17.85	3118.37	0.00	0.00	0.00	0.00	0.00	17.85	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	2.61	626.03	2.61	626.03	228.72	728.29	228.72	728.29
VANO 4	19.13	3421.38	0.00	0.00	0.00	0.00	0.00	19.13	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-35.33	648.66	-35.33	648.66	201.47	749.57	201.47	749.57
VANO 4	20.40	3665.68	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-65.92	666.91	-65.92	666.91	179.49	766.73	179.49	766.73
VANO 4	20.40	3665.68	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-65.92	666.91	-65.92	666.91	179.49	766.73	179.49	766.73
VANO 4	21.68	3851.26	0.00	0.00	0.00	0.00	0.00	21.68	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-89.16	680.78	-89.16	680.78	162.80	779.77	162.80	779.77
VANO 4	22.95	3978.14	0.00	0.00	0.00	0.00	0.00	22.95	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-105.05	690.26	-105.05	690.26	151.38	788.68	151.38	788.68
VANO 4	24.23	4046.31	0.00	0.00	0.00	0.00	0.00	24.23	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-113.58	695.35	-113.58	695.35	145.25	793.47	145.25	793.47
VANO 4	25.50	4055.77	0.00	0.00	0.00	0.00	0.00	25.50	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-114.77	696.06	-114.77	696.06	144.40	794.14	144.40	794.14
VANO 4	25.50	4055.77	0.00	0.00	0.00	0.00	0.00	25.50	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-114.77	696.06	-114.77	696.06	144.40	794.14	144.40	794.14
VANO 4	26.78	4006.52	0.00	0.00	0.00	0.00	0.00	26.78	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-108.60	692.38	-108.60	692.38	148.83	790.68	148.83	790.68
VANO 4	28.05	3898.56	0.00	0.00	0.00	0.00	0.00	28.05	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-95.08	684.31	-95.08	684.31	158.54	783.09	158.54	783.09
VANO 4	29.33	3731.89	0.00	0.00	0.00	0.00	0.00	29.33	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-74.21	671.86	-74.21	671.86	173.53	771.39	173.53	771.39
VANO 4	30.60	3506.51	0.00	0.00	0.00	0.00	0.00	30.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-45.99	655.02	-45.99	655.02	193.81	755.55	193.81	755.55
VANO 4	30.60	3506.51	0.00	0.00	0.00	0.00	0.00	30.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-45.99	655.02	-45.99	655.02	193.81	755.55	193.81	755.55
VANO 4	31.88	3222.42	0.00	0.00	0.00	0.00	0.00	31.88	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	-10.42	633.80	-10.42	633.80	219.36	735.60	219.36	735.60
VANO 4	33.15	2879.63	0.00	0.00	0.00	0.00	0.00	33.15	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	32.50	608.19	32.50	608.19	250.20	711.52	250.20	711.52
VANO 4	34.43	2478.12	0.00	0.00	0.00	0.00	0.00	34.43	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	82.77	578.19	82.77	578.19	286.31	683.31	286.31	683.31
VANO 4	35.70	2017.90	0.00	0.00	0.00	0.00	0.00	35.70	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	140.40	543.81	140.40	543.81	327.71	650.98	327.71	650.98
VANO 4	35.70	2017.90	0.00	0.00	0.00	0.00	0.00	35.70	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	140.40	543.81	140.40	543.81	327.71	650.98	327.71	650.98
VANO 4	36.98	1498.98	0.00	0.00	0.00	0.00	0.00	36.98	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	205.37	505.04	205.37	505.04	374.39	614.53	374.39	614.53
VANO 4	38.25	921.34	0.00	0.00	0.00	0.00	0.00	38.25	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	277.70	461.89	277.70	461.89	426.35	573.95	426.35	573.95
VANO 4	39.53	285.00	0.00	0.00	0.00	0.00	0.00	39.53	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	357.37	414.35	357.37	414.35	483.59	529.25	483.59	529.25
VANO 4	40.80	-410.06	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	444.40	362.42	444.40	362.42	546.11	480.42	546.11	480.42
VANO 4	40.80	-410.06	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	444.40	362.42	444.40	362.42	546.11	480.42	546.11	480.42
VANO 4	42.08	-1163.82	0.00	0.00	0.00	0.00	0.00	42.08	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	538.78	306.11	538.78	306.11	613.92	427.47	613.92	427.47
VANO 4	43.35	-1976.29	0.00	0.00	0.00	0.00	0.00	43.35	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	640.51	245.41	640.51	245.41	687.00	370.40	687.00	370.40
VANO 4	44.63	-2847.47	0.00	0.00	0.00	0.00	0.00	44.63	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	749.59	180.33	749.59	180.33	765.37	309.20	765.37	309.20
VANO 4	45.90	-3777.37	0.00	0.00	0.00	0.00	0.00	45.90	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	866.02	110.86	866.02	110.86	849.01	243.88	849.01	243.88
VANO 4	45.90	-3777.37	0.00	0.00	0.00	0.00	0.00	45.90	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	866.02	110.86	866.02	110.86	849.01	243.88	849.01	243.88
VANO 4	47.18	-4765.97	0.00	0.00	0.00	0.00	0.00	47.18	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	989.81	37.00	989.81	37.00	937.94	174.43	937.94	174.43
VANO 4	48.45	-5813.28	0.00	0.00	0.00	0.00	0.00	48.45	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	1120.94	-41.24	1120.94	-41.24	1032.15	100.86	1032.15	100.86
VANO 4	49.73	-6919.30	0.00	0.00	0.00	0.00	0.00	49.73	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	967.03	-141.45	967.03	-141.45	1131.64	23.16	1131.64	23.16
VANO 5	51.00	-8084.03	0.00	0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1701.41	0.00	0.00	1071.80	-223.27	1071.80	-223.27	1236.41	-58.66	1236.41	-58.66

	X	VANO 5 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 5	0.00	-8084.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	1081.38	-213.69	1081.38	-213.69	1236.41	-58.66	1236.41	-58.66
VANO 5	1.28	-6912.67	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	976.01	-131.41	976.01	-131.41	1131.04	23.63	1131.04	23.63
VANO 5	2.55	-5800.02	0.00	0.00	0.00	0.00	0.00	2.55	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	1130.21	-29.32	1130.21	-29.32	1030.96	101.79	1030.96	101.79
VANO 5	3.83	-4746.09	0.00	0.00	0.00	0.00	0.00	3.83	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	998.24	49.41	998.24	49.41	936.15	175.83	936.15	175.83
VANO 5	5.10	-3750.86	0.00	0.00	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	873.63	123.76	873.63	123.76	846.63	245.74	846.63	245.74
VANO 5	5.10	-3750.86	0.00	0.00	0.00	0.00	0.00	5.10	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	873.63	123.76	873.63	123.76	846.63	245.74	846.63	245.74
VANO 5	6.38	-2814.34	0.00	0.00	0.00	0.00	0.00	6.38	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	756.37	193.73	756.37	193.73	762.38	311.53	762.38	311.53
VANO 5	7.65	-1936.53	0.00	0.00	0.00	0.00	0.00	7.65	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	646.46	259.31	646.46	259.31	683.42	373.19	683.42	373.19
VANO 5	8.93	-1117.43	0.00	0.00	0.00	0.00	0.00	8.93	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	543.90	320.50	543.90	320.50	609.74	430.73	609.74	430.73
VANO 5	10.20	-357.03	0.00	0.00	0.00	0.00	0.00	10.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	448.69	377.31	448.69	377.31	541.34	484.15	541.34	484.15
VANO 5	10.20	-357.03	0.00	0.00	0.00	0.00	0.00	10.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	448.69	377.31	448.69	377.31	541.34	484.15	541.34	484.15
VANO 5	11.48	344.65	0.00	0.00	0.00	0.00	0.00	11.48	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	360.83	429.73	360.83	429.73	478.23	533.44	478.23	533.44
VANO 5	12.75	987.62	0.00	0.00	0.00	0.00	0.00	12.75	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	280.32	477.77	280.32	477.77	420.39	578.61	420.39	578.61
VANO 5	14.03	1571.88	0.00	0.00	0.00	0.00	0.00	14.03	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	207.17	521.41	207.17	521.41	367.83	619.65	367.83	619.65
VANO 5	15.30	2097.44	0.00	0.00	0.00	0.00	0.00	15.30	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	141.36	560.68	141.36	560.68	320.56	656.57	320.56	656.57
VANO 5	15.30	2097.44	0.00	0.00	0.00	0.00	0.00	15.30	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	141.36	560.68	141.36	560.68	320.56	656.57	320.56	656.57
VANO 5	16.58	2548.28	0.00	0.00	0.00	0.00	0.00	16.58	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	84.91	594.36	84.91	594.36	280.00	688.24	280.00	688.24
VANO 5	17.85	2940.41	0.00	0.00	0.00	0.00	0.00	17.85	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	35.81	623.65	35.81	623.65	244.73	715.79	244.73	715.79
VANO 5	19.13	3273.84	0.00	0.00	0.00	0.00	0.00	19.13	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-5.93	648.56	-5.93	648.56	214.74	739.21	214.74	739.21
VANO 5	20.40	3548.55	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-40.33	669.09	-40.33	669.09	190.03	758.51	190.03	758.51
VANO 5	20.40	3548.55	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-40.33	669.09	-40.33	669.09	190.03	758.51	190.03	758.51
VANO 5	21.68	3764.56	0.00	0.00	0.00	0.00	0.00	21.68	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-67.38	685.23	-67.38	685.23	170.60	773.68	170.60	773.68
VANO 5	22.95	3921.85	0.00	0.00	0.00	0.00	0.00	22.95	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-87.07	696.98	-87.07	696.98	156.45	784.73	156.45	784.73
VANO 5	24.23	4020.44	0.00	0.00	0.00	0.00	0.00	24.23	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-99.42	704.34	-99.42	704.34	147.58	791.66	147.58	791.66
VANO 5	25.50	4060.31	0.00	0.00	0.00	0.00	0.00	25.50	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-104.41	707.32	-104.41	707.32	143.99	794.46	143.99	794.46
VANO 5	25.50	4060.31	0.00	0.00	0.00	0.00	0.00	25.50	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-104.41	707.32	-104.41	707.32	143.99	794.46	143.99	794.46
VANO 5	26.78	4041.48	0.00	0.00	0.00	0.00	0.00	26.78	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-102.05	705.91	-102.05	705.91	145.69	793.13	145.69	793.13
VANO 5	28.05	3963.94	0.00	0.00	0.00	0.00	0.00	28.05	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-92.34	700.12	-92.34	700.12	152.66	787.69	152.66	787.69
VANO 5	29.33	3827.69	0.00	0.00	0.00	0.00	0.00	29.33	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-75.28	689.94	-75.28	689.94	164.92	778.12	164.92	778.12
VANO 5	30.60	3632.73	0.00	0.00	0.00	0.00	0.00	30.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-50.87	675.38	-50.87	675.38	182.45	764.42	182.45	764.42
VANO 5	30.60	3632.73	0.00	0.00	0.00	0.00	0.00	30.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-50.87	675.38	-50.87	675.38	182.45	764.42	182.45	764.42
VANO 5	31.88	3379.06	0.00	0.00	0.00	0.00	0.00	31.88	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	-19.11	656.43	-19.11	656.43	205.27	746.60	205.27	746.60
VANO 5	33.15	3066.68	0.00	0.00	0.00	0.00	0.00	33.15	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	20.00	633.09	20.00	633.09	233.37	724.66	233.37	724.66
VANO 5	34.43	2695.59	0.00	0.00	0.00	0.00	0.00	34.43	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	66.47	605.36	66.47	605.36	266.75	698.59	266.75	698.59
VANO 5	35.70	2265.79	0.00	0.00	0.00	0.00	0.00	35.70	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	120.28	573.26	120.28	573.26	305.41	668.39	305.41	668.39
VANO 5	35.70	2265.79	0.00	0.00	0.00	0.00	0.00	35.70	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	120.28	573.26	120.28	573.26	305.41	668.39	305.41	668.39
VANO 5	36.98	1777.28	0.00	0.00	0.00	0.00	0.00	36.98	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	181.45	536.76	181.45	536.76	349.36	634.08	349.36	634.08
VANO 5	38.25	1230.06	0.00	0.00	0.00	0.00	0.00	38.25	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	249.97	495.88	249.97	495.88	398.58	595.64	398.58	595.64
VANO 5	39.53	624.13	0.00	0.00	0.00	0.00	0.00	39.53	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	325.84	450.61	325.84	450.61	453.09	553.07	453.09	553.07
VANO 5	40.80	-40.50	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	409.05	400.96	409.05	400.96	512.87	506.38	512.87	506.38
VANO 5	40.80	-40.50	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	409.05	400.96	409.05	400.96	512.87	506.38	512.87	506.38
VANO 5	42.08	-763.85	0.00	0.00	0.00	0.00	0.00	42.08	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	499.62	346.92	499.62	346.92	577.94	455.57	577.94	455.57
VANO 5	43.35	-1545.91	0.00	0.00	0.00	0.00	0.00	43.35	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	597.55	288.49	597.55	288.49	648.29	400.63	648.29	400.63
VANO 5	44.63	-2386.67	0.00	0.00	0.00	0.00	0.00	44.63	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	702.82	225.68	702.82	225.68	723.92	341.57	723.92	341.57
VANO 5	45.90	-3286.14	0.00	0.00	0.00	0.00	0.00	45.90	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	815.44	158.48	815.44	158.48	804.83	278.38	804.83	278.38
VANO 5	45.90	-3286.14	0.00	0.00	0.00	0.00	0.00	45.90	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	815.44	158.48	815.44	158.48	804.83	278.38	804.83	278.38
VANO 5	47.18	-4244.33	0.00	0.00	0.00	0.00	0.00	47.18	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	935.42	86.90	935.42	86.90	891.02	211.07	891.02	211.07
VANO 5	48.45	-5261.22	0.00	0.00	0.00	0.00	0.00	48.45	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	1062.74	10.93	1062.74	10.93	982.49	139.64	982.49	139.64
VANO 5	49.73	-6336.83	0.00	0.00	0.00	0.00	0.00	49.73	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	924.21	-90.95	924.21	-90.95	1079.24	64.08	1079.24	64.08
VANO 5	51.00	-7471.14	0.00	0.00	0.00	0.00	0.00	51.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1602.41	0.00	0.00	1026.24	-170.84	1026.24	-170.84	1181.28	-15.60	1181.28	-15.60

	X	VANO 6 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 6	0.00	-7471.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	1035.41	-161.47	1035.41	-161.47	1181.28	-15.60	1181.28	-15.60
VANO 6	1.20	-6431.64	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	941.90	-88.45	941.90	-88.45	1087.77	57.42	1087.77	57.42
VANO 6	2.40	-5444.14	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	1096.10	7.71	1096.10	7.71	998.94	126.79	998.94	126.79
VANO 6	3.60	-4508.66	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	978.96	77.60	978.96	77.60	914.79	192.50	914.79	192.50
VANO 6	4.80	-3625.18	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	868.34	143.60	868.34	143.60	835.32	254.57	835.32	254.57
VANO 6	4.80	-3625.18	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	868.34	143.60	868.34	143.60	835.32	254.57	835.32	254.57
VANO 6	6.00	-2793.70	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	764.23	205.72	764.23	205.72	760.53	312.98	760.53	312.98
VANO 6	7.20	-2014.23	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	666.63	263.95	666.63	263.95	690.41	367.73	690.41	367.73
VANO 6	8.40	-1286.76	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	575.55	318.30	575.55	318.30	624.98	418.84	624.98	418.84
VANO 6	9.60	-611.30	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	490.97	368.76	490.97	368.76	564.22	466.29	564.22	466.29
VANO 6	9.60	-611.30	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	490.97	368.76	490.97	368.76	564.22	466.29	564.22	466.29
VANO 6	10.80	12.15	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	412.91	415.34	412.91	415.34	508.13	510.08	508.13	510.08
VANO 6	12.00	583.60	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	1169.64	-1507.71	0.00	0.00	341.36	458.03	341.36	458.03	456.73	550.22	456.73	550.22
VANO 6	13.20	1103.04	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	147.25	367.77	147.25	367.77	296.84	473.55	296.84	473.55
VANO 6	14.40	1570.48	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	88.72	402.69	88.72	402.69	254.80	506.39	254.80	506.39
VANO 6	14.40	1570.48	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	88.72	402.69	88.72	402.69	254.80	506.39	254.80	506.39
VANO 6	15.60	1970.85	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	38.59	432.60	38.59	432.60	218.78	534.51	218.78	534.51
VANO 6	16.80	2319.22	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-5.03	458.63	-5.03	458.63	187.45	558.99	187.45	558.99
VANO 6	18.00	2615.58	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-42.13	480.77	-42.13	480.77	160.79	579.81	160.79	579.81
VANO 6	19.20	2859.94	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-72.73	499.02	-72.73	499.02	138.81	596.97	138.81	596.97
VANO 6	19.20	2859.94	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-72.73	499.02	-72.73	499.02	138.81	596.97	138.81	596.97
VANO 6	20.40	3052.29	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-96.81	513.39	-96.81	513.39	121.51	610.48	121.51	610.48
VANO 6	21.60	3192.63	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-114.39	523.88	-114.39	523.88	108.88	620.34	108.88	620.34
VANO 6	22.80	3280.97	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-125.45	530.48	-125.45	530.48	100.93	626.55	100.93	626.55
VANO 6	24.00	3317.30	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-130.00	533.19	-130.00	533.19	97.67	629.10	97.67	629.10
VANO 6	24.00	3317.30	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-130.00	533.19	-130.00	533.19	97.67	629.10	97.67	629.10
VANO 6	25.20	3301.63	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-128.03	532.02	-128.03	532.02	99.08	628.00	99.08	628.00
VANO 6	26.40	3233.95	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-119.56	526.97	-119.56	526.97	105.16	623.24	105.16	623.24
VANO 6	27.60	3114.27	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-104.57	518.03	-104.57	518.03	115.93	614.84	115.93	614.84
VANO 6	28.80	2942.58	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-83.08	505.20	-83.08	505.20	131.37	602.78	131.37	602.78
VANO 6	28.80	2942.58	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-83.08	505.20	-83.08	505.20	131.37	602.78	131.37	602.78
VANO 6	30.00	2718.88	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-55.07	488.49	-55.07	488.49	151.50	587.06	151.50	587.06
VANO 6	31.20	2443.18	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	-20.55	467.89	-20.55	467.89	176.30	567.69	176.30	567.69
VANO 6	32.40	2115.47	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	20.49	443.41	20.49	443.41	205.77	544.67	205.77	544.67
VANO 6	33.60	1735.76	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	68.03	415.04	68.03	415.04	239.93	518.00	239.93	518.00
VANO 6	33.60	1735.76	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	68.03	415.04	68.03	415.04	239.93	518.00	239.93	518.00
VANO 6	34.80	1304.04	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	122.09	382.79	122.09	382.79	278.76	487.67	278.76	487.67
VANO 6	36.00	820.32	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	182.65	346.65	182.65	346.65	322.28	453.69	322.28	453.69
VANO 6	37.20	284.59	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	249.73	306.63	249.73	306.63	370.47	416.06	370.47	416.06
VANO 6	38.40	-303.14	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	323.32	262.72	323.32	262.72	423.33	374.77	423.33	374.77
VANO 6	38.40	-303.14	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	323.32	262.72	323.32	262.72	423.33	374.77	423.33	374.77
VANO 6	39.60	-942.88	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	403.42	214.92	403.42	214.92	480.88	329.83	480.88	329.83
VANO 6	40.80	-1634.63	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	490.04	163.25	490.04	163.25	543.11	281.24	543.11	281.24
VANO 6	42.00	-2378.38	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	583.16	107.68	583.16	107.68	610.01	228.99	610.01	228.99
VANO 6	43.20	-3174.14	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	682.80	48.23	682.80	48.23	681.59	173.09	681.59	173.09
VANO 6	43.20	-3174.14	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	682.80	48.23	682.80	48.23	681.59	173.09	681.59	173.09
VANO 6	44.40	-4021.90	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	788.95	-15.10	788.95	-15.10	757.85	113.54	757.85	113.54
VANO 6	45.60	-4921.67	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	901.61	-82.32	901.61	-82.32	838.78	50.33	838.78	50.33
VANO 6	46.80	-5873.44	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	778.53	-162.40	778.53	-162.40	924.40	-16.53	924.40	-16.53
VANO 6	48.00	-6877.22	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74		-1507.71	0.00	0.00	868.82	-232.91	868.82	-232.91	1014.69	-87.04	1014.69	-87.04

		VANO 7	POSITIVOS	NEGATIVOS					MOMENTO	MOMENTO	MOMENTO													
		CARGAS	ENVOLVENTE	ENVOLVENTE	POSITIV	NEGATIV			PRETENSADO	RETENSADO	RETENSADO	AXIL	AXIL		AXIL	AXIL	AXIL	MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS		MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS	
		PERMANENTES	OBRECARGAS	OBRECARGAS	ASIENTO 1.25 cm	ASIENTO 1.25 cm	GRADIENTE	X	EXTERIOR	CENTRADO	ADICIONAL	EXTERIOR	CENTRADO		RETR+FLU	INTER-VIA	FRENADO	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)
VANO 7	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	884.55	-229.40	884.55	-229.40	1021.55	-92.40	1021.55	-92.40
VANO 7	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	792.53	-157.54	792.53	-157.54	929.53	-20.54	929.53	-20.54
VANO 7	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	916.47	-75.03	916.47	-75.03	842.19	47.67	842.19	47.67
VANO 7	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	801.41	-6.38	801.41	-6.38	759.53	112.22	759.53	112.22
VANO 7	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	692.86	58.38	692.86	58.38	681.55	173.12	681.55	173.12
VANO 7	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	692.86	58.38	692.86	58.38	681.55	173.12	681.55	173.12
VANO 7	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	590.83	119.27	590.83	119.27	608.24	230.37	608.24	230.37
VANO 7	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	495.30	176.26	495.30	176.26	539.62	283.96	539.62	283.96
VANO 7	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	406.29	229.37	406.29	229.37	475.67	333.90	475.67	333.90
VANO 7	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	323.79	278.60	323.79	278.60	416.40	380.19	416.40	380.19
VANO 7	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	323.79	278.60	323.79	278.60	416.40	380.19	416.40	380.19
VANO 7	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	247.80	323.94	247.80	323.94	361.81	422.82	361.81	422.82
VANO 7	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	178.32	365.39	178.32	365.39	311.89	461.80	311.89	461.80
VANO 7	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	115.35	402.96	115.35	402.96	266.66	497.13	266.66	497.13
VANO 7	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	58.90	436.65	58.90	436.65	226.10	528.80	226.10	528.80
VANO 7	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	58.90	436.65	58.90	436.65	226.10	528.80	226.10	528.80
VANO 7	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	10.84	465.32	10.84	465.32	191.57	555.76	191.57	555.76
VANO 7	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-30.71	490.11	-30.71	490.11	161.73	579.07	161.73	579.07
VANO 7	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-65.74	511.01	-65.74	511.01	136.56	598.73	136.56	598.73
VANO 7	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-94.27	528.03	-94.27	528.03	116.06	614.73	116.06	614.73
VANO 7	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-94.27	528.03	-94.27	528.03	116.06	614.73	116.06	614.73
VANO 7	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-116.28	541.17	-116.28	541.17	100.25	627.08	100.25	627.08
VANO 7	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-131.78	550.41	-131.78	550.41	89.12	635.78	89.12	635.78
VANO 7	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-140.76	555.78	-140.76	555.78	82.66	640.82	82.66	640.82
VANO 7	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-143.24	557.26	-143.24	557.26	80.88	642.21	80.88	642.21
VANO 7	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-143.24	557.26	-143.24	557.26	80.88	642.21	80.88	642.21
VANO 7	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-139.21	554.85	-139.21	554.85	83.78	639.95	83.78	639.95
VANO 7	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-128.66	548.55	-128.66	548.55	91.36	634.03	91.36	634.03
VANO 7	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-111.60	538.38	-111.60	538.38	103.61	624.46	103.61	624.46
VANO 7	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-88.03	524.31	-88.03	524.31	120.54	611.23	120.54	611.23
VANO 7	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-88.03	524.31	-88.03	524.31	120.54	611.23	120.54	611.23
VANO 7	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-57.95	506.36	-57.95	506.36	142.15	594.36	142.15	594.36
VANO 7	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	-21.36	484.53	-21.36	484.53	168.44	573.83	168.44	573.83
VANO 7	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	21.75	458.81	21.75	458.81	199.41	549.64	199.41	549.64
VANO 7	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	71.37	429.21	71.37	429.21	235.06	521.81	235.06	521.81
VANO 7	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	71.37	429.21	71.37	429.21	235.06	521.81	235.06	521.81
VANO 7	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	127.49	395.72	127.49	395.72	275.38	490.32	275.38	490.32
VANO 7	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	190.13	358.34	190.13	358.34	320.38	455.17	320.38	455.17
VANO 7	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	259.29	317.08	259.29	317.08	370.06	416.38	370.06	416.38
VANO 7	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	334.95	271.94	334.95	271.94	424.42	373.93	424.42	373.93
VANO 7	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	334.95	271.94	334.95	271.94	424.42	373.93	424.42	373.93
VANO 7	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	417.12	222.91	417.12	222.91	483.45	327.82	483.45	327.82
VANO 7	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	505.81	169.99	505.81	169.99	547.17	278.07	547.17	278.07
VANO 7	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	601.01	113.19	601.01	113.19	615.56	224.66	615.56	224.66
VANO 7	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	702.72	52.51	702.72	52.51	688.63	167.59	688.63	167.59
VANO 7	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	702.72	52.51	702.72	52.51	688.63	167.59	688.63	167.59
VANO 7	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	810.94	-12.07	810.94	-12.07	766.37	106.88	766.37	106.88
VANO 7	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	925.67	-80.52	925.67	-80.52	848.80	42.51	848.80	42.51
VANO 7	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	798.91	-162.51	798.91	-162.51	935.90	-25.52	935.90	-25.52
VANO 7	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74		-1416.00	0.00	0.00	890.69	-234.19	890.69	-234.19	1027.69	-97.19	1027.69	-97.19

		VANO 8	POSITIVOS	NEGATIVOS					MOMENTO	MOMENTO	MOMENTO													
		CARGAS	ENVOLVENTE	ENVOLVENTE	POSITIV	NEGATIV			PRETENSADO	RETENSADO	RETENSADO	AXIL	AXIL	AXIL	AXIL	AXIL	AXIL	MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS		MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS	
	X	PERMANENTES	OBRECARGAS	OBRECARGAS	ASIENTO 1.25 cm	ASIENTO 1.25 cm	GRADIENTE	X	EXTERIOR	CENTRADO	ADICIONAL	EXTERIOR	CENTRADO	ADICIONAL	RETR+FLU	INTER-VIA	FRENADO	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)
VANO 8	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	893.46	-220.49	893.46	-220.49	1021.55	-92.40	1021.55	-92.40
VANO 8	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	801.44	-148.63	801.44	-148.63	929.53	-20.54	929.53	-20.54
VANO 8	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	926.63	-64.87	926.63	-64.87	842.19	47.67	842.19	47.67
VANO 8	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	811.57	3.78	811.57	3.78	759.53	112.22	759.53	112.22
VANO 8	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	703.03	68.55	703.03	68.55	681.55	173.12	681.55	173.12
VANO 8	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	703.03	68.55	703.03	68.55	681.55	173.12	681.55	173.12
VANO 8	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	600.99	129.43	600.99	129.43	608.24	230.37	608.24	230.37
VANO 8	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	505.46	186.42	505.46	186.42	539.62	283.96	539.62	283.96
VANO 8	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	416.45	239.53	416.45	239.53	475.67	333.90	475.67	333.90
VANO 8	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	333.95	288.76	333.95	288.76	416.40	380.19	416.40	380.19
VANO 8	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	333.95	288.76	333.95	288.76	416.40	380.19	416.40	380.19
VANO 8	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74		-1323.91	0.00	0.00	257.96	334.10	257.96	334.10	361.81	422.82	361.81	422.82
VANO 8	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	123.95	311.02	123.95	311.02	255.31	405.22	255.31	405.22
VANO 8	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	60.98	348.59	60.98	348.59	210.08	440.55	210.08	440.55
VANO 8	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	4.52	382.28	4.52	382.28	169.52	472.22	169.52	472.22
VANO 8	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	4.52	382.28	4.52	382.28	169.52	472.22	169.52	472.22
VANO 8	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-43.53	410.95	-43.53	410.95	134.99	499.18	134.99	499.18
VANO 8	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-85.08	435.74	-85.08	435.74	105.14	522.49	105.14	522.49
VANO 8	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-120.11	456.64	-120.11	456.64	79.97	542.15	79.97	542.15
VANO 8	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-148.64	473.66	-148.64	473.66	59.48	558.15	59.48	558.15
VANO 8	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-148.64	473.66	-148.64	473.66	59.48	558.15	59.48	558.15
VANO 8	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-170.65	486.79	-170.65	486.79	43.67	570.50	43.67	570.50
VANO 8	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-186.15	496.04	-186.15	496.04	32.54	579.20	32.54	579.20
VANO 8	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-195.14	501.41	-195.14	501.41	26.08	584.24	26.08	584.24
VANO 8	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-197.61	502.88	-197.61	502.88	24.30	585.63	24.30	585.63
VANO 8	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-197.61	502.88	-197.61	502.88	24.30	585.63	24.30	585.63
VANO 8	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-193.58	500.48	-193.58	500.48	27.20	583.36	27.20	583.36
VANO 8	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-183.03	494.18	-183.03	494.18	34.77	577.45	34.77	577.45
VANO 8	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-165.97	484.00	-165.97	484.00	47.03	567.88	47.03	567.88
VANO 8	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-142.40	469.94	-142.40	469.94	63.96	554.65	63.96	554.65
VANO 8	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-142.40	469.94	-142.40	469.94	63.96	554.65	63.96	554.65
VANO 8	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-112.32	451.99	-112.32	451.99	85.57	537.78	85.57	537.78
VANO 8	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-75.73	430.16	-75.73	430.16	111.86	517.25	111.86	517.25
VANO 8	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	-32.62	404.44	-32.62	404.44	142.83	493.06	142.83	493.06
VANO 8	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	16.99	374.84	16.99	374.84	178.48	465.23	178.48	465.23
VANO 8	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	16.99	374.84	16.99	374.84	178.48	465.23	178.48	465.23
VANO 8	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	73.12	341.35	73.12	341.35	218.80	433.74	218.80	433.74
VANO 8	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	135.76	303.97	135.76	303.97	263.80	398.59	263.80	398.59
VANO 8	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	204.91	262.71	204.91	262.71	313.48	359.79	313.48	359.79
VANO 8	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	280.58	217.57	280.58	217.57	367.84	317.34	367.84	317.34
VANO 8	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	280.58	217.57	280.58	217.57	367.84	317.34	367.84	317.34
VANO 8	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	362.75	168.54	362.75	168.54	426.87	271.24	426.87	271.24
VANO 8	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	451.44	115.62	451.44	115.62	490.59	221.48	490.59	221.48
VANO 8	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	546.64	58.82	546.64	58.82	558.98	168.07	558.98	168.07
VANO 8	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	648.34	-1.87	648.34	-1.87	632.05	111.01	632.05	111.01
VANO 8	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	648.34	-1.87	648.34	-1.87	632.05	111.01	632.05	111.01
VANO 8	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	756.57	-66.44	756.57	-66.44	709.79	50.30	709.79	50.30
VANO 8	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	871.30	-134.89	871.30	-134.89	792.22	-14.07	792.22	-14.07
VANO 8	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	992.54	-207.24	992.54	-207.24	879.32	-82.10	879.32	-82.10
VANO 8	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1323.91	0.00	0.00	843.02	-281.86	843.02	-281.86	971.10	-153.77	971.10	-153.77

	X	VANO 9 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 9	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	845.82	-268.12	845.82	-268.12	964.97	-148.98	964.97	-148.98
VANO 9	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	753.81	-196.26	753.81	-196.26	872.95	-77.12	872.95	-77.12
VANO 9	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	872.30	-119.20	872.30	-119.20	785.61	-8.91	785.61	-8.91
VANO 9	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	757.24	-50.55	757.24	-50.55	702.95	55.64	702.95	55.64
VANO 9	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	648.70	14.22	648.70	14.22	624.97	116.54	624.97	116.54
VANO 9	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	648.70	14.22	648.70	14.22	624.97	116.54	624.97	116.54
VANO 9	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	546.66	75.10	546.66	75.10	551.66	173.79	551.66	173.79
VANO 9	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	451.13	132.09	451.13	132.09	483.04	227.38	483.04	227.38
VANO 9	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	362.12	185.20	362.12	185.20	419.09	277.32	419.09	277.32
VANO 9	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	279.62	234.43	279.62	234.43	359.82	323.61	359.82	323.61
VANO 9	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	279.62	234.43	279.62	234.43	359.82	323.61	359.82	323.61
VANO 9	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	203.63	279.77	203.63	279.77	305.23	366.24	305.23	366.24
VANO 9	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	134.15	321.23	134.15	321.23	255.31	405.22	255.31	405.22
VANO 9	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	71.18	358.80	71.18	358.80	210.08	440.55	210.08	440.55
VANO 9	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	14.73	392.48	14.73	392.48	169.52	472.22	169.52	472.22
VANO 9	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	14.73	392.48	14.73	392.48	169.52	472.22	169.52	472.22
VANO 9	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-33.33	421.15	-33.33	421.15	134.99	499.18	134.99	499.18
VANO 9	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-74.88	445.94	-74.88	445.94	105.14	522.49	105.14	522.49
VANO 9	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-109.91	466.85	-109.91	466.85	79.97	542.15	79.97	542.15
VANO 9	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-138.43	483.87	-138.43	483.87	59.48	558.15	59.48	558.15
VANO 9	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-138.43	483.87	-138.43	483.87	59.48	558.15	59.48	558.15
VANO 9	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-160.45	497.00	-160.45	497.00	43.67	570.50	43.67	570.50
VANO 9	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-175.94	506.25	-175.94	506.25	32.54	579.20	32.54	579.20
VANO 9	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-184.93	511.61	-184.93	511.61	26.08	584.24	26.08	584.24
VANO 9	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-187.41	513.09	-187.41	513.09	24.30	585.63	24.30	585.63
VANO 9	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-187.41	513.09	-187.41	513.09	24.30	585.63	24.30	585.63
VANO 9	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-183.37	510.68	-183.37	510.68	27.20	583.36	27.20	583.36
VANO 9	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-172.83	504.39	-172.83	504.39	34.77	577.45	34.77	577.45
VANO 9	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-155.77	494.21	-155.77	494.21	47.03	567.88	47.03	567.88
VANO 9	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-132.20	480.15	-132.20	480.15	63.96	554.65	63.96	554.65
VANO 9	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-132.20	480.15	-132.20	480.15	63.96	554.65	63.96	554.65
VANO 9	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-102.12	462.20	-102.12	462.20	85.57	537.78	85.57	537.78
VANO 9	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-65.52	440.36	-65.52	440.36	111.86	517.25	111.86	517.25
VANO 9	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	-22.42	414.64	-22.42	414.64	142.83	493.06	142.83	493.06
VANO 9	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	27.20	385.04	27.20	385.04	178.48	465.23	178.48	465.23
VANO 9	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	27.20	385.04	27.20	385.04	178.48	465.23	178.48	465.23
VANO 9	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	83.33	351.55	83.33	351.55	218.80	433.74	218.80	433.74
VANO 9	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	145.97	314.18	145.97	314.18	263.80	398.59	263.80	398.59
VANO 9	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	215.12	272.92	215.12	272.92	313.48	359.79	313.48	359.79
VANO 9	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	290.78	227.77	290.78	227.77	367.84	317.34	367.84	317.34
VANO 9	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	290.78	227.77	290.78	227.77	367.84	317.34	367.84	317.34
VANO 9	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	372.95	178.74	372.95	178.74	426.87	271.24	426.87	271.24
VANO 9	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	461.64	125.82	461.64	125.82	490.59	221.48	490.59	221.48
VANO 9	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	556.84	69.02	556.84	69.02	558.98	168.07	558.98	168.07
VANO 9	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	658.55	8.34	658.55	8.34	632.05	111.01	632.05	111.01
VANO 9	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	658.55	8.34	658.55	8.34	632.05	111.01	632.05	111.01
VANO 9	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	766.77	-56.23	766.77	-56.23	709.79	50.30	709.79	50.30
VANO 9	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	881.50	-124.69	881.50	-124.69	792.22	-14.07	792.22	-14.07
VANO 9	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	760.18	-201.24	760.18	-201.24	879.32	-82.10	879.32	-82.10
VANO 9	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1231.44	0.00	0.00	851.96	-272.91	851.96	-272.91	971.10	-153.77	971.10	-153.77

	X	VANO 10 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 10	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	854.71	-259.24	854.71	-259.24	964.97	-148.98	964.97	-148.98
VANO 10	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	762.69	-187.38	762.69	-187.38	872.95	-77.12	872.95	-77.12
VANO 10	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	882.43	-109.07	882.43	-109.07	785.61	-8.91	785.61	-8.91
VANO 10	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	767.37	-40.42	767.37	-40.42	702.95	55.64	702.95	55.64
VANO 10	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	658.83	24.35	658.83	24.35	624.97	116.54	624.97	116.54
VANO 10	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	658.83	24.35	658.83	24.35	624.97	116.54	624.97	116.54
VANO 10	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	556.79	85.23	556.79	85.23	551.66	173.79	551.66	173.79
VANO 10	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	461.26	142.23	461.26	142.23	483.04	227.38	483.04	227.38
VANO 10	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	372.25	195.34	372.25	195.34	419.09	277.32	419.09	277.32
VANO 10	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	289.75	244.56	289.75	244.56	359.82	323.61	359.82	323.61
VANO 10	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	289.75	244.56	289.75	244.56	359.82	323.61	359.82	323.61
VANO 10	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	213.76	289.90	213.76	289.90	305.23	366.24	305.23	366.24
VANO 10	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	144.28	331.36	144.28	331.36	255.31	405.22	255.31	405.22
VANO 10	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	81.31	368.93	81.31	368.93	210.08	440.55	210.08	440.55
VANO 10	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	24.86	402.61	24.86	402.61	169.52	472.22	169.52	472.22
VANO 10	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	24.86	402.61	24.86	402.61	169.52	472.22	169.52	472.22
VANO 10	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-23.20	431.29	-23.20	431.29	134.99	499.18	134.99	499.18
VANO 10	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-64.75	456.07	-64.75	456.07	105.14	522.49	105.14	522.49
VANO 10	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-99.78	476.98	-99.78	476.98	79.97	542.15	79.97	542.15
VANO 10	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-128.30	494.00	-128.30	494.00	59.48	558.15	59.48	558.15
VANO 10	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-128.30	494.00	-128.30	494.00	59.48	558.15	59.48	558.15
VANO 10	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-150.31	507.13	-150.31	507.13	43.67	570.50	43.67	570.50
VANO 10	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-165.81	516.38	-165.81	516.38	32.54	579.20	32.54	579.20
VANO 10	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-174.80	521.74	-174.80	521.74	26.08	584.24	26.08	584.24
VANO 10	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-177.28	523.22	-177.28	523.22	24.30	585.63	24.30	585.63
VANO 10	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-177.28	523.22	-177.28	523.22	24.30	585.63	24.30	585.63
VANO 10	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-173.24	520.81	-173.24	520.81	27.20	583.36	27.20	583.36
VANO 10	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-162.70	514.52	-162.70	514.52	34.77	577.45	34.77	577.45
VANO 10	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-145.64	504.34	-145.64	504.34	47.03	567.88	47.03	567.88
VANO 10	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-122.07	490.28	-122.07	490.28	63.96	554.65	63.96	554.65
VANO 10	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-122.07	490.28	-122.07	490.28	63.96	554.65	63.96	554.65
VANO 10	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-91.99	472.33	-91.99	472.33	85.57	537.78	85.57	537.78
VANO 10	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-55.39	450.49	-55.39	450.49	111.86	517.25	111.86	517.25
VANO 10	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	-12.29	424.78	-12.29	424.78	142.83	493.06	142.83	493.06
VANO 10	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	37.33	395.17	37.33	395.17	178.48	465.23	178.48	465.23
VANO 10	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	37.33	395.17	37.33	395.17	178.48	465.23	178.48	465.23
VANO 10	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	93.46	361.68	93.46	361.68	218.80	433.74	218.80	433.74
VANO 10	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	156.10	324.31	156.10	324.31	263.80	398.59	263.80	398.59
VANO 10	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	225.25	283.05	225.25	283.05	313.48	359.79	313.48	359.79
VANO 10	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	300.91	237.90	300.91	237.90	367.84	317.34	367.84	317.34
VANO 10	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	300.91	237.90	300.91	237.90	367.84	317.34	367.84	317.34
VANO 10	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	383.09	188.87	383.09	188.87	426.87	271.24	426.87	271.24
VANO 10	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	471.77	135.96	471.77	135.96	490.59	221.48	490.59	221.48
VANO 10	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	566.97	79.15	566.97	79.15	558.98	168.07	558.98	168.07
VANO 10	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	668.68	18.47	668.68	18.47	632.05	111.01	632.05	111.01
VANO 10	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	668.68	18.47	668.68	18.47	632.05	111.01	632.05	111.01
VANO 10	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	776.90	-46.10	776.90	-46.10	709.79	50.30	709.79	50.30
VANO 10	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	891.63	-114.56	891.63	-114.56	792.22	-14.07	792.22	-14.07
VANO 10	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	769.06	-192.36	769.06	-192.36	879.32	-82.10	879.32	-82.10
VANO 10	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1139.63	0.00	0.00	860.85	-264.03	860.85	-264.03	971.10	-153.77	971.10	-153.77

	X	VANO 11 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 11	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	863.67	-250.27	863.67	-250.27	964.97	-148.98	964.97	-148.98
VANO 11	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	771.65	-178.41	771.65	-178.41	872.95	-77.12	872.95	-77.12
VANO 11	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	892.66	-98.85	892.66	-98.85	785.61	-8.91	785.61	-8.91
VANO 11	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	777.60	-30.19	777.60	-30.19	702.95	55.64	702.95	55.64
VANO 11	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	669.05	34.57	669.05	34.57	624.97	116.54	624.97	116.54
VANO 11	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	669.05	34.57	669.05	34.57	624.97	116.54	624.97	116.54
VANO 11	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	567.01	95.45	567.01	95.45	551.66	173.79	551.66	173.79
VANO 11	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	471.49	152.45	471.49	152.45	483.04	227.38	483.04	227.38
VANO 11	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	382.48	205.56	382.48	205.56	419.09	277.32	419.09	277.32
VANO 11	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	299.97	254.79	299.97	254.79	359.82	323.61	359.82	323.61
VANO 11	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	299.97	254.79	299.97	254.79	359.82	323.61	359.82	323.61
VANO 11	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	223.98	300.13	223.98	300.13	305.23	366.24	305.23	366.24
VANO 11	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	154.50	341.58	154.50	341.58	255.31	405.22	255.31	405.22
VANO 11	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	91.54	379.15	91.54	379.15	210.08	440.55	210.08	440.55
VANO 11	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	35.08	412.83	35.08	412.83	169.52	472.22	169.52	472.22
VANO 11	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	35.08	412.83	35.08	412.83	169.52	472.22	169.52	472.22
VANO 11	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-12.98	441.51	-12.98	441.51	134.99	499.18	134.99	499.18
VANO 11	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-54.52	466.30	-54.52	466.30	105.14	522.49	105.14	522.49
VANO 11	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-89.56	487.20	-89.56	487.20	79.97	542.15	79.97	542.15
VANO 11	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-118.08	504.22	-118.08	504.22	59.48	558.15	59.48	558.15
VANO 11	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-118.08	504.22	-118.08	504.22	59.48	558.15	59.48	558.15
VANO 11	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-140.09	517.35	-140.09	517.35	43.67	570.50	43.67	570.50
VANO 11	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-155.59	526.60	-155.59	526.60	32.54	579.20	32.54	579.20
VANO 11	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-164.58	531.96	-164.58	531.96	26.08	584.24	26.08	584.24
VANO 11	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-167.05	533.44	-167.05	533.44	24.30	585.63	24.30	585.63
VANO 11	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-167.05	533.44	-167.05	533.44	24.30	585.63	24.30	585.63
VANO 11	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-163.02	531.03	-163.02	531.03	27.20	583.36	27.20	583.36
VANO 11	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-152.47	524.74	-152.47	524.74	34.77	577.45	34.77	577.45
VANO 11	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-135.41	514.56	-135.41	514.56	47.03	567.88	47.03	567.88
VANO 11	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-111.84	500.50	-111.84	500.50	63.96	554.65	63.96	554.65
VANO 11	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-111.84	500.50	-111.84	500.50	63.96	554.65	63.96	554.65
VANO 11	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-81.76	482.55	-81.76	482.55	85.57	537.78	85.57	537.78
VANO 11	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-45.17	460.72	-45.17	460.72	111.86	517.25	111.86	517.25
VANO 11	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	-2.06	435.00	-2.06	435.00	142.83	493.06	142.83	493.06
VANO 11	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	47.55	405.39	47.55	405.39	178.48	465.23	178.48	465.23
VANO 11	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	47.55	405.39	47.55	405.39	178.48	465.23	178.48	465.23
VANO 11	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	103.68	371.91	103.68	371.91	218.80	433.74	218.80	433.74
VANO 11	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	166.32	334.53	166.32	334.53	263.80	398.59	263.80	398.59
VANO 11	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	235.47	293.27	235.47	293.27	313.48	359.79	313.48	359.79
VANO 11	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	311.13	248.13	311.13	248.13	367.84	317.34	367.84	317.34
VANO 11	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	311.13	248.13	311.13	248.13	367.84	317.34	367.84	317.34
VANO 11	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	393.31	199.10	393.31	199.10	426.87	271.24	426.87	271.24
VANO 11	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	482.00	146.18	482.00	146.18	490.59	221.48	490.59	221.48
VANO 11	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	577.19	89.38	577.19	89.38	558.98	168.07	558.98	168.07
VANO 11	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	678.90	28.69	678.90	28.69	632.05	111.01	632.05	111.01
VANO 11	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	678.90	28.69	678.90	28.69	632.05	111.01	632.05	111.01
VANO 11	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	787.13	-35.88	787.13	-35.88	709.79	50.30	709.79	50.30
VANO 11	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	901.86	-104.34	901.86	-104.34	792.22	-14.07	792.22	-14.07
VANO 11	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	778.03	-183.39	778.03	-183.39	879.32	-82.10	879.32	-82.10
VANO 11	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-1046.98	0.00	0.00	869.81	-255.07	869.81	-255.07	971.10	-153.77	971.10	-153.77

	X	VANO 12 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 12	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	872.56	-241.38	872.56	-241.38	964.97	-148.98	964.97	-148.98
VANO 12	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	780.55	-169.52	780.55	-169.52	872.95	-77.12	872.95	-77.12
VANO 12	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	902.80	-88.70	902.80	-88.70	785.61	-8.91	785.61	-8.91
VANO 12	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	787.74	-20.05	787.74	-20.05	702.95	55.64	702.95	55.64
VANO 12	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	679.19	44.71	679.19	44.71	624.97	116.54	624.97	116.54
VANO 12	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	679.19	44.71	679.19	44.71	624.97	116.54	624.97	116.54
VANO 12	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	577.16	105.60	577.16	105.60	551.66	173.79	551.66	173.79
VANO 12	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	481.63	162.59	481.63	162.59	483.04	227.38	483.04	227.38
VANO 12	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	392.62	215.70	392.62	215.70	419.09	277.32	419.09	277.32
VANO 12	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	310.12	264.93	310.12	264.93	359.82	323.61	359.82	323.61
VANO 12	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	310.12	264.93	310.12	264.93	359.82	323.61	359.82	323.61
VANO 12	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	234.13	310.27	234.13	310.27	305.23	366.24	305.23	366.24
VANO 12	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	164.65	351.72	164.65	351.72	255.31	405.22	255.31	405.22
VANO 12	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	101.68	389.29	101.68	389.29	210.08	440.55	210.08	440.55
VANO 12	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	45.22	422.98	45.22	422.98	169.52	472.22	169.52	472.22
VANO 12	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	45.22	422.98	45.22	422.98	169.52	472.22	169.52	472.22
VANO 12	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-2.83	451.65	-2.83	451.65	134.99	499.18	134.99	499.18
VANO 12	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-44.38	476.44	-44.38	476.44	105.14	522.49	105.14	522.49
VANO 12	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-79.41	497.34	-79.41	497.34	79.97	542.15	79.97	542.15
VANO 12	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-107.94	514.36	-107.94	514.36	59.48	558.15	59.48	558.15
VANO 12	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-107.94	514.36	-107.94	514.36	59.48	558.15	59.48	558.15
VANO 12	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-129.95	527.50	-129.95	527.50	43.67	570.50	43.67	570.50
VANO 12	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-145.45	536.74	-145.45	536.74	32.54	579.20	32.54	579.20
VANO 12	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-154.44	542.11	-154.44	542.11	26.08	584.24	26.08	584.24
VANO 12	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-156.91	543.58	-156.91	543.58	24.30	585.63	24.30	585.63
VANO 12	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-156.91	543.58	-156.91	543.58	24.30	585.63	24.30	585.63
VANO 12	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-152.88	541.18	-152.88	541.18	27.20	583.36	27.20	583.36
VANO 12	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-142.33	534.88	-142.33	534.88	34.77	577.45	34.77	577.45
VANO 12	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-125.27	524.71	-125.27	524.71	47.03	567.88	47.03	567.88
VANO 12	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-101.70	510.64	-101.70	510.64	63.96	554.65	63.96	554.65
VANO 12	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-101.70	510.64	-101.70	510.64	63.96	554.65	63.96	554.65
VANO 12	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-71.62	492.69	-71.62	492.69	85.57	537.78	85.57	537.78
VANO 12	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	-35.03	470.86	-35.03	470.86	111.86	517.25	111.86	517.25
VANO 12	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	8.08	445.14	8.08	445.14	142.83	493.06	142.83	493.06
VANO 12	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	57.69	415.54	57.69	415.54	178.48	465.23	178.48	465.23
VANO 12	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	57.69	415.54	57.69	415.54	178.48	465.23	178.48	465.23
VANO 12	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	113.82	382.05	113.82	382.05	218.80	433.74	218.80	433.74
VANO 12	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	176.46	344.67	176.46	344.67	263.80	398.59	263.80	398.59
VANO 12	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	245.61	303.41	245.61	303.41	313.48	359.79	313.48	359.79
VANO 12	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	321.28	258.27	321.28	258.27	367.84	317.34	367.84	317.34
VANO 12	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	321.28	258.27	321.28	258.27	367.84	317.34	367.84	317.34
VANO 12	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	403.45	209.24	403.45	209.24	426.87	271.24	426.87	271.24
VANO 12	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	492.14	156.32	492.14	156.32	490.59	221.48	490.59	221.48
VANO 12	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	587.34	99.52	587.34	99.52	558.98	168.07	558.98	168.07
VANO 12	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	689.05	38.83	689.05	38.83	632.05	111.01	632.05	111.01
VANO 12	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	689.05	38.83	689.05	38.83	632.05	111.01	632.05	111.01
VANO 12	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	797.27	-25.74	797.27	-25.74	709.79	50.30	709.79	50.30
VANO 12	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	912.00	-94.19	912.00	-94.19	792.22	-14.07	792.22	-14.07
VANO 12	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	786.92	-174.50	786.92	-174.50	879.32	-82.10	879.32	-82.10
VANO 12	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-955.07	0.00	0.00	878.70	-246.18	878.70	-246.18	971.10	-153.77	971.10	-153.77

	VANO 13	POSITIVOS	NEGATIVOS					MOMENTO	MOMENTO	MOMENTO														
		CARGAS	ENVOLVENTE	ENVOLVENTE	POSITIV	NEGATIV			PRETENSADO	RETENSADO	RETENSADO	AXIL	AXIL	AXIL	AXIL	AXIL	AXIL	MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS		MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS	
	X	PERMANENTES	OBRECARGAS	OBRECARGAS	ASIENTO 1.25 cm	ASIENTO 1.25 cm	GRADIENTE	X	EXTERIOR	CENTRADO	ADICIONAL	EXTERIOR	CENTRADO	ADICIONAL	RETR+FLU	INTER-VIA	FRENADO	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)
VANO 13	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	881.48	-232.46	881.48	-232.46	964.97	-148.98	964.97	-148.98
VANO 13	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	789.47	-160.60	789.47	-160.60	872.95	-77.12	872.95	-77.12
VANO 13	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	912.97	-78.53	912.97	-78.53	785.61	-8.91	785.61	-8.91
VANO 13	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	797.91	-9.88	797.91	-9.88	702.95	55.64	702.95	55.64
VANO 13	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	689.37	54.89	689.37	54.89	624.97	116.54	624.97	116.54
VANO 13	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	689.37	54.89	689.37	54.89	624.97	116.54	624.97	116.54
VANO 13	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	587.33	115.77	587.33	115.77	551.66	173.79	551.66	173.79
VANO 13	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	491.80	172.76	491.80	172.76	483.04	227.38	483.04	227.38
VANO 13	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	402.79	225.87	402.79	225.87	419.09	277.32	419.09	277.32
VANO 13	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	320.29	275.10	320.29	275.10	359.82	323.61	359.82	323.61
VANO 13	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	320.29	275.10	320.29	275.10	359.82	323.61	359.82	323.61
VANO 13	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	244.30	320.44	244.30	320.44	305.23	366.24	305.23	366.24
VANO 13	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	174.82	361.90	174.82	361.90	255.31	405.22	255.31	405.22
VANO 13	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	111.85	399.47	111.85	399.47	210.08	440.55	210.08	440.55
VANO 13	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	55.40	433.15	55.40	433.15	169.52	472.22	169.52	472.22
VANO 13	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	55.40	433.15	55.40	433.15	169.52	472.22	169.52	472.22
VANO 13	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	7.34	461.82	7.34	461.82	134.99	499.18	134.99	499.18
VANO 13	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-34.21	486.61	-34.21	486.61	105.14	522.49	105.14	522.49
VANO 13	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-69.24	507.52	-69.24	507.52	79.97	542.15	79.97	542.15
VANO 13	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-97.76	524.54	-97.76	524.54	59.48	558.15	59.48	558.15
VANO 13	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-97.76	524.54	-97.76	524.54	59.48	558.15	59.48	558.15
VANO 13	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-119.78	537.67	-119.78	537.67	43.67	570.50	43.67	570.50
VANO 13	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-135.27	546.92	-135.27	546.92	32.54	579.20	32.54	579.20
VANO 13	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-144.26	552.28	-144.26	552.28	26.08	584.24	26.08	584.24
VANO 13	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-146.74	553.76	-146.74	553.76	24.30	585.63	24.30	585.63
VANO 13	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-146.74	553.76	-146.74	553.76	24.30	585.63	24.30	585.63
VANO 13	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-142.70	551.35	-142.70	551.35	27.20	583.36	27.20	583.36
VANO 13	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-132.16	545.06	-132.16	545.06	34.77	577.45	34.77	577.45
VANO 13	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-115.10	534.88	-115.10	534.88	47.03	567.88	47.03	567.88
VANO 13	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-91.53	520.82	-91.53	520.82	63.96	554.65	63.96	554.65
VANO 13	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-91.53	520.82	-91.53	520.82	63.96	554.65	63.96	554.65
VANO 13	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-61.45	502.87	-61.45	502.87	85.57	537.78	85.57	537.78
VANO 13	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	-24.85	481.03	-24.85	481.03	111.86	517.25	111.86	517.25
VANO 13	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	18.25	455.31	18.25	455.31	142.83	493.06	142.83	493.06
VANO 13	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	67.87	425.71	67.87	425.71	178.48	465.23	178.48	465.23
VANO 13	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	67.87	425.71	67.87	425.71	178.48	465.23	178.48	465.23
VANO 13	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	124.00	392.22	124.00	392.22	218.80	433.74	218.80	433.74
VANO 13	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	186.64	354.85	186.64	354.85	263.80	398.59	263.80	398.59
VANO 13	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	255.79	313.59	255.79	313.59	313.48	359.79	313.48	359.79
VANO 13	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	331.45	268.44	331.45	268.44	367.84	317.34	367.84	317.34
VANO 13	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	331.45	268.44	331.45	268.44	367.84	317.34	367.84	317.34
VANO 13	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	413.62	219.41	413.62	219.41	426.87	271.24	426.87	271.24
VANO 13	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	502.31	166.49	502.31	166.49	490.59	221.48	490.59	221.48
VANO 13	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	597.51	109.69	597.51	109.69	558.98	168.07	558.98	168.07
VANO 13	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	699.22	49.01	699.22	49.01	632.05	111.01	632.05	111.01
VANO 13	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	699.22	49.01	699.22	49.01	632.05	111.01	632.05	111.01
VANO 13	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	807.44	-15.56	807.44	-15.56	709.79	50.30	709.79	50.30
VANO 13	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	922.17	-84.02	922.17	-84.02	792.22	-14.07	792.22	-14.07
VANO 13	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	795.84	-165.58	795.84	-165.58	879.32	-82.10	879.32	-82.10
VANO 13	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-862.88	0.00	0.00	887.62	-237.26	887.62	-237.26	971.10	-153.77	971.10	-153.77

	VANO 14	POSITIVOS	NEGATIVOS					MOMENTO	MOMENTO	MOMENTO														
		CARGAS	ENVOLVENTE	ENVOLVENTE	POSITIV	NEGATIV			PRETENSADO	RETENSADO	RETENSADO	AXIL	AXIL	AXIL	AXIL	AXIL	AXIL	MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS		MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS	
	X	PERMANENTES	OBRECARGAS	OBRECARGAS	ASIENTO 1.25 cm	ASIENTO 1.25 cm	GRADIENTE	X	EXTERIOR	CENTRADO	ADICIONAL	EXTERIOR	CENTRADO	ADICIONAL	RETR+FLU	INTER-VIA	FRENADO	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)
VANO 14	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	890.42	-223.52	890.42	-223.52	964.97	-148.98	964.97	-148.98
VANO 14	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	798.41	-151.66	798.41	-151.66	872.95	-77.12	872.95	-77.12
VANO 14	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	923.17	-68.33	923.17	-68.33	785.61	-8.91	785.61	-8.91
VANO 14	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	808.11	0.32	808.11	0.32	702.95	55.64	702.95	55.64
VANO 14	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	699.56	65.08	699.56	65.08	624.97	116.54	624.97	116.54
VANO 14	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	699.56	65.08	699.56	65.08	624.97	116.54	624.97	116.54
VANO 14	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	597.53	125.97	597.53	125.97	551.66	173.79	551.66	173.79
VANO 14	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	502.00	182.96	502.00	182.96	483.04	227.38	483.04	227.38
VANO 14	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	412.99	236.07	412.99	236.07	419.09	277.32	419.09	277.32
VANO 14	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	330.49	285.30	330.49	285.30	359.82	323.61	359.82	323.61
VANO 14	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	330.49	285.30	330.49	285.30	359.82	323.61	359.82	323.61
VANO 14	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	254.50	330.64	254.50	330.64	305.23	366.24	305.23	366.24
VANO 14	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	185.02	372.09	185.02	372.09	255.31	405.22	255.31	405.22
VANO 14	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	122.05	409.66	122.05	409.66	210.08	440.55	210.08	440.55
VANO 14	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	65.60	443.35	65.60	443.35	169.52	472.22	169.52	472.22
VANO 14	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	65.60	443.35	65.60	443.35	169.52	472.22	169.52	472.22
VANO 14	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	17.54	472.02	17.54	472.02	134.99	499.18	134.99	499.18
VANO 14	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-24.01	496.81	-24.01	496.81	105.14	522.49	105.14	522.49
VANO 14	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-59.04	517.71	-59.04	517.71	79.97	542.15	79.97	542.15
VANO 14	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-87.57	534.73	-87.57	534.73	59.48	558.15	59.48	558.15
VANO 14	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-87.57	534.73	-87.57	534.73	59.48	558.15	59.48	558.15
VANO 14	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-109.58	547.87	-109.58	547.87	43.67	570.50	43.67	570.50
VANO 14	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-125.08	557.11	-125.08	557.11	32.54	579.20	32.54	579.20
VANO 14	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-134.07	562.48	-134.07	562.48	26.08	584.24	26.08	584.24
VANO 14	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-136.54	563.95	-136.54	563.95	24.30	585.63	24.30	585.63
VANO 14	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-136.54	563.95	-136.54	563.95	24.30	585.63	24.30	585.63
VANO 14	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-132.51	561.55	-132.51	561.55	27.20	583.36	27.20	583.36
VANO 14	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-121.96	555.25	-121.96	555.25	34.77	577.45	34.77	577.45
VANO 14	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-104.90	545.08	-104.90	545.08	47.03	567.88	47.03	567.88
VANO 14	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-81.33	531.01	-81.33	531.01	63.96	554.65	63.96	554.65
VANO 14	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-81.33	531.01	-81.33	531.01	63.96	554.65	63.96	554.65
VANO 14	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-51.25	513.06	-51.25	513.06	85.57	537.78	85.57	537.78
VANO 14	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	-14.66	491.23	-14.66	491.23	111.86	517.25	111.86	517.25
VANO 14	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	28.45	465.51	28.45	465.51	142.83	493.06	142.83	493.06
VANO 14	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	78.06	435.91	78.06	435.91	178.48	465.23	178.48	465.23
VANO 14	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	78.06	435.91	78.06	435.91	178.48	465.23	178.48	465.23
VANO 14	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	134.19	402.42	134.19	402.42	218.80	433.74	218.80	433.74
VANO 14	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	196.83	365.04	196.83	365.04	263.80	398.59	263.80	398.59
VANO 14	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	265.98	323.78	265.98	323.78	313.48	359.79	313.48	359.79
VANO 14	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	341.65	278.64	341.65	278.64	367.84	317.34	367.84	317.34
VANO 14	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	341.65	278.64	341.65	278.64	367.84	317.34	367.84	317.34
VANO 14	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	423.82	229.61	423.82	229.61	426.87	271.24	426.87	271.24
VANO 14	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	512.51	176.69	512.51	176.69	490.59	221.48	490.59	221.48
VANO 14	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	607.71	119.89	607.71	119.89	558.98	168.07	558.98	168.07
VANO 14	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	709.42	59.21	709.42	59.21	632.05	111.01	632.05	111.01
VANO 14	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	709.42	59.21	709.42	59.21	632.05	111.01	632.05	111.01
VANO 14	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	817.64	-5.37	817.64	-5.37	709.79	50.30	709.79	50.30
VANO 14	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	932.37	-73.82	932.37	-73.82	792.22	-14.07	792.22	-14.07
VANO 14	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	804.78	-156.64	804.78	-156.64	879.32	-82.10	879.32	-82.10
VANO 14	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-770.47	0.00	0.00	896.56	-228.32	896.56	-228.32	971.10	-153.77	971.10	-153.77

	X	VANO 15 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 15	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	899.32	-214.62	899.32	-214.62	964.97	-148.98	964.97	-148.98
VANO 15	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	807.31	-142.76	807.31	-142.76	872.95	-77.12	872.95	-77.12
VANO 15	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	933.32	-58.18	933.32	-58.18	785.61	-8.91	785.61	-8.91
VANO 15	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	818.26	10.47	818.26	10.47	702.95	55.64	702.95	55.64
VANO 15	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	709.71	75.23	709.71	75.23	624.97	116.54	624.97	116.54
VANO 15	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	709.71	75.23	709.71	75.23	624.97	116.54	624.97	116.54
VANO 15	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	607.68	136.12	607.68	136.12	551.66	173.79	551.66	173.79
VANO 15	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	512.15	193.11	512.15	193.11	483.04	227.38	483.04	227.38
VANO 15	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	423.14	246.22	423.14	246.22	419.09	277.32	419.09	277.32
VANO 15	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	340.64	295.45	340.64	295.45	359.82	323.61	359.82	323.61
VANO 15	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	340.64	295.45	340.64	295.45	359.82	323.61	359.82	323.61
VANO 15	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	264.65	340.79	264.65	340.79	305.23	366.24	305.23	366.24
VANO 15	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	195.17	382.24	195.17	382.24	255.31	405.22	255.31	405.22
VANO 15	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	132.20	419.81	132.20	419.81	210.08	440.55	210.08	440.55
VANO 15	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	75.75	453.50	75.75	453.50	169.52	472.22	169.52	472.22
VANO 15	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	75.75	453.50	75.75	453.50	169.52	472.22	169.52	472.22
VANO 15	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	27.69	482.17	27.69	482.17	134.99	499.18	134.99	499.18
VANO 15	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-13.86	506.96	-13.86	506.96	105.14	522.49	105.14	522.49
VANO 15	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-48.89	527.86	-48.89	527.86	79.97	542.15	79.97	542.15
VANO 15	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-77.42	544.88	-77.42	544.88	59.48	558.15	59.48	558.15
VANO 15	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-77.42	544.88	-77.42	544.88	59.48	558.15	59.48	558.15
VANO 15	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-99.43	558.02	-99.43	558.02	43.67	570.50	43.67	570.50
VANO 15	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-114.93	567.26	-114.93	567.26	32.54	579.20	32.54	579.20
VANO 15	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-123.92	572.63	-123.92	572.63	26.08	584.24	26.08	584.24
VANO 15	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-126.39	574.10	-126.39	574.10	24.30	585.63	24.30	585.63
VANO 15	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-126.39	574.10	-126.39	574.10	24.30	585.63	24.30	585.63
VANO 15	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-122.36	571.70	-122.36	571.70	27.20	583.36	27.20	583.36
VANO 15	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-111.81	565.40	-111.81	565.40	34.77	577.45	34.77	577.45
VANO 15	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-94.75	555.23	-94.75	555.23	47.03	567.88	47.03	567.88
VANO 15	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-71.18	541.16	-71.18	541.16	63.96	554.65	63.96	554.65
VANO 15	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-71.18	541.16	-71.18	541.16	63.96	554.65	63.96	554.65
VANO 15	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-41.10	523.21	-41.10	523.21	85.57	537.78	85.57	537.78
VANO 15	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	-4.51	501.38	-4.51	501.38	111.86	517.25	111.86	517.25
VANO 15	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	38.60	475.66	38.60	475.66	142.83	493.06	142.83	493.06
VANO 15	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	88.21	446.06	88.21	446.06	178.48	465.23	178.48	465.23
VANO 15	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	88.21	446.06	88.21	446.06	178.48	465.23	178.48	465.23
VANO 15	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	144.34	412.57	144.34	412.57	218.80	433.74	218.80	433.74
VANO 15	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	206.98	375.19	206.98	375.19	263.80	398.59	263.80	398.59
VANO 15	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	276.13	333.93	276.13	333.93	313.48	359.79	313.48	359.79
VANO 15	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	351.80	288.79	351.80	288.79	367.84	317.34	367.84	317.34
VANO 15	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	351.80	288.79	351.80	288.79	367.84	317.34	367.84	317.34
VANO 15	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	433.97	239.76	433.97	239.76	426.87	271.24	426.87	271.24
VANO 15	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	522.66	186.84	522.66	186.84	490.59	221.48	490.59	221.48
VANO 15	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	617.86	130.04	617.86	130.04	558.98	168.07	558.98	168.07
VANO 15	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	719.57	69.35	719.57	69.35	632.05	111.01	632.05	111.01
VANO 15	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	719.57	69.35	719.57	69.35	632.05	111.01	632.05	111.01
VANO 15	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	827.79	4.78	827.79	4.78	709.79	50.30	709.79	50.30
VANO 15	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	942.52	-63.67	942.52	-63.67	792.22	-14.07	792.22	-14.07
VANO 15	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	813.68	-147.74	813.68	-147.74	879.32	-82.10	879.32	-82.10
VANO 15	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-678.49	0.00	0.00	905.46	-219.42	905.46	-219.42	971.10	-153.77	971.10	-153.77

	X	VANO 16 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 16	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	908.25	-205.69	908.25	-205.69	964.97	-148.98	964.97	-148.98
VANO 16	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	816.24	-133.83	816.24	-133.83	872.95	-77.12	872.95	-77.12
VANO 16	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	943.51	-48.00	943.51	-48.00	785.61	-8.91	785.61	-8.91
VANO 16	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	828.45	20.66	828.45	20.66	702.95	55.64	702.95	55.64
VANO 16	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	719.90	85.42	719.90	85.42	624.97	116.54	624.97	116.54
VANO 16	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	719.90	85.42	719.90	85.42	624.97	116.54	624.97	116.54
VANO 16	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	617.86	146.30	617.86	146.30	551.66	173.79	551.66	173.79
VANO 16	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	522.34	203.30	522.34	203.30	483.04	227.38	483.04	227.38
VANO 16	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	433.33	256.41	433.33	256.41	419.09	277.32	419.09	277.32
VANO 16	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	350.82	305.63	350.82	305.63	359.82	323.61	359.82	323.61
VANO 16	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	350.82	305.63	350.82	305.63	359.82	323.61	359.82	323.61
VANO 16	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	274.83	350.98	274.83	350.98	305.23	366.24	305.23	366.24
VANO 16	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	205.35	392.43	205.35	392.43	255.31	405.22	255.31	405.22
VANO 16	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	142.39	430.00	142.39	430.00	210.08	440.55	210.08	440.55
VANO 16	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	85.93	463.68	85.93	463.68	169.52	472.22	169.52	472.22
VANO 16	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	85.93	463.68	85.93	463.68	169.52	472.22	169.52	472.22
VANO 16	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	37.87	492.36	37.87	492.36	134.99	499.18	134.99	499.18
VANO 16	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-3.67	517.15	-3.67	517.15	105.14	522.49	105.14	522.49
VANO 16	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-38.71	538.05	-38.71	538.05	79.97	542.15	79.97	542.15
VANO 16	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-67.23	555.07	-67.23	555.07	59.48	558.15	59.48	558.15
VANO 16	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-67.23	555.07	-67.23	555.07	59.48	558.15	59.48	558.15
VANO 16	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-89.24	568.20	-89.24	568.20	43.67	570.50	43.67	570.50
VANO 16	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-104.74	577.45	-104.74	577.45	32.54	579.20	32.54	579.20
VANO 16	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-113.73	582.81	-113.73	582.81	26.08	584.24	26.08	584.24
VANO 16	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-116.20	584.29	-116.20	584.29	24.30	585.63	24.30	585.63
VANO 16	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-116.20	584.29	-116.20	584.29	24.30	585.63	24.30	585.63
VANO 16	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-112.17	581.88	-112.17	581.88	27.20	583.36	27.20	583.36
VANO 16	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-101.62	575.59	-101.62	575.59	34.77	577.45	34.77	577.45
VANO 16	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-84.56	565.41	-84.56	565.41	47.03	567.88	47.03	567.88
VANO 16	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-60.99	551.35	-60.99	551.35	63.96	554.65	63.96	554.65
VANO 16	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-60.99	551.35	-60.99	551.35	63.96	554.65	63.96	554.65
VANO 16	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	-30.91	533.40	-30.91	533.40	85.57	537.78	85.57	537.78
VANO 16	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	5.68	511.57	5.68	511.57	111.86	517.25	111.86	517.25
VANO 16	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	48.79	485.85	48.79	485.85	142.83	493.06	142.83	493.06
VANO 16	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	98.40	456.24	98.40	456.24	178.48	465.23	178.48	465.23
VANO 16	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	98.40	456.24	98.40	456.24	178.48	465.23	178.48	465.23
VANO 16	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	154.53	422.75	154.53	422.75	218.80	433.74	218.80	433.74
VANO 16	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	217.17	385.38	217.17	385.38	263.80	398.59	263.80	398.59
VANO 16	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	286.32	344.12	286.32	344.12	313.48	359.79	313.48	359.79
VANO 16	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	361.98	298.98	361.98	298.98	367.84	317.34	367.84	317.34
VANO 16	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	361.98	298.98	361.98	298.98	367.84	317.34	367.84	317.34
VANO 16	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	444.16	249.94	444.16	249.94	426.87	271.24	426.87	271.24
VANO 16	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	532.85	197.03	532.85	197.03	490.59	221.48	490.59	221.48
VANO 16	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	628.04	140.23	628.04	140.23	558.98	168.07	558.98	168.07
VANO 16	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	729.75	79.54	729.75	79.54	632.05	111.01	632.05	111.01
VANO 16	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	729.75	79.54	729.75	79.54	632.05	111.01	632.05	111.01
VANO 16	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	837.97	14.97	837.97	14.97	709.79	50.30	709.79	50.30
VANO 16	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	952.71	-53.49	952.71	-53.49	792.22	-14.07	792.22	-14.07
VANO 16	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	822.61	-138.81	822.61	-138.81	879.32	-82.10	879.32	-82.10
VANO 16	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-586.17	0.00	0.00	914.39	-210.49	914.39	-210.49	971.10	-153.77	971.10	-153.77

	X	VANO 17 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 17	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	917.17	-196.77	917.17	-196.77	964.97	-148.98	964.97	-148.98
VANO 17	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	825.16	-124.91	825.16	-124.91	872.95	-77.12	872.95	-77.12
VANO 17	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	953.68	-37.82	953.68	-37.82	785.61	-8.91	785.61	-8.91
VANO 17	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	838.62	30.83	838.62	30.83	702.95	55.64	702.95	55.64
VANO 17	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	730.07	95.59	730.07	95.59	624.97	116.54	624.97	116.54
VANO 17	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	730.07	95.59	730.07	95.59	624.97	116.54	624.97	116.54
VANO 17	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	628.04	156.48	628.04	156.48	551.66	173.79	551.66	173.79
VANO 17	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	532.51	213.47	532.51	213.47	483.04	227.38	483.04	227.38
VANO 17	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	443.50	266.58	443.50	266.58	419.09	277.32	419.09	277.32
VANO 17	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	361.00	315.81	361.00	315.81	359.82	323.61	359.82	323.61
VANO 17	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	361.00	315.81	361.00	315.81	359.82	323.61	359.82	323.61
VANO 17	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	285.01	361.15	285.01	361.15	305.23	366.24	305.23	366.24
VANO 17	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	215.53	402.60	215.53	402.60	255.31	405.22	255.31	405.22
VANO 17	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	152.56	440.17	152.56	440.17	210.08	440.55	210.08	440.55
VANO 17	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	96.11	473.86	96.11	473.86	169.52	472.22	169.52	472.22
VANO 17	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	96.11	473.86	96.11	473.86	169.52	472.22	169.52	472.22
VANO 17	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	48.05	502.53	48.05	502.53	134.99	499.18	134.99	499.18
VANO 17	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	6.50	527.32	6.50	527.32	105.14	522.49	105.14	522.49
VANO 17	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-28.53	548.22	-28.53	548.22	79.97	542.15	79.97	542.15
VANO 17	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-57.06	565.24	-57.06	565.24	59.48	558.15	59.48	558.15
VANO 17	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-57.06	565.24	-57.06	565.24	59.48	558.15	59.48	558.15
VANO 17	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-79.07	578.38	-79.07	578.38	43.67	570.50	43.67	570.50
VANO 17	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-94.57	587.62	-94.57	587.62	32.54	579.20	32.54	579.20
VANO 17	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-103.56	592.99	-103.56	592.99	26.08	584.24	26.08	584.24
VANO 17	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-106.03	594.46	-106.03	594.46	24.30	585.63	24.30	585.63
VANO 17	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-106.03	594.46	-106.03	594.46	24.30	585.63	24.30	585.63
VANO 17	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-102.00	592.06	-102.00	592.06	27.20	583.36	27.20	583.36
VANO 17	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-91.45	585.76	-91.45	585.76	34.77	577.45	34.77	577.45
VANO 17	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-74.39	575.59	-74.39	575.59	47.03	567.88	47.03	567.88
VANO 17	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-50.82	561.52	-50.82	561.52	63.96	554.65	63.96	554.65
VANO 17	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-50.82	561.52	-50.82	561.52	63.96	554.65	63.96	554.65
VANO 17	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	-20.74	543.57	-20.74	543.57	85.57	537.78	85.57	537.78
VANO 17	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	15.85	521.74	15.85	521.74	111.86	517.25	111.86	517.25
VANO 17	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	58.96	496.02	58.96	496.02	142.83	493.06	142.83	493.06
VANO 17	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	108.58	466.42	108.58	466.42	178.48	465.23	178.48	465.23
VANO 17	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	108.58	466.42	108.58	466.42	178.48	465.23	178.48	465.23
VANO 17	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	164.70	432.93	164.70	432.93	218.80	433.74	218.80	433.74
VANO 17	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	227.34	395.55	227.34	395.55	263.80	398.59	263.80	398.59
VANO 17	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	296.49	354.29	296.49	354.29	313.48	359.79	313.48	359.79
VANO 17	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	372.16	309.15	372.16	309.15	367.84	317.34	367.84	317.34
VANO 17	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	372.16	309.15	372.16	309.15	367.84	317.34	367.84	317.34
VANO 17	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	454.33	260.12	454.33	260.12	426.87	271.24	426.87	271.24
VANO 17	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	543.02	207.20	543.02	207.20	490.59	221.48	490.59	221.48
VANO 17	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	638.22	150.40	638.22	150.40	558.98	168.07	558.98	168.07
VANO 17	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	739.93	89.72	739.93	89.72	632.05	111.01	632.05	111.01
VANO 17	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	739.93	89.72	739.93	89.72	632.05	111.01	632.05	111.01
VANO 17	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	848.15	25.14	848.15	25.14	709.79	50.30	709.79	50.30
VANO 17	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	962.88	-43.31	962.88	-43.31	792.22	-14.07	792.22	-14.07
VANO 17	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	831.53	-129.89	831.53	-129.89	879.32	-82.10	879.32	-82.10
VANO 17	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-493.98	0.00	0.00	923.31	-201.57	923.31	-201.57	971.10	-153.77	971.10	-153.77

	X	VANO 18 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 18	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	926.08	-187.86	926.08	-187.86	964.97	-148.98	964.97	-148.98
VANO 18	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	834.07	-116.00	834.07	-116.00	872.95	-77.12	872.95	-77.12
VANO 18	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	963.84	-27.66	963.84	-27.66	785.61	-8.91	785.61	-8.91
VANO 18	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	848.78	40.99	848.78	40.99	702.95	55.64	702.95	55.64
VANO 18	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	740.24	105.76	740.24	105.76	624.97	116.54	624.97	116.54
VANO 18	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	740.24	105.76	740.24	105.76	624.97	116.54	624.97	116.54
VANO 18	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	638.20	166.64	638.20	166.64	551.66	173.79	551.66	173.79
VANO 18	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	542.67	223.63	542.67	223.63	483.04	227.38	483.04	227.38
VANO 18	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	453.66	276.75	453.66	276.75	419.09	277.32	419.09	277.32
VANO 18	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	371.16	325.97	371.16	325.97	359.82	323.61	359.82	323.61
VANO 18	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	371.16	325.97	371.16	325.97	359.82	323.61	359.82	323.61
VANO 18	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	295.17	371.31	295.17	371.31	305.23	366.24	305.23	366.24
VANO 18	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	225.69	412.77	225.69	412.77	255.31	405.22	255.31	405.22
VANO 18	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	162.72	450.34	162.72	450.34	210.08	440.55	210.08	440.55
VANO 18	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	106.27	484.02	106.27	484.02	169.52	472.22	169.52	472.22
VANO 18	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	106.27	484.02	106.27	484.02	169.52	472.22	169.52	472.22
VANO 18	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	58.21	512.69	58.21	512.69	134.99	499.18	134.99	499.18
VANO 18	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	16.66	537.48	16.66	537.48	105.14	522.49	105.14	522.49
VANO 18	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-18.37	558.39	-18.37	558.39	79.97	542.15	79.97	542.15
VANO 18	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-46.89	575.41	-46.89	575.41	59.48	558.15	59.48	558.15
VANO 18	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-46.89	575.41	-46.89	575.41	59.48	558.15	59.48	558.15
VANO 18	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-68.90	588.54	-68.90	588.54	43.67	570.50	43.67	570.50
VANO 18	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-84.40	597.79	-84.40	597.79	32.54	579.20	32.54	579.20
VANO 18	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-93.39	603.15	-93.39	603.15	26.08	584.24	26.08	584.24
VANO 18	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-95.87	604.63	-95.87	604.63	24.30	585.63	24.30	585.63
VANO 18	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-95.87	604.63	-95.87	604.63	24.30	585.63	24.30	585.63
VANO 18	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-91.83	602.22	-91.83	602.22	27.20	583.36	27.20	583.36
VANO 18	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-81.29	595.93	-81.29	595.93	34.77	577.45	34.77	577.45
VANO 18	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-64.23	585.75	-64.23	585.75	47.03	567.88	47.03	567.88
VANO 18	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-40.66	571.69	-40.66	571.69	63.96	554.65	63.96	554.65
VANO 18	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-40.66	571.69	-40.66	571.69	63.96	554.65	63.96	554.65
VANO 18	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	-10.58	553.74	-10.58	553.74	85.57	537.78	85.57	537.78
VANO 18	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	26.02	531.90	26.02	531.90	111.86	517.25	111.86	517.25
VANO 18	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	69.12	506.18	69.12	506.18	142.83	493.06	142.83	493.06
VANO 18	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	118.74	476.58	118.74	476.58	178.48	465.23	178.48	465.23
VANO 18	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	118.74	476.58	118.74	476.58	178.48	465.23	178.48	465.23
VANO 18	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	174.87	443.09	174.87	443.09	218.80	433.74	218.80	433.74
VANO 18	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	237.51	405.72	237.51	405.72	263.80	398.59	263.80	398.59
VANO 18	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	306.66	364.46	306.66	364.46	313.48	359.79	313.48	359.79
VANO 18	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	382.32	319.31	382.32	319.31	367.84	317.34	367.84	317.34
VANO 18	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	382.32	319.31	382.32	319.31	367.84	317.34	367.84	317.34
VANO 18	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	464.50	270.28	464.50	270.28	426.87	271.24	426.87	271.24
VANO 18	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	553.18	217.37	553.18	217.37	490.59	221.48	490.59	221.48
VANO 18	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	648.38	160.56	648.38	160.56	558.98	168.07	558.98	168.07
VANO 18	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	750.09	99.88	750.09	99.88	632.05	111.01	632.05	111.01
VANO 18	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	750.09	99.88	750.09	99.88	632.05	111.01	632.05	111.01
VANO 18	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	858.31	35.31	858.31	35.31	709.79	50.30	709.79	50.30
VANO 18	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	973.04	-33.15	973.04	-33.15	792.22	-14.07	792.22	-14.07
VANO 18	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	840.44	-120.98	840.44	-120.98	879.32	-82.10	879.32	-82.10
VANO 18	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-401.88	0.00	0.00	932.22	-192.66	932.22	-192.66	971.10	-153.77	971.10	-153.77

	X	VANO 19 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 19	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	935.02	-178.92	935.02	-178.92	964.97	-148.98	964.97	-148.98
VANO 19	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	843.01	-107.06	843.01	-107.06	872.95	-77.12	872.95	-77.12
VANO 19	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	974.04	-17.47	974.04	-17.47	785.61	-8.91	785.61	-8.91
VANO 19	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	858.98	51.19	858.98	51.19	702.95	55.64	702.95	55.64
VANO 19	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	750.43	115.95	750.43	115.95	624.97	116.54	624.97	116.54
VANO 19	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	750.43	115.95	750.43	115.95	624.97	116.54	624.97	116.54
VANO 19	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	648.39	176.83	648.39	176.83	551.66	173.79	551.66	173.79
VANO 19	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	552.87	233.83	552.87	233.83	483.04	227.38	483.04	227.38
VANO 19	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	463.86	286.94	463.86	286.94	419.09	277.32	419.09	277.32
VANO 19	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	381.35	336.17	381.35	336.17	359.82	323.61	359.82	323.61
VANO 19	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	381.35	336.17	381.35	336.17	359.82	323.61	359.82	323.61
VANO 19	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	305.36	381.51	305.36	381.51	305.23	366.24	305.23	366.24
VANO 19	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	235.89	422.96	235.89	422.96	255.31	405.22	255.31	405.22
VANO 19	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	172.92	460.53	172.92	460.53	210.08	440.55	210.08	440.55
VANO 19	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	116.46	494.22	116.46	494.22	169.52	472.22	169.52	472.22
VANO 19	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	116.46	494.22	116.46	494.22	169.52	472.22	169.52	472.22
VANO 19	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	68.41	522.89	68.41	522.89	134.99	499.18	134.99	499.18
VANO 19	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	26.86	547.68	26.86	547.68	105.14	522.49	105.14	522.49
VANO 19	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-8.17	568.58	-8.17	568.58	79.97	542.15	79.97	542.15
VANO 19	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-36.70	585.60	-36.70	585.60	59.48	558.15	59.48	558.15
VANO 19	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-36.70	585.60	-36.70	585.60	59.48	558.15	59.48	558.15
VANO 19	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-58.71	598.73	-58.71	598.73	43.67	570.50	43.67	570.50
VANO 19	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-74.21	607.98	-74.21	607.98	32.54	579.20	32.54	579.20
VANO 19	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-83.20	613.35	-83.20	613.35	26.08	584.24	26.08	584.24
VANO 19	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-85.67	614.82	-85.67	614.82	24.30	585.63	24.30	585.63
VANO 19	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-85.67	614.82	-85.67	614.82	24.30	585.63	24.30	585.63
VANO 19	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-81.64	612.42	-81.64	612.42	27.20	583.36	27.20	583.36
VANO 19	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-71.09	606.12	-71.09	606.12	34.77	577.45	34.77	577.45
VANO 19	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-54.03	595.94	-54.03	595.94	47.03	567.88	47.03	567.88
VANO 19	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-30.46	581.88	-30.46	581.88	63.96	554.65	63.96	554.65
VANO 19	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-30.46	581.88	-30.46	581.88	63.96	554.65	63.96	554.65
VANO 19	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	-0.38	563.93	-0.38	563.93	85.57	537.78	85.57	537.78
VANO 19	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	36.21	542.10	36.21	542.10	111.86	517.25	111.86	517.25
VANO 19	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	79.32	516.38	79.32	516.38	142.83	493.06	142.83	493.06
VANO 19	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	128.93	486.78	128.93	486.78	178.48	465.23	178.48	465.23
VANO 19	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	128.93	486.78	128.93	486.78	178.48	465.23	178.48	465.23
VANO 19	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	185.06	453.29	185.06	453.29	218.80	433.74	218.80	433.74
VANO 19	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	247.70	415.91	247.70	415.91	263.80	398.59	263.80	398.59
VANO 19	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	316.85	374.65	316.85	374.65	313.48	359.79	313.48	359.79
VANO 19	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	392.52	329.51	392.52	329.51	367.84	317.34	367.84	317.34
VANO 19	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	392.52	329.51	392.52	329.51	367.84	317.34	367.84	317.34
VANO 19	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	474.69	280.48	474.69	280.48	426.87	271.24	426.87	271.24
VANO 19	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	563.38	227.56	563.38	227.56	490.59	221.48	490.59	221.48
VANO 19	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	658.58	170.76	658.58	170.76	558.98	168.07	558.98	168.07
VANO 19	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	760.28	110.07	760.28	110.07	632.05	111.01	632.05	111.01
VANO 19	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	760.28	110.07	760.28	110.07	632.05	111.01	632.05	111.01
VANO 19	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	868.51	45.50	868.51	45.50	709.79	50.30	709.79	50.30
VANO 19	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	983.24	-22.95	983.24	-22.95	792.22	-14.07	792.22	-14.07
VANO 19	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	849.38	-112.04	849.38	-112.04	879.32	-82.10	879.32	-82.10
VANO 19	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-309.49	0.00	0.00	941.16	-183.72	941.16	-183.72	971.10	-153.77	971.10	-153.77

	X	VANO 20 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 20	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	943.92	-170.02	943.92	-170.02	964.97	-148.98	964.97	-148.98
VANO 20	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	851.90	-98.16	851.90	-98.16	872.95	-77.12	872.95	-77.12
VANO 20	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	984.19	-7.32	984.19	-7.32	785.61	-8.91	785.61	-8.91
VANO 20	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	869.13	61.34	869.13	61.34	702.95	55.64	702.95	55.64
VANO 20	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	760.58	126.10	760.58	126.10	624.97	116.54	624.97	116.54
VANO 20	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	760.58	126.10	760.58	126.10	624.97	116.54	624.97	116.54
VANO 20	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	658.54	186.98	658.54	186.98	551.66	173.79	551.66	173.79
VANO 20	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	563.02	243.98	563.02	243.98	483.04	227.38	483.04	227.38
VANO 20	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	474.01	297.09	474.01	297.09	419.09	277.32	419.09	277.32
VANO 20	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	391.50	346.32	391.50	346.32	359.82	323.61	359.82	323.61
VANO 20	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	391.50	346.32	391.50	346.32	359.82	323.61	359.82	323.61
VANO 20	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	315.51	391.66	315.51	391.66	305.23	366.24	305.23	366.24
VANO 20	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	246.04	433.11	246.04	433.11	255.31	405.22	255.31	405.22
VANO 20	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	183.07	470.68	183.07	470.68	210.08	440.55	210.08	440.55
VANO 20	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	126.61	504.37	126.61	504.37	169.52	472.22	169.52	472.22
VANO 20	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	126.61	504.37	126.61	504.37	169.52	472.22	169.52	472.22
VANO 20	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	78.56	533.04	78.56	533.04	134.99	499.18	134.99	499.18
VANO 20	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	37.01	557.83	37.01	557.83	105.14	522.49	105.14	522.49
VANO 20	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	1.97	578.73	1.97	578.73	79.97	542.15	79.97	542.15
VANO 20	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-26.55	595.75	-26.55	595.75	59.48	558.15	59.48	558.15
VANO 20	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-26.55	595.75	-26.55	595.75	59.48	558.15	59.48	558.15
VANO 20	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-48.56	608.88	-48.56	608.88	43.67	570.50	43.67	570.50
VANO 20	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-64.06	618.13	-64.06	618.13	32.54	579.20	32.54	579.20
VANO 20	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-73.05	623.50	-73.05	623.50	26.08	584.24	26.08	584.24
VANO 20	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-75.52	624.97	-75.52	624.97	24.30	585.63	24.30	585.63
VANO 20	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-75.52	624.97	-75.52	624.97	24.30	585.63	24.30	585.63
VANO 20	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-71.49	622.57	-71.49	622.57	27.20	583.36	27.20	583.36
VANO 20	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-60.94	616.27	-60.94	616.27	34.77	577.45	34.77	577.45
VANO 20	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-43.88	606.09	-43.88	606.09	47.03	567.88	47.03	567.88
VANO 20	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-20.31	592.03	-20.31	592.03	63.96	554.65	63.96	554.65
VANO 20	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	-20.31	592.03	-20.31	592.03	63.96	554.65	63.96	554.65
VANO 20	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	9.77	574.08	9.77	574.08	85.57	537.78	85.57	537.78
VANO 20	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	46.36	552.25	46.36	552.25	111.86	517.25	111.86	517.25
VANO 20	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	89.47	526.53	89.47	526.53	142.83	493.06	142.83	493.06
VANO 20	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	139.08	496.93	139.08	496.93	178.48	465.23	178.48	465.23
VANO 20	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	139.08	496.93	139.08	496.93	178.48	465.23	178.48	465.23
VANO 20	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	195.21	463.44	195.21	463.44	218.80	433.74	218.80	433.74
VANO 20	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	257.85	426.06	257.85	426.06	263.80	398.59	263.80	398.59
VANO 20	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	327.00	384.80	327.00	384.80	313.48	359.79	313.48	359.79
VANO 20	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	402.67	339.66	402.67	339.66	367.84	317.34	367.84	317.34
VANO 20	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	402.67	339.66	402.67	339.66	367.84	317.34	367.84	317.34
VANO 20	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	484.84	290.63	484.84	290.63	426.87	271.24	426.87	271.24
VANO 20	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	573.53	237.71	573.53	237.71	490.59	221.48	490.59	221.48
VANO 20	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	668.73	180.91	668.73	180.91	558.98	168.07	558.98	168.07
VANO 20	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	770.43	120.22	770.43	120.22	632.05	111.01	632.05	111.01
VANO 20	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	770.43	120.22	770.43	120.22	632.05	111.01	632.05	111.01
VANO 20	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	878.66	55.65	878.66	55.65	709.79	50.30	709.79	50.30
VANO 20	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	993.39	-12.80	993.39	-12.80	792.22	-14.07	792.22	-14.07
VANO 20	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	858.28	-103.14	858.28	-103.14	879.32	-82.10	879.32	-82.10
VANO 20	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-217.51	0.00	0.00	950.06	-174.82	950.06	-174.82	971.10	-153.77	971.10	-153.77

	X	VANO 21 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 21	0.00	-6953.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	952.87	-161.08	952.87	-161.08	964.97	-148.98	964.97	-148.98
VANO 21	1.20	-5930.49	0.00	0.00	0.00	0.00	0.00	1.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	860.85	-89.22	860.85	-89.22	872.95	-77.12	872.95	-77.12
VANO 21	2.40	-4959.55	0.00	0.00	0.00	0.00	0.00	2.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	994.39	2.89	994.39	2.89	785.61	-8.91	785.61	-8.91
VANO 21	3.60	-4040.62	0.00	0.00	0.00	0.00	0.00	3.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	879.33	71.54	879.33	71.54	702.95	55.64	702.95	55.64
VANO 21	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	770.79	136.31	770.79	136.31	624.97	116.54	624.97	116.54
VANO 21	4.80	-3173.69	0.00	0.00	0.00	0.00	0.00	4.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	770.79	136.31	770.79	136.31	624.97	116.54	624.97	116.54
VANO 21	6.00	-2358.77	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	668.75	197.19	668.75	197.19	551.66	173.79	551.66	173.79
VANO 21	7.20	-1595.85	0.00	0.00	0.00	0.00	0.00	7.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	573.22	254.18	573.22	254.18	483.04	227.38	483.04	227.38
VANO 21	8.40	-884.94	0.00	0.00	0.00	0.00	0.00	8.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	484.21	307.29	484.21	307.29	419.09	277.32	419.09	277.32
VANO 21	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	401.71	356.52	401.71	356.52	359.82	323.61	359.82	323.61
VANO 21	9.60	-226.03	0.00	0.00	0.00	0.00	0.00	9.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	401.71	356.52	401.71	356.52	359.82	323.61	359.82	323.61
VANO 21	10.80	380.87	0.00	0.00	0.00	0.00	0.00	10.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	325.72	401.86	325.72	401.86	305.23	366.24	305.23	366.24
VANO 21	12.00	935.76	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	256.24	443.32	256.24	443.32	255.31	405.22	255.31	405.22
VANO 21	13.20	1438.65	0.00	0.00	0.00	0.00	0.00	13.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	193.27	480.88	193.27	480.88	210.08	440.55	210.08	440.55
VANO 21	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	136.82	514.57	136.82	514.57	169.52	472.22	169.52	472.22
VANO 21	14.40	1889.53	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	136.82	514.57	136.82	514.57	169.52	472.22	169.52	472.22
VANO 21	15.60	2273.35	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	88.76	543.24	88.76	543.24	134.99	499.18	134.99	499.18
VANO 21	16.80	2605.16	0.00	0.00	0.00	0.00	0.00	16.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	47.21	568.03	47.21	568.03	105.14	522.49	105.14	522.49
VANO 21	18.00	2884.97	0.00	0.00	0.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	12.18	588.94	12.18	588.94	79.97	542.15	79.97	542.15
VANO 21	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-16.34	605.95	-16.34	605.95	59.48	558.15	59.48	558.15
VANO 21	19.20	3112.77	0.00	0.00	0.00	0.00	0.00	19.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-16.34	605.95	-16.34	605.95	59.48	558.15	59.48	558.15
VANO 21	20.40	3288.57	0.00	0.00	0.00	0.00	0.00	20.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-38.36	619.09	-38.36	619.09	43.67	570.50	43.67	570.50
VANO 21	21.60	3412.35	0.00	0.00	0.00	0.00	0.00	21.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-53.86	628.34	-53.86	628.34	32.54	579.20	32.54	579.20
VANO 21	22.80	3484.14	0.00	0.00	0.00	0.00	0.00	22.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-62.84	633.70	-62.84	633.70	26.08	584.24	26.08	584.24
VANO 21	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-65.32	635.18	-65.32	635.18	24.30	585.63	24.30	585.63
VANO 21	24.00	3503.92	0.00	0.00	0.00	0.00	0.00	24.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-65.32	635.18	-65.32	635.18	24.30	585.63	24.30	585.63
VANO 21	25.20	3471.69	0.00	0.00	0.00	0.00	0.00	25.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-61.28	632.77	-61.28	632.77	27.20	583.36	27.20	583.36
VANO 21	26.40	3387.46	0.00	0.00	0.00	0.00	0.00	26.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-50.74	626.48	-50.74	626.48	34.77	577.45	34.77	577.45
VANO 21	27.60	3251.22	0.00	0.00	0.00	0.00	0.00	27.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-33.68	616.30	-33.68	616.30	47.03	567.88	47.03	567.88
VANO 21	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-10.11	602.23	-10.11	602.23	63.96	554.65	63.96	554.65
VANO 21	28.80	3062.98	0.00	0.00	0.00	0.00	0.00	28.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	-10.11	602.23	-10.11	602.23	63.96	554.65	63.96	554.65
VANO 21	30.00	2822.73	0.00	0.00	0.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	19.97	584.29	19.97	584.29	85.57	537.78	85.57	537.78
VANO 21	31.20	2530.47	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	56.57	562.45	56.57	562.45	111.86	517.25	111.86	517.25
VANO 21	32.40	2186.21	0.00	0.00	0.00	0.00	0.00	32.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	99.67	536.73	99.67	536.73	142.83	493.06	142.83	493.06
VANO 21	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	149.29	507.13	149.29	507.13	178.48	465.23	178.48	465.23
VANO 21	33.60	1789.94	0.00	0.00	0.00	0.00	0.00	33.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	149.29	507.13	149.29	507.13	178.48	465.23	178.48	465.23
VANO 21	34.80	1341.67	0.00	0.00	0.00	0.00	0.00	34.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	205.42	473.64	205.42	473.64	218.80	433.74	218.80	433.74
VANO 21	36.00	841.39	0.00	0.00	0.00	0.00	0.00	36.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	268.06	436.27	268.06	436.27	263.80	398.59	263.80	398.59
VANO 21	37.20	289.11	0.00	0.00	0.00	0.00	0.00	37.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	337.21	395.01	337.21	395.01	313.48	359.79	313.48	359.79
VANO 21	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	412.87	349.86	412.87	349.86	367.84	317.34	367.84	317.34
VANO 21	38.40	-315.18	0.00	0.00	0.00	0.00	0.00	38.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	412.87	349.86	412.87	349.86	367.84	317.34	367.84	317.34
VANO 21	39.60	-971.47	0.00	0.00	0.00	0.00	0.00	39.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	495.04	300.83	495.04	300.83	426.87	271.24	426.87	271.24
VANO 21	40.80	-1679.77	0.00	0.00	0.00	0.00	0.00	40.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	583.73	247.91	583.73	247.91	490.59	221.48	490.59	221.48
VANO 21	42.00	-2440.08	0.00	0.00	0.00	0.00	0.00	42.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	678.93	191.11	678.93	191.11	558.98	168.07	558.98	168.07
VANO 21	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	780.64	130.43	780.64	130.43	632.05	111.01	632.05	111.01
VANO 21	43.20	-3252.39	0.00	0.00	0.00	0.00	0.00	43.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	780.64	130.43	780.64	130.43	632.05	111.01	632.05	111.01
VANO 21	44.40	-4116.70	0.00	0.00	0.00	0.00	0.00	44.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	888.86	65.86	888.86	65.86	709.79	50.30	709.79	50.30
VANO 21	45.60	-5033.03	0.00	0.00	0.00	0.00	0.00	45.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	1003.59	-2.60	1003.59	-2.60	792.22	-14.07	792.22	-14.07
VANO 21	46.80	-6001.35	0.00	0.00	0.00	0.00	0.00	46.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	867.23	-94.20	867.23	-94.20	879.32	-82.10	879.32	-82.10
VANO 21	48.00	-7021.69	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-125.04	0.00	0.00	959.01	-165.87	959.01	-165.87	971.10	-153.77	971.10	-153.77

	X	VANO 22 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 22	0.00	-6859.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	953.38	-145.45	953.38	-145.45	956.48	-142.35	956.48	-142.35
VANO 22	0.98	-6015.19	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	877.47	-86.17	877.47	-86.17	880.57	-83.07	880.57	-83.07
VANO 22	1.95	-5205.59	0.00	0.00	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	1035.46	-5.23	1035.46	-5.23	807.74	-26.20	807.74	-26.20
VANO 22	2.93	-4430.32	0.00	0.00	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	938.39	52.69	938.39	52.69	738.00	28.26	738.00	28.26
VANO 22	3.90	-3689.38	0.00	0.00	0.00	0.00	0.00	3.90	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	845.62	108.04	845.62	108.04	671.35	80.31	671.35	80.31
VANO 22	3.90	-3689.38	0.00	0.00	0.00	0.00	0.00	3.90	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	845.62	108.04	845.62	108.04	671.35	80.31	671.35	80.31
VANO 22	4.88	-2982.77	0.00	0.00	0.00	0.00	0.00	4.88	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	757.14	160.83	757.14	160.83	607.79	129.95	607.79	129.95
VANO 22	5.85	-2310.50	0.00	0.00	0.00	0.00	0.00	5.85	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	672.97	211.06	672.97	211.06	547.32	177.18	547.32	177.18
VANO 22	6.83	-1672.56	0.00	0.00	0.00	0.00	0.00	6.83	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	593.09	258.72	593.09	258.72	489.94	221.99	489.94	221.99
VANO 22	7.80	-1068.95	0.00	0.00	0.00	0.00	0.00	7.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	517.51	303.81	517.51	303.81	435.64	264.39	435.64	264.39
VANO 22	7.80	-1068.95	0.00	0.00	0.00	0.00	0.00	7.80	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	517.51	303.81	517.51	303.81	435.64	264.39	435.64	264.39
VANO 22	8.78	-499.67	0.00	0.00	0.00	0.00	0.00	8.78	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	446.23	346.34	446.23	346.34	384.43	304.38	384.43	304.38
VANO 22	9.75	35.28	0.00	0.00	0.00	0.00	0.00	9.75	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	379.25	386.30	379.25	386.30	336.31	341.96	336.31	341.96
VANO 22	10.73	535.90	0.00	0.00	0.00	0.00	0.00	10.73	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	316.57	423.70	316.57	423.70	291.28	377.13	291.28	377.13
VANO 22	11.70	1002.18	0.00	0.00	0.00	0.00	0.00	11.70	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	258.19	458.54	258.19	458.54	249.34	409.89	249.34	409.89
VANO 22	11.70	1002.18	0.00	0.00	0.00	0.00	0.00	11.70	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	258.19	458.54	258.19	458.54	249.34	409.89	249.34	409.89
VANO 22	12.68	1434.13	0.00	0.00	0.00	0.00	0.00	12.68	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	204.10	490.81	204.10	490.81	210.48	440.23	210.48	440.23
VANO 22	13.65	1831.75	0.00	0.00	0.00	0.00	0.00	13.65	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	154.31	520.52	154.31	520.52	174.71	468.16	174.71	468.16
VANO 22	14.63	2195.04	0.00	0.00	0.00	0.00	0.00	14.63	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	108.83	547.66	108.83	547.66	142.04	493.68	142.04	493.68
VANO 22	15.60	2524.00	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	67.64	572.23	67.64	572.23	112.45	516.79	112.45	516.79
VANO 22	15.60	2524.00	0.00	0.00	0.00	0.00	0.00	15.60	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	67.64	572.23	67.64	572.23	112.45	516.79	112.45	516.79
VANO 22	16.58	2818.62	0.00	0.00	0.00	0.00	0.00	16.58	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	30.75	594.24	30.75	594.24	85.94	537.49	85.94	537.49
VANO 22	17.55	3078.92	0.00	0.00	0.00	0.00	0.00	17.55	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-1.84	613.69	-1.84	613.69	62.53	555.77	62.53	555.77
VANO 22	18.53	3304.88	0.00	0.00	0.00	0.00	0.00	18.53	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-30.14	630.57	-30.14	630.57	42.20	571.65	42.20	571.65
VANO 22	19.50	3496.51	0.00	0.00	0.00	0.00	0.00	19.50	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-54.13	644.89	-54.13	644.89	24.97	585.11	24.97	585.11
VANO 22	19.50	3496.51	0.00	0.00	0.00	0.00	0.00	19.50	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-54.13	644.89	-54.13	644.89	24.97	585.11	24.97	585.11
VANO 22	20.48	3653.80	0.00	0.00	0.00	0.00	0.00	20.48	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-73.82	656.64	-73.82	656.64	10.82	596.16	10.82	596.16
VANO 22	21.45	3776.77	0.00	0.00	0.00	0.00	0.00	21.45	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-89.22	665.82	-89.22	665.82	-0.25	604.80	-0.25	604.80
VANO 22	22.43	3865.40	0.00	0.00	0.00	0.00	0.00	22.43	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-100.32	672.45	-100.32	672.45	-8.22	611.02	-8.22	611.02
VANO 22	23.40	3919.71	0.00	0.00	0.00	0.00	0.00	23.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-107.12	676.50	-107.12	676.50	-13.10	614.84	-13.10	614.84
VANO 22	23.40	3919.71	0.00	0.00	0.00	0.00	0.00	23.40	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-107.12	676.50	-107.12	676.50	-13.10	614.84	-13.10	614.84
VANO 22	24.38	3939.68	0.00	0.00	0.00	0.00	0.00	24.38	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-109.62	677.99	-109.62	677.99	-14.90	616.24	-14.90	616.24
VANO 22	25.35	3925.31	0.00	0.00	0.00	0.00	0.00	25.35	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-107.82	676.92	-107.82	676.92	-13.61	615.23	-13.61	615.23
VANO 22	26.33	3876.62	0.00	0.00	0.00	0.00	0.00	26.33	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-101.72	673.28	-101.72	673.28	-9.23	611.81	-9.23	611.81
VANO 22	27.30	3793.60	0.00	0.00	0.00	0.00	0.00	27.30	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-91.33	667.08	-91.33	667.08	-1.76	605.98	-1.76	605.98
VANO 22	27.30	3793.60	0.00	0.00	0.00	0.00	0.00	27.30	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-91.33	667.08	-91.33	667.08	-1.76	605.98	-1.76	605.98
VANO 22	28.28	3664.00	0.00	0.00	0.00	0.00	0.00	28.28	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-75.10	657.40	-75.10	657.40	9.90	596.87	9.90	596.87
VANO 22	29.25	3500.08	0.00	0.00	0.00	0.00	0.00	29.25	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-54.58	645.15	-54.58	645.15	24.64	585.36	24.64	585.36
VANO 22	30.23	3301.82	0.00	0.00	0.00	0.00	0.00	30.23	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-29.75	630.34	-29.75	630.34	42.48	571.43	42.48	571.43
VANO 22	31.20	3069.23	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-0.63	612.96	-0.63	612.96	63.40	555.09	63.40	555.09
VANO 22	31.20	3069.23	0.00	0.00	0.00	0.00	0.00	31.20	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	-0.63	612.96	-0.63	612.96	63.40	555.09	63.40	555.09
VANO 22	32.18	2802.31	0.00	0.00	0.00	0.00	0.00	32.18	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	32.79	593.02	32.79	593.02	87.41	536.34	87.41	536.34
VANO 22	33.15	2501.06	0.00	0.00	0.00	0.00	0.00	33.15	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	70.51	570.52	70.51	570.52	114.51	515.18	114.51	515.18
VANO 22	34.13	2165.48	0.00	0.00	0.00	0.00	0.00	34.13	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	112.53	545.45	112.53	545.45	144.70	491.61	144.70	491.61
VANO 22	35.10	1795.56	0.00	0.00	0.00	0.00	0.00	35.1	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	158.85	517.81	158.85	517.81	177.97	465.62	177.97	465.62
VANO 22	35.10	1795.56	0.00	0.00	0.00	0.00	0.00	35.1	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	158.85	517.81	158.85	517.81	177.97	465.62	177.97	465.62
VANO 22	36.08	1391.31	0.00	0.00	0.00	0.00	0.00	36.075	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	209.46	487.61	209.46	487.61	214.33	437.22	214.33	437.22
VANO 22	37.05	952.73	0.00	0.00	0.00	0.00	0.00	37.05	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	264.38	454.85	264.38	454.85	253.78	406.41	253.78	406.41
VANO 22	38.03	479.82	0.00	0.00	0.00	0.00	0.00	38.025	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	293.22	370.09	293.22	370.09	296.32	373.19	296.32	373.19
VANO 22	39.00	-27.42	0.00	0.00	0.00	0.00	0.00	39	0.00	0.00	0.00	0.00	4093.74	-584.82	-32.04	0.00	0.00	338.85	334.46	338.85	334.46	341.95	337.56	341.95	337.56

RESUMEN DE TENSIONES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
A	9.062	10.336
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246
Ws	13.385	14.235
Wi	7.987	11.117

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDA	0.9	0.9	0.9

	X	CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE
		1	1	1	0.6	0.6	0.6
VANO 1	0.00	-27.42	0.00	0.00	0.00	0.00	0.00
VANO 1	0.98	479.82	473.44	-69.48	27.26	-1.08	17.61
VANO 1	1.95	952.73	919.80	-138.97	54.52	-2.15	35.23
VANO 1	2.93	1391.31	1339.09	-208.45	81.77	-3.23	52.84
VANO 1	3.90	1795.56	1731.32	-277.94	109.03	-4.31	70.46
VANO 1	3.90	1795.56	1731.32	-277.94	109.03	-4.31	70.46
VANO 1	4.88	2165.48	2096.48	-347.42	136.29	-5.38	88.07
VANO 1	5.85	2501.06	2434.59	-416.90	163.55	-6.46	105.69
VANO 1	6.83	2802.31	2745.64	-486.39	190.81	-7.54	123.30
VANO 1	7.80	3069.23	3029.65	-555.87	218.07	-8.62	140.92
VANO 1	7.80	3069.23	3029.65	-555.87	218.07	-8.62	140.92
VANO 1	8.78	3301.82	3286.61	-625.36	245.32	-9.69	158.53
VANO 1	9.75	3500.08	3516.54	-694.84	272.58	-10.77	176.15
VANO 1	10.73	3664.00	3719.44	-764.32	299.84	-11.85	193.76
VANO 1	11.70	3793.60	3895.31	-833.81	327.10	-12.92	211.38
VANO 1	11.70	3793.60	3695.31	-833.81	327.10	-12.92	211.38
VANO 1	12.68	3876.62	4044.18	-903.29	354.36	-14.00	228.99
VANO 1	13.65	3925.31	4166.03	-972.78	381.62	-15.08	246.61
VANO 1	14.63	3939.68	4260.89	-1042.26	408.87	-16.15	264.22
VANO 1	15.60	3919.71	4328.75	-1111.75	436.13	-17.23	281.84
VANO 1	15.60	3919.71	4328.75	-1111.75	436.13	-17.23	281.84
VANO 1	16.58	3865.40	4369.64	-1181.23	463.39	-18.31	299.45
VANO 1	17.55	3776.77	4383.56	-1250.71	490.65	-19.39	317.07
VANO 1	18.53	3653.80	4370.53	-1320.20	517.91	-20.46	334.68
VANO 1	19.50	3496.51	4330.55	-1408.15	545.17	-21.54	352.30
VANO 1	19.50	3496.51	4330.55	-1408.15	545.17	-21.54	352.30
VANO 1	20.48	3304.88	4263.65	-1501.52	572.42	-22.62	369.91
VANO 1	21.45	3078.92	4169.84	-1597.07	599.68	-23.69	387.53
VANO 1	22.43	2818.62	4049.14	-1694.81	626.94	-24.77	405.14
VANO 1	23.40	2524.00	3901.57	-1794.73	654.20	-25.85	427.76
VANO 1	23.40	2524.00	3901.57	-1794.73	654.20	-25.85	422.76
VANO 1	24.38	2195.04	3727.16	-1896.84	681.46	-26.92	440.37
VANO 1	25.35	1831.75	3525.92	-2001.14	708.71	-28.00	457.99
VANO 1	26.33	1434.13	3297.91	-2107.62	735.97	-29.08	475.60
VANO 1	27.30	1002.18	3043.14	-2216.29	763.23	-30.16	493.22
VANO 1	27.30	1002.18	3043.14	-2216.29	763.23	-30.16	493.22
VANO 1	28.28	535.90	2761.67	-2327.15	790.49	-31.23	510.83
VANO 1	29.25	35.28	2453.54	-2440.19	817.75	-32.31	528.45
VANO 1	30.23	-499.67	2132.30	-2568.91	845.01	-33.39	546.06
VANO 1	31.20	-1068.95	1786.72	-2701.98	872.26	-34.46	563.68
VANO 1	31.20	-1068.95	1786.72	-2701.98	872.26	-34.46	563.68
VANO 1	32.18	-1672.56	1432.19	-2854.11	899.52	-35.54	581.29
VANO 1	33.15	-2310.50	1144.49	-3076.77	926.78	-36.62	598.91
VANO 1	34.13	-2982.77	968.70	-3369.37	954.04	-37.69	616.52
VANO 1	35.10	-3689.38	824.27	-3726.42	981.30	-38.77	634.14
VANO 1	35.10	-3689.38	824.27	-3726.42	981.30	-38.77	634.14
VANO 1	36.08	-4430.32	713.09	-4142.98	1008.56	-39.85	651.75
VANO 1	37.05	-5205.59	700.27	-4614.60	1035.81	-40.93	669.37
VANO 1	38.03	-6015.19	701.84	-5137.30	1063.07	-42.00	686.98
VANO 1	39.00	-6859.13	712.94	-5707.47	1090.33	-43.08	704.60
VANO 2	0.00	-6859.13	712.94	-5707.47	1090.33	-43.08	704.60
VANO 2	1.20	-5835.39	635.44	-4877.72	1046.12	-37.95	700.38
VANO 2	2.40	-4863.66	570.51	-4178.10	1001.90	-32.82	696.16
VANO 2	3.60	-3943.94	601.48	-3568.13	957.69	-27.69	691.95
VANO 2	4.80	-3076.22	696.98	-3034.11	913.47	-22.55	687.73
VANO 2	4.80	-3076.22	696.98	-3034.11	913.47	-22.55	687.73
VANO 2	6.00	-2260.51	826.25	-2579.62	869.26	-17.42	683.52
VANO 2	7.20	-1496.81	1018.62	-2206.77	825.05	-12.29	679.30
VANO 2	8.40	-785.11	1303.81	-1914.89	780.83	-7.16	675.08
VANO 2	9.60	-125.41	1600.11	-1698.43	736.62	-2.03	670.87
VANO 2	9.60	-125.41	1600.11	-1698.43	736.62	-2.03	670.87
VANO 2	10.80	482.28	2016.97	-1621.44	692.41	-11.44	666.65
VANO 2	12.00	1037.96	2463.50	-1601.78	648.19	-32.37	662.44
VANO 2	13.20	1541.64	2871.28	-1586.30	603.98	-53.30	658.22
VANO 2	14.40	1993.31	3239.47	-1574.28	559.76	-74.24	654.00
VANO 2	14.40	1993.31	3239.47	-1574.28	559.76	-74.24	654.00
VANO 2	15.60	2377.92	3567.86	-1565.63	515.55	-95.17	649.79
VANO 2	16.80	2710.52	3856.36	-1560.30	471.34	-116.10	645.57
VANO 2	18.00	2991.11	4104.90	-1558.30	427.12	-137.03	641.36
VANO 2	19.20	3219.70	4313.44	-1559.62	382.91	-157.96	637.14
VANO 2	19.20	3219.70	4313.44	-1559.62	382.91	-157.96	637.14
VANO 2	20.40	3393.29	4481.93	-1564.25	338.70	-178.89	632.92
VANO 2	21.60	3520.87	4610.34	-1572.21	294.48	-199.82	628.71
VANO 2	22.80	3593.44	4698.66	-1586.60	250.27	-220.75	624.49
VANO 2	24.00	3614.01	4746.87	-1627.77	206.05	-241.68	620.28
VANO 2	24.00	3614.01	4746.87	-1627.77	206.05	-241.68	620.28
VANO 2	25.20	3582.57	4754.97	-1672.25	161.84	-262.61	616.06
VANO 2	26.40	3499.13	4722.96	-1720.04	117.63	-283.54	611.84
VANO 2	27.60	3363.68	4650.84	-1771.15	74.94	-304.47	607.63
VANO 2	28.80	3176.22	4538.63	-1825.58	80.07	-325.40	603.41
VANO 2	28.80	3176.22	4538.63	-1825.58	80.07	-325.40	603.41
VANO 2	30.00	2936.76	4386.36	-1883.32	85.20	-346.33	599.20
VANO 2	31.20	2645.29	4194.05	-1944.39	90.33	-367.26	594.98
VANO 2	32.40	2301.82	3961.74	-2008.77	95.46	-388.19	590.76
VANO 2	33.60	1906.34	3689.50	-2076.50	100.60	-409.12	586.55
VANO 2	33.60	1906.34	3609.50	-2076.50	100.60	-409.12	586.55
VANO 2	34.80	1458.86	3377.40	-2147.58	105.73	-430.06	582.33
VANO 2	36.00	959.37	3025.62	-2222.11	110.86	-450.99	578.12
VANO 2	37.20	407.88	2634.76	-2300.58	115.99	-471.92	573.90
VANO 2	38.40	-195.62	2221.02	-2399.09	121.12	-492.85	569.69
VANO 2	38.40	-195.62	2221.02	-2399.09	121.12	-492.85	569.69
VANO 2	39.60	-851.13	1873.35	-2606.32	126.25	-513.78	565.47
VANO 2	40.80	-1558.64	1566.18	-2888.21	131.38	-534.71	561.25
VANO 2	42.00	-2318.15	1313.76	-3251.09	136.52	-555.64	557.04
VANO 2	43.20	-3129.68	1161.69	-3696.96	141.65	-576.57	552.82
VANO 2	43.20	-3129.68	1161.69	-3696.96	141.65	-576.57	552.82
VANO 2	44.40	-3993.20	1053.24	-4224.32	146.78	-597.50	548.61
VANO 2	45.60	-4908.74	1006.83	-4829.88	151.91	-618.43	544.39
VANO 2	46.80	-5876.27	1029.66	-5509.39	157.04	-639.36	540.17
VANO 2	48.00	-6895.82	1079.42	-6258.29	162.17	-678.22	535.96

MULTIPLICADOR(Perdidas x Coef.Seg)

	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO
		0.76	0.72	0.72	0.76	4093.74	Variable	-1980.55	-224.49	-642.86
VANO 1	0.00	1166.51	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	0.98	1058.59	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	1.95	801.57	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	2.93	544.56	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	3.90	287.54	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	3.90	287.54	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	4.88	30.52	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	5.85	-226.49	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	6.83	-483.51	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	7.80	-740.53	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	7.80	-740.53	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	8.78	-997.54	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	9.75	-1254.56	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	10.73	-1511.58	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	11.70	-1768.59	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	11.70	-1768.59	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	12.68	-2025.61	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	13.65	-2282.63	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	14.63	-2539.64	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	15.60	-2796.66	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	15.60	-2796.66	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	16.58	-2956.76	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	17.55	-2734.12	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	18.53	-2470.16	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	19.50	-2206.19	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	19.50	-2206.19	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	20.48	-1942.22	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	21.45	-1678.26	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	22.43	-1414.29	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	23.40	-1150.33	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	23.40	-1150.33	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	24.38	-886.36	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	25.35	-622.40	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	26.33	-358.43	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	27.30	-94.47	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	27.30	-94.47	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	28.28	169.50	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	29.25	433.47	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	30.23	697.43	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	31.20	961.40	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	31.20	961.40	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	32.18	1225.36	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	33.15	1489.33	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	34.13	1753.29	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	35.10	2017.26	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	35.10	2017.26	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	36.08	2281.23	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	37.05	2545.19	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	38.03	2809.16	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	39.00	2955.05	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 2	0.00	3691.06	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	1.20	3463.15	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	2.40	3069.78	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	3.60	2676.42	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	4.80	2283.05	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	4.80	2283.05	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	6.00	1889.69	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	7.20	1496.33	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	8.40	1102.96	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	9.60	709.60	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	9.60	709.60	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	10.80	316.23	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	12.00	-77.13	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	13.20	-470.50	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	14.40	-863.86	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	14.40	-863.86	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	15.60	-1257.22	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	16.80	-1650.59	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	18.00	-2043.95	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	19.20	-2437.32	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	19.20	-2437.32	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	20.40	-2830.68	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	21.60	-3224.05	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	22.80	-3617.41	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	24.00	-3928.05	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	24.00	-3928.05	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	25.20	-3609.98	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	26.40	-3209.18	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	27.60	-2808.38	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	28.80	-2407.58	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	28.80	-2407.58	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	30.00	-2006.78	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	31.20	-1605.98	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	32.40	-1205.19	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	33.60	-804.39	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	33.60	-804.39	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	34.80	-403.59	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	36.00	-2.79	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	37.20	398.01	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	38.40	798.81	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	38.40	798.81	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	39.60	1199.60	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	40.80	1600.40	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	42.00	2001.20	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	43.20	2402.00	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	43.20	2402.00	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	44.40	2802.80	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	45.60	3203.60	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	46.80	3604.40	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	48.00	3839.74	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86

	X	TENSIONES CON FRENADO: MOMENTOS POSITIVOS INF(t/m2)	SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	SUP(t/m2)	TENSIONES SIN FRENADO: MOMENTOS POSITIVOS INF(t/m2)	SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	SUP(t/m2)
VANO 1	0.00	298.00	480.48	298.00	480.48	573.53	756.01	573.53	756.01
VANO 1	0.98	215.45	544.94	268.42	503.57	490.99	820.47	543.96	779.11
VANO 1	1.95	110.69	663.23	254.76	577.27	424.95	977.49	569.03	891.53
VANO 1	2.93	29.84	711.47	240.86	585.56	344.10	1025.73	555.13	899.82
VANO 1	3.90	-43.33	755.13	231.27	591.29	270.93	1069.39	545.53	905.55
VANO 1	3.90	-43.33	755.13	231.27	591.29	270.93	1069.39	545.53	905.55
VANO 1	4.88	-108.80	794.19	225.96	594.45	205.46	1108.46	540.23	908.71
VANO 1	5.85	-166.60	828.68	224.96	595.05	147.67	1142.94	539.22	909.31
VANO 1	6.83	-216.70	858.57	228.26	593.08	97.56	1172.83	542.52	907.34
VANO 1	7.80	-259.12	883.88	235.85	588.55	55.14	1198.14	550.11	902.81
VANO 1	7.80	-259.12	883.88	235.85	588.55	55.14	1198.14	550.11	902.81
VANO 1	8.78	-293.85	904.61	247.75	581.46	20.41	1218.87	562.01	895.72
VANO 1	9.75	-320.90	920.75	263.94	571.79	-6.64	1235.01	578.20	886.06
VANO 1	10.73	-340.27	932.30	284.43	559.57	-26.01	1246.56	598.69	873.83
VANO 1	11.70	-351.96	939.27	309.22	544.78	-37.69	1253.54	623.48	859.04
VANO 1	11.70	-351.96	939.27	309.22	544.78	-37.69	1253.54	623.48	859.04
VANO 1	12.68	-354.43	940.75	339.84	526.51	-40.17	1255.01	654.10	840.77
VANO 1	13.65	-349.22	937.64	374.76	505.67	-34.96	1251.90	689.02	819.93
VANO 1	14.63	-336.33	929.95	413.98	482.27	-22.07	1244.21	728.24	796.53
VANO 1	15.60	-315.77	917.68	457.49	456.31	-1.51	1231.94	771.75	770.57
VANO 1	15.60	-315.77	917.68	457.49	456.31	-1.51	1231.94	771.75	770.57
VANO 1	16.58	-299.66	908.07	493.17	435.02	14.60	1222.33	807.44	749.28
VANO 1	17.55	-323.80	922.47	485.23	439.76	-9.54	1236.74	799.49	754.02
VANO 1	18.53	-345.44	935.39	476.41	445.02	-31.18	1249.65	790.67	759.28
VANO 1	19.50	-359.41	943.72	474.20	446.34	-45.15	1257.98	788.46	760.60
VANO 1	19.50	-359.41	943.72	474.20	446.34	-45.15	1257.98	788.46	760.60
VANO 1	20.48	-365.71	947.48	476.97	444.69	-51.45	1261.74	791.23	758.95
VANO 1	21.45	-364.34	946.66	484.31	440.31	-50.08	1260.92	798.57	754.57
VANO 1	22.43	-355.31	941.27	496.22	433.20	-41.05	1255.53	810.48	747.46
VANO 1	23.40	-338.61	931.31	512.71	423.36	-24.35	1245.57	826.97	737.62
VANO 1	23.40	-338.61	931.31	512.71	423.36	-24.35	1245.57	826.97	737.62
VANO 1	24.38	-314.25	916.78	533.77	410.80	0.01	1231.04	848.03	725.06
VANO 1	25.35	-282.24	897.68	559.40	395.51	32.02	1211.94	873.66	709.77
VANO 1	26.33	-242.57	874.01	589.60	377.49	71.69	1188.27	903.86	691.75
VANO 1	27.30	-195.26	845.78	624.37	356.74	119.00	1160.04	938.64	671.00
VANO 1	27.30	-195.26	845.78	624.37	356.74	119.00	1160.04	938.64	671.00
VANO 1	28.28	-140.30	812.99	663.72	333.26	173.96	1127.25	977.98	647.52
VANO 1	29.25	-77.71	775.64	707.64	307.05	236.55	1089.90	1021.90	621.32
VANO 1	30.23	-9.17	734.75	757.82	277.11	305.09	1049.01	1072.08	591.38
VANO 1	31.20	66.71	689.47	812.85	244.28	380.97	1003.74	1127.11	558.54
VANO 1	31.20	66.71	689.47	812.85	244.28	380.97	1003.74	1127.11	558.54
VANO 1	32.18	148.01	640.97	874.56	207.46	462.27	955.23	1188.82	521.72
VANO 1	33.15	225.24	594.89	949.40	162.81	539.50	909.15	1263.66	477.07
VANO 1	34.13	292.75	554.60	1037.29	110.36	607.01	868.86	1351.55	424.63
VANO 1	35.10	360.64	514.09	1137.56	50.54	674.90	828.36	1451.82	364.80
VANO 1	35.10	360.64	514.09	1137.56	50.54	674.90	828.36	1451.82	364.80
VANO 1	36.08	428.66	473.51	1249.57	-16.29	742.93	787.77	1563.83	297.97
VANO 1	37.05	488.67	437.70	1372.78	-89.81	802.93	751.97	1687.04	224.46
VANO 1	38.03	468.30	347.48	1154.74	-188.59	743.83	623.02	1430.28	86.94
VANO 1	39.00	528.05	302.38	1288.92	-277.76	801.59	577.41	1544.45	-2.23
VANO 2	0.00	552.18	446.41	1295.04	-133.73	818.76	713.00	1561.63	132.86
VANO 2	1.20	491.92	493.47	1148.36	-19.17	758.50	760.06	1414.94	247.41
VANO 2	2.40	502.62	597.52	1313.92	113.45	806.68	901.58	1617.98	417.51
VANO 2	3.60	438.90	635.54	1171.00	198.73	742.96	939.60	1475.06	502.79
VANO 2	4.80	373.61	674.49	1044.10	274.44	677.67	978.55	1348.15	578.50
VANO 2	4.80	373.61	674.49	1044.10	274.44	677.67	978.55	1348.15	578.50
VANO 2	6.00	310.61	712.09	933.66	340.33	614.67	1016.14	1237.72	644.39
VANO 2	7.20	246.22	750.51	839.97	396.24	550.27	1054.56	1144.02	700.30
VANO 2	8.40	176.71	791.98	762.92	442.21	480.77	1096.03	1066.98	746.27
VANO 2	9.60	112.33	830.39	701.83	478.66	416.39	1134.45	1005.88	782.72
VANO 2	9.60	112.33	830.39	701.83	478.66	416.39	1134.45	1005.88	782.72
VANO 2	10.80	39.36	873.93	666.53	499.72	343.42	1177.99	970.59	803.78
VANO 2	12.00	-30.81	915.80	646.36	511.75	273.25	1219.85	950.42	815.81
VANO 2	13.20	-218.68	821.82	504.17	390.52	85.37	1125.87	808.22	694.58
VANO 2	14.40	-266.02	850.06	497.98	394.21	38.04	1154.12	802.04	698.27
VANO 2	14.40	-266.02	850.06	497.98	394.21	38.04	1154.12	802.04	698.27
VANO 2	15.60	-299.98	870.32	500.62	392.64	4.08	1174.38	804.67	696.70
VANO 2	16.80	-322.43	883.72	510.18	386.93	-18.37	1187.77	814.24	690.99
VANO 2	18.00	-333.37	890.24	526.67	377.10	-29.31	1194.30	830.73	681.15
VANO 2	19.20	-332.78	889.89	550.08	363.12	-28.72	1193.95	854.14	667.18
VANO 2	19.20	-332.78	889.89	550.08	363.12	-28.72	1193.95	854.14	667.18
VANO 2	20.40	-320.67	882.67	580.43	345.02	-16.61	1186.73	884.49	649.08
VANO 2	21.60	-297.03	868.56	617.70	322.78	7.03	1172.62	921.76	626.84
VANO 2	22.80	-261.86	847.58	662.29	296.17	42.20	1151.63	966.35	600.23
VANO 2	24.00	-225.51	825.89	706.38	269.87	78.55	1129.95	1010.44	573.92
VANO 2	24.00	-225.51	825.89	706.38	269.87	78.55	1129.95	1010.44	573.92
VANO 2	25.20	-256.35	844.29	678.68	286.39	47.71	1148.35	982.74	590.45
VANO 2	26.40	-286.02	861.99	647.55	304.97	18.04	1166.05	951.61	609.02
VANO 2	27.60	-304.34	872.92	623.35	319.41	-0.28	1176.98	927.41	623.47
VANO 2	28.80	-317.11	880.55	606.07	329.72	-13.06	1184.60	910.13	633.78
VANO 2	28.80	-317.11	880.55	606.07	329.72	-13.06	1184.60	910.13	633.78
VANO 2	30.00	-318.36	881.29	595.72	335.89	-14.31	1185.35	899.78	639.95
VANO 2	31.20	-308.09	875.16	592.30	337.94	-4.03	1179.22	896.36	641.99
VANO 2	32.40	-286.29	862.16	595.80	335.84	17.76	1166.21	899.86	639.90
VANO 2	33.60	-252.99	842.28	606.24	329.62	51.07	1146.34	910.30	633.68
VANO 2	33.60	-252.99	842.28	606.24	329.62	51.07	1146.34	910.30	633.68
VANO 2	34.80	-208.18	815.55	623.60	319.26	95.88	1119.61	927.66	623.31
VANO 2	36.00	-151.89	781.96	647.91	304.75	152.17	1086.02	951.97	608.81
VANO 2	37.20	-84.20	741.57	679.23	286.07	219.86	1045.63	983.29	590.13
VANO 2	38.40	-7.13	695.59	719.56	262.00	296.93	999.65	1023.62	566.06
VANO 2	38.40	-7.13	695.59	719.56	262.00	296.93	999.65	1023.62	566.06
VANO 2	39.60	68.18	650.65	780.02	225.93	372.24	954.71	1084.08	529.99
VANO 2	40.80	144.93	604.86	856.34	180.39	448.99	908.92	1160.40	484.45
VANO 2	42.00	221.34	559.27	949.32	124.92	525.40	863.33	1253.37	428.98
VANO 2	43.20	291.69	517.30	1059.19	59.36	595.75	821.35	1363.25	363.42
VANO 2	43.20	291.69	517.30	1059.19	59.36	595.75	821.35	1363.25	363.42
VANO 2	44.40	363.09	474.69	1185.78	-16.17	667.15	778.75	1489.84	287.89
VANO 2	45.60	433.24	432.84	1326.67	-101.43	737.30	736.90	1632.73	202.63
VANO 2	46.80	428.65	341.34	1137.09	-211.90	695.24	607.93	1403.67	54.68
VANO 2	48.00	464.83	280.81	1278.49	-322.33	781.22	558.40	1545.07	-58.78

	X	VANO 3 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 3	0.00	-6895.82	1079.42	-6258.29	162.17	-678.22	535.96	0.00	3839.74	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	503.54	298.72	1287.39	-313.43	761.22	556.40	1545.07	-55.75
VANO 3	1.20	-5885.78	996.98	-5484.27	142.63	-656.96	537.03	1.20	3606.98	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	442.70	346.23	1145.93	-202.96	700.38	603.91	1403.62	54.72
VANO 3	2.40	-4927.74	941.15	-4785.29	123.08	-635.70	538.10	2.40	3208.77	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	457.75	434.43	1337.14	-90.27	751.65	728.33	1631.04	203.64
VANO 3	3.60	-4021.71	971.78	-4159.91	103.53	-614.44	539.17	3.60	2810.56	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	392.64	473.28	1192.59	-4.02	686.55	767.18	1486.49	289.88
VANO 3	4.80	-3167.69	1052.85	-3612.49	83.99	-593.17	540.25	4.80	2412.34	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	327.73	512.00	1064.31	72.52	621.64	805.91	1358.22	366.42
VANO 3	4.80	-3167.69	1052.85	-3612.49	83.99	-593.17	540.25	4.80	2412.34	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	327.73	512.00	1064.31	72.52	621.64	805.91	1358.22	366.42
VANO 3	6.00	-2365.67	1169.05	-3146.58	64.44	-571.91	541.32	6.00	2014.13	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	264.94	549.47	952.75	139.08	558.84	843.38	1246.66	432.98
VANO 3	7.20	-1615.66	1379.54	-2764.11	44.90	-550.65	542.39	7.20	1615.92	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	196.84	590.10	858.15	195.52	490.75	884.00	1152.06	489.43
VANO 3	8.40	-917.65	1657.23	-2463.84	25.35	-529.39	543.46	8.40	1217.71	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	126.85	631.86	780.36	241.94	420.75	925.77	1074.26	535.85
VANO 3	9.60	-271.65	1976.46	-2238.84	5.81	-508.13	544.54	9.60	819.49	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	58.17	672.84	718.50	278.85	352.07	966.75	1012.40	572.76
VANO 3	9.60	-271.65	1976.46	-2238.84	5.81	-508.13	544.54	9.60	819.49	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	58.17	672.84	718.50	278.85	352.07	966.75	1012.40	572.76
VANO 3	10.80	322.35	2404.66	-2165.39	3.86	-486.87	545.61	10.80	421.28	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-19.85	719.40	682.12	300.55	274.05	1013.30	976.03	594.46
VANO 3	12.00	864.34	2835.09	-2137.03	9.10	-465.61	546.68	12.00	23.07	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-92.54	762.76	657.91	315.00	201.36	1056.67	951.81	608.91
VANO 3	13.20	1354.32	3226.10	-2112.25	14.33	-444.34	547.75	13.20	-375.14	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-153.78	799.30	640.65	325.30	140.12	1093.21	934.56	619.20
VANO 1	14.40	1792.30	3577.37	-2090.83	19.57	-423.08	548.83	14.40	-773.35	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-203.53	828.99	630.33	331.46	90.37	1122.89	924.23	625.36
VANO 3	14.40	1792.30	3577.37	-2090.83	19.57	-423.08	548.83	14.40	-773.35	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-203.53	828.99	630.33	331.46	90.37	1122.89	924.23	625.36
VANO 3	15.60	2163.22	3888.80	-2072.74	24.80	-401.82	549.90	15.60	-1171.57	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-239.90	850.69	628.82	332.36	54.01	1144.59	922.72	626.26
VANO 3	16.80	2482.13	4160.29	-2057.97	30.04	-380.56	550.97	16.80	-1569.78	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-264.75	865.52	634.24	329.13	29.15	1159.42	928.14	623.03
VANO 3	18.00	2749.03	4391.80	-2046.51	35.27	-359.30	552.04	18.00	-1967.99	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-278.09	873.47	646.58	321.76	15.82	1167.38	940.49	615.66
VANO 3	19.20	2963.93	4583.28	-2038.37	40.51	-338.04	553.12	19.20	-2366.20	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-279.90	874.55	665.85	310.26	14.00	1168.46	959.76	604.16
VANO 3	19.20	2963.93	4583.28	-2038.37	40.51	-338.04	553.12	19.20	-2366.20	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-279.90	874.55	665.85	310.26	14.00	1168.46	959.76	604.16
VANO 3	20.40	3126.82	4734.70	-2033.55	49.64	-316.77	554.19	20.40	-2764.42	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-270.67	869.05	692.05	294.63	23.23	1162.95	985.96	588.53
VANO 3	21.60	3237.70	4846.03	-2032.04	91.40	-295.51	555.26	21.60	-3162.63	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-254.00	859.10	725.18	274.87	39.91	1153.00	1019.08	568.77
VANO 3	22.80	3296.58	4917.25	-2033.84	133.16	-274.25	556.33	22.80	-3560.84	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-225.79	842.27	765.23	250.97	68.11	1136.17	1059.13	544.87
VANO 3	24.00	3303.46	4948.36	-2059.59	174.92	-252.99	557.41	24.00	-3876.33	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-196.41	824.74	804.43	227.58	97.50	1118.64	1098.33	521.48
VANO 3	24.00	3303.46	4948.36	-2059.59	174.92	-252.99	557.41	24.00	-3876.33	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-196.41	824.74	804.43	227.58	97.50	1118.64	1098.33	521.48
VANO 3	25.20	3258.33	4939.34	-2098.79	216.68	-248.29	558.48	25.20	-3563.10	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-234.21	847.29	775.18	245.03	59.69	1141.20	1069.09	538.93
VANO 3	26.40	3161.19	4890.21	-2141.31	258.44	-267.84	559.55	26.40	-3167.15	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-270.84	869.15	745.54	262.72	23.07	1163.05	1039.44	556.62
VANO 3	27.60	3012.05	4800.96	-2187.15	300.21	-287.38	560.62	27.60	-2771.20	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-295.93	884.12	722.82	276.27	-2.02	1178.02	1016.73	570.17
VANO 3	28.80	2810.90	4671.61	-2236.30	341.97	-306.93	561.70	28.80	-2375.25	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-309.49	892.21	707.03	285.69	-15.58	1186.11	1000.94	579.59
VANO 3	28.80	2810.90	4671.61	-2236.30	341.97	-306.93	561.70	28.80	-2375.25	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-309.49	892.21	707.03	285.69	-15.58	1186.11	1000.94	579.59
VANO 3	30.00	2557.75	4502.18	-2288.76	383.73	-326.47	562.77	30.00	-1979.30	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-311.51	893.42	698.17	290.98	-17.61	1187.32	992.07	564.88
VANO 3	31.20	2252.59	4292.70	-2344.55	425.49	-346.02	563.84	31.20	-1583.35	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-302.02	887.75	696.23	292.13	-8.11	1181.65	990.14	586.04
VANO 3	32.40	1895.42	4043.21	-2403.65	467.25	-365.56	564.91	32.40	-1187.40	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-281.00	875.21	701.23	289.16	12.91	1169.11	995.13	583.06
VANO 3	33.60	1486.25	3753.76	-2466.08	509.01	-385.11	565.99	33.60	-791.45	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-248.46	855.80	713.15	282.04	45.44	1149.70	1007.05	575.95
VANO 3	33.60	1486.25	3753.76	-2466.08	509.01	-385.11	565.99	33.60	-791.45	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-248.46	855.80	713.15	282.04	45.44	1149.70	1007.05	575.95
VANO 3	34.80	1025.08	3424.42	-2531.86	550.77	-404.66	567.06	34.80	-395.50	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86	-204.42	829.52	732.00	270.80	89.48	1123.42	1025.90	564.70
VANO 3	36.00	511.90	3055.32	-2601.03	592.53	-424.20	568.13	36.00	0.45	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	-19.82	925.45	886.85	384.48	274.08	1219.36	1180.75	678.38
VANO 3	37.20	-53.29	2647.48	-2674.54	634.29	-443.75	569.20	37.20	396.40	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	47.07	885.54	919.69	364.88	340.97	1179.45	1213.60	658.79
VANO 3	38.40	-670.48	2223.37	-2774.73	676.05	-463.29	570.28	38.40	792.35	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	122.51	840.53	962.39	339.41	416.41	1134.43	1256.29	633.31
VANO 3	38.40	-670.48	2223.37	-2774.73	676.05	-463.29	570.28	38.40	792.35	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	122.51	840.53	962.39	339.41	416.41	1134.43	1256.29	633.31
VANO 3	39.60	-1339.68	1883.28	-3001.75	717.81	-482.84	571.35	39.60	1188.30	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	193.94	797.91	1027.47	300.58	487.85	1091.81	1321.38	594.48
VANO 3	40.80	-2060.89	1584.43	-3305.49	759.57	-502.39	572.42	40.80	1584.25	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	266.72	754.48	1108.68	252.12	560.63	1048.39	1402.58	546.03
VANO 3	42.00	-2834.09	1340.48	-3691.46	801.33	-521.93	573.49	42.00	1980.20	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	339.14	711.27	1206.69	193.65	633.05	1005.18	1500.59	487.55
VANO 3	43.20	-3659.31	1203.32	-4162.00	843.10	-541.48	574.57	43.20	2376.15	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	404.70	672.16	1321.80	124.96	698.61	966.06	1615.70	418.87
VANO 3	43.20	-3659.31	1203.32	-4162.00	843.10	-541.48	574.57	43.20	2376.15	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	404.70	672.16	1321.80	124.96	698.61	966.06	1615.70	418.87
VANO 3	44.40	-4536.53	1109.80	-4715.81	884.86	-561.02	575.64	44.40	2772.10	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	471.31	632.42	1453.85	46.17	765.21	926.32	1747.75	340.08
VANO 3	45.60	5465.76	1087.28	-5349.58	926.62	-580.57	576.71	45.60	3168.05	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	535.54	594.09	1602.42	-42.47	829.44	888.00	1896.33	251.43
VANO 3	46.80	-6446.99	1124.89	-6059.03	968.38	-600.11	577.78	46.80	3564.00	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	520.76	486.80	1360.03	-168.62	778.44	744.49	1617.71	89.06
VANO 3	48.00	-7480.23	1190.69	-6839.52	1010.14	-619.66	578.86	48.00	3794.51	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86	583.19	438.04	1504.21	-281.21	840.88	695.73	1761.89	-23.53

	X	VANO 4 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 4	0.00	-7480.23	1190.69	-6839.52	1010.14	-619.66	578.86	0.00	3794.51	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	592.35	447.20	1513.36	-272.06	840.88	695.73	1761.89	-23.53
VANO 4	1.28	-6339.29	1106.48	-5914.78	969.46	-580.17	578.58	1.28	3554.37	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	522.58	501.69	1345.60	-141.04	771.10	750.21	1594.12	107.48
VANO 4	2.55	-5257.06	1057.08	-5133.94	928.77	-540.67	578.31	2.55	3159.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	524.26	617.50	1555.84	2.00	807.72	900.96	1839.30	285.46
VANO 4	3.83	-4233.53	1086.43	-4434.30	888.09	-501.18	578.04	3.83	2764.16	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	447.03	663.58	1384.61	104.16	730.49	947.04	1668.07	387.62
VANO 4	5.10	-3268.72	1175.80	-3820.84	847.41	-461.69	577.77	5.10	2369.05	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	369.64	709.76	1231.52	195.50	653.09	993.22	1514.98	478.96
VANO 4	5.10	-3268.72	1175.80	-3820.84	847.41	-461.69	577.77	5.10	2369.05	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	369.64	709.76	1231.52	195.50	653.09	993.22	1514.98	478.96
VANO 4	6.38	-2362.62	1325.95	-3297.72	806.72	-422.19	577.50	6.38	1973.94	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	291.98	756.09	1097.09	275.71	575.44	1039.55	1380.55	559.17
VANO 4	7.65	-1515.23	1574.84	-2867.40	766.04	-382.70	577.22	7.65	1578.83	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	209.32	805.41	981.64	344.60	492.78	1088.87	1265.10	628.06
VANO 4	8.93	-726.54	1884.89	-2529.21	725.36	-343.21	576.95	8.93	1183.72	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	126.34	854.92	885.07	402.22	409.80	1138.38	1168.53	685.68
VANO 4	10.20	3.43	2242.02	-2276.57	684.68	-303.72	576.68	10.20	788.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	44.83	903.56	806.56	449.06	328.29	1187.02	1090.02	732.52
VANO 4	10.20	3.43	2242.02	-2276.57	684.68	-303.72	576.68	10.20	788.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	44.83	903.56	806.56	449.06	328.29	1187.02	1090.02	732.52
VANO 4	11.48	674.69	2700.27	-2172.77	643.99	-264.22	576.41	11.48	393.50	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-42.00	955.36	754.04	480.40	241.46	1238.82	1037.50	763.86
VANO 4	12.75	1287.25	3174.68	-2133.13	603.31	-224.73	576.13	12.75	-1.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-123.50	1003.99	716.91	502.55	159.96	1287.45	1000.37	786.01
VANO 4	14.03	1841.09	3605.23	-2097.84	562.63	-185.24	575.86	14.03	-396.72	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-192.16	1044.96	687.67	520.00	91.30	1328.41	971.13	803.46
VANO 4	15.30	2336.23	3991.26	-2066.37	521.95	-145.74	575.59	15.30	-791.83	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-247.89	1078.21	666.26	532.77	35.57	1361.67	949.72	816.23
VANO 4	15.30	2336.23	3991.26	-2066.37	521.95	-145.74	575.59	15.30	-791.83	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-247.89	1078.21	666.26	532.77	35.57	1361.67	949.72	816.23
VANO 4	16.58	2756.66	4332.60	-2038.67	481.26	-106.25	575.32	16.58	-1186.94	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-288.67	1102.54	654.68	539.68	-5.21	1386.00	938.14	823.14
VANO 4	17.85	3118.37	4629.13	-2014.72	440.58	-107.64	575.05	17.85	-1582.05	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-316.49	1119.14	656.03	538.87	-33.03	1402.60	939.49	822.33
VANO 4	19.13	3421.38	4880.79	-1994.52	399.90	-127.20	574.77	19.13	-1977.16	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-331.34	1128.00	667.49	532.04	-47.88	1411.46	950.95	815.50
VANO 4	20.40	3665.68	5087.50	-1978.06	359.21	-146.76	574.50	20.40	-2372.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-333.21	1129.12	686.76	520.54	-49.75	1412.57	970.22	804.00
VANO 4	20.40	3665.68	5087.50	-1978.06	359.21	-146.76	574.50	20.40	-2372.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-333.21	1129.12	686.76	520.54	-49.75	1412.57	970.22	804.00
VANO 4	21.68	3851.26	5249.22	-1965.35	318.53	-166.32	574.23	21.68	-2767.38	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-322.10	1122.48	713.85	504.38	-38.64	1405.94	997.31	787.84
VANO 4	22.95	3978.14	5365.92	-1956.37	277.85	-185.87	573.96	22.95	-3162.49	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-297.99	1108.10	748.76	483.55	-14.54	1391.56	1032.22	767.01
VANO 4	24.23	4046.31	5437.57	-1951.14	237.17	-205.43	573.69	24.23	-3557.60	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-260.90	1085.97	791.49	458.05	22.56	1369.43	1074.95	741.51
VANO 4	25.50	4055.77	5464.16	-1966.37	196.48	-224.99	573.41	25.50	-3875.22	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-220.52	1061.88	834.43	432.43	62.94	1345.34	1117.89	715.89
VANO 4	25.50	4055.77	5464.16	-1966.37	196.48	-224.99	573.41	25.50	-3875.22	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-220.52	1061.88	834.43	432.43	62.94	1345.34	1117.89	715.89
VANO 4	26.78	4006.52	5445.68	-1998.83	209.70	-244.55	573.14	26.78	-3557.43	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-253.45	1081.53	807.32	448.61	30.01	1364.99	1090.78	732.07
VANO 4	28.05	3898.56	5382.14	-2035.04	249.19	-264.11	572.87	28.05	-3162.14	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-286.38	1101.18	778.32	465.91	-2.92	1384.63	1061.78	749.37
VANO 4	29.33	3731.89	5273.53	-2074.98	288.68	-283.67	572.60	29.33	-2766.85	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-306.32	1113.07	757.15	478.54	-22.86	1396.53	1040.61	762.00
VANO 4	30.60	3506.51	5119.89	-2118.66	328.17	-303.22	572.32	30.60	-2371.56	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-313.27	1117.22	743.79	486.51	-29.81	1400.68	1027.25	769.97
VANO 4	30.60	3506.51	5119.89	-2118.66	328.17	-303.22	572.32	30.60	-2371.56	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-313.27	1117.22	743.79	486.51	-29.81	1400.68	1027.25	769.97
VANO 4	31.88	3222.42	4921.24	-2166.09	367.67	-322.78	572.05	31.88	-1976.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-307.23	1113.61	738.26	489.82	-23.77	1397.07	1021.72	773.27
VANO 4	33.15	2879.63	4677.62	-2217.26	407.16	-342.34	571.78	33.15	-1580.99	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-288.21	1102.26	740.54	488.45	-4.75	1385.72	1024.00	771.91
VANO 4	34.43	2478.12	4389.08	-2272.17	446.65	-361.90	571.51	34.43	-1185.70	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-256.21	1083.17	750.64	482.42	27.25	1366.63	1034.10	765.88
VANO 4	35.70	2017.90	4055.68	-2330.82	486.15	-381.46	571.24	35.70	-790.41	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-211.25	1056.35	768.57	471.73	72.21	1339.81	1052.03	755.19
VANO 4	35.70	2017.90	4055.68	-2330.82	486.15	-381.46	571.24	35.70	-790.41	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-211.25	1056.35	768.57	471.73	72.21	1339.81	1052.03	755.19
VANO 4	36.98	1498.98	3677.53	-2393.23	525.64	-401.01	570.96	36.98	-395.12	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-153.33	1021.79	794.31	456.37	130.13	1305.25	1077.77	739.83
VANO 4	38.25	921.34	3254.73	-2459.42	565.13	-420.57	570.69	38.25	0.17	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	-82.47	979.51	827.88	436.34	200.99	1262.97	1111.34	719.80
VANO 4	39.53	285.00	2787.63	-2529.59	604.63	-440.13	570.42	39.53	395.45	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	1.29	929.53	869.30	411.63	284.75	1212.99	1152.75	695.09
VANO 4	40.80	-410.06	2319.14	-2646.50	644.12	-459.69	570.15	40.80	790.74	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	92.57	875.07	923.92	379.04	376.03	1158.53	1207.38	662.50
VANO 4	40.80	-410.06	2319.14	-2646.50	644.12	-459.69	570.15	40.80	790.74	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	92.57	875.07	923.92	379.04	376.03	1158.53	1207.38	662.50
VANO 4	42.08	-1163.82	1939.57	-2900.24	683.61	-479.25	569.88	42.08	1186.03	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	180.07	822.86	1003.02	331.84	463.53	1106.32	1286.48	615.30
VANO 4	43.35	-1976.29	1602.00	-3237.34	723.11	-498.80	569.60	43.35	1581.32	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	269.66	769.41	1099.91	274.03	553.12	1052.87	1383.37	557.49
VANO 4	44.63	-2847.47	1328.64	-3666.57	762.60	-518.36	569.33	44.63	1976.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	358.57	716.36	1215.69	204.95	642.03	999.82	1499.15	488.41
VANO 4	45.90	-3777.37	1183.20	-4189.84	802.09	-537.92	569.06	45.90	2371.89	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	438.80	668.49	1350.60	124.46	722.26	951.95	1634.06	407.91
VANO 4	45.90	-3777.37	1183.20	-4189.84	802.09	-537.92	569.06	45.90	2371.89	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	438.80	668.49	1350.60	124.46	722.26	951.95	1634.06	407.91
VANO 4	47.18	-4765.97	1077.51	-4805.22	841.59	-557.48	568.79	47.18	2767.18	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	521.42	619.20	1504.39	32.69	804.87	902.65	1787.85	316.15
VANO 4	48.45	-5813.28	1029.60	-5508.85	881.08	-577.04	568.52	48.45	3162.47	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	604.14	569.84	1676.58	-70.04	887.60	853.29	1960.04	213.41
VANO 4	49.73	-6919.30	1062.92	-6295.92	920.57	-596.59	568.24	49.73	3557.76	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	583.69	453.96	1433.22	-209.47	832.22	702.49	1681.74	39.06
VANO 5	51.00	-8084.03	1127.10	-7160.91	960.06	-617.17	567.97	51.00	3798.07	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86	857.55	396.29	1596.04	-336.62	906.07	844.81	1844.57	-66.10

	X	VANO 5 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	SUP(t/m2)
VANO 5	0.00	-8084.03	1127.10	-7160.81	960.06	-617.17	567.97	0.00	3798.07	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	667.12	405.87	1605.62	-327.05	906.07	644.81	1844.57	-88.10
VANO 5	1.28	-6912.67	1062.63	-6293.28	920.61	-597.59	568.04	1.28	3557.95	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	592.70	463.99	1442.05	-199.30	831.65	702.93	1680.99	39.64
VANO 5	2.55	-5800.02	1028.33	-5505.02	881.15	-578.01	568.11	2.55	3162.85	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	613.56	581.66	1685.44	-57.89	886.10	854.19	1957.97	214.65
VANO 5	3.83	-4746.09	1074.42	-4799.99	841.69	-558.44	568.19	3.83	2767.75	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	530.23	631.38	1512.22	45.47	802.76	903.91	1784.75	318.00
VANO 5	5.10	-3750.86	1178.95	-4183.10	802.23	-538.86	568.26	5.10	2372.65	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	446.93	681.08	1357.38	137.85	719.47	953.61	1629.92	410.38
VANO 5	5.10	-3750.86	1178.95	-4183.10	802.23	-538.86	568.26	5.10	2372.65	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	446.93	681.08	1357.38	137.85	719.47	953.61	1629.92	410.38
VANO 5	6.38	-2814.34	1323.16	-3658.20	762.77	-519.28	568.33	6.38	1977.55	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	366.02	729.36	1221.42	218.97	638.55	1001.89	1493.95	491.51
VANO 5	7.65	-1936.53	1593.20	-3227.22	723.31	-499.70	568.40	7.65	1582.44	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	276.70	782.65	1104.56	288.70	549.23	1055.19	1377.10	561.23
VANO 5	8.93	-1117.43	1928.81	-2888.25	683.85	-480.13	568.47	8.93	1187.34	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	186.52	836.46	1006.58	347.16	459.05	1108.99	1279.12	619.69
VANO 5	10.20	-357.03	2306.80	-2632.84	644.39	-460.55	568.54	10.20	792.24	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	98.38	889.05	926.41	394.99	370.91	1161.58	1198.95	667.53
VANO 5	10.20	-357.03	2306.80	-2632.84	644.39	-460.55	568.54	10.20	792.24	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	98.38	889.05	926.41	394.99	370.91	1161.58	1198.95	667.53
VANO 5	11.48	344.65	2778.66	-2519.19	604.94	-440.97	568.61	11.48	397.14	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	5.84	944.26	871.34	427.85	278.38	1216.79	1143.88	700.39
VANO 5	12.75	987.62	3247.86	-2450.99	565.48	-421.39	568.69	12.75	2.04	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-79.01	994.89	829.32	452.93	193.53	1267.42	1101.85	725.46
VANO 5	14.03	1571.88	3672.88	-2386.91	526.02	-401.81	568.76	14.03	-393.06	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-150.98	1037.83	795.16	473.31	121.55	1310.36	1067.69	745.84
VANO 5	15.30	2097.44	4053.31	-2326.64	486.56	-382.24	568.83	15.30	-788.16	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-210.02	1073.05	768.82	489.02	62.52	1345.59	1041.36	761.55
VANO 5	15.30	2097.44	4053.31	-2326.64	486.56	-382.24	568.83	15.30	-788.16	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-210.02	1073.05	768.82	489.02	62.52	1345.59	1041.36	761.55
VANO 5	16.58	2548.28	4388.99	-2270.13	447.10	-362.66	568.90	16.58	-1183.26	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-254.09	1099.35	752.32	498.87	18.44	1371.89	1024.85	771.40
VANO 5	17.85	2940.41	4679.82	-2217.37	407.64	-343.08	568.97	17.85	-1578.36	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-285.21	1117.92	743.63	504.05	-12.67	1390.45	1016.17	776.59
VANO 5	19.13	3273.84	4925.75	-2168.36	368.18	-323.50	569.04	19.13	-1973.46	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-303.34	1128.74	742.77	504.57	-30.81	1401.27	1015.30	777.10
VANO 5	20.40	3548.55	5126.71	-2123.09	328.73	-303.93	569.12	20.40	-2368.56	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-308.50	1131.82	749.72	500.42	-35.97	1404.35	1022.26	772.95
VANO 5	20.40	3548.55	5126.71	-2123.09	328.73	-303.93	569.12	20.40	-2368.56	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-308.50	1131.82	749.72	500.42	-35.97	1404.35	1022.26	772.95
VANO 5	21.68	3764.56	5282.66	-2081.56	289.27	-284.35	569.19	21.68	-2763.66	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-300.67	1127.15	764.49	491.60	-28.14	1399.68	1037.03	764.14
VANO 5	22.95	3921.85	5393.59	-2043.77	249.81	-264.77	569.26	22.95	-3158.76	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-279.85	1114.72	787.09	478.12	-7.32	1387.26	1059.62	750.66
VANO 5	24.23	4020.44	5459.46	-2009.73	210.35	-245.19	569.33	24.23	-3553.86	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-246.04	1094.55	817.50	459.98	26.49	1367.08	1090.03	732.51
VANO 5	25.50	4060.31	5480.27	-1979.42	195.51	-240.59	569.40	25.50	-3871.47	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-212.02	1074.25	847.90	441.84	60.51	1346.79	1120.44	714.37
VANO 5	25.50	4060.31	5480.27	-1979.42	195.51	-240.59	569.40	25.50	-3871.47	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-212.02	1074.25	847.90	441.84	60.51	1346.79	1120.44	714.37
VANO 5	26.78	4041.48	5456.01	-1966.71	236.09	-261.18	569.47	26.78	-3553.66	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-251.51	1097.81	811.46	463.58	21.02	1370.35	1083.99	736.12
VANO 5	28.05	3963.94	5386.70	-1974.02	276.67	-281.77	569.54	28.05	-3158.37	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-287.71	1119.41	775.16	485.24	-15.18	1391.95	1047.70	757.77
VANO 5	29.33	3827.69	5272.34	-1985.08	317.26	-302.36	569.62	29.33	-2763.07	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-310.92	1133.26	746.69	502.23	-38.38	1405.79	1019.22	774.76
VANO 5	30.60	3632.73	5112.96	-1999.87	357.84	-322.96	569.69	30.60	-2367.77	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-321.14	1139.36	726.04	514.55	-48.60	1411.89	998.57	787.08
VANO 5	30.60	3632.73	5112.96	-1999.87	357.84	-322.96	569.69	30.60	-2367.77	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-321.14	1139.36	726.04	514.55	-48.60	1411.89	998.57	787.08
VANO 5	31.88	3379.06	4908.60	-2018.40	398.42	-343.55	569.76	31.88	-1972.47	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-318.37	1137.71	713.20	522.21	-45.84	1410.24	985.74	794.74
VANO 5	33.15	3066.68	4659.30	-2040.68	439.01	-364.14	569.83	33.15	-1577.17	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-302.63	1128.31	708.19	525.20	-30.09	1400.85	980.72	797.73
VANO 5	34.43	2695.59	4365.13	-2066.70	479.59	-384.74	569.90	34.43	-1181.88	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-273.92	1111.18	710.99	523.52	-1.38	1383.72	983.53	796.06
VANO 5	35.70	2265.79	4026.15	-2096.48	520.17	-405.33	569.97	35.70	-786.58	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-232.24	1086.32	721.62	517.18	40.29	1358.85	994.16	789.72
VANO 5	35.70	2265.79	4026.15	-2096.48	520.17	-405.33	569.97	35.70	-786.58	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-232.24	1086.32	721.62	517.18	40.29	1358.85	994.16	789.72
VANO 5	36.98	1777.28	3642.48	-2130.02	560.75	-425.92	570.04	36.98	-391.28	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-177.62	1053.73	740.07	506.18	94.91	1326.26	1012.60	778.71
VANO 5	38.25	1230.06	3214.30	-2167.39	601.34	-446.52	570.12	38.25	4.02	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-110.08	1013.43	766.35	490.50	162.46	1285.96	1036.88	763.03
VANO 5	39.53	624.13	2742.22	-2209.07	641.92	-467.11	570.19	39.53	399.31	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	-29.69	965.46	800.52	470.11	242.85	1237.99	1073.05	742.64
VANO 5	40.80	-40.50	2282.77	-2311.38	682.50	-487.70	570.26	40.80	794.61	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	56.47	914.05	849.63	440.80	329.01	1186.58	1122.17	713.34
VANO 5	40.80	-40.50	2282.77	-2311.38	682.50	-487.70	570.26	40.80	794.61	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	56.47	914.05	849.63	440.80	329.01	1186.58	1122.17	713.34
VANO 5	42.08	-763.85	1925.37	-2563.49	723.09	-508.30	570.33	42.08	1189.91	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	137.21	865.88	924.85	395.92	409.74	1138.41	1197.39	668.46
VANO 5	43.35	-1545.91	1614.36	-2900.84	763.67	-528.89	570.40	43.35	1585.21	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	219.49	816.79	1018.10	340.29	492.02	1089.32	1290.63	612.82
VANO 5	44.63	-2386.67	1364.32	-3330.17	804.25	-549.48	570.47	44.63	1980.50	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	301.48	767.87	1130.21	273.40	574.01	1040.40	1402.74	545.93
VANO 5	45.90	-3286.14	1205.28	-3852.26	844.84	-570.07	570.55	45.90	2375.80	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	379.43	721.35	1261.29	195.19	651.97	993.89	1533.82	467.72
VANO 5	45.90	-3286.14	1205.28	-3852.26	844.84	-570.07	570.55	45.90	2375.80	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	379.43	721.35	1261.29	195.19	651.97	993.89	1533.82	467.72
VANO 5	47.18	-4244.33	1115.30	-4464.71	885.42	-590.67	570.62	47.18	2771.10	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	456.09	675.62	1411.03	105.84	728.62	948.15	1683.56	378.38
VANO 5	48.45	-5261.22	1082.93	-5163.38	926.00	-611.26	570.69	48.45	3166.40	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	532.88	629.80	1578.92	5.67	805.41	902.33	1851.45	278.20
VANO 5	49.73	-6336.83	1131.55	-5943.34	966.58	-631.85	570.76	49.73	3561.69	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	529.98	512.96	1361.51	-136.41	768.93	751.91	1600.46	102.53
VANO 6	51.00	-7471.14	1215.21	-6865.06	1007.17	-652.45	570.83	51.00	3802.01	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86	599.22	458.90	1526.69	-265.41	838.17	697.84	1765.64	-26.46

	X	VANO 6 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	SUP(t/m2)
VANO 6	0.00	-7471.14	1215.21	-6865.06	1007.17	-652.45	570.83	0.00	3802.01	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	608.38	468.06	1535.86	-256.25	838.17	697.84	1765.64	-26.46
VANO 6	1.20	-6431.64	1146.11	-6080.17	965.60	-609.67	570.81	1.20	3570.53	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	545.65	517.04	1388.72	-141.35	775.44	746.83	1618.51	88.44
VANO 6	2.40	-5444.14	1105.16	-5366.26	924.04	-579.35	570.79	2.40	3173.59	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	562.78	628.64	1632.78	-9.78	824.87	890.73	1894.86	252.30
VANO 6	3.60	-4508.66	1126.48	-4727.95	882.48	-559.89	570.77	3.60	2776.66	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	497.89	667.36	1482.99	79.59	759.97	929.45	1745.07	341.68
VANO 6	4.80	-3625.18	1216.33	-4169.48	840.91	-540.42	570.76	4.80	2379.72	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	430.92	707.32	1349.70	159.12	693.01	969.40	1611.79	421.20
VANO 6	4.80	-3625.18	1216.33	-4169.48	840.91	-540.42	570.76	4.80	2379.72	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	430.92	707.32	1349.70	159.12	693.01	969.40	1611.79	421.20
VANO 6	6.00	-2793.70	1352.17	-3694.12	799.35	-520.96	570.74	6.00	1982.79	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	364.71	746.82	1233.34	228.55	626.80	1008.91	1495.42	490.63
VANO 6	7.20	-2014.23	1591.30	-3303.12	757.78	-501.49	570.72	7.20	1585.85	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	292.08	790.16	1134.04	287.79	554.16	1052.24	1396.13	549.88
VANO 6	8.40	-1286.76	1885.03	-2994.13	716.22	-482.02	570.70	8.40	1188.92	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	219.12	833.69	1051.53	337.02	481.21	1095.77	1313.62	599.11
VANO 6	9.60	-611.30	2223.77	-2765.72	674.65	-462.56	570.68	9.60	791.98	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	147.04	876.70	985.62	376.35	409.12	1138.78	1247.71	638.44
VANO 6	9.60	-611.30	2223.77	-2765.72	674.65	-462.56	570.68	9.60	791.98	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	147.04	876.70	985.62	376.35	409.12	1138.78	1247.71	638.44
VANO 6	10.80	12.15	2655.26	-2672.83	633.09	-443.09	570.66	10.80	395.05	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	69.86	922.75	943.19	401.67	331.94	1184.83	1205.28	663.75
VANO 6	12.00	583.60	3069.93	-2606.07	591.53	-423.63	570.64	12.00	-1.89	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86	1.29	963.66	910.54	421.15	263.38	1225.74	1172.63	683.23
VANO 6	13.20	1103.04	3445.77	-2543.54	549.96	-404.16	570.62	13.20	-398.82	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-184.97	868.72	755.87	307.36	77.12	1130.80	1017.95	569.44
VANO 6	14.40	1570.48	3781.90	-2484.45	508.40	-384.70	570.60	14.40	-795.76	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-230.68	895.99	737.20	318.49	31.41	1158.07	999.29	580.58
VANO 6	14.40	1570.48	3781.90	-2484.45	508.40	-384.70	570.60	14.40	-795.76	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-230.68	895.99	737.20	318.49	31.41	1158.07	999.29	580.58
VANO 6	15.60	1970.85	4078.17	-2428.71	466.83	-365.23	570.58	15.60	-1192.69	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-263.00	915.27	727.36	324.37	-0.91	1177.36	989.44	586.45
VANO 6	16.80	2319.22	4334.51	-2376.31	425.27	-345.76	570.57	16.80	-1589.63	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-283.80	927.69	724.44	326.11	-21.72	1189.77	986.53	588.19
VANO 6	18.00	2615.58	4550.84	-2327.24	383.70	-326.30	570.55	18.00	-1986.56	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-293.09	933.23	728.45	323.72	-31.01	1195.31	990.54	585.80
VANO 6	19.20	2859.94	4727.14	-2281.48	342.14	-306.83	570.53	19.20	-2383.50	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-290.85	931.89	739.39	317.19	-28.77	1193.98	1001.48	579.27
VANO 6	19.20	2859.94	4727.14	-2281.48	342.14	-306.83	570.53	19.20	-2383.50	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-290.85	931.89	739.39	317.19	-28.77	1193.98	1001.48	579.27
VANO 6	20.40	3052.29	4863.37	-2239.05	300.58	-287.37	570.51	20.40	-2780.43	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-277.09	923.68	757.26	306.53	-15.00	1185.77	1019.34	568.61
VANO 6	21.60	3192.63	4959.51	-2199.93	259.01	-267.90	570.49	21.60	-3177.37	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-251.79	908.59	782.05	291.74	10.29	1170.67	1044.13	553.82
VANO 6	22.80	3280.97	5015.55	-2164.13	217.45	-248.44	570.47	22.80	-3574.30	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-214.96	886.61	813.77	272.81	47.12	1148.70	1075.85	534.90
VANO 6	24.00	3317.30	5031.48	-2131.64	203.02	-249.01	570.45	24.00	-3888.51	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-180.36	865.96	844.57	254.44	81.73	1128.05	1106.65	516.52
VANO 6	24.00	3317.30	5031.48	-2131.64	203.02	-249.01	570.45	24.00	-3888.51	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-180.36	865.96	844.57	254.44	81.73	1128.05	1106.65	516.52
VANO 6	25.20	3301.63	5007.29	-2114.65	245.79	-269.88	570.43	25.20	-3574.01	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-220.10	889.68	807.63	276.47	41.99	1151.76	1069.72	538.56
VANO 6	26.40	3233.95	4943.00	-2119.52	288.57	-290.74	570.41	26.40	-3176.78	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-258.66	912.69	769.59	299.17	3.42	1174.77	1031.68	561.25
VANO 6	27.60	3114.27	4838.61	-2127.70	331.34	-311.60	570.40	27.60	-2779.55	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-285.70	928.82	738.48	317.73	-23.61	1190.90	1000.56	579.82
VANO 6	28.80	2942.58	4694.14	-2139.21	374.11	-332.47	570.38	28.80	-2382.32	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-301.20	938.07	714.29	332.16	-39.12	1200.15	976.38	594.25
VANO 6	28.80	2942.58	4694.14	-2139.21	374.11	-332.47	570.38	28.80	-2382.32	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-301.20	938.07	714.29	332.16	-39.12	1200.15	976.38	594.25
VANO 6	30.00	2718.88	4509.62	-2154.02	416.89	-353.33	570.36	30.00	-1985.10	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-305.18	940.44	697.03	342.46	-43.09	1202.53	959.12	604.55
VANO 6	31.20	2443.18	4285.07	-2172.16	459.66	-374.19	570.34	31.20	-1587.87	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-297.63	935.94	686.70	348.63	-35.55	1198.02	948.78	610.71
VANO 6	32.40	2115.47	4020.56	-2193.61	502.43	-395.06	570.32	32.40	-1190.64	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-278.57	924.57	683.29	350.66	-16.49	1186.65	945.38	612.75
VANO 6	33.60	1735.76	3716.12	-2218.39	545.21	-415.92	570.30	33.60	-793.41	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-248.00	906.32	686.81	348.56	14.09	1168.41	948.90	610.64
VANO 6	33.60	1735.76	3716.12	-2218.39	545.21	-415.92	570.30	33.60	-793.41	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-248.00	906.32	686.81	348.56	14.09	1168.41	948.90	610.64
VANO 6	34.80	1304.04	3371.85	-2246.51	587.98	-436.78	570.28	34.80	-396.18	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-205.93	881.22	697.26	342.32	56.16	1143.31	959.35	604.41
VANO 6	36.00	820.32	2987.87	-2278.01	630.75	-457.65	570.26	36.00	1.04	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-152.37	849.27	714.65	331.95	109.71	1111.35	976.74	594.03
VANO 6	37.20	284.59	2564.60	-2313.21	673.53	-478.51	570.24	37.20	398.27	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-87.39	810.49	739.01	317.41	174.70	1072.58	1001.10	579.50
VANO 6	38.40	-303.14	2133.96	-2383.89	716.30	-499.37	570.22	38.40	795.50	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-14.97	767.28	774.33	296.34	247.12	1029.37	1036.41	558.43
VANO 6	38.40	-303.14	2133.96	-2383.89	716.30	-499.37	570.22	38.40	795.50	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	-14.97	767.28	774.33	296.34	247.12	1029.37	1036.41	558.43
VANO 6	39.60	-942.88	1818.24	-2612.12	759.07	-520.24	570.21	39.60	1192.73	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	49.58	728.77	835.88	259.62	311.66	990.86	1097.97	521.70
VANO 6	40.80	-1634.63	1543.58	-2915.64	801.85	-541.10	570.19	40.80	1589.96	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	115.49	689.44	913.38	213.38	377.58	951.53	1175.46	475.46
VANO 6	42.00	-2378.38	1323.44	-3301.07	844.62	-561.96	570.17	42.00	1987.18	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	181.09	650.30	1007.64	157.14	443.17	912.39	1269.72	419.22
VANO 6	43.20	-3174.14	1188.24	-3769.88	887.39	-582.83	570.15	43.20	2384.41	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	242.57	613.62	1118.85	90.78	504.65	875.71	1380.93	352.87
VANO 6	43.20	-3174.14	1188.24	-3769.88	887.39	-582.83	570.15	43.20	2384.41	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	242.57	613.62	1118.85	90.78	504.65	875.71	1380.93	352.87
VANO 6	44.40	-4021.90	1113.54	-4320.27	930.17	-603.69	570.13	44.40	2781.64	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	302.98	577.58	1246.79	14.45	565.06	839.66	1508.87	276.53
VANO 6	45.60	-4921.67	1080.98	-4948.78	972.94	-624.55	570.11	45.60	3178.87	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	364.62	540.80	1391.02	-71.61	626.71	802.88	1653.10	190.47
VANO 6	46.80	-5873.44	1131.41	-5651.07	1015.71	-645.42	570.09	46.80	3576.10	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	378.66	445.92	1189.47	-187.27	608.44	675.71	1419.25	42.51
VANO 6	48.00	-6877.22	1216.60	-6422.59	1058.49	-666.28	570.07	48.00	3807.87	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86	436.59	400.68	1330.19	-297.17	666.38	630.46	1559.97	-67.38

VANO 7	X	CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 7	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	461.98	396.65	1322.54	-275.39	682.90	617.57	1543.45	-54.48
VANO 7	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	400.32	444.81	1183.02	-166.44	621.23	665.72	1403.93	54.48
VANO 7	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	388.35	542.80	1381.60	-49.83	640.32	794.76	1633.56	202.13
VANO 7	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	323.57	581.45	1238.95	35.28	575.54	833.41	1490.91	287.24
VANO 7	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	258.85	620.07	1112.38	110.80	510.81	872.03	1364.35	362.76
VANO 7	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	258.85	620.07	1112.38	110.80	510.81	872.03	1364.35	362.76
VANO 7	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	194.62	658.39	1002.31	176.47	446.59	910.35	1254.27	428.44
VANO 7	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	124.77	700.07	908.92	232.20	376.74	952.03	1160.88	484.16
VANO 7	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	54.77	741.83	831.99	278.10	306.73	993.80	1083.95	530.06
VANO 7	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-14.32	783.05	771.28	314.32	237.65	1035.02	1023.25	566.28
VANO 7	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-14.32	783.05	771.28	314.32	237.65	1035.02	1023.25	566.28
VANO 7	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-88.83	827.52	734.19	336.45	163.13	1079.48	986.16	588.41
VANO 7	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-153.59	866.16	705.55	353.54	98.37	1118.12	957.51	605.50
VANO 7	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-207.19	898.13	683.96	366.42	44.78	1150.10	935.93	618.38
VANO 7	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-249.50	923.38	669.33	375.15	2.47	1175.34	921.29	627.11
VANO 7	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-249.50	923.38	669.33	375.15	2.47	1175.34	921.29	627.11
VANO 7	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-278.61	940.75	663.52	378.62	-26.65	1192.71	915.49	630.58
VANO 7	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-296.41	951.37	664.65	377.94	-44.44	1203.33	916.61	629.91
VANO 7	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-302.86	955.22	672.70	373.14	-50.90	1207.18	924.66	625.10
VANO 7	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-297.98	952.31	687.68	364.20	-46.02	1204.27	939.64	616.17
VANO 7	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-297.98	952.31	687.68	364.20	-46.02	1204.27	939.64	616.17
VANO 7	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-281.76	942.63	709.59	351.13	-29.80	1194.59	961.55	603.09
VANO 7	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-254.19	926.18	738.42	333.92	-2.23	1178.14	990.39	585.89
VANO 7	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-215.27	902.95	774.19	312.59	36.69	1154.92	1026.15	564.55
VANO 7	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-175.36	879.14	806.63	293.23	76.61	1131.11	1058.59	545.19
VANO 7	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-175.36	879.14	806.63	293.23	76.61	1131.11	1058.59	545.19
VANO 7	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-213.44	901.86	775.81	311.61	38.52	1153.83	1027.78	563.58
VANO 7	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-250.69	924.09	741.73	331.95	1.27	1176.05	993.70	583.91
VANO 7	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-276.59	939.54	714.58	348.15	-24.63	1191.51	966.55	600.11
VANO 7	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-291.15	948.23	694.36	360.22	-39.18	1200.19	946.32	612.18
VANO 7	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-291.15	948.23	694.36	360.22	-39.18	1200.19	946.32	612.18
VANO 7	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-294.35	950.14	681.06	368.15	-42.39	1202.11	933.02	620.12
VANO 7	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-286.23	945.29	674.69	371.95	-34.26	1197.26	926.65	623.92
VANO 7	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-266.76	933.68	675.25	371.62	-14.80	1185.64	927.21	623.58
VANO 7	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-235.97	915.31	682.74	367.15	15.99	1167.27	934.71	619.11
VANO 7	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-235.97	915.31	682.74	367.15	15.99	1167.27	934.71	619.11
VANO 7	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-193.88	890.19	697.17	358.54	58.09	1142.15	949.13	610.50
VANO 7	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-140.49	858.34	718.55	345.78	111.47	1110.30	970.52	597.75
VANO 7	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-75.94	819.82	746.98	328.82	176.03	1071.78	998.95	580.78
VANO 7	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-1.54	775.43	783.78	306.86	250.42	1027.40	1035.75	558.82
VANO 7	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	-1.54	775.43	783.78	306.86	250.42	1027.40	1035.75	558.82
VANO 7	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	67.44	734.27	844.18	270.83	319.40	986.24	1096.14	522.79
VANO 7	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	137.37	692.55	920.80	225.11	389.33	944.52	1172.76	477.07
VANO 7	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	207.14	650.92	1013.87	169.58	459.11	902.88	1265.84	421.54
VANO 7	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	270.45	613.14	1123.63	104.08	522.41	865.11	1375.60	356.05
VANO 7	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	270.45	613.14	1123.63	104.08	522.41	865.11	1375.60	356.05
VANO 7	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	335.00	574.63	1249.90	28.75	586.97	826.59	1501.86	280.71
VANO 7	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	399.95	535.88	1392.25	-56.19	651.92	787.84	1644.22	195.78
VANO 7	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	408.52	438.41	1190.48	-172.26	629.43	659.32	1411.39	48.65
VANO 7	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86	470.01	390.39	1329.71	-280.99	690.92	611.30	1550.62	-60.08

VANO 8	X	CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 8	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	470.89	405.56	1331.45	-266.48	682.90	617.57	1543.45	-54.48
VANO 8	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	409.23	453.72	1191.93	-157.53	621.23	665.72	1403.93	54.48
VANO 8	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	398.52	552.96	1391.76	-39.67	640.32	794.76	1633.56	202.13
VANO 8	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	333.73	591.61	1249.11	45.44	575.54	833.41	1490.91	287.24
VANO 8	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	269.01	630.23	1122.55	120.96	510.81	872.03	1364.35	362.76
VANO 8	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	269.01	630.23	1122.55	120.96	510.81	872.03	1364.35	362.76
VANO 8	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	204.78	668.55	1012.47	186.64	446.59	910.35	1254.27	428.44
VANO 8	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	134.93	710.23	919.08	242.36	376.74	952.03	1160.88	484.16
VANO 8	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	64.93	751.99	842.15	288.26	306.73	993.80	1083.95	530.06
VANO 8	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	-4.16	793.22	781.45	324.48	237.65	1035.02	1023.25	566.28
VANO 8	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	-4.16	793.22	781.45	324.48	237.65	1035.02	1023.25	566.28
VANO 8	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86	-78.67	837.68	744.35	346.61	163.13	1079.48	986.16	588.41
VANO 8	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-207.97	811.78	651.18	299.17	33.84	1053.59	892.98	540.97
VANO 8	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-261.56	843.76	629.59	312.05	-19.76	1085.56	871.39	553.85
VANO 8	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-303.87	869.01	614.96	320.78	-62.07	1110.81	856.76	562.58
VANO 8	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-303.87	869.01	614.96	320.78	-62.07	1110.81	856.76	562.58
VANO 8	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-332.99	886.38	609.15	324.24	-91.18	1128.18	850.95	566.05
VANO 8	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-350.78	896.99	610.27	323.57	-108.98	1138.80	852.08	565.38
VANO 8	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-357.24	900.85	618.33	318.77	-115.43	1142.65	860.13	560.57
VANO 8	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-352.36	897.94	633.31	309.83	-110.55	1139.74	875.11	551.63
VANO 8	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-352.36	897.94	633.31	309.83	-110.55	1139.74	875.11	551.63
VANO 8	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-336.13	888.25	655.22	296.76	-94.33	1130.06	897.02	538.56
VANO 8	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-308.56	871.80	684.05	279.55	-66.76	1113.61	925.85	521.35
VANO 8	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-269.64	848.58	719.81	258.21	-27.84	1090.39	961.62	500.02
VANO 8	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-229.73	824.77	752.26	238.86	12.07	1066.57	994.06	480.66
VANO 8	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-229.73	824.77	752.26	238.86	12.07	1066.57	994.06	480.66
VANO 8	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-267.82	847.49	721.44	257.24	-26.01	1089.29	963.24	499.04
VANO 8	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-305.06	869.72	687.36	277.58	-63.26	1111.52	929.17	519.38
VANO 8	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-330.96	885.17	660.21	293.78	-89.16	1126.97	902.01	535.58
VANO 8	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-345.52	893.85	639.99	305.84	-103.72	1135.66	881.79	547.65
VANO 8	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-345.52	893.85	639.99	305.84	-103.72	1135.66	881.79	547.65
VANO 8	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-348.73	895.77	626.69	313.78	-106.92	1137.57	868.49	555.58
VANO 8	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-340.60	890.92	620.32	317.58	-98.79	1132.72	862.12	559.38
VANO 8	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-321.13	879.31	620.88	317.25	-79.33	1121.11	862.68	559.05
VANO 8	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-290.35	860.94	628.37	312.78	-48.54	1102.74	870.17	554.58
VANO 8	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-290.35	860.94	628.37	312.78	-48.54	1102.74	870.17	554.58
VANO 8	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-248.25	835.82	642.80	304.17	-6.45	1077.62	884.60	545.97
VANO 8	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-194.87	803.97	664.18	291.41	46.94	1045.77	905.98	533.21
VANO 8	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-130.31	765.45	692.61	274.45	111.49	1007.25	934.41	516.25
VANO 8	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-55.91	721.06	729.41	252.49	185.89	962.86	971.21	494.29
VANO 8	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	-55.91	721.06	729.41	252.49	185.89	962.86	971.21	494.29
VANO 8	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	13.07	679.90	789.81	216.45	254.87	921.70	1031.61	458.26
VANO 8	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	82.99	638.18	866.42	170.74	324.80	879.98	1108.23	412.54
VANO 8	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	152.77	596.55	959.50	115.20	394.57	838.35	1201.30	357.01
VANO 8	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	216.08	558.77	1069.26	49.71	457.88	800.58	1311.06	291.52
VANO 8	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	216.08	558.77	1069.26	49.71	457.88	800.58	1311.06	291.52
VANO 8	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	280.63	520.26	1195.53	-25.62	522.44	762.06	1437.33	216.18
VANO 8	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	345.58	481.50	1337.88	-110.56	587.38	723.31	1579.68	131.24
VANO 8	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	407.35	444.65	1495.80	-204.79	649.16	686.45	1737.61	37.01
VANO 8	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86	422.34	342.71	1282.04	-328.66	634.34	554.72	1494.04	-116.66

	X	VANO 9 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 9	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	423.26	357.93	1283.81	-314.12	626.32	560.98	1486.87	-111.06
VANO 9	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	361.59	406.08	1144.30	-205.16	564.65	609.14	1347.35	-2.11
VANO 9	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	344.19	498.63	1337.43	-94.00	575.78	730.23	1569.03	137.60
VANO 9	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	279.40	537.28	1194.78	-8.89	511.00	768.88	1426.38	222.71
VANO 9	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	214.68	575.90	1068.22	66.63	446.28	807.50	1299.82	298.23
VANO 9	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	214.68	575.90	1068.22	66.63	446.28	807.50	1299.82	298.23
VANO 9	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	150.45	614.22	958.14	132.31	382.05	845.82	1189.74	363.90
VANO 9	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	80.60	655.90	864.75	188.03	312.20	887.50	1096.35	419.63
VANO 9	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	10.60	697.66	787.82	233.93	242.20	929.26	1019.42	465.53
VANO 9	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-58.49	738.89	727.12	270.15	173.11	970.48	958.71	501.75
VANO 9	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-58.49	738.89	727.12	270.15	173.11	970.48	958.71	501.75
VANO 9	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-133.00	783.35	690.02	292.28	98.60	1014.95	921.62	523.88
VANO 9	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-197.76	821.99	661.38	309.37	33.84	1053.59	892.98	540.97
VANO 9	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-251.36	853.96	639.79	322.25	-19.76	1085.56	871.39	553.85
VANO 9	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-293.67	879.21	625.16	330.98	-62.07	1110.81	856.76	562.58
VANO 9	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-293.67	879.21	625.16	330.98	-62.07	1110.81	856.76	562.58
VANO 9	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-322.78	896.58	619.35	334.45	-91.18	1128.18	850.95	566.05
VANO 9	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-340.57	907.20	620.48	333.78	-108.98	1138.80	852.08	565.38
VANO 9	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-347.03	911.05	628.53	328.97	-115.43	1142.65	860.13	560.57
VANO 9	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-342.15	908.14	643.51	320.03	-110.55	1139.74	875.11	551.63
VANO 9	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-342.15	908.14	643.51	320.03	-110.55	1139.74	875.11	551.63
VANO 9	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-325.93	898.46	665.42	306.96	-94.33	1130.06	897.02	538.56
VANO 9	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-298.36	882.01	694.26	289.76	-66.76	1113.61	925.85	521.35
VANO 9	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-259.44	858.79	730.02	268.42	-27.84	1090.39	961.62	500.02
VANO 9	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-219.53	834.97	762.46	249.06	12.07	1066.57	994.06	480.66
VANO 9	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-219.53	834.97	762.46	249.06	12.07	1066.57	994.06	480.66
VANO 9	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-257.61	857.70	731.65	267.45	-26.01	1089.29	963.24	499.04
VANO 9	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-294.86	879.92	697.57	287.78	-63.26	1111.52	929.17	519.38
VANO 9	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-320.76	895.38	670.41	303.98	-89.16	1126.97	902.01	535.58
VANO 9	23.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-335.31	904.06	650.19	316.05	-103.72	1135.66	881.79	547.65
VANO 9	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-335.31	904.06	650.19	316.05	-103.72	1135.66	881.79	547.65
VANO 9	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-338.52	905.97	636.89	323.98	-106.92	1137.57	868.49	555.58
VANO 9	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-330.39	901.12	630.52	327.78	-98.79	1132.72	862.12	559.38
VANO 9	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-310.93	889.51	631.08	327.45	-79.33	1121.11	862.68	559.05
VANO 9	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-280.14	871.14	638.57	322.98	-48.54	1102.74	870.17	554.58
VANO 9	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-280.14	871.14	638.57	322.98	-48.54	1102.74	870.17	554.58
VANO 9	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-238.04	846.02	653.00	314.37	-6.45	1077.62	884.60	545.97
VANO 9	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-184.66	814.17	674.38	301.61	46.94	1045.77	905.98	533.21
VANO 9	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-120.11	775.65	702.81	284.65	111.49	1007.25	934.41	516.25
VANO 9	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-45.71	731.26	739.62	262.69	185.89	962.86	971.21	494.29
VANO 9	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	-45.71	731.26	739.62	262.69	185.89	962.86	971.21	494.29
VANO 9	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	23.27	690.11	800.01	226.66	254.87	921.70	1031.61	458.26
VANO 9	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	93.20	648.38	876.63	180.94	324.80	879.98	1108.23	412.54
VANO 9	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	162.98	606.75	969.70	125.41	394.57	838.35	1201.30	357.01
VANO 9	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	226.28	568.98	1079.47	59.92	457.88	800.58	1311.06	291.52
VANO 9	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	226.28	568.98	1079.47	59.92	457.88	800.58	1311.06	291.52
VANO 9	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	290.84	530.46	1205.73	-15.42	522.44	762.06	1437.33	216.18
VANO 9	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	355.78	491.71	1348.08	-100.36	587.38	723.31	1579.68	131.24
VANO 9	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	369.80	399.68	1151.75	-210.98	572.85	602.74	1354.81	-7.93
VANO 9	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	431.29	351.66	1290.99	-319.72	634.34	554.72	1494.04	-116.66

	X	VANO 10 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 10	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	432.14	366.81	1292.70	-305.23	626.32	560.98	1486.87	-111.06
VANO 10	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	370.48	414.97	1153.18	-196.28	564.65	609.14	1347.35	-2.11
VANO 10	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	354.32	508.76	1347.56	-83.87	575.78	730.23	1569.03	137.60
VANO 10	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	289.54	547.41	1204.91	1.24	511.00	768.88	1426.38	222.71
VANO 10	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	224.81	586.03	1078.35	76.76	446.28	807.50	1299.82	298.23
VANO 10	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	224.81	586.03	1078.35	76.76	446.28	807.50	1299.82	298.23
VANO 10	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	160.58	624.35	968.27	142.44	382.05	845.82	1189.74	363.90
VANO 10	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	90.73	666.03	874.88	198.16	312.20	887.50	1096.35	419.63
VANO 10	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	20.73	707.80	797.95	244.06	242.20	929.26	1019.42	465.53
VANO 10	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-48.35	749.02	737.25	280.28	173.11	970.48	958.71	501.75
VANO 10	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-48.35	749.02	737.25	280.28	173.11	970.48	958.71	501.75
VANO 10	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-122.87	793.48	700.15	302.41	98.60	1014.95	921.62	523.88
VANO 10	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-187.63	832.12	671.51	319.50	33.84	1053.59	892.98	540.97
VANO 10	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-241.22	864.10	649.92	332.38	-19.76	1085.56	871.39	553.85
VANO 10	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-283.54	889.34	635.29	341.11	-62.07	1110.81	856.76	562.58
VANO 10	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-283.54	889.34	635.29	341.11	-62.07	1110.81	856.76	562.58
VANO 10	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-312.65	906.71	629.48	344.58	-91.18	1128.18	850.95	566.05
VANO 10	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-330.44	917.33	630.61	343.91	-108.98	1138.80	852.08	565.38
VANO 10	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-336.90	921.18	638.66	339.10	-115.43	1142.65	860.13	560.57
VANO 10	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-332.02	918.27	653.64	330.16	-110.55	1139.74	875.11	551.63
VANO 10	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-332.02	918.27	653.64	330.16	-110.55	1139.74	875.11	551.63
VANO 10	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-315.80	908.59	675.55	317.09	-94.33	1130.06	897.02	538.56
VANO 10	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-288.23	892.14	704.39	299.89	-66.76	1113.61	925.85	521.35
VANO 10	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-249.31	868.92	740.15	278.55	-27.84	1090.39	961.62	500.02
VANO 10	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-209.39	845.10	772.59	259.19	12.07	1066.57	994.06	480.66
VANO 10	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-209.39	845.10	772.59	259.19	12.07	1066.57	994.06	480.66
VANO 10	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-247.48	867.83	741.78	277.58	-26.01	1089.29	963.24	499.04
VANO 10	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-284.73	890.05	707.70	297.91	-63.26	1111.52	929.17	519.38
VANO 10	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-310.63	905.51	680.55	314.11	-89.16	1126.97	902.01	535.58
VANO 10	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-325.18	914.19	660.32	326.18	-103.72	1135.66	881.79	547.65
VANO 10	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-325.18	914.19	660.32	326.18	-103.72	1135.66	881.79	547.65
VANO 10	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-328.39	916.10	647.02	334.11	-106.92	1137.57	868.49	555.58
VANO 10	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-320.26	911.25	640.65	337.91	-98.79	1132.72	862.12	559.38
VANO 10	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-300.80	899.64	641.21	337.58	-79.33	1121.11	862.68	559.05
VANO 10	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-270.01	881.27	648.70	333.11	-48.54	1102.74	870.17	554.58
VANO 10	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-270.01	881.27	648.70	333.11	-48.54	1102.74	870.17	554.58
VANO 10	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-227.91	856.15	663.13	324.50	-6.45	1077.62	884.60	545.97
VANO 10	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-174.53	824.30	684.52	311.74	46.94	1045.77	905.98	533.21
VANO 10	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-109.97	785.78	712.95	294.78	111.49	1007.25	934.41	516.25
VANO 10	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-35.58	741.39	749.75	272.82	185.89	962.86	971.21	494.29
VANO 10	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	-35.58	741.39	749.75	272.82	185.89	962.86	971.21	494.29
VANO 10	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	33.40	700.24	810.14	236.79	254.87	921.70	1031.61	458.26
VANO 10	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	103.33	658.51	886.76	191.07	324.80	879.98	1108.23	412.54
VANO 10	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	173.11	616.88	979.83	135.54	394.57	838.35	1201.30	357.01
VANO 10	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	236.41	579.11	1089.60	70.05	457.88	800.58	1311.06	291.52
VANO 10	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	236.41	579.11	1089.60	70.05	457.88	800.58	1311.06	291.52
VANO 10	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	300.97	540.59	1215.86	-5.29	522.44	762.06	1437.33	216.18
VANO 10	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	365.92	501.84	1358.22	-90.23	587.38	723.31	1579.68	131.24
VANO 10	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	378.68	408.56	1160.64	-202.10	572.85	602.74	1354.81	-7.93
VANO 10	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	440.17	360.54	1299.87	-310.84	634.34	554.72	1494.04	-116.66

	X	VANO 11 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 11	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	441.11	375.77	1301.66	-296.27	626.32	560.98	1486.87	-111.06
VANO 11	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	379.44	423.93	1162.14	-187.32	564.65	609.14	1347.35	-2.11
VANO 11	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	364.54	518.98	1357.78	-73.64	575.78	730.23	1569.03	137.60
VANO 11	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	299.76	557.64	1215.14	11.47	511.00	768.88	1426.38	222.71
VANO 11	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	235.04	596.25	1088.57	86.98	446.28	807.50	1299.82	298.23
VANO 11	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	235.04	596.25	1088.57	86.98	446.28	807.50	1299.82	298.23
VANO 11	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	170.81	634.58	978.50	152.66	382.05	845.82	1189.74	363.90
VANO 11	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	100.96	676.25	885.10	208.38	312.20	887.50	1096.35	419.63
VANO 11	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	30.96	718.02	808.17	254.29	242.20	929.26	1019.42	465.53
VANO 11	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-38.13	759.24	747.47	290.50	173.11	970.48	958.71	501.75
VANO 11	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-38.13	759.24	747.47	290.50	173.11	970.48	958.71	501.75
VANO 11	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-112.65	803.70	710.38	312.64	98.60	1014.95	921.62	523.88
VANO 11	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-177.41	842.34	681.74	329.73	33.84	1053.59	892.98	540.97
VANO 11	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-231.00	874.32	660.15	342.61	-19.76	1085.56	871.39	553.85
VANO 11	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-273.31	899.56	645.52	351.34	-62.07	1110.81	856.76	562.58
VANO 11	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-273.31	899.56	645.52	351.34	-62.07	1110.81	856.76	562.58
VANO 11	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-302.43	916.94	639.71	354.80	-91.18	1128.18	850.95	566.05
VANO 11	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-320.22	927.55	640.83	354.13	-108.98	1138.80	852.08	565.38
VANO 11	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-326.68	931.41	648.88	349.33	-115.43	1142.65	860.13	560.57
VANO 11	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-321.80	928.49	663.87	340.39	-110.55	1139.74	875.11	551.63
VANO 11	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-321.80	928.49	663.87	340.39	-110.55	1139.74	875.11	551.63
VANO 11	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-305.57	918.81	685.77	327.32	-94.33	1130.06	897.02	538.56
VANO 11	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-278.00	902.36	714.61	310.11	-66.76	1113.61	925.85	521.35
VANO 11	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-239.08	879.14	750.37	288.77	-27.84	1090.39	961.62	500.02
VANO 11	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-199.17	855.33	782.82	269.42	12.07	1066.57	994.06	480.66
VANO 11	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-199.17	855.33	782.82	269.42	12.07	1066.57	994.06	480.66
VANO 11	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-237.26	878.05	752.00	287.80	-26.01	1089.29	963.24	499.04
VANO 11	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-274.51	900.28	717.92	308.14	-63.26	1111.52	929.17	519.38
VANO 11	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-300.41	915.73	690.77	324.34	-89.16	1126.97	902.01	535.58
VANO 11	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-314.96	924.41	670.54	336.40	-103.72	1135.66	881.79	547.65
VANO 11	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-314.96	924.41	670.54	336.40	-103.72	1135.66	881.79	547.65
VANO 11	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-318.17	926.33	657.25	344.34	-106.92	1137.57	868.49	555.58
VANO 11	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-310.04	921.48	650.88	348.14	-98.79	1132.72	862.12	559.38
VANO 11	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-290.58	909.86	651.44	347.80	-79.33	1121.11	862.68	559.05
VANO 11	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-259.79	891.50	658.93	343.33	-48.54	1102.74	870.17	554.58
VANO 11	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-259.79	891.50	658.93	343.33	-48.54	1102.74	870.17	554.58
VANO 11	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-217.69	866.38	673.36	334.73	-6.45	1077.62	884.60	545.97
VANO 11	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-164.31	834.53	694.74	321.97	46.94	1045.77	905.98	533.21
VANO 11	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-99.75	796.01	723.17	305.00	111.49	1007.25	934.41	516.25
VANO 11	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-25.36	751.62	759.97	283.05	185.89	962.86	971.21	494.29
VANO 11	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	-25.36	751.62	759.97	283.05	185.89	962.86	971.21	494.29
VANO 11	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	43.63	710.46	820.36	247.01	254.87	921.70	1031.61	458.26
VANO 11	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	113.55	668.74	896.98	201.30	324.80	879.98	1108.23	412.54
VANO 11	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	183.33	627.10	990.06	145.76	394.57	838.35	1201.30	357.01
VANO 11	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	246.64	589.33	1099.82	80.27	457.88	800.58	1311.06	291.52
VANO 11	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	246.64	589.33	1099.82	80.27	457.88	800.58	1311.06	291.52
VANO 11	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	311.19	550.81	1226.08	4.94	522.44	762.06	1437.33	216.18
VANO 11	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	376.14	512.06	1368.44	-80.00	587.38	723.31	1579.68	131.24
VANO 11	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	387.64	417.53	1169.60	-193.14	572.85	602.74	1354.81	-7.93
VANO 11	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	449.13	369.51	1308.83	-301.87	634.34	554.72	1494.04	-116.66

	X	VANO 12 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 12	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	450.00	384.67	1310.55	-287.38	626.32	560.98	1486.87	-111.06
VANO 12	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	388.33	432.82	1171.04	-178.42	564.65	609.14	1347.35	-2.11
VANO 12	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	374.68	529.13	1367.93	-63.50	575.78	730.23	1569.03	137.60
VANO 12	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	309.90	567.78	1225.28	21.61	511.00	768.88	1426.38	222.71
VANO 12	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	245.18	606.40	1098.71	97.13	446.28	807.50	1299.82	298.23
VANO 12	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	245.18	606.40	1098.71	97.13	446.28	807.50	1299.82	298.23
VANO 12	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	180.95	644.72	988.64	162.80	382.05	845.82	1189.74	363.90
VANO 12	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	111.10	686.39	895.25	218.53	312.20	887.50	1096.35	419.63
VANO 12	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	41.10	728.16	818.31	264.43	242.20	929.26	1019.42	465.53
VANO 12	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-27.99	769.38	757.61	300.65	173.11	970.48	958.71	501.75
VANO 12	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-27.99	769.38	757.61	300.65	173.11	970.48	958.71	501.75
VANO 12	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-102.51	813.84	720.52	322.78	98.60	1014.95	921.62	523.88
VANO 12	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-167.27	852.48	691.88	339.87	33.84	1053.59	892.98	540.97
VANO 12	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-220.86	884.46	670.29	352.75	-19.76	1085.56	871.39	553.85
VANO 12	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-263.17	909.71	655.66	361.48	-62.07	1110.81	856.76	562.58
VANO 12	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-263.17	909.71	655.66	361.48	-62.07	1110.81	856.76	562.58
VANO 12	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-292.29	927.08	649.85	364.94	-91.18	1128.18	850.95	566.05
VANO 12	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-310.08	937.69	650.97	364.27	-108.98	1138.80	852.08	565.38
VANO 12	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-316.54	941.55	659.03	359.47	-115.43	1142.65	860.13	560.57
VANO 12	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-311.66	938.54	674.01	350.53	-110.55	1139.74	875.11	551.63
VANO 12	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-311.66	938.64	674.01	350.53	-110.55	1139.74	875.11	551.63
VANO 12	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-295.43	928.96	695.92	337.46	-94.33	1130.06	897.02	538.56
VANO 12	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-267.86	912.51	724.75	320.25	-66.76	1113.61	925.85	521.35
VANO 12	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-228.94	889.28	760.52	298.91	-27.84	1090.39	961.62	500.02
VANO 12	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-189.03	865.47	792.96	279.56	12.07	1066.57	994.06	480.66
VANO 12	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-189.03	865.47	792.96	279.56	12.07	1066.57	994.06	480.66
VANO 12	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-227.11	888.19	762.14	297.94	-26.01	1089.29	963.24	499.04
VANO 12	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-264.36	910.42	728.06	318.28	-63.26	1111.52	929.17	519.38
VANO 12	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-290.26	925.87	700.91	334.48	-89.16	1126.97	902.01	535.58
VANO 12	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-304.82	934.56	680.69	346.55	-103.72	1135.66	881.79	547.65
VANO 12	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-304.82	934.56	680.69	346.55	-103.72	1135.66	881.79	547.65
VANO 12	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-308.03	936.47	667.39	354.48	-106.92	1137.57	868.49	555.58
VANO 12	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-299.90	931.62	661.02	358.28	-98.79	1132.72	862.12	559.38
VANO 12	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-280.43	920.01	661.58	357.95	-79.33	1121.11	862.68	559.05
VANO 12	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-249.65	901.64	669.07	353.48	-48.54	1102.74	870.17	554.58
VANO 12	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-249.65	901.64	669.07	353.48	-48.54	1102.74	870.17	554.58
VANO 12	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-207.55	876.52	683.50	344.87	-6.45	1077.62	884.60	545.97
VANO 12	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-154.17	844.67	704.88	332.11	46.94	1045.77	905.98	533.21
VANO 12	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-89.61	806.15	733.31	315.15	111.49	1007.25	934.41	516.25
VANO 12	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-15.21	761.76	770.11	293.19	185.89	962.86	971.21	494.29
VANO 12	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	-15.21	761.76	770.11	293.19	185.89	962.86	971.21	494.29
VANO 12	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	53.77	720.60	830.51	257.15	254.87	921.70	1031.61	458.26
VANO 12	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	123.69	678.88	907.12	211.44	324.80	879.98	1108.23	412.54
VANO 12	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	193.47	637.25	1000.20	155.90	394.57	838.35	1201.30	357.01
VANO 12	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	256.78	599.47	1109.96	90.41	457.88	800.58	1311.06	291.52
VANO 12	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	256.78	599.47	1109.96	90.41	457.88	800.58	1311.06	291.52
VANO 12	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	321.33	560.96	1236.23	15.08	522.44	762.06	1437.33	216.18
VANO 12	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	386.28	522.21	1378.58	-69.86	587.38	723.31	1579.68	131.24
VANO 12	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	396.53	426.42	1178.49	-184.25	572.85	602.74	1354.81	-7.93
VANO 12	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	458.02	378.40	1317.73	-292.98	634.34	554.72	1494.04	-116.66

	X	VANO 13 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 13	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	458.92	393.59	1319.47	-278.46	626.32	560.98	1486.87	-111.06
VANO 13	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	397.25	441.74	1179.96	-169.50	564.65	609.14	1347.35	-2.11
VANO 13	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	384.86	539.30	1378.10	-53.33	575.78	730.23	1569.03	137.60
VANO 13	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	320.07	577.95	1235.45	31.78	511.00	768.88	1426.38	222.71
VANO 13	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	255.35	616.57	1108.89	107.30	446.28	807.50	1299.82	298.23
VANO 13	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	255.35	616.57	1108.89	107.30	446.28	807.50	1299.82	298.23
VANO 13	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	191.12	654.89	998.81	172.98	382.05	845.82	1189.74	363.90
VANO 13	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	121.27	696.57	905.42	228.70	312.20	887.50	1096.35	419.63
VANO 13	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	51.27	738.33	828.49	274.60	242.20	929.26	1019.42	465.53
VANO 13	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-17.82	779.56	767.79	310.82	173.11	970.48	958.71	501.75
VANO 13	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-17.82	779.56	767.79	310.82	173.11	970.48	958.71	501.75
VANO 13	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-92.33	824.02	730.69	332.95	98.60	1014.95	921.62	523.88
VANO 13	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-157.09	862.66	702.05	350.04	33.84	1053.59	892.98	540.97
VANO 13	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-210.69	894.63	680.46	362.92	-19.76	1085.56	871.39	553.85
VANO 13	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-253.00	919.88	665.83	371.65	-62.07	1110.81	856.76	562.58
VANO 13	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-253.00	919.88	665.83	371.65	-62.07	1110.81	856.76	562.58
VANO 13	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-282.11	937.25	660.02	375.12	-91.18	1128.18	850.95	566.05
VANO 13	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-299.90	947.87	661.15	374.45	-108.98	1138.80	852.08	565.38
VANO 13	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-306.36	951.72	669.20	369.64	-115.43	1142.65	860.13	560.57
VANO 13	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-301.48	948.81	684.18	360.70	-110.55	1139.74	875.11	551.63
VANO 13	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-301.48	948.81	684.18	360.70	-110.55	1139.74	875.11	551.63
VANO 13	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-285.26	939.13	706.09	347.63	-94.33	1130.06	897.02	538.56
VANO 13	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-257.69	922.68	734.93	330.43	-66.76	1113.61	925.85	521.35
VANO 13	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-218.77	899.46	770.69	309.09	-27.84	1090.39	961.62	500.02
VANO 13	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-178.86	875.64	803.13	289.73	12.07	1066.57	994.06	480.66
VANO 13	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-178.86	875.64	803.13	289.73	12.07	1066.57	994.06	480.66
VANO 13	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-216.94	898.37	772.32	308.12	-26.01	1089.29	963.24	499.04
VANO 13	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-254.19	920.59	738.24	328.45	-63.26	1111.52	929.17	519.38
VANO 13	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-280.09	936.05	711.08	344.65	-89.16	1126.97	902.01	535.58
VANO 13	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-294.64	944.73	690.86	356.72	-103.72	1135.66	881.79	547.65
VANO 13	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-294.64	944.73	690.86	356.72	-103.72	1135.66	881.79	547.65
VANO 13	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-297.85	946.64	677.56	364.65	-106.92	1137.57	868.49	555.58
VANO 13	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-289.72	941.79	671.19	368.45	-98.79	1132.72	862.12	559.38
VANO 13	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-270.26	930.18	671.75	368.12	-79.33	1121.11	862.68	559.05
VANO 13	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-239.47	911.81	679.24	363.65	-48.54	1102.74	870.17	554.58
VANO 13	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-239.47	911.81	679.24	363.65	-48.54	1102.74	870.17	554.58
VANO 13	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-197.37	886.69	693.67	355.04	-6.45	1077.62	884.60	545.97
VANO 13	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-143.99	854.84	715.05	342.28	46.94	1045.77	905.98	533.21
VANO 13	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-79.44	816.32	743.48	325.32	111.49	1007.25	934.41	516.25
VANO 13	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-5.04	771.93	780.29	303.36	185.89	962.86	971.21	494.29
VANO 13	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	-5.04	771.93	780.29	303.36	185.89	962.86	971.21	494.29
VANO 13	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	63.94	730.78	840.68	267.33	254.87	921.70	1031.61	458.26
VANO 13	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	133.87	689.05	917.30	221.61	324.80	879.98	1108.23	412.54
VANO 13	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	203.65	647.42	1010.37	166.08	394.57	838.35	1201.30	357.01
VANO 13	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	266.95	609.65	1120.14	100.59	457.88	800.58	1311.06	291.52
VANO 13	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	266.95	609.65	1120.14	100.59	457.88	800.58	1311.06	291.52
VANO 13	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	331.51	571.13	1246.40	25.25	522.44	762.06	1437.33	216.18
VANO 13	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	396.45	532.38	1388.75	-59.69	587.38	723.31	1579.68	131.24
VANO 13	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	405.45	435.34	1187.41	-175.33	572.85	602.74	1354.81	-7.93
VANO 13	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	466.94	387.32	1326.64	-284.06	634.34	554.72	1494.04	-116.66

	X	VANO 14 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 14	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	467.86	402.53	1328.41	-269.52	626.32	560.98	1486.87	-111.06
VANO 14	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	406.19	450.68	1188.90	-160.56	564.65	609.14	1347.35	-2.11
VANO 14	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	395.05	549.50	1388.30	-43.13	575.78	730.23	1569.03	137.60
VANO 14	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	330.27	588.15	1245.65	41.98	511.00	768.88	1426.38	222.71
VANO 14	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	265.55	626.77	1119.08	117.50	446.28	807.50	1299.82	298.23
VANO 14	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	265.55	626.77	1119.08	117.50	446.28	807.50	1299.82	298.23
VANO 14	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	201.32	665.09	1009.01	183.17	382.05	845.82	1189.74	363.90
VANO 14	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	131.47	706.76	915.62	238.90	312.20	887.50	1096.35	419.63
VANO 14	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	61.47	748.53	838.68	284.80	242.20	929.26	1019.42	465.53
VANO 14	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-7.62	789.75	777.98	321.02	173.11	970.48	958.71	501.75
VANO 14	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-7.62	789.75	777.98	321.02	173.11	970.48	958.71	501.75
VANO 14	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-82.14	834.21	740.89	343.15	98.60	1014.95	921.62	523.88
VANO 14	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-146.90	872.85	712.25	360.24	33.84	1053.59	892.98	540.97
VANO 14	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-200.49	904.83	690.66	373.12	-19.76	1085.56	871.39	553.85
VANO 14	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-242.80	930.08	676.03	381.85	-62.07	1110.81	856.76	562.58
VANO 14	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-242.80	930.08	676.03	381.85	-62.07	1110.81	856.76	562.58
VANO 14	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-271.91	947.45	670.22	385.31	-91.18	1128.18	850.95	566.05
VANO 14	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-289.71	958.06	671.34	384.64	-108.98	1138.80	852.08	565.38
VANO 14	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-296.17	961.92	679.40	379.84	-115.43	1142.65	860.13	560.57
VANO 14	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-291.29	959.01	694.38	370.90	-110.55	1139.74	875.11	551.63
VANO 14	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-291.29	959.01	694.38	370.90	-110.55	1139.74	875.11	551.63
VANO 14	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-275.06	949.33	716.29	357.83	-94.33	1130.06	897.02	538.56
VANO 14	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-247.49	932.88	745.12	340.62	-66.76	1113.61	925.85	521.35
VANO 14	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-208.57	909.65	780.89	319.28	-27.84	1090.39	961.62	500.02
VANO 14	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-168.66	885.84	813.33	299.93	12.07	1066.57	994.06	480.66
VANO 14	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-168.66	885.84	813.33	299.93	12.07	1066.57	994.06	480.66
VANO 14	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-206.74	908.56	782.51	318.31	-26.01	1089.29	963.24	499.04
VANO 14	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-243.99	930.79	748.43	338.65	-63.26	1111.52	929.17	519.38
VANO 14	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-269.89	946.24	721.28	354.85	-89.16	1126.97	902.01	535.58
VANO 14	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-284.45	954.93	701.06	366.92	-103.72	1135.66	881.79	547.65
VANO 14	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-284.45	954.93	701.06	366.92	-103.72	1135.66	881.79	547.65
VANO 14	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-287.66	956.84	687.76	374.85	-106.92	1137.57	868.49	555.58
VANO 14	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-279.53	951.99	681.39	378.65	-98.79	1132.72	862.12	559.38
VANO 14	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-260.06	940.38	681.95	378.32	-79.33	1121.11	862.68	559.05
VANO 14	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-229.28	922.01	689.44	373.85	-48.54	1102.74	870.17	554.58
VANO 14	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-229.28	922.01	689.44	373.85	-48.54	1102.74	870.17	554.58
VANO 14	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-187.18	896.89	703.87	365.24	-6.45	1077.62	884.60	545.97
VANO 14	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-133.80	865.04	725.25	352.48	46.94	1045.77	905.98	533.21
VANO 14	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	-69.24	826.52	753.68	335.52	111.49	1007.25	934.41	516.25
VANO 14	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	5.16	782.13	790.48	313.56	185.89	962.86	971.21	494.29
VANO 14	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	5.16	782.13	790.48	313.56	185.89	962.86	971.21	494.29
VANO 14	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	74.14	740.97	850.88	277.52	254.87	921.70	1031.61	458.26
VANO 14	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	144.06	699.25	927.49	231.81	324.80	879.98	1108.23	412.54
VANO 14	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	213.84	657.62	1020.57	176.27	394.57	838.35	1201.30	357.01
VANO 14	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	277.15	619.84	1130.33	110.78	457.88	800.58	1311.06	291.52
VANO 14	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	277.15	619.84	1130.33	110.78	457.88	800.58	1311.06	291.52
VANO 14	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	341.70	581.33	1256.60	35.45	522.44	762.06	1437.33	216.18
VANO 14	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	406.65	542.58	1398.95	-49.49	587.38	723.31	1579.68	131.24
VANO 14	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	414.39	444.28	1196.35	-166.39	572.85	602.74	1354.81	-7.93
VANO 14	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	475.88	396.26	1335.59	-275.12	634.34	554.72	1494.04	-116.66

	X	VANO 15 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 15	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	476.76	411.43	1337.31	-260.62	626.32	560.98	1486.87	-111.06
VANO 15	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	415.09	459.58	1197.79	-151.66	564.65	609.14	1347.35	-2.11
VANO 15	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	405.20	559.65	1398.45	-32.98	575.78	730.23	1569.03	137.60
VANO 15	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	340.42	598.30	1255.80	52.13	511.00	768.88	1426.38	222.71
VANO 15	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	275.70	636.92	1129.23	127.65	446.28	807.50	1299.82	298.23
VANO 15	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	275.70	636.92	1129.23	127.65	446.28	807.50	1299.82	298.23
VANO 15	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	211.47	675.24	1019.16	193.32	382.05	845.82	1189.74	363.90
VANO 15	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	141.62	716.91	925.77	249.05	312.20	887.50	1096.35	419.63
VANO 15	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	71.62	758.68	848.83	294.95	242.20	929.26	1019.42	465.53
VANO 15	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	2.53	799.90	788.13	331.17	173.11	970.48	958.71	501.75
VANO 15	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	2.53	799.90	788.13	331.17	173.11	970.48	958.71	501.75
VANO 15	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-71.99	844.36	751.04	353.30	98.60	1014.95	921.62	523.88
VANO 15	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-136.75	883.00	722.40	370.39	33.84	1053.59	892.98	540.97
VANO 15	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-190.34	914.98	700.81	383.27	-19.76	1085.56	871.39	553.85
VANO 15	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-232.65	940.23	686.18	392.00	-62.07	1110.81	856.76	562.58
VANO 15	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-232.65	940.23	686.18	392.00	-62.07	1110.81	856.76	562.58
VANO 15	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-261.77	957.60	680.37	395.46	-91.18	1128.18	850.95	566.05
VANO 15	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-279.56	968.21	681.49	394.79	-108.98	1138.80	852.08	565.38
VANO 15	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-286.02	972.07	689.55	389.99	-115.43	1142.65	860.13	560.57
VANO 15	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-281.14	969.16	704.53	381.05	-110.55	1139.74	875.11	551.63
VANO 15	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-281.14	969.16	704.53	381.05	-110.55	1139.74	875.11	551.63
VANO 15	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-264.91	959.48	726.44	367.98	-94.33	1130.06	897.02	538.56
VANO 15	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-237.34	943.03	755.27	350.77	-66.76	1113.61	925.85	521.35
VANO 15	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-198.42	919.80	791.04	329.43	-27.84	1090.39	961.62	500.02
VANO 15	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-158.51	895.99	823.48	310.08	12.07	1066.57	994.06	480.66
VANO 15	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-158.51	895.99	823.48	310.08	12.07	1066.57	994.06	480.66
VANO 15	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-196.59	918.71	792.66	328.46	-26.01	1089.29	963.24	499.04
VANO 15	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-233.84	940.94	758.58	348.80	-63.26	1111.52	929.17	519.38
VANO 15	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-259.74	956.39	731.43	365.00	-89.16	1126.97	902.01	535.58
VANO 15	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-274.30	965.08	711.21	377.07	-103.72	1135.66	881.79	547.65
VANO 15	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-274.30	965.08	711.21	377.07	-103.72	1135.66	881.79	547.65
VANO 15	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-277.51	966.99	697.91	385.00	-106.92	1137.57	868.49	555.58
VANO 15	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-269.38	962.14	691.54	388.80	-98.79	1132.72	862.12	559.38
VANO 15	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-249.91	950.53	692.10	388.47	-79.33	1121.11	862.68	559.05
VANO 15	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-219.13	932.16	699.59	384.00	-48.54	1102.74	870.17	554.58
VANO 15	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-219.13	932.16	699.59	384.00	-48.54	1102.74	870.17	554.58
VANO 15	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-177.03	907.04	714.02	375.39	-6.45	1077.62	884.60	545.97
VANO 15	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-123.65	875.19	735.40	362.63	46.94	1045.77	905.98	533.21
VANO 15	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	-59.09	836.67	763.83	345.67	111.49	1007.25	934.41	516.25
VANO 15	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	15.31	792.28	800.63	323.71	185.89	962.86	971.21	494.29
VANO 15	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	15.31	792.28	800.63	323.71	185.89	962.86	971.21	494.29
VANO 15	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	84.29	751.12	861.03	287.67	254.87	921.70	1031.61	458.26
VANO 15	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	154.21	709.40	937.64	241.96	324.80	879.98	1108.23	412.54
VANO 15	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	223.99	667.77	1030.72	186.42	394.57	838.35	1201.30	357.01
VANO 15	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	287.30	629.99	1140.48	120.93	457.88	800.58	1311.06	291.52
VANO 15	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	287.30	629.99	1140.48	120.93	457.88	800.58	1311.06	291.52
VANO 15	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	351.85	591.48	1266.75	45.60	522.44	762.06	1437.33	216.18
VANO 15	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	416.80	552.73	1409.10	-39.34	587.38	723.31	1579.68	131.24
VANO 15	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	423.29	453.18	1205.25	-157.49	572.85	602.74	1354.81	-7.93
VANO 15	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	484.78	405.16	1344.48	-266.22	634.34	554.72	1494.04	-116.66

	X	VANO 16 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 16	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	485.69	420.36	1346.24	-251.69	626.32	560.98	1486.87	-111.06
VANO 16	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	424.02	468.51	1206.73	-142.73	564.65	609.14	1347.35	-2.11
VANO 16	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	415.39	569.83	1408.63	-22.79	575.78	730.23	1569.03	137.60
VANO 16	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	350.61	608.49	1265.99	62.32	511.00	768.88	1426.38	222.71
VANO 16	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	285.89	647.10	1139.42	137.83	446.28	807.50	1299.82	298.23
VANO 16	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	285.89	647.10	1139.42	137.83	446.28	807.50	1299.82	298.23
VANO 16	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	221.66	685.43	1029.35	203.51	382.05	845.82	1189.74	363.90
VANO 16	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	151.81	727.10	935.95	259.23	312.20	887.50	1096.35	419.63
VANO 16	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	81.81	768.87	859.02	305.14	242.20	929.26	1019.42	465.53
VANO 16	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	12.72	810.09	798.32	341.35	173.11	970.48	958.71	501.75
VANO 16	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	12.72	810.09	798.32	341.35	173.11	970.48	958.71	501.75
VANO 16	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-61.80	854.55	761.23	363.49	98.60	1014.95	921.62	523.88
VANO 16	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-126.56	893.19	732.59	380.58	33.84	1053.59	892.98	540.97
VANO 16	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-180.15	925.17	711.00	393.46	-19.76	1085.56	871.39	553.85
VANO 16	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-222.46	950.41	696.37	402.19	-62.07	1110.81	856.76	562.58
VANO 16	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-222.46	950.41	696.37	402.19	-62.07	1110.81	856.76	562.58
VANO 16	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-251.58	967.79	690.56	405.65	-91.18	1128.18	850.95	566.05
VANO 16	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-269.37	978.40	691.68	404.98	-108.98	1138.80	852.08	565.38
VANO 16	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-275.83	982.26	699.73	400.18	-115.43	1142.65	860.13	560.57
VANO 16	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-270.95	979.34	714.72	391.24	-110.55	1139.74	875.11	551.63
VANO 16	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-270.95	979.34	714.72	391.24	-110.55	1139.74	875.11	551.63
VANO 16	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-254.72	969.66	736.62	378.17	-94.33	1130.06	897.02	538.56
VANO 16	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-227.15	953.21	765.46	360.96	-66.76	1113.61	925.85	521.35
VANO 16	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-188.23	929.99	801.22	339.62	-27.84	1090.39	961.62	500.02
VANO 16	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-148.32	906.18	833.67	320.26	12.07	1066.57	994.06	480.66
VANO 16	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-148.32	906.18	833.67	320.26	12.07	1066.57	994.06	480.66
VANO 16	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-186.41	928.90	802.85	338.65	-26.01	1089.29	963.24	499.04
VANO 16	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	-223.66	951.13	768.77	358.98	-63.26	1111.52	929.17	519.38
VANO 16	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-641.57	-249.41	966.72	741.76	375.33	-89.16	1126.97	902.01	535.58
VANO 16	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-639.00	-263.68	975.69	721.82	387.68	-103.72	1135.66	881.79	547.65
VANO 16	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-639.00	-263.68	975.69	721.82	387.68	-103.72	1135.66	881.79	547.65
VANO 16	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-636.43	-266.61	977.89	708.81	395.90	-106.92	1137.57	868.49	555.58
VANO 16	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-633.86	-258.20	973.32	702.72	399.98	-98.79	1132.72	862.12	559.38
VANO 16	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-631.29	-238.45	961.99	703.56	399.93	-79.33	1121.11	862.68	559.05
VANO 16	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-628.72	-207.38	943.91	711.34	395.74	-48.54	1102.74	870.17	554.58
VANO 16	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-628.72	-207.38	943.91	711.34	395.74	-48.54	1102.74	870.17	554.58
VANO 16	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-626.15	-165.00	919.07	726.05	387.42	-6.45	1077.62	884.60	545.97
VANO 16	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-623.57	-111.33	887.50	747.72	374.95	46.94	1045.77	905.98	533.21
VANO 16	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-621.00	-46.49	849.27	776.43	358.27	111.49	1007.25	934.41	516.25
VANO 16	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-618.43	28.19	805.16	813.52	336.59	185.89	962.86	971.21	494.29
VANO 16	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-618.43	28.19	805.16	813.52	336.59	185.89	962.86	971.21	494.29
VANO 16	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-615.86	97.46	764.29	874.19	300.84	254.87	921.70	1031.61	458.26
VANO 16	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-613.29	167.67	722.85	951.09	255.41	324.80	879.98	1108.23	412.54
VANO 16	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-610.72	237.73	681.50	1044.45	200.16	394.57	838.35	1201.30	357.01
VANO 16	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-608.15	301.32	644.01	1154.50	134.95	457.88	800.58	1311.06	291.52
VANO 16	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-608.15	301.32	644.01	1154.50	134.95	457.88	800.58	1311.06	291.52
VANO 16	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-605.57	366.16	605.78	1281.05	59.90	522.44	762.06	1437.33	216.18
VANO 16	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-603.00	431.39	567.31	1423.69	-24.75	587.38	723.31	1579.68	131.24
VANO 16	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-600.43	436.33	466.21	1218.29	-144.45	572.85	602.74	1354.81	-7.93
VANO 16	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-597.86	498.07	418.44	1357.77	-252.93	634.34	554.72	1494.04	-116.66

	X	VANO 17 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 17	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-597.86	498.96	433.63	1359.52	-238.41	626.32	560.98	1486.87	-111.06
VANO 17	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-595.29	437.55	482.04	1220.25	-129.21	564.65	609.14	1347.35	-2.11
VANO 17	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-592.72	431.10	585.54	1424.34	-7.09	575.78	730.23	1569.03	137.60
VANO 17	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-590.15	366.60	624.48	1281.98	78.31	511.00	768.88	1426.38	222.71
VANO 17	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-587.57	302.16	663.38	1155.70	154.11	446.28	807.50	1299.82	298.23
VANO 17	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-587.57	302.16	663.38	1155.70	154.11	446.28	807.50	1299.82	298.23
VANO 17	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-585.00	238.22	701.98	1045.90	220.07	382.05	845.82	1189.74	363.90
VANO 17	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-582.43	168.65	743.94	952.79	276.08	312.20	887.50	1096.35	419.63
VANO 17	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-579.86	98.93	785.99	876.15	322.26	242.20	929.26	1019.42	465.53
VANO 17	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-577.29	30.13	827.50	815.73	358.76	173.11	970.48	958.71	501.75
VANO 17	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-577.29	30.13	827.50	815.73	358.76	173.11	970.48	958.71	501.75
VANO 17	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-574.72	-44.11	872.24	778.92	381.18	98.60	1014.95	921.62	523.88
VANO 17	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-572.15	-108.58	911.17	750.56	398.55	33.84	1053.59	892.98	540.97
VANO 17	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-569.57	-161.89	943.43	729.26	411.72	-19.76	1085.56	871.39	553.85
VANO 17	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-567.00	-203.92	968.96	714.91	420.73	-62.07	1110.81	856.76	562.58
VANO 17	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-567.00	-203.92	968.96	714.91	420.73	-62.07	1110.81	856.76	562.58
VANO 17	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-564.43	-232.75	986.61	709.39	424.48	-91.18	1128.18	850.95	566.05
VANO 17	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-561.86	-250.26	997.51	710.79	424.09	-108.98	1138.80	852.08	565.38
VANO 17	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-559.29	-256.43	1001.65	719.13	419.57	-115.43	1142.65	860.13	560.57
VANO 17	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-556.72	-251.27	999.02	734.39	410.92	-110.55	1139.74	875.11	551.63
VANO 17	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-556.72	-251.27	999.02	734.39	410.92	-110.55	1139.74	875.11	551.63
VANO 17	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-554.15	-234.76	989.63	756.59	398.13	-94.33	1130.06	897.02	538.56
VANO 17	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-551.57	-206.91	973.46	785.71	381.21	-66.76	1113.61	925.85	521.35
VANO 17	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-549.00	-167.70	950.52	821.75	360.15	-27.84	1090.39	961.62	500.02
VANO 17	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-546.43	-127.51	926.99	854.48	341.08	12.07	1066.57	994.06	480.66
VANO 17	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-546.43	-127.51	926.99	854.48	341.08	12.07	1066.57	994.06	480.66
VANO 17	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-543.86	-165.31	950.00	823.95	359.75	-26.01	1089.29	963.24	499.04
VANO 17	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-541.29	-202.27	972.51	790.15	380.37	-63.26	1111.52	929.17	519.38
VANO 17	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-538.72	-227.89	988.24	763.28	396.85	-89.16	1126.97	902.01	535.58
VANO 17	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-536.15	-242.16	997.21	743.34	409.20	-103.72	1135.66	881.79	547.65
VANO 17	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-536.15	-242.16	997.21	743.34	409.20	-103.72	1135.66	881.79	547.65
VANO 17	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-533.57	-245.09	999.41	730.33	417.42	-106.92	1137.57	868.49	555.58
VANO 17	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-531.00	-236.67	994.84	724.24	421.50	-98.79	1132.72	862.12	559.38
VANO 17	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-528.43	-216.93	983.51	725.09	421.45	-79.33	1121.11	862.68	559.05
VANO 17	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-525.86	-185.85	965.43	732.86	417.27	-48.54	1102.74	870.17	554.58
VANO 17	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-525.86	-185.85	965.43	732.86	417.27	-48.54	1102.74	870.17	554.58
VANO 17	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-523.29	-143.47	940.59	747.57	408.94	-6.45	1077.62	884.60	545.97
VANO 17	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-520.72	-89.81	909.03	769.24	396.47	46.94	1045.77	905.98	533.21
VANO 17	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-518.15	-24.97	870.79	797.95	379.79	111.49	1007.25	934.41	516.25
VANO 17	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-515.57	49.71	826.69	835.04	358.12	185.89	962.86	971.21	494.29
VANO 17	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-515.57	49.71	826.69	835.04	358.12	185.89	962.86	971.21	494.29
VANO 17	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-513.00	118.98	785.81	895.72	322.36	254.87	921.70	1031.61	458.26
VANO 17	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-510.43	189.19	744.37	972.62	276.93	324.80	879.98	1108.23	412.54
VANO 17	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-507.86	259.25	703.02	1065.98	221.68	394.57	838.35	1201.30	357.01
VANO 17	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-505.29	322.84	665.54	1176.02	156.48	457.88	800.58	1311.06	291.52
VANO 17	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-505.29	322.84	665.54	1176.02	156.48	457.88	800.58	1311.06	291.52
VANO 17	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-502.72	387.68	627.30	1302.57	81.42	522.44	762.06	1437.33	216.18
VANO 17	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-500.15	452.91	588.83	1445.21	-3.23	587.38	723.31	1579.68	131.24
VANO 17	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-497.57	455.20	485.09	1237.16	-125.58	572.85	602.74	1354.81	-7.93
VANO 17	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-495.00	516.94	437.31	1376.64	-234.06	634.34	554.72	1494.04	-116.66

	X	VANO 18 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 18	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-495.00	517.82	452.49	1378.38	-219.55	626.32	560.98	1486.87	-111.06
VANO 18	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-492.43	456.41	500.90	1239.11	-110.35	564.65	609.14	1347.35	-2.11
VANO 18	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-489.86	452.61	607.05	1445.85	14.42	575.78	730.23	1569.03	137.60
VANO 18	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-487.29	388.11	645.99	1303.49	99.82	511.00	768.88	1426.38	222.71
VANO 18	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-484.72	323.67	684.89	1177.21	175.62	446.28	807.50	1299.82	298.23
VANO 18	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-484.72	323.67	684.89	1177.21	175.62	446.28	807.50	1299.82	298.23
VANO 18	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-482.15	259.73	723.50	1067.42	241.58	382.05	845.82	1189.74	363.90
VANO 18	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-479.57	190.16	765.46	974.31	297.59	312.20	887.50	1096.35	419.63
VANO 18	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-477.00	120.45	807.51	897.66	343.77	242.20	929.26	1019.42	465.53
VANO 18	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-474.43	51.64	849.01	837.24	380.28	173.11	970.48	958.71	501.75
VANO 18	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-474.43	51.64	849.01	837.24	380.28	173.11	970.48	958.71	501.75
VANO 18	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-471.86	-22.59	893.76	800.43	402.69	98.60	1014.95	921.62	523.88
VANO 18	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-469.29	-87.07	932.68	772.07	420.07	33.84	1053.59	892.98	540.97
VANO 18	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-466.72	-140.38	964.94	750.77	433.23	-19.76	1085.56	871.39	553.85
VANO 18	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-464.14	-182.41	990.47	736.42	442.24	-62.07	1110.81	856.76	562.58
VANO 18	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-464.14	-182.41	990.47	736.42	442.24	-62.07	1110.81	856.76	562.58
VANO 18	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-461.57	-211.24	1008.13	730.90	445.99	-91.18	1128.18	850.95	566.05
VANO 18	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-459.00	-228.74	1019.03	732.31	445.61	-108.98	1138.80	852.08	565.38
VANO 18	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-456.43	-234.92	1023.16	740.64	441.08	-115.43	1142.65	860.13	560.57
VANO 18	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-453.86	-229.76	1020.54	755.91	432.43	-110.55	1139.74	875.11	551.63
VANO 18	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-453.86	-229.76	1020.54	755.91	432.43	-110.55	1139.74	875.11	551.63
VANO 18	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-451.29	-213.25	1011.14	778.10	419.64	-94.33	1130.06	897.02	538.56
VANO 18	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-448.72	-185.39	994.97	807.22	402.72	-66.76	1113.61	925.85	521.35
VANO 18	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-446.14	-146.19	972.03	843.27	381.67	-27.84	1090.39	961.62	500.02
VANO 18	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-443.57	-105.99	948.50	875.99	362.59	12.07	1066.57	994.06	480.66
VANO 18	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-443.57	-105.99	948.50	875.99	362.59	12.07	1066.57	994.06	480.66
VANO 18	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-441.00	-143.80	971.51	845.46	381.26	-26.01	1089.29	963.24	499.04
VANO 18	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-438.43	-180.76	994.02	811.67	401.88	-63.26	1111.52	929.17	519.38
VANO 18	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-435.86	-206.38	1009.76	784.80	418.36	-89.16	1126.97	902.01	535.58
VANO 18	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-433.29	-220.65	1018.73	764.86	430.72	-103.72	1135.66	881.79	547.65
VANO 18	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-433.29	-220.65	1018.73	764.86	430.72	-103.72	1135.66	881.79	547.65
VANO 18	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-430.72	-223.57	1020.92	751.84	438.93	-106.92	1137.57	868.49	555.58
VANO 18	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-428.14	-215.16	1016.36	745.76	443.02	-98.79	1132.72	862.12	559.38
VANO 18	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-425.57	-195.41	1005.03	746.60	442.97	-79.33	1121.11	862.68	559.05
VANO 18	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-423.00	-164.34	986.94	754.38	438.78	-48.54	1102.74	870.17	554.58
VANO 18	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-423.00	-164.34	986.94	754.38	438.78	-48.54	1102.74	870.17	554.58
VANO 18	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-420.43	-121.96	962.11	769.09	430.46	-6.45	1077.62	884.60	545.97
VANO 18	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-417.86	-68.29	930.54	790.75	417.98	46.94	1045.77	905.98	533.21
VANO 18	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-415.29	-3.45	892.31	819.47	401.30	111.49	1007.25	934.41	516.25
VANO 18	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-412.72	71.23	848.20	856.55	379.63	185.89	962.86	971.21	494.29
VANO 18	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-412.72	71.23	848.20	856.55	379.63	185.89	962.86	971.21	494.29
VANO 18	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-410.14	140.49	807.33	917.23	343.88	254.87	921.70	1031.61	458.26
VANO 18	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-407.57	210.70	765.89	994.13	298.45	324.80	879.98	1108.23	412.54
VANO 18	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-405.00	280.76	724.54	1087.49	243.20	394.57	838.35	1201.30	357.01
VANO 18	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-402.43	344.35	687.05	1197.54	177.99	457.88	800.58	1311.06	291.52
VANO 18	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-402.43	344.35	687.05	1197.54	177.99	457.88	800.58	1311.06	291.52
VANO 18	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-399.86	409.19	648.82	1324.08	102.94	522.44	762.06	1437.33	216.18
VANO 18	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-397.29	474.42	610.35	1466.72	18.28	587.38	723.31	1579.68	131.24
VANO 18	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-394.72	474.06	503.95	1256.02	-106.72	572.85	602.74	1354.81	-7.93
VANO 18	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-392.14	535.80	456.18	1395.50	-215.20	634.34	554.72	1494.04	-116.66

	X	VANO 19 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 19	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-392.14	536.71	471.38	1397.27	-200.66	626.32	560.98	1486.87	-111.06
VANO 19	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-389.57	475.30	519.79	1258.00	-91.46	564.65	609.14	1347.35	-2.11
VANO 19	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-387.00	474.16	628.60	1467.40	35.97	575.78	730.23	1569.03	137.60
VANO 19	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-384.43	409.66	667.53	1325.04	121.36	511.00	768.88	1426.38	222.71
VANO 19	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-381.86	345.22	706.44	1198.75	197.17	446.28	807.50	1299.82	298.23
VANO 19	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-381.86	345.22	706.44	1198.75	197.17	446.28	807.50	1299.82	298.23
VANO 19	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-379.29	281.27	745.04	1088.96	263.13	382.05	845.82	1189.74	363.90
VANO 19	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-376.72	211.71	787.00	995.85	319.13	312.20	887.50	1096.35	419.63
VANO 19	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-374.14	141.99	829.05	919.21	365.32	242.20	929.26	1019.42	465.53
VANO 19	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-371.57	73.19	870.56	858.79	401.82	173.11	970.48	958.71	501.75
VANO 19	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-371.57	73.19	870.56	858.79	401.82	173.11	970.48	958.71	501.75
VANO 19	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-369.00	-1.05	915.30	821.98	424.24	98.60	1014.95	921.62	523.88
VANO 19	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-366.43	-65.52	954.23	793.62	441.61	33.84	1053.59	892.98	540.97
VANO 19	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-363.86	-118.83	986.49	772.32	454.77	-19.76	1085.56	871.39	553.85
VANO 19	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-361.29	-160.86	1012.02	757.97	463.79	-62.07	1110.81	856.76	562.58
VANO 19	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-361.29	-160.86	1012.02	757.97	463.79	-62.07	1110.81	856.76	562.58
VANO 19	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-358.72	-189.69	1029.67	752.44	467.54	-91.18	1128.18	850.95	566.05
VANO 19	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-356.14	-207.20	1040.57	753.85	467.15	-108.98	1138.80	852.08	565.38
VANO 19	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-353.57	-213.37	1044.71	762.19	462.63	-115.43	1142.65	860.13	560.57
VANO 19	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-351.00	-208.21	1042.08	777.45	453.98	-110.55	1139.74	875.11	551.63
VANO 19	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-351.00	-208.21	1042.08	777.45	453.98	-110.55	1139.74	875.11	551.63
VANO 19	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-348.43	-191.70	1032.68	799.65	441.19	-94.33	1130.06	897.02	538.56
VANO 19	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-345.86	-163.85	1016.52	828.77	424.27	-66.76	1113.61	925.85	521.35
VANO 19	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-343.29	-124.64	993.58	864.81	403.21	-27.84	1090.39	961.62	500.02
VANO 19	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-340.72	-84.45	970.05	897.54	384.14	12.07	1066.57	994.06	480.66
VANO 19	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-340.72	-84.45	970.05	897.54	384.14	12.07	1066.57	994.06	480.66
VANO 19	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-338.14	-122.25	993.06	867.01	402.81	-26.01	1089.29	963.24	499.04
VANO 19	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-335.57	-159.22	1015.57	833.21	423.42	-63.26	1111.52	929.17	519.38
VANO 19	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-333.00	-184.83	1031.30	806.34	439.91	-89.16	1126.97	902.01	535.58
VANO 19	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-330.43	-199.10	1040.27	786.40	452.26	-103.72	1135.66	881.79	547.65
VANO 19	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-330.43	-199.10	1040.27	786.40	452.26	-103.72	1135.66	881.79	547.65
VANO 19	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-327.86	-202.03	1042.47	773.39	460.48	-106.92	1137.57	868.49	555.58
VANO 19	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-325.29	-193.61	1037.90	767.30	464.56	-98.79	1132.72	862.12	559.38
VANO 19	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-322.72	-173.87	1026.57	768.15	464.51	-79.33	1121.11	862.68	559.05
VANO 19	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-320.14	-142.80	1008.49	775.92	460.33	-48.54	1102.74	870.17	554.58
VANO 19	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-320.14	-142.80	1008.49	775.92	460.33	-48.54	1102.74	870.17	554.58
VANO 19	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-317.57	-100.41	983.65	790.63	452.00	-6.45	1077.62	884.60	545.97
VANO 19	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-315.00	-46.75	952.09	812.30	439.53	46.94	1045.77	905.98	533.21
VANO 19	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-312.43	18.09	913.85	841.01	422.85	111.49	1007.25	934.41	516.25
VANO 19	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-309.86	92.77	869.75	878.10	401.17	185.89	962.86	971.21	494.29
VANO 19	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-309.86	92.77	869.75	878.10	401.17	185.89	962.86	971.21	494.29
VANO 19	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-307.29	162.04	828.87	938.78	365.42	254.87	921.70	1031.61	458.26
VANO 19	40.80	-1679.77	1498.41	-2851.17	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-304.72	232.25	787.43	1015.68	319.99	324.80	879.98	1108.23	412.54
VANO 19	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-302.14	302.31	746.08	1109.04	264.74	394.57	838.35	1201.30	357.01
VANO 19	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-299.57	365.90	708.59	1219.08	199.53	457.88	800.58	1311.06	291.52
VANO 19	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-299.57	365.90	708.59	1219.08	199.53	457.88	800.58	1311.06	291.52
VANO 19	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-297.00	430.74	670.36	1345.63	124.48	522.44	762.06	1437.33	216.18
VANO 19	45.50	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-294.43	495.97	631.89	1488.27	39.83	587.38	723.31	1579.68	131.24
VANO 19	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-291.86	492.95	522.84	1274.91	-87.83	572.85	602.74	1354.81	-7.93
VANO 19	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-289.29	554.69	475.07	1414.39	-196.31	634.34	554.72	1494.04	-116.66

	X	VANO 20 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 20	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-289.29	555.56	490.23	1416.12	-181.81	626.32	560.98	1486.87	-111.06
VANO 20	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-286.72	494.15	538.64	1276.85	-72.61	564.65	609.14	1347.35	-2.11
VANO 20	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-284.14	495.66	650.10	1488.90	57.47	575.78	730.23	1569.03	137.60
VANO 20	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-281.57	431.16	689.03	1346.54	142.87	511.00	768.88	1426.38	222.71
VANO 20	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-279.00	366.72	727.94	1220.25	218.67	446.28	807.50	1299.82	298.23
VANO 20	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-279.00	366.72	727.94	1220.25	218.67	446.28	807.50	1299.82	298.23
VANO 20	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-276.43	302.77	766.54	1110.46	284.63	382.05	845.82	1189.74	363.90
VANO 20	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-273.86	233.21	808.50	1017.35	340.63	312.20	887.50	1096.35	419.63
VANO 20	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-271.29	163.49	850.55	940.71	386.82	242.20	929.26	1019.42	465.53
VANO 20	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-268.72	94.69	892.06	880.29	423.32	173.11	970.48	958.71	501.75
VANO 20	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-268.72	94.69	892.06	880.29	423.32	173.11	970.48	958.71	501.75
VANO 20	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-266.14	20.45	936.80	843.48	445.74	98.60	1014.95	921.62	523.88
VANO 20	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-263.57	-44.02	975.73	815.12	463.11	33.84	1053.59	892.98	540.97
VANO 20	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-261.00	-97.33	1007.99	793.82	476.27	-19.76	1085.56	871.39	553.85
VANO 20	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-258.43	-139.36	1033.52	779.47	485.29	-62.07	1110.81	856.76	562.58
VANO 20	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-258.43	-139.36	1033.52	779.47	485.29	-62.07	1110.81	856.76	562.58
VANO 20	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-255.86	-168.19	1051.17	773.94	489.04	-91.18	1128.18	850.95	566.05
VANO 20	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-253.29	-185.70	1062.07	775.35	488.65	-108.98	1138.80	852.08	565.38
VANO 20	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-250.72	-191.87	1066.21	783.69	484.13	-115.43	1142.65	860.13	560.57
VANO 20	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-248.14	-186.71	1063.58	798.95	475.48	-110.55	1139.74	875.11	551.63
VANO 20	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-248.14	-186.71	1063.58	798.95	475.48	-110.55	1139.74	875.11	551.63
VANO 20	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-245.57	-170.20	1054.18	821.15	462.69	-94.33	1130.06	897.02	538.56
VANO 20	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-243.00	-142.35	1038.02	850.27	445.77	-66.76	1113.61	925.85	521.35
VANO 20	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-240.43	-103.14	1015.08	886.31	424.71	-27.84	1090.39	961.62	500.02
VANO 20	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-237.86	-62.95	991.55	919.04	405.64	12.07	1066.57	994.06	480.66
VANO 20	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-237.86	-62.95	991.55	919.04	405.64	12.07	1066.57	994.06	480.66
VANO 20	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-235.29	-100.75	1014.56	888.51	424.31	-26.01	1089.29	963.24	499.04
VANO 20	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-232.72	-137.72	1037.07	854.71	444.92	-63.26	1111.52	929.17	519.38
VANO 20	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-230.14	-163.33	1052.80	827.84	461.41	-89.16	1126.97	902.01	535.58
VANO 20	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-227.57	-177.60	1061.77	807.90	473.76	-103.72	1135.66	881.79	547.65
VANO 20	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-227.57	-177.60	1061.77	807.90	473.76	-103.72	1135.66	881.79	547.65
VANO 20	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-225.00	-180.53	1063.97	794.89	481.98	-106.92	1137.57	868.49	555.58
VANO 20	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-222.43	-172.11	1059.40	788.80	486.06	-98.79	1132.72	862.12	559.38
VANO 20	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-219.86	-152.37	1048.07	789.65	486.01	-79.33	1121.11	862.68	559.05
VANO 20	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-217.29	-121.30	1029.99	797.42	481.83	-48.54	1102.74	870.17	554.58
VANO 20	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-217.29	-121.30	1029.99	797.42	481.83	-48.54	1102.74	870.17	554.58
VANO 20	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-214.72	-78.91	1005.15	812.13	473.50	-6.45	1077.62	884.60	545.97
VANO 20	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-212.14	-25.25	973.59	833.80	461.03	46.94	1045.77	905.98	533.21
VANO 20	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-209.57	39.59	935.35	862.51	444.35	111.49	1007.25	934.41	516.25
VANO 20	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-207.00	114.27	891.25	899.60	422.67	185.89	962.86	971.21	494.29
VANO 20	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-207.00	114.27	891.25	899.60	422.67	185.89	962.86	971.21	494.29
VANO 20	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-204.43	183.54	850.37	960.28	386.92	254.87	921.70	1031.61	458.26
VANO 20	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-201.86	253.75	808.93	1037.18	341.49	324.80	879.98	1108.23	412.54
VANO 20	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-199.29	323.81	767.58	1130.54	286.24	394.57	838.35	1201.30	357.01
VANO 20	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-196.72	387.40	730.09	1240.58	221.03	457.88	800.58	1311.06	291.52
VANO 20	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-196.72	387.40	730.09	1240.58	221.03	457.88	800.58	1311.06	291.52
VANO 20	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-194.14	452.24	691.86	1367.13	145.98	522.44	762.06	1437.33	216.18
VANO 20	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-191.57	517.47	653.39	1509.77	61.33	587.38	723.31	1579.68	131.24
VANO 20	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-189.00	511.80	541.69	1293.76	-68.98	572.85	602.74	1354.81	-7.93
VANO 20	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-186.43	573.54	493.92	1433.24	-177.46	634.34	554.72	1494.04	-116.66

VANO 21	X	CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 21	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-186.43	574.46	509.13	1435.02	-162.91	626.32	560.98	1486.87	-111.06
VANO 21	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-183.86	513.05	557.54	1295.75	-53.71	564.65	609.14	1347.35	-2.11
VANO 21	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-181.29	517.21	671.65	1510.45	79.02	575.78	730.23	1569.03	137.60
VANO 21	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-178.72	452.71	710.59	1368.09	164.42	511.00	768.88	1426.38	222.71
VANO 21	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-176.14	388.27	749.49	1241.81	240.22	446.28	807.50	1299.82	298.23
VANO 21	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-176.14	388.27	749.49	1241.81	240.22	446.28	807.50	1299.82	298.23
VANO 21	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-173.57	324.33	788.10	1132.02	306.18	382.05	845.82	1189.74	363.90
VANO 21	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-171.00	254.76	830.06	1038.91	362.19	312.20	887.50	1096.35	419.63
VANO 21	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-168.43	185.04	872.11	962.26	408.37	242.20	929.26	1019.42	465.53
VANO 21	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-165.86	116.24	913.61	901.84	444.88	173.11	970.48	958.71	501.75
VANO 21	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-165.86	116.24	913.61	901.84	444.88	173.11	970.48	958.71	501.75
VANO 21	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-163.29	42.01	958.36	865.03	467.29	98.60	1014.95	921.62	523.88
VANO 21	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-160.72	-22.47	997.28	836.67	484.66	33.84	1053.59	892.98	540.97
VANO 21	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-158.14	-75.78	1029.54	815.37	497.83	-19.76	1085.56	871.39	553.85
VANO 21	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-155.57	-117.81	1055.07	801.02	506.84	-62.07	1110.81	856.76	562.58
VANO 21	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-155.57	-117.81	1055.07	801.02	506.84	-62.07	1110.81	856.76	562.58
VANO 21	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-153.00	-146.64	1072.73	795.50	510.59	-91.18	1128.18	850.95	566.05
VANO 21	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-150.43	-164.15	1083.63	796.91	510.21	-108.98	1138.80	852.08	565.38
VANO 21	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-147.86	-170.32	1087.76	805.24	505.68	-115.43	1142.65	860.13	560.57
VANO 21	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-145.29	-165.16	1085.14	820.51	497.03	-110.55	1139.74	875.11	551.63
VANO 21	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-145.29	-165.16	1085.14	820.51	497.03	-110.55	1139.74	875.11	551.63
VANO 21	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-142.71	-148.65	1075.74	842.70	484.24	-94.33	1130.06	897.02	538.56
VANO 21	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-140.14	-120.79	1059.57	871.82	467.32	-66.76	1113.61	925.85	521.35
VANO 21	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-137.57	-81.59	1036.63	907.87	446.27	-27.84	1090.39	961.62	500.02
VANO 21	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-135.00	-41.39	1013.10	940.59	427.19	12.07	1066.57	994.06	480.66
VANO 21	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-135.00	-41.39	1013.10	940.59	427.19	12.07	1066.57	994.06	480.66
VANO 21	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-132.43	-79.20	1036.11	910.06	445.86	-26.01	1089.29	963.24	499.04
VANO 21	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-129.86	-116.16	1058.62	876.27	466.48	-63.26	1111.52	929.17	519.38
VANO 21	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-127.29	-141.78	1074.36	849.40	482.96	-89.16	1126.97	902.01	535.58
VANO 21	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-124.71	-156.05	1083.32	829.46	495.31	-103.72	1135.66	881.79	547.65
VANO 21	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-124.71	-156.05	1083.32	829.46	495.31	-103.72	1135.66	881.79	547.65
VANO 21	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-122.14	-158.97	1085.52	816.44	503.53	-106.92	1137.57	868.49	555.58
VANO 21	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-119.57	-150.56	1080.96	810.36	507.62	-98.79	1132.72	862.12	559.38
VANO 21	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-117.00	-130.81	1069.63	811.20	507.57	-79.33	1121.11	862.68	559.05
VANO 21	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-114.43	-99.74	1051.54	818.97	503.38	-48.54	1102.74	870.17	554.58
VANO 21	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-114.43	-99.74	1051.54	818.97	503.38	-48.54	1102.74	870.17	554.58
VANO 21	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-111.86	-57.36	1026.71	833.69	495.06	-6.45	1077.62	884.60	545.97
VANO 21	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-109.29	-3.69	995.14	855.35	482.58	46.94	1045.77	905.98	533.21
VANO 21	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-106.71	61.15	956.90	884.07	465.90	111.49	1007.25	934.41	516.25
VANO 21	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-104.14	135.83	912.80	921.15	444.23	185.89	962.86	971.21	494.29
VANO 21	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-104.14	135.83	912.80	921.15	444.23	185.89	962.86	971.21	494.29
VANO 21	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-101.57	205.09	871.93	981.83	408.48	254.87	921.70	1031.61	458.26
VANO 21	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-99.00	275.30	830.49	1058.73	363.05	324.80	879.98	1108.23	412.54
VANO 21	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-96.43	345.36	789.14	1152.09	307.80	394.57	838.35	1201.30	357.01
VANO 21	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-93.86	408.95	751.65	1262.14	242.59	457.88	800.58	1311.06	291.52
VANO 21	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-93.86	408.95	751.65	1262.14	242.59	457.88	800.58	1311.06	291.52
VANO 21	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-91.29	473.79	713.41	1388.68	167.54	522.44	762.06	1437.33	216.18
VANO 21	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-88.71	539.02	674.95	1531.32	82.88	587.38	723.31	1579.68	131.24
VANO 21	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-86.14	530.70	560.59	1312.66	-50.08	572.85	602.74	1354.81	-7.93
VANO 21	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-83.57	592.44	512.81	1452.14	-158.56	634.34	554.72	1494.04	-116.66

VANO 22	X	CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 22	0.00	-6859.13	712.94	-5707.47	1090.33	-43.08	704.60	0.00	2955.05	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-83.57	598.94	375.26	1341.80	-204.87	631.84	408.17	1374.71	-171.97
VANO 22	0.98	-6015.19	701.84	-5137.30	1063.07	-42.00	686.98	0.98	2809.16	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-81.48	541.38	420.57	1227.83	-115.51	574.09	453.27	1260.53	-82.80
VANO 22	1.95	-5205.59	700.27	-4614.60	1035.81	-40.93	669.37	1.95	2545.19	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-79.39	572.26	521.30	1456.37	-6.22	609.33	558.36	1493.44	30.85
VANO 22	2.93	-4430.32	713.09	-4142.98	1008.56	-39.85	651.75	2.93	2281.23	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-77.30	512.49	557.33	1333.39	67.53	549.32	594.17	1370.23	104.37
VANO 22	3.90	-3689.38	824.27	-3726.42	981.30	-38.77	634.14	3.90	2017.26	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-75.21	444.69	598.15	1221.61	134.59	481.30	634.75	1258.22	171.20
VANO 22	3.90	-3689.38	824.27	-3726.42	981.30	-38.77	634.14	3.90	2017.26	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-75.21	444.69	598.15	1221.61	134.59	481.30	634.75	1258.22	171.20
VANO 22	4.88	-2982.77	968.70	-3369.37	954.04	-37.69	616.52	4.88	1753.29	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-73.13	377.04	638.88	1121.58	194.65	413.41	675.26	1157.95	231.02
VANO 22	5.85	-2310.50	1144.49	-3076.77	926.78	-36.62	598.91	5.85	1489.33	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-71.04	309.75	679.40	1033.91	247.32	345.90	715.55	1070.06	283.47
VANO 22	6.83	-1672.56	1432.19	-2854.11	899.52	-35.54	581.29	6.83	1225.36	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-68.95	232.75	725.71	959.30	292.21	268.67	761.63	995.22	328.12
VANO 22	7.80	-1068.95	1786.72	-2701.98	872.26	-34.46	563.68	7.80	961.40	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-66.86	151.68	774.45	897.82	329.26	187.37	810.13	933.51	364.94
VANO 22	7.80	-1068.95	1786.72	-2701.98	872.26	-34.46	563.68	7.80	961.40	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-66.86	151.68	774.45	897.82	329.26	187.37	810.13	933.51	364.94
VANO 22	8.78	-499.67	2132.30	-2568.91	845.01	-33.39	546.06	8.78	697.43	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-64.77	76.03	819.95	843.03	362.32	111.49	855.41	878.48	397.77
VANO 22	9.75	35.28	2453.54	-2440.19	817.75	-32.31	528.45	9.75	433.47	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-62.68	7.73	861.08	793.08	392.49	42.95	896.30	828.30	427.71
VANO 22	10.73	535.90	2761.67	-2327.15	790.49	-31.23	510.83	10.73	169.50	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-60.59	-54.63	898.65	749.39	418.93	-19.64	933.65	784.38	453.92
VANO 22	11.70	1002.18	3043.14	-2216.29	763.23	-30.16	493.22	11.70	-94.47	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-58.50	-109.36	931.67	710.27	442.63	-74.60	966.44	745.03	477.40
VANO 22	11.70	1002.18	3043.14	-2216.29	763.23	-30.16	493.22	11.70	-94.47	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-58.50	-109.36	931.67	710.27	442.63	-74.60	966.44	745.03	477.40
VANO 22	12.68	1434.13	3297.91	-2107.62	735.97	-29.08	475.60	12.68	-358.43	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-56.41	-156.44	960.13	675.73	463.61	-121.91	994.67	710.26	498.75
VANO 22	13.65	1831.75	3525.92	-2001.14	708.71	-28.00	457.99	13.65	-622.40	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-54.32	-195.88	984.03	645.75	481.86	-161.58	1018.33	680.06	516.17
VANO 22	14.63	2195.04	3727.16	-1896.84	681.46	-26.92	440.37	14.63	-886.36	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-52.23	-227.66	1003.36	620.35	497.39	-193.59	1037.44	654.43	531.46
VANO 22	15.60	2524.00	3901.57	-1794.73	654.20	-25.85	422.76	15.60	-1150.33	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-50.14	-251.79	1018.13	599.53	510.18	-217.95	1051.97	633.37	544.02
VANO 22	15.60	2524.00	3901.57	-1794.73	654.20	-25.85	422.76	15.60	-1150.33	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-50.14	-251.79	1018.13	599.53	510.18	-217.95	1051.97	633.37	544.02
VANO 22	16.58	2818.62	4049.14	-1694.81	626.94	-24.77	405.14	16.58	-1414.29	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-48.05	-268.26	1028.32	583.27	520.25	-234.65	1061.93	616.88	553.86
VANO 22	17.55	3078.92	4169.84	-1597.07	599.68	-23.69	387.53	17.55	-1678.26	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-45.96	-277.06	1033.94	571.59	527.59	-243.68	1067.32	604.97	560.97
VANO 22	18.53	3304.88	4263.65	-1501.52	572.42	-22.62	369.91	18.53	-1942.22	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-43.88	-278.20	1034.99	564.48	532.20	-245.05	1068.14	597.63	565.35
VANO 22	19.50	3496.51	4330.55	-1408.15	545.17	-21.54	352.30	19.50	-2206.19	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-41.79	-271.67	1031.46	561.94	534.08	-238.75	1064.38	594.86	567.00
VANO 22	19.50	3496.51	4330.55	-1408.15	545.17	-21.54	352.30	19.50	-2206.19	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-41.79	-271.67	1031.46	561.94	534.08	-238.75	1064.38	594.86	567.00
VANO 22	20.48	3653.80	4370.53	-1320.20	517.91	-20.46	334.68	20.48	-2470.16	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-39.70	-257.47	1023.36	564.38	532.99	-224.78	1056.05	597.07	565.68
VANO 22	21.45	3776.77	4383.56	-1250.71	490.65	-19.39	317.07	21.45	-2734.12	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-37.61	-235.60	1010.68	573.43	527.96	-203.14	1043.13	605.89	560.42
VANO 22	22.43	3865.40	4369.64	-1181.23	463.39	-18.31	299.45	22.43	-2956.76	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-35.52	-211.23	996.50	581.61	523.45	-179.00	1028.73	613.83	555.68
VANO 22	23.40	3919.71	4328.75	-1111.75	436.13	-17.23	281.84	23.40	-2796.66	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-33.43	-227.10	1006.34	546.16	544.97	-195.11	1038.34	578.15	576.97
VANO 22	23.40	3919.71	4328.75	-1111.75	436.13	-17.23	281.84	23.40	-2796.66	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-33.43	-227.10	1006.34	546.16	544.97	-195.11	1038.34	578.15	576.97
VANO 22	24.38	3939.68	4260.89	-1042.26	408.87	-16.15	264.22	24.38	-2539.64	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-31.34	-247.44	1018.85	502.87	571.17	-215.67	1050.61	534.64	602.93
VANO 22	25.35	3925.31	4166.03	-972.78	381.62	-15.08	246.61	25.35	-2282.63	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-29.25	-260.10	1026.77	463.88	594.80	-228.56	1058.30	495.42	626.33
VANO 22	26.33	3876.62	4044.18	-903.29	354.36	-14.00	228.99	26.33	-2025.61	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-27.16	-265.07	1030.10	429.19	615.86	-233.77	1061.41	460.50	647.17
VANO 22	27.30	3793.60	3895.31	-833.81	327.10	-12.92	211.38	27.30	-1768.59	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-25.07	-262.37	1028.86	398.80	634.36	-231.30	1059.93	429.88	665.44
VANO 22	27.30	3793.60	3895.31	-833.81	327.10	-12.92	211.38	27.30	-1768.59	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-25.07	-262.37	1028.86	398.80	634.36	-231.30	1059.93	429.88	665.44
VANO 22	28.28	3664.00	3719.44	-764.32	299.84	-11.85	193.76	28.28	-1511.58	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-22.98	-250.46	1022.12	374.25	649.38	-219.61	1052.96	405.09	680.23
VANO 22	29.25	3500.08	3516.54	-694.84	272.58	-10.77	176.15	29.25	-1254.56	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-20.89	-230.86	1010.79	353.98	661.84	-200.24	1041.41	384.60	692.45
VANO 22	30.23	3301.82	3286.61	-625.36	245.32	-9.69	158.53	30.23	-997.54	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-18.80	-203.58	994.88	338.02	671.73	-173.19	1025.27	368.41	702.11
VANO 22	31.20	3069.23	3029.65	-555.87	218.07	-8.62	140.92	31.20	-740.53	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-16.71	-168.61	974.39	326.36	679.06	-138.46	1004.54	356.51	709.21
VANO 22	31.20	3069.23	3029.65	-555.87	218.07	-8.62	140.92	31.20	-740.53	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-16.71	-168.61	974.39	326.36	679.06	-138.46	1004.54	356.51	709.21
VANO 22	32.18	2802.31	2745.64	-486.39	190.81	-7.54	123.30	32.18	-483.51	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-14.63	-125.96	949.31	319.00	683.82	-96.04	979.23	348.92	713.74
VANO 22	33.15	2501.06	2434.59	-416.90	163.55	-6.46	105.69	33.15	-226.49	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-12.54	-75.63	919.64	315.93	686.02	-45.94	949.34	345.62	715.71
VANO 22	34.13	2165.48	2096.48	-347.42	136.29	-5.38	88.07	34.13	30.52	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-10.45	-17.61	885.39	317.16	685.65	11.85	914.85	346.62	715.11
VANO 22	35.10	1795.56	1731.32	-277.94	109.03	-4.31	70.46	35.1	287.54	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-8.36	48.10	846.56	322.69	682.72	77.33	875.79	351.92	711.95
VANO 22	35.10	1795.56	1731.32	-277.94	109.03	-4.31	70.46	35.1	287.54	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-8.36	48.10	846.56	322.69	682.72	77.33	875.79	351.92	711.95
VANO 22	36.08	1391.31	1339.09	-208.45	81.77	-3.23	52.84	36.075	544.56	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-6.27	121.50	803.13	332.53	677.22	150.50	832.13	361.52	706.22
VANO 22	37.05	952.73	919.80	-138.97	54.52	-2.15	35.23	37.05	801.57	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-4.18	202.58	755.12	346.65	669.16	231.35	783.89	375.42	697.93
VANO 22	38.03	479.82	473.44	-69.48	27.26	-1.08	17.61	38.025	1058.59	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-2.09	296.22	625.71	349.19	584.34	321.24	650.73	374.21	609.36
VANO 22	39.00	-27.42	0.00	0.00	0.00	0.00	0.00	39	1166.51	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	0.00	378.97	561.45	378.97	561.45	403.79	586.27	403.79	586.27

2.3.3. E.L.S. Apertura de fisura

E.L.S. DE APERTURA DE FISURA

El control de fisuración se realiza aplicando la combinación frecuente de acciones, ponderando cada una de las acciones correspondientes por su coeficiente de combinación.

- CP + RF + Sobrecarga de uso(coef=0.5) + Frenado (coef=0.5) + Interación térmica entre vía y estructura (coef=0.5) + Grad.Termico (coef=0.2) + Asiento (0,2)

La comprobación de la apertura de fisura se realiza para cada uno de los vanos de la estructura. Destaca la singularidad del vano extremo de 39m de luz con pretensado adicional, vano 2 de 48m junto a vano de 39m, vano tres de 48m de luz junto a vano de 51m , vanos cuatro y cinco de 51m de luz con pretensado adicional, vano seis de 48m junto a vano de 51m, vano 7 de 48m, vano 8 de 48m con fin de pretensado adicional de centro de gravedad, y vano final con 39m.

Esta comprobación es obviamente positiva puesto que el hormigón no supera tracciones superiores a fct,k bajo combinación rara de acciones (visto en el anterior apartado).

RESUMEN DE TENSIONES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
A	9.062	10.336
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246
Ws	13.385	14.235
Wi	7.987	11.117

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	0	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDA	0.9	0.9	0.9

MULTIPLICADOR(Perdidas x Coef.Seg)

																		TENSIONES CON FRENADO				TENSIONES SIN FRENADO			
		1	0.5	0.5	0.2	0.2	0.2		0.76	0.72	0.72	0.76	4093.74	Variable	-1980.55	-112.25	-321.43								
			POSITIVOS	NEGATIVOS					MOMENTO	MOMENTO	MOMENTO														
		CARGAS	ENVOLVENTE	ENVOLVENTE	POSITIV	NEGATIV			PRETENSADO	RETENSADO	RETENSADO	AXIL	AXIL	AXIL	AXIL	AXIL	AXIL	MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS		MOMENTOS POSITIVOS		MOMENTOS NEGATIVOS	
	X	PERMANENTES	OBRECARGAS	OBRECARGAS	ASIENTO 1.25 cm	ASIENTO 1.25 cm	GRADIENTE	X	EXTERIOR	CENTRADO	ADICIONAL	EXTERIOR	CENTRADO	ADICIONAL	RETR+FLU	INTER-VIA	FRENADO	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)	INF(t/m2)	SUP(t/m2)
VANO 1	0.00	-27.42	0.00	0.00	0.00	0.00	0.00	0.00	1166.51	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	339.95	522.44	339.95	522.44	573.53	756.01	573.53	756.01
VANO 1	0.98	479.82	236.72	-34.74	9.09	-0.36	5.87	0.98	1058.59	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	281.40	568.17	307.19	548.02	514.97	801.74	540.77	781.60
VANO 1	1.95	952.73	459.90	-69.48	18.17	-0.72	11.74	1.95	801.57	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	223.62	672.26	293.74	630.42	474.13	833.64	524.50	794.30
VANO 1	2.93	1391.31	669.55	-104.23	27.26	-1.08	17.61	2.93	544.56	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	172.76	702.60	275.40	641.36	437.59	862.17	511.33	804.59
VANO 1	3.90	1795.56	865.66	-138.97	36.34	-1.44	23.49	3.90	287.54	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	127.90	729.37	261.36	649.74	405.36	887.34	501.24	812.46
VANO 1	3.90	1795.56	865.66	-138.97	36.34	-1.44	23.49	3.90	287.54	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	127.90	729.37	261.36	649.74	405.36	887.34	501.24	812.46
VANO 1	4.88	2165.48	1048.24	-173.71	45.43	-1.79	29.36	4.88	30.52	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	89.03	752.56	251.62	655.55	377.44	909.15	494.24	817.93
VANO 1	5.85	2501.06	1217.29	-208.45	54.52	-2.15	35.23	5.85	-226.49	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	56.15	772.18	246.18	658.80	353.82	927.59	490.33	820.98
VANO 1	6.83	2802.31	1372.82	-243.19	63.60	-2.51	41.10	6.83	-483.51	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	29.27	788.22	245.03	659.48	334.50	942.68	489.51	821.62
VANO 1	7.80	3069.23	1514.82	-277.94	72.69	-2.87	46.97	7.80	-740.53	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	8.37	800.69	248.19	657.60	319.49	954.40	491.78	819.85
VANO 1	7.80	3069.23	1514.82	-277.94	72.69	-2.87	46.97	7.80	-740.53	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	8.37	800.69	248.19	657.60	319.49	954.40	491.78	819.85
VANO 1	8.78	3301.82	1643.31	-312.68	81.77	-3.23	52.84	8.78	-997.54	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	-6.53	809.58	255.64	653.15	308.79	962.76	497.13	815.67
VANO 1	9.75	3500.08	1758.27	-347.42	90.86	-3.59	58.72	9.75	-1254.56	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	-15.44	814.90	267.39	646.14	302.39	967.76	505.58	809.08
VANO 1	10.73	3664.00	1859.72	-382.16	99.95	-3.95	64.59	10.73	-1511.58	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	-18.36	816.64	283.45	636.56	300.29	969.40	517.11	800.07
VANO 1	11.70	3793.60	1947.66	-416.90	109.03	-4.31	70.46	11.70	-1768.59	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	-15.29	814.80	303.79	624.42	302.50	967.67	531.73	788.66
VANO 1	11.70	3793.60	1947.66	-416.90	109.03	-4.31	70.46	11.70	-1768.59	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	-15.29	814.80	303.79	624.42	302.50	967.67	531.73	788.66
VANO 1	12.68	3876.62	2022.09	-451.65	118.12	-4.67	76.33	12.68	-2025.61	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	-4.69	808.48	329.98	608.80	310.11	961.73	550.54	773.97
VANO 1	13.65	3925.31	2083.01	-486.39	127.21	-5.03	82.20	13.65	-2282.63	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	11.89	798.59	360.45	590.62	322.02	952.43	572.43	756.87
VANO 1	14.63	3939.68	2130.44	-521.13	136.29	-5.38	88.07	14.63	-2539.64	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	34.46	785.12	395.23	569.86	338.23	939.76	597.42	737.36
VANO 1	15.60	3919.71	2164.38	-555.87	145.38	-5.74	93.95	15.60	-2796.66	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	63.02	768.08	434.31	546.55	358.75	923.74	625.49	715.43
VANO 1	15.60	3919.71	2164.38	-555.87	145.38	-5.74	93.95	15.60	-2796.66	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	63.02	768.08	434.31	546.55	358.75	923.74	625.49	715.43
VANO 1	16.58	3865.40	2184.82	-590.61	154.46	-6.10	99.82	16.58	-2956.76	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	85.43	754.71	465.55	527.91	374.85	911.16	647.93	697.90
VANO 1	17.55	3776.77	2191.78	-625.36	163.55	-6.46	105.69	17.55	-2734.12	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	65.91	766.36	453.17	535.30	360.83	922.12	639.04	704.85
VANO 1	18.53	3653.80	2185.26	-660.10	172.64	-6.82	111.56	18.53	-2470.16	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	47.20	777.52	439.91	543.21	347.39	932.62	629.51	712.29
VANO 1	19.50	3496.51	2165.28	-704.08	181.72	-7.18	117.43	19.50	-2206.19	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	34.47	785.12	432.10	547.87	338.24	939.76	623.90	716.67
VANO 1	19.50	3496.51	2165.28	-704.08	181.72	-7.18	117.43	19.50	-2206.19	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	34.47	785.12	432.10	547.87	338.24	939.76	623.90	716.67
VANO 1	20.48	3304.88	2131.82	-750.76	190.81	-7.54	123.30	20.48	-1942.22	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	27.73	789.14	428.93	549.76	333.40	943.54	621.63	718.45
VANO 1	21.45	3078.92	2084.92	-798.53	199.89	-7.90	129.18	21.45	-1678.26	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	26.97	789.59	430.20	549.00	332.86	943.96	622.54	717.74
VANO 1	22.43	2818.62	2024.57	-847.40	208.98	-8.26	135.05	22.43	-1414.29	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	32.20	786.47	435.91	545.60	336.61	941.03	626.64	714.54
VANO 1	23.40	2524.00	1950.78	-897.37	218.07	-8.62	140.92	23.40	-1150.33	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	43.40	779.79	446.05	539.55	344.66	934.75	633.92	708.85
VANO 1	23.40	2524.00	1950.78	-897.37	218.07	-8.62	140.92	23.40	-1150.33	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	43.40	779.79	446.05	539.55	344.66	934.75	633.92	708.85
VANO 1	24.38	2195.04	1863.58	-948.42	227.15	-8.97	146.79	24.38	-886.36	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	60.59	769.54	460.62	530.85	357.00	925.11	644.39	700.67
VANO 1	25.35	1831.75	1762.96	-1000.57	236.24	-9.33	152.66	25.35	-622.40	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	83.75	755.72	479.63	519.51	373.64	912.11	658.05	690.00
VANO 1	26.33	1434.13	1648.95	-1053.81	245.32	-9.69	158.53	26.33	-358.43	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	112.88	738.33	503.08	505.52	394.57	895.76	674.90	676.85
VANO 1	27.30	1002.18	1521.57	-1108.15	254.41	-10.05	164.41	27.30	-94.47	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	147.99	717.38	530.96	488.88	419.80	876.07	694.93	661.21
VANO 1	27.30	1002.18	1521.57	-1108.15	254.41	-10.05	164.41	27.30	-94.47	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	147.99	717.38	530.96	488.88	419.80	876.07	694.93	661.21
VANO 1	28.28	535.90	1380.83	-1163.57	263.50	-10.41	170.28	28.28	169.50	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	189.08	692.87	563.28	469.60	449.31	853.02	718.14	643.08
VANO 1	29.25	35.28	1226.77	-1220.10	272.58	-10.77	176.15	29.25	433.47	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	236.12	664.80	600.03	447.67	483.11	826.62	744.55	622.46
VANO 1	30.23	-499.67	1066.15	-1284.45	281.67	-11.13	182.02	30.23	697.43	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	288.29	633.67	642.06	422.59	520.59	797.35	774.74	598.87
VANO 1	31.20	-1068.95	893.36	-1350.99	290.75	-11.49	187.89	31.20	961.40	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	346.28	599.07	688.67	394.78	562.25	764.82	808.23	572.73
VANO 1	31.20	-1068.95	893.36	-1350.99	290.75	-11.49	187.89	31.20	961.40	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	346.28	599.07	688.67	394.78	562.25	764.82	808.23	572.73
VANO 1	32.18	-1672.56	716.09	-1427.05	299.84	-11.85	193.76	32.18	1225.36	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	409.13	561.57	740.76	363.70	607.40	729.56	845.65	543.50
VANO 1	33.15	-2310.50	572.25	-1538.39	308.93	-12.21	199.64	33.15	1489.33	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	472.10	524.00	801.57	327.42	652.64	694.23	889.34	509.38
VANO 1	34.13	-2982.77	484.35	-1684.68	318.01	-12.56	205.51	34.13	1753.29	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	532.35	488.05	871.06	285.96	695.93	660.43	939.26	470.40
VANO 1	35.10	-3689.38	412.13	-1863.21	327.10	-12.92	211.38	35.10	2017.26	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	594.95	450.70	948.88	239.52	740.89	625.31	995.17	426.74
VANO 1	35.10	-3689.38	412.13	-1863.21	327.10	-12.92	211.38	35.10	2017.26	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	594.95	450.70	948.88	239.52	740.89	625.31	995.17	426.74
VANO 1	36.08	-4430.32	356.55	-2071.49	336.19	-13.28	217.25	36.08	2281.23	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	659.76	412.03	1034.73	188.30	787.45	588.95	1056.84	378.57
VANO 1	37.05	-5205.59	350.14	-2307.30	345.27	-13.64	223.12	37.05	2545.19	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	722.71	374.47	1128.32	132.46	832.68	553.63	1124.08	326.06
VANO 1	38.03	-6015.19	350.92	-2568.65	354.36	-14.00	228.99	38.03	2809.16	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	646.77	282.83	963.13	35.77	880.34	516.41	1196.70	269.35
VANO 1	39.00	-6859.13	356.47	-2853.74	363.44	-14.36	234.87	39.00	2955.05	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-112.25	-321.43	707.72	235.24	1051.58	-33.31	941.29	466.81	1285.17	200.26
VANO 2	0.00	-6859.13	356.47	-2853.74	363.44	-14.36	234.87	0.00	3691.06	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	733.84	379.27	1077.72	110.72	958.47	603.90	1302.34	335.35
VANO 2	1.20	-5835.39	317.72	-2438.86	348.71	-12.65	233.46	1.20	3463.15	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	667.19	431.32	968.66	195.89	891.82	655.94	1193.28	420.52
VANO 2	2.40	-4863.66	285.26	-2089.05	333.97	-10.94	232.05	2.40	3069.78	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	727.94	539.49	1097.46	319.01	844.16	693.16	1109.64	485.84
VANO 2	3.60	-3943.94	300.74	-1784.07	319.23	-9.23	230.65	3.60	2676.42	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	662.11	578.77	993.16	381.25	796.88	730.09	1034.70	544.36
VANO 2	4.80	-3076.22	348.49	-1517.05	304.49	-7.52	229.24	4.80	2283.05	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	598.76	616.57	900.12	436.76	751.36	765.63	967.86	596.56
VANO 2	4.80	-3076.22	348.49	-1517.05	304.49	-7.52	229.24	4.80	2283.05	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	598.76	616.57	900.12	436.76	751.36	765.63	967.86	596.56
VANO 2	6.00	-2260.51	413.13	-1289.81	289.75	-5.81	227.84	6.00	1889.69	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	539.81	651.74	818.57	485.42	709.01	798.71	909.28	642.31
VANO 2	7.20	-1496.81	509.31	-1103.39	275.02	-4.10	226.43	7.20	1496.33	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	483.42	685.39	748.64	527.14	668.50	830.35	859.04	681.54
VANO 2	8.40	-785.11	651.90	-957.45	260.28	-2.39	225.03	8.40	1102.96	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	427.72	718.62	690.29	561.95	628.49	861.59	817.12	714.28
VANO 2	9.60	-125.41	800.05	-849.22	245.54	-0.68	223.62	9.60	709.60	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	377.85	748.38	643.18	590.06	592.66	889.57	783.28	740.71
VANO 2	9.60	-125.41	800.05	-849.22	245.54	-0.68	223.62	9.60	709.60	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	377.85	748.38	643.18	590.06	592.66	889.57	783.28	740.71
VANO 2	10.80	482.28	1008.48	-810.72	230.80	-3.81	222.22	10.80	316.23	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	326.94	778.75	611.92	608.72	556.08	918.14	760.82	758.25
VANO 2	12.00	1037.96	1231.75	-800.89	216.06	-10.79	220.81	12.00	-77.13	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-112.25	-321.43	280.68	806.35	591.24	621.06	522.85	944.09	745.96	769.85
VANO 2	13.20	1541.64	1435.64	-793.15	201.33	-17.77	219.41	13.20	-470.50	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	114.29	699.55	448.26	500.29	382.88	851.87	622.81	664.49
VANO 2	14.40	1993.31	1619.73	-787.14	186.59	-24.75	218.00	14.40	-863.86	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	85.96	716.46	441.08	504.57	362.52	867.76	617.65	668.52
VANO 2	14.40	1993.31	1619.73	-787.14	186.59	-24.75	218.00	14.40	-863.86	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	85.96	716.46	441.08	504.57	362.52	867.76	617.65	668.52
VANO 2	15.60	2377.92	1783.93	-782.81	171.85	-31.72	216.60	15.60	-1257.22	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	68.52	726.86	442.51	503.72	349.99	877.54	618.67	667.72
VANO 2	16.80	2710.52	1928.18	-780.15	157.11	-38.70	215.19	16.80	-1650.59	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	60.09	731.89	450.66	498.86	343.94	882.28	624.53	663.15
VANO 2	18.00	2991.11	2052.45	-779.15	142.37	-45.68	213.79	18.00	-2043.95	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	60.67	731.55	465.53	489.98	344.35	881.95	635.21	654.81
VANO 2	19.20	3219.70	2156.72	-779.81	127.64	-52.65	212.38	19.20	-2437.32	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	70.27	725.82	487.11	477.10	351.25	876.56	650.72	642.70
VANO 2	19.20	3219.70	2156.72	-779.81	127.64	-52.65	212.38	19.20	-2437.32	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	70.27	725.82	487.11	477.10	351.25	876.56	650.72	642.70
VANO 2	20.40	3396.29	2240.96	-782.13	112.90	-59.63	210.97	20.40	-2830.68	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	88.88	714.71	515.42	460.21	364.62	866.12	671.05	626.81
VANO 2	21.60	3520.87	2305.17	-786.10	98.16	-66.61	209.57	21.60	-3224.05	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	116.52	698.22	550.45	439.32	384.48	850.62	696.22	607.16
VANO 2	22.80	3593.44	2349.33	-793.30	83.42	-73.58	208.16	22.80	-3617.41	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	153.18	676.35	592.39	414.29	410.81	830.05	726.35	583.63
VANO 2	24.00	3614.01	2373.44	-813.88	68.68	-80.56	206.76	24.00	-3928.05	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	188.50	655.28	632.16	390.56	436.19	810.23	754.92	561.32
VANO 2	24.00	3614.01	2373.44	-813.88	68.68	-80.56	206.76	24.00	-3928.05	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	188.50	655.28	632.16	390.56	436.19	810.23	754.92	561.32
VANO 2	25.20	3582.57	2377.49	-836.12	53.95	-87.54	205.35	25.20	-3609.98	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	154.12	675.79	599.93	409.79	411.49	829.52	731.76	579.40
VANO 2	26.40	3499.13	2361.48	-860.02	39.21	-94.51	203.95	26.40	-3209.18	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	118.41	697.09	564.06	431.19	385.84	849.55	705.99	599.53
VANO 2	27.60	3363.68	2325.42	-885.58	24.98	-101.49	202.54	27.60	-2808.38	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	91.66	713.05	534.91	448.59	366.62	864.56	685.05	615.88
VANO 2	28.80	3176.22	2269.32	-912.79	26.69	-108.47	201.14	28.80	-2407.58	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	71.94	724.82	512.47	461.97	352.45	875.63	668.94	628.47
VANO 2	28.80	3176.22	2269.32	-912.79	26.69	-108.47	201.14	28.80	-2407.58	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	71.94	724.82	512.47	461.97	352.45	875.63	668.94	628.47
VANO 2	30.00	2936.76	2193.18	-941.66	28.40	-115.44	199.73	30.00	-2006.78	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	61.23	731.21	496.76	471.35	344.76	881.63	657.65	637.28
VANO 2	31.20	2645.29	2097.02	-972.19	30.11	-122.42	198.33	31.20	-1605.98	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	59.54	732.22	487.77	476.71	343.54	882.58	651.19	642.33
VANO 2	32.40	2301.82	1980.87	-1004.39	31.82	-129.40	196.92	32.40	-1205.19	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	66.87	727.85	485.50	478.07	348.81	878.47	649.55	643.60
VANO 2	33.60	1906.34	1844.75	-1038.25	33.53	-136.37	195.52	33.60	-804.39	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	83.21	718.10	489.94	475.42	360.55	869.30	652.75	641.11
VANO 2	33.60	1906.34	1844.75	-1038.25	33.53	-136.37	195.52	33.60	-804.39	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	83.21	718.10	489.94	475.42	360.55	869.30	652.75	641.11
VANO 2	34.80	1458.86	1688.70	-1073.79	35.24	-143.35	194.11	34.80	-403.59	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	108.55	702.98	501.11	468.75	378.75	855.08	660.77	634.84
VANO 2	36.00	959.37	1512.81	-1111.05	36.95	-150.33	192.71	36.00	-2.79	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	142.90	682.49	519.01	458.07	403.43	835.82	673.63	624.80
VANO 2	37.20	407.88	1317.38	-1150.29	38.66	-157.31	191.30	37.20	398.01	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	186.20	656.65	543.66	443.36	434.53	811.52	691.34	610.97
VANO 2	38.40	-195.62	1110.51	-1199.54	40.37	-164.28	189.90	38.40	798.81	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	237.44	626.07	576.08	424.02	471.35	782.77	714.63	592.78
VANO 2	38.40	-195.62	1110.51	-1199.54	40.37	-164.28	189.90	38.40	798.81	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	237.44	626.07	576.08	424.02	471.35	782.77	714.63	592.78
VANO 2	39.60	-851.13	936.68	-1303.16	42.08	-171.26	188.49	39.60	1199.60	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	291.06	594.08	621.82	396.73	509.87	752.69	747.49	567.12
VANO 2	40.80	-1558.64	783.09	-1444.11	43.79	-178.24	187.08	40.80	1600.40	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	348.66	559.72	678.75	362.76	551.25	720.38	788.39	535.18
VANO 2	42.00	-2318.15	656.88	-1625.55	45.51	-185.21	185.68	42.00	2001.20	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	409.34	523.51	747.26	321.89	594.84	686.33	837.61	496.75
VANO 2	43.20	-3129.68	580.84	-1848.48	47.22	-192.19	184.27	43.20	2402.00	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	470.24	487.17	827.47	274.03	638.60	652.16	895.23	451.74
VANO 2	43.20	-3129.68	580.84	-1848.48	47.22	-192.19	184.27	43.20	2402.00	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	470.24	487.17	827.47	274.03	638.60	652.16	895.23	451.74
VANO 2	44.40	-3993.20	526.62	-2112.16	48.93	-199.17	182.87	44.40	2802.80	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	534.93	448.57	919.30	219.24	685.07	615.87	961.20	400.22
VANO 2	45.60	-4908.74	503.41	-2414.94	50.64	-206.14	181.46	45.60	3203.60	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	602.25	408.41	1022.53	157.64	733.43	578.10	1035.37	342.30
VANO 2	46.80	-5876.27	514.83	-2754.70	52.35	-213.12	180.06	46.80	3604.40	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	558.73	314.48	892.91	53.51	783.36	539.11	1117.54	278.14
VANO 2	48.00	-6895.82	539.71	-3129.15	54.06	-226.07	178.65	48.00	3639.74	0.00	0.00	2585.52	4093.74		-1888.08	-112.25	-321.43	627.01	261.16	998.30	-28.80	851.63	485.79	1222.93	195.83

	X	VANO 3 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 3	0.00	-6895.82	539.71	-3129.15	54.06	-226.07	178.65	0.00	3839.74	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	635.91	270.07	1007.20	-19.89	851.63	485.79	1222.93	195.83
VANO 3	1.20	-5885.78	498.49	-2742.13	47.54	-218.99	179.01	1.20	3606.98	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	570.25	321.34	901.83	62.39	785.98	537.07	1117.56	278.12
VANO 3	2.40	-4927.74	470.58	-2392.65	41.03	-211.90	179.37	2.40	3208.77	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	619.72	414.20	1032.35	168.00	738.68	574.00	1035.13	342.49
VANO 3	3.60	-4021.71	485.89	-2079.95	34.51	-204.81	179.72	3.60	2810.56	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	554.99	452.82	928.72	229.83	692.18	610.31	960.68	400.63
VANO 3	4.80	-3167.69	526.42	-1806.25	28.00	-197.72	180.08	4.80	2412.34	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	493.61	489.44	836.49	284.86	648.09	644.75	894.42	452.38
VANO 3	4.80	-3167.69	526.42	-1806.25	28.00	-197.72	180.08	4.80	2412.34	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	493.61	489.44	836.49	284.86	648.09	644.75	894.42	452.38
VANO 3	6.00	-2365.67	584.52	-1573.29	21.48	-190.64	180.44	6.00	2014.13	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	436.54	523.49	755.88	332.96	607.09	676.76	836.50	497.61
VANO 3	7.20	-1615.66	689.77	-1382.06	14.97	-183.55	180.80	7.20	1615.92	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	380.09	557.17	687.00	374.06	566.53	708.44	787.02	536.25
VANO 3	8.40	-917.65	828.62	-1231.92	8.45	-176.46	181.15	8.40	1217.71	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	325.94	589.48	629.77	408.20	527.63	738.82	745.91	568.36
VANO 3	9.60	-271.65	988.23	-1119.42	1.94	-169.38	181.51	9.60	819.49	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	275.70	619.46	583.77	435.64	491.54	767.01	712.86	594.16
VANO 3	9.60	-271.65	988.23	-1119.42	1.94	-169.38	181.51	9.60	819.49	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	275.70	619.46	583.77	435.64	491.54	767.01	712.86	594.16
VANO 3	10.80	322.35	1202.33	-1082.69	1.29	-162.29	181.87	10.80	421.28	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	224.41	650.06	553.77	453.54	454.69	795.78	691.31	610.99
VANO 3	12.00	864.34	1417.54	-1068.52	3.03	-155.20	182.23	12.00	23.07	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	179.20	677.04	533.11	465.87	422.21	821.15	676.47	622.59
VANO 3	13.20	1354.32	1613.05	-1056.12	4.78	-148.11	182.58	13.20	-375.14	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	142.97	698.66	519.18	474.19	396.18	841.47	666.46	630.40
VANO 3	14.40	1792.30	1788.69	-1045.41	6.52	-141.03	182.94	14.40	-773.35	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	115.73	714.91	511.97	478.49	376.62	856.75	661.28	634.45
VANO 3	14.40	1792.30	1788.69	-1045.41	6.52	-141.03	182.94	14.40	-773.35	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	115.73	714.91	511.97	478.49	376.62	856.75	661.28	634.45
VANO 3	15.60	2163.22	1944.40	-1036.37	8.27	-133.94	183.30	15.60	-1171.57	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	99.39	724.66	513.37	477.65	364.88	865.92	662.28	633.66
VANO 3	16.80	2482.13	2080.15	-1028.98	10.01	-126.85	183.66	16.80	-1569.78	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	92.06	729.03	521.49	472.81	359.61	870.03	668.12	629.11
VANO 3	18.00	2749.03	2195.90	-1023.26	11.76	-119.77	184.01	18.00	-1967.99	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	93.74	728.03	536.32	463.96	360.82	869.09	678.77	620.78
VANO 3	19.20	2963.93	2291.64	-1019.19	13.50	-112.68	184.37	19.20	-2366.20	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	104.45	721.64	557.88	451.09	368.51	863.09	694.26	608.69
VANO 3	19.20	2963.93	2291.64	-1019.19	13.50	-112.68	184.37	19.20	-2366.20	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	104.45	721.64	557.88	451.09	368.51	863.09	694.26	608.69
VANO 3	20.40	3126.82	2367.35	-1016.77	16.55	-105.59	184.73	20.40	-2764.42	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	124.00	709.97	586.15	434.22	382.56	852.11	714.57	592.83
VANO 3	21.60	3237.70	2423.01	-1016.02	30.47	-98.50	185.09	21.60	-3162.63	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	151.22	693.73	621.15	413.34	402.11	836.84	739.71	573.19
VANO 3	22.80	3296.58	2458.63	-1016.92	44.39	-91.42	185.44	22.80	-3560.84	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	187.46	672.11	662.86	388.45	428.15	816.51	769.68	549.79
VANO 3	24.00	3303.46	2474.18	-1029.79	58.31	-84.33	185.80	24.00	-3876.33	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	222.37	651.28	702.23	364.97	453.23	796.92	797.96	527.71
VANO 3	24.00	3303.46	2474.18	-1029.79	58.31	-84.33	185.80	24.00	-3876.33	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	222.37	651.28	702.23	364.97	453.23	796.92	797.96	527.71
VANO 3	25.20	3258.33	2469.67	-1049.40	72.23	-82.76	186.16	25.20	-3563.10	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	187.58	672.04	670.92	383.65	428.23	816.44	775.47	545.27
VANO 3	26.40	3161.19	2445.10	-1070.66	86.15	-89.28	186.52	26.40	-3167.15	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	151.45	693.59	636.98	403.90	402.28	836.71	751.09	564.31
VANO 3	27.60	3012.05	2400.48	-1093.57	100.07	-95.79	186.87	27.60	-2771.20	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	124.35	709.76	609.76	420.14	382.81	851.92	731.54	579.58
VANO 3	28.80	2810.90	2335.80	-1118.15	113.99	-102.31	187.23	28.80	-2375.25	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	106.27	720.55	589.26	432.37	369.82	862.06	716.81	591.08
VANO 3	28.80	2810.90	2335.80	-1118.15	113.99	-102.31	187.23	28.80	-2375.25	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	106.27	720.55	589.26	432.37	369.82	862.06	716.81	591.08
VANO 3	30.00	2557.75	2251.09	-1144.38	127.91	-108.82	187.59	30.00	-1979.30	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	97.21	725.96	575.49	440.59	363.31	867.15	706.91	598.81
VANO 3	31.20	2252.59	2146.35	-1172.27	141.83	-115.34	187.95	31.20	-1583.35	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	97.17	725.98	568.43	444.80	363.28	867.17	701.84	602.77
VANO 3	32.40	1895.42	2021.60	-1201.83	155.75	-121.85	188.30	32.40	-1187.40	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	106.14	720.63	568.09	445.00	369.73	862.13	701.59	602.96
VANO 3	33.60	1486.25	1876.88	-1233.04	169.67	-128.37	188.66	33.60	-791.45	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	124.13	709.89	574.47	441.20	382.65	852.04	706.18	599.39
VANO 3	33.60	1486.25	1876.88	-1233.04	169.67	-128.37	188.66	33.60	-791.45	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	124.13	709.89	574.47	441.20	382.65	852.04	706.18	599.39
VANO 3	34.80	1025.08	1712.21	-1265.93	183.59	-134.89	189.02	34.80	-395.50	0.00	0.00	2585.52	4093.74		-1796.06	-112.25	-321.43	151.13	693.79	587.57	433.38	402.05	836.89	715.59	592.04
VANO 3	36.00	511.90	1527.66	-1300.52	197.51	-141.40	189.38	36.00	0.45	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	316.20	801.38	736.46	550.62	541.07	929.86	842.99	694.07
VANO 3	37.20	-53.29	1323.74	-1337.27	211.43	-147.92	189.73	37.20	396.40	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	361.13	774.56	763.07	534.74	573.35	904.65	862.11	679.15
VANO 3	38.40	-670.48	1111.68	-1387.37	225.35	-154.43	190.09	38.40	792.35	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	413.60	743.26	797.86	513.99	611.04	875.21	887.10	659.63
VANO 3	38.40	-670.48	1111.68	-1387.37	225.35	-154.43	190.09	38.40	792.35	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	413.60	743.26	797.86	513.99	611.04	875.21	887.10	659.63
VANO 3	39.60	-1339.68	941.64	-1500.88	239.27	-160.95	190.45	39.60	1188.30	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	467.31	711.21	847.10	484.61	649.63	845.08	922.48	632.00
VANO 3	40.80	-2060.89	792.22	-1652.75	253.19	-167.46	190.81	40.80	1584.25	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	524.96	676.81	907.65	448.47	691.05	812.73	965.98	598.03
VANO 3	42.00	-2834.09	670.24	-1845.73	267.11	-173.98	191.16	42.00	1980.20	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	585.68	640.58	979.87	405.39	734.67	778.67	1017.86	557.51
VANO 3	43.20	-3659.31	601.66	-2081.00	281.03	-180.49	191.52	43.20	2376.15	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	646.23	604.46	1063.89	355.25	778.17	744.70	1078.23	510.37
VANO 3	43.20	-3659.31	601.66	-2081.00	281.03	-180.49	191.52	43.20	2376.15	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	646.23	604.46	1063.89	355.25	778.17	744.70	1078.23	510.37
VANO 3	44.40	-4536.53	554.90	-2357.90	294.95	-187.01	191.88	44.40	2772.10	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	710.56	566.08	1159.64	298.13	824.38	708.61	1147.01	456.65
VANO 3	45.60	-5465.76	543.64	-2674.79	308.87	-193.52	192.24	45.60	3168.05	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	776.95	526.46	1266.90	234.12	872.08	671.36	1224.07	396.47
VANO 3	46.80	-6446.99	562.44	-3029.52	322.79	-200.04	192.59	46.80	3564.00	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	706.03	416.84	1093.49	114.26	921.75	632.57	1309.21	329.98
VANO 3	48.00	-7480.23	595.34	-3419.76	336.71	-206.55	192.95	48.00	3794.51	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-112.25	-321.43	773.99	363.76	1201.39	29.99	989.72	579.49	1417.11	245.72

	X	VANO 4 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 4	0.00	-7480.23	595.34	-3419.76	336.71	-206.55	192.95	0.00	3794.51	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	783.15	372.92	1210.54	39.15	989.72	579.49	1417.11	245.72
VANO 4	1.28	-6339.29	553.24	-2957.39	323.15	-193.39	192.86	1.28	3554.37	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	707.14	432.29	1086.74	135.84	913.70	638.85	1293.31	342.41
VANO 4	2.55	-5257.06	528.54	-2566.97	309.59	-180.22	192.77	2.55	3159.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	764.10	550.81	1237.15	268.55	855.34	684.43	1195.19	419.02
VANO 4	3.83	-4233.53	543.21	-2217.15	296.03	-167.06	192.68	3.83	2764.16	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	685.29	597.83	1113.02	342.62	798.73	728.64	1106.02	488.67
VANO 4	5.10	-3268.72	587.90	-1910.42	282.47	-153.90	192.59	5.10	2369.05	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	610.07	642.71	1001.63	409.08	744.69	770.85	1025.99	551.16
VANO 4	5.10	-3268.72	587.90	-1910.42	282.47	-153.90	192.59	5.10	2369.05	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	610.07	642.71	1001.63	409.08	744.69	770.85	1025.99	551.16
VANO 4	6.38	-2362.62	662.97	-1648.86	268.91	-140.73	192.50	6.38	1973.94	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	538.40	685.47	903.25	467.78	693.20	811.06	955.32	606.36
VANO 4	7.65	-1515.23	787.42	-1433.70	255.35	-127.57	192.41	7.65	1578.83	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	467.89	727.54	818.04	518.62	642.55	850.61	894.09	654.17
VANO 4	8.93	-726.54	942.44	-1264.60	241.79	-114.40	192.32	8.93	1183.72	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	400.91	767.50	745.93	561.64	594.43	888.19	842.30	694.62
VANO 4	10.20	3.43	1121.01	-1138.29	228.23	-101.24	192.23	10.20	788.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	338.33	804.84	686.54	597.08	549.47	923.30	799.63	727.94
VANO 4	10.20	3.43	1121.01	-1138.29	228.23	-101.24	192.23	10.20	788.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	338.33	804.84	686.54	597.08	549.47	923.30	799.63	727.94
VANO 4	11.48	674.69	1350.14	-1086.38	214.66	-88.07	192.14	11.48	393.50	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	276.78	841.57	643.82	622.57	505.25	957.83	768.93	751.91
VANO 4	12.75	1287.25	1587.34	-1066.57	201.10	-74.91	192.04	12.75	-1.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	221.56	874.52	612.46	641.28	465.58	988.81	746.41	769.50
VANO 4	14.03	1841.09	1802.62	-1048.92	187.54	-61.75	191.95	14.03	-396.72	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	176.44	901.44	588.73	655.44	433.16	1014.13	729.36	782.82
VANO 4	15.30	2336.23	1995.63	-1033.18	173.98	-48.58	191.86	15.30	-791.83	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	141.46	922.31	572.59	665.07	408.03	1033.75	717.76	791.87
VANO 4	15.30	2336.23	1995.63	-1033.18	173.98	-48.58	191.86	15.30	-791.83	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	141.46	922.31	572.59	665.07	408.03	1033.75	717.76	791.87
VANO 4	16.58	2756.66	2166.30	-1019.33	160.42	-35.42	191.77	16.58	-1186.94	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	118.63	935.93	566.03	668.98	391.63	1046.56	713.05	795.55
VANO 4	17.85	3118.37	2314.57	-1007.36	146.86	-35.88	191.68	17.85	-1582.05	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	105.95	943.49	568.77	667.35	382.53	1053.67	715.02	794.01
VANO 4	19.13	3421.38	2440.39	-997.26	133.30	-42.40	191.59	19.13	-1977.16	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	103.44	944.99	579.86	660.73	380.72	1055.08	722.98	787.79
VANO 4	20.40	3665.68	2543.75	-989.03	119.74	-48.92	191.50	20.40	-2372.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	111.09	940.43	598.53	649.60	386.22	1050.79	736.40	777.32
VANO 4	20.40	3665.68	2543.75	-989.03	119.74	-48.92	191.50	20.40	-2372.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	111.09	940.43	598.53	649.60	386.22	1050.79	736.40	777.32
VANO 4	21.68	3851.26	2624.61	-982.67	106.18	-55.44	191.41	21.68	-2767.38	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	128.91	929.80	624.78	633.93	399.02	1040.79	755.26	762.59
VANO 4	22.95	3978.14	2682.96	-978.19	92.62	-61.96	191.32	22.95	-3162.49	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	156.90	913.10	658.62	613.74	419.13	1025.09	779.57	743.60
VANO 4	24.23	4046.31	2718.78	-975.57	79.06	-68.48	191.23	24.23	-3557.60	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	195.06	890.33	700.05	589.02	446.54	1003.68	809.33	720.36
VANO 4	25.50	4055.77	2732.08	-983.19	65.49	-75.00	191.14	25.50	-3875.22	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	233.69	867.28	740.40	564.95	474.29	982.01	838.32	697.72
VANO 4	25.50	4055.77	2732.08	-983.19	65.49	-75.00	191.14	25.50	-3875.22	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	233.69	867.28	740.40	564.95	474.29	982.01	838.32	697.72
VANO 4	26.78	4006.52	2722.84	-999.42	69.90	-81.52	191.05	26.78	-3557.43	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	200.68	886.97	709.62	583.31	450.58	1000.53	816.21	714.99
VANO 4	28.05	3898.56	2691.07	-1017.52	83.06	-88.04	190.96	28.05	-3162.14	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	167.04	907.04	676.73	602.93	426.41	1019.40	792.58	733.44
VANO 4	29.33	3731.89	2636.77	-1037.49	96.23	-94.56	190.87	29.33	-2766.85	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	143.58	921.04	651.42	618.03	409.56	1032.56	774.40	747.64
VANO 4	30.60	3506.51	2559.95	-1059.33	109.39	-101.07	190.77	30.60	-2371.56	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	130.29	928.97	633.70	628.61	400.01	1040.02	761.66	757.59
VANO 4	30.60	3506.51	2559.95	-1059.33	109.39	-101.07	190.77	30.60	-2371.56	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	130.29	928.97	633.70	628.61	400.01	1040.02	761.66	757.59
VANO 4	31.88	3222.42	2460.62	-1083.04	122.56	-107.59	190.68	31.88	-1976.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	127.16	930.84	623.56	634.66	397.76	1041.77	754.38	763.27
VANO 4	33.15	2879.63	2338.81	-1108.63	135.72	-114.11	190.59	33.15	-1580.99	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	134.21	926.64	621.01	636.18	402.82	1037.82	752.55	764.71
VANO 4	34.43	2478.12	2194.54	-1136.08	148.88	-120.63	190.50	34.43	-1185.70	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	151.41	916.37	626.04	633.18	415.18	1028.17	756.16	761.88
VANO 4	35.70	2017.90	2027.84	-1165.41	162.05	-127.15	190.41	35.70	-790.41	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	178.78	900.04	638.66	625.65	434.84	1012.82	765.23	754.80
VANO 4	35.70	2017.90	2027.84	-1165.41	162.05	-127.15	190.41	35.70	-790.41	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	178.78	900.04	638.66	625.65	434.84	1012.82	765.23	754.80
VANO 4	36.98	1498.98	1838.76	-1196.62	175.21	-133.67	190.32	36.98	-395.12	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	216.30	877.66	658.86	613.60	461.80	991.77	779.74	743.47
VANO 4	38.25	921.34	1627.37	-1229.71	188.38	-140.19	190.23	38.25	0.17	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	263.96	849.22	686.65	597.01	496.04	965.02	799.71	727.88
VANO 4	39.53	285.00	1393.81	-1264.80	201.54	-146.71	190.14	39.53	395.45	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	321.75	814.74	722.05	575.90	537.56	932.60	825.14	708.02
VANO 4	40.80	-410.06	1159.57	-1323.25	214.71	-153.23	190.05	40.80	790.74	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	386.98	775.82	767.72	548.65	584.42	896.01	857.94	682.40
VANO 4	40.80	-410.06	1159.57	-1323.25	214.71	-153.23	190.05	40.80	790.74	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	386.98	775.82	767.72	548.65	584.42	896.01	857.94	682.40
VANO 4	42.08	-1163.82	969.78	-1450.12	227.87	-159.75	189.96	42.08	1186.03	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	453.99	735.84	829.30	511.90	632.56	858.41	902.19	647.85
VANO 4	43.35	-1976.29	801.00	-1618.67	241.04	-166.27	189.87	43.35	1581.32	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	525.72	693.04	903.46	467.65	684.09	818.17	955.46	606.24
VANO 4	44.63	-2847.47	664.32	-1833.28	254.20	-172.79	189.78	44.63	1976.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	600.78	648.25	990.73	415.58	738.02	776.05	1018.16	557.28
VANO 4	45.90	-3777.37	591.60	-2094.92	267.36	-179.31	189.69	45.90	2371.89	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	675.19	603.85	1091.25	355.61	791.47	734.31	1090.37	500.88
VANO 4	45.90	-3777.37	591.60	-2094.92	267.36	-179.31	189.69	45.90	2371.89	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	675.19	603.85	1091.25	355.61	791.47	734.31	1090.37	500.88
VANO 4	47.18	-4765.97	538.76	-2402.61	280.53	-185.83	189.60	47.18	2767.18	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	754.46	556.56	1204.88	287.81	848.42	689.84	1172.01	437.13
VANO 4	48.45	-5813.28	514.80	-2754.43	293.69	-192.35	189.51	48.45	3162.47	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	837.46	507.03	1331.39	212.33	908.05	643.27	1262.89	366.16
VANO 4	49.73	-6919.30	531.46	-3147.91	306.86	-198.86	189.41	49.73	3557.76	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	762.74	388.86	1156.24	81.56	969.31	595.43	1362.81	288.13
VANO 5	51.00	-8084.03	563.55	-3580.46	320.02	-205.72	189.32	51.00	3798.07	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-112.25	-321.43	841.83	327.10	1278.92	-14.24	1048.40	533.66	1485.49	192.32

	X	VANO 5 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 5	0.00	-8084.03	563.55	-3580.46	320.02	-205.72	189.32	0.00	3798.07	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	851.41	336.67	1288.50	-4.67	1048.40	533.66	1485.49	192.32
VANO 5	1.28	-6912.67	531.32	-3146.64	306.87	-199.20	189.35	1.28	3557.95	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	771.72	398.90	1165.12	91.68	968.71	595.89	1362.11	288.67
VANO 5	2.55	-5800.02	514.17	-2752.51	293.72	-192.67	189.37	2.55	3162.85	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	846.77	518.92	1340.40	224.39	906.89	644.17	1261.52	367.23
VANO 5	3.83	-4746.09	537.21	-2399.99	280.56	-186.15	189.40	3.83	2767.75	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	763.04	568.88	1212.96	300.43	846.73	691.15	1169.96	438.73
VANO 5	5.10	-3750.86	589.47	-2091.55	267.41	-179.62	189.42	5.10	2372.65	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	682.99	616.64	1098.38	368.80	789.23	736.06	1087.65	503.01
VANO 5	5.10	-3750.86	589.47	-2091.55	267.41	-179.62	189.42	5.10	2372.65	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	682.99	616.64	1098.38	368.80	789.23	736.06	1087.65	503.01
VANO 5	6.38	-2814.34	661.58	-1829.10	254.26	-173.09	189.44	6.38	1977.55	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	607.82	661.49	996.91	429.34	735.22	778.24	1014.75	559.94
VANO 5	7.65	-1936.53	796.60	-1613.61	241.10	-166.57	189.47	7.65	1582.44	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	532.12	706.66	908.67	481.99	680.84	820.71	951.36	609.45
VANO 5	8.93	-1117.43	964.40	-1444.13	227.95	-160.04	189.49	8.93	1187.34	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	459.66	749.89	833.54	526.82	628.79	861.36	897.38	651.60
VANO 5	10.20	-357.03	1153.40	-1316.42	214.80	-153.52	189.51	10.20	792.24	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	391.90	790.32	770.99	564.13	580.11	899.37	852.45	686.69
VANO 5	10.20	-357.03	1153.40	-1316.42	214.80	-153.52	189.51	10.20	792.24	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	391.90	790.32	770.99	564.13	580.11	899.37	852.45	686.69
VANO 5	11.48	344.65	1389.33	-1259.60	201.65	-146.99	189.54	11.48	397.14	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	325.62	829.87	724.68	591.77	532.49	936.56	819.18	712.67
VANO 5	12.75	987.62	1623.93	-1225.50	188.49	-140.46	189.56	12.75	2.04	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	266.85	864.94	688.55	613.32	490.27	969.53	793.22	732.94
VANO 5	14.03	1571.88	1836.44	-1193.46	175.34	-133.94	189.59	14.03	-393.06	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	218.20	893.96	660.04	630.34	455.32	996.83	772.74	748.94
VANO 5	15.30	2097.44	2026.65	-1163.32	162.19	-127.41	189.61	15.30	-788.16	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	179.69	916.94	639.11	642.82	427.65	1018.43	757.71	760.68
VANO 5	15.30	2097.44	2026.65	-1163.32	162.19	-127.41	189.61	15.30	-788.16	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	179.69	916.94	639.11	642.82	427.65	1018.43	757.71	760.68
VANO 5	16.58	2548.28	2194.50	-1135.06	149.03	-120.89	189.63	16.58	-1183.26	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	153.34	932.66	627.78	649.58	408.72	1033.21	749.56	767.04
VANO 5	17.85	2940.41	2339.91	-1108.69	135.88	-114.36	189.66	17.85	-1578.36	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	137.15	942.32	624.03	651.82	397.09	1042.30	746.87	769.14
VANO 5	19.13	3273.84	2462.88	-1084.18	122.73	-107.83	189.68	19.13	-1973.46	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	131.12	945.92	627.87	649.53	392.76	1045.68	749.63	766.99
VANO 5	20.40	3548.55	2563.35	-1061.54	109.58	-101.31	189.71	20.40	-2368.56	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	135.26	943.45	639.29	642.72	395.73	1043.36	757.83	760.58
VANO 5	20.40	3548.55	2563.35	-1061.54	109.58	-101.31	189.71	20.40	-2368.56	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	135.26	943.45	639.29	642.72	395.73	1043.36	757.83	760.58
VANO 5	21.68	3764.56	2641.33	-1040.78	96.42	-94.78	189.73	21.68	-2763.66	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	149.56	934.92	658.30	631.38	406.01	1035.34	771.49	749.91
VANO 5	22.95	3921.85	2696.80	-1021.89	83.27	-88.26	189.75	22.95	-3158.76	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	174.04	920.31	684.89	615.51	423.59	1021.60	790.59	735.00
VANO 5	24.23	4020.44	2729.73	-1004.86	70.12	-81.73	189.78	24.23	-3553.86	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	208.68	899.64	719.07	595.12	448.48	1002.17	815.15	715.82
VANO 5	25.50	4060.31	2740.13	-989.71	65.17	-80.20	189.80	25.50	-3871.47	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	242.77	879.30	751.75	575.61	472.97	983.04	838.63	697.48
VANO 5	25.50	4060.31	2740.13	-989.71	65.17	-80.20	189.80	25.50	-3871.47	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	242.77	879.30	751.75	575.61	472.97	983.04	838.63	697.48
VANO 5	26.78	4041.48	2728.00	-983.36	78.70	-87.06	189.82	26.78	-3553.66	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	205.16	901.74	714.38	597.91	445.95	1004.14	811.78	718.45
VANO 5	28.05	3963.94	2693.35	-987.01	92.22	-93.92	189.85	28.05	-3158.37	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	168.02	923.91	675.91	620.86	419.26	1024.98	784.14	740.03
VANO 5	29.33	3827.69	2636.17	-992.54	105.75	-100.79	189.87	29.33	-2763.07	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	141.04	940.00	645.03	639.29	399.89	1040.11	761.96	757.36
VANO 5	30.60	3632.73	2556.48	-999.93	119.28	-107.65	189.90	30.60	-2367.77	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	124.24	950.03	621.73	653.19	387.82	1049.54	745.22	770.43
VANO 5	30.60	3632.73	2556.48	-999.93	119.28	-107.65	189.90	30.60	-2367.77	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	124.24	950.03	621.73	653.19	387.82	1049.54	745.22	770.43
VANO 5	31.88	3379.06	2454.30	-1009.20	132.81	-114.52	189.92	31.88	-1972.47	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	117.61	953.98	606.02	662.57	383.05	1053.27	733.93	779.25
VANO 5	33.15	3066.68	2329.65	-1020.34	146.34	-121.38	189.94	33.15	-1577.17	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	121.13	951.88	597.89	667.42	385.58	1051.29	728.09	783.81
VANO 5	34.43	2695.59	2182.56	-1033.35	159.86	-128.25	189.97	34.43	-1181.88	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	134.82	943.71	597.35	667.74	395.42	1043.61	727.70	784.11
VANO 5	35.70	2265.79	2013.07	-1048.24	173.39	-135.11	189.99	35.70	-786.58	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	158.67	929.48	604.39	663.54	412.55	1030.23	732.76	780.16
VANO 5	35.70	2265.79	2013.07	-1048.24	173.39	-135.11	189.99	35.70	-786.58	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	158.67	929.48	604.39	663.54	412.55	1030.23	732.76	780.16
VANO 5	36.98	1777.28	1821.24	-1065.01	186.92	-141.97	190.01	36.98	-391.28	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	192.66	909.20	619.02	654.81	436.97	1011.16	743.27	771.95
VANO 5	38.25	1230.06	1607.15	-1083.70	200.45	-148.84	190.04	38.25	4.02	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	236.79	882.87	641.24	641.55	468.67	986.40	759.24	759.48
VANO 5	39.53	624.13	1371.11	-1104.53	213.97	-155.70	190.06	39.53	399.31	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	291.02	850.51	671.08	623.75	507.63	955.97	780.68	742.74
VANO 5	40.80	-40.50	1141.38	-1155.69	227.50	-162.57	190.09	40.80	794.61	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	351.81	814.24	712.07	599.29	551.31	921.86	810.12	719.74
VANO 5	40.80	-40.50	1141.38	-1155.69	227.50	-162.57	190.09	40.80	794.61	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	351.81	814.24	712.07	599.29	551.31	921.86	810.12	719.74
VANO 5	42.08	-763.85	962.69	-1281.74	241.03	-169.43	190.11	42.08	1189.91	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	413.57	777.40	769.79	564.85	595.67	887.22	851.59	687.36
VANO 5	43.35	-1545.91	807.18	-1450.42	254.56	-176.30	190.13	43.35	1585.21	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	479.77	737.90	840.20	522.84	643.23	850.08	902.17	647.86
VANO 5	44.63	-2386.67	682.16	-1665.09	268.08	-183.16	190.16	44.63	1980.50	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	549.50	696.29	923.71	473.01	693.33	810.95	962.17	601.01
VANO 5	45.90	-3286.14	602.64	-1926.13	281.61	-190.02	190.18	45.90	2375.80	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	620.89	653.69	1020.38	415.33	744.61	770.90	1031.62	546.77
VANO 5	45.90	-3286.14	602.64	-1926.13	281.61	-190.02	190.18	45.90	2375.80	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	620.89	653.69	1020.38	415.33	744.61	770.90	1031.62	546.77
VANO 5	47.18	-4244.33	557.65	-2232.35	295.14	-196.89	190.21	47.18	2771.10	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	695.31	609.29	1130.07	349.89	798.08	729.15	1110.41	485.23
VANO 5	48.45	-5261.22	541.46	-2581.69	308.67	-203.75	190.23	48.45	3166.40	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	773.47	562.66	1252.50	276.84	854.23	685.30	1198.37	416.55
VANO 5	49.73	-6336.83	565.77	-2971.67	322.19	-210.62	190.25	49.73	3561.69	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	715.03	443.18	1098.27	143.89	912.02	640.17	1295.26	340.88
VANO 5	51.00	-7471.14	607.61	-3432.53	335.72	-217.48	190.28	51.00	3802.01	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-112.25	-321.43	790.46	384.27	1220.76	48.23	987.45	581.26	1417.75	245.22

	X	VANO 6 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 6	0.00	-7471.14	607.61	-3432.53	335.72	-217.48	190.28	0.00	3802.01	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	799.62	393.43	1229.92	57.39	987.45	581.26	1417.75	245.22
VANO 6	1.20	-6431.64	573.05	-3040.08	321.87	-203.22	190.27	1.20	3570.53	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	731.30	446.79	1120.66	142.72	919.12	634.62	1308.48	330.55
VANO 6	2.40	-5444.14	552.58	-2683.13	308.01	-193.12	190.26	2.40	3173.59	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	804.60	560.77	1296.32	267.38	869.09	673.69	1222.34	397.82
VANO 6	3.60	-4508.66	563.24	-2363.97	294.16	-186.63	190.26	3.60	2776.66	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	737.57	600.76	1188.11	331.94	820.93	711.30	1144.61	458.53
VANO 6	4.80	-3625.18	608.16	-2084.74	280.30	-180.14	190.25	4.80	2379.72	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	672.76	639.43	1091.42	389.64	774.37	747.66	1075.14	512.78
VANO 6	4.80	-3625.18	608.16	-2084.74	280.30	-180.14	190.25	4.80	2379.72	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	672.76	639.43	1091.42	389.64	774.37	747.66	1075.14	512.78
VANO 6	6.00	-2793.70	676.08	-1847.06	266.45	-173.65	190.25	6.00	1982.79	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	611.58	675.93	1006.43	440.34	730.42	781.99	1014.09	560.46
VANO 6	7.20	-2014.23	795.65	-1651.56	252.59	-167.16	190.24	7.20	1585.85	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	550.45	712.41	933.25	484.01	686.50	816.28	961.51	601.52
VANO 6	8.40	-1286.76	942.51	-1497.06	238.74	-160.67	190.23	8.40	1188.92	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	492.41	747.04	871.70	520.73	644.81	848.85	917.29	636.05
VANO 6	9.60	-611.30	1111.89	-1382.86	224.88	-154.19	190.23	9.60	791.98	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	438.07	779.46	821.72	550.55	605.76	879.34	881.38	664.09
VANO 6	9.60	-611.30	1111.89	-1382.86	224.88	-154.19	190.23	9.60	791.98	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	438.07	779.46	821.72	550.55	605.76	879.34	881.38	664.09
VANO 6	10.80	12.15	1327.63	-1336.42	211.03	-147.70	190.22	10.80	395.05	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	384.43	811.47	786.73	571.43	567.23	909.43	856.25	683.72
VANO 6	12.00	583.60	1534.96	-1303.04	197.18	-141.21	190.21	12.00	-1.89	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-112.25	-321.43	338.35	838.96	759.88	587.45	534.13	935.28	836.96	698.78
VANO 6	13.20	1103.04	1722.88	-1271.77	183.32	-134.72	190.21	13.20	-398.82	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	172.15	732.05	610.75	470.35	394.29	842.95	709.38	596.88
VANO 6	14.40	1570.48	1890.95	-1242.22	169.47	-128.23	190.20	14.40	-795.76	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	144.01	748.83	597.41	478.31	374.08	858.74	699.80	604.36
VANO 6	14.40	1570.48	1890.95	-1242.22	169.47	-128.23	190.20	14.40	-795.76	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	144.01	748.83	597.41	478.31	374.08	858.74	699.80	604.36
VANO 6	15.60	1970.85	2039.09	-1214.36	155.61	-121.74	190.19	15.60	-1192.69	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	126.77	759.12	592.68	481.14	361.69	868.41	696.40	607.02
VANO 6	16.80	2319.22	2167.25	-1188.16	141.76	-115.25	190.19	16.80	-1589.63	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	118.54	764.03	594.67	479.95	355.77	873.03	697.83	605.90
VANO 6	18.00	2615.58	2275.42	-1163.62	127.90	-108.77	190.18	18.00	-1986.56	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	119.32	763.57	603.37	474.75	356.34	872.59	704.09	601.02
VANO 6	19.20	2859.94	2363.57	-1140.74	114.05	-102.28	190.18	19.20	-2383.50	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	129.13	757.72	618.80	465.55	363.38	867.09	715.17	592.36
VANO 6	19.20	2859.94	2363.57	-1140.74	114.05	-102.28	190.18	19.20	-2383.50	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	129.13	757.72	618.80	465.55	363.38	867.09	715.17	592.36
VANO 6	20.40	3052.29	2431.69	-1119.52	100.19	-95.79	190.17	20.40	-2780.43	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	147.95	746.49	640.95	452.33	376.90	856.53	731.08	579.94
VANO 6	21.60	3192.63	2479.76	-1099.97	86.34	-89.30	190.16	21.60	-3177.37	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	175.80	729.87	669.81	435.11	396.91	840.91	751.82	563.74
VANO 6	22.80	3280.97	2507.78	-1082.06	72.48	-82.81	190.16	22.80	-3574.30	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	212.66	707.88	705.40	413.88	423.39	820.22	777.38	543.78
VANO 6	24.00	3317.30	2515.74	-1065.82	67.67	-83.00	190.15	24.00	-3888.51	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	247.06	687.35	738.18	394.32	448.11	800.92	800.93	525.38
VANO 6	24.00	3317.30	2515.74	-1065.82	67.67	-83.00	190.15	24.00	-3888.51	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	247.06	687.35	738.18	394.32	448.11	800.92	800.93	525.38
VANO 6	25.20	3301.63	2503.65	-1057.32	81.93	-89.96	190.14	25.20	-3574.01	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	209.37	709.84	700.57	416.76	421.03	822.07	773.92	546.48
VANO 6	26.40	3233.95	2471.50	-1059.76	96.19	-96.91	190.14	26.40	-3176.78	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	170.35	733.12	660.49	440.68	393.00	843.96	745.12	568.98
VANO 6	27.60	3114.27	2419.30	-1063.85	110.45	-103.87	190.13	27.60	-2779.55	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	140.35	751.02	627.12	460.59	371.44	860.79	721.14	587.70
VANO 6	28.80	2942.58	2347.07	-1069.60	124.70	-110.82	190.13	28.80	-2382.32	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	119.37	763.54	600.47	476.49	356.37	872.56	702.00	602.65
VANO 6	28.80	2942.58	2347.07	-1069.60	124.70	-110.82	190.13	28.80	-2382.32	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	119.37	763.54	600.47	476.49	356.37	872.56	702.00	602.65
VANO 6	30.00	2718.88	2254.81	-1077.01	138.96	-117.78	190.12	30.00	-1985.10	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	107.41	770.67	580.54	488.38	347.78	879.27	687.68	613.83
VANO 6	31.20	2443.18	2142.54	-1086.08	153.22	-124.73	190.11	31.20	-1587.87	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	104.47	772.43	567.33	496.26	345.67	880.92	678.19	621.24
VANO 6	32.40	2115.47	2010.28	-1096.80	167.48	-131.69	190.11	32.40	-1190.64	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	110.54	768.81	560.84	500.13	350.03	877.52	673.53	624.88
VANO 6	33.60	1735.76	1858.06	-1109.19	181.74	-138.64	190.10	33.60	-793.41	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	125.62	759.81	561.07	500.00	360.86	869.06	673.69	624.75
VANO 6	33.60	1735.76	1858.06	-1109.19	181.74	-138.64	190.10	33.60	-793.41	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	125.62	759.81	561.07	500.00	360.86	869.06	673.69	624.75
VANO 6	34.80	1304.04	1685.93	-1123.25	195.99	-145.59	190.09	34.80	-396.18	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	149.71	745.44	568.02	495.85	378.17	855.54	678.69	620.85
VANO 6	36.00	820.32	1493.94	-1139.01	210.25	-152.55	190.09	36.00	1.04	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	182.79	725.70	581.69	487.69	401.93	836.98	688.51	613.18
VANO 6	37.20	284.59	1282.30	-1156.60	224.51	-159.50	190.08	37.20	398.27	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	224.85	700.60	602.11	475.51	432.15	813.39	703.18	601.73
VANO 6	38.40	-303.14	1066.98	-1191.95	238.77	-166.46	190.07	38.40	795.50	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	273.88	671.35	631.26	458.12	467.37	785.88	724.12	585.38
VANO 6	38.40	-303.14	1066.98	-1191.95	238.77	-166.46	190.07	38.40	795.50	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	273.88	671.35	631.26	458.12	467.37	785.88	724.12	585.38
VANO 6	39.60	-942.88	909.12	-1306.06	253.02	-173.41	190.07	39.60	1192.73	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	322.22	642.50	676.78	430.95	502.10	758.75	756.82	559.83
VANO 6	40.80	-1634.63	771.79	-1457.82	267.28	-180.37	190.06	40.80	1589.96	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	374.51	611.31	733.53	397.09	539.67	729.42	797.59	528.00
VANO 6	42.00	-2378.38	661.72	-1650.54	281.54	-187.32	190.06	42.00	1987.18	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	429.90	578.26	801.92	356.29	579.46	698.35	846.72	489.63
VANO 6	43.20	-3174.14	594.12	-1884.94	295.80	-194.28	190.05	43.20	2384.41	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	486.48	544.50	882.04	308.49	620.11	666.60	904.28	444.68
VANO 6	43.20	-3174.14	594.12	-1884.94	295.80	-194.28	190.05	43.20	2384.41	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	486.48	544.50	882.04	308.49	620.11	666.60	904.28	444.68
VANO 6	44.40	-4021.90	556.77	-2160.13	310.06	-201.23	190.04	44.40	2781.64	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	545.78	509.12	973.78	253.75	662.71	633.33	970.19	393.21
VANO 6	45.60	-4921.67	540.49	-2474.39	324.31	-208.18	190.04	45.60	3178.87	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	608.96	471.42	1076.92	192.21	708.10	597.89	1044.29	335.34
VANO 6	46.80	-5873.44	565.71	-2825.54	338.57	-215.14	190.03	46.80	3576.10	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	566.60	373.87	938.55	83.40	754.43	561.70	1126.38	271.23
VANO 6	48.00	-6877.22	608.30	-3211.29	352.83	-222.09	190.02	48.00	3807.87	0.00	0.00	2585.52	4093.74		-1507.71	-112.25	-321.43	630.93	323.64	1043.32	1.58	818.76	511.46	1231.15	189.41

		VANO 7 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO		AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 7	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	651.56	323.33	1047.42	14.19	830.51	502.29	1226.37	193.14
VANO 7	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	584.49	375.71	942.38	96.21	763.44	554.66	1121.34	275.17
VANO 7	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	628.31	476.03	1079.70	206.71	714.73	592.70	1039.01	339.46
VANO 7	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	562.35	515.39	976.14	268.50	667.34	629.71	964.62	397.56
VANO 7	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	499.68	552.78	883.88	323.54	622.32	664.87	898.33	449.32
VANO 7	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	499.68	552.78	883.88	323.54	622.32	664.87	898.33	449.32
VANO 7	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	440.50	588.09	803.12	371.73	579.81	698.07	840.32	494.63
VANO 7	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	381.78	623.13	733.96	413.00	537.62	731.02	790.63	533.43
VANO 7	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	326.23	656.27	676.28	447.41	497.71	762.18	749.19	565.79
VANO 7	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	274.40	687.20	629.98	475.04	460.47	791.27	715.93	591.77
VANO 7	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	274.40	687.20	629.98	475.04	460.47	791.27	715.93	591.77
VANO 7	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	223.10	717.80	598.73	493.68	423.62	820.04	693.48	609.30
VANO 7	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	179.94	743.56	574.96	507.86	392.62	844.26	676.41	622.63
VANO 7	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	145.62	764.03	557.98	517.99	367.96	863.51	664.21	632.16
VANO 7	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	120.20	779.20	547.74	524.11	349.70	877.78	656.84	637.91
VANO 7	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	120.20	779.20	547.74	524.11	349.70	877.78	656.84	637.91
VANO 7	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	105.57	787.93	546.10	525.09	339.19	885.98	655.67	638.83
VANO 7	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	99.87	791.34	551.18	522.05	335.09	889.18	659.32	635.98
VANO 7	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	103.08	789.42	562.99	515.01	337.40	887.38	667.80	629.35
VANO 7	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	115.22	782.17	581.51	503.96	346.12	880.57	681.11	618.96
VANO 7	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	115.22	782.17	581.51	503.96	346.12	880.57	681.11	618.96
VANO 7	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	136.28	769.61	606.76	488.89	361.25	868.75	699.25	604.80
VANO 7	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	166.28	751.71	638.72	469.82	382.80	851.92	722.21	586.86
VANO 7	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	205.21	728.48	677.41	446.74	410.77	830.08	750.00	565.16
VANO 7	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	242.71	706.11	712.51	425.80	437.71	809.05	775.22	545.47
VANO 7	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	242.71	706.11	712.51	425.80	437.71	809.05	775.22	545.47
VANO 7	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	206.87	727.49	679.03	445.77	411.96	829.15	751.17	564.25
VANO 7	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	169.56	749.75	641.97	467.88	385.16	850.08	724.54	585.04
VANO 7	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	141.18	766.69	611.63	485.99	364.77	866.01	702.74	602.07
VANO 7	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	121.73	778.29	588.01	500.08	350.79	876.92	685.77	615.32
VANO 7	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	121.73	778.29	588.01	500.08	350.79	876.92	685.77	615.32
VANO 7	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	111.20	784.57	571.10	510.17	343.23	882.82	673.63	624.80
VANO 7	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	109.60	785.53	560.92	516.24	342.08	883.72	666.32	630.51
VANO 7	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	116.92	781.16	557.46	518.31	347.34	879.61	663.83	632.45
VANO 7	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	133.16	771.47	560.72	516.36	359.01	870.50	666.17	630.63
VANO 7	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	133.16	771.47	560.72	516.36	359.01	870.50	666.17	630.63
VANO 7	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	158.32	756.46	570.71	510.40	377.08	856.39	673.35	625.02
VANO 7	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	192.37	736.14	587.42	500.43	401.54	837.29	685.36	615.64
VANO 7	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	235.26	710.55	610.92	486.41	432.36	813.22	702.24	602.46
VANO 7	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	286.33	680.08	641.86	467.95	469.05	784.57	724.46	585.10
VANO 7	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	286.33	680.08	641.86	467.95	469.05	784.57	724.46	585.10
VANO 7	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	337.95	649.28	687.85	440.51	506.13	755.61	757.50	559.30
VANO 7	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	393.29	616.26	745.21	406.28	545.89	724.56	798.71	527.12
VANO 7	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	451.82	581.34	814.05	365.21	587.93	691.73	848.17	488.50
VANO 7	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	510.36	546.41	894.49	317.21	630.00	658.88	905.96	443.37
VANO 7	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	510.36	546.41	894.49	317.21	630.00	658.88	905.96	443.37
VANO 7	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	572.79	509.16	986.44	262.35	674.84	623.85	972.02	391.78
VANO 7	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	638.67	469.85	1089.69	200.74	722.17	586.89	1046.19	333.85
VANO 7	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	591.75	370.04	949.35	90.77	770.70	549.00	1128.30	269.73
VANO 7	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74		-1416.00	-112.25	-321.43	658.61	317.83	1054.10	8.96	837.56	496.78	1233.06	187.92

	X	VANO 8 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 8	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	660.47	332.24	1056.33	23.10	830.51	502.29	1226.37	193.14
VANO 8	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	593.40	384.62	951.29	105.12	763.44	554.66	1121.34	275.17
VANO 8	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	638.47	486.19	1089.86	216.87	714.73	592.70	1039.01	339.46
VANO 8	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	572.51	525.55	986.30	278.66	667.34	629.71	964.62	397.56
VANO 8	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	509.84	562.95	894.04	333.71	622.32	664.87	898.33	449.32
VANO 8	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	509.84	562.95	894.04	333.71	622.32	664.87	898.33	449.32
VANO 8	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	450.67	598.25	813.28	381.89	579.81	698.07	840.32	494.63
VANO 8	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	391.94	633.29	744.12	423.16	537.62	731.02	790.63	533.43
VANO 8	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	336.39	666.43	686.44	457.57	497.71	762.18	749.19	565.79
VANO 8	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	284.56	697.36	640.14	485.20	460.47	791.27	715.93	591.77
VANO 8	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	284.56	697.36	640.14	485.20	460.47	791.27	715.93	591.77
VANO 8	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74		-1323.91	-112.25	-321.43	233.26	727.97	608.89	503.84	423.62	820.04	693.48	609.30
VANO 8	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	125.57	689.18	520.59	453.49	336.04	787.68	619.82	566.05
VANO 8	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	91.25	709.66	503.61	463.62	311.38	806.93	607.63	575.58
VANO 8	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	65.83	724.83	493.36	469.74	293.12	821.19	600.26	581.33
VANO 8	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	65.83	724.83	493.36	469.74	293.12	821.19	600.26	581.33
VANO 8	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	51.20	733.56	491.73	470.71	282.61	829.40	599.09	582.25
VANO 8	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	45.49	736.96	496.81	467.68	278.51	832.60	602.74	579.40
VANO 8	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	48.71	735.05	508.62	460.64	280.82	830.80	611.22	572.77
VANO 8	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	60.85	727.80	527.14	449.58	289.54	823.99	624.53	562.38
VANO 8	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	60.85	727.80	527.14	449.58	289.54	823.99	624.53	562.38
VANO 8	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	81.91	715.23	552.39	434.52	304.67	812.17	642.67	548.22
VANO 8	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	111.91	697.34	584.35	415.45	326.22	795.34	665.63	530.28
VANO 8	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	150.83	674.11	623.03	392.37	354.19	773.50	693.42	508.58
VANO 8	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	188.33	651.74	658.13	371.43	381.13	752.46	718.64	488.89
VANO 8	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	188.33	651.74	658.13	371.43	381.13	752.46	718.64	488.89
VANO 8	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	152.50	673.12	624.66	391.40	355.38	772.57	694.59	507.67
VANO 8	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	115.19	695.38	587.60	413.51	328.58	793.50	667.96	528.46
VANO 8	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	86.81	712.31	557.26	431.62	308.19	809.43	646.16	545.48
VANO 8	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	67.35	723.92	533.63	445.71	294.21	820.34	629.19	558.74
VANO 8	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	67.35	723.92	533.63	445.71	294.21	820.34	629.19	558.74
VANO 8	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	56.83	730.20	516.73	455.79	286.65	826.24	617.05	568.22
VANO 8	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	55.23	731.15	506.55	461.87	285.50	827.14	609.74	573.93
VANO 8	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	62.55	726.78	503.09	463.93	290.76	823.03	607.25	575.87
VANO 8	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	78.79	717.09	506.35	461.99	302.43	813.92	609.59	574.04
VANO 8	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	78.79	717.09	506.35	461.99	302.43	813.92	609.59	574.04
VANO 8	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	103.95	702.09	516.33	456.03	320.50	799.81	616.77	568.44
VANO 8	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	137.99	681.77	533.05	446.06	344.96	780.71	628.78	559.06
VANO 8	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	180.89	656.18	556.55	432.04	375.78	756.64	645.66	545.88
VANO 8	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	231.96	625.71	587.49	413.58	412.46	727.99	667.88	528.52
VANO 8	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	231.96	625.71	587.49	413.58	412.46	727.99	667.88	528.52
VANO 8	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	283.57	594.91	633.48	386.14	449.55	699.03	700.92	502.72
VANO 8	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	338.92	561.89	690.84	351.91	489.31	667.98	742.13	470.54
VANO 8	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	397.45	526.97	759.68	310.84	531.35	635.14	791.59	431.92
VANO 8	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	455.99	492.03	840.12	262.84	573.42	602.30	849.38	386.78
VANO 8	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	455.99	492.03	840.12	262.84	573.42	602.30	849.38	386.78
VANO 8	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	518.42	454.79	932.07	207.98	618.26	567.27	915.44	335.20
VANO 8	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	584.30	415.48	1035.32	146.37	665.59	530.31	989.61	277.27
VANO 8	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	651.85	375.18	1149.61	78.18	714.12	492.42	1071.72	213.15
VANO 8	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-112.25	-321.43	610.94	270.15	1006.43	-38.71	780.98	440.20	1176.48	131.34

VANO 9	X	CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 9	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	612.83	284.61	1008.69	-24.54	773.93	445.71	1169.79	136.56
VANO 9	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	545.76	336.98	903.66	57.49	706.86	498.08	1064.76	218.59
VANO 9	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	584.14	431.86	1035.53	162.54	658.15	536.12	982.43	282.88
VANO 9	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	518.18	471.22	931.97	224.33	610.76	573.13	908.04	340.98
VANO 9	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	455.51	508.62	839.71	279.38	565.74	608.29	841.75	392.74
VANO 9	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	455.51	508.62	839.71	279.38	565.74	608.29	841.75	392.74
VANO 9	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	396.34	543.92	758.95	327.56	523.23	641.49	783.73	438.05
VANO 9	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	337.61	578.96	689.79	368.83	481.04	674.44	734.05	476.85
VANO 9	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	282.06	612.10	632.11	403.24	441.13	705.60	692.61	509.21
VANO 9	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	230.23	643.03	585.81	430.87	403.89	734.69	659.35	535.19
VANO 9	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	230.23	643.03	585.81	430.87	403.89	734.69	659.35	535.19
VANO 9	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	178.93	673.64	554.56	449.51	367.04	763.46	636.90	552.72
VANO 9	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	135.77	699.39	530.80	463.69	336.04	787.68	619.82	566.05
VANO 9	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	101.46	719.86	513.82	473.83	311.38	806.93	607.63	575.58
VANO 9	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	76.03	735.03	503.57	479.94	293.12	821.19	600.26	581.33
VANO 9	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	76.03	735.03	503.57	479.94	293.12	821.19	600.26	581.33
VANO 9	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	61.41	743.76	501.93	480.92	282.61	829.40	599.09	582.25
VANO 9	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	55.70	747.17	507.02	477.88	278.51	832.60	602.74	579.40
VANO 9	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	58.91	745.25	518.82	470.84	280.82	830.80	611.22	572.77
VANO 9	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	71.05	738.01	537.35	459.79	289.54	823.99	624.53	562.38
VANO 9	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	71.05	738.01	537.35	459.79	289.54	823.99	624.53	562.38
VANO 9	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	92.12	725.44	562.59	444.72	304.67	812.17	642.67	548.22
VANO 9	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	122.11	707.54	594.55	425.65	326.22	795.34	665.63	530.28
VANO 9	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	161.04	684.31	633.24	402.57	354.19	773.50	693.42	508.58
VANO 9	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	198.54	661.94	668.34	381.63	381.13	752.46	718.64	488.89
VANO 9	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	198.54	661.94	668.34	381.63	381.13	752.46	718.64	488.89
VANO 9	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	162.70	683.32	634.86	401.60	355.38	772.57	694.59	507.67
VANO 9	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	125.39	705.58	597.80	423.72	328.58	793.50	667.96	528.46
VANO 9	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	97.01	722.52	567.46	441.82	308.19	809.43	646.16	545.48
VANO 9	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	77.56	734.12	543.84	455.91	294.21	820.34	629.19	558.74
VANO 9	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	77.56	734.12	543.84	455.91	294.21	820.34	629.19	558.74
VANO 9	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	67.03	740.40	526.94	466.00	286.65	826.24	617.05	568.22
VANO 9	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	65.43	741.36	516.75	472.07	285.50	827.14	609.74	573.93
VANO 9	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	72.76	736.99	513.29	474.14	290.76	823.03	607.25	575.87
VANO 9	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	89.00	727.30	516.55	472.19	302.43	813.92	609.59	574.04
VANO 9	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	89.00	727.30	516.55	472.19	302.43	813.92	609.59	574.04
VANO 9	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	114.15	712.29	526.54	466.23	320.50	799.81	616.77	568.44
VANO 9	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	148.20	691.97	543.26	456.26	344.96	780.71	628.78	559.06
VANO 9	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	191.09	666.38	566.75	442.24	375.78	756.64	645.66	545.88
VANO 9	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	242.16	635.91	597.69	423.78	412.46	727.99	667.88	528.52
VANO 9	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	242.16	635.91	597.69	423.78	412.46	727.99	667.88	528.52
VANO 9	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	293.78	605.11	643.68	396.34	449.55	699.03	700.92	502.72
VANO 9	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	349.12	572.09	701.04	362.12	489.31	667.98	742.13	470.54
VANO 9	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	407.65	537.17	769.88	321.04	531.35	635.14	791.59	431.92
VANO 9	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	466.20	502.24	850.33	273.04	573.42	602.30	849.38	386.78
VANO 9	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	466.20	502.24	850.33	273.04	573.42	602.30	849.38	386.78
VANO 9	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	528.62	464.99	942.27	218.18	618.26	567.27	915.44	335.20
VANO 9	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	594.50	425.68	1045.53	156.58	665.59	530.31	989.61	277.27
VANO 9	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	553.02	331.32	910.62	52.05	714.12	492.42	1071.72	213.15
VANO 9	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-112.25	-321.43	619.88	279.10	1015.38	-29.76	780.98	440.20	1176.48	131.34

VANO 10	X	CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 10	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	621.71	293.49	1017.58	-15.66	773.93	445.71	1169.79	136.56
VANO 10	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	554.64	345.87	912.54	66.37	706.86	498.08	1064.76	218.59
VANO 10	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	594.27	442.00	1045.66	172.67	658.15	536.12	982.43	282.88
VANO 10	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	528.31	481.35	942.10	234.46	610.76	573.13	908.04	340.98
VANO 10	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	465.64	518.75	849.84	289.51	565.74	608.29	841.75	392.74
VANO 10	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	465.64	518.75	849.84	289.51	565.74	608.29	841.75	392.74
VANO 10	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	406.47	554.05	769.08	337.69	523.23	641.49	783.73	438.05
VANO 10	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	347.74	589.09	699.92	378.96	481.04	674.44	734.05	476.85
VANO 10	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	292.19	622.24	642.24	413.37	441.13	705.60	692.61	509.21
VANO 10	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	240.36	653.16	595.94	441.00	403.89	734.69	659.35	535.19
VANO 10	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	240.36	653.16	595.94	441.00	403.89	734.69	659.35	535.19
VANO 10	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	189.06	683.77	564.69	459.65	367.04	763.46	636.90	552.72
VANO 10	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	145.91	709.52	540.93	473.83	336.04	787.68	619.82	566.05
VANO 10	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	111.59	730.00	523.95	483.96	311.38	806.93	607.63	575.58
VANO 10	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	86.16	745.16	513.70	490.07	293.12	821.19	600.26	581.33
VANO 10	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	86.16	745.16	513.70	490.07	293.12	821.19	600.26	581.33
VANO 10	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	71.54	753.89	512.06	491.05	282.61	829.40	599.09	582.25
VANO 10	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	65.83	757.30	517.15	488.01	278.51	832.60	602.74	579.40
VANO 10	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	69.04	755.38	528.95	480.97	280.82	830.80	611.22	572.77
VANO 10	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	81.18	748.14	547.48	469.92	289.54	823.99	624.53	562.38
VANO 10	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	81.18	748.14	547.48	469.92	289.54	823.99	624.53	562.38
VANO 10	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	102.25	735.57	572.72	454.86	304.67	812.17	642.67	548.22
VANO 10	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	132.24	717.67	604.68	435.78	326.22	795.34	665.63	530.28
VANO 10	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	171.17	694.45	643.37	412.70	354.19	773.50	693.42	508.58
VANO 10	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	208.67	672.07	678.47	391.76	381.13	752.46	718.64	488.89
VANO 10	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	208.67	672.07	678.47	391.76	381.13	752.46	718.64	488.89
VANO 10	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	172.84	693.45	644.99	411.73	355.38	772.57	694.59	507.67
VANO 10	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	135.52	715.71	607.93	433.85	328.58	793.50	667.96	528.46
VANO 10	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	107.14	732.65	577.59	451.95	308.19	809.43	646.16	545.48
VANO 10	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	87.69	744.25	553.97	466.04	294.21	820.34	629.19	558.74
VANO 10	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	87.69	744.25	553.97	466.04	294.21	820.34	629.19	558.74
VANO 10	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	77.16	750.53	537.07	476.13	286.65	826.24	617.05	568.22
VANO 10	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	75.56	751.49	526.89	482.20	285.50	827.14	609.74	573.93
VANO 10	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	82.89	747.12	523.42	484.27	290.76	823.03	607.25	575.87
VANO 10	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	99.13	737.43	526.68	482.32	302.43	813.92	609.59	574.04
VANO 10	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	99.13	737.43	526.68	482.32	302.43	813.92	609.59	574.04
VANO 10	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	124.28	722.42	536.67	476.37	320.50	799.81	616.77	568.44
VANO 10	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	158.33	702.11	553.39	466.39	344.96	780.71	628.78	559.06
VANO 10	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	201.22	676.51	576.88	452.37	375.78	756.64	645.66	545.88
VANO 10	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	252.29	646.04	607.82	433.91	412.46	727.99	667.88	528.52
VANO 10	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	252.29	646.04	607.82	433.91	412.46	727.99	667.88	528.52
VANO 10	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	303.91	615.25	653.81	406.47	449.55	699.03	700.92	502.72
VANO 10	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	359.25	582.22	711.17	372.25	489.31	667.98	742.13	470.54
VANO 10	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	417.78	547.30	780.01	331.17	531.35	635.14	791.59	431.92
VANO 10	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	476.33	512.37	860.46	283.17	573.42	602.30	849.38	386.78
VANO 10	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	476.33	512.37	860.46	283.17	573.42	602.30	849.38	386.78
VANO 10	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	538.75	475.12	952.41	228.31	618.26	567.27	915.44	335.20
VANO 10	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	604.63	435.81	1055.66	166.71	665.59	530.31	989.61	277.27
VANO 10	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	561.90	340.20	919.50	60.93	714.12	492.42	1071.72	213.15
VANO 10	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-112.25	-321.43	628.77	287.98	1024.26	-20.88	780.98	440.20	1176.48	131.34

	X	VANO 11 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 11	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	630.68	302.45	1026.54	-6.69	773.93	445.71	1169.79	136.56
VANO 11	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	563.61	354.83	921.50	75.34	706.86	498.08	1064.76	218.59
VANO 11	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	604.50	452.22	1055.89	182.89	658.15	536.12	982.43	282.88
VANO 11	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	538.54	491.58	952.33	244.68	610.76	573.13	908.04	340.98
VANO 11	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	475.86	528.97	860.07	299.73	565.74	608.29	841.75	392.74
VANO 11	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	475.86	528.97	860.07	299.73	565.74	608.29	841.75	392.74
VANO 11	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	416.69	564.28	779.31	347.92	523.23	641.49	783.73	438.05
VANO 11	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	357.96	599.32	710.14	389.18	481.04	674.44	734.05	476.85
VANO 11	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	302.42	632.46	652.47	423.60	441.13	705.60	692.61	509.21
VANO 11	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	250.58	663.39	606.16	451.23	403.89	734.69	659.35	535.19
VANO 11	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	250.58	663.39	606.16	451.23	403.89	734.69	659.35	535.19
VANO 11	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	199.29	693.99	574.92	469.87	367.04	763.46	636.90	552.72
VANO 11	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	156.13	719.74	551.15	484.05	336.04	787.68	619.82	566.05
VANO 11	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	121.81	740.22	534.17	494.18	311.38	806.93	607.63	575.58
VANO 11	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	96.39	755.39	523.92	500.30	293.12	821.19	600.26	581.33
VANO 11	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	96.39	755.39	523.92	500.30	293.12	821.19	600.26	581.33
VANO 11	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	81.76	764.12	522.29	501.27	282.61	829.40	599.09	582.25
VANO 11	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	76.05	767.52	527.37	498.24	278.51	832.60	602.74	579.40
VANO 11	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	79.27	765.60	539.18	491.19	280.82	830.80	611.22	572.77
VANO 11	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	91.40	758.36	557.70	480.14	289.54	823.99	624.53	562.38
VANO 11	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	91.40	758.36	557.70	480.14	289.54	823.99	624.53	562.38
VANO 11	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	112.47	745.79	582.94	465.08	304.67	812.17	642.67	548.22
VANO 11	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	142.47	727.89	614.91	446.01	326.22	795.34	665.63	530.28
VANO 11	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	181.39	704.67	653.59	422.93	354.19	773.50	693.42	508.58
VANO 11	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	218.89	682.29	688.69	401.98	381.13	752.46	718.64	488.89
VANO 11	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	218.89	682.29	688.69	401.98	381.13	752.46	718.64	488.89
VANO 11	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	183.06	703.67	655.22	421.96	355.38	772.57	694.59	507.67
VANO 11	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	145.75	725.94	618.15	444.07	328.58	793.50	667.96	528.46
VANO 11	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	117.36	742.87	587.81	462.17	308.19	809.43	646.16	545.48
VANO 11	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	97.91	754.48	564.19	476.27	294.21	820.34	629.19	558.74
VANO 11	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	97.91	754.48	564.19	476.27	294.21	820.34	629.19	558.74
VANO 11	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	87.39	760.76	547.29	486.35	286.65	826.24	617.05	568.22
VANO 11	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	85.79	761.71	537.11	492.43	285.50	827.14	609.74	573.93
VANO 11	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	93.11	757.34	533.65	494.49	290.76	823.03	607.25	575.87
VANO 11	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	109.35	747.65	536.91	492.55	302.43	813.92	609.59	574.04
VANO 11	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	109.35	747.65	536.91	492.55	302.43	813.92	609.59	574.04
VANO 11	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	134.50	732.65	546.89	486.59	320.50	799.81	616.77	568.44
VANO 11	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	168.55	712.33	563.61	476.62	344.96	780.71	628.78	559.06
VANO 11	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	211.45	686.74	587.11	462.60	375.78	756.64	645.66	545.88
VANO 11	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	262.51	656.27	618.05	444.14	412.46	727.99	667.88	528.52
VANO 11	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	262.51	656.27	618.05	444.14	412.46	727.99	667.88	528.52
VANO 11	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	314.13	625.47	664.04	416.69	449.55	699.03	700.92	502.72
VANO 11	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	369.48	592.45	721.40	382.47	489.31	667.98	742.13	470.54
VANO 11	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	428.00	557.53	790.24	341.40	531.35	635.14	791.59	431.92
VANO 11	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	486.55	522.59	870.68	293.40	573.42	602.30	849.38	386.78
VANO 11	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	486.55	522.59	870.68	293.40	573.42	602.30	849.38	386.78
VANO 11	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	548.98	485.35	962.63	238.54	618.26	567.27	915.44	335.20
VANO 11	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	614.86	446.04	1065.88	176.93	665.59	530.31	989.61	277.27
VANO 11	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	570.87	349.16	928.47	69.90	714.12	492.42	1071.72	213.15
VANO 11	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-112.25	-321.43	637.73	296.95	1033.23	-11.91	780.98	440.20	1176.48	131.34

	X	VANO 12 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 12	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	639.57	311.35	1035.43	2.20	773.93	445.71	1169.79	136.56
VANO 12	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	572.50	363.72	930.40	84.23	706.86	498.08	1064.76	218.59
VANO 12	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	614.64	462.36	1066.03	193.04	658.15	536.12	982.43	282.88
VANO 12	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	548.68	501.72	962.47	254.83	610.76	573.13	908.04	340.98
VANO 12	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	486.00	539.11	870.21	309.87	565.74	608.29	841.75	392.74
VANO 12	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	486.00	539.11	870.21	309.87	565.74	608.29	841.75	392.74
VANO 12	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	426.83	574.42	789.45	358.06	523.23	641.49	783.73	438.05
VANO 12	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	368.11	609.46	720.29	399.33	481.04	674.44	734.05	476.85
VANO 12	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	312.56	642.60	662.61	433.74	441.13	705.60	692.61	509.21
VANO 12	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	260.72	673.53	616.30	461.37	403.89	734.69	659.35	535.19
VANO 12	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	260.72	673.53	616.30	461.37	403.89	734.69	659.35	535.19
VANO 12	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	209.43	704.13	585.06	480.01	367.04	763.46	636.90	552.72
VANO 12	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	166.27	729.88	561.29	494.19	336.04	787.68	619.82	566.05
VANO 12	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	131.95	750.36	544.31	504.32	311.38	806.93	607.63	575.58
VANO 12	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	106.53	765.53	534.07	510.44	293.12	821.19	600.26	581.33
VANO 12	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	106.53	765.53	534.07	510.44	293.12	821.19	600.26	581.33
VANO 12	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	91.90	774.26	532.43	511.41	282.61	829.40	599.09	582.25
VANO 12	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	86.19	777.66	537.51	508.38	278.51	832.60	602.74	579.40
VANO 12	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	89.41	775.75	549.32	501.34	280.82	830.80	611.22	572.77
VANO 12	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	101.55	768.50	567.84	490.28	289.54	823.99	624.53	562.38
VANO 12	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	101.55	768.50	567.84	490.28	289.54	823.99	624.53	562.38
VANO 12	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	122.61	755.93	593.09	475.22	304.67	812.17	642.67	548.22
VANO 12	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	152.61	738.04	625.05	456.15	326.22	795.34	665.63	530.28
VANO 12	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	191.54	714.81	663.73	433.07	354.19	773.50	693.42	508.58
VANO 12	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	229.03	692.44	698.83	412.13	381.13	752.46	718.64	488.89
VANO 12	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	229.03	692.44	698.83	412.13	381.13	752.46	718.64	488.89
VANO 12	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	193.20	713.82	665.36	432.10	355.38	772.57	694.59	507.67
VANO 12	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	155.89	736.08	628.30	454.21	328.58	793.50	667.96	528.46
VANO 12	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	127.51	753.01	597.96	472.32	308.19	809.43	646.16	545.48
VANO 12	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	108.05	764.62	574.34	486.41	294.21	820.34	629.19	558.74
VANO 12	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	108.05	764.62	574.34	486.41	294.21	820.34	629.19	558.74
VANO 12	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	97.53	770.90	557.43	496.49	286.65	826.24	617.05	568.22
VANO 12	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	95.93	771.86	547.25	502.57	285.50	827.14	609.74	573.93
VANO 12	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	103.25	767.49	543.79	504.63	290.76	823.03	607.25	575.87
VANO 12	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	119.49	757.80	547.05	502.69	302.43	813.92	609.59	574.04
VANO 12	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	119.49	757.80	547.05	502.69	302.43	813.92	609.59	574.04
VANO 12	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	144.65	742.79	557.04	496.73	320.50	799.81	616.77	568.44
VANO 12	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	178.70	722.47	573.75	486.76	344.96	780.71	628.78	559.06
VANO 12	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	221.59	696.88	597.25	472.74	375.78	756.64	645.66	545.88
VANO 12	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	272.66	666.41	628.19	454.28	412.46	727.99	667.88	528.52
VANO 12	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	272.66	666.41	628.19	454.28	412.46	727.99	667.88	528.52
VANO 12	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	324.27	635.61	674.18	426.84	449.55	699.03	700.92	502.72
VANO 12	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	379.62	602.59	731.54	392.61	489.31	667.98	742.13	470.54
VANO 12	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	438.15	567.67	800.38	351.54	531.35	635.14	791.59	431.92
VANO 12	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	496.69	532.74	880.82	303.54	573.42	602.30	849.38	386.78
VANO 12	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	496.69	532.74	880.82	303.54	573.42	602.30	849.38	386.78
VANO 12	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	559.12	495.49	972.77	248.68	618.26	567.27	915.44	335.20
VANO 12	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	625.00	456.18	1076.02	187.07	665.59	530.31	989.61	277.27
VANO 12	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	579.76	358.06	937.36	78.79	714.12	492.42	1071.72	213.15
VANO 12	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-112.25	-321.43	646.62	305.84	1042.12	-3.02	780.98	440.20	1176.48	131.34

	X	VANO 13 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 13	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	648.49	320.27	1044.35	11.12	773.93	445.71	1169.79	136.56
VANO 13	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	581.42	372.64	939.32	93.15	706.86	498.08	1064.76	218.59
VANO 13	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	624.81	472.53	1076.20	203.21	658.15	536.12	982.43	282.88
VANO 13	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	558.85	511.89	972.64	265.00	610.76	573.13	908.04	340.98
VANO 13	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	496.18	549.29	880.38	320.05	565.74	608.29	841.75	392.74
VANO 13	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	496.18	549.29	880.38	320.05	565.74	608.29	841.75	392.74
VANO 13	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	437.01	584.59	799.62	368.23	523.23	641.49	783.73	438.05
VANO 13	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	378.28	619.63	730.46	409.50	481.04	674.44	734.05	476.85
VANO 13	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	322.73	652.77	672.78	443.91	441.13	705.60	692.61	509.21
VANO 13	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	270.90	683.70	626.48	471.54	403.89	734.69	659.35	535.19
VANO 13	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	270.90	683.70	626.48	471.54	403.89	734.69	659.35	535.19
VANO 13	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	219.60	714.31	595.23	490.18	367.04	763.46	636.90	552.72
VANO 13	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	176.44	740.06	571.47	504.36	336.04	787.68	619.82	566.05
VANO 13	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	142.13	760.53	554.49	514.50	311.38	806.93	607.63	575.58
VANO 13	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	116.70	775.70	544.24	520.61	293.12	821.19	600.26	581.33
VANO 13	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	116.70	775.70	544.24	520.61	293.12	821.19	600.26	581.33
VANO 13	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	102.08	784.43	542.60	521.59	282.61	829.40	599.09	582.25
VANO 13	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	96.37	787.84	547.69	518.55	278.51	832.60	602.74	579.40
VANO 13	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	99.58	785.92	559.49	511.51	280.82	830.80	611.22	572.77
VANO 13	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	111.72	778.68	578.02	500.46	289.54	823.99	624.53	562.38
VANO 13	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	111.72	778.68	578.02	500.46	289.54	823.99	624.53	562.38
VANO 13	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	132.79	766.11	603.26	485.39	304.67	812.17	642.67	548.22
VANO 13	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	162.78	748.21	635.22	466.32	326.22	795.34	665.63	530.28
VANO 13	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	201.71	724.98	673.91	443.24	354.19	773.50	693.42	508.58
VANO 13	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	239.21	702.61	709.01	422.30	381.13	752.46	718.64	488.89
VANO 13	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	239.21	702.61	709.01	422.30	381.13	752.46	718.64	488.89
VANO 13	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	203.37	723.99	675.53	442.27	355.38	772.57	694.59	507.67
VANO 13	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	166.06	746.25	638.47	464.39	328.58	793.50	667.96	528.46
VANO 13	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	137.68	763.19	608.13	482.49	308.19	809.43	646.16	545.48
VANO 13	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	118.23	774.79	584.51	496.58	294.21	820.34	629.19	558.74
VANO 13	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	118.23	774.79	584.51	496.58	294.21	820.34	629.19	558.74
VANO 13	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	107.70	781.07	567.61	506.67	286.65	826.24	617.05	568.22
VANO 13	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	106.10	782.03	557.42	512.74	285.50	827.14	609.74	573.93
VANO 13	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	113.43	777.66	553.96	514.81	290.76	823.03	607.25	575.87
VANO 13	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	129.67	767.97	557.22	512.86	302.43	813.92	609.59	574.04
VANO 13	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	129.67	767.97	557.22	512.86	302.43	813.92	609.59	574.04
VANO 13	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	154.82	752.96	567.21	506.91	320.50	799.81	616.77	568.44
VANO 13	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	188.87	732.65	583.93	496.93	344.96	780.71	628.78	559.06
VANO 13	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	231.76	707.05	607.42	482.91	375.78	756.64	645.66	545.88
VANO 13	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	282.83	676.58	638.36	464.45	412.46	727.99	667.88	528.52
VANO 13	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	282.83	676.58	638.36	464.45	412.46	727.99	667.88	528.52
VANO 13	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	334.45	645.78	684.35	437.01	449.55	699.03	700.92	502.72
VANO 13	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	389.79	612.76	741.71	402.79	489.31	667.98	742.13	470.54
VANO 13	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	448.32	577.84	810.55	361.71	531.35	635.14	791.59	431.92
VANO 13	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	506.87	542.91	891.00	313.71	573.42	602.30	849.38	386.78
VANO 13	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	506.87	542.91	891.00	313.71	573.42	602.30	849.38	386.78
VANO 13	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	569.29	505.66	982.94	258.85	618.26	567.27	915.44	335.20
VANO 13	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	635.17	466.35	1086.20	197.25	665.59	530.31	989.61	277.27
VANO 13	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	588.68	366.97	946.28	87.71	714.12	492.42	1071.72	213.15
VANO 13	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-112.25	-321.43	655.54	314.76	1051.04	5.90	780.98	440.20	1176.48	131.34

	X	VANO 14 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 14	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	657.43	329.21	1053.29	20.06	773.93	445.71	1169.79	136.56
VANO 14	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	590.36	381.58	948.26	102.09	706.86	498.08	1064.76	218.59
VANO 14	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	635.01	482.73	1086.40	213.41	658.15	536.12	982.43	282.88
VANO 14	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	569.05	522.09	982.84	275.20	610.76	573.13	908.04	340.98
VANO 14	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	506.37	559.48	890.58	330.24	565.74	608.29	841.75	392.74
VANO 14	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	506.37	559.48	890.58	330.24	565.74	608.29	841.75	392.74
VANO 14	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	447.20	594.79	809.82	378.43	523.23	641.49	783.73	438.05
VANO 14	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	388.48	629.83	740.66	419.70	481.04	674.44	734.05	476.85
VANO 14	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	332.93	662.97	682.98	454.11	441.13	705.60	692.61	509.21
VANO 14	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	281.09	693.90	636.67	481.74	403.89	734.69	659.35	535.19
VANO 14	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	281.09	693.90	636.67	481.74	403.89	734.69	659.35	535.19
VANO 14	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	229.80	724.50	605.43	500.38	367.04	763.46	636.90	552.72
VANO 14	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	186.64	750.26	581.66	514.56	336.04	787.68	619.82	566.05
VANO 14	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	152.32	770.73	564.68	524.69	311.38	806.93	607.63	575.58
VANO 14	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	126.90	785.90	554.44	530.81	293.12	821.19	600.26	581.33
VANO 14	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	126.90	785.90	554.44	530.81	293.12	821.19	600.26	581.33
VANO 14	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	112.27	794.63	552.80	531.78	282.61	829.40	599.09	582.25
VANO 14	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	106.56	798.03	557.88	528.75	278.51	832.60	602.74	579.40
VANO 14	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	109.78	796.12	569.69	521.71	280.82	830.80	611.22	572.77
VANO 14	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	121.92	788.87	588.21	510.65	289.54	823.99	624.53	562.38
VANO 14	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	121.92	788.87	588.21	510.65	289.54	823.99	624.53	562.38
VANO 14	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	142.98	776.30	613.46	495.59	304.67	812.17	642.67	548.22
VANO 14	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	172.98	758.41	645.42	476.52	326.22	795.34	665.63	530.28
VANO 14	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	211.91	735.18	684.10	453.44	354.19	773.50	693.42	508.58
VANO 14	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	249.40	712.81	719.20	432.50	381.13	752.46	718.64	488.89
VANO 14	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	249.40	712.81	719.20	432.50	381.13	752.46	718.64	488.89
VANO 14	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	213.57	734.19	685.73	452.47	355.38	772.57	694.59	507.67
VANO 14	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	176.26	756.45	648.67	474.58	328.58	793.50	667.96	528.46
VANO 14	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	147.88	773.38	618.33	492.69	308.19	809.43	646.16	545.48
VANO 14	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	128.42	784.99	594.71	506.78	294.21	820.34	629.19	558.74
VANO 14	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	128.42	784.99	594.71	506.78	294.21	820.34	629.19	558.74
VANO 14	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	117.90	791.27	577.80	516.86	286.65	826.24	617.05	568.22
VANO 14	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	116.30	792.23	567.62	522.94	285.50	827.14	609.74	573.93
VANO 14	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	123.62	787.86	564.16	525.00	290.76	823.03	607.25	575.87
VANO 14	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	139.86	778.17	567.42	523.06	302.43	813.92	609.59	574.04
VANO 14	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	139.86	778.17	567.42	523.06	302.43	813.92	609.59	574.04
VANO 14	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	165.02	763.16	577.41	517.10	320.50	799.81	616.77	568.44
VANO 14	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	199.07	742.84	594.12	507.13	344.96	780.71	628.78	559.06
VANO 14	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	241.96	717.25	617.62	493.11	375.78	756.64	645.66	545.88
VANO 14	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	293.03	686.78	648.56	474.65	412.46	727.99	667.88	528.52
VANO 14	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	293.03	686.78	648.56	474.65	412.46	727.99	667.88	528.52
VANO 14	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	344.64	655.98	694.55	447.21	449.55	699.03	700.92	502.72
VANO 14	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	399.99	622.96	751.91	412.98	489.31	667.98	742.13	470.54
VANO 14	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	458.52	588.04	820.75	371.91	531.35	635.14	791.59	431.92
VANO 14	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	517.06	553.11	901.19	323.91	573.42	602.30	849.38	386.78
VANO 14	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	517.06	553.11	901.19	323.91	573.42	602.30	849.38	386.78
VANO 14	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	579.49	515.86	993.14	269.05	618.26	567.27	915.44	335.20
VANO 14	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	645.37	476.55	1096.39	207.44	665.59	530.31	989.61	277.27
VANO 14	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	597.62	375.92	955.22	96.65	714.12	492.42	1071.72	213.15
VANO 14	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-112.25	-321.43	664.48	323.70	1059.98	14.84	780.98	440.20	1176.48	131.34

	X	VANO 15 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 15	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	666.33	338.11	1062.19	28.96	773.93	445.71	1169.79	136.56
VANO 15	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	599.26	390.48	957.15	110.99	706.86	498.08	1064.76	218.59
VANO 15	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	645.16	492.88	1096.55	223.56	658.15	536.12	982.43	282.88
VANO 15	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	579.20	532.24	992.99	285.35	610.76	573.13	908.04	340.98
VANO 15	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	516.52	569.63	900.73	340.39	565.74	608.29	841.75	392.74
VANO 15	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	516.52	569.63	900.73	340.39	565.74	608.29	841.75	392.74
VANO 15	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	457.35	604.94	819.97	388.58	523.23	641.49	783.73	438.05
VANO 15	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	398.63	639.98	750.81	429.85	481.04	674.44	734.05	476.85
VANO 15	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	343.08	673.12	693.13	464.26	441.13	705.60	692.61	509.21
VANO 15	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	291.24	704.05	646.82	491.89	403.89	734.69	659.35	535.19
VANO 15	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	291.24	704.05	646.82	491.89	403.89	734.69	659.35	535.19
VANO 15	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	239.95	734.65	615.58	510.53	367.04	763.46	636.90	552.72
VANO 15	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	196.79	760.41	591.81	524.71	336.04	787.68	619.82	566.05
VANO 15	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	162.47	780.88	574.83	534.84	311.38	806.93	607.63	575.58
VANO 15	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	137.05	796.05	564.59	540.96	293.12	821.19	600.26	581.33
VANO 15	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	137.05	796.05	564.59	540.96	293.12	821.19	600.26	581.33
VANO 15	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	122.42	804.78	562.95	541.93	282.61	829.40	599.09	582.25
VANO 15	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	116.71	808.18	568.03	538.90	278.51	832.60	602.74	579.40
VANO 15	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	119.93	806.27	579.84	531.86	280.82	830.80	611.22	572.77
VANO 15	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	132.07	799.02	598.36	520.80	289.54	823.99	624.53	562.38
VANO 15	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	132.07	799.02	598.36	520.80	289.54	823.99	624.53	562.38
VANO 15	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	153.13	786.45	623.61	505.74	304.67	812.17	642.67	548.22
VANO 15	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	183.13	768.56	655.57	486.67	326.22	795.34	665.63	530.28
VANO 15	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	222.06	745.33	694.25	463.59	354.19	773.50	693.42	508.58
VANO 15	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	259.55	722.96	729.35	442.65	381.13	752.46	718.64	488.89
VANO 15	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	259.55	722.96	729.35	442.65	381.13	752.46	718.64	488.89
VANO 15	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	223.72	744.34	695.88	462.62	355.38	772.57	694.59	507.67
VANO 15	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	186.41	766.60	658.82	484.73	328.58	793.50	667.96	528.46
VANO 15	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	158.03	783.53	628.48	502.84	308.19	809.43	646.16	545.48
VANO 15	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	138.57	795.14	604.86	516.93	294.21	820.34	629.19	558.74
VANO 15	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	138.57	795.14	604.86	516.93	294.21	820.34	629.19	558.74
VANO 15	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	128.05	801.42	587.95	527.01	286.65	826.24	617.05	568.22
VANO 15	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	126.45	802.38	577.77	533.09	285.50	827.14	609.74	573.93
VANO 15	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	133.77	798.01	574.31	535.15	290.76	823.03	607.25	575.87
VANO 15	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	150.01	788.32	577.57	533.21	302.43	813.92	609.59	574.04
VANO 15	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	150.01	788.32	577.57	533.21	302.43	813.92	609.59	574.04
VANO 15	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	175.17	773.31	587.56	527.25	320.50	799.81	616.77	568.44
VANO 15	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	209.22	752.99	604.27	517.28	344.96	780.71	628.78	559.06
VANO 15	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	252.11	727.40	627.77	503.26	375.78	756.64	645.66	545.88
VANO 15	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	303.18	696.93	658.71	484.80	412.46	727.99	667.88	528.52
VANO 15	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	303.18	696.93	658.71	484.80	412.46	727.99	667.88	528.52
VANO 15	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	354.79	666.13	704.70	457.36	449.55	699.03	700.92	502.72
VANO 15	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	410.14	633.11	762.06	423.13	489.31	667.98	742.13	470.54
VANO 15	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	468.67	598.19	830.90	382.06	531.35	635.14	791.59	431.92
VANO 15	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	527.21	563.26	911.34	334.06	573.42	602.30	849.38	386.78
VANO 15	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	527.21	563.26	911.34	334.06	573.42	602.30	849.38	386.78
VANO 15	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	589.64	526.01	1003.29	279.20	618.26	567.27	915.44	335.20
VANO 15	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	655.52	486.70	1106.54	217.59	665.59	530.31	989.61	277.27
VANO 15	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	606.52	384.81	964.12	105.55	714.12	492.42	1071.72	213.15
VANO 15	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-112.25	-321.43	673.38	332.60	1068.88	23.74	780.98	440.20	1176.48	131.34

	X	VANO 16 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 16	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	675.26	347.04	1071.12	37.89	773.93	445.71	1169.79	136.56
VANO 16	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	608.19	399.41	966.09	119.92	706.86	498.08	1064.76	218.59
VANO 16	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	655.35	503.07	1106.74	233.74	658.15	536.12	982.43	282.88
VANO 16	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	589.39	542.42	1003.18	295.53	610.76	573.13	908.04	340.98
VANO 16	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	526.71	579.82	910.92	350.58	565.74	608.29	841.75	392.74
VANO 16	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	526.71	579.82	910.92	350.58	565.74	608.29	841.75	392.74
VANO 16	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	467.54	615.13	830.16	398.77	523.23	641.49	783.73	438.05
VANO 16	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	408.81	650.17	760.99	440.03	481.04	674.44	734.05	476.85
VANO 16	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	353.27	683.31	703.32	474.45	441.13	705.60	692.61	509.21
VANO 16	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	301.43	714.24	657.01	502.08	403.89	734.69	659.35	535.19
VANO 16	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	301.43	714.24	657.01	502.08	403.89	734.69	659.35	535.19
VANO 16	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	250.14	744.84	625.77	520.72	367.04	763.46	636.90	552.72
VANO 16	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	206.98	770.59	602.00	534.90	336.04	787.68	619.82	566.05
VANO 16	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	172.66	791.07	585.02	545.03	311.38	806.93	607.63	575.58
VANO 16	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	147.24	806.24	574.77	551.14	293.12	821.19	600.26	581.33
VANO 16	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	147.24	806.24	574.77	551.14	293.12	821.19	600.26	581.33
VANO 16	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	132.61	814.97	573.14	552.12	282.61	829.40	599.09	582.25
VANO 16	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	126.90	818.37	578.22	549.09	278.51	832.60	602.74	579.40
VANO 16	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	130.12	816.45	590.02	542.04	280.82	830.80	611.22	572.77
VANO 16	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	142.25	809.21	608.55	530.99	289.54	823.99	624.53	562.38
VANO 16	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	142.25	809.21	608.55	530.99	289.54	823.99	624.53	562.38
VANO 16	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	163.32	796.64	633.79	515.93	304.67	812.17	642.67	548.22
VANO 16	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	193.32	778.74	665.76	496.86	326.22	795.34	665.63	530.28
VANO 16	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	232.24	755.52	704.44	473.78	354.19	773.50	693.42	508.58
VANO 16	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	269.74	733.14	739.54	452.83	381.13	752.46	718.64	488.89
VANO 16	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	269.74	733.14	739.54	452.83	381.13	752.46	718.64	488.89
VANO 16	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	233.91	754.52	706.06	472.81	355.38	772.57	694.59	507.67
VANO 16	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-321.43	196.60	776.79	669.00	494.92	328.58	793.50	667.96	528.46
VANO 16	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-320.79	168.29	793.79	638.73	513.09	308.19	809.43	646.16	545.48
VANO 16	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-319.50	148.97	805.54	615.26	527.33	294.21	820.34	629.19	558.74
VANO 16	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-319.50	148.97	805.54	615.26	527.33	294.21	820.34	629.19	558.74
VANO 16	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-318.22	138.59	811.96	598.50	537.56	286.65	826.24	617.05	568.22
VANO 16	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-316.93	137.13	813.06	588.46	543.77	285.50	827.14	609.74	573.93
VANO 16	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-315.64	144.60	808.83	585.14	545.98	290.76	823.03	607.25	575.87
VANO 16	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-314.36	160.98	799.28	588.54	544.18	302.43	813.92	609.59	574.04
VANO 16	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-314.36	160.98	799.28	588.54	544.18	302.43	813.92	609.59	574.04
VANO 16	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-313.07	186.28	784.42	598.67	538.36	320.50	799.81	616.77	568.44
VANO 16	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-311.79	220.47	764.24	615.52	528.53	344.96	780.71	628.78	559.06
VANO 16	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-310.50	263.50	738.79	639.16	514.65	375.78	756.64	645.66	545.88
VANO 16	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-309.22	314.71	708.46	670.24	496.33	412.46	727.99	667.88	528.52
VANO 16	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-309.22	314.71	708.46	670.24	496.33	412.46	727.99	667.88	528.52
VANO 16	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-307.93	366.47	677.81	716.38	469.03	449.55	699.03	700.92	502.72
VANO 16	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-306.64	421.96	644.93	773.88	434.95	489.31	667.98	742.13	470.54
VANO 16	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-305.36	480.63	610.15	842.86	394.02	531.35	635.14	791.59	431.92
VANO 16	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-304.07	539.32	575.36	923.45	346.16	573.42	602.30	849.38	386.78
VANO 16	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-304.07	539.32	575.36	923.45	346.16	573.42	602.30	849.38	386.78
VANO 16	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-302.79	601.88	538.25	1015.54	291.44	618.26	567.27	915.44	335.20
VANO 16	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-301.50	667.91	499.09	1118.93	229.98	665.59	530.31	989.61	277.27
VANO 16	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-300.22	617.50	395.80	975.10	116.53	714.12	492.42	1071.72	213.15
VANO 16	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-112.25	-298.93	684.49	343.71	1079.99	34.85	780.98	440.20	1176.48	131.34

	X	VANO 17 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 17	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-298.93	686.36	358.13	1082.22	48.99	773.93	445.71	1169.79	136.56
VANO 17	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-297.64	619.41	410.63	977.31	131.14	706.86	498.08	1064.76	218.59
VANO 17	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-296.36	668.29	516.01	1119.67	246.68	658.15	536.12	982.43	282.88
VANO 17	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-295.07	602.47	555.51	1016.26	308.61	610.76	573.13	908.04	340.98
VANO 17	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-293.79	539.94	593.04	924.14	363.80	565.74	608.29	841.75	392.74
VANO 17	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-293.79	539.94	593.04	924.14	363.80	565.74	608.29	841.75	392.74
VANO 17	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-292.50	480.91	628.49	843.52	412.13	523.23	641.49	783.73	438.05
VANO 17	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-291.22	422.32	663.67	774.50	453.54	481.04	674.44	734.05	476.85
VANO 17	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-289.93	366.92	696.96	716.97	488.10	441.13	705.60	692.61	509.21
VANO 17	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-288.64	315.22	728.03	670.80	515.87	403.89	734.69	659.35	535.19
VANO 17	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-288.64	315.22	728.03	670.80	515.87	403.89	734.69	659.35	535.19
VANO 17	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-287.36	264.07	758.77	639.70	534.65	367.04	763.46	636.90	552.72
VANO 17	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-286.07	221.05	784.67	616.08	548.97	336.04	787.68	619.82	566.05
VANO 17	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-284.79	186.88	805.29	599.24	559.25	311.38	806.93	607.63	575.58
VANO 17	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-283.50	161.60	820.60	589.13	565.50	293.12	821.19	600.26	581.33
VANO 17	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-283.50	161.60	820.60	589.13	565.50	293.12	821.19	600.26	581.33
VANO 17	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-282.22	147.11	829.47	587.64	566.62	282.61	829.40	599.09	582.25
VANO 17	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-280.93	141.54	833.01	592.86	563.73	278.51	832.60	602.74	579.40
VANO 17	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-279.64	144.90	831.24	604.81	556.83	280.82	830.80	611.22	572.77
VANO 17	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-278.36	157.18	824.14	623.48	545.92	289.54	823.99	624.53	562.38
VANO 17	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-278.36	157.18	824.14	623.48	545.92	289.54	823.99	624.53	562.38
VANO 17	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-277.07	178.39	811.71	648.86	531.00	304.67	812.17	642.67	548.22
VANO 17	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-275.79	208.53	793.95	680.97	512.07	326.22	795.34	665.63	530.28
VANO 17	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-274.50	247.59	770.87	719.79	489.13	354.19	773.50	693.42	508.58
VANO 17	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-273.22	285.24	748.64	755.04	468.33	381.13	752.46	718.64	488.89
VANO 17	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-273.22	285.24	748.64	755.04	468.33	381.13	752.46	718.64	488.89
VANO 17	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-271.93	249.54	770.16	721.70	488.44	355.38	772.57	694.59	507.67
VANO 17	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-270.64	212.37	792.56	684.78	510.70	328.58	793.50	667.96	528.46
VANO 17	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-269.36	184.13	809.64	654.58	528.94	308.19	809.43	646.16	545.48
VANO 17	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-268.07	164.82	821.39	631.10	543.18	294.21	820.34	629.19	558.74
VANO 17	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-268.07	164.82	821.39	631.10	543.18	294.21	820.34	629.19	558.74
VANO 17	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-266.79	154.44	827.81	614.34	553.40	286.65	826.24	617.05	568.22
VANO 17	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-265.50	152.98	828.91	604.30	559.62	285.50	827.14	609.74	573.93
VANO 17	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-264.22	160.45	824.68	600.98	561.83	290.76	823.03	607.25	575.87
VANO 17	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-262.93	176.83	815.13	604.39	560.03	302.43	813.92	609.59	574.04
VANO 17	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-262.93	176.83	815.13	604.39	560.03	302.43	813.92	609.59	574.04
VANO 17	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-261.64	202.12	800.27	614.51	554.21	320.50	799.81	616.77	568.44
VANO 17	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-260.36	236.32	780.09	631.37	544.38	344.96	780.71	628.78	559.06
VANO 17	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-259.07	279.35	754.64	655.01	530.50	375.78	756.64	645.66	545.88
VANO 17	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-257.79	330.56	724.31	686.09	512.18	412.46	727.99	667.88	528.52
VANO 17	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-257.79	330.56	724.31	686.09	512.18	412.46	727.99	667.88	528.52
VANO 17	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-256.50	382.32	693.66	732.22	484.88	449.55	699.03	700.92	502.72
VANO 17	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-255.22	437.81	660.78	789.72	450.80	489.31	667.98	742.13	470.54
VANO 17	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-253.93	496.48	626.00	858.71	409.87	531.35	635.14	791.59	431.92
VANO 17	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-252.64	555.16	591.21	939.29	362.01	573.42	602.30	849.38	386.78
VANO 17	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-252.64	555.16	591.21	939.29	362.01	573.42	602.30	849.38	386.78
VANO 17	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-251.36	617.73	554.10	1031.38	307.29	618.26	567.27	915.44	335.20
VANO 17	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-250.07	683.75	514.94	1134.78	245.83	665.59	530.31	989.61	277.27
VANO 17	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-248.79	631.40	409.69	989.00	130.43	714.12	492.42	1071.72	213.15
VANO 17	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-112.25	-247.50	698.38	357.60	1093.88	48.74	780.98	440.20	1176.48	131.34

	X	VANO 18 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 18	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-247.50	700.24	372.02	1096.10	62.87	773.93	445.71	1169.79	136.56
VANO 18	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-246.22	633.30	424.52	991.19	145.03	706.86	498.08	1064.76	218.59
VANO 18	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-244.93	684.13	531.85	1135.51	262.52	658.15	536.12	982.43	282.88
VANO 18	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-243.64	618.31	571.34	1032.10	324.45	610.76	573.13	908.04	340.98
VANO 18	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-242.36	555.77	608.88	939.98	379.64	565.74	608.29	841.75	392.74
VANO 18	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-242.36	555.77	608.88	939.98	379.64	565.74	608.29	841.75	392.74
VANO 18	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-241.07	496.74	644.33	859.36	427.97	523.23	641.49	783.73	438.05
VANO 18	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-239.79	438.16	679.51	790.34	469.38	481.04	674.44	734.05	476.85
VANO 18	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-238.50	382.75	712.80	732.80	503.93	441.13	705.60	692.61	509.21
VANO 18	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-237.22	331.06	743.87	686.64	531.71	403.89	734.69	659.35	535.19
VANO 18	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-237.22	331.06	743.87	686.64	531.71	403.89	734.69	659.35	535.19
VANO 18	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-235.93	279.91	774.61	655.54	550.49	367.04	763.46	636.90	552.72
VANO 18	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-234.64	236.89	800.51	631.91	564.81	336.04	787.68	619.82	566.05
VANO 18	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-233.36	202.71	821.12	615.07	575.09	311.38	806.93	607.63	575.58
VANO 18	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-232.07	177.43	836.44	604.97	581.34	293.12	821.19	600.26	581.33
VANO 18	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-232.07	177.43	836.44	604.97	581.34	293.12	821.19	600.26	581.33
VANO 18	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-230.79	162.95	845.30	603.47	582.46	282.61	829.40	599.09	582.25
VANO 18	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-229.50	157.38	848.85	608.70	579.57	278.51	832.60	602.74	579.40
VANO 18	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-228.22	160.74	847.08	620.65	572.67	280.82	830.80	611.22	572.77
VANO 18	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-226.93	173.02	839.98	639.31	561.76	289.54	823.99	624.53	562.38
VANO 18	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-226.93	173.02	839.98	639.31	561.76	289.54	823.99	624.53	562.38
VANO 18	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-225.64	194.23	827.55	664.70	546.84	304.67	812.17	642.67	548.22
VANO 18	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-224.36	224.36	809.79	696.81	527.91	326.22	795.34	665.63	530.28
VANO 18	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-223.07	263.43	786.71	735.63	504.97	354.19	773.50	693.42	508.58
VANO 18	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-221.79	301.07	764.48	770.87	484.17	381.13	752.46	718.64	488.89
VANO 18	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-221.79	301.07	764.48	770.87	484.17	381.13	752.46	718.64	488.89
VANO 18	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-220.50	265.38	786.00	737.54	504.28	355.38	772.57	694.59	507.67
VANO 18	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-219.22	228.21	808.40	700.62	526.54	328.58	793.50	667.96	528.46
VANO 18	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-217.93	199.97	825.48	670.42	544.78	308.19	809.43	646.16	545.48
VANO 18	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-216.64	180.66	837.23	646.94	559.02	294.21	820.34	629.19	558.74
VANO 18	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-216.64	180.66	837.23	646.94	559.02	294.21	820.34	629.19	558.74
VANO 18	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-215.36	170.28	843.65	630.18	569.24	286.65	826.24	617.05	568.22
VANO 18	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-214.07	168.82	844.75	620.14	575.46	285.50	827.14	609.74	573.93
VANO 18	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-212.79	176.29	840.52	616.82	577.67	290.76	823.03	607.25	575.87
VANO 18	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-211.50	192.67	830.97	620.22	575.86	302.43	813.92	609.59	574.04
VANO 18	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-211.50	192.67	830.97	620.22	575.86	302.43	813.92	609.59	574.04
VANO 18	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-210.22	217.96	816.10	630.35	570.05	320.50	799.81	616.77	568.44
VANO 18	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-208.93	252.15	795.93	647.21	560.22	344.96	780.71	628.78	559.06
VANO 18	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-207.64	295.19	770.48	670.85	546.34	375.78	756.64	645.66	545.88
VANO 18	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-206.36	346.40	740.15	701.93	528.02	412.46	727.99	667.88	528.52
VANO 18	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-206.36	346.40	740.15	701.93	528.02	412.46	727.99	667.88	528.52
VANO 18	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-205.07	398.16	709.49	748.06	500.72	449.55	699.03	700.92	502.72
VANO 18	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-203.79	453.64	676.61	805.56	466.64	489.31	667.98	742.13	470.54
VANO 18	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-202.50	512.31	641.84	874.55	425.71	531.35	635.14	791.59	431.92
VANO 18	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-201.22	571.00	607.04	955.13	377.85	573.42	602.30	849.38	386.78
VANO 18	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-201.22	571.00	607.04	955.13	377.85	573.42	602.30	849.38	386.78
VANO 18	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-199.93	633.57	569.94	1047.22	323.13	618.26	567.27	915.44	335.20
VANO 18	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-198.64	699.59	530.77	1150.62	261.67	665.59	530.31	989.61	277.27
VANO 18	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-197.36	645.28	423.58	1002.88	144.31	714.12	492.42	1071.72	213.15
VANO 18	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-112.25	-196.07	712.27	371.49	1107.77	62.63	780.98	440.20	1176.48	131.34

	X	VANO 19 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 19	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-196.07	714.16	385.93	1110.02	76.79	773.93	445.71	1169.79	136.56
VANO 19	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-194.79	647.21	438.44	1005.11	158.94	706.86	498.08	1064.76	218.59
VANO 19	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-193.50	700.00	547.72	1151.38	278.39	658.15	536.12	982.43	282.88
VANO 19	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-192.22	634.18	587.21	1047.97	340.32	610.76	573.13	908.04	340.98
VANO 19	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-190.93	571.64	624.75	955.85	395.51	565.74	608.29	841.75	392.74
VANO 19	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-190.93	571.64	624.75	955.85	395.51	565.74	608.29	841.75	392.74
VANO 19	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-189.64	512.61	660.20	875.23	443.84	523.23	641.49	783.73	438.05
VANO 19	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-188.36	454.03	695.38	806.21	485.25	481.04	674.44	734.05	476.85
VANO 19	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-187.07	398.62	728.67	748.67	519.81	441.13	705.60	692.61	509.21
VANO 19	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-185.79	346.93	759.74	702.51	547.58	403.89	734.69	659.35	535.19
VANO 19	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-185.79	346.93	759.74	702.51	547.58	403.89	734.69	659.35	535.19
VANO 19	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-184.50	295.78	790.48	671.41	566.36	367.04	763.46	636.90	552.72
VANO 19	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-183.22	252.76	816.38	647.78	580.68	336.04	787.68	619.82	566.05
VANO 19	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-181.93	218.58	836.99	630.95	590.96	311.38	806.93	607.63	575.58
VANO 19	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-180.64	193.30	852.31	620.84	597.21	293.12	821.19	600.26	581.33
VANO 19	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-180.64	193.30	852.31	620.84	597.21	293.12	821.19	600.26	581.33
VANO 19	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-179.36	178.82	861.17	619.34	598.33	282.61	829.40	599.09	582.25
VANO 19	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-178.07	173.25	864.72	624.57	595.44	278.51	832.60	602.74	579.40
VANO 19	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-176.79	176.61	862.95	636.52	588.54	280.82	830.80	611.22	572.77
VANO 19	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-175.50	188.89	855.85	655.18	577.63	289.54	823.99	624.53	562.38
VANO 19	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-175.50	188.89	855.85	655.18	577.63	289.54	823.99	624.53	562.38
VANO 19	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-174.22	210.10	843.42	680.57	562.71	304.67	812.17	642.67	548.22
VANO 19	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-172.93	240.23	825.66	712.68	543.78	326.22	795.34	665.63	530.28
VANO 19	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-171.64	279.30	802.58	751.50	520.84	354.19	773.50	693.42	508.58
VANO 19	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-170.36	316.94	780.35	786.74	500.04	381.13	752.46	718.64	488.89
VANO 19	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-170.36	316.94	780.35	786.74	500.04	381.13	752.46	718.64	488.89
VANO 19	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-169.07	281.25	801.87	753.41	520.15	355.38	772.57	694.59	507.67
VANO 19	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-167.79	244.08	824.27	716.49	542.41	328.58	793.50	667.96	528.46
VANO 19	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-166.50	215.84	841.35	686.29	560.65	308.19	809.43	646.16	545.48
VANO 19	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-165.22	196.53	853.10	662.81	574.89	294.21	820.34	629.19	558.74
VANO 19	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-165.22	196.53	853.10	662.81	574.89	294.21	820.34	629.19	558.74
VANO 19	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-163.93	186.15	859.52	646.05	585.11	286.65	826.24	617.05	568.22
VANO 19	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-162.64	184.69	860.62	636.01	591.33	285.50	827.14	609.74	573.93
VANO 19	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-161.36	192.16	856.39	632.69	593.54	290.76	823.03	607.25	575.87
VANO 19	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-160.07	208.54	846.84	636.10	591.73	302.43	813.92	609.59	574.04
VANO 19	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-160.07	208.54	846.84	636.10	591.73	302.43	813.92	609.59	574.04
VANO 19	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-158.79	233.83	831.97	646.22	585.92	320.50	799.81	616.77	568.44
VANO 19	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-157.50	268.02	811.80	663.08	576.09	344.96	780.71	628.78	559.06
VANO 19	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-156.21	311.06	786.35	686.72	562.21	375.78	756.64	645.66	545.88
VANO 19	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-154.93	362.27	756.02	717.80	543.89	412.46	727.99	667.88	528.52
VANO 19	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-154.93	362.27	756.02	717.80	543.89	412.46	727.99	667.88	528.52
VANO 19	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-153.64	414.03	725.37	763.93	516.59	449.55	699.03	700.92	502.72
VANO 19	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-152.36	469.52	692.48	821.43	482.51	489.31	667.98	742.13	470.54
VANO 19	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-151.07	528.18	657.71	890.42	441.58	531.35	635.14	791.59	431.92
VANO 19	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-149.79	586.87	622.92	971.00	393.72	573.42	602.30	849.38	386.78
VANO 19	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-149.79	586.87	622.92	971.00	393.72	573.42	602.30	849.38	386.78
VANO 19	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-148.50	649.44	585.81	1063.09	339.00	618.26	567.27	915.44	335.20
VANO 19	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-147.21	715.46	546.64	1166.49	277.54	665.59	530.31	989.61	277.27
VANO 19	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-145.93	659.20	437.49	1016.80	158.23	714.12	492.42	1071.72	213.15
VANO 19	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-112.25	-144.64	726.19	385.40	1121.68	76.54	780.98	440.20	1176.48	131.34

	X	VANO 20 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 20	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-144.64	728.03	399.81	1123.89	90.66	773.93	445.71	1169.79	136.56
VANO 20	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-143.36	661.09	452.31	1018.98	172.81	706.86	498.08	1064.76	218.59
VANO 20	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-142.07	715.82	563.54	1167.21	294.22	658.15	536.12	982.43	282.88
VANO 20	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-140.79	650.00	603.04	1063.79	356.15	610.76	573.13	908.04	340.98
VANO 20	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-139.50	587.47	640.58	971.67	411.34	565.74	608.29	841.75	392.74
VANO 20	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-139.50	587.47	640.58	971.67	411.34	565.74	608.29	841.75	392.74
VANO 20	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-138.21	528.44	676.02	891.06	459.67	523.23	641.49	783.73	438.05
VANO 20	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-136.93	469.85	711.21	822.03	501.07	481.04	674.44	734.05	476.85
VANO 20	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-135.64	414.45	744.49	764.50	535.63	441.13	705.60	692.61	509.21
VANO 20	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-134.36	362.76	775.56	718.34	563.40	403.89	734.69	659.35	535.19
VANO 20	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-134.36	362.76	775.56	718.34	563.40	403.89	734.69	659.35	535.19
VANO 20	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-133.07	311.60	806.31	687.23	582.19	367.04	763.46	636.90	552.72
VANO 20	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-131.79	268.59	832.20	663.61	596.51	336.04	787.68	619.82	566.05
VANO 20	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-130.50	234.41	852.82	646.77	606.78	311.38	806.93	607.63	575.58
VANO 20	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-129.21	209.13	868.13	636.66	613.04	293.12	821.19	600.26	581.33
VANO 20	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-129.21	209.13	868.13	636.66	613.04	293.12	821.19	600.26	581.33
VANO 20	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-127.93	194.64	877.00	635.17	614.16	282.61	829.40	599.09	582.25
VANO 20	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-126.64	189.08	880.55	640.40	611.26	278.51	832.60	602.74	579.40
VANO 20	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-125.36	192.43	878.77	652.34	604.36	280.82	830.80	611.22	572.77
VANO 20	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-124.07	204.71	871.67	671.01	593.45	289.54	823.99	624.53	562.38
VANO 20	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-124.07	204.71	871.67	671.01	593.45	289.54	823.99	624.53	562.38
VANO 20	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-122.79	225.92	859.24	696.40	578.53	304.67	812.17	642.67	548.22
VANO 20	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-121.50	256.06	841.49	728.50	559.60	326.22	795.34	665.63	530.28
VANO 20	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-120.21	295.13	818.40	767.33	536.66	354.19	773.50	693.42	508.58
VANO 20	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-118.93	332.77	796.17	802.57	515.86	381.13	752.46	718.64	488.89
VANO 20	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-118.93	332.77	796.17	802.57	515.86	381.13	752.46	718.64	488.89
VANO 20	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-117.64	297.08	817.69	769.23	535.98	355.38	772.57	694.59	507.67
VANO 20	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-116.36	259.91	840.10	732.32	558.23	328.58	793.50	667.96	528.46
VANO 20	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-115.07	231.67	857.17	702.12	576.48	308.19	809.43	646.16	545.48
VANO 20	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-113.79	212.36	868.92	678.64	590.71	294.21	820.34	629.19	558.74
VANO 20	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-113.79	212.36	868.92	678.64	590.71	294.21	820.34	629.19	558.74
VANO 20	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-112.50	201.97	875.34	661.88	600.94	286.65	826.24	617.05	568.22
VANO 20	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-111.21	200.52	876.44	651.84	607.16	285.50	827.14	609.74	573.93
VANO 20	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-109.93	207.98	872.21	648.52	609.36	290.76	823.03	607.25	575.87
VANO 20	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-108.64	224.36	862.66	651.92	607.56	302.43	813.92	609.59	574.04
VANO 20	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-108.64	224.36	862.66	651.92	607.56	302.43	813.92	609.59	574.04
VANO 20	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-107.36	249.66	847.80	662.05	601.74	320.50	799.81	616.77	568.44
VANO 20	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-106.07	283.85	827.63	678.91	591.91	344.96	780.71	628.78	559.06
VANO 20	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-104.79	326.88	802.17	702.54	578.03	375.78	756.64	645.66	545.88
VANO 20	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-103.50	378.09	771.85	733.63	559.71	412.46	727.99	667.88	528.52
VANO 20	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-103.50	378.09	771.85	733.63	559.71	412.46	727.99	667.88	528.52
VANO 20	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-102.21	429.85	741.19	779.76	532.42	449.55	699.03	700.92	502.72
VANO 20	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-100.93	485.34	708.31	837.26	498.33	489.31	667.98	742.13	470.54
VANO 20	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-99.64	544.01	673.53	906.24	457.40	531.35	635.14	791.59	431.92
VANO 20	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-98.36	602.70	638.74	986.83	409.55	573.42	602.30	849.38	386.78
VANO 20	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-98.36	602.70	638.74	986.83	409.55	573.42	602.30	849.38	386.78
VANO 20	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-97.07	665.27	601.63	1078.92	354.83	618.26	567.27	915.44	335.20
VANO 20	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-95.79	731.29	562.47	1182.31	293.36	665.59	530.31	989.61	277.27
VANO 20	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-94.50	673.07	451.37	1030.67	172.10	714.12	492.42	1071.72	213.15
VANO 20	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-112.25	-93.21	740.06	399.28	1135.56	90.42	780.98	440.20	1176.48	131.34

	X	VANO 21 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 21	0.00	-6953.44	554.89	-3080.70	352.99	-222.14	190.07	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-93.21	741.95	413.73	1137.82	104.59	773.93	445.71	1169.79	136.56
VANO 21	1.20	-5930.49	523.54	-2711.30	338.63	-215.16	190.07	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-91.93	675.01	466.23	1032.90	186.74	706.86	498.08	1064.76	218.59
VANO 21	2.40	-4959.55	505.55	-2376.95	324.27	-208.19	190.07	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-90.64	731.70	579.42	1183.09	310.10	658.15	536.12	982.43	282.88
VANO 21	3.60	-4040.62	524.86	-2078.70	309.90	-201.22	190.07	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-89.36	665.88	618.92	1079.67	372.03	610.76	573.13	908.04	340.98
VANO 21	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-88.07	603.35	656.46	987.55	427.22	565.74	608.29	841.75	392.74
VANO 21	4.80	-3173.69	569.94	-1818.67	295.54	-194.25	190.07	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-88.07	603.35	656.46	987.55	427.22	565.74	608.29	841.75	392.74
VANO 21	6.00	-2358.77	639.04	-1598.49	281.18	-187.28	190.07	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-86.79	544.32	691.90	906.93	475.55	523.23	641.49	783.73	438.05
VANO 21	7.20	-1595.85	756.60	-1418.92	266.82	-180.30	190.08	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-85.50	485.73	727.09	837.91	516.95	481.04	674.44	734.05	476.85
VANO 21	8.40	-884.94	900.76	-1279.08	252.46	-173.33	190.08	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-84.21	430.33	760.37	780.38	551.51	441.13	705.60	692.61	509.21
VANO 21	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-82.93	378.63	791.44	734.22	579.28	403.89	734.69	659.35	535.19
VANO 21	9.60	-226.03	1067.27	-1178.06	238.10	-166.36	190.08	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-82.93	378.63	791.44	734.22	579.28	403.89	734.69	659.35	535.19
VANO 21	10.80	380.87	1281.48	-1145.30	223.74	-159.39	190.08	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-81.64	327.48	822.19	703.11	598.06	367.04	763.46	636.90	552.72
VANO 21	12.00	935.76	1482.72	-1120.28	209.37	-152.42	190.08	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-80.36	284.47	848.08	679.49	612.39	336.04	787.68	619.82	566.05
VANO 21	13.20	1438.65	1665.37	-1097.44	195.01	-145.44	190.08	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-79.07	250.29	868.70	662.65	622.66	311.38	806.93	607.63	575.58
VANO 21	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-77.79	225.01	884.01	652.54	628.92	293.12	821.19	600.26	581.33
VANO 21	14.40	1889.53	1828.97	-1076.37	180.65	-138.47	190.08	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-77.79	225.01	884.01	652.54	628.92	293.12	821.19	600.26	581.33
VANO 21	15.60	2273.35	1973.41	-1057.01	166.29	-131.50	190.08	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-76.50	210.52	892.88	651.05	630.03	282.61	829.40	599.09	582.25
VANO 21	16.80	2605.16	2098.63	-1039.31	151.93	-124.53	190.08	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-75.21	204.96	896.43	656.27	627.14	278.51	832.60	602.74	579.40
VANO 21	18.00	2884.97	2204.61	-1023.29	137.57	-117.56	190.08	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-73.93	208.31	894.65	668.22	620.24	280.82	830.80	611.22	572.77
VANO 21	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-72.64	220.59	887.55	686.89	609.33	289.54	823.99	624.53	562.38
VANO 21	19.20	3112.77	2291.30	-1008.93	123.21	-110.58	190.08	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-72.64	220.59	887.55	686.89	609.33	289.54	823.99	624.53	562.38
VANO 21	20.40	3288.57	2358.70	-996.23	108.84	-103.61	190.08	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-71.36	241.80	875.12	712.27	594.41	304.67	812.17	642.67	548.22
VANO 21	21.60	3412.35	2406.79	-985.20	94.48	-96.64	190.08	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-70.07	271.94	857.37	744.38	575.48	326.22	795.34	665.63	530.28
VANO 21	22.80	3484.14	2435.56	-975.82	80.12	-89.67	190.08	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-68.79	311.01	834.28	783.21	552.54	354.19	773.50	693.42	508.58
VANO 21	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-67.50	348.65	812.05	818.45	531.74	381.13	752.46	718.64	488.89
VANO 21	24.00	3503.92	2445.01	-968.54	65.76	-82.70	190.08	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-67.50	348.65	812.05	818.45	531.74	381.13	752.46	718.64	488.89
VANO 21	25.20	3471.69	2435.14	-976.81	79.69	-89.19	190.08	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-66.21	312.96	833.57	785.11	551.86	355.38	772.57	694.59	507.67
VANO 21	26.40	3387.46	2405.94	-986.73	94.04	-96.13	190.08	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-64.93	275.79	855.98	748.19	574.11	328.58	793.50	667.96	528.46
VANO 21	27.60	3251.22	2357.43	-998.32	108.38	-103.07	190.08	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-63.64	247.55	873.05	718.00	592.36	308.19	809.43	646.16	545.48
VANO 21	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-62.36	228.24	884.80	694.52	606.59	294.21	820.34	629.19	558.74
VANO 21	28.80	3062.98	2289.60	-1011.56	122.73	-110.01	190.08	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-62.36	228.24	884.80	694.52	606.59	294.21	820.34	629.19	558.74
VANO 21	30.00	2822.73	2202.48	-1026.47	137.07	-116.95	190.08	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-61.07	217.85	891.22	677.76	616.82	286.65	826.24	617.05	568.22
VANO 21	31.20	2530.47	2096.08	-1043.04	151.42	-123.89	190.08	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-59.79	216.39	892.32	667.72	623.03	285.50	827.14	609.74	573.93
VANO 21	32.40	2186.21	1970.43	-1061.27	165.77	-130.83	190.08	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-58.50	223.86	888.09	664.40	625.24	290.76	823.03	607.25	575.87
VANO 21	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-57.21	240.24	878.54	667.80	623.44	302.43	813.92	609.59	574.04
VANO 21	33.60	1789.94	1825.56	-1081.19	180.11	-137.77	190.08	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-57.21	240.24	878.54	667.80	623.44	302.43	813.92	609.59	574.04
VANO 21	34.80	1341.67	1661.53	-1102.80	194.46	-144.71	190.08	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-55.93	265.54	863.68	677.93	617.62	320.50	799.81	616.77	568.44
VANO 21	36.00	841.39	1478.44	-1126.18	208.81	-151.64	190.08	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-54.64	299.73	843.50	694.78	607.79	344.96	780.71	628.78	559.06
VANO 21	37.20	289.11	1276.72	-1151.70	223.15	-158.58	190.08	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-53.36	342.76	818.05	718.42	593.91	375.78	756.64	645.66	545.88
VANO 21	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-52.07	393.97	787.73	749.50	575.59	412.46	727.99	667.88	528.52
VANO 21	38.40	-315.18	1061.73	-1184.64	237.50	-165.52	190.08	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-52.07	393.97	787.73	749.50	575.59	412.46	727.99	667.88	528.52
VANO 21	39.60	-971.47	894.35	-1285.80	251.85	-172.46	190.08	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-50.79	445.73	757.07	795.64	548.29	449.55	699.03	700.92	502.72
VANO 21	40.80	-1679.77	749.20	-1425.73	266.19	-179.40	190.08	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-49.50	501.22	724.19	853.14	514.21	489.31	667.98	742.13	470.54
VANO 21	42.00	-2440.08	630.65	-1605.39	280.54	-186.34	190.09	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-48.21	559.89	689.41	922.12	473.28	531.35	635.14	791.59	431.92
VANO 21	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-46.93	618.58	654.62	1002.71	425.42	573.42	602.30	849.38	386.78
VANO 21	43.20	-3252.39	563.95	-1825.68	294.89	-193.28	190.09	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-46.93	618.58	654.62	1002.71	425.42	573.42	602.30	849.38	386.78
VANO 21	44.40	-4116.70	518.26	-2085.86	309.23	-200.22	190.09	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-45.64	681.15	617.51	1094.80	370.70	618.26	567.27	915.44	335.20
VANO 21	45.60	-5033.03	497.01	-2384.30	323.58	-207.16	190.09	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-44.36	747.17	578.35	1198.19	309.24	665.59	530.31	989.61	277.27
VANO 21	46.80	-6001.35	514.43	-2718.90	337.93	-214.10	190.09	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-43.07	686.99	465.29	1044.60	186.02	714.12	492.42	1071.72	213.15
VANO 21	48.00	-7021.69	545.48	-3087.41	352.27	-221.47	190.09	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-112.25	-41.79	753.98	413.20	1149.48	104.34	780.98	440.20	1176.48	131.34

	X	VANO 22 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)	MOMENTOS POSITIVOS INF(t/m2)	MOMENTOS POSITIVOS SUP(t/m2)	MOMENTOS NEGATIVOS INF(t/m2)	MOMENTOS NEGATIVOS SUP(t/m2)
VANO 22	0.00	-6859.13	356.47	-2853.74	363.44	-14.36	234.87	0.00	2955.05	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-41.79	753.54	281.07	1097.42	12.52	771.55	299.07	1115.42	30.52
VANO 22	0.98	-6015.19	350.92	-2568.65	354.36	-14.00	228.99	0.98	2809.16	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-40.74	692.70	328.76	1009.06	81.71	710.60	346.66	1026.96	99.61
VANO 22	1.95	-5205.59	350.14	-2307.30	345.27	-13.64	223.12	1.95	2545.19	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-39.70	775.21	426.98	1180.82	184.96	662.94	383.89	954.33	156.32
VANO 22	2.93	-4430.32	356.55	-2071.49	336.19	-13.28	217.25	2.93	2281.23	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-38.65	712.37	464.65	1087.35	240.92	617.71	419.20	887.10	208.83
VANO 22	3.90	-3689.38	412.13	-1863.21	327.10	-12.92	211.38	3.90	2017.26	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-37.61	647.68	503.44	1001.62	292.26	571.15	455.57	825.42	256.99
VANO 22	3.90	-3689.38	412.13	-1863.21	327.10	-12.92	211.38	3.90	2017.26	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-37.61	647.68	503.44	1001.62	292.26	571.15	455.57	825.42	256.99
VANO 22	4.88	-2982.77	484.35	-1684.68	318.01	-12.56	205.51	4.88	1753.29	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-36.56	585.20	540.90	923.91	338.80	526.18	490.68	769.52	300.65
VANO 22	5.85	-2310.50	572.25	-1538.39	308.93	-12.21	199.64	5.85	1489.33	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-35.52	525.06	576.97	854.54	380.38	482.89	524.49	719.60	339.64
VANO 22	6.83	-1672.56	716.09	-1427.05	299.84	-11.85	193.76	6.83	1225.36	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-34.47	462.21	614.65	793.84	416.78	437.66	559.81	675.91	373.76
VANO 22	7.80	-1068.95	893.36	-1350.99	290.75	-11.49	187.89	7.80	961.40	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-33.43	399.48	652.26	741.86	447.98	392.51	595.08	638.48	402.98
VANO 22	7.80	-1068.95	893.36	-1350.99	290.75	-11.49	187.89	7.80	961.40	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-33.43	399.48	652.26	741.86	447.98	392.51	595.08	638.48	402.98
VANO 22	8.78	-499.67	1066.15	-1284.45	281.67	-11.13	182.02	8.78	697.43	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-32.38	341.60	686.98	695.37	475.90	350.85	627.61	605.00	429.13
VANO 22	9.75	35.28	1226.77	-1220.10	272.58	-10.77	176.15	9.75	433.47	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-31.34	289.55	718.22	653.46	501.09	313.37	656.88	574.80	452.71
VANO 22	10.73	535.90	1380.83	-1163.57	263.50	-10.41	170.28	10.73	169.50	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-30.29	242.62	746.41	616.82	523.14	279.57	683.28	548.40	473.33
VANO 22	11.70	1002.18	1521.57	-1108.15	254.41	-10.05	164.41	11.70	-94.47	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-29.25	201.65	771.04	584.62	542.54	250.06	706.32	525.18	491.46
VANO 22	11.70	1002.18	1521.57	-1108.15	254.41	-10.05	164.41	11.70	-94.47	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-29.25	201.65	771.04	584.62	542.54	250.06	706.32	525.18	491.46
VANO 22	12.68	1434.13	1648.95	-1053.81	245.32	-9.69	158.53	12.68	-358.43	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-28.21	166.65	792.10	556.85	559.29	224.83	726.02	505.15	507.11
VANO 22	13.65	1831.75	1762.96	-1000.57	236.24	-9.33	152.66	13.65	-622.40	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-27.16	137.63	809.60	533.52	573.39	203.90	742.37	488.31	520.26
VANO 22	14.63	2195.04	1863.58	-948.42	227.15	-8.97	146.79	14.63	-886.36	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-26.12	114.59	823.54	514.62	584.85	187.26	755.36	474.65	530.93
VANO 22	15.60	2524.00	1950.78	-897.37	218.07	-8.62	140.92	15.60	-1150.33	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-25.07	97.52	833.90	500.16	593.66	174.91	765.00	464.18	539.10
VANO 22	15.60	2524.00	1950.78	-897.37	218.07	-8.62	140.92	15.60	-1150.33	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-25.07	97.52	833.90	500.16	593.66	174.91	765.00	464.18	539.10
VANO 22	16.58	2818.62	2024.57	-847.40	208.98	-8.26	135.05	16.58	-1414.29	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-24.03	86.43	840.70	490.14	599.83	166.87	771.29	456.90	544.79
VANO 22	17.55	3078.92	2084.92	-798.53	199.89	-7.90	129.18	17.55	-1678.26	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-22.98	81.32	843.94	484.55	603.35	163.11	774.22	452.80	547.99
VANO 22	18.53	3304.88	2131.82	-750.76	190.81	-7.54	123.30	18.53	-1942.22	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-21.94	82.19	843.60	483.40	604.22	163.66	773.80	451.89	548.70
VANO 22	19.50	3496.51	2165.28	-704.08	181.72	-7.18	117.43	19.50	-2206.19	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-20.89	89.05	839.69	486.68	602.44	168.50	770.01	454.16	546.93
VANO 22	19.50	3496.51	2165.28	-704.08	181.72	-7.18	117.43	19.50	-2206.19	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-20.89	89.05	839.69	486.68	602.44	168.50	770.01	454.16	546.93
VANO 22	20.48	3653.80	2185.26	-660.10	172.64	-6.82	111.56	20.48	-2470.16	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-19.85	101.89	832.21	494.60	597.90	177.64	762.87	459.77	542.55
VANO 22	21.45	3776.77	2191.78	-625.36	163.55	-6.46	105.69	21.45	-2734.12	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-18.80	120.72	821.17	507.97	590.11	191.09	752.38	469.29	535.11
VANO 22	22.43	3865.40	2184.82	-590.61	154.46	-6.10	99.82	22.43	-2956.76	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-17.76	140.36	809.63	520.47	582.83	205.11	741.42	478.19	528.16
VANO 22	23.40	3919.71	2164.38	-555.87	145.38	-5.74	93.95	23.40	-2796.66	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-16.71	118.06	823.12	489.35	601.59	189.01	754.00	455.75	545.69
VANO 22	23.40	3919.71	2164.38	-555.87	145.38	-5.74	93.95	23.40	-2796.66	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-16.71	118.06	823.12	489.35	601.59	189.01	754.00	455.75	545.69
VANO 22	24.38	3939.68	2130.44	-521.13	136.29	-5.38	88.07	24.38	-2539.64	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-15.67	89.61	840.28	450.39	625.02	168.49	770.02	427.67	567.61
VANO 22	25.35	3925.31	2083.01	-486.39	127.21	-5.03	82.20	25.35	-2282.63	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-14.63	67.16	853.86	415.72	645.88	152.28	782.68	402.69	587.12
VANO 22	26.33	3876.62	2022.09	-451.65	118.12	-4.67	76.33	26.33	-2025.61	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-13.58	50.69	863.87	385.36	664.18	140.36	791.99	380.79	604.22
VANO 22	27.30	3793.60	1947.66	-416.90	109.03	-4.31	70.46	27.30	-1768.59	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-12.54	40.21	870.30	359.29	679.92	132.75	797.93	361.98	618.91
VANO 22	27.30	3793.60	1947.66	-416.90	109.03	-4.31	70.46	27.30	-1768.59	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-12.54	40.21	870.30	359.29	679.92	132.75	797.93	361.98	618.91
VANO 22	28.28	3664.00	1859.72	-382.16	99.95	-3.95	64.59	28.28	-1511.58	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-11.49	37.26	872.25	339.06	692.18	130.55	799.65	347.37	630.33
VANO 22	29.25	3500.08	1758.27	-347.42	90.86	-3.59	58.72	29.25	-1254.56	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-10.45	40.29	870.62	323.12	701.87	132.64	798.02	335.83	639.34
VANO 22	30.23	3301.82	1643.31	-312.68	81.77	-3.23	52.84	30.23	-997.54	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-9.40	49.32	865.42	311.49	709.00	139.05	793.02	327.39	645.93
VANO 22	31.20	3069.23	1514.82	-277.94	72.69	-2.87	46.97	31.20	-740.53	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-8.36	64.33	856.65	304.15	713.56	149.75	784.66	322.04	650.11
VANO 22	31.20	3069.23	1514.82	-277.94	72.69	-2.87	46.97	31.20	-740.53	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-8.36	64.33	856.65	304.15	713.56	149.75	784.66	322.04	650.11
VANO 22	32.18	2802.31	1372.82	-243.19	63.60	-2.51	41.10	32.18	-483.51	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-7.31	85.34	844.30	301.11	715.56	164.76	772.93	319.77	651.88
VANO 22	33.15	2501.06	1217.29	-208.45	54.52	-2.15	35.23	33.15	-226.49	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-6.27	112.34	828.37	302.37	714.99	184.08	757.85	320.59	651.24
VANO 22	34.13	2165.48	1048.24	-173.71	45.43	-1.79	29.36	34.13	30.52	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-5.22	145.34	808.87	307.93	711.86	207.69	739.40	324.50	648.19
VANO 22	35.10	1795.56	865.66	-138.97	36.34	-1.44	23.49	35.1	287.54	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-4.18	184.32	785.79	317.78	706.16	235.62	717.60	331.50	642.72
VANO 22	35.10	1795.56	865.66	-138.97	36.34	-1.44	23.49	35.1	287.54	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-4.18	184.32	785.79	317.78	706.16	235.62	717.60	331.50	642.72
VANO 22	36.08	1391.31	669.55	-104.23	27.26	-1.08	17.61	36.075	544.56	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-3.13	229.30	759.14	331.94	697.90	267.85	692.43	341.59	634.84
VANO 22	37.05	952.73	459.90	-69.48	18.17	-0.72	11.74	37.05	801.57	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-2.09	280.27	728.91	350.39	687.07	304.39	663.89	354.76	624.55
VANO 22	38.03	479.82	236.72	-34.74	9.09	-0.36	5.87	38.025	1058.59	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	-1.04	331.17	617.94	356.96	597.79	345.23	632.00	371.02	611.85
VANO 22	39.00	-27.42	0.00	0.00	0.00	0.00	0.00	39	1166.51	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-112.25	0.00	389.83	572.31	389.83	572.31	403.79	586.27	403.79	586.27

2.4. Estudio del E.L.U. de flexión

E.L.U. DE FLEXION

El control del tablero en E.L.U. de flexión se realiza aplicando la combinación poco probable de acciones, considerando las siguientes acciones que solicitan al tablero:

- Carga permanente
- Retracción y Fluencia
- Sobrecarga de uso
- Frenado
- Acciones térmicas (Gradiente, Incremento de temperatura)
- Descenso de apoyos.
- Desbalastado total o parcial.

La comprobación de rotura se realiza en cuatro secciones de cada vano. En un vano de 48 metros equivale a :

- Sección en centro de vano: a 24 metros del eje de pila
- Sección de extremo de la dovela sobre pilas: a 12 metros del eje de pila
- Sección a 6 metros del eje de pila
- Sección sobre pila.

Los esfuerzos de cálculo para el armado de estas secciones distan aproximadamente un canto del tablero respecto a la posición de la sección para tener en cuenta el efecto desfavorable de las bielas a compresión y tracción que conducen las cargas hasta las pilas.

La comprobación de estas secciones queda completa modelizando tres secciones tipo para cada vano que van a generar tres zonas de armado longitudinal por vano.

- Sección de Centro de Vano. VANO-CV-NºCABLES
- Sección del extremo de la dovela sobre pilas. VANO-NO-NºCABLES
- Sección sobre pila. VANO-SP-NºCABLES

La acción del pretensado exterior sobre la sección se realiza considerándolo en el equilibrio seccional de esfuerzos como una acción exterior. La comprobación del pretensado exterior se realiza mediante el procedimiento simplificado, es decir, se supone un incremento de tensión en los cordones de 0 kp/cm^2.

El pretensado de lanzamiento está modelizado al introducir a la sección de cálculo las deformaciones impuestas que este genera. Así pues, tenemos secciones con distintas características dependiendo del vano de cálculo y de los tendones de lanzamiento asociados a este.

Los cálculos se han realizado con el programa FAGUS introduciendo los esfuerzos mayorados y la sección con los materiales minorados. Se han comprobado todas las secciones obteniendo siempre un coeficiente de seguridad adicional superior a la unidad.

Los coeficientes de seguridad adicional obtenidos son los siguientes:

2.4.1. Estudio del E.L.U. durante el lanzamiento

COMPROBACIÓN DEL TABLERO DURANTE EL LANZAMIENTO

Carácteristicas de sección							
	Wsup(cdv) =	13.380	Winf(cdv) =	7.987	Area(cdv) =	9.062	Axil Pret(18 Cab) 15% de Perdidas= 5592.34
	Wsup(sp) =	14.040	Winf(sp) =	10.970	Area(sp) =	10.217	Axil Pret(14 Cab) 15% de Perdidas= 4349.60

ENVOLVENTE DE MOMENTOS MINIMOS Y MAXIMOS EN EL VANO 1 DEL TABLERO

NUDO	DIST A PPIO DE TABLERO	MOMENTOS NEGATIVOS /(ton-m)			Tension sup	Tens inf	MOMENTOS POSITIVOS /(ton-m)			Tension sup	Tens inf	MOM NEGATIVOS MAYORADOS /(ton-m)			MOMENTOS POSITIVOS /(ton-m)		
		Mmax neg	V concom	D(P5-Ppio pesc)	t/m2	t/m2	Mmax pos	V concom	D(P5-Ppio pesc)	t/m2	t/m2	Mmax neg	V concom	D(P5-Ppio pesc)	Mmax pos	V concom	D(P5-Ppio pesc)
20	0.00	-1184.50	191.95	50.85	462.99	655.33	3985.92	-150.64	64.50	831.25	184.01	-1599.07	259.13	68.65	5380.99	-203.36	87.08
21	1.50	-1500.27	225.93	50.85	440.50	684.12	4244.64	-116.65	64.50	849.68	160.43	-2025.36	305.01	68.65	5730.26	-157.48	87.08
22	3.00	-1868.59	259.91	50.85	477.46	851.07	4450.81	-82.67	64.50	949.77	59.86	-2522.59	350.88	68.65	6008.59	-111.60	87.08
23	4.50	-2289.45	293.90	50.85	446.01	903.77	4630.42	-122.90	70.50	963.19	37.38	-3090.76	396.76	68.65	6251.06	-165.91	95.18
24	6.00	-2762.87	327.88	50.85	410.63	963.04	4848.99	-88.92	70.50	979.53	10.01	-3729.88	442.63	68.65	6546.13	-120.04	95.18
25	7.50	-3288.84	361.86	50.85	371.32	1028.89	5015.01	-54.93	70.50	991.93	-10.78	-4439.93	488.51	68.65	6770.26	-74.16	95.18
26	9.00	-3867.35	395.84	50.85	328.08	1101.33	5128.48	-20.95	70.50	1000.41	-24.98	-5220.92	534.39	68.65	6923.45	-28.29	95.18
27	10.50	-4498.41	429.83	50.85	280.92	1180.34	5217.95	-62.16	73.50	1007.10	-36.19	-6072.86	580.26	68.65	7044.24	-83.91	99.23
28	12.00	-5182.03	463.81	50.85	229.82	1265.93	5344.04	-28.17	73.50	1016.52	-51.97	-6995.73	626.14	68.65	7214.45	-38.03	99.23
29	13.50	-5918.19	497.79	50.85	174.80	1358.10	5417.58	6.09	73.50	1022.02	-61.18	-7989.55	672.02	68.65	7313.73	8.22	99.23
30	15.00	-6706.90	531.77	50.85	115.86	1456.85	5438.56	41.12	73.50	1023.59	-63.81	-9054.31	717.89	68.65	7342.06	55.52	99.23
31	16.50	-7548.15	565.76	50.85	52.98	1562.17	5441.81	-1.94	76.50	1023.83	-64.21	-10190.01	763.77	68.65	7346.45	-2.62	103.28
32	18.00	-8441.96	599.74	50.85	-13.82	1674.08	5475.86	33.10	76.50	1026.38	-68.48	-11396.65	809.65	68.65	7392.41	44.68	103.28
33	19.50	-9394.05	641.37	50.85	-84.98	1793.29	5475.86	33.10	76.50	1026.38	-68.48	-12681.97	865.85	68.65	7392.41	44.68	103.28
34	21.00	-10404.43	675.35	50.85	-160.49	1919.79	5451.62	75.78	76.50	1024.57	-65.44	-14045.98	911.73	68.65	7359.69	102.30	103.28
35	22.50	-10404.43	-771.33	50.85	-160.49	1919.79	5369.10	110.81	76.50	1018.40	-55.11	-14045.98	-1041.30	68.65	7248.28	149.59	103.28
36	24.00	-9334.76	-736.30	50.85	-80.54	1785.86	5329.34	64.78	79.50	1015.43	-50.13	-12601.92	-994.01	68.65	7194.61	87.45	107.33
37	25.50	-8456.09	656.53	106.50	-14.87	1675.85	5263.66	99.81	79.50	1010.52	-41.91	-11415.72	886.31	143.78	7105.94	134.75	107.33
38	27.00	-8456.09	-719.25	106.50	-14.87	1675.85	5145.42	134.84	79.50	1001.68	-27.10	-11415.72	-970.98	143.78	6946.32	182.04	107.33
39	28.50	-8638.96	675.77	109.50	-28.54	1698.75	4974.64	169.88	79.50	988.92	-5.72	-11662.59	912.30	147.83	6715.77	229.33	107.33
40	30.00	-8638.96	-720.96	109.50	-28.54	1698.75	4751.31	204.91	79.50	972.23	22.24	-11662.59	-973.29	147.83	6414.27	276.63	107.33
41	31.50	-8459.31	684.07	112.50	-15.12	1676.25	4475.44	239.94	79.50	951.61	56.78	-11420.07	923.49	151.88	6041.84	323.92	107.33
42	33.00	-8459.31	-713.74	112.50	-15.12	1676.25	4147.01	274.97	79.50	927.06	97.90	-11420.07	-963.55	151.88	5598.46	371.22	107.33
43	34.50	-8008.16	683.58	115.50	18.60	1619.77	3908.18	39.24	189.00	909.21	127.80	-10811.01	922.84	155.93	5276.04	52.97	255.15
44	36.00	-8008.16	-700.96	115.50	18.60	1619.77	3870.78	74.27	189.00	906.42	132.48	-10811.01	-946.30	155.93	5225.56	100.27	255.15
45	37.50	-7442.90	677.70	118.50	17.24	1225.83	3780.84	109.30	189.00	816.65	202.70	-10047.92	914.90	159.98	5104.13	147.56	255.15
46	39.00	-7442.90	-689.93	118.50	17.24	1225.83	3638.35	144.34	189.00	806.50	215.69	-10047.92	-931.40	159.98	4911.77	194.86	255.15
MAXIMO EN VANO 1		-10404.43	675.35	50.85	-160.49	1919.79	5475.86	33.10	76.50	1026.38	-68.48	-14045.98	911.73	68.65	7392.41	44.68	103.28

COMPROBACIÓN DE ARMADO EN SOLICITACIÓN PÉSIMA

	LOCALIZA	SEC FAGUS	Nº CABLES	Momento Max	Cort Conco	Coef. Seg. Adic
VANO 1	SOBRE PILAS	LA-V1-SP	18	7392.41	44.68	1.59
VANO 1	ZONA MEDIA	LA-V1-NO	18	7392.41	44.68	1.7
VANO 1	CENT VANO	LA-V1-CV	18	7392.41	44.68	1.85
VANO 1	SOBRE PILAS	LA-V1-SP	18	-14045.98	911.73	1.34
VANO 1	ZONA MEDIA	LA-V1-NO	18	-14045.98	911.73	1.22
VANO 1	CENT VANO	LA-V1-CV	18	-14045.98	911.73	1.24

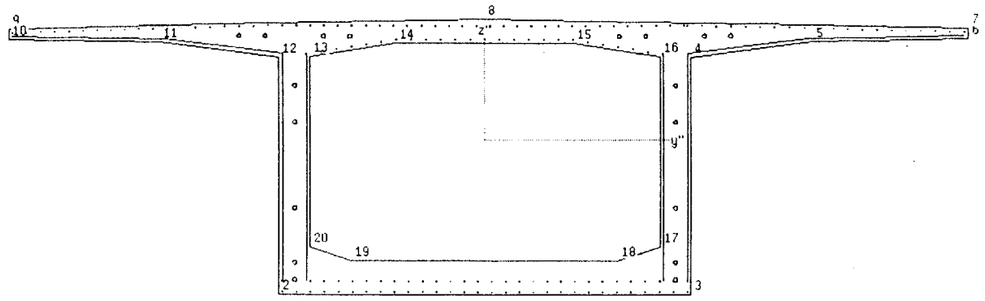
ENVOLVENTE DE MOMENTOS MINIMOS Y MAXIMOS EN EL VANO 2 DEL TABLERO

NUDO	DIST A PPIO DE TABLERO	MOMENTOS NEGATIVOS /(ton-m)			Tension sup	Tens inf	MOMENTOS POSITIVOS /(ton-m)			Tension sup	Tens inf	MOM NEGATIVOS MAYORADOS /(ton-m)			MOMENTOS POSITIVOS /(ton-m)		
		Mmax neg	V concom	D(P5-Ppio pesc)	t/m2	t/m2	Mmax pos	V concom	D(P5-Ppio pesc)	t/m2	t/m2	Mmax neg	V concom	D(P5-Ppio pesc)	Mmax pos	V concom	D(P5-Ppio pesc)
46	39.00	-7442.90	-689.93	118.50	-104.40	1104.20	3638.35	144.34	189.00	684.86	94.06	-10047.92	-931.40	159.98	4911.77	194.86	255.15
47	40.50	-6966.62	697.44	121.50	-40.69	1352.23	3432.90	193.24	189.00	736.55	50.17	-9404.94	941.55	164.03	4634.41	260.88	255.15
48	42.00	-6966.62	-652.50	121.50	-40.69	1352.23	3154.09	242.15	189.00	715.71	85.08	-9404.94	-880.87	164.03	4258.02	326.91	255.15
49	43.50	-6378.73	683.26	73.50	3.25	1278.62	2816.24	-121.38	102.00	690.46	127.38	-8611.28	922.40	99.23	3801.92	-163.86	137.70
50	45.00	-6378.73	-615.18	73.50	3.25	1278.62	3009.56	-87.39	102.00	704.91	103.18	-8611.28	-830.49	99.23	4062.90	-117.98	137.70
51	46.50	-6234.06	674.40	76.50	14.06	1260.51	3150.33	-53.41	102.00	715.43	85.55	-8415.99	910.45	103.28	4252.94	-72.11	137.70
52	48.00	-6234.06	-612.83	76.50	14.06	1260.51	3238.55	-18.68	102.00	722.03	74.50	-8415.99	-827.32	103.28	4372.04	-25.21	137.70
53	49.50	-6148.16	663.12	79.50	20.48	1249.75	3274.22	16.36	102.00	724.69	70.04	-8300.02	895.21	107.33	4420.20	22.08	137.70
54	51.00	-6148.16	-612.21	79.50	20.48	1249.75	3274.22	16.36	102.00	724.69	70.04	-8300.02	-826.48	107.33	4420.20	22.08	137.70
55	52.50	-5534.96	589.73	184.50	66.31	1172.98	3257.34	51.39	102.00	723.43	72.15	-7472.19	796.14	249.08	4397.41	69.37	137.70
56	54.00	-5534.96	-616.28	184.50	66.31	1172.98	3187.92	86.42	102.00	718.24	80.84	-7472.19	-831.98	249.08	4303.69	116.67	137.70
57	55.50	-4636.81	-581.25	184.50	133.43	1060.53	3190.45	-83.89	163.50	718.43	80.53	-6259.69	-784.69	249.08	4307.11	-113.25	220.73
58	57.00	-5351.88	576.50	189.00	79.99	1150.06	3311.93	-105.05	166.50	727.51	65.32	-7225.03	778.28	255.15	4471.10	-141.82	224.78
59	58.50	-5351.88	-614.84	189.00	79.99	1150.06	3447.74	-71.07	166.50	737.66	48.31	-7225.03	-830.03	255.15	4654.45	-95.94	224.78
60	60.00	-4455.90	-579.80	189.00	146.96	1037.88	3567.20	-93.10	169.50	746.59	33.36	-6015.46	-782.73	255.15	4815.73	-125.68	228.83
61	61.50	-3612.47	-544.77	189.00	209.99	932.28	3684.86	-59.12	169.50	755.38	18.63	-4876.83	-735.44	255.15	4974.56	-79.81	228.83
62	63.00	-2821.58	-509.74	189.00	269.10	833.25	3744.22	-17.48	169.50	759.82	11.19	-3809.14	-688.15	255.15	5054.70	-23.60	228.83
63	64.50	-2262.69	375.46	149.85	310.87	763.28	3745.30	16.80	169.50	759.90	11.06	-3054.63	506.86	202.30	5056.16	22.67	228.83
64	66.00	-2908.84	409.44	149.85	262.58	844.18	3745.30	16.80	169.50	759.90	11.06	-3926.93	552.74	202.30	5056.16	22.67	228.83
65	67.50	-3605.96	443.42	149.85	210.48	931.46	3735.30	-6.46	121.50	759.15	12.31	-4868.05	598.62	202.30	5042.65	-8.72	164.03
66	69.00	-4354.06	477.40	149.85	154.57	1025.13	3735.30	-6.46	121.50	759.15	12.31	-5877.99	644.49	202.30	5042.65	-8.72	164.03
67	70.50	-4354.06	-597.68	149.85	154.57	1025.13	3719.23	28.23	121.50	757.95	14.32	-5877.99	-806.87	202.30	5020.95	38.11	164.03
68	72.00	-4361.02	509.32	102.00	154.05	1026.00	3714.73	-138.51	184.50	757.61	14.89	-5887.37	687.58	137.70	5014.88	-186.99	249.08
69	73.50	-4361.02	-573.32	102.00	154.05	1026.00	3903.28	-104.53	184.50	771.71	-8.72	-5887.37	-773.98	137.70	5269.42	-141.11	249.08
70	75.00	-4248.79	-571.60	103.50	162.43	1011.95	4039.28	-70.55	184.50	781.87	-25.75	-5735.87	-771.66	139.73	5453.03	-95.24	249.08
71	76.50	-4645.51	519.50	157.50	132.78	1061.62	4122.73	-36.56	184.50	788.11	-36.20	-6271.43	701.33	212.63	5565.69	-49.36	249.08
72	78.00	-4645.51	-611.17	157.50	132.78	1061.62	4153.64	-2.58	184.50	790.42	-40.07	-6271.43	-825.08	212.63	5607.41	-3.49	249.08
73	79.50	-4628.24	523.66	160.50	134.08	1059.45	4249.87	-63.93	188.85	797.61	-52.12	-6248.12	706.94	216.68	5737.33	-86.31	254.95
74	81.00	-4628.24	-613.51	160.50	134.08	1059.45	4323.15	-29.95	188.85	803.09	-61.29	-6248.12	-828.24	216.68	5836.25	-40.43	254.95
75	82.50	-4683.72	534.60	163.50	129.93	1066.40	4343.88	4.03	188.85	804.64	-63.89	-6323.02	721.71	220.73	5864.24	5.45	254.95
76	84.00	-4683.72	-617.84	163.50	129.93	1066.40	4343.88	4.03	188.85	804.64	-63.89	-6323.02	-834.09	220.73	5864.24	5.45	254.95
77	85.50	-4773.46	544.69	166.50	85.73	860.86	4352.14	-137.02	50.85	735.70	28.99	-6444.17	735.33	224.78	5875.39	-184.98	68.65
78	87.00	-4773.46	-624.15	166.50	85.73	860.86	4528.41	-89.16	50.85	748.26	12.92	-6444.17	-842.60	224.78	6113.35	-120.37	68.65
MAXIMO EN VANO 2		-7442.90	-689.93	118.50	14.06	1260.51	4528.41	-89.16	50.85	804.64	-63.89	-10047.92	-931.40	159.98	6113.35	-120.37	68.65

COMPROBACIÓN DE ARMADO EN SOLICITACIÓN PÉSIMA

	LOCALIZA	SEC FAGUS	Nº CABLES	Momento Max	Cort Conco	Coef. Seg. Adic
VANO 2	SOBRE PILAS	LA-V2-SP	14	6113.35	-120.37	1.53
VANO 2	ZONA MEDIA	LA-V2-NO	14	6113.35	-120.37	1.67
VANO 2	CENT VANO	LA-V2-CV	14	6113.35	-120.37	1.84

Mstb. 1 : 90.0



SecciÂn :"LA-V1-SP" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440

Puntos aligeramiento:

13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	1.207
dch.	Iz	7.000	12.458	-1.207
abajo	Iy	-2.243	-11.121	1.376
arriba	Iy	1.757	14.193	-1.078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00		
8	A1900	(0)	28.50	277.50	250.00		
9	A1900	(0)	28.50	-277.50	303.00		
10	A1900	(0)	28.50	277.50	303.00		
11	A1900	(0)	28.50	-358.00	375.00		
12	A1900	(0)	28.50	358.00	375.00		
13	A1900	(0)	28.50	-320.00	375.00		
14	A1900	(0)	28.50	320.00	375.00		
15	A1900	(0)	28.50	-235.00	375.00		
16	A1900	(0)	28.50	235.00	375.00		
17	A1900	(0)	28.50	-197.00	375.00		
18	A1900	(0)	28.50	197.00	375.00		
19	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
20	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
21	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00
22	AEH500	(2)	22.62	695.00	381.00	295.00	390.00
23	AEH500	(2)	60.32	-295.00	390.00	290.00	390.00
24	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
25	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
26	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
27	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
28	AEH500	(2)	14.07	-260.00	349.00	-130.00	370.00
29	AEH500	(2)	14.07	130.00	370.00	260.00	349.00
30	AEH500	(2)	26.14	-130.00	370.00	130.00	370.00
31	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
32	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
33	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
34	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 853.70 CuantÀa de armadura: 0.827 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	2066.660
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)

fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "LA-V1-SP"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		911.730		-14046.0	

Coeficiente de seguridad 1.347

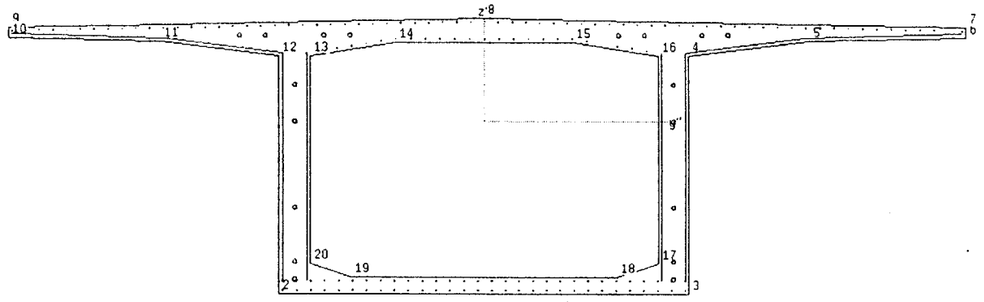
C lculo Resistencia Ultima: Viga "LA-V1-SP"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		44.680		7392.000	

Coeficiente de seguridad 1.591

Mstb. 1 : 90.0



SecciÂn :"LA-V1-NO" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00		
8	A1900	(0)	28.50	277.50	250.00		
9	A1900	(0)	28.50	-277.50	303.00		
10	A1900	(0)	28.50	277.50	303.00		
11	A1900	(0)	28.50	-358.00	375.00		
12	A1900	(0)	28.50	358.00	375.00		
13	A1900	(0)	28.50	-320.00	375.00		
14	A1900	(0)	28.50	320.00	375.00		
15	A1900	(0)	28.50	-235.00	375.00		
16	A1900	(0)	28.50	235.00	375.00		
17	A1900	(0)	28.50	-197.00	375.00		
18	A1900	(0)	28.50	197.00	375.00		
19	AEH500	(2)	60.32	-295.00	5.00	295.00	5.00
20	AEH500	(2)	60.32	-295.00	20.00	295.00	20.00
21	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
22	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
23	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
24	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
25	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
26	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
27	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
28	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
29	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
30	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
31	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
32	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
33	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 856.34 CuantÀa de armadura: 0.947 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	2666.660
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn

fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "LA-V1-NO"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		911.730		-14046.0	

Coeficiente de seguridad 1.220

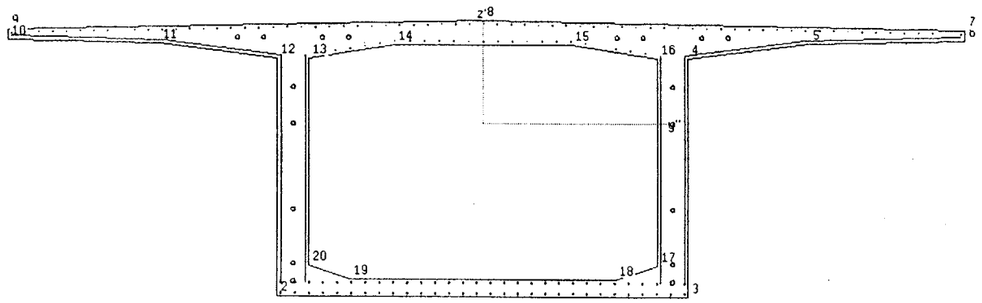
C lculo Resistencia Ultima: Viga "LA-V1-NO"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		44.680		7392.410	

Coeficiente de seguridad 1.703

Mstb. 1 : 90.0



SecciÂn :"LA-V1-CV" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440

Puntos aligeramiento:

13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00		
8	A1900	(0)	28.50	277.50	250.00		
9	A1900	(0)	28.50	-277.50	303.00		
10	A1900	(0)	28.50	277.50	303.00		
11	A1900	(0)	28.50	-358.00	375.00		
12	A1900	(0)	28.50	358.00	375.00		
13	A1900	(0)	28.50	-320.00	375.00		
14	A1900	(0)	28.50	320.00	375.00		
15	A1900	(0)	28.50	-235.00	375.00		
16	A1900	(0)	28.50	235.00	375.00		
17	A1900	(0)	28.50	-197.00	375.00		
18	A1900	(0)	28.50	197.00	375.00		
19	AEH500	(2)	94.25	-295.00	5.00	295.00	5.00
20	AEH500	(2)	94.25	-295.00	20.00	295.00	20.00
21	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
22	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
23	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
24	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
25	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
26	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
27	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
28	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
29	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
30	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
31	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
32	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
33	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 924.20 CuantÀa de armadura: 1.022 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	2666.660
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn

fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "LA-V1-CV"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		911.730		-14046.0	

Coeficiente de seguridad 1.241

C lculo Resistencia Ultima: Viga "LA-V1-CV"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		44.680		7392.410	

Coeficiente de seguridad 1.845

C lculo Resistencia Ultima: Viga "LA-V1-CV"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		1013.030		-15605.0	

Coeficiente de seguridad 1.117

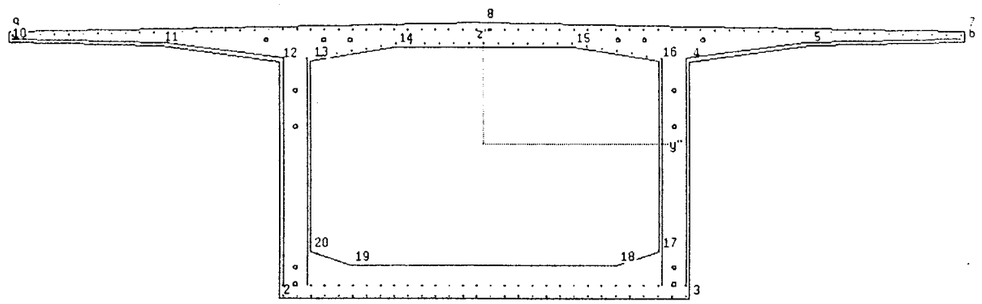
C lculo Resistencia Ultima: Viga "LA-V1-CV"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		49.640		8213.780	

Coeficiente de seguridad 1.660

Mstb. 1 : 90.0



SecciÂn :"LA-V2-SP" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	1.207
dch.	Iz	7.000	12.458	-1.207
abajo	Iy	-2.243	-11.121	1.376
arriba	Iy	1.757	14.193	-1.078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		

7	A1900	(0)	28.50	-277.50	303.00		
8	A1900	(0)	28.50	277.50	303.00		
9	A1900	(0)	28.50	-320.00	375.00		
10	A1900	(0)	28.50	320.00	375.00		
11	A1900	(0)	28.50	-235.00	375.00		
12	A1900	(0)	28.50	235.00	375.00		
13	A1900	(0)	28.50	-197.00	375.00		
14	A1900	(0)	28.50	197.00	375.00		
15	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
16	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
17	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00
18	AEH500	(2)	22.62	695.00	381.00	295.00	390.00
19	AEH500	(2)	60.32	-295.00	390.00	295.00	390.00
20	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
21	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
22	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
23	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
24	AEH500	(2)	14.07	-260.00	349.00	-130.00	370.00
25	AEH500	(2)	14.07	130.00	370.00	260.00	349.00
26	AEH500	(2)	26.14	-130.00	370.00	130.00	370.00
27	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
28	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
29	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
30	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 739.70 CuantÀa de armadura: 0.717 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	2666.660
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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C lculo Resistencia Ultima: Viga "LA-V2-SP"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		-931.400		-10047.9	

Coeficiente de seguridad 1.485

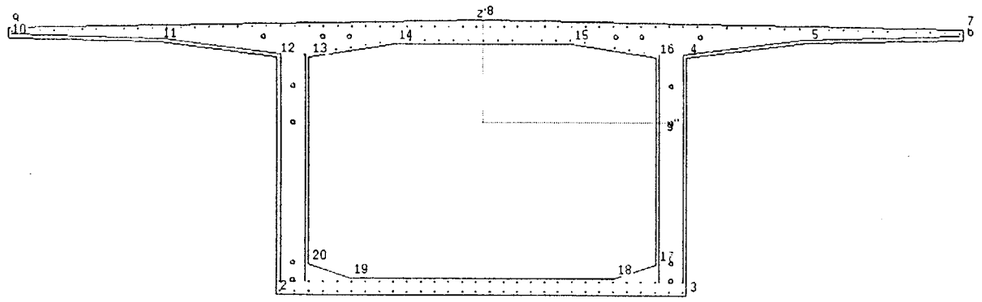
C lculo Resistencia Ultima: Viga "LA-V2-SP"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		-120.000		6113.350	

Coeficiente de seguridad 1.539

Mstb. 1 : 90.0



SecciÂn :"LA-V2-NO" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		

7	A1900	(0)	28.50	-277.50	303.00		
8	A1900	(0)	28.50	277.50	303.00		
9	A1900	(0)	28.50	-320.00	375.00		
10	A1900	(0)	28.50	320.00	375.00		
11	A1900	(0)	28.50	-235.00	375.00		
12	A1900	(0)	28.50	235.00	375.00		
13	A1900	(0)	28.50	-197.00	375.00		
14	A1900	(0)	28.50	197.00	375.00		
15	AEH500	(2)	60.32	-295.00	5.00	295.00	5.00
16	AEH500	(2)	60.32	-295.00	20.00	295.00	20.00
17	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00
18	AEH500	(2)	22.62	695.00	381.00	295.00	390.00
19	AEH500	(2)	33.93	-295.00	390.00	295.00	390.00
20	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
21	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
22	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
23	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
24	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
25	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
26	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
27	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
28	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
29	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
30	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 742.34 CuantÀa de armadura: 0.821 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	2666.660
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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C lculo Resistencia Ultima: Viga "LA-V2-NO"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		-931.000		-10047.9	

Coeficiente de seguridad 1.398

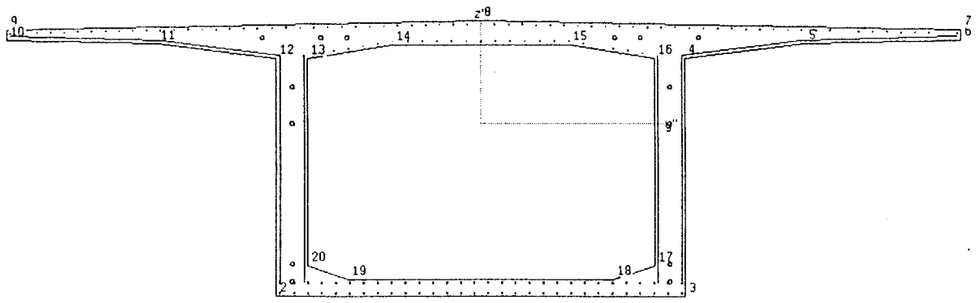
C lculo Resistencia Ultima: Viga "LA-V2-NO"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		-120.000		6113.350	

Coeficiente de seguridad 1.678

Mstb. 1 : 90.0



SecciÂn :"LA-V2-CV" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		

7	A1900	(0)	28.50	-277.50	303.00		
8	A1900	(0)	28.50	277.50	303.00		
9	A1900	(0)	28.50	-320.00	375.00		
10	A1900	(0)	28.50	320.00	375.00		
11	A1900	(0)	28.50	-235.00	375.00		
12	A1900	(0)	28.50	235.00	375.00		
13	A1900	(0)	28.50	-197.00	375.00		
14	A1900	(0)	28.50	197.00	375.00		
15	AEH500	(2)	94.25	-295.00	5.00	295.00	5.00
16	AEH500	(2)	94.25	-295.00	20.00	295.00	20.00
17	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
18	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
19	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
20	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
21	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
22	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
23	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
24	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
25	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
26	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
27	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
28	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
29	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 810.20 CuantÀa de armadura: 0.896 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	2666.660
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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C lculo Resistencia Ultima: Viga "LA-V2-CV"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		-931.400		-10047.9	

Coeficiente de seguridad 1.405

C lculo Resistencia Ultima: Viga "LA-V2-CV"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
		-120.370		6113.350	

Coeficiente de seguridad 1.848

2.4.2. Estudio del E.L.U en servicio

RESUMEN DE TENSIONES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
A	9.062	10.336
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246
Ws	13.385	14.235
Wi	7.987	11.117

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	0	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDA	0.9	0.9	0.9

	X	CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE
		1	1	1	0.6	0.6	0.6
VANO 1	0.00	-27.42	0.00	0.00	0.00	0.00	0.00
VANO 1	0.98	479.82	473.44	-69.48	27.26	-1.08	17.61
VANO 1	1.95	952.73	919.80	-138.97	54.52	-2.15	35.23
VANO 1	2.93	1391.31	1339.09	-208.45	81.77	-3.23	52.84
VANO 1	3.90	1795.56	1731.32	-277.94	109.03	-4.31	70.46
VANO 1	3.90	1795.56	1731.32	-277.94	109.03	-4.31	70.46
VANO 1	4.88	2165.48	2096.48	-347.42	136.29	-5.38	88.07
VANO 1	5.85	2501.06	2434.59	-416.90	163.55	-6.46	105.69
VANO 1	6.83	2802.31	2745.64	-486.39	190.81	-7.54	123.30
VANO 1	7.80	3069.23	3029.65	-555.87	218.07	-8.62	140.92
VANO 1	7.80	3069.23	3029.65	-555.87	218.07	-8.62	140.92
VANO 1	8.78	3301.82	3286.61	-625.36	245.32	-9.69	158.53
VANO 1	9.75	3500.08	3516.54	-694.84	272.58	-10.77	176.15
VANO 1	10.73	3664.00	3719.44	-764.32	299.84	-11.85	193.76
VANO 1	11.70	3793.60	3895.31	-833.81	327.10	-12.92	211.38
VANO 1	11.70	3793.60	3895.31	-833.81	327.10	-12.92	211.38
VANO 1	12.68	3876.62	4044.18	-903.29	354.36	-14.00	228.99
VANO 1	13.65	3925.31	4166.03	-972.78	381.62	-15.08	246.61
VANO 1	14.63	3939.68	4260.89	-1042.26	408.87	-16.15	264.22
VANO 1	15.60	3919.71	4328.75	-1111.75	436.13	-17.23	281.84
VANO 1	15.60	3919.71	4328.75	-1111.75	436.13	-17.23	281.84
VANO 1	16.58	3865.40	4369.64	-1181.23	463.39	-18.31	299.45
VANO 1	17.55	3776.77	4383.56	-1250.71	490.65	-19.39	317.07
VANO 1	18.53	3653.80	4370.53	-1320.20	517.91	-20.46	334.68
VANO 1	19.50	3496.51	4330.55	-1408.15	545.17	-21.54	352.30
VANO 1	19.50	3496.51	4330.55	-1408.15	545.17	-21.54	352.30
VANO 1	20.48	3304.88	4263.65	-1501.52	572.42	-22.62	369.91
VANO 1	21.45	3078.92	4169.84	-1597.07	599.68	-23.69	387.53
VANO 1	22.43	2818.62	4049.14	-1694.81	626.94	-24.77	405.14
VANO 1	23.40	2524.00	3901.57	-1794.73	654.20	-25.85	422.76
VANO 1	23.40	2524.00	3901.57	-1794.73	654.20	-25.85	422.76
VANO 1	24.38	2195.04	3727.16	-1896.84	681.46	-26.92	440.37
VANO 1	25.35	1831.75	3525.92	-2001.14	708.71	-28.00	457.99
VANO 1	26.33	1434.13	3297.91	-2107.62	735.97	-29.08	475.60
VANO 1	27.30	1002.18	3043.14	-2216.29	763.23	-30.16	493.22
VANO 1	27.30	1002.18	3043.14	-2216.29	763.23	-30.16	493.22
VANO 1	28.28	535.90	2761.67	-2327.15	790.49	-31.23	510.83
VANO 1	29.25	35.28	2453.54	-2440.19	817.75	-32.31	528.45
VANO 1	30.23	-499.67	2132.30	-2568.91	845.01	-33.39	546.06
VANO 1	31.20	-1068.95	1786.72	-2701.98	872.26	-34.46	563.68
VANO 1	31.20	-1068.95	1786.72	-2701.98	872.26	-34.46	563.68
VANO 1	32.18	-1672.56	1432.19	-2854.11	899.52	-35.54	581.29
VANO 1	33.15	-2310.50	1144.49	-3076.77	926.78	-36.62	598.91
VANO 1	34.13	-2982.77	968.70	-3369.37	954.04	-37.69	616.52
VANO 1	35.10	-3689.38	824.27	-3726.42	981.30	-38.77	634.14
VANO 1	35.10	-3689.38	824.27	-3726.42	981.30	-38.77	634.14
VANO 1	36.08	-4430.32	713.09	-4142.98	1008.56	-39.85	651.75
VANO 1	37.05	-5205.59	700.27	-4614.60	1035.81	-40.93	669.37
VANO 1	38.03	-6015.19	701.84	-5137.30	1063.07	-42.00	686.98
[redacted]							
VANO 2	0.00	-6659.13	712.94	-5707.47	1090.33	-43.08	704.60
VANO 2	1.20	-5835.39	635.44	-4877.72	1046.12	-37.95	700.38
VANO 2	2.40	-4863.66	570.51	-4178.10	1001.90	-32.82	696.16
VANO 2	3.60	-3943.94	601.48	-3568.13	957.69	-27.69	691.95
VANO 2	4.80	-3076.22	696.98	-3034.11	913.47	-22.55	687.73
VANO 2	4.80	-3076.22	696.98	-3034.11	913.47	-22.55	687.73
VANO 2	6.00	-2260.51	826.25	-2579.62	869.26	-17.42	683.52
VANO 2	7.20	-1496.81	1018.62	-2206.77	825.05	-12.29	679.30
VANO 2	8.40	-785.11	1303.81	-1914.89	780.83	-7.16	675.08
VANO 2	9.60	-125.41	1600.11	-1698.43	736.62	-2.03	670.87
VANO 2	9.60	-125.41	1600.11	-1698.43	736.62	-2.03	670.87
VANO 2	10.80	482.28	2016.97	-1621.44	692.41	-11.44	666.65
VANO 2	12.00	1037.96	2463.50	-1601.78	648.19	-32.37	662.44
VANO 2	13.20	1541.64	2871.28	-1586.30	603.98	-53.30	658.22
VANO 2	14.40	1993.31	3239.47	-1574.28	559.76	-74.24	654.00
VANO 2	14.40	1993.31	3239.47	-1574.28	559.76	-74.24	654.00
VANO 2	15.60	2377.92	3567.86	-1565.63	515.55	-95.17	649.79
VANO 2	16.80	2710.52	3856.36	-1560.30	471.34	-116.10	645.57
VANO 2	18.00	2991.11	4104.90	-1558.30	427.12	-137.03	641.36
VANO 2	19.20	3219.70	4313.44	-1559.62	382.91	-157.96	637.14
VANO 2	19.20	3219.70	4313.44	-1559.62	382.91	-157.96	637.14
VANO 2	20.40	3396.29	4481.93	-1564.25	338.70	-178.89	632.92
VANO 2	21.60	3520.87	4610.34	-1572.21	294.48	-199.82	628.71
VANO 2	22.80	3593.44	4698.66	-1586.60	250.27	-220.75	624.49
VANO 2	24.00	3614.01	4746.87	-1627.77	206.05	-241.68	620.28
VANO 2	24.00	3614.01	4746.87	-1627.77	206.05	-241.68	620.28
VANO 2	25.20	3582.57	4754.97	-1672.25	161.84	-262.61	616.06
VANO 2	26.40	3499.13	4722.96	-1720.04	117.63	-283.54	611.84
VANO 2	27.60	3363.68	4650.84	-1771.15	74.94	-304.47	607.63
VANO 2	28.80	3176.22	4536.63	-1825.58	80.07	-325.40	603.41
VANO 2	28.80	3176.22	4538.63	-1825.58	80.07	-325.40	603.41
VANO 2	30.00	2936.76	4386.36	-1883.32	85.20	-346.33	599.20
VANO 2	31.20	2645.29	4194.05	-1944.39	90.33	-367.26	594.98
VANO 2	32.40	2301.82	3961.74	-2008.77	95.46	-388.19	590.76
VANO 2	33.60	1906.34	3689.50	-2076.50	100.60	-409.12	586.55
VANO 2	33.60	1906.34	3689.50	-2076.50	100.60	-409.12	586.55
VANO 2	34.80	1458.86	3377.40	-2147.58	105.73	-430.06	582.33
VANO 2	36.00	959.37	3025.62	-2222.11	110.86	-450.99	578.12
VANO 2	37.20	407.88	2634.76	-2300.58	115.99	-471.92	573.90
VANO 2	38.40	-195.62	2221.02	-2399.09	121.12	-492.85	569.69
VANO 2	38.40	-195.62	2221.02	-2399.09	121.12	-492.85	569.69
VANO 2	39.60	-851.13	1873.35	-2606.32	126.25	-513.78	565.47
VANO 2	40.80	-1558.64	1566.18	-2888.21	131.38	-534.71	561.25
VANO 2	42.00	-2318.15	1313.76	-3251.09	136.52	-555.64	557.04
VANO 2	43.20	-3129.68	1161.69	-3696.96	141.65	-576.57	552.82
VANO 2	43.20	-3129.68	1161.69	-3696.96	141.65	-576.57	552.82
VANO 2	44.40	-3993.20	1053.24	-4224.32	146.78	-597.50	548.61
VANO 2	45.60	-4908.74	1006.83	-4829.88	151.91	-618.43	544.39
VANO 2	46.80	-5876.27	1029.66	-5509.39	157.04	-639.36	540.17
[redacted]							

MULTIPLICADOR(Perdidas x Coef.Seg)

	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO
		0.76	0.72	0.72	0.76	4093.74	Variable	-1980.55	-224.49	-642.86
VANO 1	0.00	1166.51	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	0.98	1058.59	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	1.95	801.57	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	2.93	544.56	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	3.90	287.54	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	3.90	287.54	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	4.88	30.52	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	5.85	-226.49	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	6.83	-483.51	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	7.80	-740.53	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	7.80	-740.53	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	8.78	-997.54	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	9.75	-1254.56	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	10.73	-1511.58	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	11.70	-1768.59	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	11.70	-1768.59	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	12.68	-2025.61	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	13.65	-2282.63	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	14.63	-2539.64	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	15.60	-2796.66	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	15.60	-2796.66	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	16.58	-2956.76	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	17.55	-2734.12	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	18.53	-2470.16	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	19.50	-2206.19	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	19.50	-2206.19	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	20.48	-1942.22	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	21.45	-1678.26	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	22.43	-1414.29	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	23.40	-1150.33	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	23.40	-1150.33	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	24.38	-886.36	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	25.35	-622.40	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	26.33	-358.43	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	27.30	-94.47	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	27.30	-94.47	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	28.28	169.50	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	29.25	433.47	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	30.23	697.43	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	31.20	961.40	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	31.20	961.40	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	32.18	1225.36	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	33.15	1489.33	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	34.13	1753.29	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	35.10	2017.26	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	35.10	2017.26	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	36.08	2281.23	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	37.05	2545.19	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
VANO 1	38.03	2809.16	0.00	0.00	1723.68	4093.74	1169.64	-1980.55	-224.49	-642.86
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VANO 2	0.00	3691.06	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	1.20	3463.15	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	2.40	3069.78	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	3.60	2676.42	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	4.80	2283.05	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	4.80	2283.05	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	6.00	1889.69	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	7.20	1496.33	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	8.40	1102.96	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	9.60	709.60	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	9.60	709.60	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	10.80	316.23	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	12.00	-77.13	0.00	0.00	2585.52	4093.74	1169.64	-1888.08	-224.49	-642.86
VANO 2	13.20	-470.50	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	14.40	-863.86	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	14.40	-863.86	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	15.60	-1257.22	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	16.80	-1650.59	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	18.00	-2043.95	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	19.20	-2437.32	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	19.20	-2437.32	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	20.40	-2830.68	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	21.60	-3224.05	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	22.80	-3617.41	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	24.00	-3928.05	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	24.00	-3928.05	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	25.20	-3609.98	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	26.40	-3209.18	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	27.60	-2808.38	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	28.80	-2407.58	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	28.80	-2407.58	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	30.00	-2006.78	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	31.20	-1605.98	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	32.40	-1205.19	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	33.60	-804.39	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	33.60	-804.39	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	34.80	-403.59	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	36.00	-2.79	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	37.20	398.01	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	38.40	798.81	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	38.40	798.81	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	39.60	1199.60	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	40.80	1600.40	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	42.00	2001.20	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	43.20	2402.00	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	43.20	2402.00	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	44.40	2802.80	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	45.60	3203.60	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
VANO 2	46.80	3604.40	0.00	0.00	2585.52	4093.74		-1888.08	-224.49	-642.86
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	ESFUERZOS EN ROTURA CON FRENADO				ESFUERZOS EN ROTURA SIN FRENADO			
	AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 1	5848.20	-2025.89	1259.10	1259.10	5848.20	-1061.60	1259.10	1259.10
VANO 1	5848.20	-2025.89	2601.43	1718.13	5848.20	-1061.60	2601.43	1718.13
VANO 1	5848.20	-2025.89	3691.14	1965.14	5848.20	-1061.60	3691.14	1965.14
VANO 1	5848.20	-2025.89	4693.90	2165.81	5848.20	-1061.60	4693.90	2165.81
VANO 1	5848.20	-2025.89	5609.71	2320.13	5848.20	-1061.60	5609.71	2320.13
VANO 1	5848.20	-2025.89	5609.71	2320.13	5848.20	-1061.60	5609.71	2320.13
VANO 1	5848.20	-2025.89	6438.58	2428.10	5848.20	-1061.60	6438.58	2428.10
VANO 1	5848.20	-2025.89	7180.51	2489.72	5848.20	-1061.60	7180.51	2489.72
VANO 1	5848.20	-2025.89	7835.52	2505.00	5848.20	-1061.60	7835.52	2505.00
VANO 1	5848.20	-2025.89	8403.61	2473.92	5848.20	-1061.60	8403.61	2473.92
VANO 1	5848.20	-2025.89	8403.61	2473.92	5848.20	-1061.60	8403.61	2473.92
VANO 1	5848.20	-2025.89	8884.78	2396.50	5848.20	-1061.60	8884.78	2396.50
VANO 1	5848.20	-2025.89	9279.06	2272.73	5848.20	-1061.60	9279.06	2272.73
VANO 1	5848.20	-2025.89	9586.44	2102.62	5848.20	-1061.60	9586.44	2102.62
VANO 1	5848.20	-2025.89	9806.94	1886.15	5848.20	-1061.60	9806.94	1886.15
VANO 1	5848.20	-2025.89	9806.94	1886.15	5848.20	-1061.60	9806.94	1886.15
VANO 1	5848.20	-2025.89	9924.05	1606.82	5848.20	-1061.60	9924.05	1606.82
VANO 1	5848.20	-2025.89	9954.30	1281.14	5848.20	-1061.60	9954.30	1281.14
VANO 1	5848.20	-2025.89	9897.71	909.11	5848.20	-1061.60	9897.71	909.11
VANO 1	5848.20	-2025.89	9754.29	490.74	5848.20	-1061.60	9754.29	490.74
VANO 1	5848.20	-2025.89	9754.29	490.74	5848.20	-1061.60	9754.29	490.74
VANO 1	5848.20	-2025.89	9631.73	133.70	5848.20	-1061.60	9631.73	133.70
VANO 1	5848.20	-2025.89	9847.64	155.58	5848.20	-1061.60	9847.64	155.58
VANO 1	5848.20	-2025.89	10022.69	177.03	5848.20	-1061.60	10022.69	177.03
VANO 1	5848.20	-2025.89	10110.98	124.43	5848.20	-1061.60	10110.98	124.43
VANO 1	5848.20	-2025.89	10110.98	124.43	5848.20	-1061.60	10110.98	124.43
VANO 1	5848.20	-2025.89	10112.54	17.36	5848.20	-1061.60	10112.54	17.36
VANO 1	5848.20	-2025.89	10027.38	-139.34	5848.20	-1061.60	10027.38	-139.34
VANO 1	5848.20	-2025.89	9855.54	-345.66	5848.20	-1061.60	9855.54	-345.66
VANO 1	5848.20	-2025.89	9597.04	-601.61	5848.20	-1061.60	9597.04	-601.61
VANO 1	5848.20	-2025.89	9597.04	-601.61	5848.20	-1061.60	9597.04	-601.61
VANO 1	5848.20	-2025.89	9251.94	-907.19	5848.20	-1061.60	9251.94	-907.19
VANO 1	5848.20	-2025.89	8820.25	-1262.39	5848.20	-1061.60	8820.25	-1262.39
VANO 1	5848.20	-2025.89	8302.04	-1667.23	5848.20	-1061.60	8302.04	-1667.23
VANO 1	5848.20	-2025.89	7697.37	-2121.69	5848.20	-1061.60	7697.37	-2121.69
VANO 1	5848.20	-2025.89	7697.37	-2121.69	5848.20	-1061.60	7697.37	-2121.69
VANO 1	5848.20	-2025.89	7006.28	-2625.78	5848.20	-1061.60	7006.28	-2625.78
VANO 1	5848.20	-2025.89	6228.86	-3179.50	5848.20	-1061.60	6228.86	-3179.50
VANO 1	5848.20	-2025.89	5385.42	-3803.06	5848.20	-1061.60	5385.42	-3803.06
VANO 1	5848.20	-2025.89	4459.13	-4479.52	5848.20	-1061.60	4459.13	-4479.52
VANO 1	5848.20	-2025.89	4459.13	-4479.52	5848.20	-1061.60	4459.13	-4479.52
VANO 1	5848.20	-2025.89	3473.07	-5230.91	5848.20	-1061.60	3473.07	-5230.91
VANO 1	5848.20	-2025.89	2540.90	-6134.45	5848.20	-1061.60	2540.90	-6134.45
VANO 1	5848.20	-2025.89	1730.25	-7189.23	5848.20	-1061.60	1730.25	-7189.23
VANO 1	5848.20	-2025.89	920.29	-8387.05	5848.20	-1061.60	920.29	-8387.05
VANO 1	5848.20	-2025.89	920.29	-8387.05	5848.20	-1061.60	920.29	-8387.05
VANO 1	5848.20	-2025.89	113.87	-9720.48	5848.20	-1061.60	113.87	-9720.48
VANO 1	5848.20	-2025.89	-591.38	-11182.84	5848.20	-1061.60	-591.38	-11182.84
VANO 1	5848.20	-2025.89	-1321.39	-12768.17	5848.20	-1061.60	-1321.39	-12768.17
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VANO 2	5848.20	-943.46	-1396.84	-13784.47	5848.20	20.83	-1396.84	-13784.47
VANO 2	5848.20	-943.46	-456.94	-11403.34	5848.20	20.83	-456.94	-11403.34
VANO 2	5848.20	-943.46	247.79	-9471.45	5848.20	20.83	247.79	-9471.45
VANO 2	5848.20	-943.46	1026.16	-7744.25	5848.20	20.83	1026.16	-7744.25
VANO 2	5848.20	-943.46	1831.10	-6201.17	5848.20	20.83	1831.10	-6201.17
VANO 2	5848.20	-943.46	1831.10	-6201.17	5848.20	20.83	1831.10	-6201.17
VANO 2	5848.20	-943.46	2616.51	-4847.60	5848.20	20.83	2616.51	-4847.60
VANO 2	5848.20	-943.46	3426.35	-3686.70	5848.20	20.83	3426.35	-3686.70
VANO 2	5848.20	-943.46	4305.21	-2717.46	5848.20	20.83	4305.21	-2717.46
VANO 2	5848.20	-943.46	5130.53	-1931.56	5848.20	20.83	5130.53	-1931.56
VANO 2	5848.20	-943.46	5130.53	-1931.56	5848.20	20.83	5130.53	-1931.56
VANO 2	5848.20	-943.46	6066.48	-1446.88	5848.20	20.83	6066.48	-1446.88
VANO 2	5848.20	-943.46	6976.74	-1135.68	5848.20	20.83	6976.74	-1135.68
VANO 2	4548.60	-943.46	7758.66	-900.97	4548.60	20.83	7758.66	-900.97
VANO 2	4548.60	-943.46	8410.98	-741.66	4548.60	20.83	8410.98	-741.66
VANO 2	4548.60	-943.46	8410.98	-741.66	4548.60	20.83	8410.98	-741.66
VANO 2	4548.60	-943.46	8913.07	-677.92	4548.60	20.83	8913.07	-677.92
VANO 2	4548.60	-943.46	9285.12	-689.38	4548.60	20.83	9285.12	-689.38
VANO 2	4548.60	-943.46	9527.02	-776.05	4548.60	20.83	9527.02	-776.05
VANO 2	4548.60	-943.46	9638.70	-937.90	4548.60	20.83	9638.70	-937.90
VANO 2	4548.60	-943.46	9638.70	-937.90	4548.60	20.83	9638.70	-937.90
VANO 2	4548.60	-943.46	9620.11	-1174.93	4548.60	20.83	9620.11	-1174.93
VANO 2	4548.60	-943.46	9471.19	-1487.14	4548.60	20.83	9471.19	-1487.14
VANO 2	4548.60	-943.46	9191.93	-1879.23	4548.60	20.83	9191.93	-1879.23
VANO 2	4548.60	-943.46	8874.22	-2289.76	4548.60	20.83	8874.22	-2289.76
VANO 2	4548.60	-943.46	8874.22	-2289.76	4548.60	20.83	8874.22	-2289.76
VANO 2	4548.60	-943.46	9124.69	-2076.90	4548.60	20.83	9124.69	-2076.90
VANO 2	4548.60	-943.46	9336.71	-1847.31	4548.60	20.83	9336.71	-1847.31
VANO 2	4548.60	-943.46	9420.65	-1692.89	4548.60	20.83	9420.65	-1692.89
VANO 2	4548.60	-943.46	9445.98	-1613.66	4548.60	20.83	9445.98	-1613.66
VANO 2	4548.60	-943.46	9445.98	-1613.66	4548.60	20.83	9445.98	-1613.66
VANO 2	4548.60	-943.46	9341.00	-1609.61	4548.60	20.83	9341.00	-1609.61
VANO 2	4548.60	-943.46	9105.76	-1680.75	4548.60	20.83	9105.76	-1680.75
VANO 2	4548.60	-943.46	8740.32	-1827.09	4548.60	20.83	8740.32	-1827.09
VANO 2	4548.60	-943.46	8244.76	-2048.63	4548.60	20.83	8244.76	-2048.63
VANO 2	4548.60	-943.46	8244.76	-2048.63	4548.60	20.83	8244.76	-2048.63
VANO 2	4548.60	-943.46	7619.23	-2345.42	4548.60	20.83	7619.23	-2345.42
VANO 2	4548.60	-943.46	6863.95	-2717.59	4548.60	20.83	6863.95	-2717.59
VANO 2	4548.60	-943.46	5979.84	-3165.88	4548.60	20.83	5979.84	-3165.88
VANO 2	4548.60	-943.46	4991.21	-3714.42	4548.60	20.83	4991.21	-3714.42
VANO 2	4548.60	-943.46	4991.21	-3714.42	4548.60	20.83	4991.21	-3714.42
VANO 2	4548.60	-943.46	4031.48	-4496.27	4548.60	20.83	4031.48	-4496.27
VANO 2	4548.60	-943.46	3062.29	-5460.31	4548.60	20.83	3062.29	-5460.31
VANO 2	4548.60	-943.46	2105.02	-6616.04	4548.60	20.83	2105.02	-6616.04
VANO 2	4548.60	-943.46	1228.06	-7966.46	4548.60	20.83	1228.06	-7966.46
VANO 2	4548.60	-943.46	1228.06	-7966.46	4548.60	20.83	1228.06	-7966.46
VANO 2	4548.60	-943.46	346.33	-9509.33	4548.60	20.83	346.33	-9509.33
VANO 2	4548.60	-943.46	-512.56	-11239.71	4548.60	20.83	-512.56	-11239.71
VANO 2	4548.60	-943.46	-1337.77	-13151.22	4548.60	20.83	-1337.77	-13151.22
[redacted]								

	X	VANO 3 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE
VANO 3	0.00	-6895.82	1079.42	-6258.29	162.17	-678.22	535.96
VANO 3	1.20	-5885.78	996.98	-5484.27	142.63	-656.96	537.03
VANO 3	2.40	-4927.74	941.15	-4785.29	123.08	-635.70	538.10
VANO 3	3.60	-4021.71	971.78	-4159.91	103.53	-614.44	539.17
VANO 3	4.80	-3167.69	1052.85	-3612.49	83.99	-593.17	540.25
VANO 3	4.80	-3167.69	1052.85	-3612.49	83.99	-593.17	540.25
VANO 3	6.00	-2365.67	1169.05	-3146.58	64.44	-571.91	541.32
VANO 3	7.20	-1615.66	1379.54	-2764.11	44.90	-550.65	542.39
VANO 3	8.40	-917.65	1657.23	-2463.84	25.35	-529.39	543.46
VANO 3	9.60	-271.65	1976.46	-2238.84	5.81	-508.13	544.54
VANO 3	9.60	-271.65	1976.46	-2238.84	5.81	-508.13	544.54
VANO 3	10.80	322.35	2404.66	-2165.39	3.86	-486.87	545.61
VANO 3	12.00	864.34	2835.09	-2137.03	9.10	-465.61	546.68
VANO 3	13.20	1354.32	3226.10	-2112.25	14.33	-444.34	547.75
VANO 3	14.40	1792.30	3577.37	-2090.83	19.57	-423.08	548.83
VANO 3	14.40	1792.30	3577.37	-2090.83	19.57	-423.08	548.83
VANO 3	15.60	2163.22	3888.80	-2072.74	24.80	-401.82	549.90
VANO 3	16.80	2482.13	4160.29	-2057.97	30.04	-380.56	550.97
VANO 3	18.00	2749.03	4391.80	-2046.51	35.27	-359.30	552.04
VANO 3	19.20	2963.93	4583.28	-2038.37	40.51	-338.04	553.12
VANO 3	19.20	2963.93	4583.28	-2038.37	40.51	-338.04	553.12
VANO 3	20.40	3126.82	4734.70	-2033.55	49.64	-316.77	554.19
VANO 3	21.60	3237.70	4846.03	-2032.04	91.40	-295.51	555.26
VANO 3	22.80	3296.58	4917.25	-2033.84	133.16	-274.25	556.33
VANO 3	24.00	3303.46	4948.36	-2059.59	174.92	-252.99	557.41
VANO 3	24.00	3303.46	4948.36	-2059.59	174.92	-252.99	557.41
VANO 3	25.20	3258.33	4939.34	-2098.79	216.68	-248.29	558.48
VANO 3	26.40	3161.19	4890.21	-2141.31	258.44	-267.84	559.55
VANO 3	27.60	3012.05	4800.96	-2187.15	300.21	-287.38	560.62
VANO 3	28.80	2810.90	4671.61	-2236.30	341.97	-306.93	561.70
VANO 3	28.80	2810.90	4671.61	-2236.30	341.97	-306.93	561.70
VANO 3	30.00	2557.75	4502.18	-2288.76	383.73	-326.47	562.77
VANO 3	31.20	2252.59	4292.70	-2344.55	425.49	-346.02	563.84
VANO 3	32.40	1895.42	4043.21	-2403.65	467.25	-365.56	564.91
VANO 3	33.60	1486.25	3753.76	-2466.08	509.01	-385.11	565.99
VANO 3	33.60	1486.25	3753.76	-2466.08	509.01	-385.11	565.99
VANO 3	34.80	1025.08	3424.42	-2531.86	550.77	-404.66	567.06
VANO 3	36.00	511.90	3055.32	-2601.03	592.53	-424.20	568.13
VANO 3	37.20	-53.29	2647.48	-2674.54	634.29	-443.75	569.20
VANO 3	38.40	-670.48	2223.37	-2774.73	676.05	-463.29	570.28
VANO 3	38.40	-670.48	2223.37	-2774.73	676.05	-463.29	570.28
VANO 3	39.60	-1339.68	1883.28	-3001.75	717.81	-482.84	571.35
VANO 3	40.80	-2060.89	1584.43	-3305.49	759.57	-502.39	572.42
VANO 3	42.00	-2824.09	1340.48	-3691.46	801.33	-521.93	573.49
VANO 3	43.20	-3659.31	1203.32	-4162.00	843.10	-541.48	574.57
VANO 3	43.20	-3659.31	1203.32	-4162.00	843.10	-541.48	574.57
VANO 3	44.40	-4536.53	1109.80	-4715.81	884.86	-561.02	575.64
VANO 3	45.60	-5465.76	1087.28	-5349.58	926.62	-580.57	576.71
VANO 3	46.80	-6446.99	1124.89	-6059.03	968.38	-600.11	577.78
VANO 3	[illegible]	-7480.22	1190.66	-6839.52	1010.14	-619.66	578.86

	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO
VANO 3	0.00	3839.74	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	1.20	3606.98	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	2.40	3208.77	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	3.60	2810.56	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	4.80	2412.34	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	4.80	2412.34	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	6.00	2014.13	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	7.20	1615.92	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	8.40	1217.71	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	9.60	819.49	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	9.60	819.49	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	10.80	421.28	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	12.00	23.07	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	13.20	-375.14	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	14.40	-773.35	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	14.40	-773.35	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	15.60	-1171.57	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	16.80	-1569.78	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	18.00	-1967.99	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	19.20	-2366.20	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	19.20	-2366.20	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	20.40	-2764.42	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	21.60	-3162.63	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	22.80	-3560.84	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	24.00	-3876.33	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	24.00	-3876.33	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	25.20	-3563.10	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	26.40	-3167.15	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	27.60	-2771.20	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	28.80	-2375.25	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	28.80	-2375.25	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	30.00	-1979.30	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	31.20	-1583.35	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	32.40	-1187.40	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	33.60	-791.45	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	33.60	-791.45	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	34.80	-395.50	0.00	0.00	2585.52	4093.74		-1796.06	-224.49	-642.86
VANO 3	36.00	0.45	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	37.20	396.40	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	38.40	792.35	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	38.40	792.35	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	39.60	1188.30	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	40.80	1584.25	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	42.00	1980.20	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	43.20	2376.15	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	43.20	2376.15	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	44.40	2772.10	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	45.60	3168.05	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	46.80	3564.00	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86
VANO 3	48.00	3794.51	0.00	0.00	2585.52	4093.74	1169.64	-1796.06	-224.49	-642.86

	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 3	4548.60	-819.23	-2376.65	-15447.75	4548.60	145.06	-2376.65	-15447.75
VANO 3	4548.60	-819.23	-1423.09	-13149.88	4548.60	145.06	-1423.09	-13149.88
VANO 3	4548.60	-819.23	-683.65	-11218.64	4548.60	145.06	-683.65	-11218.64
VANO 3	4548.60	-819.23	115.26	-9467.99	4548.60	145.06	115.26	-9467.99
VANO 3	4548.60	-819.23	919.63	-7904.50	4548.60	145.06	919.63	-7904.50
VANO 3	4548.60	-819.23	919.63	-7904.50	4548.60	145.06	919.63	-7904.50
VANO 3	4548.60	-819.23	1706.48	-6533.47	4548.60	145.06	1706.48	-6533.47
VANO 3	4548.60	-819.23	2564.57	-5357.82	4548.60	145.06	2564.57	-5357.82
VANO 3	4548.60	-819.23	3453.25	-4375.66	4548.60	145.06	3453.25	-4375.66
VANO 3	4548.60	-819.23	4334.03	-3576.63	4548.60	145.06	4334.03	-3576.63
VANO 3	4548.60	-819.23	4334.03	-3576.63	4548.60	145.06	4334.03	-3576.63
VANO 3	4548.60	-819.23	5334.45	-3075.12	4548.60	145.06	5334.45	-3075.12
VANO 3	4548.60	-819.23	6278.79	-2711.47	4548.60	145.06	6278.79	-2711.47
VANO 3	4548.60	-819.23	7093.79	-2423.38	4548.60	145.06	7093.79	-2423.38
VANO 3	4548.60	-819.23	7778.98	-2210.54	4548.60	145.06	7778.98	-2210.54
VANO 3	4548.60	-819.23	7778.98	-2210.54	4548.60	145.06	7778.98	-2210.54
VANO 3	4548.60	-819.23	8313.85	-2093.23	4548.60	145.06	8313.85	-2093.23
VANO 3	4548.60	-819.23	8718.62	-2051.12	4548.60	145.06	8718.62	-2051.12
VANO 3	4548.60	-819.23	8993.21	-2084.19	4548.60	145.06	8993.21	-2084.19
VANO 3	4548.60	-819.23	9137.55	-2192.43	4548.60	145.06	9137.55	-2192.43
VANO 3	4548.60	-819.23	9137.55	-2192.43	4548.60	145.06	9137.55	-2192.43
VANO 3	4548.30	-819.23	9157.42	-2375.86	4548.60	145.06	9157.42	-2375.86
VANO 3	4548.60	-819.23	9095.91	-2634.46	4548.60	145.06	9095.91	-2634.46
VANO 3	4548.60	-819.23	8904.02	-2968.25	4548.60	145.06	8904.02	-2968.25
VANO 3	4548.60	-819.23	8673.67	-3316.23	4548.60	145.06	8673.67	-3316.23
VANO 3	4548.60	-819.23	8673.67	-3316.23	4548.60	145.06	8673.67	-3316.23
VANO 3	4548.60	-819.23	9011.50	-3080.89	4548.60	145.06	9011.50	-3080.89
VANO 3	4548.60	-819.23	9310.86	-2865.18	4548.60	145.06	9310.86	-2865.18
VANO 3	4548.60	-819.23	9479.83	-2724.64	4548.60	145.06	9479.83	-2724.64
VANO 3	4548.60	-819.23	9518.46	-2659.29	4548.60	145.06	9518.46	-2659.29
VANO 3	4548.60	-819.23	9518.46	-2659.29	4548.60	145.06	9518.46	-2659.29
VANO 3	4548.60	-819.23	9426.75	-2669.12	4548.60	145.06	9426.75	-2669.12
VANO 3	4548.60	-819.23	9204.76	-2754.13	4548.60	145.06	9204.76	-2754.13
VANO 3	4548.60	-819.23	8852.54	-2914.34	4548.60	145.06	8852.54	-2914.34
VANO 3	4548.60	-819.23	8370.18	-3149.74	4548.60	145.06	8370.18	-3149.74
VANO 3	4548.60	-819.23	8370.18	-3149.74	4548.60	145.06	8370.18	-3149.74
VANO 3	4548.60	-819.23	7757.78	-3460.36	4548.60	145.06	7757.78	-3460.36
VANO 3	5848.20	-819.23	7015.53	-3846.29	5848.20	145.06	7015.53	-3846.29
VANO 3	5848.20	-819.23	6144.97	-4308.93	5848.20	145.06	6144.97	-4308.93
VANO 3	5848.20	-819.23	5179.78	-4881.80	5848.20	145.06	5179.78	-4881.80
VANO 3	5848.20	-819.23	5179.78	-4881.80	5848.20	145.06	5179.78	-4881.80
VANO 3	5848.20	-819.23	4270.42	-5715.12	5848.20	145.06	4270.42	-5715.12
VANO 3	5848.20	-819.23	3352.73	-6733.73	5848.20	145.06	3352.73	-6733.73
VANO 3	5848.20	-819.23	2447.16	-7945.89	5848.20	145.06	2447.16	-7945.89
VANO 3	5848.20	-819.23	1631.57	-9355.12	5848.20	145.06	1631.57	-9355.12
VANO 3	5848.20	-819.23	1631.57	-9355.12	5848.20	145.06	1631.57	-9355.12
VANO 3	5848.20	-819.23	811.24	-10959.44	5848.20	145.06	811.24	-10959.44
VANO 3	5848.20	-819.23	27.20	-12753.94	5848.20	145.06	27.20	-12753.94
VANO 3	5848.20	-819.23	-736.86	-14732.15	5848.20	145.06	-736.86	-14732.15
VANO 3	5848.20	-819.23	-1712.87	-17070.96	5848.20	[illegible]	-1712.87	-17070.96

	X	VANO 4 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE
VANO 4	0.00	-7480.23	1190.69	-6839.52	1010.14	-619.66	578.86
VANO 4	1.28	-6339.29	1106.48	-5914.78	969.46	-580.17	578.58
VANO 4	2.55	-5257.06	1057.08	-5133.94	928.77	-540.67	578.31
VANO 4	3.83	-4233.53	1086.43	-4434.30	888.09	-501.18	578.04
VANO 4	5.10	-3268.72	1175.80	-3820.84	847.41	-461.69	577.77
VANO 4	5.10	-3268.72	1175.80	-3820.84	847.41	-461.69	577.77
VANO 4	6.38	-2362.62	1325.95	-3297.72	806.72	-422.19	577.50
VANO 4	7.65	-1515.23	1574.84	-2867.40	766.04	-382.70	577.22
VANO 4	8.93	-726.54	1884.89	-2529.21	725.36	-343.21	576.95
VANO 4	10.20	3.43	2242.02	-2276.57	684.68	-303.72	576.68
VANO 4	10.20	3.43	2242.02	-2276.57	684.68	-303.72	576.68
VANO 4	11.48	674.69	2700.27	-2172.77	643.99	-264.22	576.41
VANO 4	12.75	1287.25	3174.68	-2133.13	603.31	-224.73	576.13
VANO 4	14.03	1841.09	3605.23	-2097.84	562.63	-185.24	575.86
VANO 4	15.30	2336.23	3991.26	-2066.37	521.95	-145.74	575.59
VANO 4	15.30	2336.23	3991.26	-2066.37	521.95	-145.74	575.59
VANO 4	16.58	2756.66	4332.60	-2038.67	481.26	-106.25	575.32
VANO 4	17.85	3118.37	4629.13	-2014.72	440.58	-107.64	575.05
VANO 4	19.13	3421.38	4880.79	-1994.52	399.90	-127.20	574.77
VANO 4	20.40	3665.68	5087.50	-1978.06	359.21	-146.76	574.50
VANO 4	20.40	3665.68	5087.50	-1978.06	359.21	-146.76	574.50
VANO 4	21.68	3851.26	5249.22	-1965.35	318.53	-166.32	574.23
VANO 4	22.95	3978.14	5365.92	-1956.37	277.85	-185.87	573.96
VANO 4	24.23	4046.31	5437.57	-1951.14	237.17	-205.43	573.69
VANO 4	25.50	4055.77	5464.16	-1966.37	196.48	-224.99	573.41
VANO 4	25.50	4055.77	5464.16	-1966.37	196.48	-224.99	573.41
VANO 4	26.78	4006.52	5445.68	-1998.83	209.70	-244.55	573.14
VANO 4	28.05	3898.56	5382.14	-2035.04	249.19	-264.11	572.87
VANO 4	29.33	3731.89	5273.53	-2074.98	288.68	-283.67	572.60
VANO 4	30.60	3506.51	5119.89	-2118.66	328.17	-303.22	572.32
VANO 4	30.60	3506.51	5119.89	-2118.66	328.17	-303.22	572.32
VANO 4	31.88	3222.42	4921.24	-2166.09	367.67	-322.78	572.05
VANO 4	33.15	2879.63	4677.62	-2217.26	407.16	-342.34	571.78
VANO 4	34.43	2478.12	4389.08	-2272.17	446.65	-361.90	571.51
VANO 4	35.70	2017.90	4055.68	-2330.82	486.15	-381.46	571.24
VANO 4	35.70	2017.90	4055.68	-2330.82	486.15	-381.46	571.24
VANO 4	36.98	1498.98	3677.53	-2393.23	525.64	-401.01	570.96
VANO 4	38.25	921.34	3254.73	-2459.42	565.13	-420.57	570.69
VANO 4	39.53	285.00	2787.63	-2529.59	604.63	-440.13	570.42
VANO 4	40.80	-410.06	2319.14	-2646.50	644.12	-459.69	570.15
VANO 4	40.80	-410.06	2319.14	-2646.50	644.12	-459.69	570.15
VANO 4	42.08	-1163.82	1939.57	-2900.24	683.61	-479.25	569.88
VANO 4	43.35	-1976.29	1602.00	-3237.34	723.11	-498.80	569.60
VANO 4	44.63	-2847.47	1328.64	-3666.57	762.60	-518.36	569.33
VANO 4	45.90	-3777.37	1183.20	-4189.84	802.09	-537.92	569.06
VANO 4	45.90	-3777.37	1183.20	-4189.84	802.09	-537.92	569.06
VANO 4	47.18	-4765.97	1077.51	-4805.22	841.59	-557.48	568.79
VANO 4	48.45	-5813.28	1029.60	-5508.85	881.08	-577.04	568.52
VANO 4	49.73	-6919.30	1062.92	-6295.82	920.57	-596.59	568.24
VANO 5	51.00	-8084.03	1127.16	-7160.91	960.06	-617.17	567.97

	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO
VANO 4	0.00	3794.51	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	1.28	3554.37	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	2.55	3159.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	3.83	2764.16	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	5.10	2369.05	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	5.10	2369.05	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	6.38	1973.94	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	7.65	1578.83	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	8.93	1183.72	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	10.20	788.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	10.20	788.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	11.48	393.50	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	12.75	-1.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	14.03	-396.72	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	15.30	-791.83	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	15.30	-791.83	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	16.58	-1186.94	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	17.85	-1582.05	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	19.13	-1977.16	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	20.40	-2372.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	20.40	-2372.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	21.68	-2767.38	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	22.95	-3162.49	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	24.23	-3557.60	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	25.50	-3875.22	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	25.50	-3875.22	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	26.78	-3557.43	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	28.05	-3162.14	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	29.33	-2766.85	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	30.60	-2371.56	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	30.60	-2371.56	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	31.88	-1976.27	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	33.15	-1580.99	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	34.43	-1185.70	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	35.70	-790.41	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	35.70	-790.41	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	36.98	-395.12	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	38.25	0.17	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	39.53	395.45	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	40.80	790.74	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	40.80	790.74	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	42.08	1186.03	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	43.35	1581.32	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	44.63	1976.61	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	45.90	2371.89	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	45.90	2371.89	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	47.18	2767.18	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	48.45	3162.47	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 4	49.73	3557.76	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86
VANO 5	51.00	3798.07	0.00	0.00	2585.52	4093.74	1169.64	-1701.41	-224.49	-642.86

	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 4	5848.20	-691.46	-1712.67	-17070.96	5848.20	272.84	-1712.67	-17070.96
VANO 4	5848.20	-691.46	-626.96	-14351.15	5848.20	272.84	-626.96	-14351.15
VANO 4	5848.20	-691.46	259.52	-12098.64	5848.20	272.84	259.52	-12098.64
VANO 4	5848.20	-691.46	1184.85	-10047.21	5848.20	272.84	1184.85	-10047.21
VANO 4	5848.20	-691.46	2120.97	-8204.30	5848.20	272.84	2120.97	-8204.30
VANO 4	5848.20	-691.46	2120.97	-8204.30	5848.20	272.84	2120.97	-8204.30
VANO 4	5848.20	-691.46	3068.97	-6576.14	5848.20	272.84	3068.97	-6576.14
VANO 4	5848.20	-691.46	4085.85	-5166.46	5848.20	272.84	4085.85	-5166.46
VANO 4	5848.20	-691.46	5115.20	-3974.22	5848.20	272.84	5115.20	-3974.22
VANO 4	5848.20	-691.46	6135.92	-2989.57	5848.20	272.84	6135.92	-2989.57
VANO 4	5848.20	-691.46	6135.92	-2989.57	5848.20	272.84	6135.92	-2989.57
VANO 4	5848.20	-691.46	7229.06	-2307.43	5848.20	272.84	7229.06	-2307.43
VANO 4	5848.20	-691.46	8267.19	-1800.80	5848.20	272.84	8267.19	-1800.80
VANO 4	5848.20	-691.46	9160.25	-1379.93	5848.20	272.84	9160.25	-1379.93
VANO 4	5848.20	-691.46	9907.29	-1044.07	5848.20	272.84	9907.29	-1044.07
VANO 4	5848.20	-691.46	9907.29	-1044.07	5848.20	272.84	9907.29	-1044.07
VANO 4	5848.20	-691.46	10486.43	-814.72	5848.20	272.84	10486.43	-814.72
VANO 4	5848.20	-691.46	10919.10	-731.58	5848.20	272.84	10919.10	-731.58
VANO 4	5848.20	-691.46	11205.20	-760.57	5848.20	272.84	11205.20	-760.57
VANO 4	5848.20	-691.46	11344.62	-874.43	5848.20	272.84	11344.62	-874.43
VANO 4	5848.20	-691.46	11344.62	-874.43	5848.20	272.84	11344.62	-874.43
VANO 4	5848.20	-691.46	11337.30	-1073.16	5848.20	272.84	11337.30	-1073.16
VANO 4	5848.20	-691.46	11183.20	-1356.76	5848.20	272.84	11183.20	-1356.76
VANO 4	5848.20	-691.46	10882.26	-1725.23	5848.20	272.84	10882.26	-1725.23
VANO 4	5848.20	-691.46	10520.57	-2117.56	5848.20	272.84	10520.57	-2117.56
VANO 4	5848.20	-691.46	10520.57	-2117.56	5848.20	272.84	10520.57	-2117.56
VANO 4	5848.20	-691.46	10798.88	-1908.97	5848.20	272.84	10798.88	-1908.97
VANO 4	5848.20	-691.46	11055.86	-1699.15	5848.20	272.84	11055.86	-1699.15
VANO 4	5848.20	-691.46	11165.99	-1574.19	5848.20	272.84	11165.99	-1574.19
VANO 4	5848.20	-691.46	11129.31	-1534.11	5848.20	272.84	11129.31	-1534.11
VANO 4	5848.20	-691.46	11129.31	-1534.11	5848.20	272.84	11129.31	-1534.11
VANO 4	5848.20	-691.46	10945.86	-1578.89	5848.20	272.84	10945.86	-1578.89
VANO 4	5848.20	-691.46	10615.69	-1708.55	5848.20	272.84	10615.69	-1708.55
VANO 4	5848.20	-691.46	10138.89	-1923.07	5848.20	272.84	10138.89	-1923.07
VANO 4	5848.20	-691.46	9515.54	-2222.48	5848.20	272.84	9515.54	-2222.48
VANO 4	5848.20	-691.46	9515.54	-2222.48	5848.20	272.84	9515.54	-2222.48
VANO 4	5848.20	-691.46	8745.79	-2606.77	5848.20	272.84	8745.79	-2606.77
VANO 4	5848.20	-691.46	7829.84	-3075.99	5848.20	272.84	7829.84	-3075.99
VANO 4	5848.20	-691.46	6768.15	-3630.44	5848.20	272.84	6768.15	-3630.44
VANO 4	5848.20	-691.46	5625.13	-4334.26	5848.20	272.84	5625.13	-4334.26
VANO 4	5848.20	-691.46	5625.13	-4334.26	5848.20	272.84	5625.13	-4334.26
VANO 4	5848.20	-691.46	4536.24	-5322.58	5848.20	272.84	4536.24	-5322.58
VANO 4	5848.20	-691.46	3431.10	-6515.19	5848.20	272.84	3431.10	-6515.19
VANO 4	5848.20	-691.46	2343.00	-7925.26	5848.20	272.84	2343.00	-7925.26
VANO 4	5848.20	-691.46	1367.52	-9555.65	5848.20	272.84	1367.52	-9555.65
VANO 4	5848.20	-691.46	1367.52	-9555.65	5848.20	272.84	1367.52	-9555.65
VANO 4	5848.20	-691.46	372.42	-11403.46	5848.20	272.84	372.42	-11403.46
VANO 4	5848.20	-691.46	-615.27	13462.91	5848.20	272.84	-615.27	-13462.91
VANO 4	5848.20	-691.46	-1560.39	-15726.60	5848.20	272.84	-1560.39	-15726.60
VANO 5	5848.20	-691.46	2710.96	-18300.48	5848.20	272.84	-2710.96	-18300.48

	X	VANO 5 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE
VANO 5	0.00	-8084.03	1127.10	-7160.91	960.06	-617.17	567.97
VANO 5	1.28	-6912.67	1062.63	-6293.28	920.61	-597.59	568.04
VANO 5	2.55	-5800.02	1028.33	-5505.02	881.15	-578.01	568.11
VANO 5	3.83	-4746.09	1074.42	-4799.99	841.69	-558.44	568.19
VANO 5	5.10	-3750.86	1178.95	-4183.10	802.23	-538.86	568.26
VANO 5	5.10	-3750.86	1178.95	-4183.10	802.23	-538.86	568.26
VANO 5	6.38	-2814.34	1323.16	-3658.20	762.77	-519.28	568.33
VANO 5	7.65	-1936.53	1593.20	-3227.22	723.31	-499.70	568.40
VANO 5	8.93	-1117.43	1928.81	-2888.25	683.85	-480.13	568.47
VANO 5	10.20	-357.03	2306.80	-2632.84	644.39	-460.55	568.54
VANO 5	10.20	-357.03	2306.80	-2632.84	644.39	-460.55	568.54
VANO 5	11.48	344.65	2778.66	-2519.19	604.94	-440.97	568.61
VANO 5	12.75	987.62	3247.86	-2450.99	565.48	-421.39	568.69
VANO 5	14.03	1571.88	3672.88	-2386.91	526.02	-401.81	568.76
VANO 5	15.30	2097.44	4053.31	-2326.64	486.56	-382.24	568.83
VANO 5	15.30	2097.44	4053.31	-2326.64	486.56	-382.24	568.83
VANO 5	16.58	2548.28	4388.99	-2270.13	447.10	-362.66	568.90
VANO 5	17.85	2940.41	4679.92	-2217.37	407.64	-343.08	568.97
VANO 5	19.13	3273.84	4925.75	-2168.36	368.18	-323.50	569.04
VANO 5	20.40	3548.55	5126.71	-2123.09	328.73	-303.93	569.12
VANO 5	20.40	3548.55	5126.71	-2123.09	328.73	-303.93	569.12
VANO 5	21.68	3764.56	5282.66	-2081.56	289.27	-284.35	569.19
VANO 5	22.95	3921.85	5393.59	-2043.77	249.81	-264.77	569.26
VANO 5	24.23	4020.44	5459.46	-2009.73	210.35	-245.19	569.33
VANO 5	25.50	4060.31	5480.27	-1979.42	195.51	-240.59	569.40
VANO 5	25.50	4060.31	5480.27	-1979.42	195.51	-240.59	569.40
VANO 5	26.78	4041.48	5456.01	-1966.71	236.09	-261.18	569.47
VANO 5	28.05	3963.94	5386.70	-1974.02	276.67	-281.77	569.54
VANO 5	29.33	3827.69	5272.34	-1985.08	317.26	-302.36	569.62
VANO 5	30.60	3632.73	5112.96	-1999.87	357.84	-322.96	569.69
VANO 5	30.60	3632.73	5112.96	-1999.87	357.84	-322.96	569.69
VANO 5	31.88	3379.06	4908.60	-2018.40	398.42	-343.55	569.76
VANO 5	33.15	3066.68	4659.30	-2040.68	439.01	-364.14	569.83
VANO 5	34.43	2695.59	4365.13	-2066.70	479.59	-384.74	569.90
VANO 5	35.70	2265.79	4026.15	-2096.48	520.17	-405.33	569.97
VANO 5	35.70	2265.79	4026.15	-2096.48	520.17	-405.33	569.97
VANO 5	36.98	1777.28	3642.48	-2130.02	560.75	-425.92	570.04
VANO 5	38.25	1230.06	3214.30	-2167.39	601.34	-446.52	570.12
VANO 5	39.53	624.13	2742.22	-2209.07	641.92	-467.11	570.19
VANO 5	40.80	-40.50	2282.77	-2311.38	682.50	-487.70	570.26
VANO 5	40.80	-40.50	2282.77	-2311.38	682.50	-487.70	570.26
VANO 5	42.08	-763.85	1925.37	-2563.49	723.09	-508.30	570.33
VANO 5	43.35	-1545.91	1614.36	-2900.34	763.67	-528.89	570.40
VANO 5	44.63	-2386.67	1364.32	-3330.17	804.25	-549.48	570.47
VANO 5	45.90	-3286.14	1205.28	-3852.26	844.84	-570.07	570.55
VANO 5	45.90	-3286.14	1205.28	-3852.26	844.84	-570.07	570.55
VANO 5	47.18	-4244.33	1115.30	-4464.71	885.42	-590.67	570.62
VANO 5	48.45	-5261.22	1082.93	-5163.38	926.00	-611.26	570.69
VANO 5	49.73	-6336.83	1131.55	-5943.34	966.58	-631.85	570.76
VANO 5	51.00	-7471.14	1215.21	-6865.06	1007.17	-652.45	570.83

	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO
VANO 5	0.00	3798.07	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	1.28	3557.95	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	2.55	3162.85	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	3.83	2767.75	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	5.10	2372.65	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	5.10	2372.65	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	6.38	1977.55	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	7.65	1582.44	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	8.93	1187.34	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	10.20	792.24	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	10.20	792.24	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	11.48	397.14	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	12.75	2.04	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	14.03	-393.06	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	15.30	-788.16	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	15.30	-788.16	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	16.58	-1183.26	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	17.85	-1578.36	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	19.13	-1973.46	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	20.40	-2368.56	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	20.40	-2368.56	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	21.68	-2763.66	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	22.95	-3158.76	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	24.23	-3553.86	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	25.50	-3871.47	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	25.50	-3871.47	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	26.78	-3553.66	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	28.05	-3158.37	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	29.33	-2763.07	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	30.60	-2367.77	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	30.60	-2367.77	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	31.88	-1972.47	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	33.15	-1577.17	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	34.43	-1181.88	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	35.70	-786.58	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	35.70	-786.58	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	36.98	-391.28	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	38.25	4.02	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	39.53	399.31	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	40.80	794.61	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	40.80	794.61	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	42.08	1189.91	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	43.35	1585.21	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	44.63	1980.50	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	45.90	2375.80	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	45.90	2375.80	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	47.18	2771.10	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	48.45	3166.40	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	49.73	3561.69	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86
VANO 5	51.00	3802.01	0.00	0.00	2585.52	4093.74	1169.64	-1602.41	-224.49	-642.86

	X	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 5	0.00	5848.20	-557.81	-2710.66	-18360.49	5848.20	406.49	-2710.66	-18360.49
VANO 5	1.28	5848.20	-557.81	-1551.92	-15715.14	5848.20	406.49	-1551.92	-15715.14
VANO 5	2.55	5848.20	-557.81	-599.37	-13440.30	5848.20	406.49	-599.37	-13440.30
VANO 5	3.83	5848.20	-557.81	394.50	-11369.58	5848.20	406.49	394.50	-11369.58
VANO 5	5.10	5848.20	-557.81	1396.77	-9510.32	5848.20	406.49	1396.77	-9510.32
VANO 5	5.10	5848.20	-557.81	1396.77	-9510.32	5848.20	406.49	1396.77	-9510.32
VANO 5	6.38	5848.20	-557.81	2379.30	-7868.31	5848.20	406.49	2379.30	-7868.31
VANO 5	7.65	5848.20	-557.81	3471.33	-6446.42	5848.20	406.49	3471.33	-6446.42
VANO 5	8.93	5848.20	-557.81	4582.44	-5241.82	5848.20	406.49	4582.44	-5241.82
VANO 5	10.20	5848.20	-557.81	5677.89	-4241.81	5848.20	406.49	5677.89	-4241.81
VANO 5	10.20	5848.20	-557.81	5677.89	-4241.81	5848.20	406.49	5677.89	-4241.81
VANO 5	11.48	5848.20	-557.81	6834.86	-3533.70	5848.20	406.49	6834.86	-3533.70
VANO 5	12.75	5848.20	-557.81	7908.59	-2973.02	5848.20	406.49	7908.59	-2973.02
VANO 5	14.03	5848.20	-557.81	8836.80	-2497.78	5848.20	406.49	8836.80	-2497.78
VANO 5	15.30	5848.20	-557.81	9618.86	-2107.51	5848.20	406.49	9618.86	-2107.51
VANO 5	15.30	5848.20	-557.81	9618.86	-2107.51	5848.20	406.49	9618.86	-2107.51
VANO 5	16.58	5848.20	-557.81	10232.93	-1823.74	5848.20	406.49	10232.93	-1823.74
VANO 5	17.85	5848.20	-557.81	10700.48	-1624.85	5848.20	406.49	10700.48	-1624.85
VANO 5	19.13	5848.20	-557.81	11021.41	-1510.85	5848.20	406.49	11021.41	-1510.85
VANO 5	20.40	5848.20	-557.81	11195.63	-1481.71	5848.20	406.49	11195.63	-1481.71
VANO 5	20.40	5848.20	-557.81	11195.63	-1481.71	5848.20	406.49	11195.63	-1481.71
VANO 5	21.68	5848.20	-557.81	11223.09	-1537.44	5848.20	406.49	11223.09	-1537.44
VANO 5	22.95	5848.20	-557.81	11103.75	-1678.05	5848.20	406.49	11103.75	-1678.05
VANO 5	24.23	5848.20	-557.81	10837.56	-1903.52	5848.20	406.49	10837.56	-1903.52
VANO 5	25.50	5848.20	-557.81	10547.56	-2150.22	5848.20	406.49	10547.56	-2150.22
VANO 5	25.50	5848.20	-557.81	10547.56	-2150.22	5848.20	406.49	10547.56	-2150.22
VANO 5	26.78	5848.20	-557.81	10899.84	-1834.36	5848.20	406.49	10899.84	-1834.36
VANO 5	28.05	5848.20	-557.81	11191.40	-1541.67	5848.20	406.49	11191.40	-1541.67
VANO 5	29.33	5848.20	-557.81	11336.12	-1333.86	5848.20	406.49	11336.12	-1333.86
VANO 5	30.60	5848.20	-557.81	11334.06	-1210.91	5848.20	406.49	11334.06	-1210.91
VANO 5	30.60	5848.20	-557.81	11334.06	-1210.91	5848.20	406.49	11334.06	-1210.91
VANO 5	31.88	5848.20	-557.81	11185.26	-1172.84	5848.20	406.49	11185.26	-1172.84
VANO 5	33.15	5848.20	-557.81	10889.80	-1219.64	5848.20	406.49	10889.80	-1219.64
VANO 5	34.43	5848.20	-557.81	10447.77	-1351.32	5848.20	406.49	10447.77	-1351.32
VANO 5	35.70	5848.20	-557.81	9859.28	-1567.88	5848.20	406.49	9859.28	-1567.88
VANO 5	35.70	5848.20	-557.81	9859.28	-1567.88	5848.20	406.49	9859.28	-1567.88
VANO 5	36.98	5848.20	-557.81	9124.49	-1869.35	5848.20	406.49	9124.49	-1869.35
VANO 5	38.25	5848.20	-557.81	8243.67	-2255.82	5848.20	406.49	8243.67	-2255.82
VANO 5	39.53	5848.20	-557.81	7217.76	-2728.01	5848.20	406.49	7217.76	-2728.01
VANO 5	40.80	5848.20	-557.81	6131.52	-3370.40	5848.20	406.49	6131.52	-3370.40
VANO 5	40.80	5848.20	-557.81	6131.52	-3370.40	5848.20	406.49	6131.52	-3370.40
VANO 5	42.08	5848.20	-557.81	5119.11	-4316.75	5848.20	406.49	5119.11	-4316.75
VANO 5	43.35	5848.20	-557.81	4097.02	-5470.23	5848.20	406.49	4097.02	-5470.23
VANO 5	44.63	5848.20	-557.81	3087.12	-6840.93	5848.20	406.49	3087.12	-6840.93
VANO 5	45.90	5848.20	-557.81	2134.47	-8430.02	5848.20	406.49	2134.47	-8430.02
VANO 5	45.90	5848.20	-557.81	2134.47	-8430.02	5848.20	406.49	2134.47	-8430.02
VANO 5	47.18	5848.20	-557.81	1206.16	-10233.91	5848.20	406.49	1206.16	-10233.91
VANO 5	48.45	5848.20	-557.81	284.99	-12246.40	5848.20	406.49	284.99	-12246.40
VANO 5	49.73	5848.20	-557.81	-593.94	-14460.07	5848.20	406.49	-593.94	-14460.07
VANO 5	51.00	5848.20	-557.81	-1671.76	-17137.84	5848.20	406.49	-1671.76	-17137.84

	X	VANO 6 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE
VANO 6	0.00	-7471.14	1215.21	-6865.06	1007.17	-652.45	570.83
VANO 6	1.20	-6431.64	1146.11	-6080.17	965.60	-609.67	570.81
VANO 6	2.40	-5444.14	1105.16	-5366.26	924.04	-579.35	570.79
VANO 6	3.60	-4508.66	1126.48	-4727.95	882.48	-559.89	570.77
VANO 6	4.80	-3625.18	1216.33	-4169.48	840.91	-540.42	570.76
VANO 6	4.80	-3625.18	1216.33	-4169.48	840.91	-540.42	570.76
VANO 6	6.00	-2793.70	1352.17	-3694.12	799.35	-520.96	570.74
VANO 6	7.20	-2014.23	1591.30	-3303.12	757.78	-501.49	570.72
VANO 6	8.40	-1286.76	1885.03	-2994.13	716.22	-482.02	570.70
VANO 6	9.60	-611.30	2223.77	-2765.72	674.65	-462.56	570.68
VANO 6	9.60	-611.30	2223.77	-2765.72	674.65	-462.56	570.68
VANO 6	10.80	12.15	2655.26	-2672.83	633.09	-443.09	570.66
VANO 6	12.00	583.60	3069.93	-2606.07	591.53	-423.63	570.64
VANO 6	13.20	1103.04	3445.77	-2543.54	549.96	-404.16	570.62
VANO 6	14.40	1570.48	3781.90	-2484.45	508.40	-384.70	570.60
VANO 6	14.40	1570.48	3781.90	-2484.45	508.40	-384.70	570.60
VANO 6	15.60	1970.85	4078.17	-2428.71	466.83	-365.23	570.58
VANO 6	16.80	2319.22	4334.51	-2376.31	425.27	-345.76	570.57
VANO 6	18.00	2615.58	4550.84	-2327.24	383.70	-326.30	570.55
VANO 6	19.20	2859.94	4727.14	-2281.48	342.14	-306.83	570.53
VANO 6	19.20	2859.94	4727.14	-2281.48	342.14	-306.83	570.53
VANO 6	20.40	3052.29	4863.37	-2239.05	300.58	-287.37	570.51
VANO 6	21.60	3192.63	4959.51	-2199.93	259.01	-267.90	570.49
VANO 6	22.80	3280.97	5015.55	-2164.13	217.45	-248.44	570.47
VANO 6	24.00	3317.30	5031.48	-2131.64	203.02	-249.01	570.45
VANO 6	24.00	3317.30	5031.48	-2131.64	203.02	-249.01	570.45
VANO 6	25.20	3301.63	5007.29	-2114.65	245.79	-269.88	570.43
VANO 6	26.40	3233.95	4943.00	-2119.52	288.57	-290.74	570.41
VANO 6	27.60	3114.27	4838.61	-2127.70	331.34	-311.60	570.40
VANO 6	28.80	2942.58	4694.14	-2139.21	374.11	-332.47	570.38
VANO 6	28.80	2942.58	4694.14	-2139.21	374.11	-332.47	570.38
VANO 6	30.00	2718.88	4509.62	-2154.02	416.89	-353.33	570.36
VANO 6	31.20	2443.18	4285.07	-2172.16	459.66	-374.19	570.34
VANO 6	32.40	2115.47	4020.56	-2193.61	502.43	-395.06	570.32
VANO 6	33.60	1735.76	3716.12	-2218.39	545.21	-415.92	570.30
VANO 6	33.60	1735.76	3716.12	-2218.39	545.21	-415.92	570.30
VANO 6	34.80	1304.04	3371.65	-2246.51	587.98	-436.78	570.28
VANO 6	36.00	820.32	2987.87	-2278.01	630.75	-457.65	570.26
VANO 6	37.20	284.59	2564.60	-2313.21	673.53	-478.51	570.24
VANO 6	38.40	-303.14	2133.96	-2383.89	716.30	-499.37	570.22
VANO 6	38.40	-303.14	2133.96	-2383.89	716.30	-499.37	570.22
VANO 6	39.60	-942.88	1818.24	-2612.12	759.07	-520.24	570.21
VANO 6	40.80	-1634.63	1543.58	-2915.64	801.85	-541.10	570.19
VANO 6	42.00	-2378.38	1323.44	-3301.07	844.62	-561.96	570.17
VANO 6	43.20	-3174.14	1188.24	-3769.88	887.39	-582.83	570.15
VANO 6	43.20	-3174.14	1188.24	-3769.88	887.39	-582.83	570.15
VANO 6	44.40	-4021.90	1113.54	-4320.27	930.17	-603.69	570.13
VANO 6	45.60	-4921.67	1080.98	-4948.78	972.94	-624.55	570.11
VANO 6	46.80	-5873.44	1131.41	-5651.07	1015.71	-645.42	570.09
VANO 6	48.00	-6877.22	1216.60	-6422.59	1058.49	-666.28	570.07

	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO
VANO 6	0.00	3802.01	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	1.20	3570.53	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	2.40	3173.59	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	3.60	2776.66	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	4.80	2379.72	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	4.80	2379.72	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	6.00	1982.79	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	7.20	1585.85	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	8.40	1188.92	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	9.60	791.98	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	9.60	791.98	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	10.80	395.05	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	12.00	-1.89	0.00	0.00	2585.52	4093.74	1169.64	-1507.71	-224.49	-642.86
VANO 6	13.20	-398.82	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	14.40	-795.76	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	14.40	-795.76	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	15.60	-1192.69	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	16.80	-1589.63	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	18.00	-1986.56	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	19.20	-2383.50	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	19.20	-2383.50	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	20.40	-2780.43	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	21.60	-3177.37	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	22.80	-3574.30	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	24.00	-3888.51	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	24.00	-3888.51	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	25.20	-3574.01	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	26.40	-3176.78	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	27.60	-2779.55	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	28.80	-2382.32	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	28.80	-2382.32	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	30.00	-1985.10	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	31.20	-1587.87	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	32.40	-1190.64	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	33.60	-793.41	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	33.60	-793.41	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	34.80	-396.18	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	36.00	1.04	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	37.20	398.27	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	38.40	795.50	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	38.40	795.50	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	39.60	1192.73	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	40.80	1589.96	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	42.00	1987.18	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	43.20	2384.41	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	43.20	2384.41	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	44.40	2781.64	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	45.60	3178.87	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	46.80	3576.10	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86
VANO 6	48.00	3807.87	0.00	0.00	2585.52	4093.74		-1507.71	-224.49	-642.86

	X	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 6	0.00	5848.20	-429.96	-1671.76	-17137.84	5848.20	534.33	-1671.76	-17137.84
VANO 6	1.20	5848.20	-429.96	-691.67	-14750.22	5848.20	534.33	-691.67	-14750.22
VANO 6	2.40	5848.20	-429.96	76.60	-12741.80	5848.20	534.33	76.60	-12741.80
VANO 6	3.60	5848.20	-429.96	868.08	-10933.26	5848.20	534.33	868.08	-10933.26
VANO 6	4.80	5848.20	-429.96	1692.14	-9314.71	5848.20	534.33	1692.14	-9314.71
VANO 6	4.80	5848.20	-429.96	1692.14	-9314.71	5848.20	534.33	1692.14	-9314.71
VANO 6	6.00	5848.20	-429.96	2514.98	-7891.01	5848.20	534.33	2514.98	-7891.01
VANO 6	7.20	5848.20	-429.96	3422.55	-6664.07	5848.20	534.33	3422.55	-6664.07
VANO 6	8.40	5848.20	-429.96	4341.81	-5630.34	5848.20	534.33	4341.81	-5630.34
VANO 6	9.60	5848.20	-429.96	5258.39	-4787.69	5848.20	534.33	5258.39	-4787.69
VANO 6	9.60	5848.20	-429.96	5258.39	-4787.69	5848.20	534.33	5258.39	-4787.69
VANO 6	10.80	5848.20	-429.96	6243.87	-4218.54	5848.20	534.33	6243.87	-4218.54
VANO 6	12.00	5848.20	-429.96	7133.91	-3758.78	5848.20	534.33	7133.91	-3758.78
VANO 6	13.20	4548.60	-429.96	7895.50	-3375.58	4548.60	534.33	7895.50	-3375.58
VANO 6	14.40	4548.60	-429.96	8527.33	-3067.74	4548.60	534.33	8527.33	-3067.74
VANO 6	14.40	4548.60	-429.96	8527.33	-3067.74	4548.60	534.33	8527.33	-3067.74
VANO 6	15.60	4548.60	-429.96	9008.83	-2855.47	4548.60	534.33	9008.83	-2855.47
VANO 6	16.80	4548.60	-429.96	9360.21	-2718.42	4548.60	534.33	9360.21	-2718.42
VANO 6	18.00	4548.60	-429.96	9581.38	-2656.56	4548.60	534.33	9581.38	-2656.56
VANO 6	19.20	4548.60	-429.96	9672.30	-2669.89	4548.60	534.33	9672.30	-2669.89
VANO 6	19.20	4548.60	-429.96	9672.30	-2669.89	4548.60	534.33	9672.30	-2669.89
VANO 6	20.40	4548.60	-429.96	9632.90	-2758.41	4548.60	534.33	9632.90	-2758.41
VANO 6	21.60	4548.60	-429.96	9463.17	-2922.11	4548.60	534.33	9463.17	-2922.11
VANO 6	22.80	4548.60	-429.96	9163.07	-3160.98	4548.60	534.33	9163.07	-3160.98
VANO 6	24.00	4548.60	-429.96	8865.22	-3413.19	4548.60	534.33	8865.22	-3413.19
VANO 6	24.00	4548.60	-429.96	8865.22	-3413.19	4548.60	534.33	8865.22	-3413.19
VANO 6	25.20	4548.60	-429.96	9221.36	-3090.71	4548.60	534.33	9221.36	-3090.71
VANO 6	26.40	4548.60	-429.96	9539.05	-2779.31	4548.60	534.33	9539.05	-2779.31
VANO 6	27.60	4548.60	-429.96	9726.38	-2543.09	4548.60	534.33	9726.38	-2543.09
VANO 6	28.80	4548.60	-429.96	9783.39	-2382.06	4548.60	534.33	9783.39	-2382.06
VANO 6	28.80	4548.60	-429.96	9783.39	-2382.06	4548.60	534.33	9783.39	-2382.06
VANO 6	30.00	4548.60	-429.96	9710.12	-2296.20	4548.60	534.33	9710.12	-2296.20
VANO 6	31.20	4548.60	-429.96	9506.60	-2285.53	4548.60	534.33	9506.60	-2285.53
VANO 6	32.40	4548.60	-429.96	9172.92	-2350.04	4548.60	534.33	9172.92	-2350.04
VANO 6	33.60	4548.60	-429.96	8709.15	-2489.75	4548.60	534.33	8709.15	-2489.75
VANO 6	33.60	4548.60	-429.96	8709.15	-2489.75	4548.60	534.33	8709.15	-2489.75
VANO 6	34.80	4548.60	-429.96	8115.42	-2704.68	4548.60	534.33	8115.42	-2704.68
VANO 6	36.00	4548.60	-429.96	7391.93	-2994.89	4548.60	534.33	7391.93	-2994.89
VANO 6	37.20	4548.60	-429.96	6539.28	-3360.85	4548.60	534.33	6539.28	-3360.85
VANO 6	38.40	4548.60	-429.96	5605.37	-3850.25	4548.60	534.33	5605.37	-3850.25
VANO 6	38.40	4548.60	-429.96	5605.37	-3850.25	4548.60	534.33	5605.37	-3850.25
VANO 6	39.60	4548.60	-429.96	4773.64	-4646.18	4548.60	534.33	4773.64	-4646.18
VANO 6	40.80	4548.60	-429.96	3933.29	-5625.24	4548.60	534.33	3933.29	-5625.24
VANO 6	42.00	4548.60	-429.96	3104.51	-6797.38	4548.60	534.33	3104.51	-6797.38
VANO 6	43.20	4548.60	-429.96	2332.93	-8164.80	4548.60	534.33	2332.93	-8164.80
VANO 6	43.20	4548.60	-429.96	2332.93	-8164.80	4548.60	534.33	2332.93	-8164.80
VANO 6	44.40	4548.60	-429.96	1581.90	-9724.79	4548.60	534.33	1581.90	-9724.79
VANO 6	45.60	4548.60	-429.96	823.87	-11472.17	4548.60	534.33	823.87	-11472.17
VANO 6	46.80	4548.60	-429.96	120.12	-13400.44	4548.60	534.33	120.12	-13400.44
VANO 6	48.00	4548.60	-429.96	-785.54	-15686.58	4548.60	534.33	-785.54	-15686.58

		VANO 7 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE
VANO 7	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22
VANO 7	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22
VANO 7	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22
VANO 7	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22
VANO 7	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22
VANO 7	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22
VANO 7	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22
VANO 7	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23
VANO 7	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23
VANO 7	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23
VANO 7	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23
VANO 7	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23
VANO 7	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23
VANO 7	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23
VANO 7	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23
VANO 7	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23
VANO 7	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23
VANO 7	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23
VANO 7	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24
VANO 7	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24
VANO 7	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24
VANO 7	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24
VANO 7	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24
VANO 7	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24
VANO 7	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24
VANO 7	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24
VANO 7	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24
VANO 7	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24
VANO 7	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24
VANO 7	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24
VANO 7	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24
VANO 7	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25
VANO 7	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25
VANO 7	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25
VANO 7	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25
VANO 7	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25
VANO 7	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25
VANO 7	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25
VANO 7	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25
VANO 7	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25
VANO 7	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25
VANO 7	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25
VANO 7	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25
VANO 7	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26
VANO 7	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26
VANO 7	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26
VANO 7	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26
VANO 7	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26
VANO 7	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26
VANO 7	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26

X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO
0.00	3806.66	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
1.20	3575.03	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
2.40	3177.95	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
3.60	2780.87	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
4.80	2383.79	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
4.80	2383.79	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
6.00	1986.70	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
7.20	1589.62	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
8.40	1192.54	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
9.60	795.46	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
9.60	795.46	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
10.80	398.37	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
12.00	1.29	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
13.20	-395.79	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
14.40	-792.87	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
14.40	-792.87	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
15.60	-1189.96	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
16.80	-1587.04	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
18.00	-1984.12	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
19.20	-2381.20	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
19.20	-2381.20	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
20.40	-2778.29	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
21.60	-3175.37	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
22.80	-3572.45	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
24.00	-3886.81	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
24.00	-3886.81	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
25.20	-3572.45	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
26.40	-3175.37	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
27.60	-2778.29	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
28.80	-2381.21	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
28.80	-2381.21	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
30.00	-1984.13	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
31.20	-1587.05	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
32.40	-1189.97	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
33.60	-792.89	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
33.60	-792.89	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
34.80	-395.81	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
36.00	1.27	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
37.20	398.35	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
38.40	795.43	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
38.40	795.43	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
39.60	1192.51	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
40.80	1589.59	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
42.00	1986.68	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
43.20	2383.76	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
43.20	2383.76	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
44.40	2780.84	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
45.60	3177.92	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
46.80	3575.00	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86
48.00	3806.63	0.00	0.00	2585.52	4093.74	-1416.00	-224.49	-642.86

X	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
0.00	4548.60	-306.15	-1049.07	-15399.21	4548.60	658.14	-1049.07	-15399.21
1.20	4548.60	-306.15	-84.15	-13136.06	4548.60	658.14	-84.15	-13136.06
2.40	4548.60	-306.15	666.85	-11232.04	4548.60	658.14	666.85	-11232.04
3.60	4548.60	-306.15	1459.51	-9506.58	4548.60	658.14	1459.51	-9506.58
4.80	4548.60	-306.15	2259.27	-7965.96	4548.60	658.14	2259.27	-7965.96
4.80	4548.60	-306.15	2259.27	-7965.96	4548.60	658.14	2259.27	-7965.96
6.00	4548.60	-306.15	3060.89	-6615.10	4548.60	658.14	3060.89	-6615.10
7.20	4548.60	-306.15	3937.66	-5456.27	4548.60	658.14	3937.66	-5456.27
8.40	4548.60	-306.15	4824.05	-4486.86	4548.60	658.14	4824.05	-4486.86
9.60	4548.60	-306.15	5707.30	-3704.10	4548.60	658.14	5707.30	-3704.10
9.60	4548.60	-306.15	5707.30	-3704.10	4548.60	658.14	5707.30	-3704.10
10.80	4548.60	-306.15	6663.39	-3196.34	4548.60	658.14	6663.39	-3196.34
12.00	4548.60	-306.15	7510.39	-2782.02	4548.60	658.14	7510.39	-2782.02
13.20	4548.60	-306.15	8231.41	-2444.42	4548.60	658.14	8231.41	-2444.42
14.40	4548.60	-306.15	8825.08	-2182.35	4548.60	658.14	8825.08	-2182.35
14.40	4548.60	-306.15	8825.08	-2182.35	4548.60	658.14	8825.08	-2182.35
15.60	4548.60	-306.15	9270.73	-2015.92	4548.60	658.14	9270.73	-2015.92
16.80	4548.60	-306.15	9588.52	-1924.73	4548.60	658.14	9588.52	-1924.73
18.00	4548.60	-306.15	9778.35	-1908.75	4548.60	658.14	9778.35	-1908.75
19.20	4548.60	-306.15	9840.13	-1967.97	4548.60	658.14	9840.13	-1967.97
19.20	4548.60	-306.15	9840.13	-1967.97	4548.60	658.14	9840.13	-1967.97
20.40	4548.60	-306.15	9773.83	-2102.38	4548.60	658.14	9773.83	-2102.38
21.60	4548.60	-306.15	9579.38	-2311.98	4548.60	658.14	9579.38	-2311.98
22.80	4548.60	-306.15	9256.79	-2596.76	4548.60	658.14	9256.79	-2596.76
24.00	4548.60	-306.15	8897.93	-2866.14	4548.60	658.14	8897.93	-2866.14
24.00	4548.60	-306.15	8897.93	-2866.14	4548.60	658.14	8897.93	-2866.14
25.20	4548.60	-306.15	9236.77	-2614.39	4548.60	658.14	9236.77	-2614.39
26.40	4548.60	-306.15	9541.22	-2347.91	4548.60	658.14	9541.22	-2347.91
27.60	4548.60	-306.15	9717.52	-2156.61	4548.60	658.14	9717.52	-2156.61
28.80	4548.60	-306.15	9765.68	-2040.50	4548.60	658.14	9765.68	-2040.50
28.80	4548.60	-306.15	9765.68	-2040.50	4548.60	658.14	9765.68	-2040.50
30.00	4548.60	-306.15	9685.74	-1999.58	4548.60	658.14	9685.74	-1999.58
31.20	4548.60	-306.15	9477.77	-2033.86	4548.60	658.14	9477.77	-2033.86
32.40	4548.60	-306.15	9141.82	-2143.35	4548.60	658.14	9141.82	-2143.35
33.60	4548.60	-306.15	8678.01	-2328.07	4548.60	658.14	8678.01	-2328.07
33.60	4548.60	-306.15	8678.01	-2328.07	4548.60	658.14	8678.01	-2328.07
34.80	4548.60	-306.15	8086.50	-2588.10	4548.60	658.14	8086.50	-2588.10
36.00	4548.60	-306.15	7367.62	-2923.64	4548.60	658.14	7367.62	-2923.64
37.20	4548.60	-306.15	6522.65	-3335.81	4548.60	658.14	6522.65	-3335.81
38.40	4548.60	-306.15	5567.63	-3840.45	4548.60	658.14	5567.63	-3840.45
38.40	4548.60	-306.15	5567.63	-3840.45	4548.60	658.14	5567.63	-3840.45
39.60	4548.60	-306.15	4685.27	-4619.94	4548.60	658.14	4685.27	-4619.94
40.80	4548.60	-306.15	3799.39	-5585.98	4548.60	658.14	3799.39	-5585.98
42.00	4548.60	-306.15	2923.09	-6741.39	4548.60	658.14	2923.09	-6741.39
43.20	4548.60	-306.15	2132.10	-8088.91	4548.60	658.14	2132.10	-8088.91
43.20	4548.60	-306.15	2132.10	-8088.91	4548.60	658.14	2132.10	-8088.91
44.40	4548.60	-306.15	1333.98	-9626.30	4548.60	658.14	1333.98	-9626.30
45.60	4548.60	-306.15	538.95	-11348.67	4548.60	658.14	538.95	-11348.67
46.80	4548.60	-306.15	-210.26	-13249.75	4548.60	658.14	-210.26	-13249.75
48.00	4548.60	-306.15	-1172.65	-15508.55	4548.60	658.14	-1172.65	-15508.55

	X	VANO 8 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE
VANO 8	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22
VANO 8	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22
VANO 8	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22
VANO 8	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22
VANO 8	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22
VANO 8	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22
VANO 8	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22
VANO 8	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23
VANO 8	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23
VANO 8	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23
VANO 8	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23
VANO 8	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23
VANO 8	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23
VANO 8	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23
VANO 8	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23
VANO 8	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23
VANO 8	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23
VANO 8	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23
VANO 8	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24
VANO 8	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24
VANO 8	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24
VANO 8	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24
VANO 8	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24
VANO 8	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24
VANO 8	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24
VANO 8	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24
VANO 8	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24
VANO 8	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24
VANO 8	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24
VANO 8	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24
VANO 8	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24
VANO 8	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25
VANO 8	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25
VANO 8	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25
VANO 8	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25
VANO 8	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25
VANO 8	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25
VANO 8	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25
VANO 8	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25
VANO 8	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25
VANO 8	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25
VANO 8	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25
VANO 8	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25
VANO 8	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26
VANO 8	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26
VANO 8	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26
VANO 8	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26
VANO 8	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26
VANO 8	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26
VANO 8	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26

X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO
0.00	3806.66	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
1.20	3575.03	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
2.40	3177.95	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
3.60	2780.87	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
4.80	2383.79	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
4.80	2383.79	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
6.00	1986.70	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
7.20	1589.62	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
8.40	1192.54	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
9.60	795.46	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
9.60	795.46	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
10.80	398.37	0.00	0.00	2585.52	4093.74		-1323.91	-224.49	-642.86
12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86
48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1323.91	-224.49	-642.86

X	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
0.00	4548.60	-181.83	-1049.07	-15399.21	4548.60	782.46	-1049.07	-15399.21
1.20	4548.60	-181.83	-84.15	-13136.06	4548.60	782.46	-84.15	-13136.06
2.40	4548.60	-181.83	666.85	-11232.04	4548.60	782.46	666.85	-11232.04
3.60	4548.60	-181.83	1459.51	-9506.58	4548.60	782.46	1459.51	-9506.58
4.80	4548.60	-181.83	2259.27	-7965.96	4548.60	782.46	2259.27	-7965.96
4.80	4548.60	-181.83	2259.27	-7965.96	4548.60	782.46	2259.27	-7965.96
6.00	4548.60	-181.83	3060.89	-6615.10	4548.60	782.46	3060.89	-6615.10
7.20	4548.60	-181.83	3937.66	-5456.27	4548.60	782.46	3937.66	-5456.27
8.40	4548.60	-181.83	4824.05	-4486.86	4548.60	782.46	4824.05	-4486.86
9.60	4548.60	-181.83	5707.30	-3704.10	4548.60	782.46	5707.30	-3704.10
9.60	4548.60	-181.83	5707.30	-3704.10	4548.60	782.46	5707.30	-3704.10
10.80	4548.60	-181.83	6663.39	-3196.34	4548.60	782.46	6663.39	-3196.34
12.00	3898.80	-181.83	7510.39	-2782.02	3898.80	782.46	7510.39	-2782.02
13.20	3898.80	-181.83	8231.41	-2444.42	3898.80	782.46	8231.41	-2444.42
14.40	3898.80	-181.83	8825.08	-2182.35	3898.80	782.46	8825.08	-2182.35
14.40	3898.80	-181.83	8825.08	-2182.35	3898.80	782.46	8825.08	-2182.35
15.60	3898.80	-181.83	9270.73	-2015.92	3898.80	782.46	9270.73	-2015.92
16.80	3898.80	-181.83	9588.52	-1924.73	3898.80	782.46	9588.52	-1924.73
18.00	3898.80	-181.83	9778.35	-1908.75	3898.80	782.46	9778.35	-1908.75
19.20	3898.80	-181.83	9840.13	-1967.97	3898.80	782.46	9840.13	-1967.97
19.20	3898.80	-181.83	9840.13	-1967.97	3898.80	782.46	9840.13	-1967.97
20.40	3898.80	-181.83	9773.83	-2102.38	3898.80	782.46	9773.83	-2102.38
21.60	3898.80	-181.83	9579.38	-2311.98	3898.80	782.46	9579.38	-2311.98
22.80	3898.80	-181.83	9256.79	-2596.76	3898.80	782.46	9256.79	-2596.76
24.00	3898.80	-181.83	8897.93	-2866.14	3898.80	782.46	8897.93	-2866.14
24.00	3898.80	-181.83	8897.93	-2866.14	3898.80	782.46	8897.93	-2866.14
25.20	3898.80	-181.83	9236.77	-2614.39	3898.80	782.46	9236.77	-2614.39
26.40	3898.80	-181.83	9541.22	-2347.91	3898.80	782.46	9541.22	-2347.91
27.60	3898.80	-181.83	9717.52	-2156.61	3898.80	782.46	9717.52	-2156.61
28.80	3898.80	-181.83	9765.68	-2040.50	3898.80	782.46	9765.68	-2040.50
28.80	3898.80	-181.83	9765.68	-2040.50	3898.80	782.46	9765.68	-2040.50
30.00	3898.80	-181.83	9685.74	-1999.58	3898.80	782.46	9685.74	-1999.58
31.20	3898.80	-181.83	9477.77	-2033.86	3898.80	782.46	9477.77	-2033.86
32.40	3898.80	-181.83	9141.82	-2143.35	3898.80	782.46	9141.82	-2143.35
33.60	3898.80	-181.83	8678.01	-2328.07	3898.80	782.46	8678.01	-2328.07
33.60	3898.80	-181.83	8678.01	-2328.07	3898.80	782.46	8678.01	-2328.07
34.80	3898.80	-181.83	8086.50	-2588.10	3898.80	782.46	8086.50	-2588.10
36.00	3898.80	-181.83	7367.62	-2923.64	3898.80	782.46	7367.62	-2923.64
37.20	3898.80	-181.83	6522.65	-3335.81	3898.80	782.46	6522.65	-3335.81
38.40	3898.80	-181.83	5567.63	-3840.45	3898.80	782.46	5567.63	-3840.45
38.40	3898.80	-181.83	5567.63	-3840.45	3898.80	782.46	5567.63	-3840.45
39.60	3898.80	-181.83	4685.27	-4619.94	3898.80	782.46	4685.27	-4619.94
40.80	3898.80	-181.83	3799.39	-5585.98	3898.80	782.46	3799.39	-5585.98
42.00	3898.80	-181.83	2923.09	-6741.39	3898.80	782.46	2923.09	-6741.39
43.20	3898.80	-181.83	2132.10	-8088.91	3898.80	782.46	2132.10	-8088.91
43.20	3898.80	-181.83	2132.10	-8088.91	3898.80	782.46	2132.10	-8088.91
44.40	3898.80	-181.83	1333.98	-9626.30	3898.80	782.46	1333.98	-9626.30
45.60	3898.80	-181.83	538.95	-11348.67	3898.80	782.46	538.95	-11348.67
46.80	3898.80	-181.83	-210.26	-13249.75	3898.80	782.46	210.26	-13249.75
48.00	3898.80	-181.83	-1172.65	-15508.55	3898.80	782.46	-1172.65	-15508.55

	X	VANO 9 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO: AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO: AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 9	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	-1049.07	-15399.21	3898.80	907.29	-1049.07	-15399.21
VANO 9	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	-84.15	-13136.06	3898.80	907.29	-84.15	-13136.06
VANO 9	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	666.85	-11232.04	3898.80	907.29	666.85	-11232.04
VANO 9	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	1459.51	-9506.58	3898.80	907.29	1459.51	-9506.58
VANO 9	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	2259.27	-7965.96	3898.80	907.29	2259.27	-7965.96
VANO 9	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	2259.27	-7965.96	3898.80	907.29	2259.27	-7965.96
VANO 9	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	3060.89	-6615.10	3898.80	907.29	3060.89	-6615.10
VANO 9	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	3937.66	-5456.27	3898.80	907.29	3937.66	-5456.27
VANO 9	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	4824.05	-4486.86	3898.80	907.29	4824.05	-4486.86
VANO 9	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	5707.30	-3704.10	3898.80	907.29	5707.30	-3704.10
VANO 9	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	5707.30	-3704.10	3898.80	907.29	5707.30	-3704.10
VANO 9	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	6663.39	-3196.34	3898.80	907.29	6663.39	-3196.34
VANO 9	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	7510.39	-2782.02	3898.80	907.29	7510.39	-2782.02
VANO 9	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	8231.41	-2444.42	3898.80	907.29	8231.41	-2444.42
VANO 9	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	8825.08	-2182.35	3898.80	907.29	8825.08	-2182.35
VANO 9	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	8825.08	-2182.35	3898.80	907.29	8825.08	-2182.35
VANO 9	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9270.73	-2015.92	3898.80	907.29	9270.73	-2015.92
VANO 9	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9588.52	-1924.73	3898.80	907.29	9588.52	-1924.73
VANO 9	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9778.35	-1908.75	3898.80	907.29	9778.35	-1908.75
VANO 9	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9840.13	-1967.97	3898.80	907.29	9840.13	-1967.97
VANO 9	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9840.13	-1967.97	3898.80	907.29	9840.13	-1967.97
VANO 9	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9773.83	-2102.38	3898.80	907.29	9773.83	-2102.38
VANO 9	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9579.38	-2311.98	3898.80	907.29	9579.38	-2311.98
VANO 9	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9256.79	-2596.76	3898.80	907.29	9256.79	-2596.76
VANO 9	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	8897.93	-2866.14	3898.80	907.29	8897.93	-2866.14
VANO 9	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	8897.93	-2866.14	3898.80	907.29	8897.93	-2866.14
VANO 9	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9236.77	-2614.39	3898.80	907.29	9236.77	-2614.39
VANO 9	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9541.22	-2347.91	3898.80	907.29	9541.22	-2347.91
VANO 9	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9717.52	-2156.61	3898.80	907.29	9717.52	-2156.61
VANO 9	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9765.68	-2040.50	3898.80	907.29	9765.68	-2040.50
VANO 9	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9765.68	-2040.50	3898.80	907.29	9765.68	-2040.50
VANO 9	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9685.74	-1999.58	3898.80	907.29	9685.74	-1999.58
VANO 9	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9477.77	-2033.86	3898.80	907.29	9477.77	-2033.86
VANO 9	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	9141.82	-2143.35	3898.80	907.29	9141.82	-2143.35
VANO 9	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	8678.01	-2328.07	3898.80	907.29	8678.01	-2328.07
VANO 9	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	8678.01	-2328.07	3898.80	907.29	8678.01	-2328.07
VANO 9	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	8086.50	-2588.10	3898.80	907.29	8086.50	-2588.10
VANO 9	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	7367.62	-2923.64	3898.80	907.29	7367.62	-2923.64
VANO 9	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	6522.65	-3335.81	3898.80	907.29	6522.65	-3335.81
VANO 9	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	5567.63	-3840.45	3898.80	907.29	5567.63	-3840.45
VANO 9	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	5567.63	-3840.45	3898.80	907.29	5567.63	-3840.45
VANO 9	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	4685.27	-4619.94	3898.80	907.29	4685.27	-4619.94
VANO 9	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	3799.39	-5585.98	3898.80	907.29	3799.39	-5585.98
VANO 9	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	2923.09	-6741.39	3898.80	907.29	2923.09	-6741.39
VANO 9	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	2132.10	-8088.91	3898.80	907.29	2132.10	-8088.91
VANO 9	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	2132.10	-8088.91	3898.80	907.29	2132.10	-8088.91
VANO 9	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	1333.98	-9626.30	3898.80	907.29	1333.98	-9626.30
VANO 9	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	538.95	-11348.67	3898.80	907.29	538.95	-11348.67
VANO 9	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	-210.26	-13249.75	3898.80	907.29	-210.26	-13249.75
VANO 9	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1231.44	-224.49	-642.86	3898.80	-57.00	-1172.65	-15508.55	3898.80	907.29	-1172.65	-15508.55

	X	VANO 10 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO: AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO: AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 10	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	-1049.07	-15399.21	3898.80	1031.24	-1049.07	-15399.21
VANO 10	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	-84.15	-13136.06	3898.80	1031.24	-84.15	-13136.06
VANO 10	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	666.85	-11232.04	3898.80	1031.24	666.85	-11232.04
VANO 10	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	1459.51	-9506.58	3898.80	1031.24	1459.51	-9506.58
VANO 10	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	2259.27	-7965.96	3898.80	1031.24	2259.27	-7965.96
VANO 10	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	2259.27	-7965.96	3898.80	1031.24	2259.27	-7965.96
VANO 10	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	3060.89	-6615.10	3898.80	1031.24	3060.89	-6615.10
VANO 10	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	3937.66	-5456.27	3898.80	1031.24	3937.66	-5456.27
VANO 10	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	4824.05	-4486.86	3898.80	1031.24	4824.05	-4486.86
VANO 10	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	5707.30	-3704.10	3898.80	1031.24	5707.30	-3704.10
VANO 10	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	5707.30	-3704.10	3898.80	1031.24	5707.30	-3704.10
VANO 10	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	6663.39	-3196.34	3898.80	1031.24	6663.39	-3196.34
VANO 10	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	7510.39	-2782.02	3898.80	1031.24	7510.39	-2782.02
VANO 10	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	8231.41	-2444.42	3898.80	1031.24	8231.41	-2444.42
VANO 10	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	8825.08	-2182.35	3898.80	1031.24	8825.08	-2182.35
VANO 10	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	8825.08	-2182.35	3898.80	1031.24	8825.08	-2182.35
VANO 10	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9270.73	-2015.92	3898.80	1031.24	9270.73	-2015.92
VANO 10	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9588.52	-1924.73	3898.80	1031.24	9588.52	-1924.73
VANO 10	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9778.35	-1908.75	3898.80	1031.24	9778.35	-1908.75
VANO 10	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9840.13	-1967.97	3898.80	1031.24	9840.13	-1967.97
VANO 10	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9840.13	-1967.97	3898.80	1031.24	9840.13	-1967.97
VANO 10	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9773.83	-2102.38	3898.80	1031.24	9773.83	-2102.38
VANO 10	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9579.38	-2311.98	3898.80	1031.24	9579.38	-2311.98
VANO 10	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9256.79	-2596.76	3898.80	1031.24	9256.79	-2596.76
VANO 10	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	8897.93	-2866.14	3898.80	1031.24	8897.93	-2866.14
VANO 10	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	8897.93	-2866.14	3898.80	1031.24	8897.93	-2866.14
VANO 10	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9236.77	-2614.39	3898.80	1031.24	9236.77	-2614.39
VANO 10	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9541.22	-2347.91	3898.80	1031.24	9541.22	-2347.91
VANO 10	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9717.52	-2156.61	3898.80	1031.24	9717.52	-2156.61
VANO 10	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9765.68	-2040.50	3898.80	1031.24	9765.68	-2040.50
VANO 10	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9765.68	-2040.50	3898.80	1031.24	9765.68	-2040.50
VANO 10	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9685.74	-1999.58	3898.80	1031.24	9685.74	-1999.58
VANO 10	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9477.77	-2033.86	3898.80	1031.24	9477.77	-2033.86
VANO 10	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	9141.82	-2143.35	3898.80	1031.24	9141.82	-2143.35
VANO 10	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	8678.01	-2328.07	3898.80	1031.24	8678.01	-2328.07
VANO 10	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	8678.01	-2328.07	3898.80	1031.24	8678.01	-2328.07
VANO 10	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	8086.50	-2588.10	3898.80	1031.24	8086.50	-2588.10
VANO 10	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	7367.62	-2923.64	3898.80	1031.24	7367.62	-2923.64
VANO 10	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	6522.65	-3335.81	3898.80	1031.24	6522.65	-3335.81
VANO 10	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	5567.63	-3840.45	3898.80	1031.24	5567.63	-3840.45
VANO 10	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	5567.63	-3840.45	3898.80	1031.24	5567.63	-3840.45
VANO 10	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	4685.27	-4619.94	3898.80	1031.24	4685.27	-4619.94
VANO 10	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	3799.39	-5585.98	3898.80	1031.24	3799.39	-5585.98
VANO 10	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	2923.09	-6741.39	3898.80	1031.24	2923.09	-6741.39
VANO 10	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	2132.10	-8088.91	3898.80	1031.24	2132.10	-8088.91
VANO 10	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	2132.10	-8088.91	3898.80	1031.24	2132.10	-8088.91
VANO 10	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	1333.98	-9626.30	3898.80	1031.24	1333.98	-9626.30
VANO 10	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	538.95	-11348.67	3898.80	1031.24	538.95	-11348.67
VANO 10	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	-210.26	-13249.75	3898.80	1031.24	-210.26	-13249.75
VANO 10	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1139.63	-224.49	-642.86	3898.80	66.95	-1172.65	-15508.55	3898.80	1031.24	-1172.65	-15508.55

	X	VANO 11 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO				ESFUERZOS EN ROTURA SIN FRENADO			
																		AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 11	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	-1049.07	-15399.21	3898.80	1156.32	-1049.07	-15399.21
VANO 11	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	-84.15	-13136.06	3898.80	1156.32	-84.15	-13136.06
VANO 11	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	666.85	-11232.04	3898.80	1156.32	666.85	-11232.04
VANO 11	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	1459.51	-9506.58	3898.80	1156.32	1459.51	-9506.58
VANO 11	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	2259.27	-7965.96	3898.80	1156.32	2259.27	-7965.96
VANO 11	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	2259.27	-7965.96	3898.80	1156.32	2259.27	-7965.96
VANO 11	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	3060.89	-6615.10	3898.80	1156.32	3060.89	-6615.10
VANO 11	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	3937.66	-5456.27	3898.80	1156.32	3937.66	-5456.27
VANO 11	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	4824.05	-4486.86	3898.80	1156.32	4824.05	-4486.86
VANO 11	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	5707.30	-3704.10	3898.80	1156.32	5707.30	-3704.10
VANO 11	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	5707.30	-3704.10	3898.80	1156.32	5707.30	-3704.10
VANO 11	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	6663.39	-3196.34	3898.80	1156.32	6663.39	-3196.34
VANO 11	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	7510.39	-2782.02	3898.80	1156.32	7510.39	-2782.02
VANO 11	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	8231.41	-2444.42	3898.80	1156.32	8231.41	-2444.42
VANO 11	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	8825.08	-2182.35	3898.80	1156.32	8825.08	-2182.35
VANO 11	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	8825.08	-2182.35	3898.80	1156.32	8825.08	-2182.35
VANO 11	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9270.73	-2015.92	3898.80	1156.32	9270.73	-2015.92
VANO 11	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9588.52	-1924.73	3898.80	1156.32	9588.52	-1924.73
VANO 11	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9778.35	-1908.75	3898.80	1156.32	9778.35	-1908.75
VANO 11	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9840.13	-1967.97	3898.80	1156.32	9840.13	-1967.97
VANO 11	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9840.13	-1967.97	3898.80	1156.32	9840.13	-1967.97
VANO 11	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9773.83	-2102.38	3898.80	1156.32	9773.83	-2102.38
VANO 11	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9579.38	-2311.98	3898.80	1156.32	9579.38	-2311.98
VANO 11	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9256.79	-2596.76	3898.80	1156.32	9256.79	-2596.76
VANO 11	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	8897.93	-2866.14	3898.80	1156.32	8897.93	-2866.14
VANO 11	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	8897.93	-2866.14	3898.80	1156.32	8897.93	-2866.14
VANO 11	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9236.77	-2614.39	3898.80	1156.32	9236.77	2614.39
VANO 11	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9541.22	-2347.91	3898.80	1156.32	9541.22	-2347.91
VANO 11	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9717.52	-2156.61	3898.80	1156.32	9717.52	-2156.61
VANO 11	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9765.68	-2040.50	3898.80	1156.32	9765.68	-2040.50
VANO 11	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9765.68	-2040.50	3898.80	1156.32	9765.68	-2040.50
VANO 11	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9685.74	-1999.58	3898.80	1156.32	9685.74	1999.58
VANO 11	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9477.77	-2033.86	3898.80	1156.32	9477.77	-2033.86
VANO 11	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	9141.82	-2143.35	3898.80	1156.32	9141.82	-2143.35
VANO 11	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	8678.01	-2328.07	3898.80	1156.32	8678.01	-2328.07
VANO 11	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	8678.01	-2328.07	3898.80	1156.32	8678.01	-2328.07
VANO 11	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	8086.50	-2588.10	3898.80	1156.32	8086.50	-2588.10
VANO 11	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	7367.62	-2923.64	3898.80	1156.32	7367.62	-2923.64
VANO 11	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	6522.65	-3335.81	3898.80	1156.32	6522.65	-3335.81
VANO 11	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	5567.63	-3840.45	3898.80	1156.32	5567.63	-3840.45
VANO 11	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	5567.63	-3840.45	3898.80	1156.32	5567.63	-3840.45
VANO 11	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	4685.27	-4619.94	3898.80	1156.32	4685.27	-4619.94
VANO 11	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	3799.39	-5585.98	3898.80	1156.32	3799.39	-5585.98
VANO 11	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	2923.09	-6741.39	3898.80	1156.32	2923.09	-6741.39
VANO 11	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	2132.10	-8088.91	3898.80	1156.32	2132.10	-8088.91
VANO 11	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	2132.10	-8088.91	3898.80	1156.32	2132.10	-8088.91
VANO 11	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	1333.98	-9626.30	3898.80	1156.32	1333.98	-9626.30
VANO 11	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	538.95	-11348.67	3898.80	1156.32	538.95	-11348.67
VANO 11	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	-210.26	-13249.75	3898.80	1156.32	-210.26	-13249.75
VANO 11	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-1046.98	-224.49	-642.86	3898.80	192.03	-1172.65	-15508.55	3898.80	1156.32	-1172.65	-15508.55

	X	VANO 12 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO				ESFUERZOS EN ROTURA SIN FRENADO			
																		AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 12	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	-1049.07	-15399.21	3898.80	1280.39	-1049.07	-15399.21
VANO 12	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	-84.15	-13136.06	3898.80	1280.39	-84.15	-13136.06
VANO 12	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	666.85	-11232.04	3898.80	1280.39	666.85	-11232.04
VANO 12	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	1459.51	-9506.58	3898.80	1280.39	1459.51	-9506.58
VANO 12	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	2259.27	-7965.96	3898.80	1280.39	2259.27	-7965.96
VANO 12	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	2259.27	-7965.96	3898.80	1280.39	2259.27	-7965.96
VANO 12	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	3060.89	-6615.10	3898.80	1280.39	3060.89	-6615.10
VANO 12	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	3937.66	-5456.27	3898.80	1280.39	3937.66	-5456.27
VANO 12	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	4824.05	-4486.86	3898.80	1280.39	4824.05	-4486.86
VANO 12	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	5707.30	-3704.10	3898.80	1280.39	5707.30	-3704.10
VANO 12	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	5707.30	-3704.10	3898.80	1280.39	5707.30	-3704.10
VANO 12	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	6663.39	-3196.34	3898.80	1280.39	6663.39	-3196.34
VANO 12	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	7510.39	-2782.02	3898.80	1280.39	7510.39	-2782.02
VANO 12	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	8231.41	-2444.42	3898.80	1280.39	8231.41	-2444.42
VANO 12	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	8825.08	-2182.35	3898.80	1280.39	8825.08	-2182.35
VANO 12	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	8825.08	-2182.35	3898.80	1280.39	8825.08	-2182.35
VANO 12	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9270.73	-2015.92	3898.80	1280.39	9270.73	-2015.92
VANO 12	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9588.52	-1924.73	3898.80	1280.39	9588.52	-1924.73
VANO 12	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9778.35	-1908.75	3898.80	1280.39	9778.35	-1908.75
VANO 12	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9840.13	-1967.97	3898.80	1280.39	9840.13	-1967.97
VANO 12	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9840.13	-1967.97	3898.80	1280.39	9840.13	-1967.97
VANO 12	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9773.83	-2102.38	3898.80	1280.39	9773.83	-2102.38
VANO 12	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9579.38	-2311.98	3898.80	1280.39	9579.38	-2311.98
VANO 12	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9256.79	-2596.76	3898.80	1280.39	9256.79	-2596.76
VANO 12	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	8897.93	-2866.14	3898.80	1280.39	8897.93	-2866.14
VANO 12	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	8897.93	-2866.14	3898.80	1280.39	8897.93	-2866.14
VANO 12	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9236.77	-2614.39	3898.80	1280.39	9236.77	-2614.39
VANO 12	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9541.22	-2347.91	3898.80	1280.39	9541.22	-2347.91
VANO 12	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9717.52	-2156.61	3898.80	1280.39	9717.52	-2156.61
VANO 12	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9765.68	-2040.50	3898.80	1280.39	9765.68	-2040.50
VANO 12	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9765.68	-2040.50	3898.80	1280.39	9765.68	-2040.50
VANO 12	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9685.74	-1999.58	3898.80	1280.39	9685.74	-1999.58
VANO 12	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9477.77	-2033.86	3898.80	1280.39	9477.77	-2033.86
VANO 12	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	9141.82	-2143.35	3898.80	1280.39	9141.82	-2143.35
VANO 12	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	8678.01	-2328.07	3898.80	1280.39	8678.01	-2328.07
VANO 12	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	8678.01	-2328.07	3898.80	1280.39	8678.01	-2328.07
VANO 12	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	8086.50	-2588.10	3898.80	1280.39	8086.50	-2588.10
VANO 12	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	7367.62	-2923.64	3898.80	1280.39	7367.62	-2923.64
VANO 12	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	6522.65	-3335.81	3898.80	1280.39	6522.65	-3335.81
VANO 12	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	5567.63	-3840.45	3898.80	1280.39	5567.63	-3840.45
VANO 12	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	5567.63	-3840.45	3898.80	1280.39	5567.63	-3840.45
VANO 12	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	4685.27	-4619.94	3898.80	1280.39	4685.27	-4619.94
VANO 12	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	3799.39	-5585.98	3898.80	1280.39	3799.39	-5585.98
VANO 12	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	2923.09	-6741.39	3898.80	1280.39	2923.09	-6741.39
VANO 12	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	2132.10	-8088.91	3898.80	1280.39	2132.10	-8088.91
VANO 12	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	2132.10	-8088.91	3898.80	1280.39	2132.10	-8088.91
VANO 12	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	1333.98	-9626.30	3898.80	1280.39	1333.98	-9626.30
VANO 12	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	538.95	-11348.67	3898.80	1280.39	538.95	-11348.67
VANO 12	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	-210.26	-13249.75	3898.80	1280.39	-210.26	-13249.75
VANO 12	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-955.07	-224.49	-642.86	3898.80	316.10	-1172.65	-15508.55	3898.80	1280.39	-1172.65	-15508.55

	X	VANO 13 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 13	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	-1049.07	-15399.21	3898.80	1404.85	-1049.07	-15399.21
VANO 13	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	-84.15	-13136.06	3898.80	1404.85	-84.15	-13136.06
VANO 13	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	666.85	-11232.04	3898.80	1404.85	666.85	-11232.04
VANO 13	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	1459.51	-9506.58	3898.80	1404.85	1459.51	-9506.58
VANO 13	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	2259.27	-7965.96	3898.80	1404.85	2259.27	-7965.96
VANO 13	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	2259.27	-7965.96	3898.80	1404.85	2259.27	-7965.96
VANO 13	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	3060.89	-6615.10	3898.80	1404.85	3060.89	-6615.10
VANO 13	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	3937.66	-5456.27	3898.80	1404.85	3937.66	-5456.27
VANO 13	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	4824.05	-4486.86	3898.80	1404.85	4824.05	-4486.86
VANO 13	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	5707.30	-3704.10	3898.80	1404.85	5707.30	-3704.10
VANO 13	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	5707.30	-3704.10	3898.80	1404.85	5707.30	-3704.10
VANO 13	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	6663.39	-3196.34	3898.80	1404.85	6663.39	-3196.34
VANO 13	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	7510.39	-2782.02	3898.80	1404.85	7510.39	-2782.02
VANO 13	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	8231.41	-2444.42	3898.80	1404.85	8231.41	-2444.42
VANO 13	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	8825.08	-2182.35	3898.80	1404.85	8825.08	-2182.35
VANO 13	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	8825.08	-2182.35	3898.80	1404.85	8825.08	-2182.35
VANO 13	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9270.73	-2015.92	3898.80	1404.85	9270.73	-2015.92
VANO 13	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9588.52	-1924.73	3898.80	1404.85	9588.52	-1924.73
VANO 13	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9778.35	-1908.75	3898.80	1404.85	9778.35	-1908.75
VANO 13	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9840.13	-1967.97	3898.80	1404.85	9840.13	-1967.97
VANO 13	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9840.13	-1967.97	3898.80	1404.85	9840.13	-1967.97
VANO 13	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9773.83	-2102.38	3898.80	1404.85	9773.83	-2102.38
VANO 13	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9579.38	-2311.98	3898.80	1404.85	9579.38	-2311.98
VANO 13	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9256.79	-2596.76	3898.80	1404.85	9256.79	-2596.76
VANO 13	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	8897.93	-2866.14	3898.80	1404.85	8897.93	-2866.14
VANO 13	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	8897.93	-2866.14	3898.80	1404.85	8897.93	-2866.14
VANO 13	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9236.77	-2614.39	3898.80	1404.85	9236.77	-2614.39
VANO 13	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9541.22	-2347.91	3898.80	1404.85	9541.22	-2347.91
VANO 13	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9717.52	-2156.61	3898.80	1404.85	9717.52	-2156.61
VANO 13	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9765.68	-2040.50	3898.80	1404.85	9765.68	-2040.50
VANO 13	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9765.68	-2040.50	3898.80	1404.85	9765.68	-2040.50
VANO 13	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9685.74	-1999.58	3898.80	1404.85	9685.74	-1999.58
VANO 13	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9477.77	-2033.86	3898.80	1404.85	9477.77	-2033.86
VANO 13	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	9141.82	-2143.35	3898.80	1404.85	9141.82	-2143.35
VANO 13	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	8678.01	-2328.07	3898.80	1404.85	8678.01	-2328.07
VANO 13	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	8678.01	-2328.07	3898.80	1404.85	8678.01	-2328.07
VANO 13	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	8086.50	-2588.10	3898.80	1404.85	8086.50	-2588.10
VANO 13	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	7367.62	-2923.64	3898.80	1404.85	7367.62	-2923.64
VANO 13	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	6522.65	-3335.81	3898.80	1404.85	6522.65	-3335.81
VANO 13	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	5567.63	-3840.45	3898.80	1404.85	5567.63	-3840.45
VANO 13	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	5567.63	-3840.45	3898.80	1404.85	5567.63	-3840.45
VANO 13	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	4685.27	-4619.94	3898.80	1404.85	4685.27	-4619.94
VANO 13	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	3799.39	-5585.98	3898.80	1404.85	3799.39	-5585.98
VANO 13	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	2923.09	-6741.39	3898.80	1404.85	2923.09	-6741.39
VANO 13	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	2132.10	-8088.91	3898.80	1404.85	2132.10	-8088.91
VANO 13	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	2132.10	-8088.91	3898.80	1404.85	2132.10	-8088.91
VANO 13	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	1333.98	-9626.30	3898.80	1404.85	1333.98	-9626.30
VANO 13	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	538.95	-11348.67	3898.80	1404.85	538.95	-11348.67
VANO 13	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	-210.26	-13249.75	3898.80	1404.85	-210.26	-13249.75
VANO 13	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-862.88	-224.49	-642.86	3898.80	440.56	-1172.65	-15508.55	3898.80	1404.85	-1172.65	-15508.55

	X	VANO 14 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 14	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	-1049.07	-15399.21	3898.80	1529.60	-1049.07	-15399.21
VANO 14	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	-84.15	-13136.06	3898.80	1529.60	-84.15	-13136.06
VANO 14	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	666.85	-11232.04	3898.80	1529.60	666.85	-11232.04
VANO 14	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	1459.51	-9506.58	3898.80	1529.60	1459.51	-9506.58
VANO 14	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	2259.27	-7965.96	3898.80	1529.60	2259.27	-7965.96
VANO 14	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	2259.27	-7965.96	3898.80	1529.60	2259.27	-7965.96
VANO 14	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	3060.89	-6615.10	3898.80	1529.60	3060.89	-6615.10
VANO 14	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	3937.66	-5456.27	3898.80	1529.60	3937.66	-5456.27
VANO 14	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	4824.05	-4486.86	3898.80	1529.60	4824.05	-4486.86
VANO 14	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	5707.30	-3704.10	3898.80	1529.60	5707.30	-3704.10
VANO 14	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	5707.30	-3704.10	3898.80	1529.60	5707.30	-3704.10
VANO 14	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	6663.39	-3196.34	3898.80	1529.60	6663.39	-3196.34
VANO 14	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	7510.39	-2782.02	3898.80	1529.60	7510.39	-2782.02
VANO 14	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	8231.41	-2444.42	3898.80	1529.60	8231.41	-2444.42
VANO 14	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	8825.08	-2182.35	3898.80	1529.60	8825.08	-2182.35
VANO 14	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	8825.08	-2182.35	3898.80	1529.60	8825.08	-2182.35
VANO 14	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9270.73	-2015.92	3898.80	1529.60	9270.73	-2015.92
VANO 14	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9588.52	-1924.73	3898.80	1529.60	9588.52	-1924.73
VANO 14	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9778.35	-1908.75	3898.80	1529.60	9778.35	-1908.75
VANO 14	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9840.13	-1967.97	3898.80	1529.60	9840.13	-1967.97
VANO 14	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9840.13	-1967.97	3898.80	1529.60	9840.13	-1967.97
VANO 14	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9773.83	-2102.38	3898.80	1529.60	9773.83	-2102.38
VANO 14	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9579.38	-2311.98	3898.80	1529.60	9579.38	-2311.98
VANO 14	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9256.79	-2596.76	3898.80	1529.60	9256.79	-2596.76
VANO 14	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	8897.93	-2866.14	3898.80	1529.60	8897.93	-2866.14
VANO 14	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	8897.93	-2866.14	3898.80	1529.60	8897.93	-2866.14
VANO 14	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9236.77	-2614.39	3898.80	1529.60	9236.77	-2614.39
VANO 14	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9541.22	-2347.91	3898.80	1529.60	9541.22	-2347.91
VANO 14	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9717.52	-2156.61	3898.80	1529.60	9717.52	-2156.61
VANO 14	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9765.68	-2040.50	3898.80	1529.60	9765.68	-2040.50
VANO 14	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9765.68	-2040.50	3898.80	1529.60	9765.68	-2040.50
VANO 14	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9685.74	-1999.58	3898.80	1529.60	9685.74	-1999.58
VANO 14	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9477.77	-2033.86	3898.80	1529.60	9477.77	-2033.86
VANO 14	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	9141.82	-2143.35	3898.80	1529.60	9141.82	-2143.35
VANO 14	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	8678.01	-2328.07	3898.80	1529.60	8678.01	-2328.07
VANO 14	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	8678.01	-2328.07	3898.80	1529.60	8678.01	-2328.07
VANO 14	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	8086.50	-2588.10	3898.80	1529.60	8086.50	-2588.10
VANO 14	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	7367.62	-2923.64	3898.80	1529.60	7367.62	-2923.64
VANO 14	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	6522.65	-3335.81	3898.80	1529.60	6522.65	-3335.81
VANO 14	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	5567.63	-3840.45	3898.80	1529.60	5567.63	-3840.45
VANO 14	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	5567.63	-3840.45	3898.80	1529.60	5567.63	-3840.45
VANO 14	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	4685.27	-4619.94	3898.80	1529.60	4685.27	-4619.94
VANO 14	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	3799.39	-5585.98	3898.80	1529.60	3799.39	-5585.98
VANO 14	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	2923.09	-6741.39	3898.80	1529.60	2923.09	-6741.39
VANO 14	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	2132.10	-8088.91	3898.80	1529.60	2132.10	-8088.91
VANO 14	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	2132.10	-8088.91	3898.80	1529.60	2132.10	-8088.91
VANO 14	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	1333.98	-9626.30	3898.80	1529.60	1333.98	-9626.30
VANO 14	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	538.95	-11348.67	3898.80	1529.60	538.95	-11348.67
VANO 14	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	-210.26	-13249.75	3898.80	1529.60	-210.26	-13249.75
VANO 14	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-770.47	-224.49	-642.86	3898.80	565.31	-1172.65	-15508.55	3898.80	1529.60	-1172.65	-15508.55

	X	VANO 15 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 15	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	-1049.07	-15399.21	3898.80	1653.78	-1049.07	-15399.21
VANO 15	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	-84.15	-13136.06	3898.80	1653.78	-84.15	-13136.06
VANO 15	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	666.85	-11232.04	3898.80	1653.78	666.85	-11232.04
VANO 15	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	1459.51	-9506.58	3898.80	1653.78	1459.51	-9506.58
VANO 15	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	2259.27	-7965.96	3898.80	1653.78	2259.27	-7965.96
VANO 15	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	2259.27	-7965.96	3898.80	1653.78	2259.27	-7965.96
VANO 15	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	3060.89	-6615.10	3898.80	1653.78	3060.89	-6615.10
VANO 15	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	3937.66	-5456.27	3898.80	1653.78	3937.66	-5456.27
VANO 15	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	4824.05	-4486.86	3898.80	1653.78	4824.05	-4486.86
VANO 15	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	5707.30	-3704.10	3898.80	1653.78	5707.30	-3704.10
VANO 15	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	5707.30	-3704.10	3898.80	1653.78	5707.30	-3704.10
VANO 15	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	6663.39	-3196.34	3898.80	1653.78	6663.39	-3196.34
VANO 15	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	7510.39	-2782.02	3898.80	1653.78	7510.39	-2782.02
VANO 15	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	8231.41	-2444.42	3898.80	1653.78	8231.41	-2444.42
VANO 15	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	8825.08	-2182.35	3898.80	1653.78	8825.08	-2182.35
VANO 15	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	8825.08	-2182.35	3898.80	1653.78	8825.08	-2182.35
VANO 15	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9270.73	-2015.92	3898.80	1653.78	9270.73	-2015.92
VANO 15	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9588.52	-1924.73	3898.80	1653.78	9588.52	-1924.73
VANO 15	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9778.35	-1908.75	3898.80	1653.78	9778.35	-1908.75
VANO 15	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9840.13	-1967.97	3898.80	1653.78	9840.13	-1967.97
VANO 15	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9840.13	-1967.97	3898.80	1653.78	9840.13	-1967.97
VANO 15	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9773.83	-2102.38	3898.80	1653.78	9773.83	-2102.38
VANO 15	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9579.38	-2311.98	3898.80	1653.78	9579.38	-2311.98
VANO 15	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9256.79	-2596.76	3898.80	1653.78	9256.79	-2596.76
VANO 15	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	8897.93	-2866.14	3898.80	1653.78	8897.93	-2866.14
VANO 15	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	8897.93	-2866.14	3898.80	1653.78	8897.93	-2866.14
VANO 15	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9236.77	-2614.39	3898.80	1653.78	9236.77	-2614.39
VANO 15	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9541.22	-2347.91	3898.80	1653.78	9541.22	-2347.91
VANO 15	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9717.52	-2156.61	3898.80	1653.78	9717.52	-2156.61
VANO 15	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9765.68	-2040.50	3898.80	1653.78	9765.68	-2040.50
VANO 15	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9765.68	-2040.50	3898.80	1653.78	9765.68	-2040.50
VANO 15	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9685.74	-1999.58	3898.80	1653.78	9685.74	-1999.58
VANO 15	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9477.77	-2033.86	3898.80	1653.78	9477.77	-2033.86
VANO 15	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	9141.82	-2143.35	3898.80	1653.78	9141.82	-2143.35
VANO 15	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	8678.01	-2328.07	3898.80	1653.78	8678.01	-2328.07
VANO 15	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	8678.01	-2328.07	3898.80	1653.78	8678.01	-2328.07
VANO 15	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	8086.50	-2588.10	3898.80	1653.78	8086.50	-2588.10
VANO 15	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	7367.62	-2923.64	3898.80	1653.78	7367.62	-2923.64
VANO 15	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	6522.65	-3335.81	3898.80	1653.78	6522.65	-3335.81
VANO 15	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	5567.63	-3840.45	3898.80	1653.78	5567.63	-3840.45
VANO 15	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	5567.63	-3840.45	3898.80	1653.78	5567.63	-3840.45
VANO 15	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	4685.27	-4619.94	3898.80	1653.78	4685.27	-4619.94
VANO 15	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	3799.39	-5585.98	3898.80	1653.78	3799.39	-5585.98
VANO 15	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	2923.09	-6741.39	3898.80	1653.78	2923.09	-6741.39
VANO 15	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	2132.10	-8088.91	3898.80	1653.78	2132.10	-8088.91
VANO 15	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	2132.10	-8088.91	3898.80	1653.78	2132.10	-8088.91
VANO 15	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	1333.98	-9626.30	3898.80	1653.78	1333.98	-9626.30
VANO 15	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	538.95	-11348.67	3898.80	1653.78	538.95	-11348.67
VANO 15	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	-210.26	-13249.75	3898.80	1653.78	-210.26	-13249.75
VANO 15	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-678.49	-224.49	-642.86	3898.80	689.49	-1172.65	-15508.55	3898.80	1653.78	-1172.65	-15508.55

	X	VANO 16 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 16	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	-1049.07	-15399.21	3898.80	1778.41	-1049.07	-15399.21
VANO 16	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	-84.15	-13136.06	3898.80	1778.41	-84.15	-13136.06
VANO 16	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	666.85	-11232.04	3898.80	1778.41	666.85	-11232.04
VANO 16	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	1459.51	-9506.58	3898.80	1778.41	1459.51	-9506.58
VANO 16	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	2259.27	-7965.96	3898.80	1778.41	2259.27	-7965.96
VANO 16	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	2259.27	-7965.96	3898.80	1778.41	2259.27	-7965.96
VANO 16	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	3060.89	-6615.10	3898.80	1778.41	3060.89	-6615.10
VANO 16	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	3937.66	-5456.27	3898.80	1778.41	3937.66	-5456.27
VANO 16	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	4824.05	-4486.86	3898.80	1778.41	4824.05	-4486.86
VANO 16	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	5707.30	-3704.10	3898.80	1778.41	5707.30	-3704.10
VANO 16	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	5707.30	-3704.10	3898.80	1778.41	5707.30	-3704.10
VANO 16	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	6663.39	-3196.34	3898.80	1778.41	6663.39	-3196.34
VANO 16	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	7510.39	-2782.02	3898.80	1778.41	7510.39	-2782.02
VANO 16	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	8231.41	-2444.42	3898.80	1778.41	8231.41	-2444.42
VANO 16	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	8825.08	-2182.35	3898.80	1778.41	8825.08	-2182.35
VANO 16	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	8825.08	-2182.35	3898.80	1778.41	8825.08	-2182.35
VANO 16	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	9270.73	-2015.92	3898.80	1778.41	9270.73	-2015.92
VANO 16	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	9588.52	-1924.73	3898.80	1778.41	9588.52	-1924.73
VANO 16	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	9778.35	-1908.75	3898.80	1778.41	9778.35	-1908.75
VANO 16	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	9840.13	-1967.97	3898.80	1778.41	9840.13	-1967.97
VANO 16	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	9840.13	-1967.97	3898.80	1778.41	9840.13	-1967.97
VANO 16	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	9773.83	-2102.38	3898.80	1778.41	9773.83	-2102.38
VANO 16	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	9579.38	-2311.98	3898.80	1778.41	9579.38	-2311.98
VANO 16	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	9256.79	-2596.76	3898.80	1778.41	9256.79	-2596.76
VANO 16	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	8897.93	-2866.14	3898.80	1778.41	8897.93	-2866.14
VANO 16	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	8897.93	-2866.14	3898.80	1778.41	8897.93	-2866.14
VANO 16	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	9236.77	-2614.39	3898.80	1778.41	9236.77	-2614.39
VANO 16	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-642.86	3898.80	814.12	9541.22	-2347.91	3898.80	1778.41	9541.22	-2347.91
VANO 16	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-641.57	3898.80	816.05	9717.52	-2156.61	3898.80	1778.41	9717.52	-2156.61
VANO 16	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-639.00	3898.80	819.90	9765.68	-2040.50	3898.80	1778.41	9765.68	-2040.50
VANO 16	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-639.00	3898.80	819.90	9765.68	-2040.50	3898.80	1778.41	9765.68	-2040.50
VANO 16	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-636.43	3898.80	823.76	9685.74	-1999.58	3898.80	1778.41	9685.74	-1999.58
VANO 16	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-633.86	3898.80	827.62	9477.77	-2033.86	3898.80	1778.41	9477.77	-2033.86
VANO 16	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-631.29	3898.80	831.48	9141.82	-2143.35	3898.80	1778.41	9141.82	-2143.35
VANO 16	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-628.72	3898.80	835.33	8678.01	-2328.07	3898.80	1778.41	8678.01	-2328.07
VANO 16	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-628.72	3898.80	835.33	8678.01	-2328.07	3898.80	1778.41	8678.01	-2328.07
VANO 16	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-626.15	3898.80	839.19	8086.50	-2588.10	3898.80	1778.41	8086.50	-2588.10
VANO 16	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-623.57	3898.80	843.05	7367.62	-2923.64	3898.80	1778.41	7367.62	-2923.64
VANO 16	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-621.00	3898.80	846.90	6522.65	-3335.81	3898.80	1778.41	6522.65	-3335.81
VANO 16	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-618.43	3898.80	850.76	5567.63	-3840.45	3898.80	1778.41	5567.63	-3840.45
VANO 16	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-618.43	3898.80	850.76	5567.63	-3840.45	3898.80	1778.41	5567.63	-3840.45
VANO 16	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-615.86	3898.80	854.62	4685.27	-4619.94	3898.80	1778.41	4685.27	-4619.94
VANO 16	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-613.29	3898.80	858.48	3799.39	-5585.98	3898.80	1778.41	3799.39	-5585.98
VANO 16	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-610.72	3898.80	862.33	2923.09	-6741.39	3898.80	1778.41	2923.09	-6741.39
VANO 16	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-608.15	3898.80	866.19	2132.10	-8088.91	3898.80	1778.41	2132.10	-8088.91
VANO 16	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-608.15	3898.80	866.19	2132.10	-8088.91	3898.80	1778.41	2132.10	-8088.91
VANO 16	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-605.57	3898.80	870.05	1333.98	-9626.30	3898.80	1778.41	1333.98	-9626.30
VANO 16	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-603.00	3898.80	873.90	538.95	-11348.67	3898.80	1778.41	538.95	-11348.67
VANO 16	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-600.43	3898.80	877.76	-210.26	-13249.75	3898.80	1778.41	-210.26	-13249.75
VANO 16	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-586.17	-224.49	-597.86	3898.80	881.62	-1172.65	-15508.55	3898.80	1778.41	-1172.65	-15508.55

		VANO 17	POSITIVOS	NEGATIVOS					MOMENTO	MOMENTO	MOMENTO							ESFUERZOS EN ROTURA CON FRENADO				ESFUERZOS EN ROTURA SIN FRENADO			
	X	CARGAS PERMANENTES	ENVOLVENTE OBRECARGAS	ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	PRETENSADO EXTERIOR	RETENSADO CENTRADO	RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 17	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-597.86	3898.80	1006.08	-1049.07	-15399.21	3898.80	1902.87	-1049.07	-15399.21
VANO 17	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-595.29	3898.80	1009.93	-84.15	-13136.06	3898.80	1902.87	-84.15	-13136.06
VANO 17	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-592.72	3898.80	1013.79	666.85	-11232.04	3898.80	1902.87	666.85	-11232.04
VANO 17	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-590.15	3898.80	1017.65	1459.51	-9506.58	3898.80	1902.87	1459.51	-9506.58
VANO 17	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-587.57	3898.80	1021.50	2259.27	-7965.96	3898.80	1902.87	2259.27	-7965.96
VANO 17	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-587.57	3898.80	1021.50	2259.27	-7965.96	3898.80	1902.87	2259.27	-7965.96
VANO 17	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-585.00	3898.80	1025.36	3060.89	-6615.10	3898.80	1902.87	3060.89	-6615.10
VANO 17	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-582.43	3898.80	1029.22	3937.66	-5456.27	3898.80	1902.87	3937.66	-5456.27
VANO 17	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-579.86	3898.80	1033.08	4824.05	-4486.86	3898.80	1902.87	4824.05	-4486.86
VANO 17	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-577.29	3898.80	1036.93	5707.30	-3704.10	3898.80	1902.87	5707.30	-3704.10
VANO 17	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-577.29	3898.80	1036.93	5707.30	-3704.10	3898.80	1902.87	5707.30	-3704.10
VANO 17	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-574.72	3898.80	1040.79	6663.39	-3196.34	3898.80	1902.87	6663.39	-3196.34
VANO 17	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-572.15	3898.80	1044.65	7510.39	-2782.02	3898.80	1902.87	7510.39	-2782.02
VANO 17	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-569.57	3898.80	1048.50	8231.41	-2444.42	3898.80	1902.87	8231.41	-2444.42
VANO 17	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-567.00	3898.80	1052.36	8825.08	-2182.35	3898.80	1902.87	8825.08	-2182.35
VANO 17	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-567.00	3898.80	1052.36	8825.08	-2182.35	3898.80	1902.87	8825.08	-2182.35
VANO 17	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-564.43	3898.80	1056.22	9270.73	-2015.92	3898.80	1902.87	9270.73	-2015.92
VANO 17	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-561.86	3898.80	1060.08	9588.52	-1924.73	3898.80	1902.87	9588.52	-1924.73
VANO 17	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-559.29	3898.80	1063.93	9778.35	-1908.75	3898.80	1902.87	9778.35	-1908.75
VANO 17	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-556.72	3898.80	1067.79	9840.13	-1967.97	3898.80	1902.87	9840.13	-1967.97
VANO 17	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-556.72	3898.80	1067.79	9840.13	-1967.97	3898.80	1902.87	9840.13	-1967.97
VANO 17	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-554.15	3898.80	1071.65	9773.83	-2102.38	3898.80	1902.87	9773.83	-2102.38
VANO 17	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-551.57	3898.80	1075.50	9579.38	-2311.98	3898.80	1902.87	9579.38	-2311.98
VANO 17	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-549.00	3898.80	1079.36	9256.79	-2596.76	3898.80	1902.87	9256.79	-2596.76
VANO 17	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-546.43	3898.80	1083.22	8897.93	-2866.14	3898.80	1902.87	8897.93	-2866.14
VANO 17	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-546.43	3898.80	1083.22	8897.93	-2866.14	3898.80	1902.87	8897.93	-2866.14
VANO 17	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-543.86	3898.80	1087.08	9236.77	-2614.39	3898.80	1902.87	9236.77	-2614.39
VANO 17	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-541.29	3898.80	1090.93	9541.22	-2347.91	3898.80	1902.87	9541.22	-2347.91
VANO 17	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-538.72	3898.80	1094.79	9717.52	-2156.61	3898.80	1902.87	9717.52	-2156.61
VANO 17	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-536.15	3898.80	1098.65	9765.68	-2040.50	3898.80	1902.87	9765.68	-2040.50
VANO 17	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-536.15	3898.80	1098.65	9765.68	-2040.50	3898.80	1902.87	9765.68	-2040.50
VANO 17	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-533.57	3898.80	1102.50	9685.74	-1999.58	3898.80	1902.87	9685.74	-1999.58
VANO 17	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-531.00	3898.80	1106.36	9477.77	-2033.86	3898.80	1902.87	9477.77	-2033.86
VANO 17	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-528.43	3898.80	1110.22	9141.82	-2143.35	3898.80	1902.87	9141.82	-2143.35
VANO 17	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-525.86	3898.80	1114.08	8678.01	-2328.07	3898.80	1902.87	8678.01	-2328.07
VANO 17	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-525.86	3898.80	1114.08	8678.01	-2328.07	3898.80	1902.87	8678.01	-2328.07
VANO 17	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-523.29	3898.80	1117.93	8086.50	-2588.10	3898.80	1902.87	8086.50	-2588.10
VANO 17	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-520.72	3898.80	1121.79	7367.62	-2923.64	3898.80	1902.87	7367.62	-2923.64
VANO 17	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-518.15	3898.80	1125.65	6522.65	-3335.81	3898.80	1902.87	6522.65	3335.81
VANO 17	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	515.57	3898.80	1129.50	5567.63	-3840.45	3898.80	1902.87	5567.63	-3840.45
VANO 17	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-515.57	3898.80	1129.50	5567.63	-3840.45	3898.80	1902.87	5567.63	-3840.45
VANO 17	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-513.00	3898.80	1133.36	4685.27	-4619.94	3898.80	1902.87	4685.27	-4619.94
VANO 17	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-510.43	3898.80	1137.22	3799.39	-5585.98	3898.80	1902.87	3799.39	-5585.98
VANO 17	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-507.86	3898.80	1141.08	2923.09	-6741.39	3898.80	1902.87	2923.09	-6741.39
VANO 17	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-505.29	3898.80	1144.93	2132.10	-8088.91	3898.80	1902.87	2132.10	-8088.91
VANO 17	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-505.29	3898.80	1144.93	2132.10	-8088.91	3898.80	1902.87	2132.10	-8088.91
VANO 17	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-502.72	3898.80	1148.79	1333.98	-9626.30	3898.80	1902.87	1333.98	-9626.30
VANO 17	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-500.15	3898.80	1152.65	538.95	-11348.67	3898.80	1902.87	538.95	-11348.67
VANO 17	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-497.57	3898.80	1156.51	-210.26	-13249.75	3898.80	1902.87	-210.26	-13249.75
VANO 17	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-493.98	-224.49	-495.00	3898.80	1160.36	-1172.65	-15508.55	3898.80	1902.87	-1172.65	-15508.55

		VANO 18	POSITIVOS	NEGATIVOS					MOMENTO	MOMENTO	MOMENTO							ESFUERZOS EN ROTURA CON FRENADO				ESFUERZOS EN ROTURA SIN FRENADO			
	X	CARGAS PERMANENTES	ENVOLVENTE OBRECARGAS	ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	PRETENSADO EXTERIOR	RETENSADO CENTRADO	RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 18	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-495.00	3898.80	1284.70	-1049.07	-15399.21	3898.80	2027.20	-1049.07	-15399.21
VANO 18	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-492.43	3898.80	1288.55	-84.15	-13136.06	3898.80	2027.20	-84.15	-13136.06
VANO 18	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-489.86	3898.80	1292.41	666.85	-11232.04	3898.80	2027.20	666.85	-11232.04
VANO 18	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-487.29	3898.80	1296.27	1459.51	-9506.58	3898.80	2027.20	1459.51	-9506.58
VANO 18	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-484.72	3898.80	1300.13	2259.27	-7965.96	3898.80	2027.20	2259.27	-7965.96
VANO 18	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-484.72	3898.80	1300.13	2259.27	-7965.96	3898.80	2027.20	2259.27	-7965.96
VANO 18	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-482.15	3898.80	1303.98	3060.89	-6615.10	3898.80	2027.20	3060.89	-6615.10
VANO 18	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-479.57	3898.80	1307.84	3937.66	-5456.27	3898.80	2027.20	3937.66	-5456.27
VANO 18	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-477.00	3898.80	1311.70	4824.05	-4486.86	3898.80	2027.20	4824.05	-4486.86
VANO 18	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-474.43	3898.80	1315.55	5707.30	-3704.10	3898.80	2027.20	5707.30	-3704.10
VANO 18	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-474.43	3898.80	1315.55	5707.30	-3704.10	3898.80	2027.20	5707.30	-3704.10
VANO 18	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-471.86	3898.80	1319.41	6663.39	-3196.34	3898.80	2027.20	6663.39	-3196.34
VANO 18	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-469.29	3898.80	1323.27	7510.39	-2782.02	3898.80	2027.20	7510.39	-2782.02
VANO 18	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-466.72	3898.80	1327.13	8231.41	-2444.42	3898.80	2027.20	8231.41	-2444.42
VANO 18	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-464.14	3898.80	1330.98	8825.08	-2182.35	3898.80	2027.20	8825.08	-2182.35
VANO 18	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-464.14	3898.80	1330.98	8825.08	-2182.35	3898.80	2027.20	8825.08	-2182.35
VANO 18	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-461.57	3898.80	1334.84	9270.73	-2015.92	3898.80	2027.20	9270.73	-2015.92
VANO 18	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-459.00	3898.80	1338.70	9588.52	-1924.73	3898.80	2027.20	9588.52	-1924.73
VANO 18	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-456.43	3898.80	1342.55	9778.35	-1908.75	3898.80	2027.20	9778.35	-1908.75
VANO 18	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-453.86	3898.80	1346.41	9840.13	-1967.97	3898.80	2027.20	9840.13	-1967.97
VANO 18	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-453.86	3898.80	1346.41	9840.13	-1967.97	3898.80	2027.20	9840.13	-1967.97
VANO 18	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-451.29	3898.80	1350.27	9773.83	-2102.38	3898.80	2027.20	9773.83	-2102.38
VANO 18	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-448.72	3898.80	1354.13	9579.38	-2311.98	3898.80	2027.20	9579.38	-2311.98
VANO 18	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-446.14	3898.80	1357.98	9256.79	-2596.76	3898.80	2027.20	9256.79	-2596.76
VANO 18	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-443.57	3898.80	1361.84	8897.93	-2866.14	3898.80	2027.20	8897.93	-2866.14
VANO 18	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-443.57	3898.80	1361.84	8897.93	-2866.14	3898.80	2027.20	8897.93	-2866.14
VANO 18	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-441.00	3898.80	1365.70	9236.77	-2614.39	3898.80	2027.20	9236.77	-2614.39
VANO 18	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-438.43	3898.80	1369.55	9541.22	-2347.91	3898.80	2027.20	9541.22	-2347.91
VANO 18	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-435.86	3898.80	1373.41	9717.52	-2156.61	3898.80	2027.20	9717.52	-2156.61
VANO 18	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-433.29	3898.80	1377.27	9765.68	-2040.50	3898.80	2027.20	9765.68	-2040.50
VANO 18	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-433.29	3898.80	1377.27	9765.68	-2040.50	3898.80	2027.20	9765.68	-2040.50
VANO 18	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-430.72	3898.80	1381.13	9685.74	-1999.58	3898.80	2027.20	9685.74	-1999.58
VANO 18	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-428.14	3898.80	1384.98	9477.77	-2033.86	3898.80	2027.20	9477.77	-2033.86
VANO 18	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-425.57	3898.80	1388.84	9141.82	-2143.35	3898.80	2027.20	9141.82	-2143.35
VANO 18	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-423.00	3898.80	1392.70	8678.01	-2328.07	3898.80	2027.20	8678.01	-2328.07
VANO 18	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-423.00	3898.80	1392.70	8678.01	-2328.07	3898.80	2027.20	8678.01	-2328.07
VANO 18	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-420.43	3898.80	1396.55	8086.50	-2588.10	3898.80	2027.20	8086.50	-2588.10
VANO 18	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-417.86	3898.80	1400.41	7367.62	-2923.64	3898.80	2027.20	7367.62	-2923.64
VANO 18	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-415.29	3898.80	1404.27	6522.65	-3335.81	3898.80	2027.20	6522.65	-3335.81
VANO 18	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-412.72	3898.80	1408.13	5567.63	-3840.45	3898.80	2027.20	5567.63	-3840.45
VANO 18	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-412.72	3898.80	1408.13	5567.63	-3840.45	3898.80	2027.20	5567.63	-3840.45
VANO 18	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-410.14	3898.80	1411.98	4685.27	-4619.94	3898.80	2027.20	4685.27	-4619.94
VANO 18	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-407.57	3898.80	1415.84	3799.39	-5585.98	3898.80	2027.20	3799.39	-5585.98
VANO 18	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-405.00	3898.80	1419.70	2923.09	-6741.39	3898.80	2027.20	2923.09	-6741.39
VANO 18	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-402.43	3898.80	1423.55	2132.10	-8088.91	3898.80	2027.20	2132.10	-8088.91
VANO 18	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-402.43	3898.80	1423.55	2132.10	-8088.91	3898.80	2027.20	2132.10	-8088.91
VANO 18	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-399.86	3898.80	1427.41	1333.98	-9626.30	3898.80	2027.20	1333.98	-9626.30
VANO 18	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-397.29	3898.80	1431.27	538.95	-11348.67	3898.80	2027.20	538.95	-11348.67
VANO 18	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-394.72	3898.80	1435.13	-210.26	-13249.75	3898.80	2027.20	-210.26	-13249.75
VANO 18	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-401.88	-224.49	-392.14	3898.80	1438.98	-1172.65	-15508.55	3898.80	2027.20	-1172.65	-15508.55

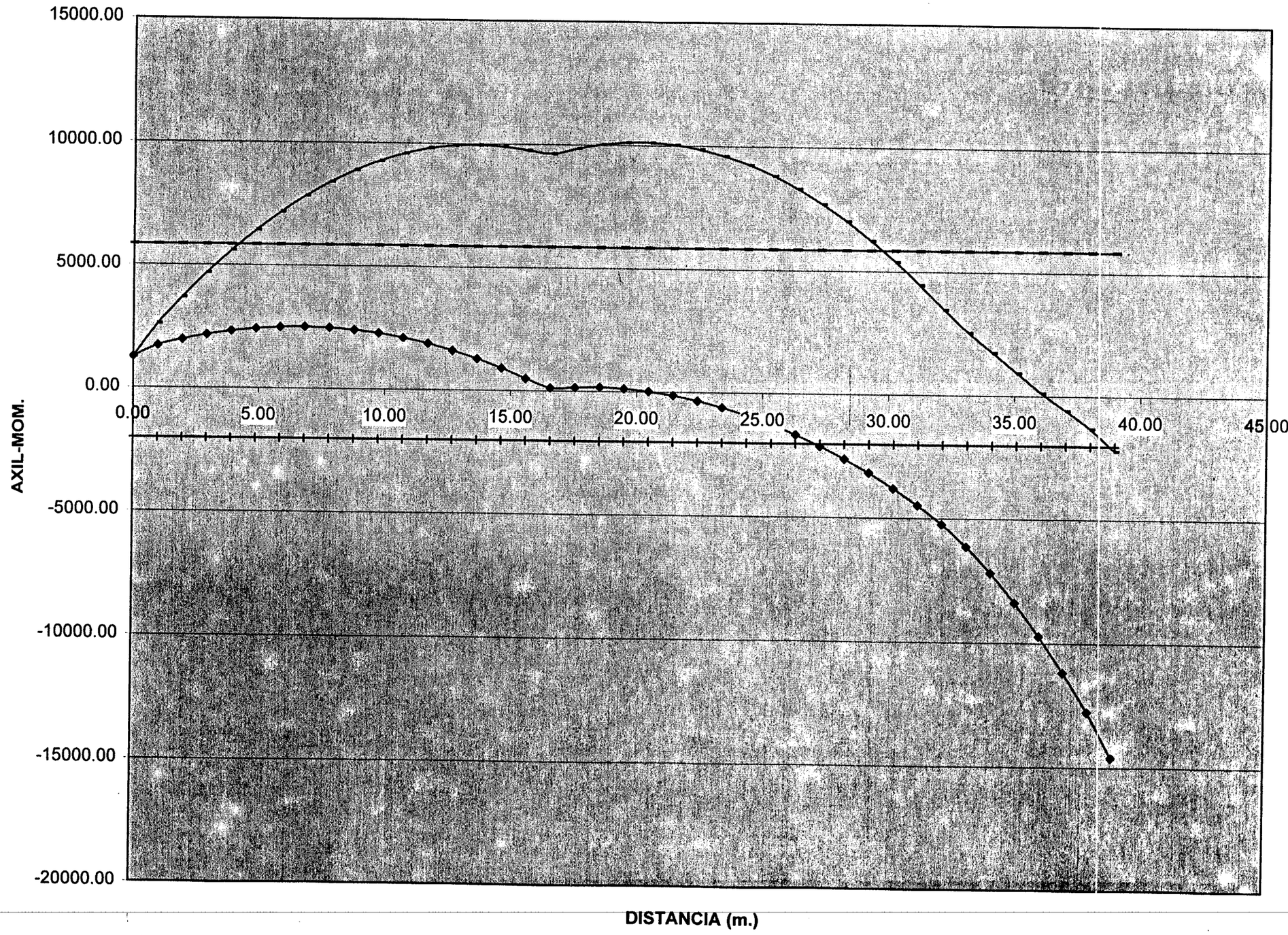
	X	VANO 19 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 19	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-392.14	3898.80	1563.71	-1049.07	-15399.21	3898.80	2151.93	-1049.07	-15399.21
VANO 19	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-389.57	3898.80	1567.57	-84.15	-13136.06	3898.80	2151.93	-84.15	-13136.06
VANO 19	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-387.00	3898.80	1571.42	666.85	-11232.04	3898.80	2151.93	666.85	-11232.04
VANO 19	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-384.43	3898.80	1575.28	1459.51	-9506.58	3898.80	2151.93	1459.51	-9506.58
VANO 19	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-381.86	3898.80	1579.14	2259.27	-7965.96	3898.80	2151.93	2259.27	-7965.96
VANO 19	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-381.86	3898.80	1579.14	2259.27	-7965.96	3898.80	2151.93	2259.27	-7965.96
VANO 19	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-379.29	3898.80	1583.00	3060.89	-6615.10	3898.80	2151.93	3060.89	-6615.10
VANO 19	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-376.72	3898.80	1586.85	3937.66	-5456.27	3898.80	2151.93	3937.66	-5456.27
VANO 19	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-374.14	3898.80	1590.71	4824.05	-4486.86	3898.80	2151.93	4824.05	-4486.86
VANO 19	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-371.57	3898.80	1594.57	5707.30	-3704.10	3898.80	2151.93	5707.30	-3704.10
VANO 19	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-371.57	3898.80	1594.57	5707.30	-3704.10	3898.80	2151.93	5707.30	-3704.10
VANO 19	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-369.00	3898.80	1598.42	6663.39	-3196.34	3898.80	2151.93	6663.39	-3196.34
VANO 19	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-366.43	3898.80	1602.28	7510.39	-2782.02	3898.80	2151.93	7510.39	-2782.02
VANO 19	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-363.86	3898.80	1606.14	8231.41	-2444.42	3898.80	2151.93	8231.41	-2444.42
VANO 19	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-361.29	3898.80	1610.00	8825.08	-2182.35	3898.80	2151.93	8825.08	-2182.35
VANO 19	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-361.29	3898.80	1610.00	8825.08	-2182.35	3898.80	2151.93	8825.08	-2182.35
VANO 19	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-358.72	3898.80	1613.85	9270.73	-2015.92	3898.80	2151.93	9270.73	-2015.92
VANO 19	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-356.14	3898.80	1617.71	9588.52	-1924.73	3898.80	2151.93	9588.52	-1924.73
VANO 19	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-353.57	3898.80	1621.57	9778.35	-1908.75	3898.80	2151.93	9778.35	-1908.75
VANO 19	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-351.00	3898.80	1625.42	9840.13	-1967.97	3898.80	2151.93	9840.13	-1967.97
VANO 19	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-351.00	3898.80	1625.42	9840.13	-1967.97	3898.80	2151.93	9840.13	-1967.97
VANO 19	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-348.43	3898.80	1629.28	9773.83	-2102.38	3898.80	2151.93	9773.83	-2102.38
VANO 19	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-345.86	3898.80	1633.14	9579.38	-2311.98	3898.80	2151.93	9579.38	-2311.98
VANO 19	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-343.29	3898.80	1637.00	9256.79	-2596.76	3898.80	2151.93	9256.79	-2596.76
VANO 19	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-340.72	3898.80	1640.85	8897.93	-2866.14	3898.80	2151.93	8897.93	-2866.14
VANO 19	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-340.72	3898.80	1640.85	8897.93	-2866.14	3898.80	2151.93	8897.93	-2866.14
VANO 19	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-338.14	3898.80	1644.71	9236.77	-2614.39	3898.80	2151.93	9236.77	-2614.39
VANO 19	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-335.57	3898.80	1648.57	9541.22	-2347.91	3898.80	2151.93	9541.22	-2347.91
VANO 19	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-333.00	3898.80	1652.42	9717.52	-2156.61	3898.80	2151.93	9717.52	-2156.61
VANO 19	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-330.43	3898.80	1656.28	9765.68	-2040.50	3898.80	2151.93	9765.68	-2040.50
VANO 19	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-330.43	3898.80	1656.28	9765.68	-2040.50	3898.80	2151.93	9765.68	-2040.50
VANO 19	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-327.86	3898.80	1660.14	9685.74	-1999.58	3898.80	2151.93	9685.74	-1999.58
VANO 19	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-325.29	3898.80	1664.00	9477.77	-2033.86	3898.80	2151.93	9477.77	-2033.86
VANO 19	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-322.72	3898.80	1667.85	9141.82	-2143.35	3898.80	2151.93	9141.82	-2143.35
VANO 19	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-320.14	3898.80	1671.71	8678.01	-2328.07	3898.80	2151.93	8678.01	-2328.07
VANO 19	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-320.14	3898.80	1671.71	8678.01	-2328.07	3898.80	2151.93	8678.01	-2328.07
VANO 19	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-317.57	3898.80	1675.57	8086.50	-2588.10	3898.80	2151.93	8086.50	-2588.10
VANO 19	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-315.00	3898.80	1679.42	7367.62	-2923.64	3898.80	2151.93	7367.62	-2923.64
VANO 19	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-312.43	3898.80	1683.28	6522.65	-3335.81	3898.80	2151.93	6522.65	-3335.81
VANO 19	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-309.86	3898.80	1687.14	5567.63	-3840.45	3898.80	2151.93	5567.63	-3840.45
VANO 19	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-309.86	3898.80	1687.14	5567.63	-3840.45	3898.80	2151.93	5567.63	-3840.45
VANO 19	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-307.29	3898.80	1691.00	4685.27	-4619.94	3898.80	2151.93	4685.27	-4619.94
VANO 19	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-304.72	3898.80	1694.85	3799.39	-5585.98	3898.80	2151.93	3799.39	-5585.98
VANO 19	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-302.14	3898.80	1698.71	2923.09	-6741.39	3898.80	2151.93	2923.09	-6741.39
VANO 19	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-299.57	3898.80	1702.57	2132.10	-8088.91	3898.80	2151.93	2132.10	-8088.91
VANO 19	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-299.57	3898.80	1702.57	2132.10	-8088.91	3898.80	2151.93	2132.10	-8088.91
VANO 19	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-297.00	3898.80	1706.43	1333.98	-9626.30	3898.80	2151.93	1333.98	-9626.30
VANO 19	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-294.43	3898.80	1710.28	538.95	-11348.67	3898.80	2151.93	538.95	-11348.67
VANO 19	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-291.86	3898.80	1714.14	-210.26	-13249.75	3898.80	2151.93	-210.26	-13249.75
VANO 19	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-309.49	-224.49	-289.29	3898.80	1718.00	-1172.65	-15508.55	3898.80	2151.93	-1172.65	-15508.55

	X	VANO 20 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 20	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-289.29	3898.80	1842.17	-1049.07	-15399.21	3898.80	2276.10	-1049.07	-15399.21
VANO 20	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-286.72	3898.80	1846.03	-84.15	-13136.06	3898.80	2276.10	-84.15	-13136.06
VANO 20	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-284.14	3898.80	1849.88	666.85	-11232.04	3898.80	2276.10	666.85	-11232.04
VANO 20	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-281.57	3898.80	1853.74	1459.51	-9506.58	3898.80	2276.10	1459.51	-9506.58
VANO 20	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-279.00	3898.80	1857.60	2259.27	-7965.96	3898.80	2276.10	2259.27	-7965.96
VANO 20	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-279.00	3898.80	1857.60	2259.27	-7965.96	3898.80	2276.10	2259.27	-7965.96
VANO 20	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-276.43	3898.80	1861.46	3060.89	-6615.10	3898.80	2276.10	3060.89	-6615.10
VANO 20	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-273.86	3898.80	1865.31	3937.66	-5456.27	3898.80	2276.10	3937.66	-5456.27
VANO 20	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-271.29	3898.80	1869.17	4824.05	-4486.86	3898.80	2276.10	4824.05	-4486.86
VANO 20	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-268.72	3898.80	1873.03	5707.30	-3704.10	3898.80	2276.10	5707.30	-3704.10
VANO 20	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-268.72	3898.80	1873.03	5707.30	-3704.10	3898.80	2276.10	5707.30	-3704.10
VANO 20	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-266.14	3898.80	1876.88	6663.39	-3196.34	3898.80	2276.10	6663.39	-3196.34
VANO 20	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-263.57	3898.80	1880.74	7510.39	-2782.02	3898.80	2276.10	7510.39	-2782.02
VANO 20	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-261.00	3898.80	1884.60	8231.41	-2444.42	3898.80	2276.10	8231.41	-2444.42
VANO 20	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-258.43	3898.80	1888.46	8825.08	-2182.35	3898.80	2276.10	8825.08	-2182.35
VANO 20	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-258.43	3898.80	1888.46	8825.08	-2182.35	3898.80	2276.10	8825.08	-2182.35
VANO 20	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-255.86	3898.80	1892.31	9270.73	-2015.92	3898.80	2276.10	9270.73	-2015.92
VANO 20	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-253.29	3898.80	1896.17	9588.52	-1924.73	3898.80	2276.10	9588.52	-1924.73
VANO 20	18.00	2884.97	4409.21	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-250.72	3898.80	1900.03	9778.35	-1908.75	3898.80	2276.10	9778.35	-1908.75
VANO 20	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-248.14	3898.80	1903.88	9840.13	-1967.97	3898.80	2276.10	9840.13	-1967.97
VANO 20	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-248.14	3898.80	1903.88	9840.13	-1967.97	3898.80	2276.10	9840.13	-1967.97
VANO 20	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-245.57	3898.80	1907.74	9773.83	-2102.38	3898.80	2276.10	9773.83	-2102.38
VANO 20	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-243.00	3898.80	1911.60	9579.38	-2311.98	3898.80	2276.10	9579.38	-2311.98
VANO 20	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-240.43	3898.80	1915.46	9256.79	-2596.76	3898.80	2276.10	9256.79	-2596.76
VANO 20	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-237.86	3898.80	1919.31	8897.93	-2866.14	3898.80	2276.10	8897.93	-2866.14
VANO 20	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-237.86	3898.80	1919.31	8897.93	-2866.14	3898.80	2276.10	8897.93	-2866.14
VANO 20	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-235.29	3898.80	1923.17	9236.77	-2614.39	3898.80	2276.10	9236.77	-2614.39
VANO 20	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-232.72	3898.80	1927.03	9541.22	-2347.91	3898.80	2276.10	9541.22	-2347.91
VANO 20	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-230.14	3898.80	1930.88	9717.52	-2156.61	3898.80	2276.10	9717.52	-2156.61
VANO 20	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.87	-217.51	-224.49	-227.57	3898.80	1934.74	9765.68	-2040.50	3898.80	2276.10	9765.68	-2040.50
VANO 20	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-227.57	3898.80	1934.74	9765.68	-2040.50	3898.80	2276.10	9765.68	-2040.50
VANO 20	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-225.00	3898.80	1938.60	9685.74	-1999.58	3898.80	2276.10	9685.74	-1999.58
VANO 20	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-222.43	3898.80	1942.46	9477.77	-2033.86	3898.80	2276.10	9477.77	-2033.86
VANO 20	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-219.86	3898.80	1946.31	9141.82	-2143.35	3898.80	2276.10	9141.82	-2143.35
VANO 20	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-217.29	3898.80	1950.17	8678.01	-2328.07	3898.80	2276.10	8678.01	-2328.07
VANO 20	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-217.29	3898.80	1950.17	8678.01	-2328.07	3898.80	2276.10	8678.01	-2328.07
VANO 20	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-214.72	3898.80	1954.03	8086.50	-2588.10	3898.80	2276.10	8086.50	-2588.10
VANO 20	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-212.14	3898.80	1957.88	7367.62	-2923.64	3898.80	2276.10	7367.62	-2923.64
VANO 20	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-209.57	3898.80	1961.74	6522.65	-3335.81	3898.80	2276.10	6522.65	-3335.81
VANO 20	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-207.00	3898.80	1965.60	5567.63	-3840.45	3898.80	2276.10	5567.63	-3840.45
VANO 20	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-207.00	3898.80	1965.60	5567.63	-3840.45	3898.80	2276.10	5567.63	-3840.45
VANO 20	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-204.43	3898.80	1969.46	4685.27	-4619.94	3898.80	2276.10	4685.27	-4619.94
VANO 20	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-201.86	3898.80	1973.31	3799.39	-5585.98	3898.80	2276.10	3799.39	-5585.98
VANO 20	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-199.29	3898.80	1977.17	2923.09	-6741.39	3898.80	2276.10	2923.09	-6741.39
VANO 20	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-196.72	3898.80	1981.03	2132.10	-8088.91	3898.80	2276.10	2132.10	-8088.91
VANO 20	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-196.72	3898.80	1981.03	2132.10	-8088.91	3898.80	2276.10	2132.10	-8088.91
VANO 20	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-194.14	3898.80	1984.88	1333.98	-9626.30	3898.80	2276.10	1333.98	-9626.30
VANO 20	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-191.57	3898.80	1988.74	538.95	-11348.67	3898.80	2276.10	538.95	-11348.67
VANO 20	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-189.00	3898.80	1992.60	-210.26	-13249.75	3898.80	2276.10	-210.26	-13249.75
VANO 20	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-217.51	-224.49	-186.43	3898.80	1996.46	-1172.65	-15508.55	3898.80	2276.10	-1172.65	-15508.55

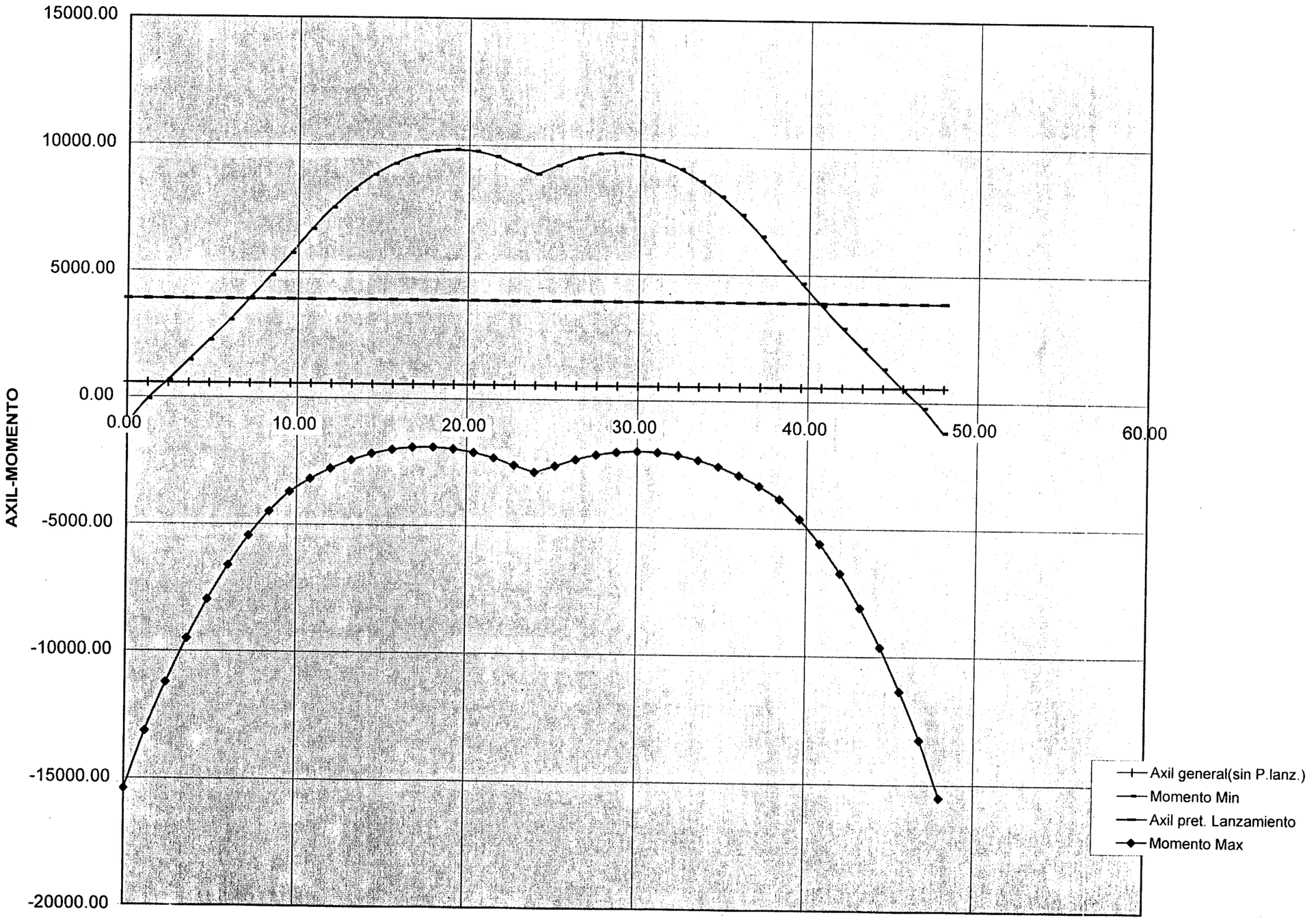
	X	VANO 21 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 21	0.00	-6953.44	1109.78	-6161.39	1058.97	-666.41	570.22	0.00	3806.66	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-186.43	3898.80	2121.29	-1049.07	-15399.21	3898.80	2400.93	-1049.07	-15399.21
VANO 21	1.20	-5930.49	1047.07	-5422.61	1015.88	-645.49	570.22	1.20	3575.03	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-183.86	3898.80	2125.15	-84.15	-13136.06	3898.80	2400.93	-84.15	-13136.06
VANO 21	2.40	-4959.55	1011.11	-4753.89	972.80	-624.58	570.22	2.40	3177.95	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-181.29	3898.80	2129.00	666.85	-11232.04	3898.80	2400.93	666.85	-11232.04
VANO 21	3.60	-4040.62	1049.73	-4157.41	929.71	-603.66	570.22	3.60	2780.87	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-178.72	3898.80	2132.86	1459.51	-9506.58	3898.80	2400.93	1459.51	-9506.58
VANO 21	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-176.14	3898.80	2136.72	2259.27	-7965.96	3898.80	2400.93	2259.27	-7965.96
VANO 21	4.80	-3173.69	1139.88	-3637.34	886.63	-582.74	570.22	4.80	2383.79	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-176.14	3898.80	2136.72	2259.27	-7965.96	3898.80	2400.93	2259.27	-7965.96
VANO 21	6.00	-2358.77	1278.09	-3196.98	843.54	-561.83	570.22	6.00	1986.70	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-173.57	3898.80	2140.58	3060.89	-6615.10	3898.80	2400.93	3060.89	-6615.10
VANO 21	7.20	-1595.85	1513.19	-2837.83	800.46	-540.91	570.23	7.20	1589.62	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-171.00	3898.80	2144.43	3937.66	-5456.27	3898.80	2400.93	3937.66	-5456.27
VANO 21	8.40	-884.94	1801.52	-2558.16	757.38	-520.00	570.23	8.40	1192.54	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-168.43	3898.80	2148.29	4824.05	-4486.86	3898.80	2400.93	4824.05	-4486.86
VANO 21	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-165.86	3898.80	2152.15	5707.30	-3704.10	3898.80	2400.93	5707.30	-3704.10
VANO 21	9.60	-226.03	2134.55	-2356.11	714.29	-499.08	570.23	9.60	795.46	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-165.86	3898.80	2152.15	5707.30	-3704.10	3898.80	2400.93	5707.30	-3704.10
VANO 21	10.80	380.87	2562.95	-2290.60	671.21	-478.16	570.23	10.80	398.37	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-163.29	3898.80	2156.00	6663.39	-3196.34	3898.80	2400.93	6663.39	-3196.34
VANO 21	12.00	935.76	2965.44	-2240.57	628.12	-457.25	570.23	12.00	1.29	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-160.72	3898.80	2159.86	7510.39	-2782.02	3898.80	2400.93	7510.39	-2782.02
VANO 21	13.20	1438.65	3330.73	-2194.88	585.04	-436.33	570.23	13.20	-395.79	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-158.14	3898.80	2163.72	8231.41	-2444.42	3898.80	2400.93	8231.41	-2444.42
VANO 21	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-155.57	3898.80	2167.58	8825.08	-2182.35	3898.80	2400.93	8825.08	-2182.35
VANO 21	14.40	1889.53	3657.94	-2152.75	541.95	-415.42	570.23	14.40	-792.87	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-155.57	3898.80	2167.58	8825.08	-2182.35	3898.80	2400.93	8825.08	-2182.35
VANO 21	15.60	2273.35	3946.82	-2114.01	498.87	-394.50	570.23	15.60	-1189.96	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-153.00	3898.80	2171.43	9270.73	-2015.92	3898.80	2400.93	9270.73	-2015.92
VANO 21	16.80	2605.16	4197.27	-2078.63	455.78	-373.58	570.23	16.80	-1587.04	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-150.43	3898.80	2175.29	9588.52	-1924.73	3898.80	2400.93	9588.52	-1924.73
VANO 21	18.00	2884.97	4409.71	-2046.58	412.70	-352.67	570.24	18.00	-1984.12	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-147.86	3898.80	2179.15	9778.35	-1908.75	3898.80	2400.93	9778.35	-1908.75
VANO 21	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-145.29	3898.80	2183.00	9840.13	-1967.97	3898.80	2400.93	9840.13	-1967.97
VANO 21	19.20	3112.77	4582.60	-2017.86	369.62	-331.75	570.24	19.20	-2381.20	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-145.29	3898.80	2183.00	9840.13	-1967.97	3898.80	2400.93	9840.13	-1967.97
VANO 21	20.40	3288.57	4717.40	-1992.47	326.53	-310.84	570.24	20.40	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-142.71	3898.80	2186.86	9773.83	-2102.38	3898.80	2400.93	9773.83	-2102.38
VANO 21	21.60	3412.35	4813.58	-1970.39	283.45	-289.92	570.24	21.60	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-140.14	3898.80	2190.72	9579.38	-2311.98	3898.80	2400.93	9579.38	-2311.98
VANO 21	22.80	3484.14	4871.12	-1951.63	240.36	-269.00	570.24	22.80	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-137.57	3898.80	2194.58	9256.79	-2596.76	3898.80	2400.93	9256.79	-2596.76
VANO 21	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-135.00	3898.80	2198.43	8897.93	-2866.14	3898.80	2400.93	8897.93	-2866.14
VANO 21	24.00	3503.92	4890.02	-1937.08	197.28	-248.09	570.24	24.00	-3886.81	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-135.00	3898.80	2198.43	8897.93	-2866.14	3898.80	2400.93	8897.93	-2866.14
VANO 21	25.20	3471.69	4870.27	-1953.61	239.07	-267.58	570.24	25.20	-3572.45	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-132.43	3898.80	2202.29	9236.77	-2614.39	3898.80	2400.93	9236.77	-2614.39
VANO 21	26.40	3387.46	4811.88	-1973.46	282.11	-288.39	570.24	26.40	-3175.37	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-129.86	3898.80	2206.15	9541.22	-2347.91	3898.80	2400.93	9541.22	-2347.91
VANO 21	27.60	3251.22	4714.85	-1996.63	325.15	-309.21	570.24	27.60	-2778.29	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-127.29	3898.80	2210.01	9717.52	-2156.61	3898.80	2400.93	9717.52	-2156.61
VANO 21	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-124.71	3898.80	2213.86	9765.68	-2040.50	3898.80	2400.93	9765.68	-2040.50
VANO 21	28.80	3062.98	4579.20	-2023.12	368.19	-330.03	570.24	28.80	-2381.21	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-124.71	3898.80	2213.86	9765.68	-2040.50	3898.80	2400.93	9765.68	-2040.50
VANO 21	30.00	2822.73	4404.96	-2052.94	411.22	-350.85	570.25	30.00	-1984.13	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-122.14	3898.80	2217.72	9685.74	-1999.58	3898.80	2400.93	9685.74	-1999.58
VANO 21	31.20	2530.47	4192.17	-2086.07	454.26	-371.66	570.25	31.20	-1587.05	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-119.57	3898.80	2221.58	9477.77	-2033.86	3898.80	2400.93	9477.77	-2033.86
VANO 21	32.40	2186.21	3940.87	-2122.55	497.30	-392.48	570.25	32.40	-1189.97	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-117.00	3898.80	2225.43	9141.82	-2143.35	3898.80	2400.93	9141.82	-2143.35
VANO 21	33.60	1789.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-114.43	3898.80	2229.29	8678.01	-2328.07	3898.80	2400.93	8678.01	-2328.07
VANO 21	33.60	1769.94	3651.12	-2162.37	540.34	-413.30	570.25	33.60	-792.89	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-114.43	3898.80	2229.29	8678.01	-2328.07	3898.80	2400.93	8678.01	-2328.07
VANO 21	34.80	1341.67	3323.05	-2205.60	583.38	-434.12	570.25	34.80	-395.81	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-111.86	3898.80	2233.15	8086.50	-2588.10	3898.80	2400.93	8086.50	-2588.10
VANO 21	36.00	841.39	2956.88	-2252.36	626.42	-454.93	570.25	36.00	1.27	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-109.29	3898.80	2237.01	7367.62	-2923.64	3898.80	2400.93	7367.62	-2923.64
VANO 21	37.20	289.11	2553.44	-2303.40	669.46	-475.75	570.25	37.20	398.35	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-106.71	3898.80	2240.86	6522.65	-3335.81	3898.80	2400.93	6522.65	-3335.81
VANO 21	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-104.14	3898.80	2244.72	5567.63	-3840.45	3898.80	2400.93	5567.63	-3840.45
VANO 21	38.40	-315.18	2123.45	-2369.28	712.50	-496.57	570.25	38.40	795.43	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-104.14	3898.80	2244.72	5567.63	-3840.45	3898.80	2400.93	5567.63	-3840.45
VANO 21	39.60	-971.47	1788.70	-2571.59	755.54	-517.39	570.25	39.60	1192.51	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-101.57	3898.80	2248.58	4685.27	-4619.94	3898.80	2400.93	4685.27	-4619.94
VANO 21	40.80	-1679.77	1498.41	-2851.47	798.58	-538.20	570.25	40.80	1589.59	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-99.00	3898.80	2252.43	3799.39	-5585.98	3898.80	2400.93	3799.39	-5585.98
VANO 21	42.00	-2440.08	1261.31	-3210.78	841.62	-559.02	570.26	42.00	1986.68	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-96.43	3898.80	2256.29	2923.09	-6741.39	3898.80	2400.93	2923.09	-6741.39
VANO 21	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-93.86	3898.80	2260.15	2132.10	-8088.91	3898.80	2400.93	2132.10	-8088.91
VANO 21	43.20	-3252.39	1127.89	-3651.36	884.66	-579.84	570.26	43.20	2383.76	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-93.86	3898.80	2260.15	2132.10	-8088.91	3898.80	2400.93	2132.10	-8088.91
VANO 21	44.40	-4116.70	1036.52	-4171.72	927.70	-600.66	570.26	44.40	2780.84	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-91.29	3898.80	2264.01	1333.98	-9626.30	3898.80	2400.93	1333.98	-9626.30
VANO 21	45.60	-5033.03	994.02	-4768.59	970.74	-621.47	570.26	45.60	3177.92	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-88.71	3898.80	2267.86	538.95	-11348.67	3898.80	2400.93	538.95	-11348.67
VANO 21	46.80	-6001.35	1028.86	-5437.80	1013.78	-642.29	570.26	46.80	3575.00	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-86.14	3898.80	2271.72	-210.26	-13249.75	3898.80	2400.93	-210.26	-13249.75
VANO 21	48.00	-7021.69	1090.95	-6174.83	1056.81	-664.41	570.26	48.00	3806.63	0.00	0.00	2585.52	4093.74	-584.82	-125.04	-224.49	-83.57	3898.80	2275.58	-1172.65	-15508.55	3898.80	2400.93	-1172.65	-15508.55

	X	VANO 22 CARGAS PERMANENTES	POSITIVOS ENVOLVENTE OBRECARGAS	NEGATIVOS ENVOLVENTE OBRECARGAS	POSITIV ASIENTO 1.25 cm	NEGATIV ASIENTO 1.25 cm	GRADIENTE	X	MOMENTO PRETENSADO EXTERIOR	MOMENTO RETENSADO CENTRADO	MOMENTO RETENSADO ADICIONAL	AXIL EXTERIOR	AXIL CENTRADO	AXIL ADICIONAL	AXIL RETR+FLU	AXIL INTER-VIA	AXIL FRENADO	ESFUERZOS EN ROTURA CON FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS	ESFUERZOS EN ROTURA SIN FRENADO AXIL Cent+Adic	AXIL ESFUERZO	MOMENTOS POSITIVOS	MOMENTOS NEGATIVOS
VANO 22	0.00	-6859.13	712.94	-5707.47	1090.33	-43.08	704.60	0.00	2955.05	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-83.57	3898.80	1443.53	-2214.63	-14602.26	3898.80	1568.88	-2214.63	-14602.26
VANO 22	0.98	-6015.19	701.84	-5137.30	1063.07	-42.00	686.98	0.98	2809.16	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-81.48	3898.80	1446.66	-1321.39	-12768.17	3898.80	1568.88	-1321.39	-12768.17
VANO 22	1.95	-5205.59	700.27	-4614.60	1035.81	-40.93	669.37	1.95	2545.19	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-79.39	3898.80	1449.79	-591.38	-11182.84	3898.80	1568.88	-591.38	-11182.84
VANO 22	2.93	-4430.32	713.09	-4142.98	1008.56	-39.85	651.75	2.93	2281.23	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-77.30	3898.80	1452.93	113.87	-9720.48	3898.80	1568.88	113.87	-9720.48
VANO 22	3.90	-3689.38	824.27	-3726.42	981.30	-38.77	634.14	3.90	2017.26	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-75.21	3898.80	1456.06	920.29	-8387.05	3898.80	1568.88	920.29	-8387.05
VANO 22	3.90	-3689.38	824.27	-3726.42	981.30	-38.77	634.14	3.90	2017.26	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-75.21	3898.80	1456.06	920.29	-8387.05	3898.80	1568.88	920.29	-8387.05
VANO 22	4.88	-2982.77	968.70	-3369.37	954.04	-37.69	616.52	4.88	1753.29	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-73.13	3898.80	1459.20	1730.25	-7189.23	3898.80	1568.88	1730.25	-7189.23
VANO 22	5.85	-2310.50	1144.49	-3076.77	926.78	-36.62	598.91	5.85	1489.33	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-71.04	3898.80	1462.33	2540.90	-6134.45	3898.80	1568.88	2540.90	-6134.45
VANO 22	6.83	-1672.56	1432.19	-2854.11	899.52	-35.54	581.29	6.83	1225.36	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-68.95	3898.80	1465.46	3473.07	-5230.91	3898.80	1568.88	3473.07	-5230.91
VANO 22	7.80	-1068.95	1786.72	-2701.98	872.26	-34.46	563.68	7.80	961.40	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-66.86	3898.80	1468.60	4459.13	-4479.52	3898.80	1568.88	4459.13	-4479.52
VANO 22	7.80	-1068.95	1786.72	-2701.98	872.26	-34.46	563.68	7.80	961.40	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-66.86	3898.80	1468.60	4459.13	-4479.52	3898.80	1568.88	4459.13	-4479.52
VANO 22	8.78	-499.67	2132.30	-2568.91	845.01	-33.39	546.06	8.78	697.43	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-64.77	3898.80	1471.73	5385.42	-3803.06	3898.80	1568.88	5385.42	-3803.06
VANO 22	9.75	35.28	2453.54	-2440.19	817.75	-32.31	528.45	9.75	433.47	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-62.68	3898.80	1474.87	6228.86	-3179.50	3898.80	1568.88	6228.86	-3179.50
VANO 22	10.73	535.90	2761.67	-2327.15	790.49	-31.23	510.83	10.73	169.50	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-60.59	3898.80	1478.00	7006.28	-2625.78	3898.80	1568.88	7006.28	-2625.78
VANO 22	11.70	1002.18	3043.14	-2216.29	763.23	-30.16	493.22	11.70	-94.47	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-58.50	3898.80	1481.13	7697.37	-2121.69	3898.80	1568.88	7697.37	-2121.69
VANO 22	11.70	1002.18	3043.14	-2216.29	763.23	-30.16	493.22	11.70	-94.47	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-58.50	3898.80	1481.13	7697.37	-2121.69	3898.80	1568.88	7697.37	-2121.69
VANO 22	12.68	1434.13	3297.91	-2107.62	735.97	-29.08	475.60	12.68	-358.43	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-56.41	3898.80	1484.27	8302.04	-1667.23	3898.80	1568.88	8302.04	-1667.23
VANO 22	13.65	1831.75	3525.92	-2001.14	708.71	-28.00	457.99	13.65	-622.40	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-54.32	3898.80	1487.40	8820.25	-1262.39	3898.80	1568.88	8820.25	-1262.39
VANO 22	14.63	2195.04	3727.16	-1896.84	681.46	-26.92	440.37	14.63	-886.36	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-52.23	3898.80	1490.54	9251.94	-907.19	3898.80	1568.88	9251.94	-907.19
VANO 22	15.60	2524.00	3901.57	-1794.73	654.20	-25.85	422.76	15.60	-1150.33	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-50.14	3898.80	1493.67	9597.04	-601.61	3898.80	1568.88	9597.04	-601.61
VANO 22	15.60	2524.00	3901.57	-1794.73	654.20	-25.85	422.76	15.60	-1150.33	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-50.14	3898.80	1493.67	9597.04	-601.61	3898.80	1568.88	9597.04	-601.61
VANO 22	16.58	2818.62	4049.14	-1694.81	626.94	-24.77	405.14	16.58	-1414.29	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-48.05	3898.80	1496.80	9855.54	-345.66	3898.80	1568.88	9855.54	-345.66
VANO 22	17.55	3078.92	4169.84	-1597.07	599.68	-23.69	387.53	17.55	-1678.26	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-45.96	3898.80	1499.94	10027.38	-139.34	3898.80	1568.88	10027.38	-139.34
VANO 22	18.53	3304.88	4263.65	-1501.52	572.42	-22.62	369.91	18.53	-1942.22	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-43.88	3898.80	1503.07	10112.54	17.36	3898.80	1568.88	10112.54	17.36
VANO 22	19.50	3496.51	4330.55	-1408.15	545.17	-21.54	352.30	19.50	-2206.19	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-41.79	3898.80	1506.21	10110.98	124.43	3898.80	1568.88	10110.98	124.43
VANO 22	19.50	3496.51	4330.55	-1408.15	545.17	-21.54	352.30	19.50	-2206.19	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-41.79	3898.80	1506.21	10110.98	124.43	3898.80	1568.88	10110.98	124.43
VANO 22	20.48	3653.80	4370.53	-1320.20	517.91	-20.46	334.68	20.48	-2470.16	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-39.70	3898.80	1509.34	10022.69	177.03	3898.80	1568.88	10022.69	177.03
VANO 22	21.45	3776.77	4383.56	-1250.71	490.65	-19.39	317.07	21.45	-2734.12	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-37.61	3898.80	1512.47	9847.64	155.58	3898.80	1568.88	9847.64	155.58
VANO 22	22.43	3865.40	4369.64	-1181.23	463.39	-18.31	299.45	22.43	-2956.76	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-35.52	3898.80	1515.61	9631.73	133.70	3898.80	1568.88	9631.73	133.70
VANO 22	23.40	3919.71	4328.75	-1111.75	436.13	-17.23	281.84	23.40	-2796.66	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-33.43	3898.80	1518.74	9754.29	490.74	3898.80	1568.88	9754.29	490.74
VANO 22	23.40	3919.71	4328.75	-1111.75	436.13	-17.23	281.84	23.40	-2796.66	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-33.43	3898.80	1518.74	9754.29	490.74	3898.80	1568.88	9754.29	490.74
VANO 22	24.38	3939.68	4260.89	-1042.26	408.87	-16.15	264.22	24.38	-2539.64	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-31.34	3898.80	1521.88	9897.71	909.11	3898.80	1568.88	9897.71	909.11
VANO 22	25.35	3925.31	4166.03	-972.78	381.62	-15.08	246.61	25.35	-2282.63	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-29.25	3898.80	1525.01	9954.30	1281.14	3898.80	1568.88	9954.30	1281.14
VANO 22	26.33	3876.62	4044.18	-903.29	354.36	-14.00	228.99	26.33	-2025.61	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-27.16	3898.80	1528.14	9924.05	1606.82	3898.80	1568.88	9924.05	1606.82
VANO 22	27.30	3793.60	3895.31	-833.81	327.10	-12.92	211.38	27.30	-1768.59	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-25.07	3898.80	1531.28	9806.94	1886.15	3898.80	1568.88	9806.94	1886.15
VANO 22	27.30	3793.60	3895.31	-833.81	327.10	-12.92	211.38	27.30	-1768.59	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-25.07	3898.80	1531.28	9806.94	1886.15	3898.80	1568.88	9806.94	1886.15
VANO 22	28.28	3664.00	3719.44	-764.32	299.84	-11.85	193.76	28.28	-1511.58	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-22.98	3898.80	1534.41	9586.44	2102.62	3898.80	1568.88	9586.44	2102.62
VANO 22	29.25	3500.08	3516.54	-694.84	272.58	-10.77	176.15	29.25	-1254.56	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-20.89	3898.80	1537.55	9279.06	2272.73	3898.80	1568.88	9279.06	2272.73
VANO 22	30.23	3301.82	3286.61	-625.36	245.32	-9.69	158.53	30.23	-997.54	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-18.80	3898.80	1540.68	8884.78	2396.50	3898.80	1568.88	8884.78	2396.50
VANO 22	31.20	3069.23	3029.65	-555.87	218.07	-8.62	140.92	31.20	-740.53	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-16.71	3898.80	1543.81	8403.61	2473.92	3898.80	1568.88	8403.61	2473.92
VANO 22	31.20	3069.23	3029.65	-555.87	218.07	-8.62	140.92	31.20	-740.53	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-16.71	3898.80	1543.81	8403.61	2473.92	3898.80	1568.88	8403.61	2473.92
VANO 22	32.18	2802.31	2745.64	-486.39	190.81	-7.54	123.30	32.18	-483.51	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-14.63	3898.80	1546.95	7835.52	2505.00	3898.80	1568.88	7835.52	2505.00
VANO 22	33.15	2501.06	2434.59	-416.90	163.55	-6.46	105.69	33.15	-226.49	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-12.54	3898.80	1550.08	7180.51	2489.72	3898.80	1568.88	7180.51	2489.72
VANO 22	34.13	2165.48	2096.48	-347.42	136.29	-5.38	88.07	34.13	30.52	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-10.45	3898.80	1553.21	6438.58	2428.10	3898.80	1568.88	6438.58	2428.10
VANO 22	35.10	1795.56	1731.32	-277.94	109.03	-4.31	70.46	35.1	287.54	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-8.36	3898.80	1556.35	5609.71	2320.13	3898.80	1568.88	5609.71	2320.13
VANO 22	35.10	1795.56	1731.32	-277.94	109.03	-4.31	70.46	35.1	287.54	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-8.36	3898.80	1556.35	5609.71	2320.13	3898.80	1568.88	5609.71	2320.13
VANO 22	36.08	1391.31	1339.09	-208.45	81.77	-3.23	52.84	36.075	544.56	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-6.27	3898.80	1559.48	4693.90	2165.81	3898.80	1568.88	4693.90	2165.81
VANO 22	37.05	952.73	919.80	-138.97	54.52	-2.15	35.23	37.05	801.57	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-4.18	3898.80	1562.62	3691.14	1965.14	3898.80	1568.88	3691.14	1965.14
VANO 22	38.03	479.82	473.44	-69.48	27.26	-1.08	17.61	38.025	1058.59	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	-2.09	3898.80	1565.75	2601.43	1718.13	3898.80	1568.88	2601.43	1718.13
VANO 22	39.00	-27.42	0.00	0.00	0.00	0.00	0.00	39	1166.51	0.00	0.00	1723.68	4093.74	-584.82	-32.04	-224.49	0.00	3898.80	1568.88	1259.10	1259.10	3898.80	1568.88	1259.10	1259.10

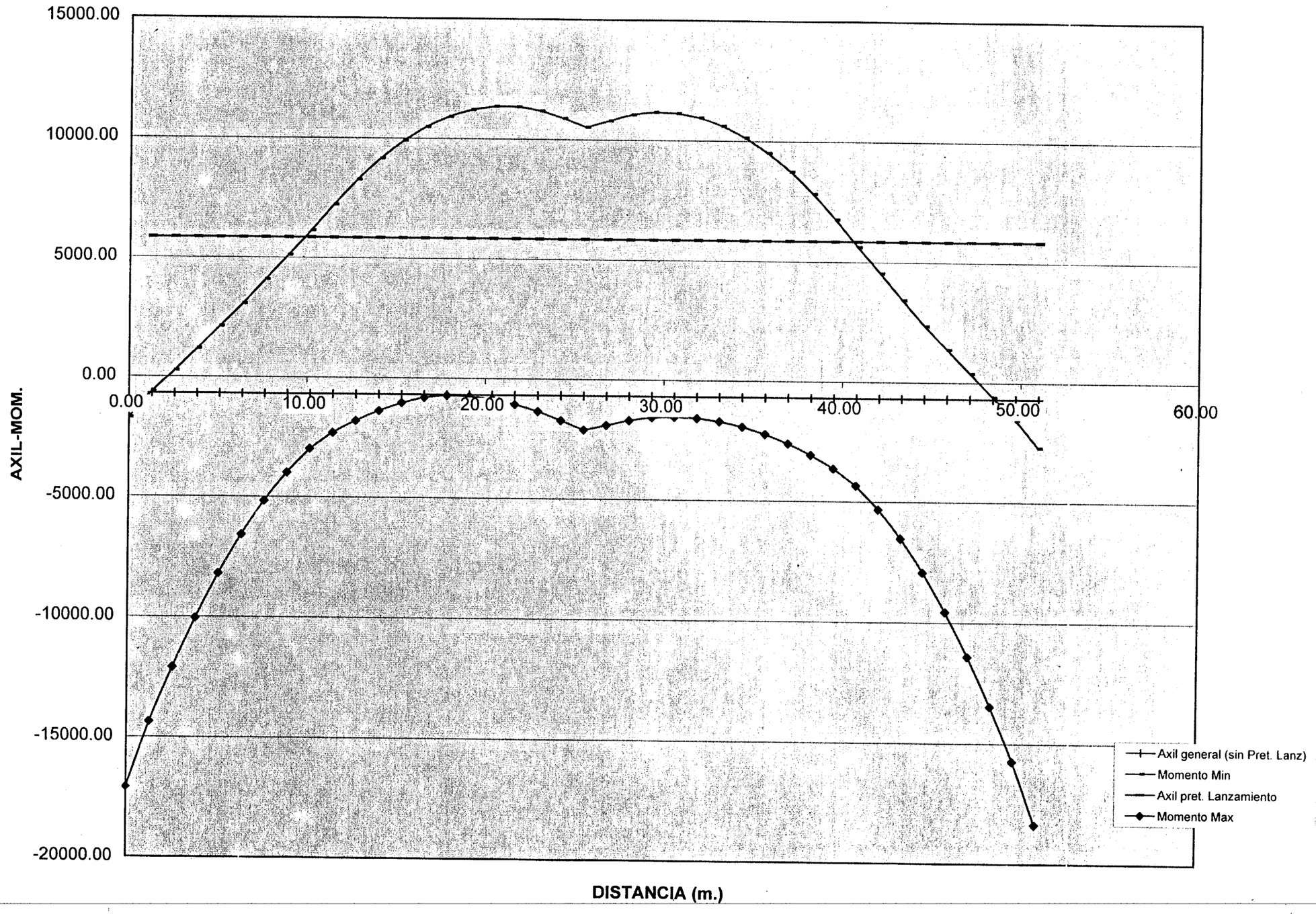
MOMENTOS Y AXILES VANO 1



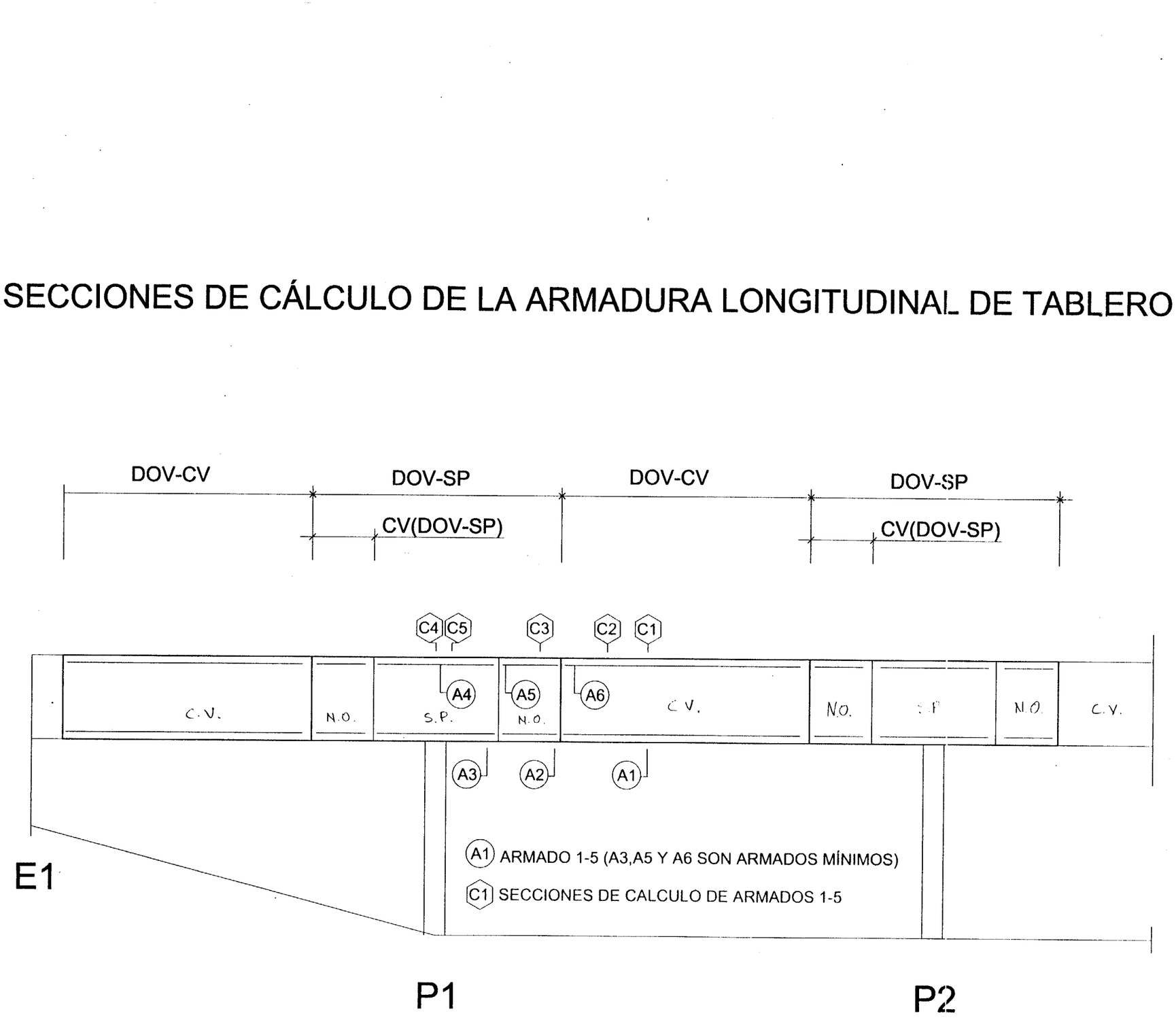
ESFUERZOS MAYORADOS VANO14



MOMENTOS Y AXILES VANO4



SECCIONES DE CÁLCULO DE LA ARMADURA LONGITUDINAL DE TABLERO



ARMADO LONGITUDINAL DE TABLERO. VIADUCTO DE VINAIXA. AVE SUBTRAMO IIIa .TRAMO LLEIDA-MARTORELL

VANO 1

VANO 1 x=6.825 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 6.825

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-642.86	-224.49	-1980.55	**-2025.89**
MOMENTO	2802.31	2745.64	190.81	123.30	-483.51				**7835.52**

VANO 1 x=7.800 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 7.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-642.86	-224.49	-1980.55	**-2025.89**
MOMENTO	3069.23	3029.65	218.07	140.92	-740.53				**8403.61**

VANO 1 x=21.450 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 21.450

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-642.86	-224.49	-1980.55	**-2025.89**
MOMENTO	3078.92	4169.84	599.68	387.53	-1678.26				**10027.38**

VANO 1 x=22.425 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 22.425

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-642.86	-224.49	-1980.55	**-2025.89**
MOMENTO	2818.62	4049.14	626.94	405.14	-1414.29				**9855.54**

VANO 1 x=28.275 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 28.275

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-642.86	-224.49	-1980.55	**-2025.89**
MOMENTO	535.90	2761.67	790.49	510.83	169.50				**7006.28**

VANO 1 x=38.025 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 38.025

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-642.86	-224.49	-1980.55	**-2025.89**
MOMENTO	-6015.19	-5137.30	-42.00	0.00	2809.16				**-12768.17**

VANO 1 x=39.000 — ARMADO SUP. — 80.00 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 39.000

	CP	SC	80.00	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-642.86	-224.49	-1980.55	**-2025.89**
MOMENTO	-6859.13	-5707.47	-43.08	0.00	2955.05				**-14602.26**

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V1-NO-6	1.228	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V1-NO-6	1.164	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V1-CV-6	1.098	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 20	30 ϕ 20

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V1-NO-6	1.027	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V1-SP-6	1.182	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V1-NO-6	1.192	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V1-SP-6	1.157	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

VANO 2

VANO 2 x=0.000 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 0.000

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1888.08	**-943.46**
MOMENTO	-6859.13	-5707.47	-43.08	0.00	3691.06				**-13784.47**

VANO 2 x=1.200 — ARMADO SUP. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 1.200

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1888.08	**-943.46**
MOMENTO	-5835.39	-4877.72	-37.95	0.00	3463.15				**-11403.34**

VANO 2 x=10.800 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 10.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1888.08	**-943.46**
MOMENTO	482.28	2016.97	692.41	666.65	316.23				**6066.48**

VANO 2 x=16.800 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 16.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1888.08	**-943.46**
MOMENTO	2710.52	3856.36	471.34	645.57	-1650.59				**9285.12**

VANO 2 x=18.000 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 18.000

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1888.08	**-943.46**
MOMENTO	2991.11	4104.90	427.12	641.36	-2043.95				**9527.02**

VANO 2 x=31.200 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 31.200

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1888.08	**-943.46**
MOMENTO	2645.29	4194.05	90.33	594.98	-1605.98				**9105.76**

VANO 2 x=38.400 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 38.400

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1888.08	**-943.46**
MOMENTO	-195.62	2221.02	121.12	569.69	798.81				**4991.21**

VANO 2 x=46.800 — ARMADO SUP. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 46.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1888.08	**-943.46**
MOMENTO	-5876.27	-5509.39	-639.36	0.00	3604.40				**-13151.22**

VANO 2 x=48.000 — ARMADO SUP. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 48.000

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1888.08	**-943.46**
MOMENTO	-6895.82	-6258.29	-678.22	0.00	3839.74				**-15447.75**

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V1-SP-6	1.365	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V2-NO-2	1.252	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V1-SP-6	1.588	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V2-NO-2	1.005	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V2-CV-2	1.082	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 20	30 ϕ 20

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V2-NO-2	1.022	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V2-SP-2	1.511	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V2-NO-2	1.105	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V2-SP-2	1.018	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

VANO 3

VANO 3 x=0.000 — ARMADO SUP. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 0.000

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1796.06	-819.23
MOMENTO	-6895.82	-6258.29	-678.22	0.00	3839.74				-15447.75

VANO 3 x=1.200 — ARMADO SUP. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 1.200

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1796.06	-819.23
MOMENTO	-5885.78	-5484.27	-656.96	0.00	3606.98				-13149.88

VANO 3 x=10.800 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 10.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1796.06	-819.23
MOMENTO	322.35	2404.66	3.86	545.61	421.28				5334.45

VANO 3 x=16.800 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 16.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1796.06	-819.23
MOMENTO	2482.13	4160.29	30.04	550.97	-1569.78				8718.62

VANO 3 x=28.800 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 28.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1796.06	-819.23
MOMENTO	2810.90	4671.61	341.97	561.70	-2375.25				9518.46

VANO 3 x=31.200 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 31.200

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1796.06	-819.23
MOMENTO	2252.59	4292.70	425.49	563.84	-1583.35				9204.76

VANO 3 x=37.200 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 37.200

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1796.06	-819.23
MOMENTO	-53.29	2647.48	634.29	569.20	396.40				6144.97

VANO 3 x=46.800 — ARMADO SUP. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 46.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1796.06	-819.23
MOMENTO	-6446.99	-6059.03	-600.11	0.00	3564.00				-14732.15

VANO 3 x=48.000 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 48.000

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1796.06	-819.23
MOMENTO	-7480.23	-6839.52	-619.66	0.00	3794.51				-17070.96

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V3-SP-2	1.032	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V3-NO-2	1.124	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V3-SP-2	1.475	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V3-NO-2	1.079	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V3-CV-2	1.099	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 20	30 ϕ 20

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V3-NO-2	1.028	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V4-SP-6	1.611	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V3-NO-2	1.014	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V4-SP-6	1.138	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

VANO 4

VANO 4 x=0.000 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 0.000

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1701.41	-691.46
MOMENTO	-7480.23	-6839.52	-619.66	0.00	3794.51				-17070.96

VANO 4 x=1.275 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 1.275

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1701.41	-691.46
MOMENTO	-6339.29	-5914.78	-580.17	0.00	3554.37				-14351.15

VANO 4 x=10.200 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 10.200

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1701.41	-691.46
MOMENTO	3.43	2242.02	684.68	576.68	788.61				6135.92

VANO 4 x=16.575 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 16.575

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1701.41	-691.46
MOMENTO	2756.66	4332.60	481.26	575.32	-1186.94				10486.43

VANO 4 x=20.400 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 20.400

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1701.41	-691.46
MOMENTO	3665.68	5087.50	359.21	574.50	-2372.27				11344.62

VANO 4 x=34.425 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 34.425

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1701.41	-691.46
MOMENTO	2478.12	4389.08	446.65	571.51	-1185.70				10138.89

VANO 4 x=40.800 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 40.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1701.41	-691.46
MOMENTO	-410.06	2319.14	644.12	570.15	790.74				5625.13

VANO 4 x=49.725 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 49.725

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1701.41	-691.46
MOMENTO	-6919.30	-6295.82	-596.59	0.00	3557.76				-15726.60

VANO 4 x=51.000 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 51.000

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1701.41	-691.46
MOMENTO	-8084.03	-7160.91	-617.17	0.00	3798.07				-18360.49

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V4-SP-6	1.152	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V4-NO-6	1.212	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V4-SP-6	1.656	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V4-NO-6	1.119	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V4-CV-6	1.127	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 20	30 ϕ 20

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V4-NO-6	1.154	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V4-SP-6	1.783	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V4-NO-6	1.113	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V4-SP-6	1.076	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

VANO 5

VANO 5 x=0.000 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 0.000

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1602.41	-557.81
MOMENTO	-8084.03	-7160.91	-617.17	0.00	3798.07				-18360.49

VANO 5 x=1.275 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 1.275

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1602.41	-557.81
MOMENTO	-6912.67	-6293.28	-597.59	0.00	3557.95				-15715.14

VANO 5 x=10.200 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 10.200

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1602.41	-557.81
MOMENTO	-357.03	2306.80	644.39	568.54	792.24				5677.89

VANO 5 x=16.575 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 16.575

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1602.41	-557.81
MOMENTO	2548.28	4388.99	447.10	568.90	-1183.26				10232.93

VANO 5 x=29.325 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 29.325

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1602.41	-557.81
MOMENTO	3827.69	5272.34	317.26	569.62	-2763.07				11336.12

VANO 5 x=34.425 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 34.425

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1602.41	-557.81
MOMENTO	2695.59	4365.13	479.59	569.90	-1181.88				10447.77

VANO 5 x=40.800 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 40.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1602.41	-557.81
MOMENTO	-40.50	2282.77	682.50	570.26	794.61				6131.52

VANO 5 x=49.725 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 49.725

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1602.41	-557.81
MOMENTO	-6336.83	-5943.34	-631.85	0.00	3561.69				-14460.07

VANO 5 x=51.000 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 51.000

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1602.41	-557.81
MOMENTO	-7471.14	-6865.06	-652.45	0.00	3802.01				-17137.84

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V5-SP-6	1.089	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V5-NO-6	1.122	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V5-SP-6	1.823	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V5-NO-6	1.162	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V5-CV-6	1.143	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 20	30 ϕ 20

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V5-NO-6	1.139	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V5-SP-6	1.704	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V5-NO-6	1.216	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V5-SP-6	1.162	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

VANO 6

VANO 6 x=0.000 — ARMADO SUP. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 0.000

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1507.71	-429.96
MOMENTO	-7471.14	-6865.06	-652.45	0.00	3802.01				-17137.84

VANO 6 x=1.200 — ARMADO SUP. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 1.200

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1507.71	-429.96
MOMENTO	-6431.64	-6080.17	-609.67	0.00	3570.53				-14750.22

VANO 6 x=10.800 — ARMADO INF. — 6 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 10.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1507.71	-429.96
MOMENTO	12.15	2655.26	633.09	570.66	395.05				6243.87

VANO 6 x=16.800 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 16.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1507.71	-429.96
MOMENTO	2319.22	4334.51	425.27	570.57	-1589.63				9360.21

VANO 6 x=28.800 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 28.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1507.71	-429.96
MOMENTO	2942.58	4694.14	374.11	570.38	-2382.32				9783.39

VANO 6 x=31.200 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 31.200

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1507.71	-429.96
MOMENTO	2443.18	4285.07	459.66	570.34	-1587.87				9506.60

VANO 6 x=37.200 — ARMADO INF. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 37.200

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1507.71	-429.96
MOMENTO	284.59	2564.60	673.53	570.24	398.27				6539.28

VANO 6 x=46.800 — ARMADO SUP. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 46.800

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1507.71	-429.96
MOMENTO	-5873.44	-5651.07	-645.42	0.00	3576.10				-13400.44

VANO 6 x=48.000 — ARMADO SUP. — 2 CABLES DE PRET. DE LANZAMIENTO ADICIONAL — X= 48.000

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1507.71	-429.96
MOMENTO	-6877.22	-6422.59	-666.28	0.00	3807.87				-15686.58

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V5-SP-6	1.176	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V6-NO-2	1.057	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V5-SP-6	1.724	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V6-NO-2	1.062	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V6-CV-2	1.122	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 20	30 ϕ 20

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V6-NO-2	1.047	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V6-SP-2	1.113	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V6-NO-2	1.159	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V6-SP-2	1.062	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

VANO 8

VANO 8 x=0.000 **ARMADO SUP.** **X= 0.000**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1323.91	**-181.83**
MOMENTO	-6953.44	-6161.39	-666.41	0.00	3806.66				**-15399.21**

VANO 8 x=1.200 **ARMADO SUP.** **X= 1.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1323.91	**-181.83**
MOMENTO	-5930.49	-5422.61	-645.49	0.00	3575.03				**-13136.06**

VANO 8 x=10.800 **ARMADO INF.** **X= 10.800**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1323.91	**-181.83**
MOMENTO	380.87	2562.95	671.21	570.23	398.37				**6663.39**

VANO 8 x=16.800 **ARMADO INF.** **X= 16.800**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1323.91	**-181.83**
MOMENTO	2605.16	4197.27	455.78	570.23	-1587.04				**9588.52**

VANO 8 x=19.200 **ARMADO INF.** **X= 19.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1323.91	**-181.83**
MOMENTO	3112.77	4582.60	369.62	570.24	-2381.20				**9840.13**

VANO 8 x=31.200 **ARMADO INF.** **X= 31.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1323.91	**-181.83**
MOMENTO	2530.47	4192.17	454.26	570.25	-1587.05				**9477.77**

VANO 8 x=37.200 **ARMADO INF.** **X= 37.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1323.91	**-181.83**
MOMENTO	289.11	2553.44	669.46	570.25	398.35				**6522.65**

VANO 8 x=46.800 **ARMADO SUP.** **X= 46.800**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1323.91	**-181.83**
MOMENTO	-6001.35	-5437.80	-642.29	0.00	3575.00				**-13249.75**

VANO 8 x=48.000 **ARMADO SUP.** **X= 48.000**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1323.91	**-181.83**
MOMENTO	-7021.69	-6174.83	-664.41	0.00	3806.63				**-15508.55**

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V8-SP-0	1.054	30 ϕ 20	(7+13+7) ϕ 20	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V8-NO-0	1.110	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 20	30 ϕ 20

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V8-SP-0	1.238	30 ϕ 20	(7+13+7) ϕ 20	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V8-NO-0	1.067	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 20	30 ϕ 20

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V8-CV-0	1.041	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 20	30 ϕ 20

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V8-NO-0	1.080	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 20	30 ϕ 20

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V8-SP-0	1.264	30 ϕ 20	(7+13+7) ϕ 20	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V8-NO-0	1.101	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 20	30 ϕ 20

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V8-SP-0	1.047	30 ϕ 20	(7+13+7) ϕ 20	30 ϕ 12	30 ϕ 12

VANO 10

VANO 10 x=0.000 **ARMADO SUP.** **X= 0.000**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1139.63	**66.95**
MOMENTO	-6953.44	-6161.39	-666.41	0.00	3806.66				**-15399.21**

VANO 10 x=10.800 **ARMADO INF.** **X= 10.800**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1139.63	**66.95**
MOMENTO	380.87	2562.95	671.21	570.23	398.37				**6663.39**

VANO 10 x=37.200 **ARMADO INF.** **X= 37.200**

	CP	SC	D.APOYOS	GRAD T	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1139.63	**66.95**
MOMENTO	289.11	2553.44	669.46	570.25	398.35				**6522.65**

VANO 10 x=48.000 **ARMADO SUP.** **X= 48.000**

	CP	SC	D.APOYOS	GRAD T	PRET. EXT	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-1139.63	**66.95**
MOMENTO	-7021.69	-6174.83	-664.41	0.00	3806.63				**-15508.55**

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V10-SP-0	1.024	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V10-SP-0	1.308	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V10-SP-0	1.336	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V10-SP-0	1.016	30 ϕ 16	(7+13+7) ϕ 16	30 ϕ 12	30 ϕ 12

VANO 14

VANO 14 x=0.000 **ARMADO SUP.** **X= 0.000**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-770.47	**565.31**
MOMENTO	-6953.44	-6161.39	-666.41	0.00	3806.66				**-15399.21**

VANO 14 x=1.200 **ARMADO SUP.** **X= 1.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-770.47	**565.31**
MOMENTO	-5930.49	-5422.61	-645.49	0.00	3575.03				**-13136.06**

VANO 14 x=10.800 **ARMADO INF.** **X= 10.800**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-770.47	**565.31**
MOMENTO	380.87	2562.95	671.21	570.23	398.37				**6663.39**

VANO 14 x=16.800 **ARMADO INF.** **X= 16.800**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-770.47	**565.31**
MOMENTO	2605.16	4197.27	455.78	570.23	-1587.04				**9588.52**

VANO 14 x=19.200 **ARMADO INF.** **X= 19.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-770.47	**565.31**
MOMENTO	3112.77	4582.60	369.62	570.24	-2381.20				**9840.13**

VANO 14 x=31.200 **ARMADO INF.** **X= 31.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-770.47	**565.31**
MOMENTO	2530.47	4192.17	454.26	570.25	-1587.05				**9477.77**

VANO 14 x=37.200 **ARMADO INF.** **X= 37.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-770.47	**565.31**
MOMENTO	289.11	2553.44	669.46	570.25	398.35				**6522.65**

VANO 14 x=46.800 **ARMADO SUP.** **X= 46.800**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-770.47	**565.31**
MOMENTO	-6001.35	-5437.80	-642.29	0.00	3575.00				**-13249.75**

VANO 14 x=48.000 **ARMADO SUP.** **X= 48.000**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-642.86	-224.49	-770.47	**565.31**
MOMENTO	-7021.69	-6174.83	-664.41	0.00	3806.63				**-15508.55**

ARMADURA LONGITUDINAL SUPERIOR E INFFRIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V14-SP-0	1.038	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V14-NO-0	1.218	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V14-SP-0	1.475	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V14-NO-0	1.059	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V14-CV-0	1.029	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V14-NO-0	1.072	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V14-SP-0	1.511	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V14-NO-0	1.207	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 16	30 ϕ 16

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V14-SP-0	1.031	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

VANO 18

VANO 18 x=1.200 **ARMADO SUP.** **X= 1.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-492.43	-224.49	-401.88	**1288.55**
MOMENTO	-5930.49	-5422.61	-645.49	0.00	3575.03				**-13136.06**

VANO 18 x=16.800 **ARMADO INF.** **X= 16.800**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-459.00	-224.49	-401.88	**1338.70**
MOMENTO	2605.16	4197.27	455.78	570.23	-1587.04				**9588.52**

VANO 18 x=19.200 **ARMADO INF.** **X= 19.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-453.86	-224.49	-401.88	**1346.41**
MOMENTO	3112.77	4582.60	369.62	570.24	-2381.20				**9840.13**

VANO 18 x=31.200 **ARMADO INF.** **X= 31.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-428.14	-224.49	-401.88	**1384.98**
MOMENTO	2530.47	4192.17	454.26	570.25	-1587.05				**9477.77**

VANO 18 x=46.800 **ARMADO SUP.** **X= 46.800**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					2585.52	-394.72	-224.49	-401.88	**1435.13**
MOMENTO	-6001.35	-5437.80	-642.29	0.00	3575.00				**-13249.75**

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V18-NO-0	1.257	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V18-NO-0	1.081	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V18-CV-0	1.049	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V18-NO-0	1.105	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V18-NO-0	1.263	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

VANO 22

VANO 22 x=0.000 **ARMADO SUP.** **X= 0.000**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-83.57	-224.49	-32.04	**1443.53**
MOMENTO	-6859.13	-5707.47	-43.08	0.00	2955.05				**-14602.26**

VANO 22 x=0.975 **ARMADO SUP.** **X= 0.975**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-81.48	-224.49	-32.04	**1446.66**
MOMENTO	-6015.19	-5137.30	-42.00	0.00	2809.16				**-12768.17**

VANO 22 x=10.725 **ARMADO INF.** **X= 10.725**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-60.59	-224.49	-32.04	**1478.00**
MOMENTO	535.90	2761.67	790.49	510.83	169.50				**7006.28**

VANO 22 x=16.575 **ARMADO INF.** **X= 16.575**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-48.05	-224.49	-32.04	**1496.80**
MOMENTO	2818.62	4049.14	626.94	405.14	-1414.29				**9855.54**

VANO 22 x=18.525 **ARMADO INF.** **X= 18.525**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-43.88	-224.49	-32.04	**1503.07**
MOMENTO	3304.88	4263.65	572.42	369.91	-1942.22				**10112.54**

VANO 22 x=31.200 **ARMADO INF.** **X= 31.200**

	CP	SC	D.APOYOS	GRAD T.	PRET. EXT.	FRENADO	INT V-CARRIL	RETR-FLU	ESF.DIMEN
AXIL					1723.68	-16.71	-224.49	-32.04	**1543.81**
MOMENTO	3069.23	3029.65	218.07	140.92	-740.53				**8403.61**

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V22-SP-0	1.247	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V22-NO-0	1.342	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

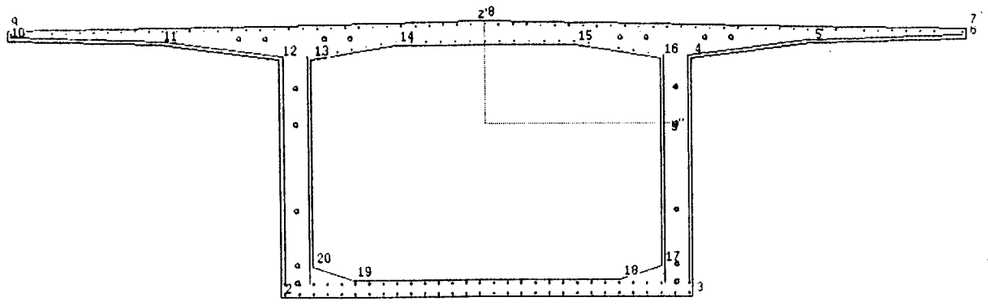
ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V22-SP-0	1.785	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V22-NO-0	1.071	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V22-CV-0	1.039	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

ARMADURA LONGITUDINAL SUPERIOR E INFERIOR					
SECC.FAGUS	COEF SEG ADICIONAL	SUP FAMILIA K	SUP FAMILIA L	INF FAMILIA P	INF FAMILIA O
V22-NO-0	1.320	30 ϕ 12	(7+13+7) ϕ 12	30 ϕ 12	30 ϕ 12

Mstb. 1 : 90.0



SecciÂn :"V1-CV-6" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00		
8	A1900	(0)	28.50	277.50	250.00		
9	A1900	(0)	28.50	-277.50	303.00		
10	A1900	(0)	28.50	277.50	303.00		
11	A1900	(0)	28.50	-358.00	375.00		
12	A1900	(0)	28.50	358.00	375.00		
13	A1900	(0)	28.50	-320.00	375.00		
14	A1900	(0)	28.50	320.00	375.00		
15	A1900	(0)	28.50	-235.00	375.00		
16	A1900	(0)	28.50	235.00	375.00		
17	A1900	(0)	28.50	-197.00	375.00		
18	A1900	(0)	28.50	197.00	375.00		
19	AEH500	(2)	94.25	-295.00	5.00	295.00	5.00
20	AEH500	(2)	94.25	-295.00	20.00	295.00	20.00
21	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
22	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
23	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
24	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
25	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
26	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
27	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
28	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
29	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
30	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
31	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
32	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
33	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 924.20 CuantÀa de armadura: 1.022 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn

fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

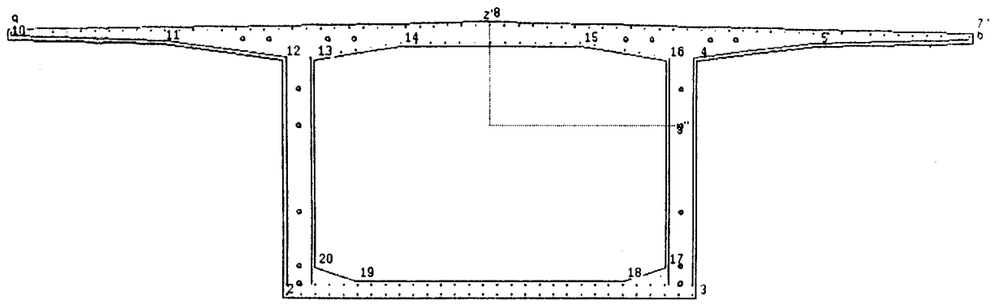
C lculo Resistencia Ultima: Viga "V1-CV-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
2025.890				10027.4	

Coeficiente de seguridad 1.098

Mstb. 1 : 90.0



SecciÂn :"V1-NO-6" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00		
8	A1900	(0)	28.50	277.50	250.00		
9	A1900	(0)	28.50	-277.50	303.00		
10	A1900	(0)	28.50	277.50	303.00		
11	A1900	(0)	28.50	-358.00	375.00		
12	A1900	(0)	28.50	358.00	375.00		
13	A1900	(0)	28.50	-320.00	375.00		
14	A1900	(0)	28.50	320.00	375.00		
15	A1900	(0)	28.50	-235.00	375.00		
16	A1900	(0)	28.50	235.00	375.00		
17	A1900	(0)	28.50	-197.00	375.00		
18	A1900	(0)	28.50	197.00	375.00		
19	AEH500	(2)	60.32	-295.00	5.00	295.00	5.00
20	AEH500	(2)	60.32	-295.00	20.00	295.00	20.00
21	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
22	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
23	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
24	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
25	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
26	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
27	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
28	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
29	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
30	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
31	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
32	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
33	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 856.34 CuantÀa de armadura: 0.947 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.00	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn

fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "V1-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
2025.890				7835.520	

Coeficiente de seguridad 1.228

C lculo Resistencia Ultima: Viga "V1-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
2025.890				8403.610	

Coeficiente de seguridad 1.164

C lculo Resistencia Ultima: Viga "V1-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
2025.890				9855.540	

Coeficiente de seguridad 1.027

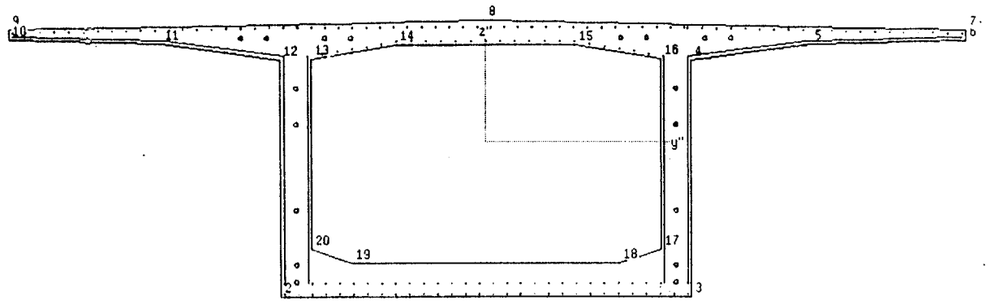
C lculo Resistencia Ultima: Viga "V1-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
2025.890				-12768.2	

Coeficiente de seguridad 1.192

Mstb. 1 : 90.0



SecciÂn :"V1-SP-6" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	1.207
dch.	Iz	7.000	12.458	-1.207
abajo	Iy	-2.243	-11.121	1.376
arriba	Iy	1.757	14.193	-1.078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00			
8	A1900	(0)	28.50	277.50	250.00			
9	A1900	(0)	28.50	-277.50	303.00			
10	A1900	(0)	28.50	277.50	303.00			
11	A1900	(0)	28.50	-358.00	375.00			
12	A1900	(0)	28.50	358.00	375.00			
13	A1900	(0)	28.50	-320.00	375.00			
14	A1900	(0)	28.50	320.00	375.00			
15	A1900	(0)	28.50	-235.00	375.00			
16	A1900	(0)	28.50	235.00	375.00			
17	A1900	(0)	28.50	-197.00	375.00			
18	A1900	(0)	28.50	197.00	375.00			
19	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00	
20	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00	
21	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00	
22	AEH500	(2)	22.62	695.00	381.00	295.00	390.00	
23	AEH500	(2)	60.32	-295.00	390.00	290.00	390.00	
24	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00	
25	AEH500	(2)	12.77	469.00	371.00	695.00	376.00	
26	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00	
27	AEH500	(2)	9.83	295.00	349.00	469.00	371.00	
28	AEH500	(2)	14.07	-260.00	349.00	-130.00	370.00	
29	AEH500	(2)	14.07	130.00	370.00	260.00	349.00	
30	AEH500	(2)	26.14	-130.00	370.00	130.00	370.00	
31	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00	
32	AEH500	(2)	16.95	295.00	20.00	295.00	350.00	
33	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00	
34	AEH500	(2)	16.95	260.00	20.00	260.00	350.00	

Total: 853.70 CuantÀa de armadura: 0.827 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	2666.660
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)

fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "V1-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
2025.890				-14602.3	

Coeficiente de seguridad 1.157

C lculo Resistencia Ultima: Viga "V1-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
2025.890				7006.280	

Coeficiente de seguridad 1.182

C lculo Resistencia Ultima: Viga "V1-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
943.460				6066.480	

Coeficiente de seguridad 1.588

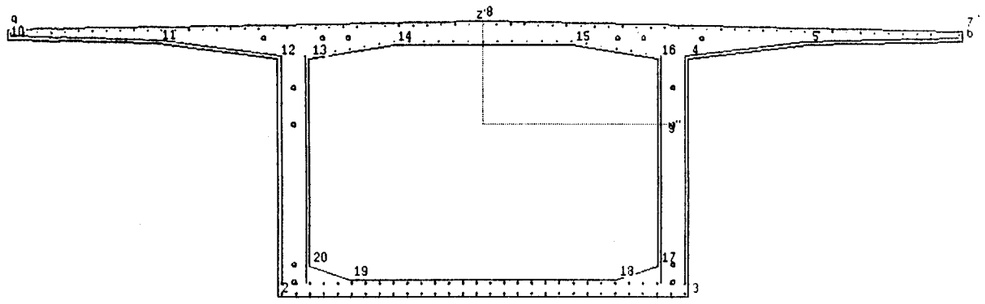
C lculo Resistencia Ultima: Viga "V1-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
943.460				-13784.5	

Coeficiente de seguridad 1.365

Mstb. 1 : 90.0



SecciÂn :"V2-CV-2" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440

Puntos aligeramiento:

13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		

7	A1900	(0)	28.50	-277.50	303.00		
8	A1900	(0)	28.50	277.50	303.00		
9	A1900	(0)	28.50	-320.00	375.00		
10	A1900	(0)	28.50	320.00	375.00		
11	A1900	(0)	28.50	-235.00	375.00		
12	A1900	(0)	28.50	235.00	375.00		
13	A1900	(0)	28.50	-197.00	375.00		
14	A1900	(0)	28.50	197.00	375.00		
15	AEH500	(2)	94.25	-295.00	5.00	295.00	5.00
16	AEH500	(2)	94.25	-295.00	20.00	295.00	20.00
17	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
18	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
19	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
20	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
21	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
22	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
23	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
24	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
25	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
26	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
27	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
28	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
29	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 810.20 CuantÀa de armadura: 0.896 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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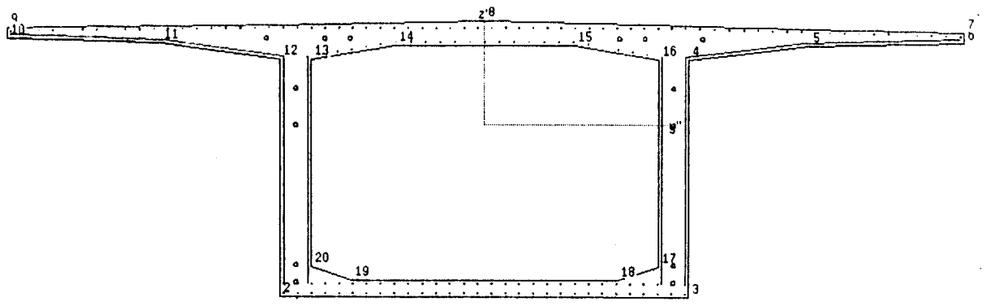
C lculo Resistencia Ultima: Viga "V2-CV-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
943.460				9527.020	

Coeficiente de seguridad 1.082

Mstb. 1 : 90.0



SecciÂn :"V2-NO-2" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		

7	A1900	(0)	28.50	-277.50	303.00		
8	A1900	(0)	28.50	277.50	303.00		
9	A1900	(0)	28.50	-320.00	375.00		
10	A1900	(0)	28.50	320.00	375.00		
11	A1900	(0)	28.50	-235.00	375.00		
12	A1900	(0)	28.50	235.00	375.00		
13	A1900	(0)	28.50	-197.00	375.00		
14	A1900	(0)	28.50	197.00	375.00		
15	AEH500	(2)	60.32	-295.00	5.00	295.00	5.00
16	AEH500	(2)	60.32	-295.00	20.00	295.00	20.00
17	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00
18	AEH500	(2)	22.62	695.00	381.00	295.00	390.00
19	AEH500	(2)	33.93	-295.00	390.00	295.00	390.00
20	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
21	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
22	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
23	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
24	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
25	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
26	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
27	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
28	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
29	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
30	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 742.34 CuantÀa de armadura: 0.821 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	2666.660
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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C lculo Resistencia Ultima: Viga "V2-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
943.460				9285.120	

Coeficiente de seguridad 1.005

C lculo Resistencia Ultima: Viga "V2-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
943.460				9105.760	

Coeficiente de seguridad 1.022

C lculo Resistencia Ultima: Viga "V2-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
943.460				-13151.0	

Coeficiente de seguridad 1.106

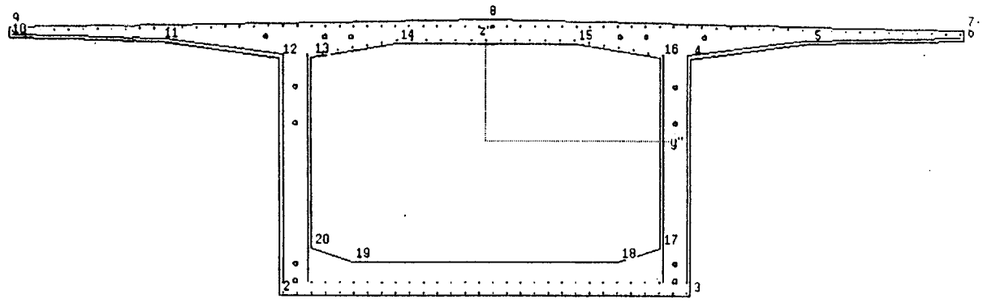
C lculo Resistencia Ultima: Viga "V2-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
943.460				-11403.3	

Coeficiente de seguridad 1.252

Mstb. 1 : 90.0



SecciÂn :"V2-SP-2" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	1.207
dch.	Iz	7.000	12.458	-1.207
abajo	Iy	-2.243	-11.121	1.376
arriba	Iy	1.757	14.193	-1.078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		

7	A1900	(0)	28.50	-277.50	303.00		
8	A1900	(0)	28.50	277.50	303.00		
9	A1900	(0)	28.50	-320.00	375.00		
10	A1900	(0)	28.50	320.00	375.00		
11	A1900	(0)	28.50	-235.00	375.00		
12	A1900	(0)	28.50	235.00	375.00		
13	A1900	(0)	28.50	-197.00	375.00		
14	A1900	(0)	28.50	197.00	375.00		
15	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
16	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
17	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00
18	AEH500	(2)	22.62	695.00	381.00	295.00	390.00
19	AEH500	(2)	60.32	-295.00	390.00	295.00	390.00
20	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
21	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
22	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
23	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
24	AEH500	(2)	14.07	-260.00	349.00	-130.00	370.00
25	AEH500	(2)	14.07	130.00	370.00	260.00	349.00
26	AEH500	(2)	26.14	-130.00	370.00	130.00	370.00
27	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
28	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
29	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
30	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 739.70 CuantÀa de armadura: 0.717 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	2666.660
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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C lculo Resistencia Ultima: Viga "V2-SP-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
943.460				-15447.8	

Coeficiente de seguridad 1.018

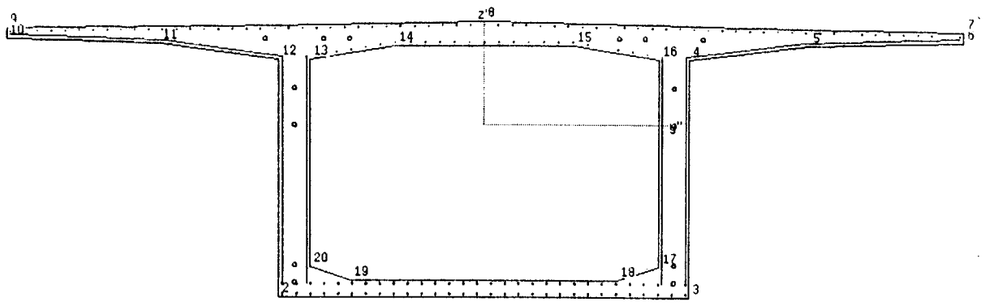
C lculo Resistencia Ultima: Viga "V2-SP-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
943.460				4991.210	

Coeficiente de seguridad 1.511

Mstb. 1 : 90.0



SecciÂn :"V3-CV-2" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		
7	A1900	(0)	28.50	-277.50	303.00		
8	A1900	(0)	28.50	277.50	303.00		
9	A1900	(0)	28.50	-320.00	375.00		
10	A1900	(0)	28.50	320.00	375.00		
11	A1900	(0)	28.50	-235.00	375.00		
12	A1900	(0)	28.50	235.00	375.00		
13	A1900	(0)	28.50	-197.00	375.00		
14	A1900	(0)	28.50	197.00	375.00		
15	AEH500	(2)	94.25	-295.00	5.00	295.00	5.00
16	AEH500	(2)	94.25	-295.00	20.00	295.00	20.00
17	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
18	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
19	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
20	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
21	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
22	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
23	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
24	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
25	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
26	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
27	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
28	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
29	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 810.20 CuantÀa de armadura: 0.896 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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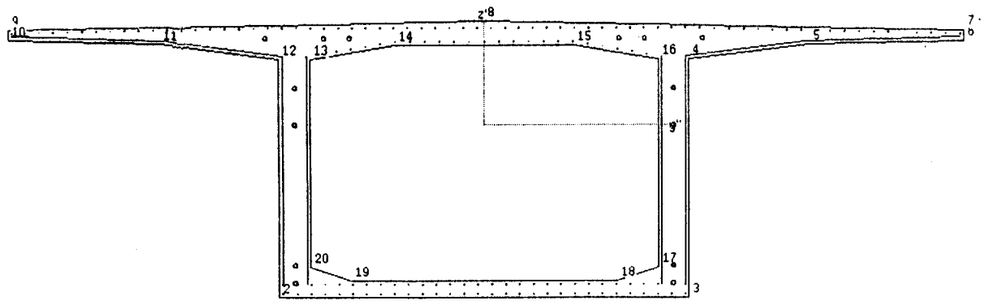
C lculo Resistencia Ultima: Viga "V3-CV-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
819.230				9518.460	

Coeficiente de seguridad 1.099

Mstb. 1 : 90.0



SecciÂn :"V3-NO-2" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades : [m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		

7	A1900	(0)	28.50	-277.50	303.00		
8	A1900	(0)	28.50	277.50	303.00		
9	A1900	(0)	28.50	-320.00	375.00		
10	A1900	(0)	28.50	320.00	375.00		
11	A1900	(0)	28.50	-235.00	375.00		
12	A1900	(0)	28.50	235.00	375.00		
13	A1900	(0)	28.50	-197.00	375.00		
14	A1900	(0)	28.50	197.00	375.00		
15	AEH500	(2)	60.32	-295.00	5.00	295.00	5.00
16	AEH500	(2)	60.32	-295.00	20.00	295.00	20.00
17	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00
18	AEH500	(2)	22.62	295.00	390.00	695.00	381.00
19	AEH500	(2)	33.93	-295.00	390.00	295.00	390.00
20	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
21	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
22	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
23	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
24	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
25	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
26	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
27	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
28	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
29	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
30	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 742.34 CuantÀa de armadura: 0.821 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del normigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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C lculo Resistencia Ultima: Viga "V3-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
819.230				8718.620	

Coeficiente de seguridad 1.079

C lculo Resistencia Ultima: Viga "V3-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
819.230				9204.760	

Coeficiente de seguridad 1.028

C lculo Resistencia Ultima: Viga "V3-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
819.230				-13149.9	

Coeficiente de seguridad 1.124

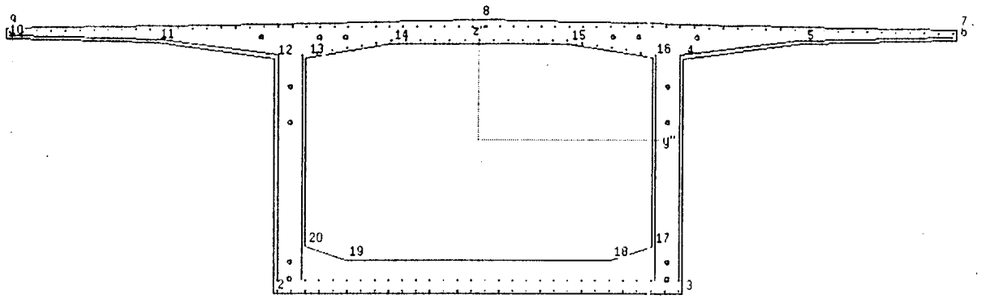
C lculo Resistencia Ultima: Viga "V3-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
819.230				-14732.2	

Coeficiente de seguridad 1.014

Mstb. 1 : 90.0



SecciÂn :"V3-SP-2" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	1.207
dch.	Iz	7.000	12.458	-1.207
abajo	Iy	-2.243	-11.121	1.376
arriba	Iy	1.757	14.193	-1.078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		

7	A1900	(0)	28.50	-277.50	303.00			
8	A1900	(0)	28.50	277.50	303.00			
9	A1900	(0)	28.50	-320.00	375.00			
10	A1900	(0)	28.50	320.00	375.00			
11	A1900	(0)	28.50	-235.00	375.00			
12	A1900	(0)	28.50	235.00	375.00			
13	A1900	(0)	28.50	-197.00	375.00			
14	A1900	(0)	28.50	197.00	375.00			
15	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00	
16	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00	
17	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00	
18	AEH500	(2)	22.62	295.00	390.00	695.00	381.00	
19	AEH500	(2)	60.32	-295.00	390.00	295.00	390.00	
20	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00	
21	AEH500	(2)	12.77	469.00	371.00	695.00	376.00	
22	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00	
23	AEH500	(2)	9.83	295.00	349.00	469.00	371.00	
24	AEH500	(2)	14.07	-260.00	349.00	-130.00	370.00	
25	AEH500	(2)	14.07	130.00	370.00	260.00	349.00	
26	AEH500	(2)	26.14	-130.00	370.00	130.00	370.00	
27	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00	
28	AEH500	(2)	16.95	295.00	20.00	295.00	350.00	
29	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00	
30	AEH500	(2)	16.95	260.00	20.00	260.00	350.00	

Total: 739.70 CuantÀa de armadura: 0.717 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	2666.660
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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C lculo Resistencia Ultima: Viga "V3-SP-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
819.230				-15447.8	

Coeficiente de seguridad 1.032

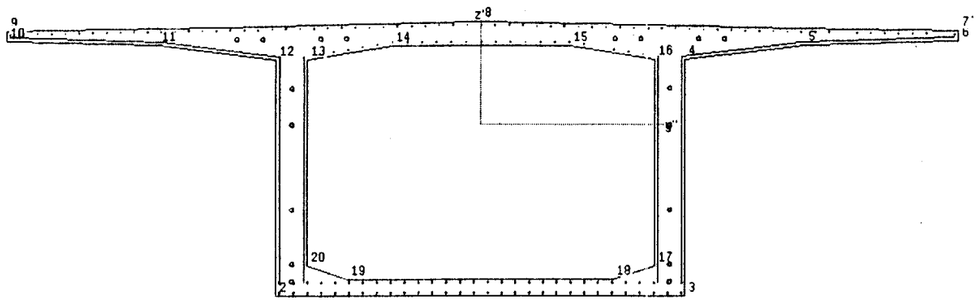
C lculo Resistencia Ultima: Viga "V3-SP-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
819.230				5334.450	

Coeficiente de seguridad 1.475

Mstb. 1 : 90.0



SecciÂn :"V4-CV-6" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00		
8	A1900	(0)	28.50	277.50	250.00		
9	A1900	(0)	28.50	-277.50	303.00		
10	A1900	(0)	28.50	277.50	303.00		
11	A1900	(0)	28.50	-358.00	375.00		
12	A1900	(0)	28.50	358.00	375.00		
13	A1900	(0)	28.50	-320.00	375.00		
14	A1900	(0)	28.50	320.00	375.00		
15	A1900	(0)	28.50	-235.00	375.00		
16	A1900	(0)	28.50	235.00	375.00		
17	A1900	(0)	28.50	-197.00	375.00		
18	A1900	(0)	28.50	197.00	375.00		
19	AEH500	(2)	94.25	-295.00	5.00	295.00	5.00
20	AEH500	(2)	94.25	-295.00	20.00	295.00	20.00
21	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
22	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
23	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
24	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
25	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
26	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
27	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
28	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
29	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
30	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
31	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
32	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
33	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 924.20 CuantÀa de armadura: 1.022 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn

fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

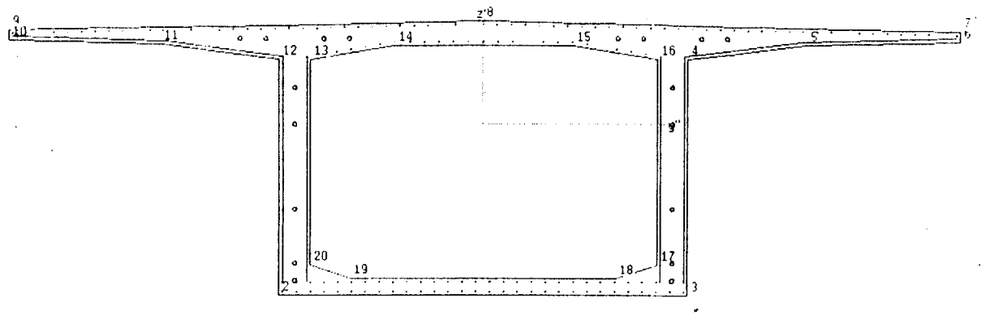
C lculo Resistencia Ultima: Viga "V4-CV-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
691.460				11344.6	

Coeficiente de seguridad 1.127

Mstb. 1 : 90.0



SecciÂn :"V4-NO-6" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00		
8	A1900	(0)	28.50	277.50	250.00		
9	A1900	(0)	28.50	-277.50	303.00		
10	A1900	(0)	28.50	277.50	303.00		
11	A1900	(0)	28.50	-358.00	375.00		
12	A1900	(0)	28.50	358.00	375.00		
13	A1900	(0)	28.50	-320.00	375.00		
14	A1900	(0)	28.50	320.00	375.00		
15	A1900	(0)	28.50	-235.00	375.00		
16	A1900	(0)	28.50	235.00	375.00		
17	A1900	(0)	28.50	-197.00	375.00		
18	A1900	(0)	28.50	197.00	375.00		
19	AEH500	(2)	60.32	-295.00	5.00	295.00	5.00
20	AEH500	(2)	60.32	-295.00	20.00	295.00	20.00
21	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
22	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
23	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
24	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
25	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
26	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
27	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
28	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
29	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
30	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
31	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
32	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
33	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 856.34 CuantÀa de armadura: 0.947 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn

fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "V4-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
691.460				10486.4	

Coeficiente de seguridad 1.119

C lculo Resistencia Ultima: Viga "V4-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
691.460				10138.9	

Coeficiente de seguridad 1.154

C lculo Resistencia Ultima: Viga "V4-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
691.460				-14351.2	

Coeficiente de seguridad 1.215

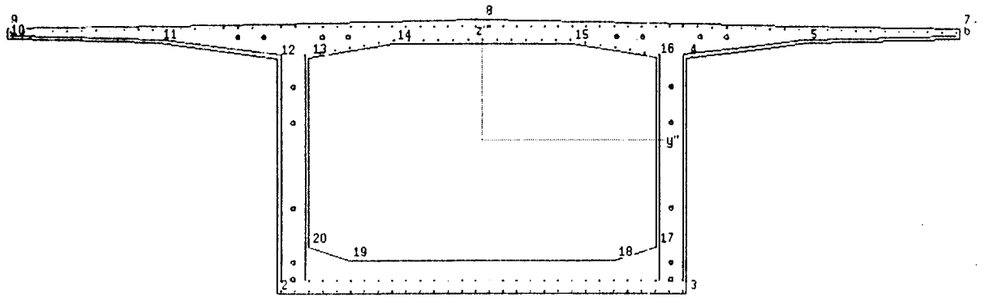
C lculo Resistencia Ultima: Viga "V4-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
691.460				-15726.6	

Coeficiente de seguridad 1.113

Mstb. 1 : 90.0



SecciÂn :"V4-SP-6" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440

Puntos aligeramiento:

13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	1.207
dch.	Iz	7.000	12.458	-1.207
abajo	Iy	-2.243	-11.121	1.376
arriba	Iy	1.757	14.193	-1.078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00			
8	A1900	(0)	28.50	277.50	250.00			
9	A1900	(0)	28.50	-277.50	303.00			
10	A1900	(0)	28.50	277.50	303.00			
11	A1900	(0)	28.50	-358.00	375.00			
12	A1900	(0)	28.50	358.00	375.00			
13	A1900	(0)	28.50	-320.00	375.00			
14	A1900	(0)	28.50	320.00	375.00			
15	A1900	(0)	28.50	-235.00	375.00			
16	A1900	(0)	28.50	235.00	375.00			
17	A1900	(0)	28.50	-197.00	375.00			
18	A1900	(0)	28.50	197.00	375.00			
19	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00	
20	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00	
21	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00	
22	AEH500	(2)	22.62	295.00	390.00	695.00	381.00	
23	AEH500	(2)	60.32	-295.00	390.00	295.00	390.00	
24	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00	
25	AEH500	(2)	12.77	469.00	371.00	695.00	376.00	
26	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00	
27	AEH500	(2)	9.83	295.00	349.00	469.00	371.00	
28	AEH500	(2)	14.07	-260.00	349.00	-130.00	370.00	
29	AEH500	(2)	14.07	130.00	370.00	260.00	349.00	
30	AEH500	(2)	26.14	-130.00	370.00	130.00	370.00	
31	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00	
32	AEH500	(2)	16.95	295.00	20.00	295.00	350.00	
33	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00	
34	AEH500	(2)	16.95	260.00	20.00	260.00	350.00	

Total: 853.70 CuantÀa de armadura: 0.827 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)

C lculo Resistencia Ultima: Viga "V4-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
691.460				-18360.5	

Coeficiente de seguridad 1.076

C lculo Resistencia Ultima: Viga "V4-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
691.460				-17071.0	

Coeficiente de seguridad 1.152

C lculo Resistencia Ultima: Viga "V4-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
819.230				-17071.0	

Coeficiente de seguridad 1.138

C lculo Resistencia Ultima: Viga "V4-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
819.230				6144.970	

Coeficiente de seguridad 1.611

C lculo Resistencia Ultima: Viga "V4-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
691.460				6135.920	

Coeficiente de seguridad 1.656

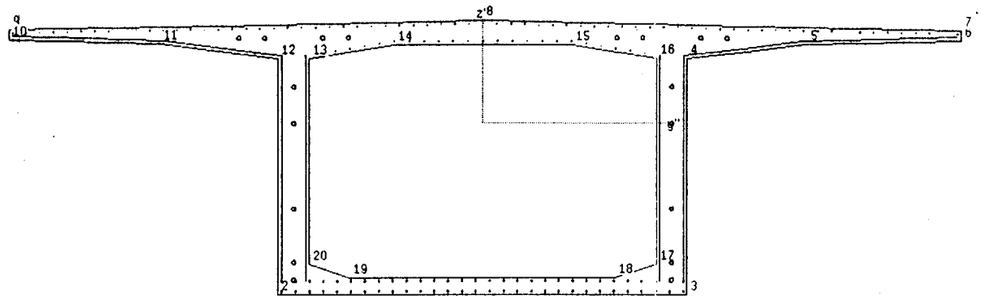
C lculo Resistencia Ultima: Viga "V4-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
691.460				5625.130	

Coeficiente de seguridad 1.783

Mstb. 1 : 90.0



SecciÂn :"V5-CV-6" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00			
8	A1900	(0)	28.50	277.50	250.00			
9	A1900	(0)	28.50	-277.50	303.00			
10	A1900	(0)	28.50	277.50	303.00			
11	A1900	(0)	28.50	-358.00	375.00			
12	A1900	(0)	28.50	358.00	375.00			
13	A1900	(0)	28.50	-320.00	375.00			
14	A1900	(0)	28.50	320.00	375.00			
15	A1900	(0)	28.50	-235.00	375.00			
16	A1900	(0)	28.50	235.00	375.00			
17	A1900	(0)	28.50	-197.00	375.00			
18	A1900	(0)	28.50	197.00	375.00			
19	AEH500	(2)	94.25	-295.00	5.00	295.00	5.00	
20	AEH500	(2)	94.25	-295.00	20.00	295.00	20.00	
21	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00	
22	AEH500	(2)	39.58	0.00	395.00	695.00	381.00	
23	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00	
24	AEH500	(2)	12.77	469.00	371.00	695.00	376.00	
25	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00	
26	AEH500	(2)	9.83	295.00	349.00	469.00	371.00	
27	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00	
28	AEH500	(2)	7.92	130.00	370.00	260.00	349.00	
29	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00	
30	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00	
31	AEH500	(2)	16.95	295.00	20.00	295.00	350.00	
32	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00	
33	AEH500	(2)	16.95	260.00	20.00	260.00	350.00	

Total: 924.20 CuantÀa de armadura: 1.022 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn

fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

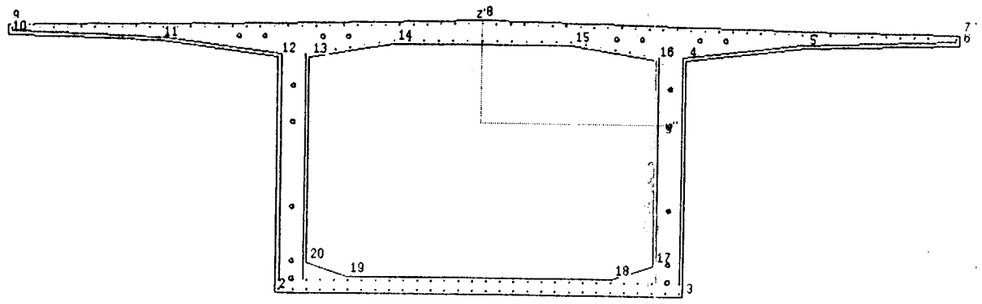
C lculo Resistencia Ultima: Viga "V5-CV-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
557.810				11336.1	

Coeficiente de seguridad 1.143

Mstb. 1 : 90.0



SecciÂn :"V5-NO-6" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00		
8	A1900	(0)	28.50	277.50	250.00		
9	A1900	(0)	28.50	-277.50	303.00		
10	A1900	(0)	28.50	277.50	303.00		
11	A1900	(0)	28.50	-358.00	375.00		
12	A1900	(0)	28.50	358.00	375.00		
13	A1900	(0)	28.50	-320.00	375.00		
14	A1900	(0)	28.50	320.00	375.00		
15	A1900	(0)	28.50	-235.00	375.00		
16	A1900	(0)	28.50	235.00	375.00		
17	A1900	(0)	28.50	-197.00	375.00		
18	A1900	(0)	28.50	197.00	375.00		
19	AEH500	(2)	60.32	-295.00	5.00	295.00	5.00
20	AEH500	(2)	60.32	-295.00	20.00	295.00	20.00
21	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
22	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
23	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
24	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
25	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
26	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
27	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
28	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
29	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
30	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
31	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
32	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
33	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 856.34 CuantÀa de armadura: 0.947 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn

fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "V5-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
557.810				10232.9	

Coeficiente de seguridad 1.162

C lculo Resistencia Ultima: Viga "V5-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
557.810				10447.8	

Coeficiente de seguridad 1.139

C lculo Resistencia Ultima: Viga "V5-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
557.810				-15715.1	

Coeficiente de seguridad 1.122

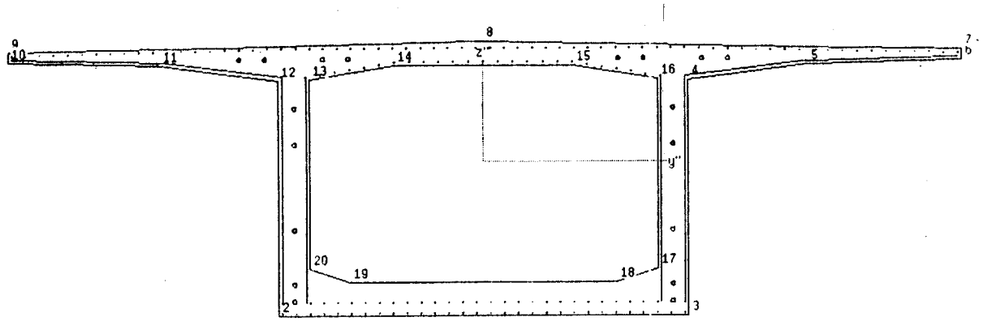
C lculo Resistencia Ultima: Viga "V5-NO-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
557.810				-14460.1	

Coeficiente de seguridad 1.216

Mstb. 1 : 90.0



SecciÂn :"V5-SP-6" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	1.207
dch.	Iz	7.000	12.458	-1.207
abajo	Iy	-2.243	-11.121	1.376
arriba	Iy	1.757	14.193	-1.078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	126.00		
6	A1900	(0)	28.50	277.50	126.00		

7	A1900	(0)	28.50	-277.50	250.00		
8	A1900	(0)	28.50	277.50	250.00		
9	A1900	(0)	28.50	-277.50	303.00		
10	A1900	(0)	28.50	277.50	303.00		
11	A1900	(0)	28.50	-358.00	375.00		
12	A1900	(0)	28.50	358.00	375.00		
13	A1900	(0)	28.50	-320.00	375.00		
14	A1900	(0)	28.50	320.00	375.00		
15	A1900	(0)	28.50	-235.00	375.00		
16	A1900	(0)	28.50	235.00	375.00		
17	A1900	(0)	28.50	-197.00	375.00		
18	A1900	(0)	28.50	197.00	375.00		
19	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
20	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
21	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00
22	AEH500	(2)	22.62	295.00	390.00	695.00	381.00
23	AEH500	(2)	60.32	-295.00	390.00	295.00	390.00
24	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
25	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
26	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
27	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
28	AEH500	(2)	14.07	-260.00	349.00	-130.00	370.00
29	AEH500	(2)	14.07	130.00	370.00	260.00	349.00
30	AEH500	(2)	26.14	-130.00	370.00	130.00	370.00
31	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
32	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
33	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
34	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 853.70 CuantÀa de armadura: 0.827 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003	15	5.700E-0003
16	5.700E-0003	17	5.700E-0003	18	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÂn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)

/"B1"

Unidades : [tm]

My	Mz	
-18360.5		
	.....	1.089

/"B1"

Unidades : [tm]

My	Mz	
-17137.8		
	.....	1.162

/"B1"

Unidades : [tm]

My	Mz	
-17137.8		
	.....	1.176

/"B1"

Unidades : [tm]

My	Mz	
6243.870		
	.....	1.724

C lculo Resistencia Ultima: Viga "V5-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
557.810				5677.890	

Coeficiente de seguridad 1.823

C lculo Resistencia Ultima: Viga "V5-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
557.810				6131.520	

Coeficiente de seguridad 1.704

C lculo Resistencia Ultima: Viga "V5-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
557.810				-18360.5	

Coeficiente de seguridad 1.089

C lculo Resistencia Ultima: Viga "V5-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
557.810				-17137.8	

Coeficiente de seguridad 1.162

C lculo Resistencia Ultima: Viga "V5-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
429.960				-17137.8	

Coeficiente de seguridad 1.176

C lculo Resistencia Ultima: Viga "V5-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
429.960				6243.870	

Coeficiente de seguridad 1.724

C lculo Resistencia Ultima: Viga "V5-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
557.810				5677.890	

Coeficiente de seguridad 1.823

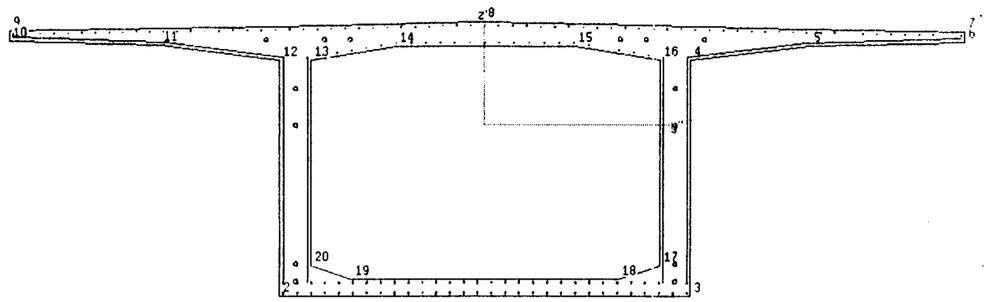
C lculo Resistencia Ultima: Viga "V5-SP-6"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
557.810				6131.520	

Coeficiente de seguridad 1.704

Mstb. 1 : 90.0



SecciÂn :"V6-CV-2" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		

7	A1900	(0)	28.50	-277.50	303.00		
8	A1900	(0)	28.50	277.50	303.00		
9	A1900	(0)	28.50	-320.00	375.00		
10	A1900	(0)	28.50	320.00	375.00		
11	A1900	(0)	28.50	-235.00	375.00		
12	A1900	(0)	28.50	235.00	375.00		
13	A1900	(0)	28.50	-197.00	375.00		
14	A1900	(0)	28.50	197.00	375.00		
15	AEH500	(2)	94.25	-295.00	5.00	295.00	5.00
16	AEH500	(2)	94.25	-295.00	20.00	295.00	20.00
17	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
18	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
19	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
20	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
21	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
22	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
23	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
24	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
25	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
26	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
27	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
28	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
29	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 810.20 CuantÀa de armadura: 0.896 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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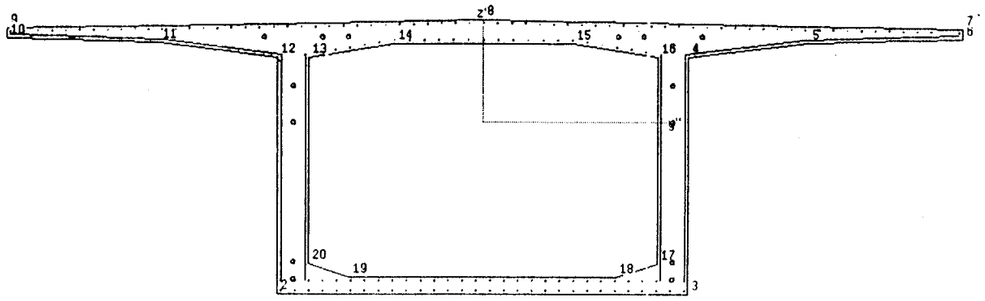
C lculo Resistencia Ultima: Viga "V6-CV-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
429.960				9783.390	

Coeficiente de seguridad 1.122

Mstb. 1 : 90.0



SecciÂn :"V6-NO-2" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		

7	A1900	(0)	28.50	-277.50	303.00		
8	A1900	(0)	28.50	277.50	303.00		
9	A1900	(0)	28.50	-320.00	375.00		
10	A1900	(0)	28.50	320.00	375.00		
11	A1900	(0)	28.50	-235.00	375.00		
12	A1900	(0)	28.50	235.00	375.00		
13	A1900	(0)	28.50	-197.00	375.00		
14	A1900	(0)	28.50	197.00	375.00		
15	AEH500	(2)	60.32	-295.00	5.00	295.00	5.00
16	AEH500	(2)	60.32	-295.00	20.00	295.00	20.00
17	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
18	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
19	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
20	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
21	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
22	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
23	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
24	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
25	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
26	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
27	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
28	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
29	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 742.34 CuantÀa de armadura: 0.821 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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C lculo Resistencia Ultima: Viga "V6-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
429.960				9360.210	

Coeficiente de seguridad 1.062

C lculo Resistencia Ultima: Viga "V6-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
429.960				9506.600	

Coeficiente de seguridad 1.047

C lculo Resistencia Ultima: Viga "V6-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
429.960				-14750.2	

Coeficiente de seguridad 1.057

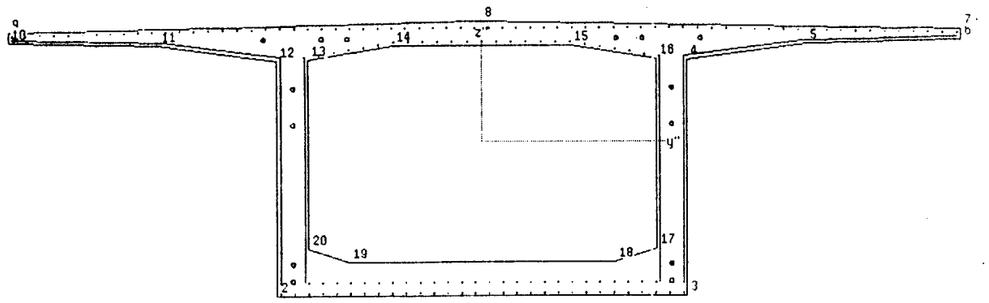
C lculo Resistencia Ultima: Viga "V6-NO-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
429.960				-13400.4	

Coeficiente de seguridad 1.159

Mstb. 1 : 90.0



SecciÂn :"V6-SP-2" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	1.207
dch.	Iz	7.000	12.458	-1.207
abajo	Iy	-2.243	-11.121	1.376
arriba	Iy	1.757	14.193	-1.078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	250.00		
6	A1900	(0)	28.50	277.50	250.00		

7	A1900	(0)	28.50	-277.50	303.00		
8	A1900	(0)	28.50	277.50	303.00		
9	A1900	(0)	28.50	-320.00	375.00		
10	A1900	(0)	28.50	320.00	375.00		
11	A1900	(0)	28.50	-235.00	375.00		
12	A1900	(0)	28.50	235.00	375.00		
13	A1900	(0)	28.50	-197.00	375.00		
14	A1900	(0)	28.50	197.00	375.00		
15	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
16	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
17	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00
18	AEH500	(2)	22.62	695.00	381.00	295.00	390.00
19	AEH500	(2)	60.32	-295.00	390.00	295.00	390.00
20	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
21	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
22	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
23	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
24	AEH500	(2)	14.07	-260.00	349.00	-130.00	370.00
25	AEH500	(2)	14.07	130.00	370.00	260.00	349.00
26	AEH500	(2)	26.14	-130.00	370.00	130.00	370.00
27	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
28	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
29	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
30	AEH500	(2)	16.95	260.00	20.00	260.00	350.00
Total:			739.70	CuantÀa de armadura: 0.717 [o/o]			

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003
13	5.700E-0003	14	5.700E-0003		

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "V6-SP-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
429.960				-15686.6	

Coeficiente de seguridad 1.062

C lculo Resistencia Ultima: Viga "V6-SP-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
429.960				6539.280	

Coeficiente de seguridad 1.348

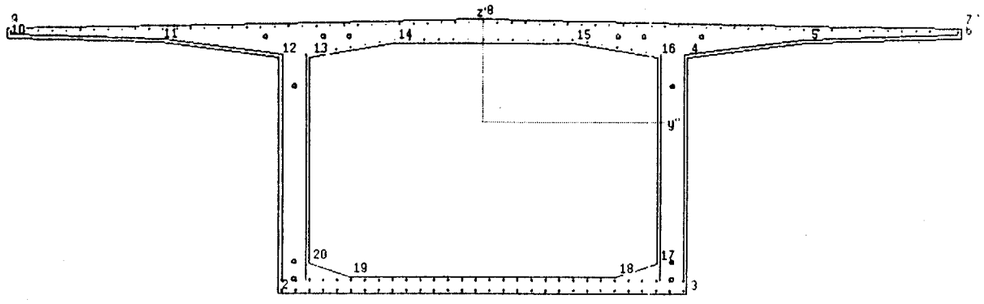
C lculo Resistencia Ultima: Viga "V6-SP-2"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
181.830				-15399.2	

Coeficiente de seguridad 1.113

Mstb. 1 : 90.0



SecciÂn :"V8-CV-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		

7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	94.25	-295.00	5.00	295.00	5.00
14	AEH500	(2)	94.25	-295.00	20.00	295.00	20.00
15	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
16	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
17	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
18	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
19	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
20	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
21	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
22	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
23	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
24	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
25	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
26	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
27	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 753.20 CuantÀa de armadura: 0.833 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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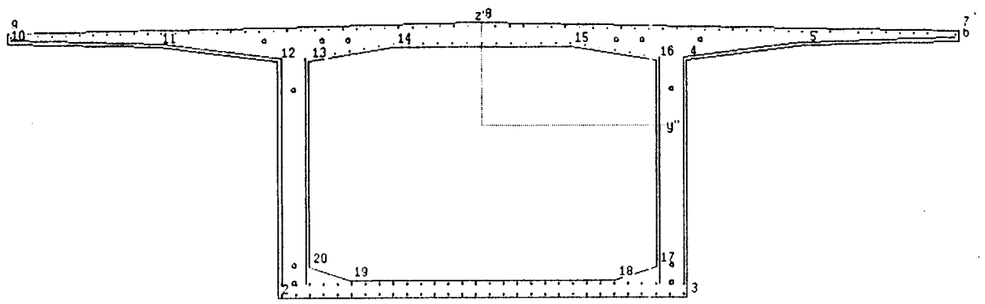
C lculo Resistencia Ultima: Viga "V8-CV-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
181.830				9840.130	

Coeficiente de seguridad 1.041

Mstb. 1 : 90.0



SecciÂn :"V8-NO-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		

7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	94.25	-295.00	5.00	295.00	5.00
14	AEH500	(2)	94.25	-295.00	20.00	295.00	20.00
15	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
16	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
17	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
18	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
19	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
20	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
21	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
22	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
23	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
24	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
25	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
26	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
27	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 753.20 CuantÀa de armadura: 0.833 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "V8-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
181.830				9588.520	

Coeficiente de seguridad 1.067

C lculo Resistencia Ultima: Viga "V8-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
181.830				9477.770	

Coeficiente de seguridad 1.080

C lculo Resistencia Ultima: Viga "V8-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
181.830				-13136.1	

Coeficiente de seguridad 1.110

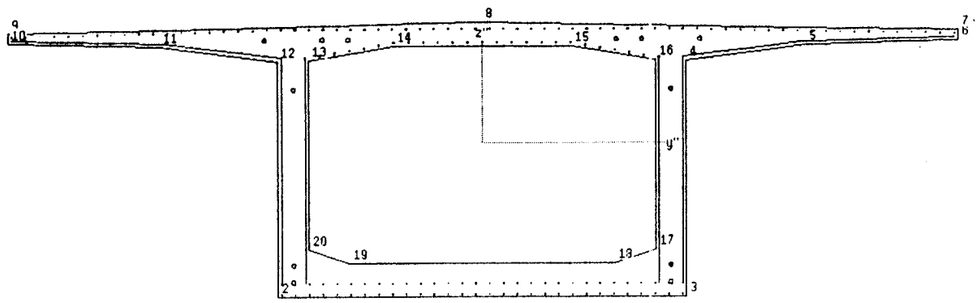
C lculo Resistencia Ultima: Viga "V8-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
181.830				-13249.8	

Coeficiente de seguridad 1.101

Mstb. 1 : 90.0



SecciÂn :"V8-SP-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440

Puntos aligeramiento:

13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	1.207
dch.	Iz	7.000	12.458	-1.207
abajo	Iy	-2.243	-11.121	1.376
arriba	Iy	1.757	14.193	-1.078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		

7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
14	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
15	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00
16	AEH500	(2)	22.62	695.00	381.00	295.00	390.00
17	AEH500	(2)	94.25	-295.00	390.00	296.00	390.00
18	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
19	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
20	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
21	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
22	AEH500	(2)	21.99	-260.00	349.00	-130.00	370.00
23	AEH500	(2)	21.99	130.00	370.00	260.00	349.00
24	AEH500	(2)	40.84	-130.00	370.00	130.00	370.00
25	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
26	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
27	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
28	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 747.17 CuantÀa de armadura: 0.724 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "V8-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
181.830				-15399.2	

Coeficiente de seguridad 1.054

C lculo Resistencia Ultima: Viga "V8-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
181.830				-15508.6	

Coeficiente de seguridad 1.047

C lculo Resistencia Ultima: Viga "V8-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
181.830				6663.390	

Coeficiente de seguridad 1.238

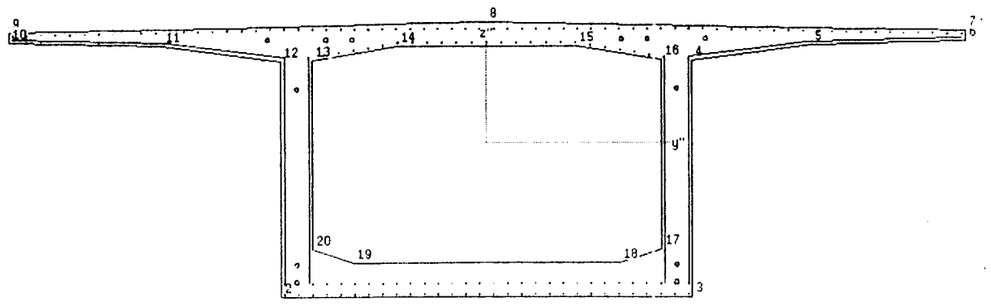
C lculo Resistencia Ultima: Viga "V8-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
181.830				6522.650	

Coeficiente de seguridad 1.264

Mstb. 1 : 90.0



SecciÂn :"V10-SP-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440

Puntos aligeramiento:

13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	1.207
dch.	Iz	7.000	12.458	-1.207
abajo	Iy	-2.243	-11.121	1.376
arriba	Iy	1.757	14.193	-1.078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		

7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
14	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
15	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00
16	AEH500	(2)	22.62	695.00	381.00	295.00	390.00
17	AEH500	(2)	60.32	-295.00	390.00	296.00	390.00
18	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
19	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
20	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
21	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
22	AEH500	(2)	14.07	-260.00	349.00	-130.00	370.00
23	AEH500	(2)	14.07	130.00	370.00	260.00	349.00
24	AEH500	(2)	26.14	-130.00	370.00	130.00	370.00
25	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
26	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
27	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
28	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 682.70 CuantÀa de armadura: 0.662 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "V10-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-66.950				-15399.2	

Coeficiente de seguridad 1.024

C lculo Resistencia Ultima: Viga "V10-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-66.950				-15508.6	

Coeficiente de seguridad 1.016

C lculo Resistencia Ultima: Viga "V10-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-66.950				6663.390	

Coeficiente de seguridad 1.308

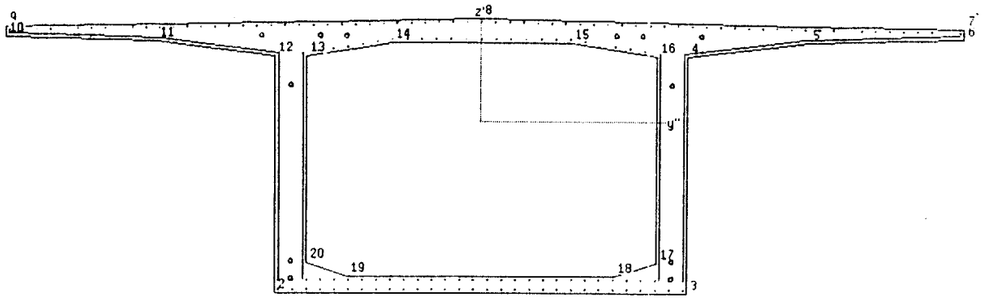
C lculo Resistencia Ultima: Viga "V10-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-66.950				6522.650	

Coeficiente de seguridad 1.336

Mstb. 1 : 90.0



SecciÂn :"V14-CV-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440

Puntos aligeramiento:

13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		

7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	60.32	-295.00	5.00	295.00	5.00
14	AEH500	(2)	60.32	-295.00	20.00	295.00	20.00
15	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
16	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
17	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
18	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
19	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
20	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
21	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
22	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
23	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
24	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
25	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
26	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
27	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 685.34 CuantÀa de armadura: 0.758 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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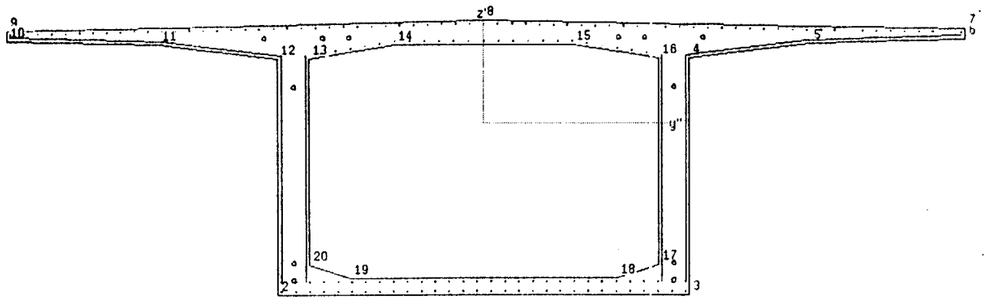
C lculo Resistencia Ultima: Viga "V14-CV-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-565.310				9840.130	

Coeficiente de seguridad 1.029

Mstb. 1 : 90.0



SecciÂn :"V14-NO-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440

Puntos aligeramiento:

13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		

7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	60.32	-295.00	5.00	295.00	5.00
14	AEH500	(2)	60.32	-295.00	20.00	295.00	20.00
15	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
16	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
17	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
18	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
19	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
20	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
21	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
22	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
23	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
24	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
25	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
26	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
27	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 685.34 CuantÀa de armadura: 0.758 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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C lculo Resistencia Ultima: Viga "V14-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-565.310				9588.520	

Coeficiente de seguridad 1.059

C lculo Resistencia Ultima: Viga "V14-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-565.310				9477.770	

Coeficiente de seguridad 1.072

C lculo Resistencia Ultima: Viga "V14-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-565.310				-13136.1	

Coeficiente de seguridad 1.218

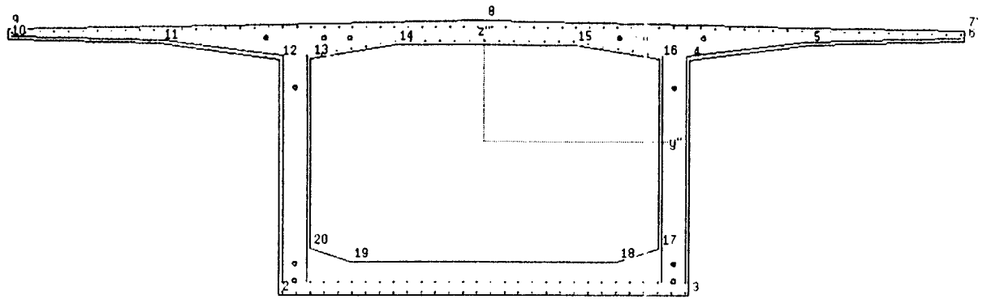
C lculo Resistencia Ultima: Viga "V14-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-565.310				-13249.8	

Coeficiente de seguridad 1.207

Mstb. 1 : 90.0



SecciÂn :"V14-SP-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440

Puntos aligeramiento:

13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	1.207
dch.	Iz	7.000	12.458	-1.207
abajo	Iy	-2.243	-11.121	1.376
arriba	Iy	1.757	14.193	-1.078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		

7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
14	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
15	AEH500	(2)	22.62	-695.00	381.00	-295.00	390.00
16	AEH500	(2)	22.62	695.00	381.00	295.00	390.00
17	AEH500	(2)	33.93	-295.00	390.00	296.00	390.00
18	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
19	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
20	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
21	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
22	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
23	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
24	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
25	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
26	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
27	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
28	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 632.56 CuantÀa de armadura: 0.613 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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C lculo Resistencia Ultima: Viga "V14-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-565.310				-15399.2	

Coeficiente de seguridad 1.038

C lculo Resistencia Ultima: Viga "V14-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-565.310				-15508.6	

Coeficiente de seguridad 1.031

C lculo Resistencia Ultima: Viga "V14-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-565.310				6663.390	

Coeficiente de seguridad 1.475

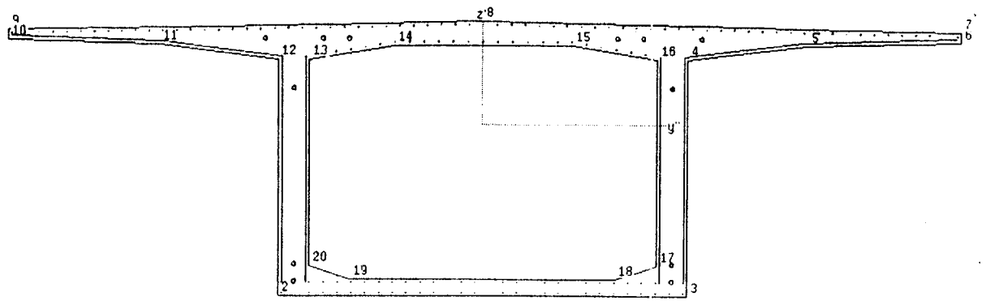
C lculo Resistencia Ultima: Viga "V14-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-565.310				6522.650	

Coeficiente de seguridad 1.511

Mstb. 1 : 90.0



SecciÂn :"V18-CV-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		
7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
14	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
15	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
16	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
17	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
18	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
19	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
20	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
21	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
22	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
23	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
24	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
25	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
26	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
27	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 632.56 CuantÀa de armadura: 0.700 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

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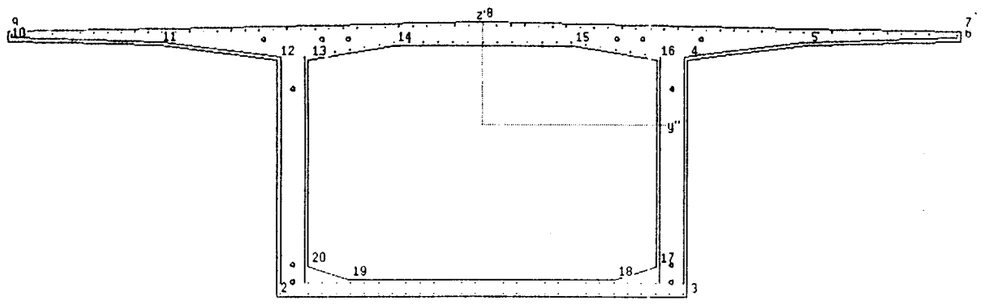
C lculo Resistencia Ultima: Viga "V18-CV-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1346.410				9840.130	

Coeficiente de seguridad 1.049

Mstb. 1 : 90.0



SecciÂn :"V18-NO-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	[illegible]
dch.	Iz	7.000	12.063	-[illegible]
abajo	Iy	-2.503	-7.984	[illegible]
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		

7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
14	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
15	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
16	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
17	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
18	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
19	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
20	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
21	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
22	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
23	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
24	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
25	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
26	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
27	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 632.56 CuantÀa de armadura: 0.700 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccIÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "V18-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1338.700				9588.520	

Coeficiente de seguridad 1.081

C lculo Resistencia Ultima: Viga "V18-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1384.980				9477.770	

Coeficiente de seguridad 1.105

C lculo Resistencia Ultima: Viga "V18-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1009.930				-13136.1	

Coeficiente de seguridad 1.257

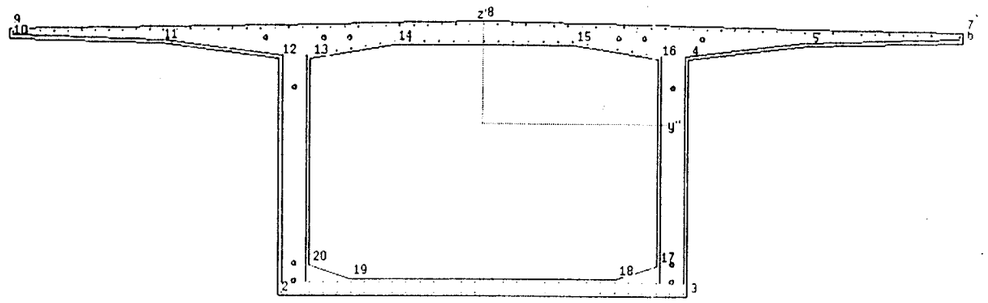
C lculo Resistencia Ultima: Viga "V18-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1160.360				-13249.8	

Coeficiente de seguridad 1.263

Mstb. 1 : 90.0



SecciÂn :"V22-CV-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	1.334
dch.	Iz	7.000	12.063	-1.334
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		

7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
14	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
15	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
16	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
17	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
18	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
19	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
20	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
21	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
22	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
23	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
24	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
25	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
26	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
27	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 632.56 CuantÀa de armadura: 0.700 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

---

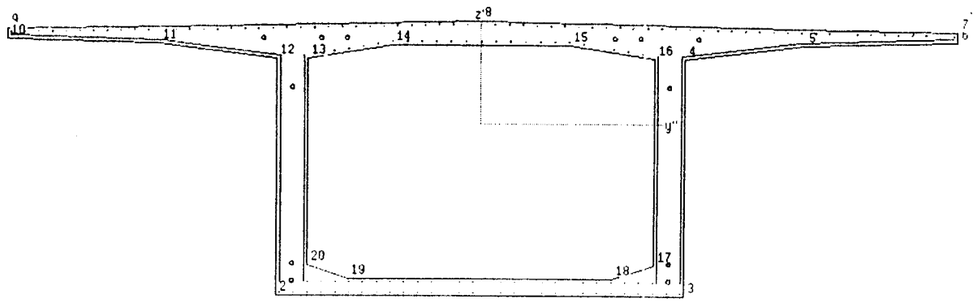
C lculo Resistencia Ultima: Viga "V22-CV-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1503.070				10112.5	

Coeficiente de seguridad 1.039

Mstb. 1 : 90.0



SecciÂn :"V22-NO-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440

Puntos aligeramiento:

13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.450	18	1.950	0.250
19	-1.950	0.250	20	-2.550	0.450

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 9.043 [m2]
Momentos de inercia : Iy= 19.983 [m4] Iz= 84.440 [m4]
Inercia a torsiÂn : Ix= 13.014 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.503 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.063	[illegible]
dch.	Iz	7.000	12.063	-[illegible]
abajo	Iy	-2.503	-7.984	1.476
arriba	Iy	1.497	13.347	-0.883

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		

7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
14	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
15	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
16	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
17	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
18	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
19	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
20	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
21	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
22	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
23	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
24	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
25	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
26	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
27	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 632.56 CuantÀa de armadura: 0.700 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a tracciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

C lculo Resistencia Ultima: Viga "V22-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1496.800				9855.540	

Coeficiente de seguridad 1.071

C lculo Resistencia Ultima: Viga "V22-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1543.810				8403.610	

Coeficiente de seguridad 1.320

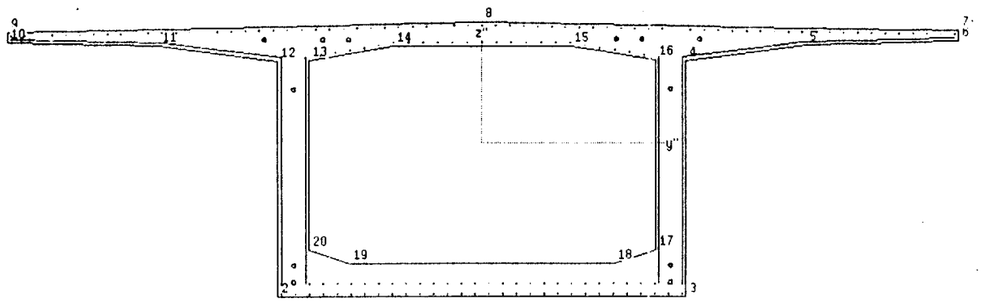
C lculo Resistencia Ultima: Viga "V22-NO-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1446.660				-12768.2	

Coeficiente de seguridad 1.342

Mstb. 1 : 90.0



SecciÂn :"V22-SP-0" Armadura :"B1"
Tipo : tipo viga/ Genrico Unidades :[m]

SecciÂn parcial 1: HormigÂn = H400

Pto	Coord-Y	Coord-Z	Pto	Coord-Y	Coord-Z
1	-3.000	0.000	2	-3.000	0.000
3	3.000	0.000	4	3.000	3.440
5	4.750	3.660	6	7.000	3.710
7	7.000	3.860	8	0.000	4.000
9	-7.000	3.860	10	-7.000	3.710
11	-4.750	3.660	12	-3.000	3.440
Puntos aligeramiento:					
13	-2.550	3.450	14	-1.300	3.650
15	1.300	3.650	16	2.550	3.450
17	2.550	0.700	18	1.950	0.500
19	-1.950	0.500	20	-2.550	0.700

CaracterÀsticas mec nicas de la secciÂn:
Area : Ax= 10.318 [m2]
Momentos de inercia : Iy= 24.941 [m4] Iz= 87.203 [m4]
Inercia a torsiÂn : Ix= 16.942 [m4] (de un cÀrculo del mismo rea)

PosiciÂn del centro de gravedad: ys= 0.000 [m] zs= 2.243 [m]

	I:	R=dist.borde [m]	W=I/R [m3]	W/Ax [m]
izq.	Iz	-7.000	-12.458	[illegible].207
dch.	Iz	7.000	12.458	-[illegible].207
abajo	Iy	-2.243	-11.121	[illegible].376
arriba	Iy	1.757	14.193	-[illegible].078

Armadura: "B1"

NÏ	Nom.mat	Cod.dim.	Area [cm2]	y1 [cm]	z1 [cm]	y2 [cm]	z2 [cm]
1	A1900	(0)	28.50	-277.50	22.00		
2	A1900	(0)	28.50	277.50	22.00		
3	A1900	(0)	28.50	-277.50	47.00		
4	A1900	(0)	28.50	277.50	47.00		
5	A1900	(0)	28.50	-277.50	303.00		
6	A1900	(0)	28.50	277.50	303.00		

7	A1900	(0)	28.50	-320.00	375.00		
8	A1900	(0)	28.50	320.00	375.00		
9	A1900	(0)	28.50	-235.00	375.00		
10	A1900	(0)	28.50	235.00	375.00		
11	A1900	(0)	28.50	-197.00	375.00		
12	A1900	(0)	28.50	197.00	375.00		
13	AEH500	(2)	33.93	-295.00	5.00	295.00	5.00
14	AEH500	(2)	33.93	-295.00	20.00	295.00	20.00
15	AEH500	(2)	39.58	-695.00	381.00	0.00	395.00
16	AEH500	(2)	39.58	0.00	395.00	695.00	381.00
17	AEH500	(2)	12.77	-695.00	376.00	-469.00	371.00
18	AEH500	(2)	12.77	469.00	371.00	695.00	376.00
19	AEH500	(2)	9.83	-469.00	371.00	-295.00	349.00
20	AEH500	(2)	9.83	295.00	349.00	469.00	371.00
21	AEH500	(2)	7.92	-260.00	349.00	-130.00	370.00
22	AEH500	(2)	7.92	130.00	370.00	260.00	349.00
23	AEH500	(2)	14.70	-130.00	370.00	130.00	370.00
24	AEH500	(2)	16.95	-295.00	20.00	-295.00	350.00
25	AEH500	(2)	16.95	295.00	20.00	295.00	350.00
26	AEH500	(2)	16.95	-260.00	20.00	-260.00	350.00
27	AEH500	(2)	16.95	260.00	20.00	260.00	350.00

Total: 632.56 CuantÀa de armadura: 0.613 [o/o]

CÂd. dimensionamiento: (0) = As constante
CÂd. dimensionamiento: (1) = Aumentar As en zonas comprimida y traccionada
CÂd. dimensionamiento: (2) = Aumentar As solo en zona traccionada

Armaduras pretensadas :

NÏ	Def.Impuesta	NÏ	Def.Impuesta	NÏ	Def.Impuesta
1	5.700E-0003	2	5.700E-0003	3	5.700E-0003
4	5.700E-0003	5	5.700E-0003	6	5.700E-0003
7	5.700E-0003	8	5.700E-0003	9	5.700E-0003
10	5.700E-0003	11	5.700E-0003	12	5.700E-0003

ÙNo se han definido valores para el c lculo a cortante!

CaracterÀsticas del material:

Nom.Mat.	MÂdulo E [t/m2]	0.85*fcd,fyd [t/m2]	eps-fc [o/oo]	fct [t/m2]	fcv [t/m2]	fcw,mÀn [t/m2]
"H400"	3.80E+06	-2266.000	-2.000	0.0	81.700	4000.000
"AEH500"	2.10E+07	43478.3				
"A1900"	2.00E+07	155400.0				

Leyenda:
fcd,fyd resistencia de c lculo del hormigÂn,acero
eps-fc deformaciÂn al final de la par bola (fig.2.3, cap.2.2)
fct resistencia de c lculo a traccciÂn del hormigÂn
fcv resistencia virtual de c lculo del hormigÂn a esfuerzo cortante

---

C lculo Resistencia Ultima: Viga "V22-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1443.530				-14602.3	

Coeficiente de seguridad 1.247

C lculo Resistencia Ultima: Viga "V22-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1568.880				1259.100	

Coeficiente de seguridad 10.228

C lculo Resistencia Ultima: Viga "V22-SP-0"/"B1"

SolicitaciÂn Unidades : [tm]

N	Vy	Vz	Mx	My	Mz
-1478.000				7006.280	

Coeficiente de seguridad 1.785

2.5. Cálculo transversal del tablero

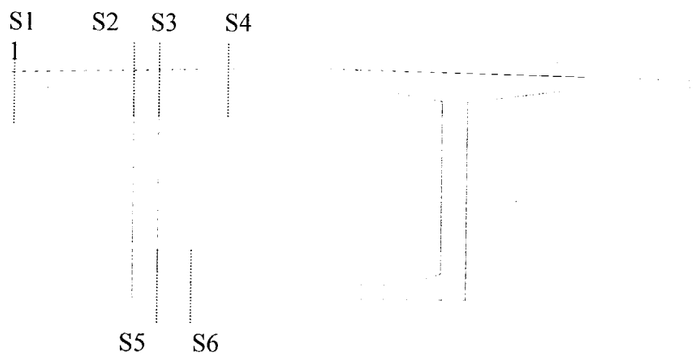
2.5.1. Armadura transversal del tablero

CALCULO DE ARMADURA TRANSVERSAL Y E.L.U. ESFUERZOS TANGENCIALES

El cálculo de armadura transversal del tablero se realiza sobre un todos los vanos del viaducto debido a la variación de esfuerzos en los vanos extremos y en los vanos de 51 metros.

La sección en cajón se divide en las siguientes secciones de control:

- S1.
- S2.
- S3
- S4
- S5
- S6



En estos puntos se compara la armadura necesaria por flexión con la necesaria por esfuerzos tangentes, disponiéndose una cuantía equivalente a la envolvente de las dos solicitaciones.

Para el cálculo de la armadura a flexión se han realizado dos modelos. El primero supone que la sección del tablero está apoyada (hipótesis válida en la zona de tablero sobre pilas). El segundo supone que la sección no está apoyada (hipótesis válida en la zona de centro de vano). Para este segundo modelo se han introducido las reacciones del primero en forma de carga repartida sobre las barras del cajón consiguiendo así que las reacciones en los apoyos se anulen. Los esfuerzos concluyentes de flexión resultan de la envolvente de ambos modelos.

Modelo con sección apoyada: Hipótesis de carga:

1.- PP.	Peso propio.
2.- RCP.	Resto de cargas permanentes.
3.- IAPF1	Dos carros IAPF en su posición centrada.
4.- IAPF2	Dos carros IAPF ripados 30 cm hacia extremo izquierdo.
5.- IAPF3	Un carro de IAPF en su posición normal.
6.- IAPF4	Un carro de IAPF ripado 30 cm hacia extremo izquierdo.
7.- IAPF5	Un carro de IAPF ripado 30 cm hacia extremo derecho.
8.- PASE1	Carga uniforme de 500kg/m2 en paseo izquierdo.
9.- PASE2	Carga uniforme de 500kg/m2 en paseo derecho.
10.- L-INF	Carga uniforme de 100kg/m2 en losa inferior.
11.-DESC1	Descarrilamiento en lado izquierdo (2 ejes de 5 ton según Eurocódigo 1.3)
12.-DESC2	Descarrilamiento en lado derecho (2 ejes de 5 ton según Eurocódigo 1.3)
13.- DESC3	Descarrilamiento en lado izquierdo (1 eje de 8 ton según Eurocódigo 1.3)
14.- DESC4	Descarrilamiento en lado derecho (1 eje de 8 ton según Eurocódigo 1.3)

Modelo con sección autocompensada: Hipótesis de carga:
Las hipótesis están comprendidas entre la 1-CORR y la 14-CORR. Cada una de éllas es la suma de las hipótesis anteriores más esfuerzos unitarios repartidos en el cajón de modo que se anulan las reacciones en los apoyos del modelo.

La comprobación de cortante y torsor se ha realizado aplicando la EHE, utilizando un valor del ángulo cotagθ=1.46, que es igual al valor de la cotagente de θ elástico, aplicando la compresión debida a la acción del pretensado, según las especificaciones de la EHE. Primero se han obtenido las cuantías necesarias para solicitaciones de máximo cortante con su torsor concomitnate y posteriormente se han hallado las cuantías para máximo torsor y cortante concomitante.

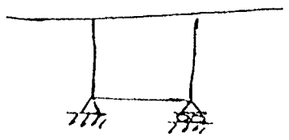
Para las comprobaciones de rasante en las secciones de control, se ha calculado el valor de cotagθ con el valor de las tensiones obtenidas en la fibra considerada.

Finalmente se ha armado la sección con la envolvente entre las cuantías de flexión y de cálculos tangenciales.

Oficina Técnica	PROYECTO: VIADUCTO		
	ASUNTO:		
ESCRITO POR: FECHA:	REVISADO POR: FECHA:	HOJA	DE

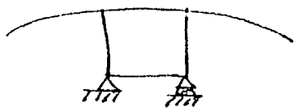
CALCULO DE COEFICIENTE DE IMPACTO PARA CALCULO DE ARMADURA TRANSVERSAL

Para la obtención de los coeficientes de impacto se toman los ~~modos~~ modos propios de vibración de la sección transversal



MODO 2

T= 0,0848 s



MODO

CALCULO DE COEF. DE IMPACTO DE VOLADIZO

$$I = 65 \cdot \frac{\mu}{1-\mu+\mu^2} \qquad \mu = \frac{V \cdot T}{2L}$$

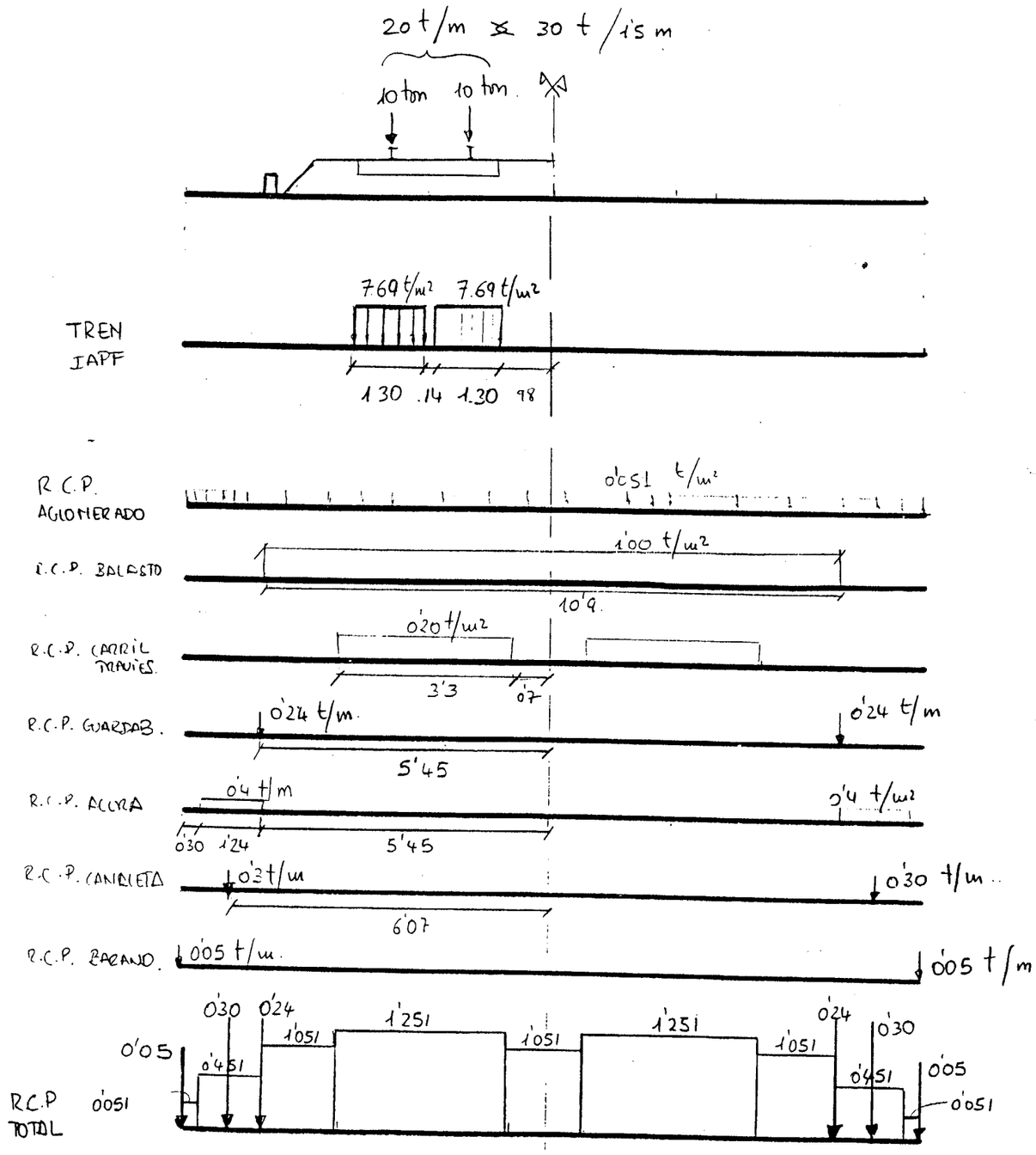
- Voladizo: $L_{eq} = 8m \Rightarrow \mu = \frac{200 \cdot 0,0848}{2 \cdot 8} = 1,06$

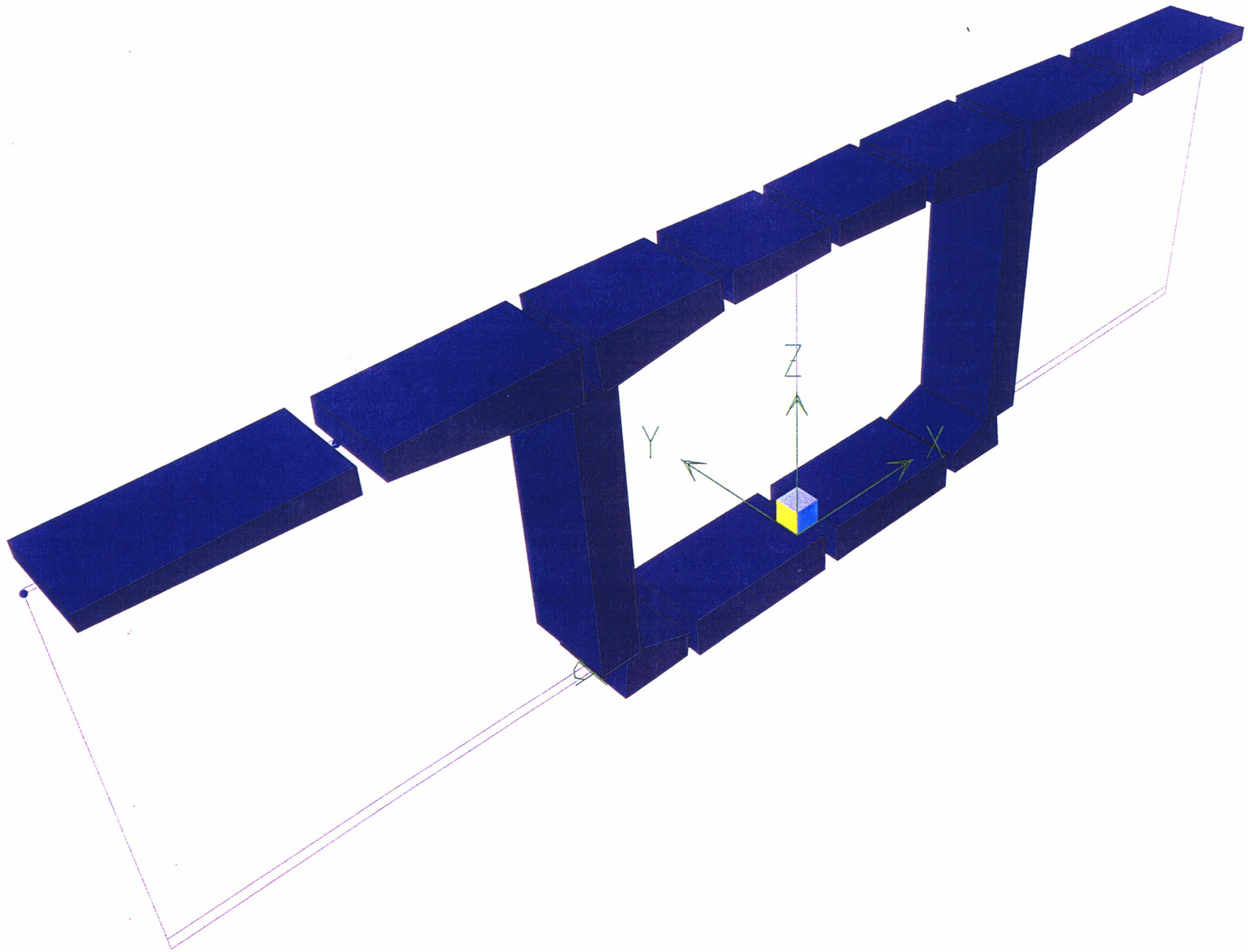
$I = 64,8 \longrightarrow$ coef = 1,65

- Losa interior $L_{eq} = 6$ $\mu = \frac{200 \cdot 0,0848}{2 \cdot 6} = 1,41$

$I = 57,8 \longrightarrow$ coef = 1,8

SECCION TRANSVERSAL

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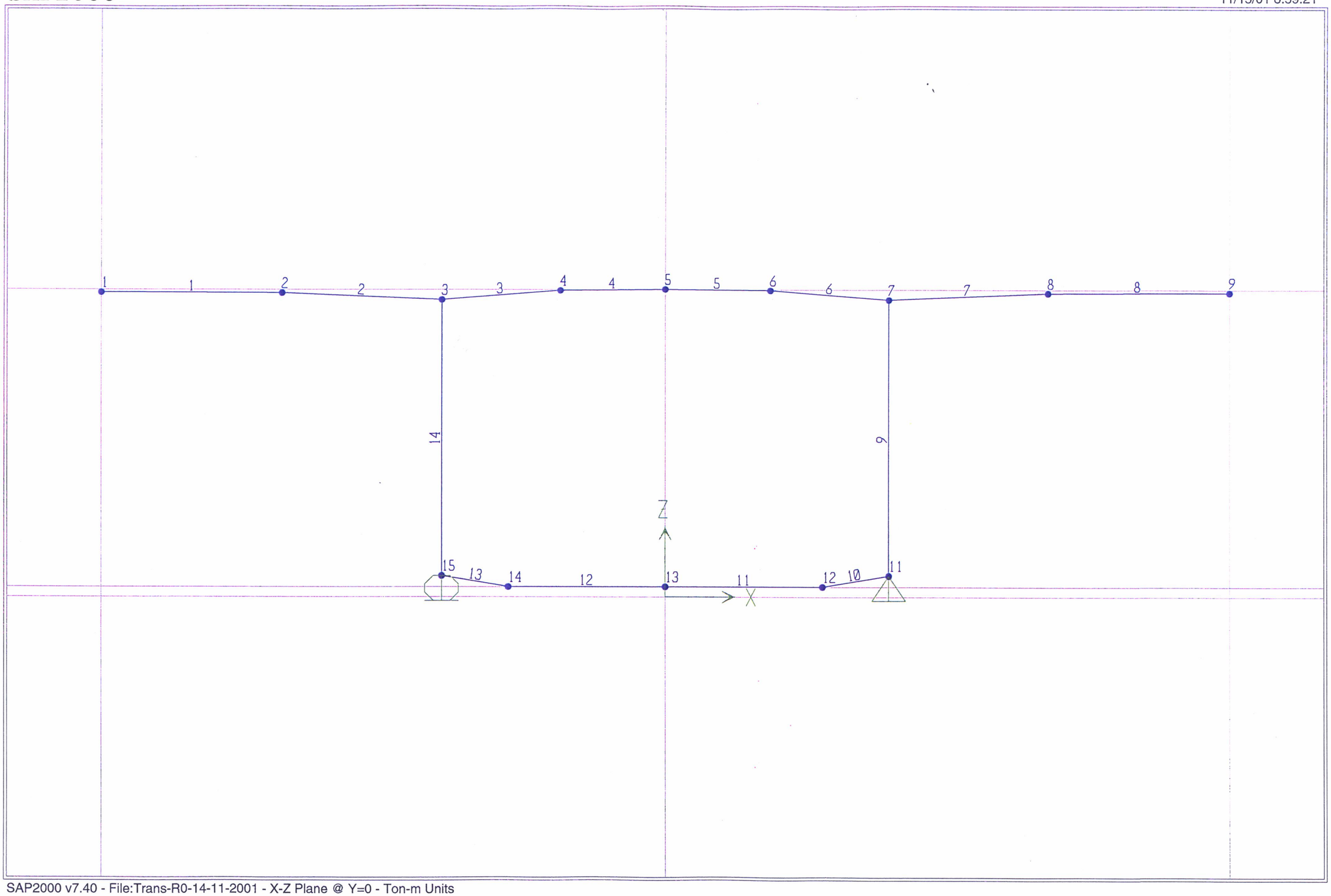
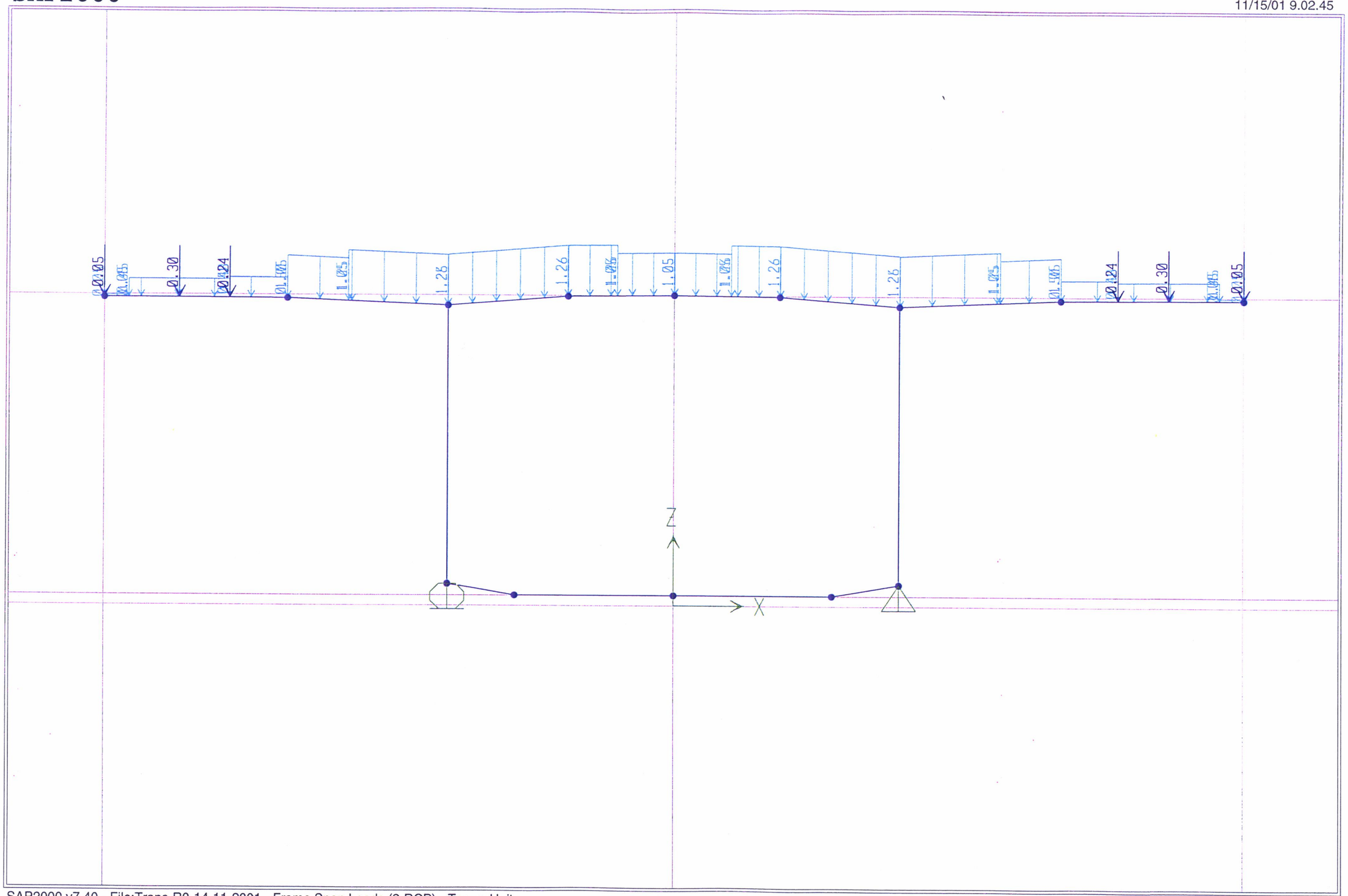
Y
X



SAP2000 v7.40 - File:Trans-R0-14-11-2001 - X-Z Plane @ Y=0 - Ton-m Units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1.445
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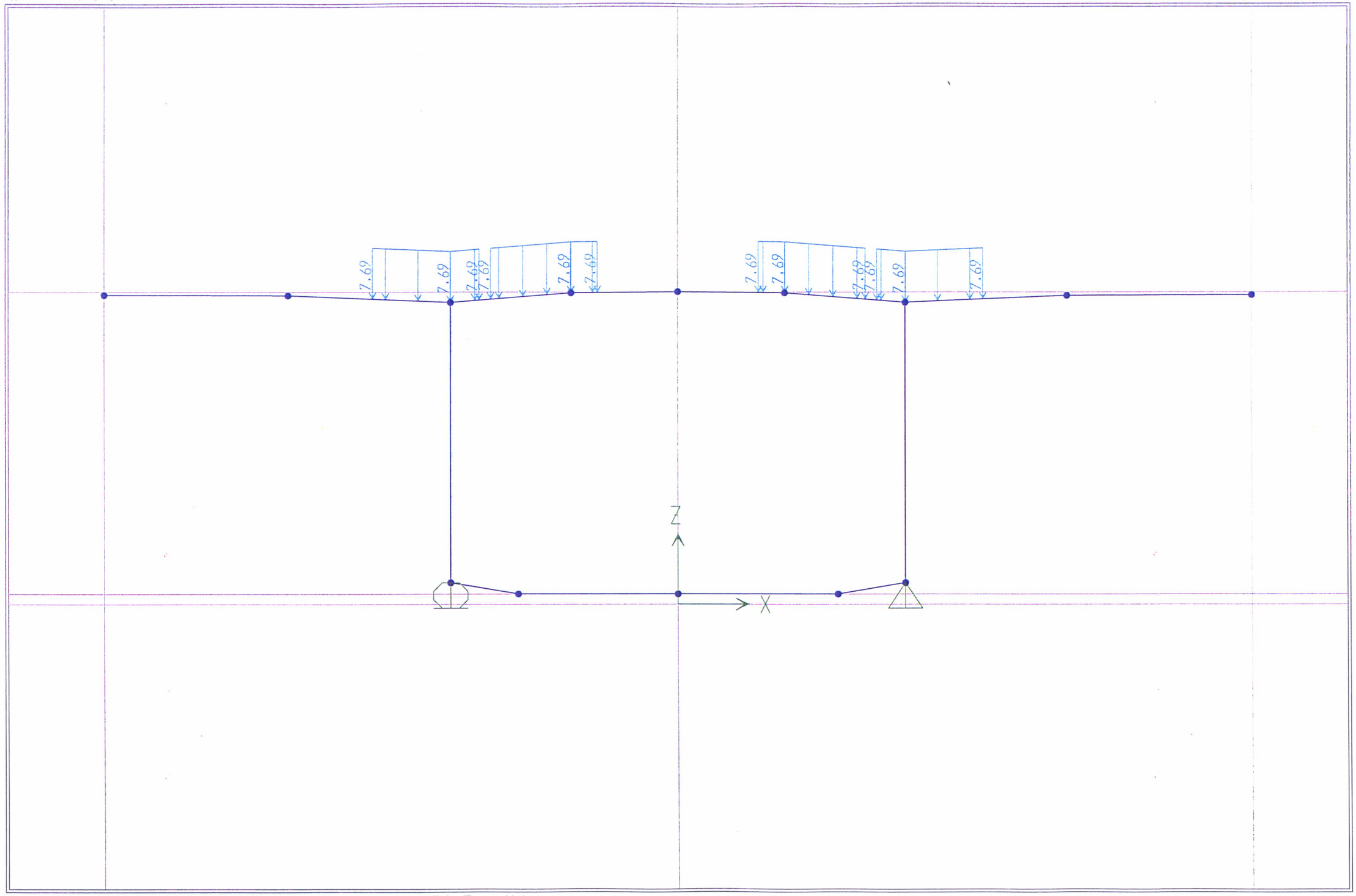
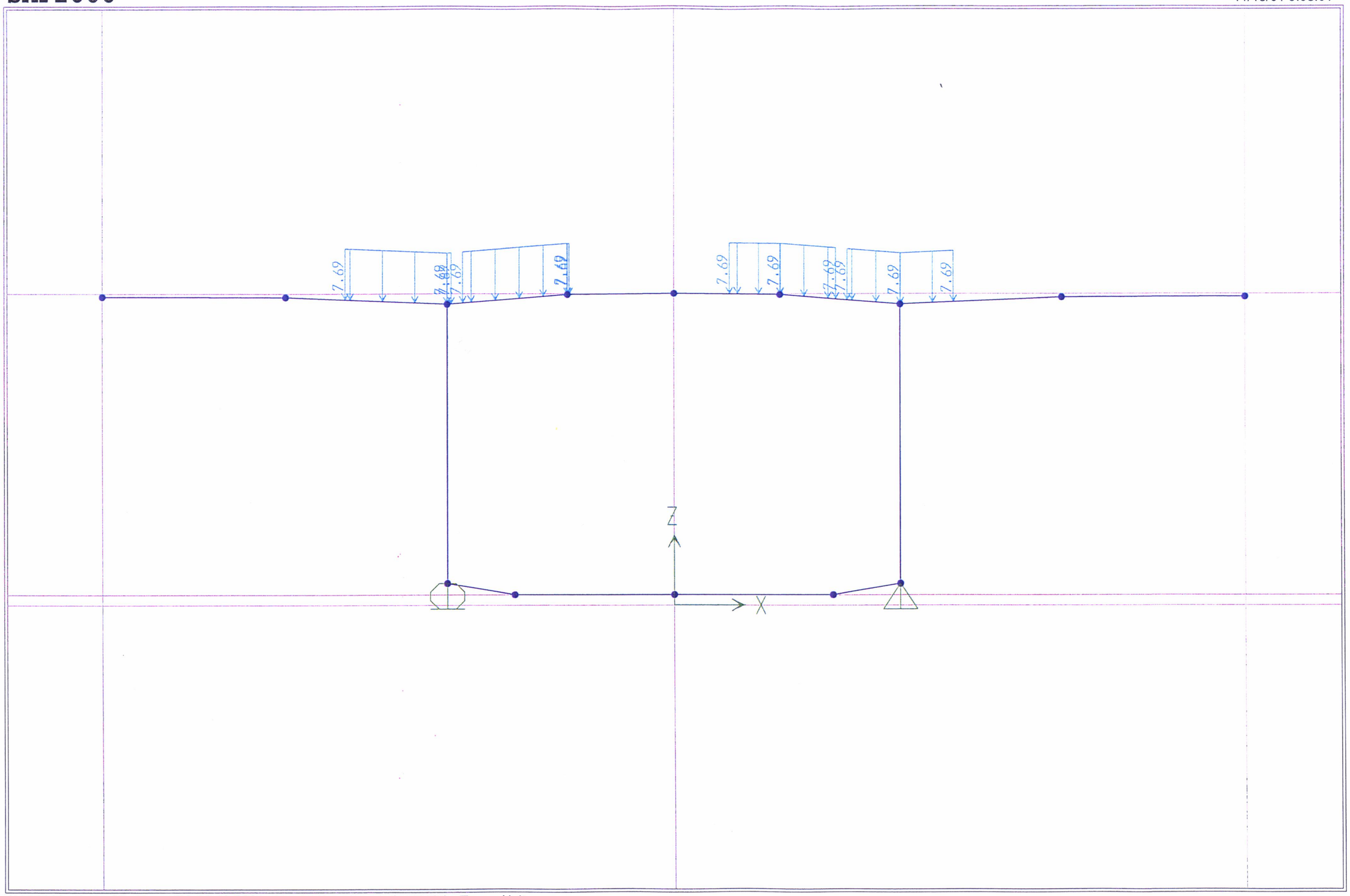
0.30
0.945
0.105
Z
X



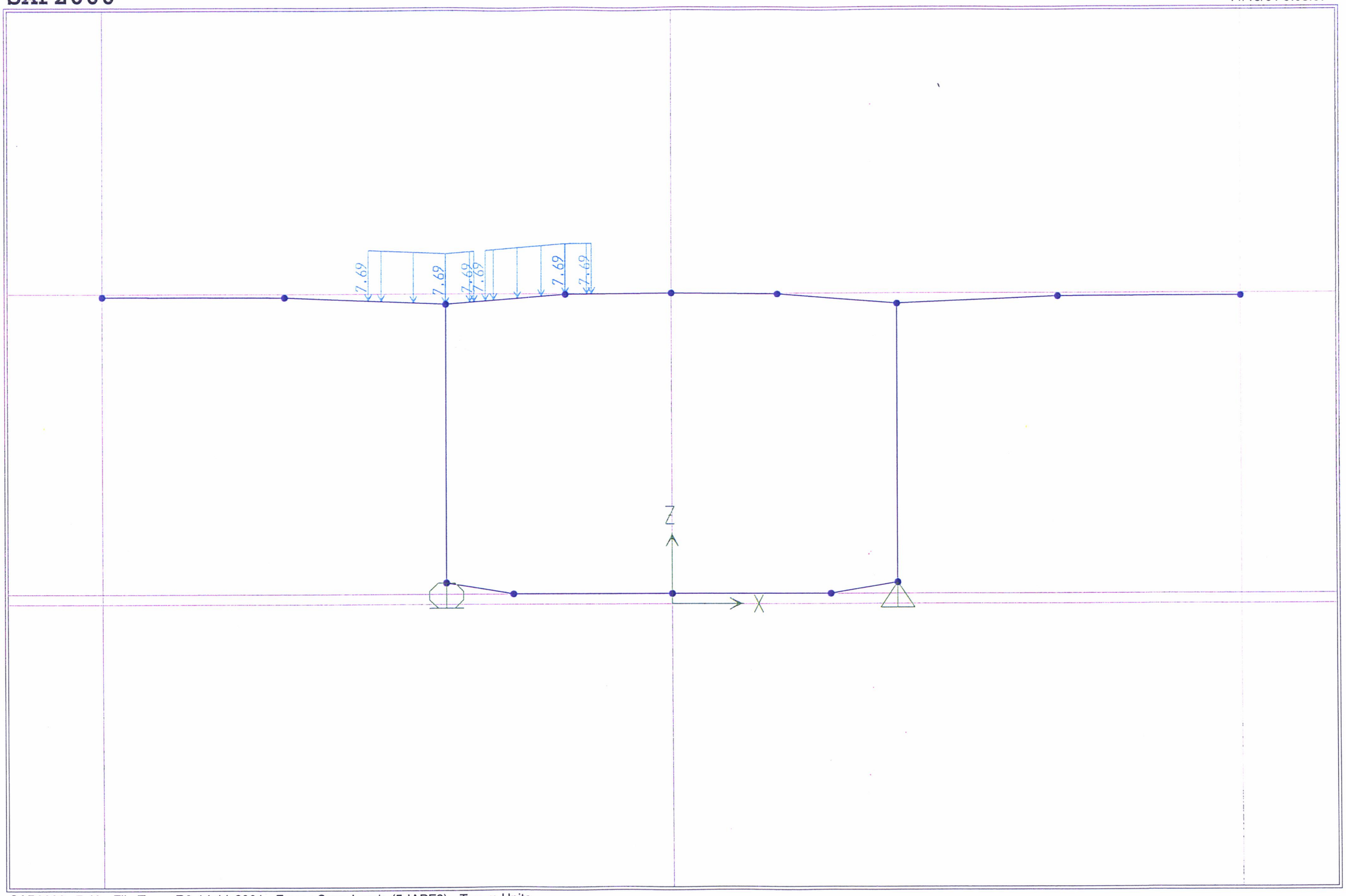
SAP2000 v7.40 - File:Trans-R0-14-11-2001 - Frame Span Loads (3-IAPF1) - Ton-m Units

SAP2000

11/15/01 9.03.01



SAP2000 v7.40 - File:Trans-R0-14-11-2001 - Frame Span Loads (4-IAPF2) - Ton-m Units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Z
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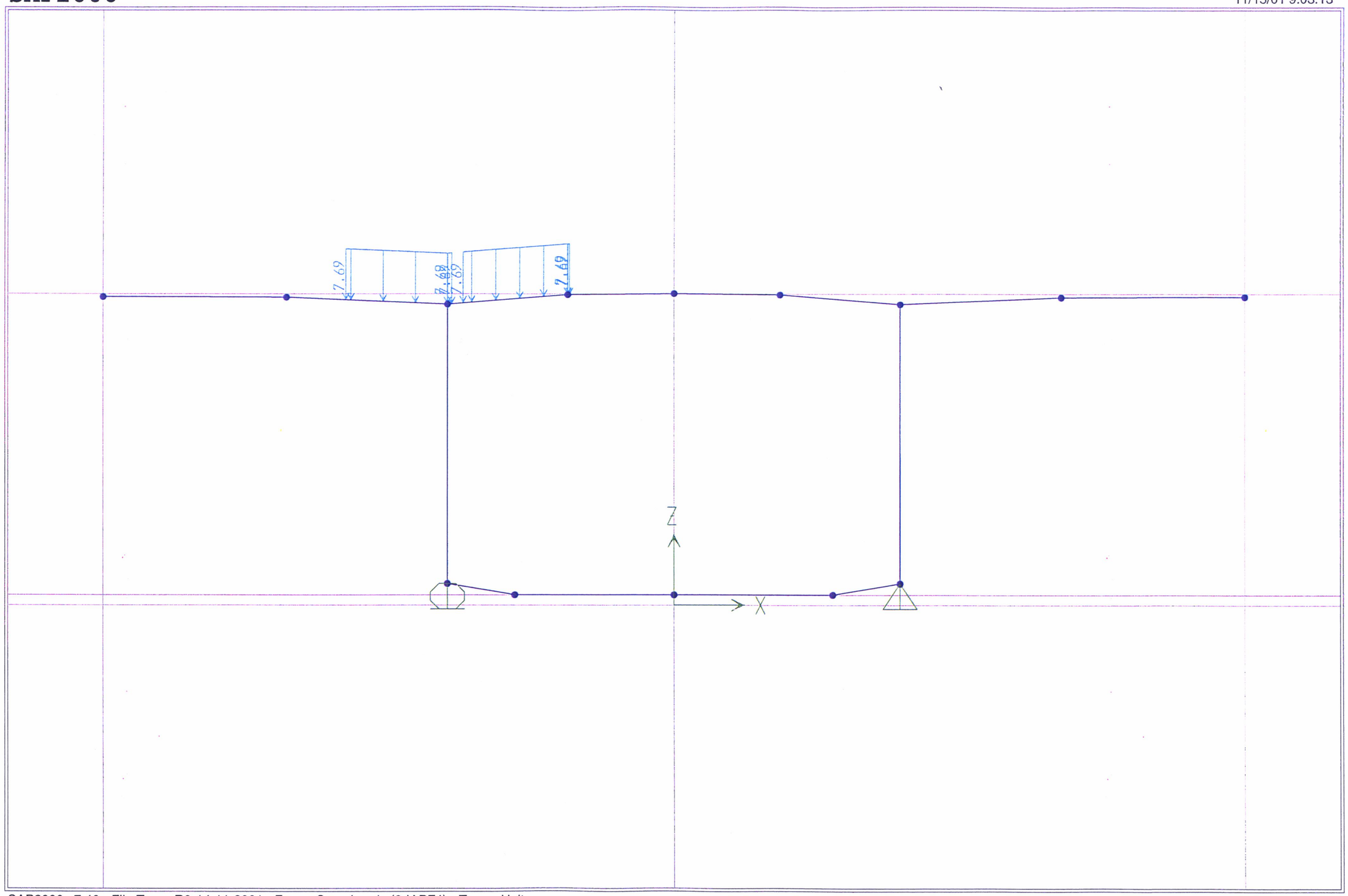
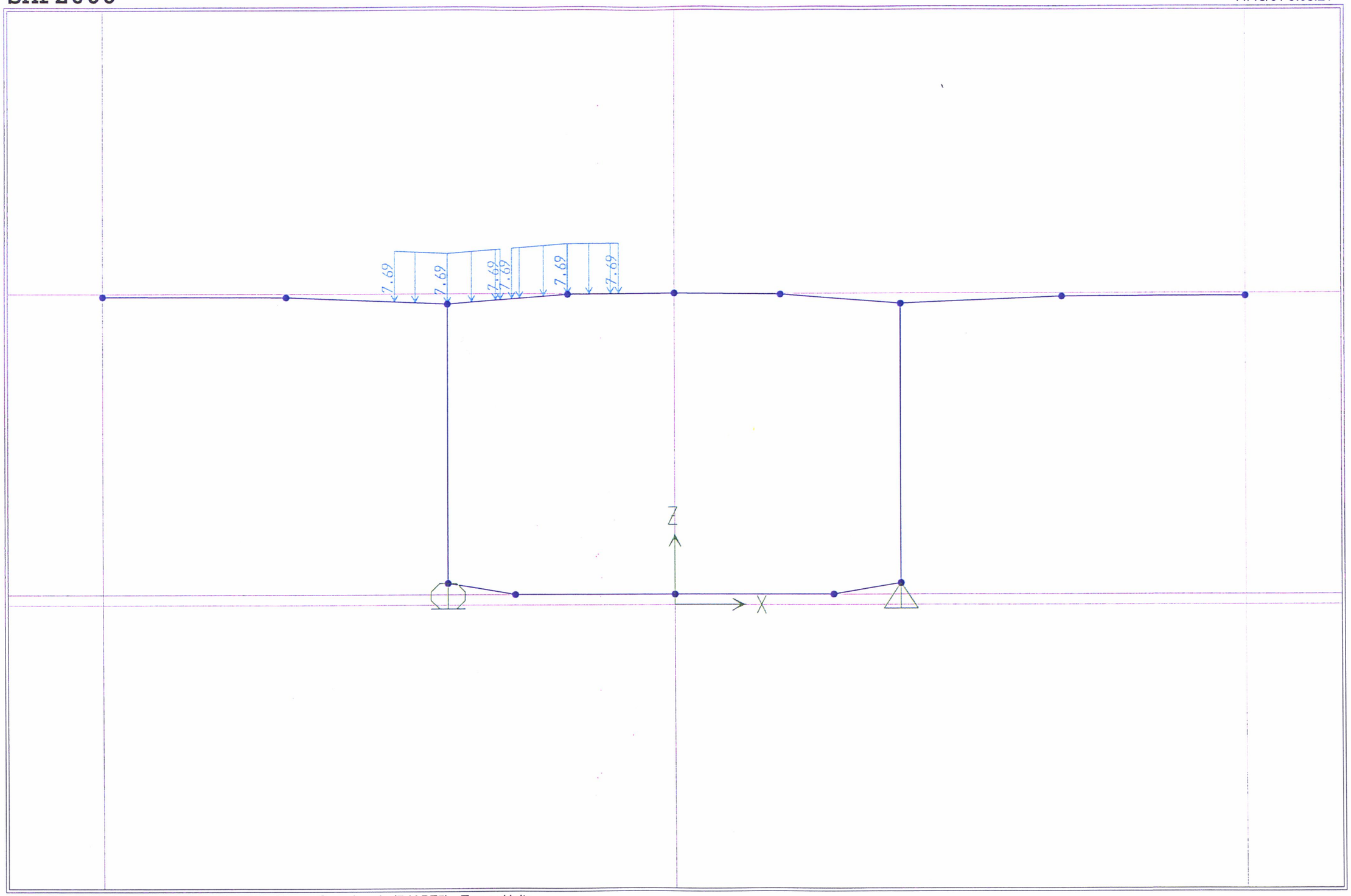
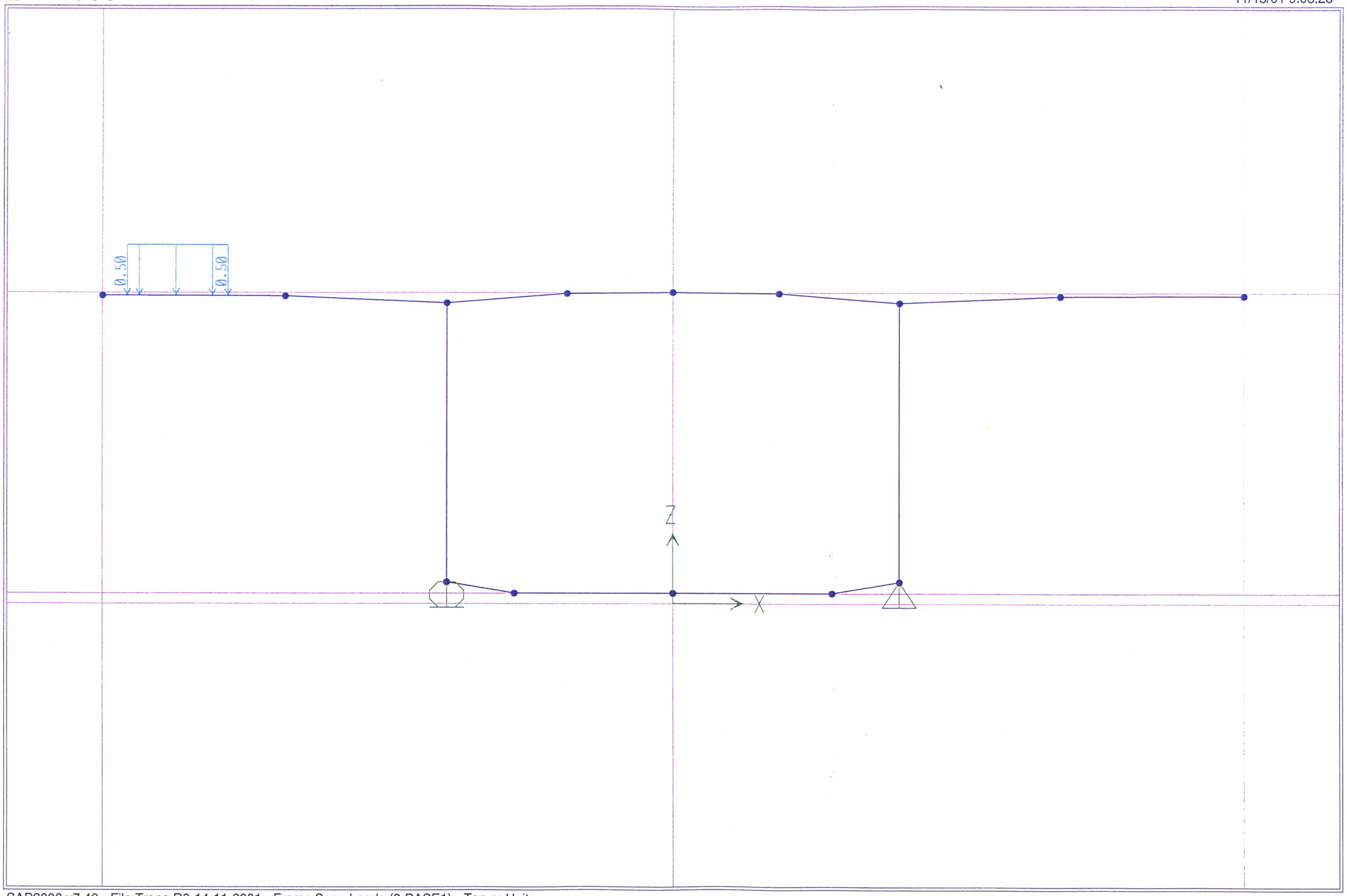


SAP2000 v7.40 - File:Trans-R0-14-11-2001 - Frame Span Loads (6-IAPF4) - Ton-m Units



SAP2000 v7.40 - File:Trans-R0-14-11-2001 - Frame Span Loads (7-IAPF5) - Ton-m Units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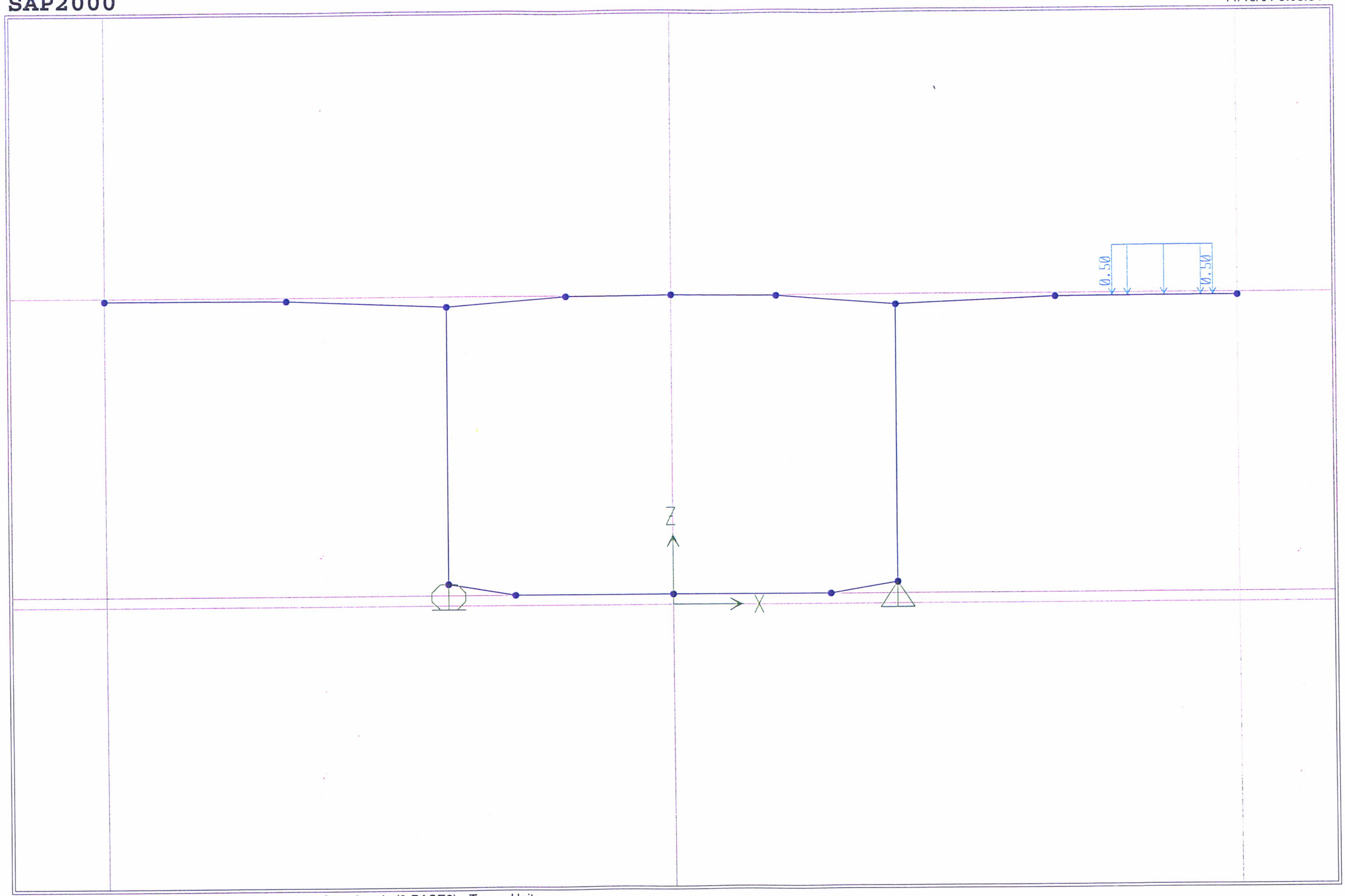
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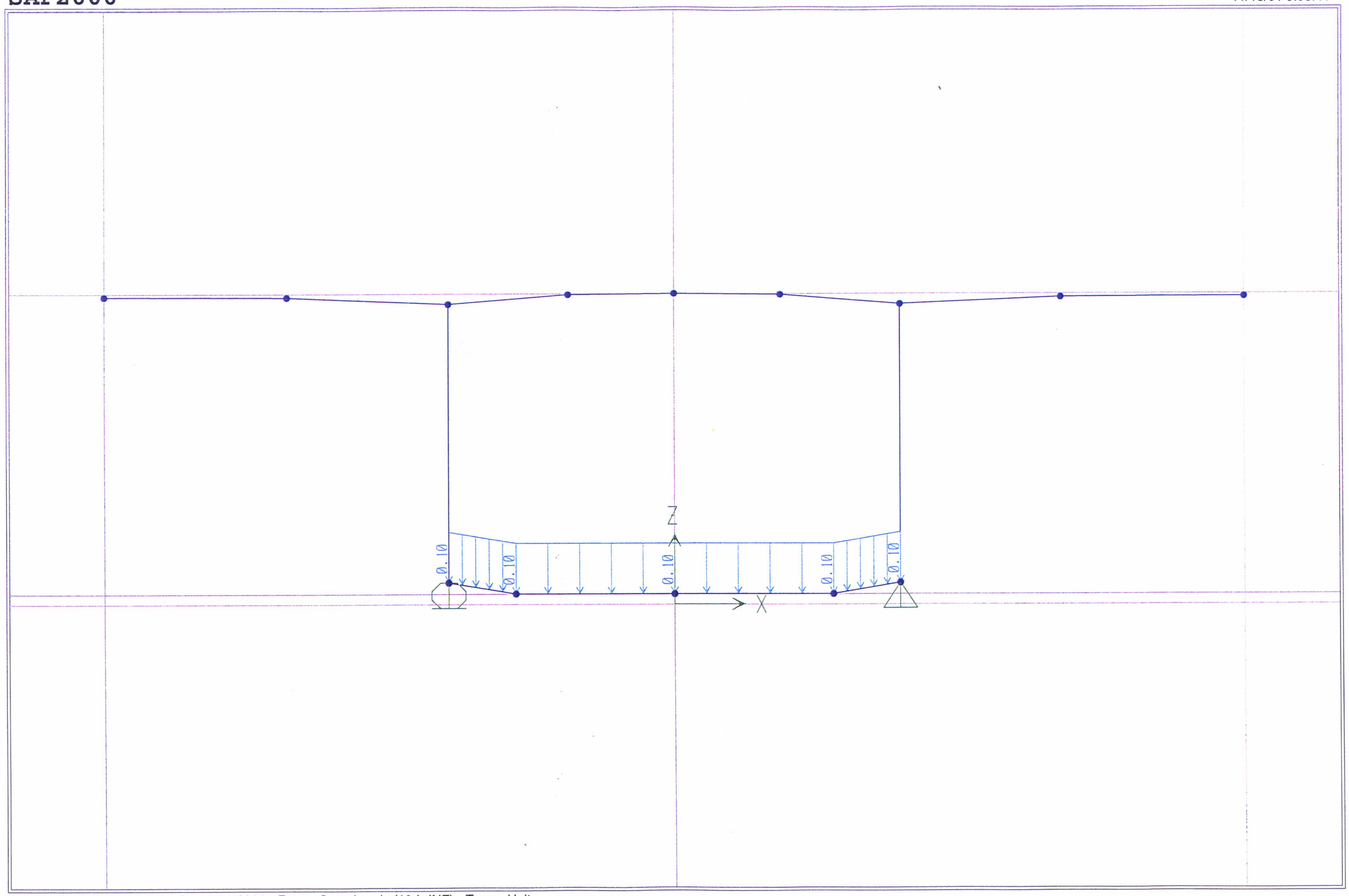
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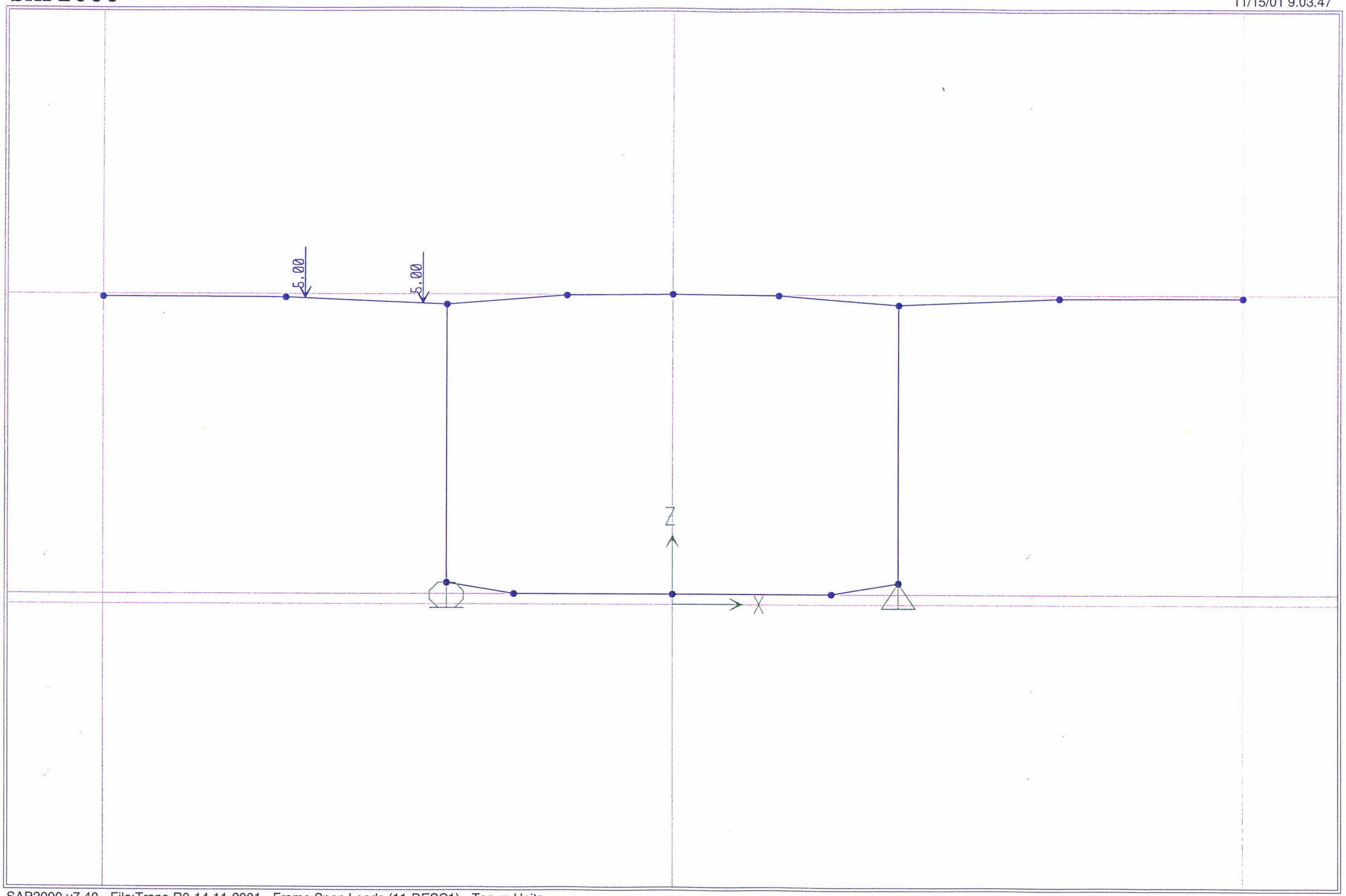
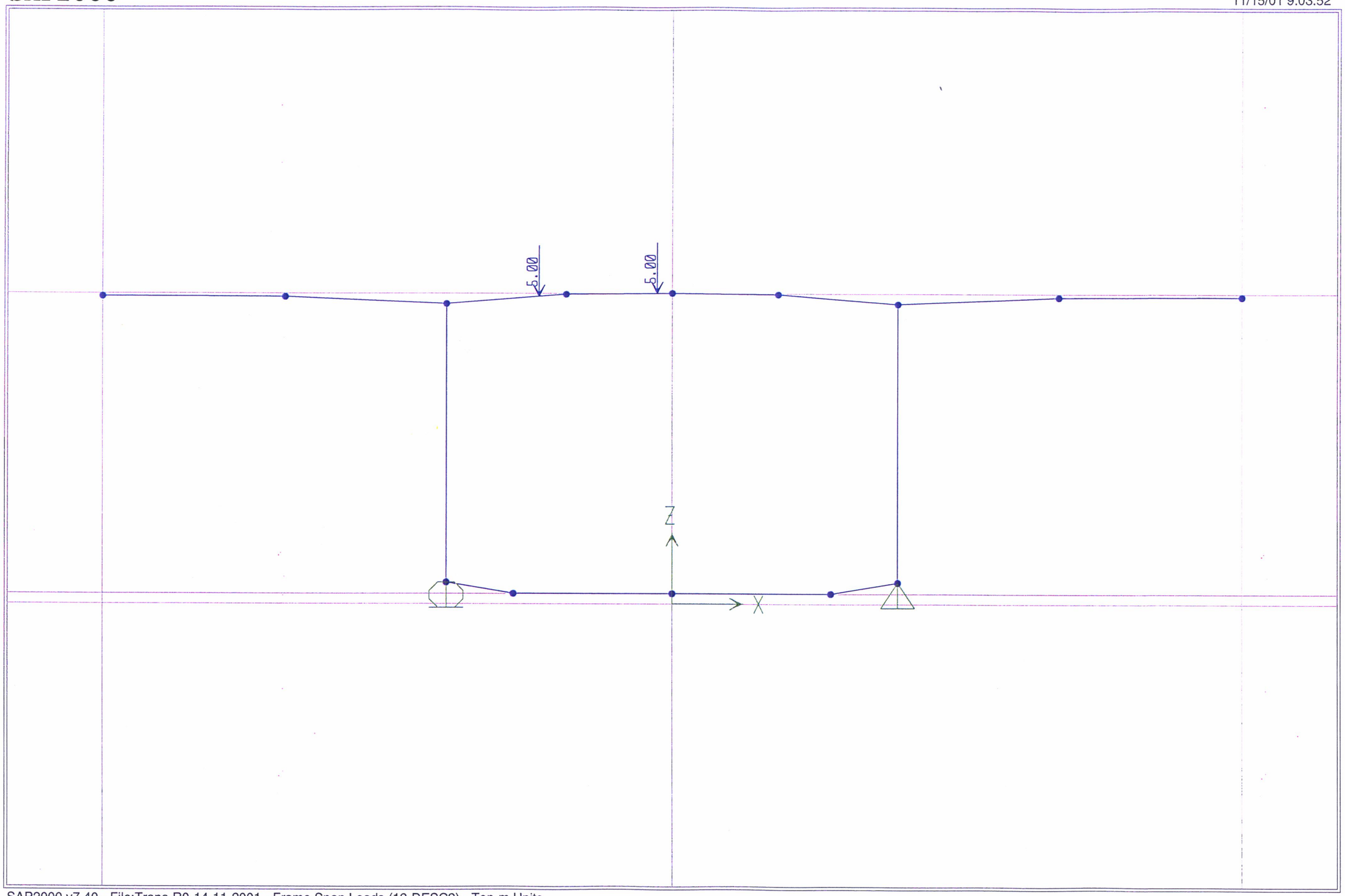
SAP2000

11/15/01 9.03.47



SAP2000 v7.40 - File:Trans-R0-14-11-2001 - Frame Span Loads (11-DESC1) - Ton-m Units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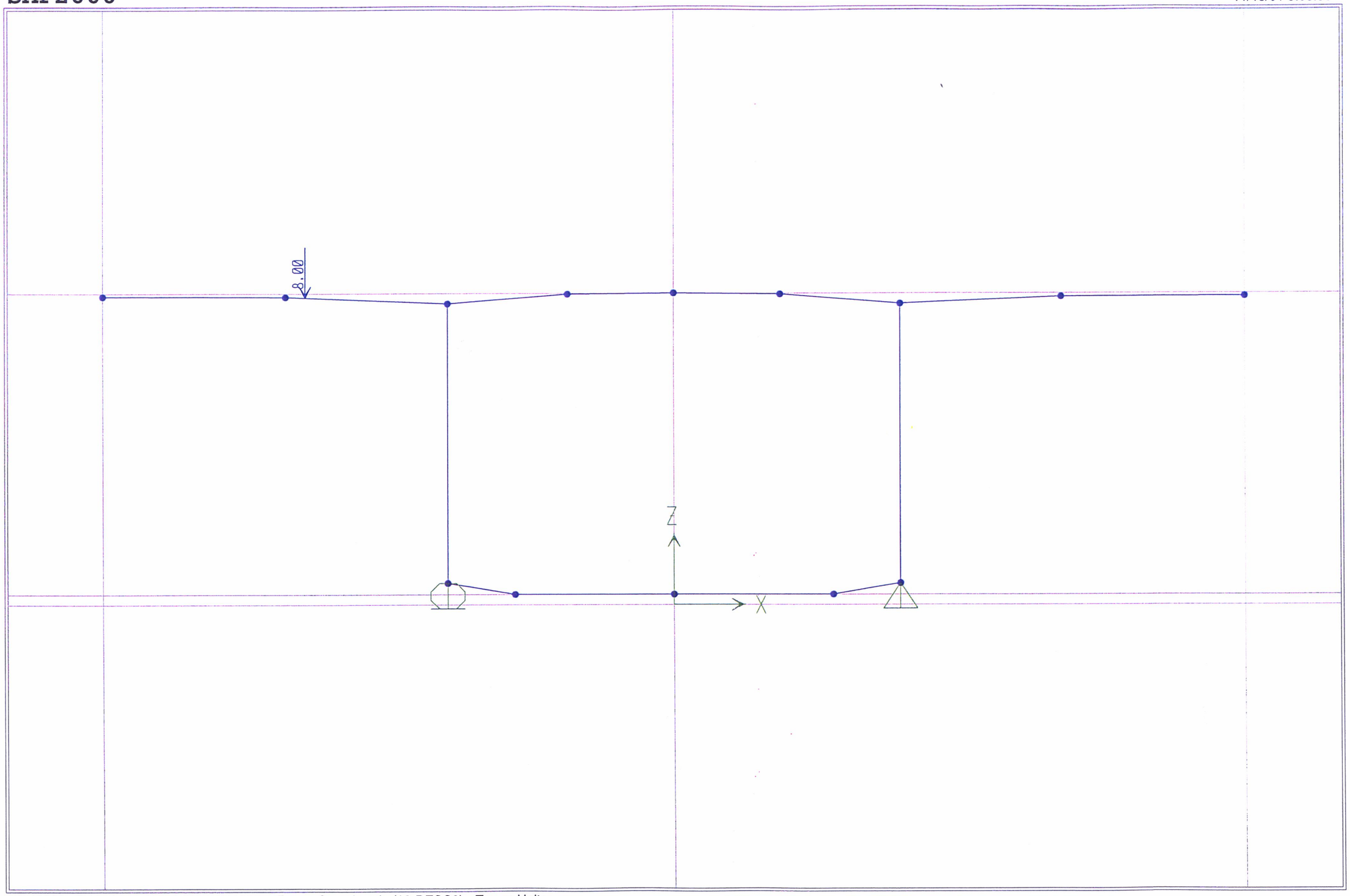
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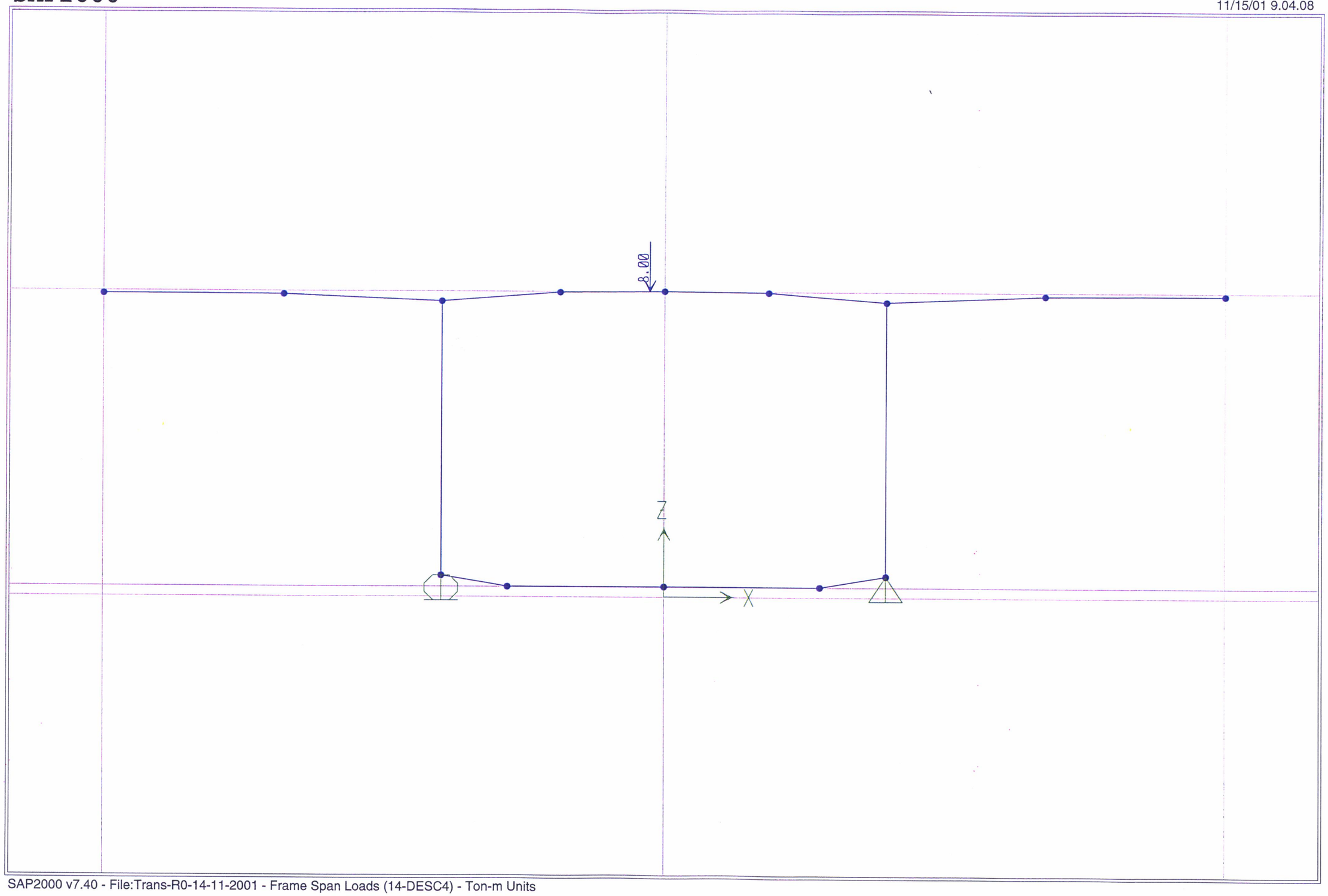
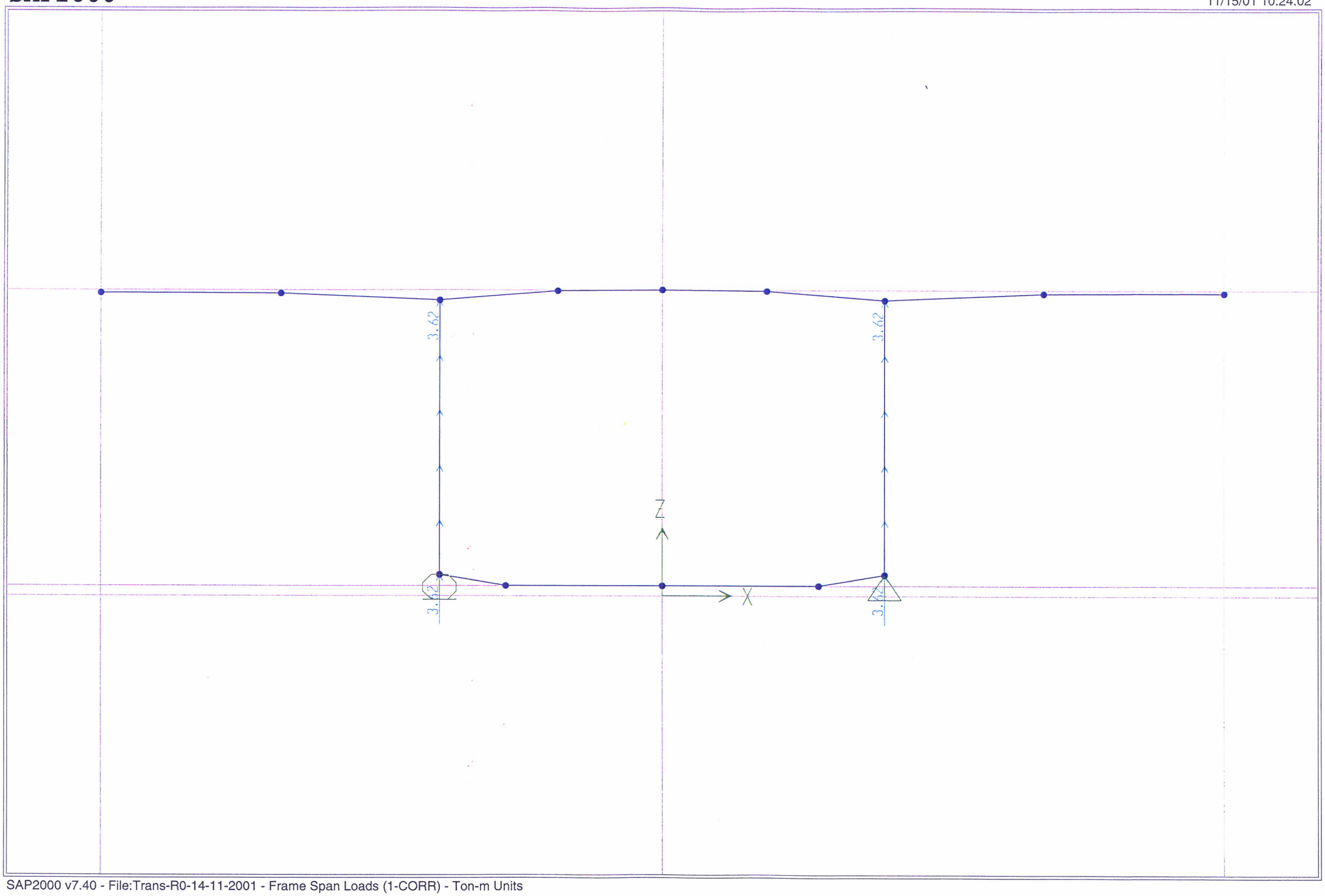
SAP2000

11/15/01 9.04.08



SAP2000 v7.40 - File:Trans-R0-14-11-2001 - Frame Span Loads (14-DESC4) - Ton-m Units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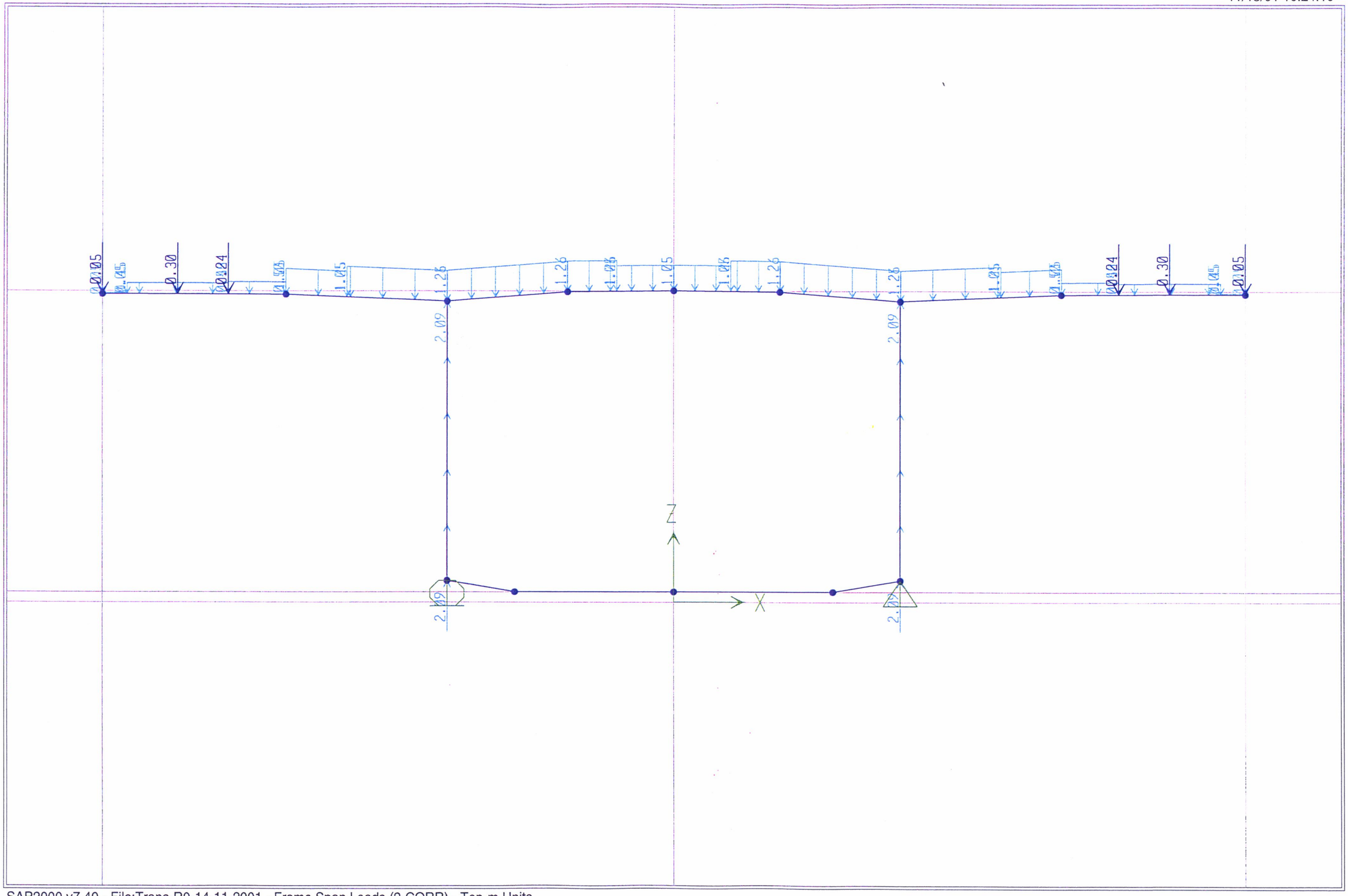
3.62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1.26
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0.105
Z
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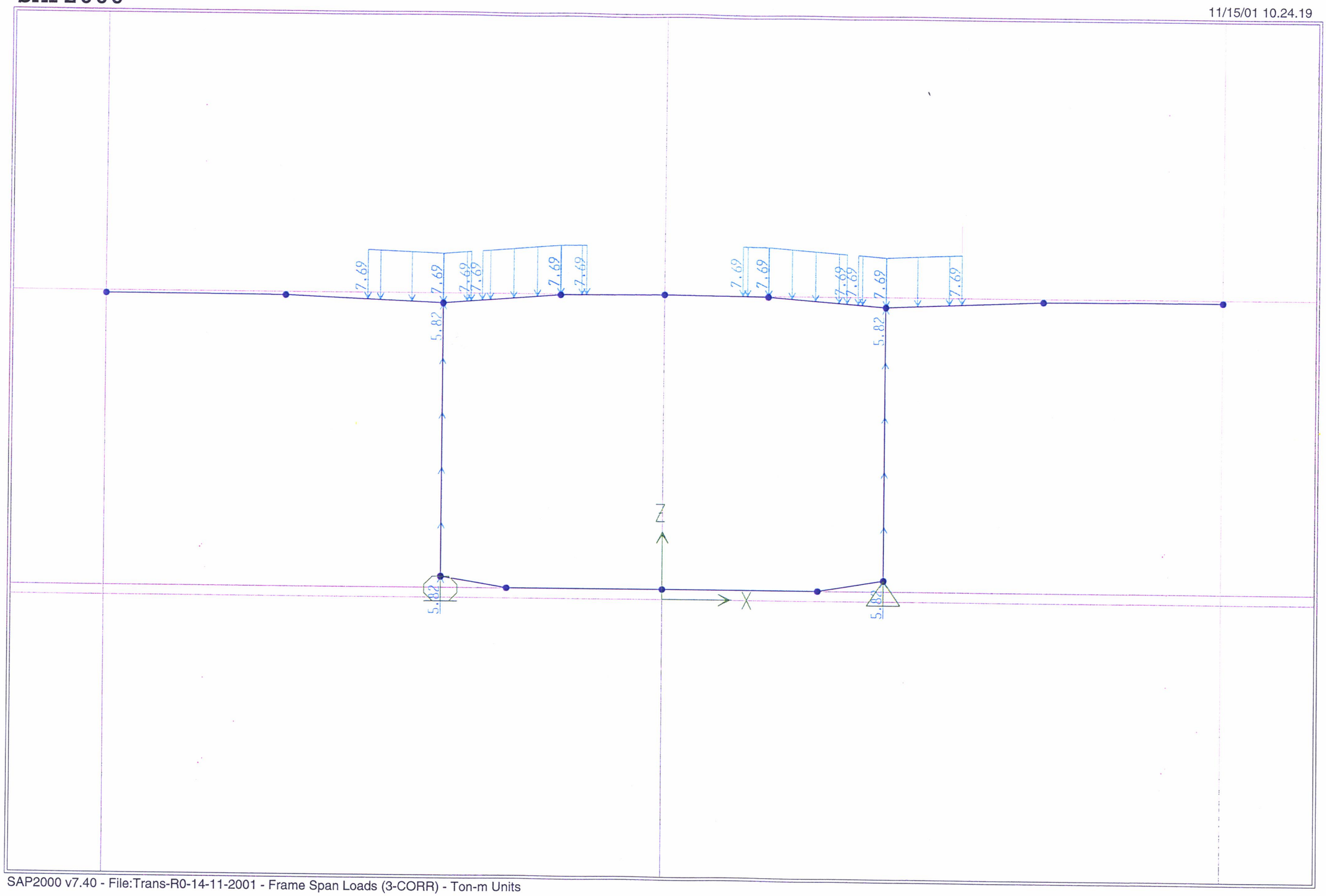
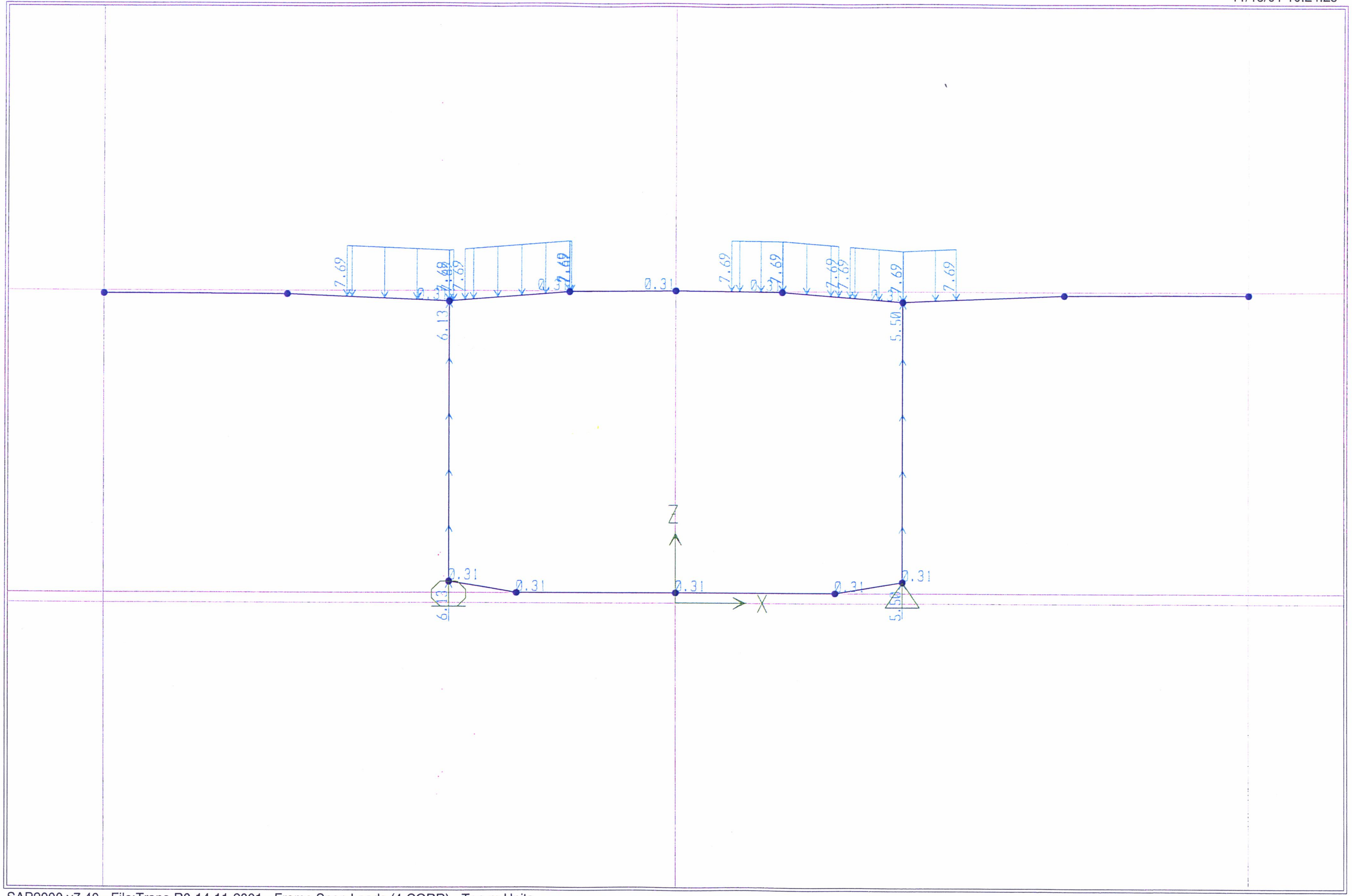
2.09

SAP2000

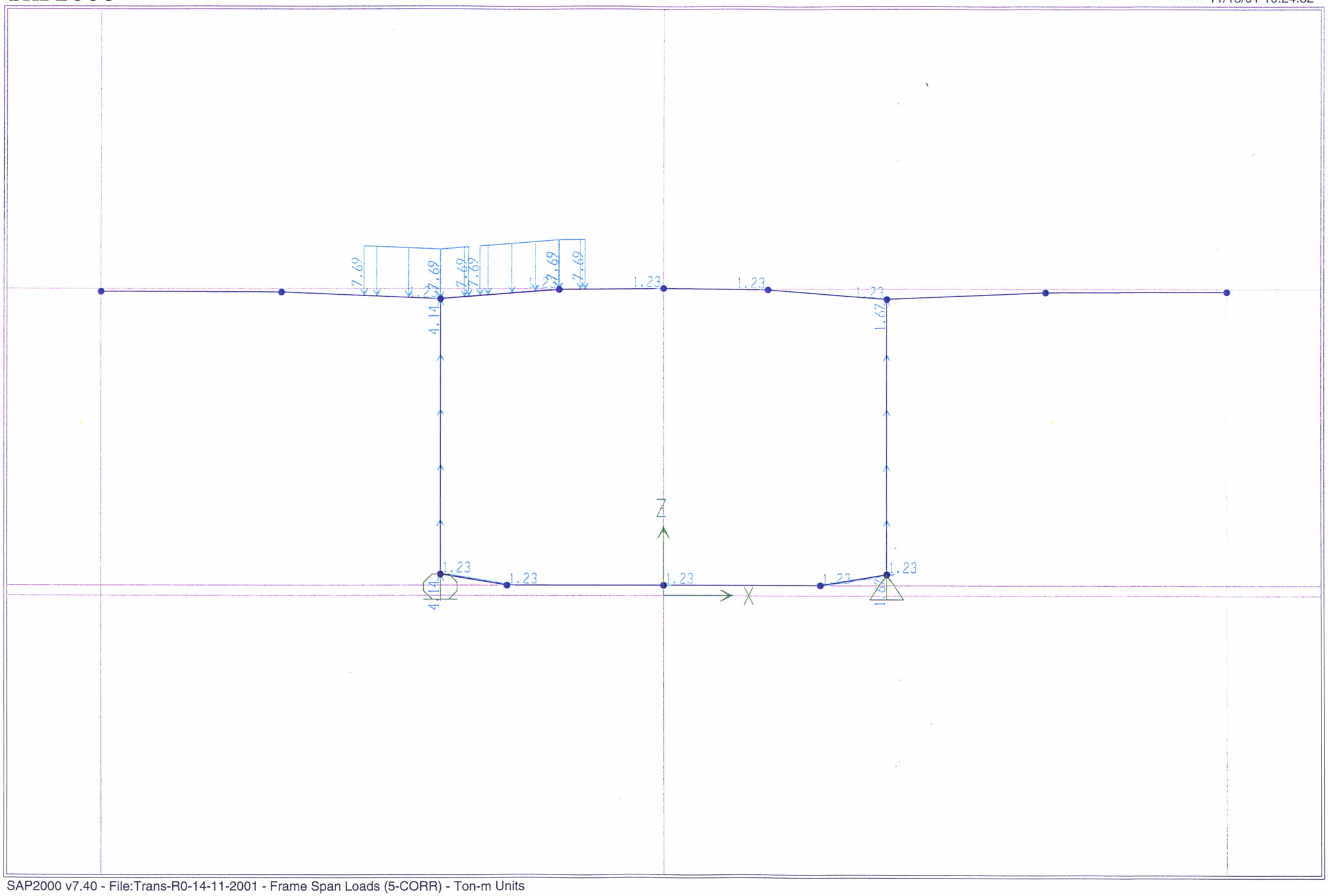
11/15/01 10.24.19



SAP2000 v7.40 - File:Trans-R0-14-11-2001 - Frame Span Loads (3-CORR) - Ton-m Units



SAP2000 v7.40 - File:Trans-R0-14-11-2001 - Frame Span Loads (4-CORR) - Ton-m Units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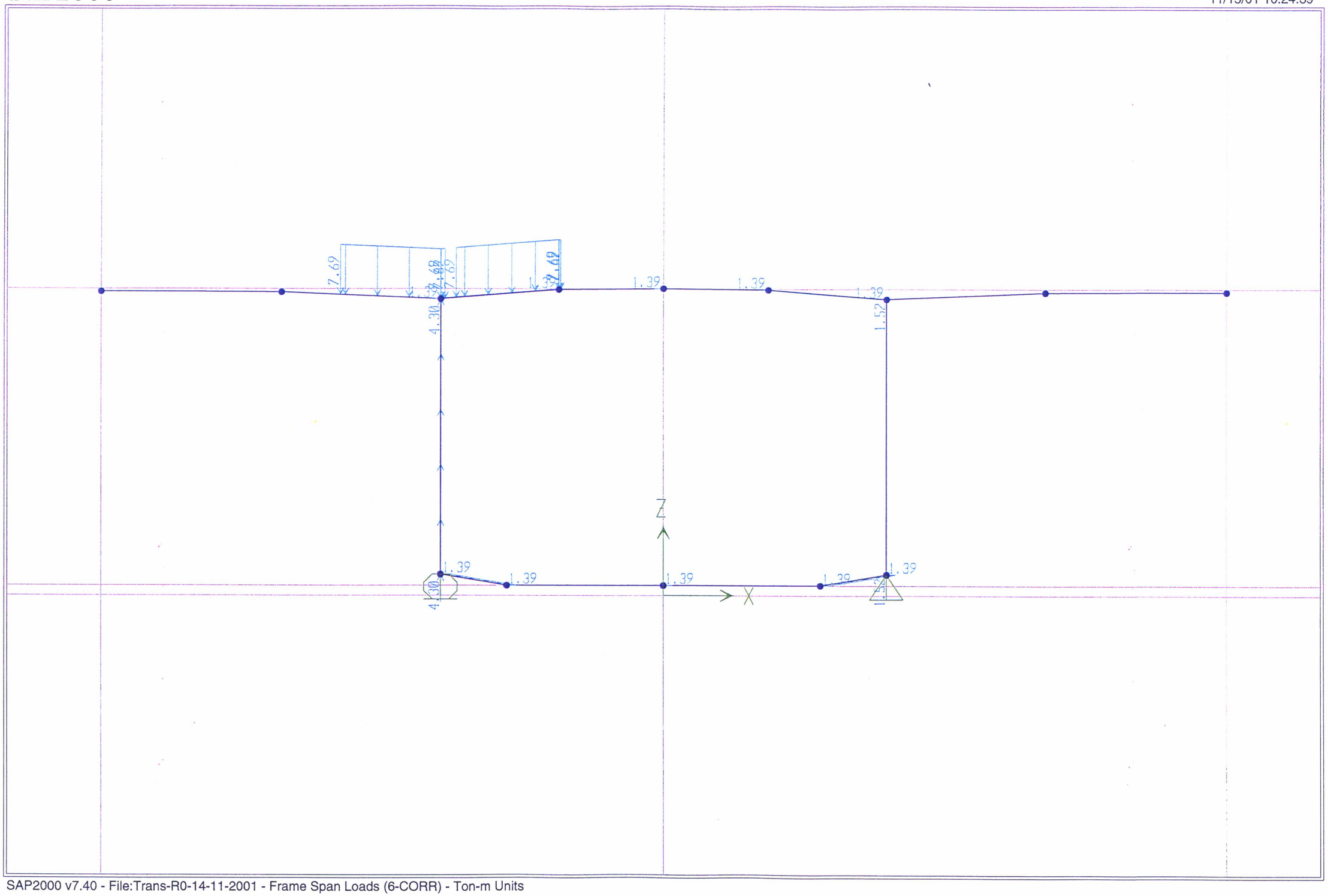
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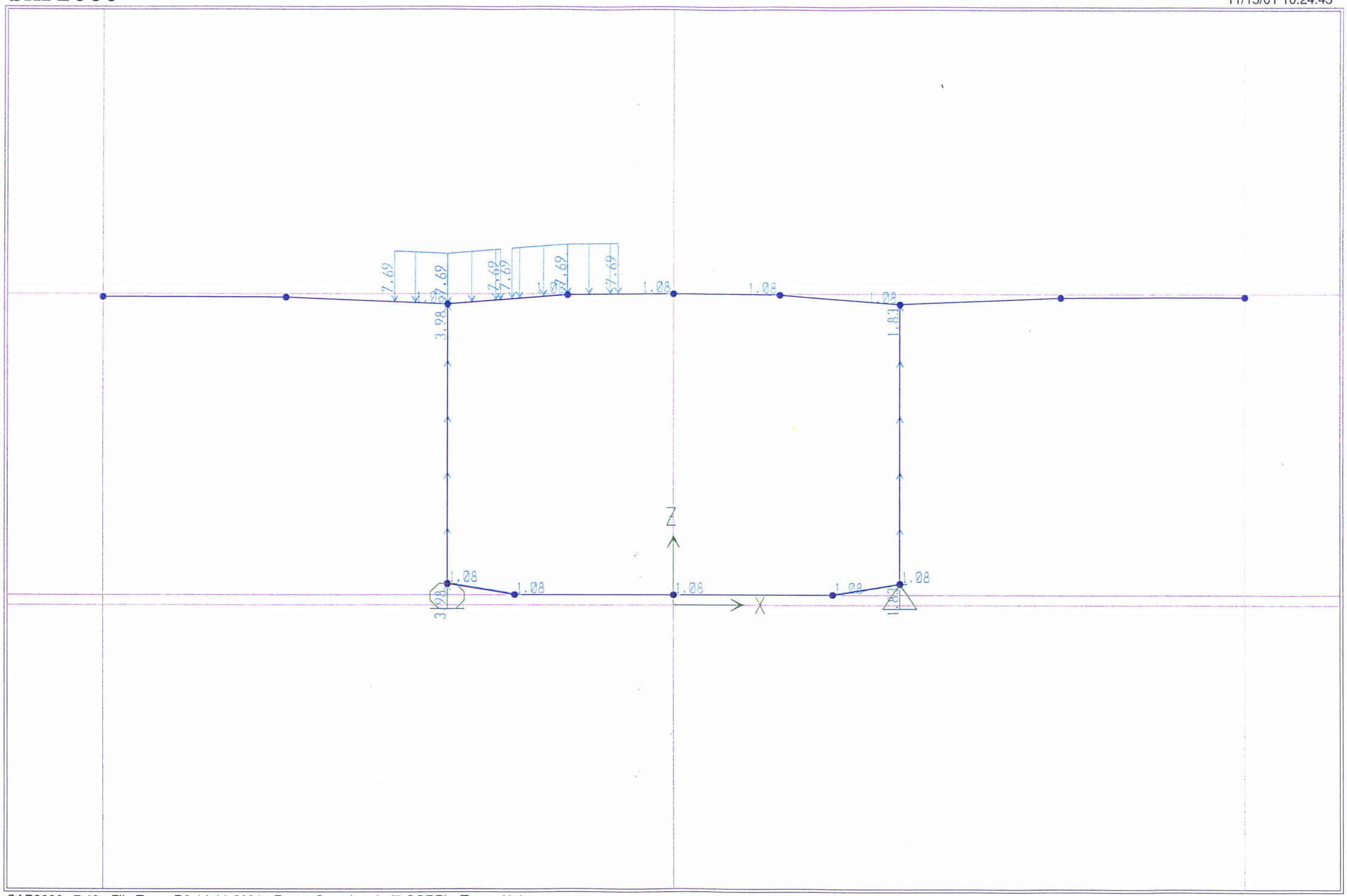
1.39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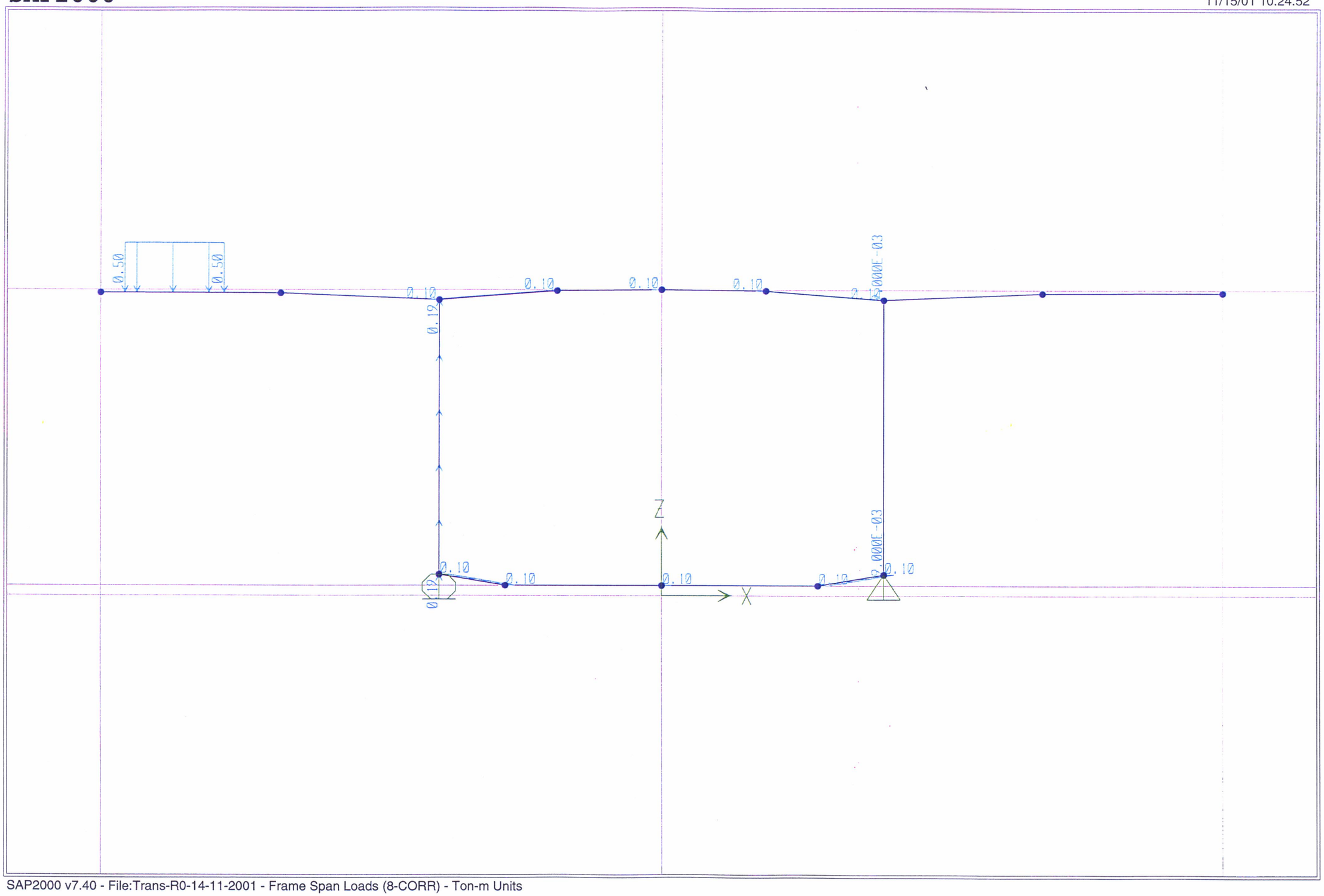
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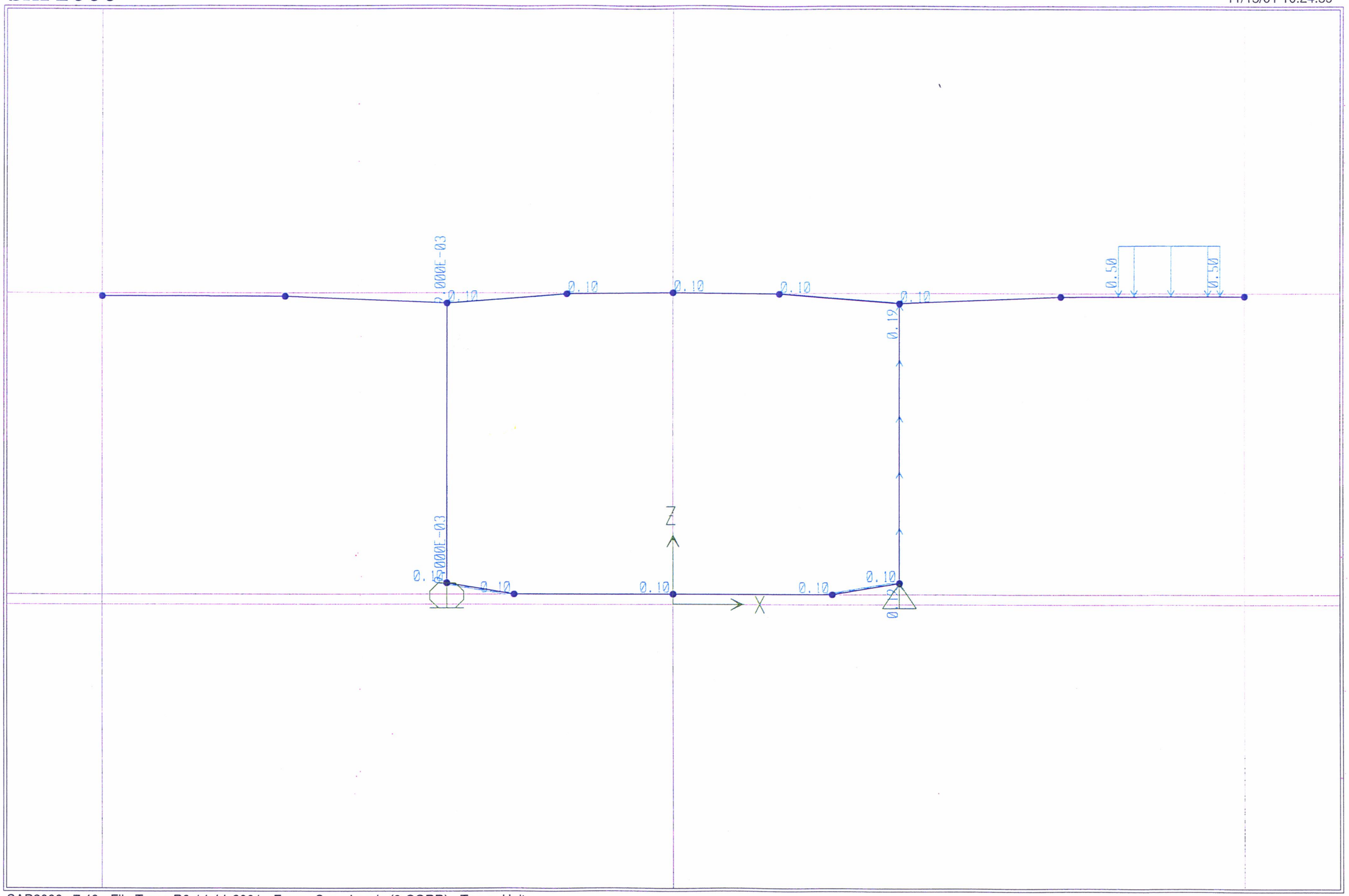
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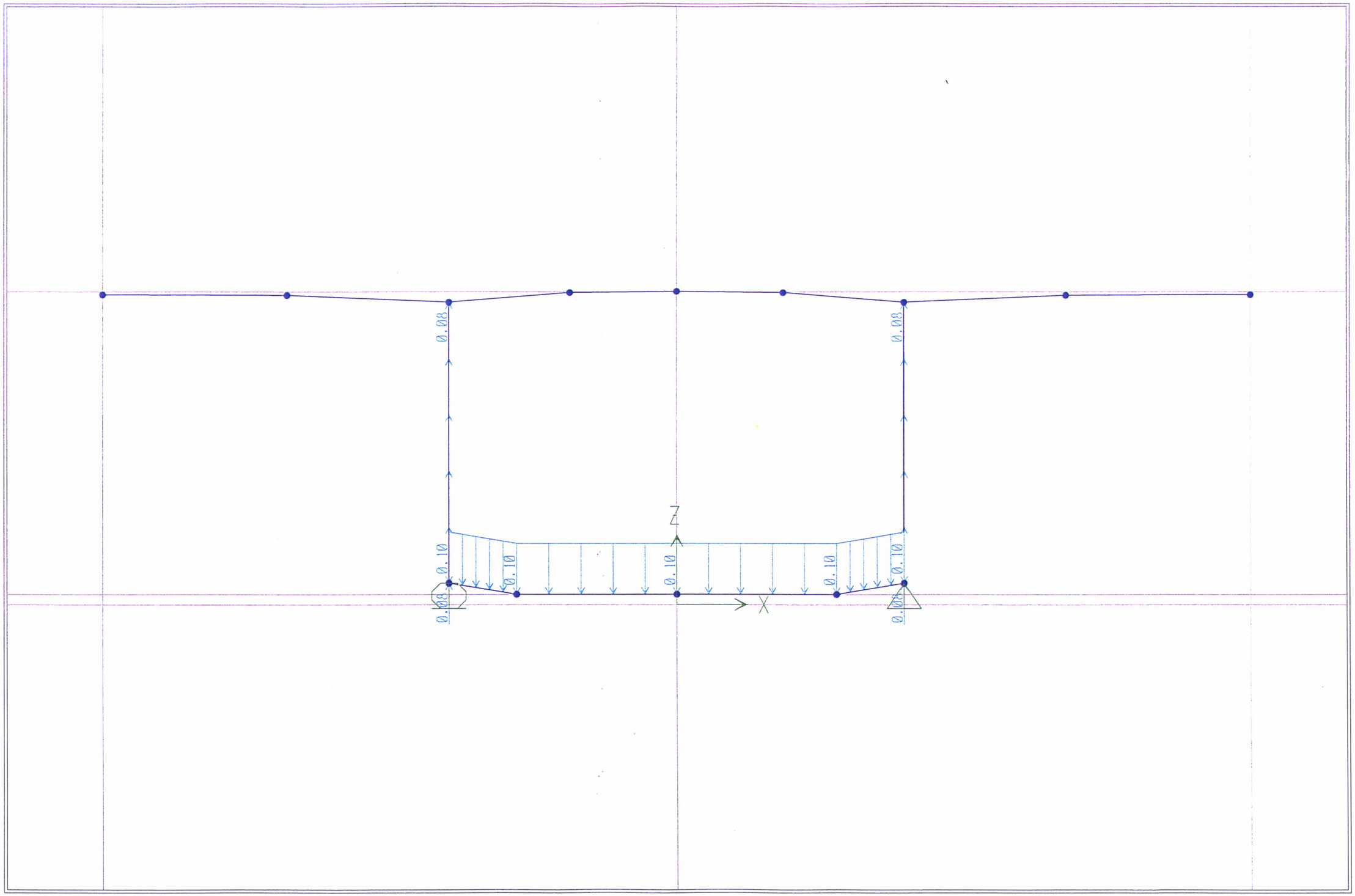
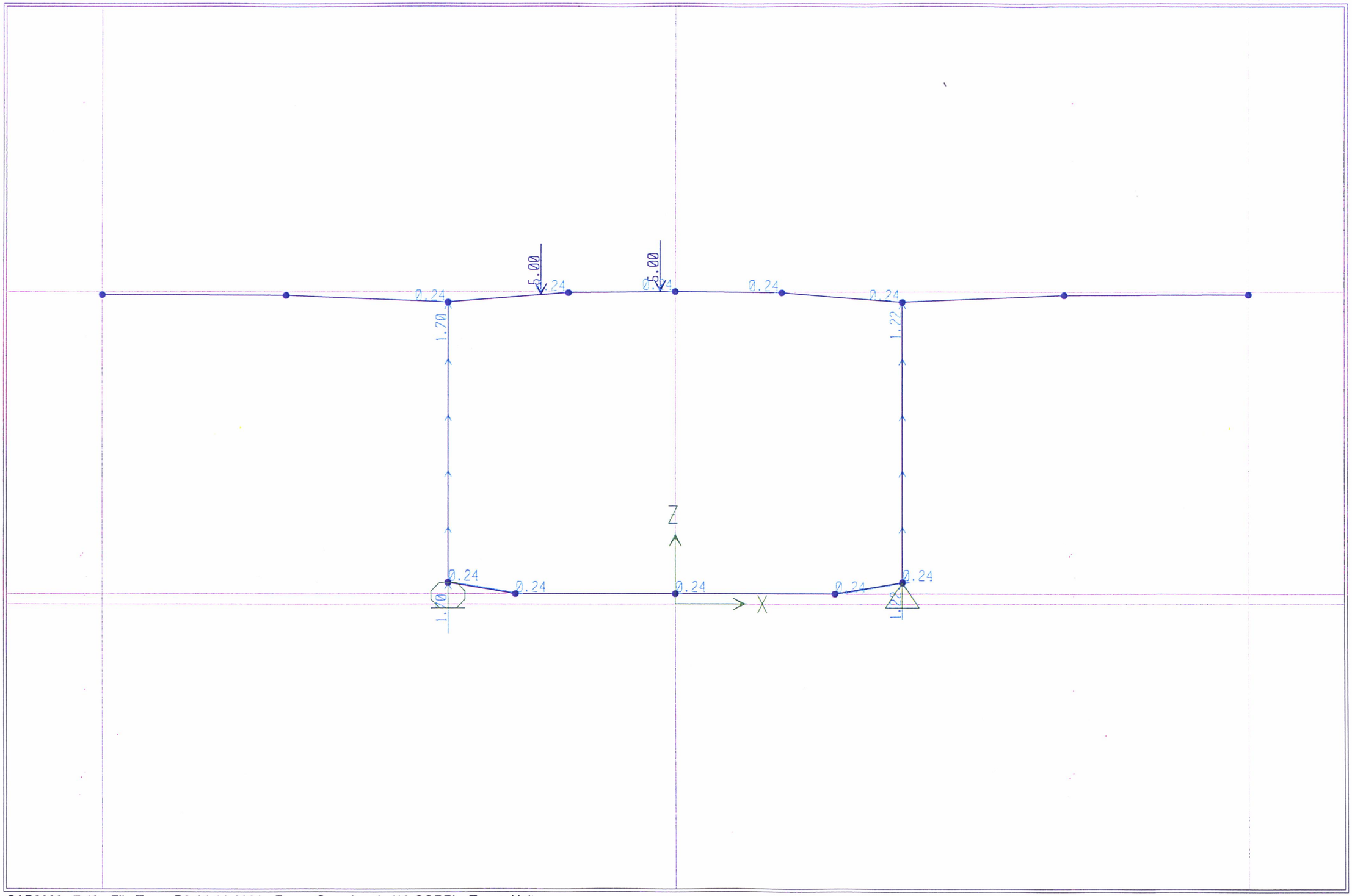


SAP2000 v7.40 - File:Trans-R0-14-11-2001 - Frame Span Loads (10-CORR) - Ton-m Units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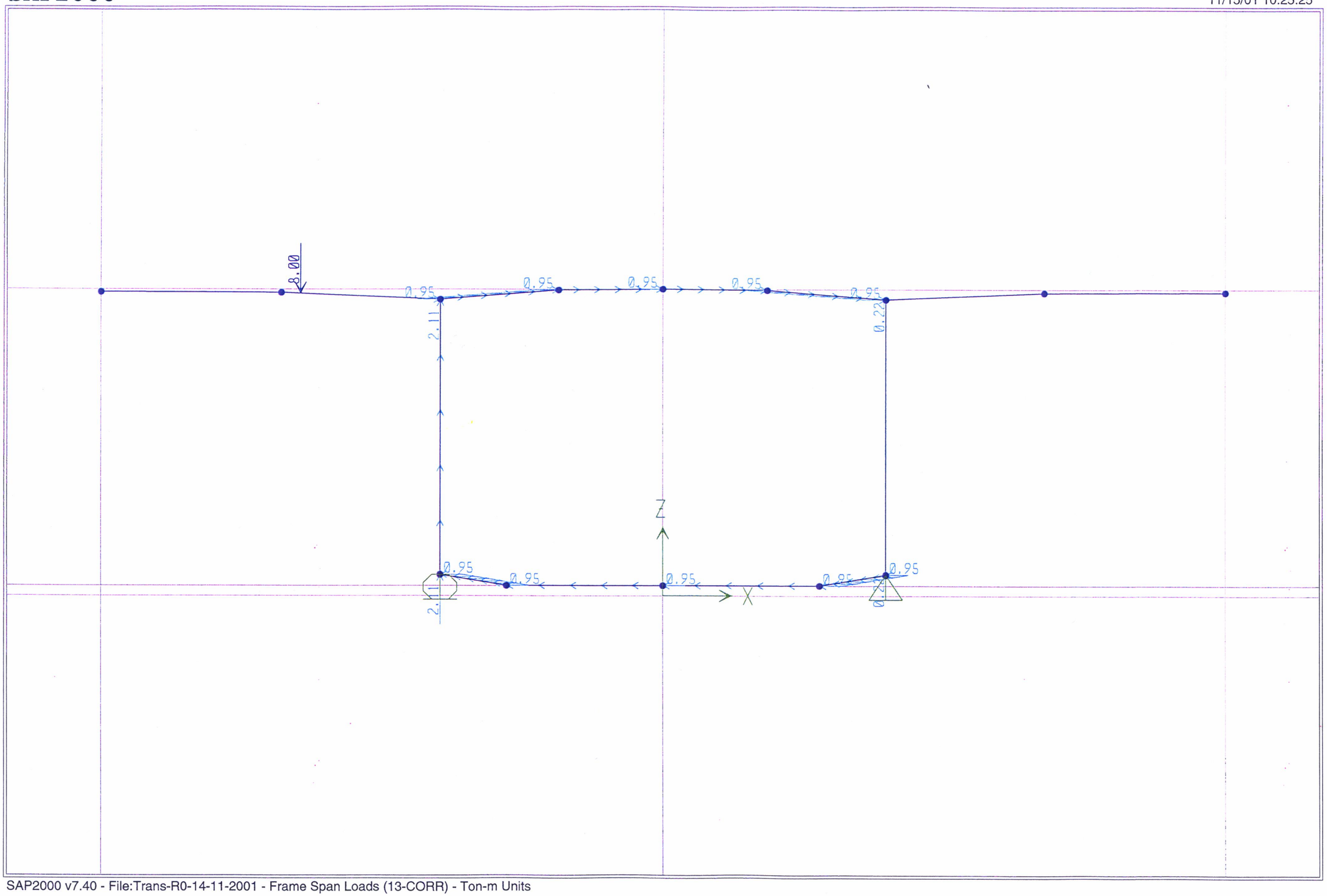
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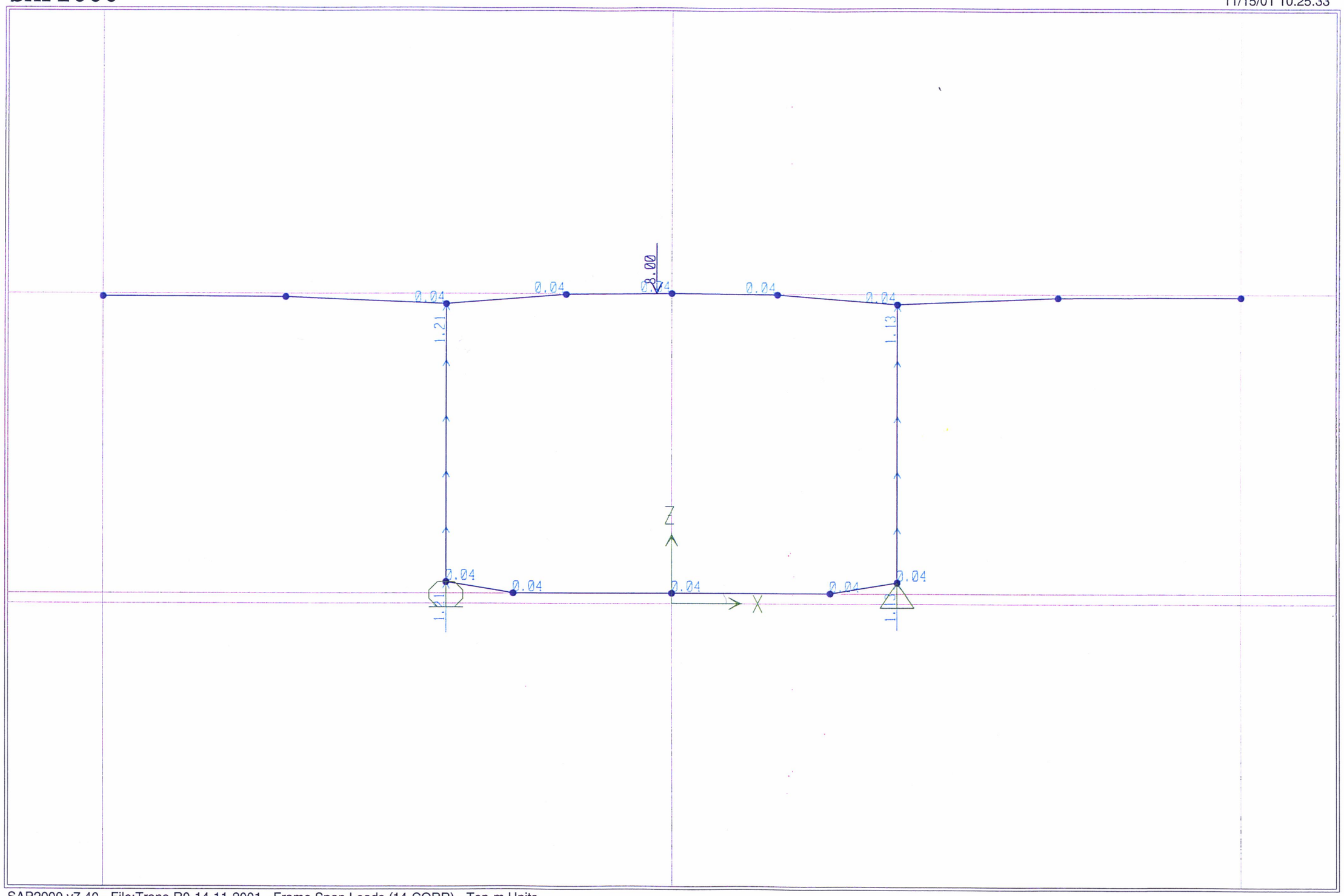
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0.04
0.04
0.04

JOINT REACTIONS TABLERO

LOAD	Reac-ap-izq	Reac-ap-dch
1-PP	12.41	12.44
2-RCP	7.18	7.18
3-IAPF1	19.96	19.96
4-IAPF2	22.12	17.79
5-IAPF3	18.44	1.51
6-IAPF4	19.53	0.43
7-IAPF5	17.36	2.59
8-PASE1	0.99	-0.37
9-PASE2	-0.37	0.99
10-L-INF	0.28	0.28
11-DESC1	11.83	-1.83
12-DESC2	6.64	3.36
13-DESC3	10.50	-2.50
14-DESC4	4.27	3.73
1-CORR	-0.01	0.02
2-CORR	0.00	0.00
3-CORR	0.00	0.00
4-CORR	-0.07	0.06
5-CORR	-0.27	0.26
6-CORR	-0.30	0.30
7-CORR	-0.23	0.23
8-CORR	-0.02	0.02
9-CORR	0.02	-0.02
10-CORR	0.00	0.00
11-CORR	-0.21	0.21
12-CORR	-0.05	0.05
13-CORR	-0.20	0.20
14-CORR	-0.01	0.01

JOINT REACTIONS

	a	t
Dimension-cajón:	5.550	3.432

	REACCIONES DE SECCION APOYADA			FUERZAS CORRECTORAS PARA SECCION SIN APOYAR			
LOAD	Rizq	Rdch	R Media	Mtors	f tors unit	f tors unit izq	f tors unit dch
01-PP	12.407	12.436	12.421	-0.081	-0.002	3.617	3.621
02-RCP	7.178	7.178	7.178	0.000	0.000	2.092	2.092
03-IAPF1	19.956	19.956	19.956	0.000	0.000	5.815	5.815
04-IAPF2	22.118	17.793	19.956	12.000	0.315	6.130	5.500
05-IAPF3	18.445	1.511	9.978	46.991	1.234	4.141	1.674
06-IAPF4	19.526	0.430	9.978	52.991	1.391	4.298	1.516
07-IAPF5	17.364	2.592	9.978	40.991	1.076	3.983	1.831
08-PASE1	0.989	-0.369	0.310	3.770	0.099	0.189	-0.009
09-PASE2	-0.369	0.989	0.310	-3.770	-0.099	-0.009	0.189
10-L-INF	0.279	0.279	0.279	0.000	0.000	0.081	0.081
11-DESC1	11.830	-1.830	5.000	37.909	0.995	2.452	0.462
12-DESC2	6.642	3.358	5.000	9.112	0.239	1.696	1.218
13-DESC3	10.505	-2.505	4.000	36.102	0.948	2.113	0.218
14-DESC4	4.268	3.732	4.000	1.490	0.039	1.205	1.126

TITLE VIADUCTO VINAIXA - FASE DE SERVICIO

F R A M E E L E M E N T F O R C E S

FRAME	LOAD	LOC	P	V2	V3	T	M2	M3
1	1-PP							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	-5.180E-04	2.283E-01	0.00	0.00	0.00	-6.248E-02
		1.12	-1.116E-03	4.916E-01	0.00	0.00	0.00	-2.631E-01
		1.69	-1.793E-03	7.901E-01	0.00	0.00	0.00	-6.215E-01
		2.25	-2.550E-03	1.12	0.00	0.00	0.00	-1.16
1	2-RCP							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	-4.162E-04	1.834E-01	0.00	0.00	0.00	-4.986E-02
		1.12	-1.672E-03	7.368E-01	0.00	0.00	0.00	-2.852E-01
		1.69	-2.808E-03	1.24	0.00	0.00	0.00	-8.059E-01
		2.25	-3.444E-03	1.52	0.00	0.00	0.00	-1.58
1	3-IAPF1							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	4-IAPF2							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	5-IAPF3							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	6-IAPF4							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	7-IAPF5							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	8-IAPF6							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	9-L-INF							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	10-DESC1							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	11-DESC2							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	12-DESC2							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	13-DESC3							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	14-DESC4							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	1-CORR							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	-5.180E-04	2.283E-01	0.00	0.00	0.00	-6.248E-02
		1.12	-1.116E-03	4.916E-01	0.00	0.00	0.00	-2.631E-01
		1.69	-1.793E-03	7.901E-01	0.00	0.00	0.00	-6.215E-01
		2.25	-2.550E-03	1.12	0.00	0.00	0.00	-1.16
1	2-CORR							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	-4.162E-04	1.834E-01	0.00	0.00	0.00	-4.986E-02
		1.12	-1.672E-03	7.368E-01	0.00	0.00	0.00	-2.852E-01
		1.69	-2.808E-03	1.24	0.00	0.00	0.00	-8.059E-01
		2.25	-3.444E-03	1.52	0.00	0.00	0.00	-1.58
1	3-CORR							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	4-CORR							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	5-CORR							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	6-CORR							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	7-CORR							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	8-CORR							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	-2.971E-04	1.309E-01	0.00	0.00	0.00	-1.714E-02
		1.12	-9.346E-04	4.119E-01	0.00	0.00	0.00	-1.696E-01
		1.69	-1.407E-03	6.200E-01	0.00	0.00	0.00	-4.747E-01
		2.25	-1.407E-03	6.200E-01	0.00	0.00	0.00	-8.331E-01
1	9-CORR							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00
		2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	10-CORR							
		0.00	0.00	0.00	0.00	0.00	0.00	0.00
		5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
		1.12	0.00	0.00	0.00	0.00	0.00	0.00
		1.69	0.00	0.00	0.00	0.00	0.00	0.00

	2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	11-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	12-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	13-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
1	14-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
2	1-PP						
	0.00	-4.837E-02	1.12	0.00	0.00	0.00	-1.16
	4.9E-01	-6.355E-02	1.47	0.00	0.00	0.00	-1.80
	9.9E-01	-8.245E-02	1.91	0.00	0.00	0.00	-2.63
	1.48	-1.051E-01	2.44	0.00	0.00	0.00	-3.70
	1.98	-1.314E-01	3.05	0.00	0.00	0.00	-5.06
2	2-RCP						
	0.00	-6.533E-02	1.52	0.00	0.00	0.00	-1.58
	4.9E-01	-8.772E-02	2.04	0.00	0.00	0.00	-2.46
	9.9E-01	-1.122E-01	2.60	0.00	0.00	0.00	-3.60
	1.48	-1.388E-01	3.22	0.00	0.00	0.00	-5.04
	1.98	-1.652E-01	3.83	0.00	0.00	0.00	-6.79
2	3-IAPF1						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	-1.504E-01	3.49	0.00	0.00	0.00	-7.935E-01
	1.98	-3.128E-01	7.26	0.00	0.00	0.00	-3.46
2	4-IAPF2						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	-8.595E-02	1.99	0.00	0.00	0.00	-2.590E-01
	1.48	-2.498E-01	5.80	0.00	0.00	0.00	-2.19
	1.98	-4.121E-01	9.57	0.00	0.00	0.00	-6.00
2	5-IAPF3						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	-1.504E-01	3.49	0.00	0.00	0.00	-7.935E-01
	1.98	-3.128E-01	7.26	0.00	0.00	0.00	-3.46
2	6-IAPF4						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	-8.595E-02	1.99	0.00	0.00	0.00	-2.590E-01
	1.48	-2.498E-01	5.80	0.00	0.00	0.00	-2.19
	1.98	-4.121E-01	9.57	0.00	0.00	0.00	-6.00
2	7-IAPF5						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	-5.114E-02	1.19	0.00	0.00	0.00	-9.170E-02
	1.98	-2.135E-01	4.96	0.00	0.00	0.00	-1.62
2	8-BASE1						
	0.00	-2.669E-02	6.194E-01	0.00	0.00	0.00	-8.231E-01
	4.9E-01	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.13
	9.9E-01	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.44
	1.48	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.74
	1.98	-2.669E-02	6.194E-01	0.00	0.00	0.00	-2.05
2	9-BASE2						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
2	10-L-INF						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
2	11-DESC1						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	-2.152E-01	5.00	0.00	0.00	0.00	-1.27
	9.9E-01	-2.152E-01	5.00	0.00	0.00	0.00	-3.74
	1.48	-2.152E-01	5.00	0.00	0.00	0.00	-6.22
	1.98	-4.304E-01	9.99	0.00	0.00	0.00	-10.16
2	12-DESC2						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
2	13-DESC3						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	-3.444E-01	7.99	0.00	0.00	0.00	-2.04
	9.9E-01	-3.444E-01	7.99	0.00	0.00	0.00	-5.99
	1.48	-3.444E-01	7.99	0.00	0.00	0.00	-9.95
	1.98	-3.444E-01	7.99	0.00	0.00	0.00	-13.90
2	14-DESC4						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
2	1-CORR						
	0.00	-4.837E-02	1.12	0.00	0.00	0.00	-1.16
	4.9E-01	-6.355E-02	1.47	0.00	0.00	0.00	-1.80
	9.9E-01	-8.245E-02	1.91	0.00	0.00	0.00	-2.63
	1.48	-1.051E-01	2.44	0.00	0.00	0.00	-3.70
	1.98	-1.314E-01	3.05	0.00	0.00	0.00	-5.06
2	2-CORR						
	0.00	-6.533E-02	1.52	0.00	0.00	0.00	-1.58
	4.9E-01	-8.772E-02	2.04	0.00	0.00	0.00	-2.46
	9.9E-01	-1.122E-01	2.60	0.00	0.00	0.00	-3.60
	1.48	-1.388E-01	3.22	0.00	0.00	0.00	-5.04
	1.98	-1.652E-01	3.83	0.00	0.00	0.00	-6.79
2	3-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	-1.504E-01	3.49	0.00	0.00	0.00	-7.935E-01
	1.98	-3.128E-01	7.26	0.00	0.00	0.00	-3.46
2	4-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	-8.595E-02	1.99	0.00	0.00	0.00	-2.590E-01
	1.48	-2.498E-01	5.80	0.00	0.00	0.00	-2.19
	1.98	-4.121E-01	9.57	0.00	0.00	0.00	-6.00
2	5-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	-1.504E-01	3.49	0.00	0.00	0.00	-7.935E-01
	1.98	-3.128E-01	7.26	0.00	0.00	0.00	-3.46
2	6-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	-8.595E-02	1.99	0.00	0.00	0.00	-2.590E-01
	1.48	-2.498E-01	5.80	0.00	0.00	0.00	-2.19
	1.98	-4.121E-01	9.57	0.00	0.00	0.00	-6.00
2	7-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	-5.114E-02	1.19	0.00	0.00	0.00	-9.170E-02
	1.98	-2.135E-01	4.96	0.00	0.00	0.00	-1.62
2	8-CORR						
	0.00	-2.669E-02	6.194E-01	0.00	0.00	0.00	-8.231E-01

	4.9E-01	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.13
	9.9E-01	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.44
	1.48	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.74
	1.98	-2.669E-02	6.194E-01	0.00	0.00	0.00	-2.05
2	9-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
2	10-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
2	11-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	-2.152E-01	5.00	0.00	0.00	0.00	-1.27
	9.9E-01	-2.152E-01	5.00	0.00	0.00	0.00	-3.74
	1.48	-2.152E-01	5.00	0.00	0.00	0.00	-6.22
	1.98	-4.304E-01	9.99	0.00	0.00	0.00	-10.16
2	12-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
2	13-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	-3.444E-01	7.99	0.00	0.00	0.00	-2.04
	9.9E-01	-3.444E-01	7.99	0.00	0.00	0.00	-5.98
	1.48	-3.444E-01	7.99	0.00	0.00	0.00	-9.95
	1.98	-3.444E-01	7.99	0.00	0.00	0.00	-13.90
2	14-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
3	1-BP						
	0.00	-1.275E-01	-2.50	0.00	0.00	0.00	-3.05
	3.7E-01	-9.058E-02	-2.03	0.00	0.00	0.00	-2.22
	7.4E-01	-5.752E-02	-1.62	0.00	0.00	0.00	-1.55
	1.11	-2.831E-02	-1.25	0.00	0.00	0.00	-1.02
	1.48	-2.951E-03	-9.313E-01	0.00	0.00	0.00	-6.180E-01
3	2-RCP						
	0.00	5.381E-01	-3.39	0.00	0.00	0.00	-4.27
	3.7E-01	5.750E-01	-2.93	0.00	0.00	0.00	-3.10
	7.4E-01	6.118E-01	-2.47	0.00	0.00	0.00	-2.10
	1.11	6.487E-01	-2.00	0.00	0.00	0.00	-1.28
	1.48	6.849E-01	-1.55	0.00	0.00	0.00	-6.221E-01
3	3-IAPF1						
	0.00	-3.02	-12.49	0.00	0.00	0.00	-9.72
	3.7E-01	-2.80	-9.81	0.00	0.00	0.00	-6.63
	7.4E-01	-2.65	-7.90	0.00	0.00	0.00	-4.25
	1.11	-2.42	-5.07	0.00	0.00	0.00	1.460E-01
	1.48	-2.20	-2.29	0.00	0.00	0.00	1.50
3	4-IAPF2						
	0.00	-2.95	-12.08	0.00	0.00	0.00	-11.42
	3.7E-01	-2.81	-10.33	0.00	0.00	0.00	-7.31
	7.4E-01	-2.58	-7.50	0.00	0.00	0.00	-3.92
	1.11	-2.36	-4.67	0.00	0.00	0.00	-1.87
	1.48	-2.14	-1.89	0.00	0.00	0.00	-4.733E-01
3	5-IAPF3						
	0.00	-1.90	-11.19	0.00	0.00	0.00	-6.95
	3.7E-01	-1.69	-8.51	0.00	0.00	0.00	-5.34
	7.4E-01	-1.54	-6.60	0.00	0.00	0.00	-4.338E-01
	1.11	-1.31	-3.77	0.00	0.00	0.00	1.48
	1.48	-1.09	-9.949E-01	0.00	0.00	0.00	2.45
3	6-IAPF4						
	0.00	-1.05	-9.88	0.00	0.00	0.00	-6.74
	3.7E-01	-9.061E-01	-8.12	0.00	0.00	0.00	-5.49
	7.4E-01	-6.808E-01	-5.29	0.00	0.00	0.00	-8.720E-01
	1.11	-4.555E-01	-2.47	0.00	0.00	0.00	5.601E-01
	1.48	-2.341E-01	3.148E-01	0.00	0.00	0.00	9.480E-01
3	7-IAPF5						
	0.00	-2.72	-12.47	0.00	0.00	0.00	-7.65
	3.7E-01	-2.49	-9.64	0.00	0.00	0.00	-3.57
	7.4E-01	-2.32	-7.49	0.00	0.00	0.00	-5.002E-01
	1.11	-2.13	-5.06	0.00	0.00	0.00	1.88
	1.48	-1.91	-2.28	0.00	0.00	0.00	3.22
3	8-PASE1						
	0.00	2.507E-01	-3.148E-01	0.00	0.00	0.00	-9.827E-01
	3.7E-01	2.507E-01	-3.148E-01	0.00	0.00	0.00	-8.665E-01
	7.4E-01	2.507E-01	-3.148E-01	0.00	0.00	0.00	-7.503E-01
	1.11	2.507E-01	-3.148E-01	0.00	0.00	0.00	-6.341E-01
	1.48	2.507E-01	-3.148E-01	0.00	0.00	0.00	-5.179E-01
3	9-PASE2						
	0.00	2.974E-01	2.712E-01	0.00	0.00	0.00	6.487E-01
	3.7E-01	2.974E-01	2.712E-01	0.00	0.00	0.00	5.486E-01
	7.4E-01	2.974E-01	2.712E-01	0.00	0.00	0.00	4.485E-01
	1.11	2.974E-01	2.712E-01	0.00	0.00	0.00	3.484E-01
	1.48	2.974E-01	2.712E-01	0.00	0.00	0.00	2.483E-01
3	10-L-INF						
	0.00	-5.459E-02	4.347E-03	0.00	0.00	0.00	-7.857E-03
	3.7E-01	-5.459E-02	4.347E-03	0.00	0.00	0.00	-9.463E-03
	7.4E-01	-5.459E-02	4.347E-03	0.00	0.00	0.00	-1.107E-02
	1.11	-5.459E-02	4.347E-03	0.00	0.00	0.00	-1.267E-02
	1.48	-5.459E-02	4.347E-03	0.00	0.00	0.00	-1.428E-02
3	11-DESC1						
	0.00	1.24	-1.56	0.00	0.00	0.00	-4.86
	3.7E-01	1.24	-1.56	0.00	0.00	0.00	-4.29
	7.4E-01	1.24	-1.56	0.00	0.00	0.00	-3.71
	1.11	1.24	-1.56	0.00	0.00	0.00	-3.14
	1.48	1.24	-1.56	0.00	0.00	0.00	-2.56
3	12-DESC2						
	0.00	-2.51	-6.63	0.00	0.00	0.00	-6.59
	3.7E-01	-2.51	-6.63	0.00	0.00	0.00	-4.14
	7.4E-01	-2.51	-6.63	0.00	0.00	0.00	-1.70
	1.11	-2.51	-6.63	0.00	0.00	0.00	7.483E-01
	1.48	-2.11	-1.64	0.00	0.00	0.00	1.53
3	13-DESC3						
	0.00	1.70	-2.13	0.00	0.00	0.00	-6.66
	3.7E-01	1.70	-2.13	0.00	0.00	0.00	-5.87
	7.4E-01	1.70	-2.13	0.00	0.00	0.00	-5.09
	1.11	1.70	-2.13	0.00	0.00	0.00	-4.30
	1.48	1.70	-2.13	0.00	0.00	0.00	-3.51
3	14-DESC4						
	0.00	-2.35	-4.15	0.00	0.00	0.00	-6.39
	3.7E-01	-2.35	-4.15	0.00	0.00	0.00	-4.86
	7.4E-01	-2.35	-4.15	0.00	0.00	0.00	-3.33
	1.11	-2.35	-4.15	0.00	0.00	0.00	-1.80
	1.48	-2.35	-4.15	0.00	0.00	0.00	-2.666E-01
3	1-CORR						
	0.00	-1.275E-01	-2.50	0.00	0.00	0.00	-3.05
	3.7E-01	-9.058E-02	-2.03	0.00	0.00	0.00	-2.22
	7.4E-01	-5.752E-02	-1.62	0.00	0.00	0.00	-1.55
	1.11	-2.831E-02	-1.25	0.00	0.00	0.00	-1.02
	1.48	-2.951E-03	-9.313E-01	0.00	0.00	0.00	-6.180E-01
3	2-CORR						
	0.00	5.381E-01	-3.39	0.00	0.00	0.00	-4.27
	3.7E-01	5.750E-01	-2.93	0.00	0.00	0.00	-3.10
	7.4E-01	6.118E-01	-2.47	0.00	0.00	0.00	-2.10
	1.11	6.487E-01	-2.00	0.00	0.00	0.00	-1.28
	1.48	6.849E-01	-1.55	0.00	0.00	0.00	-6.221E-01
3	3-CORR						
	0.00	-3.02	-12.49	0.00	0.00	0.00	-9.72
	3.7E-01	-2.80	-9.81	0.00	0.00	0.00	-6.63
	7.4E-01	-2.65	-7.90	0.00	0.00	0.00	-4.25
	1.11	-2.42	-5.07	0.00	0.00	0.00	1.460E-01
	1.48	-2.20	-2.29	0.00	0.00	0.00	1.50
3	4-CORR						
	0.00	-2.03	-11.59	0.00	0.00	0.00	-9.91
	3.7E-01	-2.01	-9.82	0.00	0.00	0.00	-5.89
	7.4E-01	-1.90	-6.98	0.00	0.00	0.00	-2.79
	1.11	-1.79	-4.14	0.00	0.00	0.00	-7.367E-01
	1.48	-1.68	-1.35	0.00	0.00	0.00	2.684E-01
3	5-CORR						
	0.00	1.70	-9.23	0.00	0.00	0.00	-1.04
	3.7E-01	1.46	-6.51	0.00	0.00	0.00	1.84
	7.4E-01	1.15	-4.57	0.00	0.00	0.00	4.00
	1.11	9.241E-01	-1.71	0.00	0.00	0.00	5.16

	1.48	6.914E-01	1.11	0.00	0.00	0.00	5.26
3	6-CORR						
	0.00	3.01	-7.67	0.00	0.00	0.00	-8.607E-02
	3.7E-01	2.64	-5.88	0.00	0.00	0.00	2.48
	7.4E-01	2.35	-3.01	0.00	0.00	0.00	4.12
	1.11	2.06	-1.355E-01	0.00	0.00	0.00	4.70
	1.48	1.77	2.69	0.00	0.00	0.00	4.22
3	7-CORR						
	0.00	4.167E-01	-10.76	0.00	0.00	0.00	-2.50
	3.7E-01	2.461E-01	-7.90	0.00	0.00	0.00	9.451E-01
	7.4E-01	2.163E-02	-5.72	0.00	0.00	0.00	3.36
	1.11	-1.806E-01	-3.25	0.00	0.00	0.00	5.08
	1.48	-3.551E-01	-4.415E-01	0.00	0.00	0.00	5.76
3	8-CORR						
	0.00	5.393E-01	-1.577E-01	0.00	0.00	0.00	-5.081E-01
	3.7E-01	5.029E-01	-1.548E-01	0.00	0.00	0.00	-4.514E-01
	7.4E-01	4.664E-01	-1.519E-01	0.00	0.00	0.00	-3.948E-01
	1.11	4.300E-01	-1.490E-01	0.00	0.00	0.00	-3.392E-01
	1.48	3.936E-01	-1.461E-01	0.00	0.00	0.00	-2.848E-01
3	9-CORR						
	0.00	8.766E-03	1.141E-01	0.00	0.00	0.00	1.75[illegible]E-01
	3.7E-01	4.519E-02	1.112E-01	0.00	0.00	0.00	1.3[illegible]E-01
	7.4E-01	8.162E-02	1.083E-01	0.00	0.00	0.00	9.[illegible]E-02
	1.11	1.180E-01	1.054E-01	0.00	0.00	0.00	5.[illegible]E-02
	1.48	1.545E-01	1.025E-01	0.00	0.00	0.00	1.515E-02
3	10-CORR						
	0.00	-5.459E-02	4.347E-03	0.00	0.00	0.00	-7.857E-03
	3.7E-01	-5.459E-02	4.347E-03	0.00	0.00	0.00	-9.462E-03
	7.4E-01	-5.459E-02	4.347E-03	0.00	0.00	0.00	-1.107E-02
	1.11	-5.459E-02	4.347E-03	0.00	0.00	0.00	-1.267E-02
	1.48	-5.459E-02	4.347E-03	0.00	0.00	0.00	-1.428E-02
3	11-CORR						
	0.00	4.14	2.260E-02	0.00	0.00	0.00	-9.930E-02
	3.7E-01	3.78	5.175E-02	0.00	0.00	0.00	-1.130E-01
	7.4E-01	3.41	8.091E-02	0.00	0.00	0.00	-1.375E-01
	1.11	3.05	1.101E-01	0.00	0.00	0.00	-1.728E-01
	1.48	2.68	1.392E-01	0.00	0.00	0.00	-2.189E-01
3	12-CORR						
	0.00	-1.81	-6.25	0.00	0.00	0.00	-5.45
	3.7E-01	-1.90	-6.24	0.00	0.00	0.00	-3.14
	7.4E-01	-1.99	-6.24	0.00	0.00	0.00	-8.401E-01
	1.11	-2.07	-6.23	0.00	0.00	0.00	1.46
	1.48	-1.77	-1.24	0.00	0.00	0.00	2.09
3	13-CORR						
	0.00	4.46	-6.291E-01	0.00	0.00	0.00	-2.[illegible]
	3.7E-01	4.12	-6.013E-01	0.00	0.00	0.00	-2.[illegible]
	7.4E-01	3.77	-5.735E-01	0.00	0.00	0.00	-1.68
	1.11	3.42	-5.458E-01	0.00	0.00	0.00	-1.47
	1.48	3.07	-5.180E-01	0.00	0.00	0.00	-1.28
3	14-CORR						
	0.00	-2.23	-4.08	0.00	0.00	0.00	-6.20
	3.7E-01	-2.35	-4.08	0.00	0.00	0.00	-4.69
	7.4E-01	-2.26	-4.08	0.00	0.00	0.00	-3.19
	1.11	-2.38	-4.08	0.00	0.00	0.00	-1.68
	1.48	-2.29	-4.08	0.00	0.00	0.00	-1.747E-01
4	1-EP						
	0.00	6.165E-02	-9.292E-01	0.00	0.00	0.00	-6.180E-01
	3.3E-01	6.419E-02	-6.757E-01	0.00	0.00	0.00	-3.569E-01
	6.5E-01	6.660E-02	-4.365E-01	0.00	0.00	0.00	-1.761E-01
	9.8E-01	6.886E-02	-2.115E-01	0.00	0.00	0.00	-7.091E-02
	1.30	7.098E-02	-7.135E-04	0.00	0.00	0.00	-3.673E-02
4	2-RCP						
	0.00	7.907E-01	-1.50	0.00	0.00	0.00	-6.221E-01
	3.3E-01	7.949E-01	-1.09	0.00	0.00	0.00	-2.007E-01
	6.5E-01	7.989E-01	-6.895E-01	0.00	0.00	0.00	8.756E-02
	9.8E-01	8.023E-01	-3.471E-01	0.00	0.00	0.00	2.564E-01
	1.30	8.057E-01	-8.099E-03	0.00	0.00	0.00	3.137E-01
4	3-IAPF1						
	0.00	-2.04	-2.44	0.00	0.00	0.00	1.50
	3.3E-01	-2.01	2.025E-02	0.00	0.00	0.00	1.88
	6.5E-01	-2.01	2.025E-02	0.00	0.00	0.00	1.88
	9.8E-01	-2.01	2.025E-02	0.00	0.00	0.00	1,87
	1.30	-2.01	2.025E-02	0.00	0.00	0.00	1.86
4	4-IAPF2						
	0.00	-2.00	-2.03	0.00	0.00	0.00	-4.733E-01
	3.3E-01	-2.00	-1.88	0.00	0.00	0.00	1.405E-01
	6.5E-01	-2.00	-1.88	0.00	0.00	0.00	7.528E-01
	9.8E-01	-2.00	-1.88	0.00	0.00	0.00	1.37
	1.30	-2.00	-1.88	0.00	0.00	0.00	1.98
4	5-IAPF3						
	0.00	-1.02	-1.07	0.00	0.00	0.00	2.35
	3.3E-01	-9.932E-01	1.39	0.00	0.00	0.00	2.29
	6.5E-01	-9.932E-01	1.39	0.00	0.00	0.00	1.84
	9.8E-01	-9.932E-01	1.39	0.00	0.00	0.00	1.39
	1.30	-9.932E-01	1.39	0.00	0.00	0.00	9.319E-01
4	6-IAPF4						
	0.00	-2.554E-01	2.978E-01	0.00	0.00	0.00	9.480E-01
	3.3E-01	-2.538E-01	4.516E-01	0.00	0.00	0.00	8.024E-01
	6.5E-01	-2.538E-01	4.516E-01	0.00	0.00	0.00	6.553E-01
	9.8E-01	-2.538E-01	4.516E-01	0.00	0.00	0.00	5.081E-01
	1.30	-2.538E-01	4.516E-01	0.00	0.00	0.00	3.610E-01
4	7-IAPF5						
	0.00	-1.75	-2.40	0.00	0.00	0.00	3.22
	3.3E-01	-1.72	1.034E-01	0.00	0.00	0.00	3.60
	6.5E-01	-1.70	2.37	0.00	0.00	0.00	3.16
	9.8E-01	-1.70	2.37	0.00	0.00	0.00	2.39
	1.30	-1.70	2.37	0.00	0.00	0.00	1.62
4	8-BASE1						
	0.00	2.719E-01	-2.967E-01	0.00	0.00	0.00	-5.179E-01
	3.3E-01	2.719E-01	-2.967E-01	0.00	0.00	0.00	-4.212E-01
	6.5E-01	2.719E-01	-2.967E-01	0.00	0.00	0.00	-3.245E-01
	9.8E-01	2.719E-01	-2.967E-01	0.00	0.00	0.00	-2.279E-01
	1.30	2.719E-01	-2.967E-01	0.00	0.00	0.00	-1.312E-01
4	9-BASE2						
	0.00	2.778E-01	2.912E-01	0.00	0.00	0.00	2.483E-01
	3.3E-01	2.778E-01	2.912E-01	0.00	0.00	0.00	1.534E-01
	6.5E-01	2.778E-01	2.912E-01	0.00	0.00	0.00	5.853E-02
	9.8E-01	2.778E-01	2.912E-01	0.00	0.00	0.00	-3.634E-02
	1.30	2.778E-01	2.912E-01	0.00	0.00	0.00	-1.312E-01
4	10-L-INF						
	0.00	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.428E-02
	3.3E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.445E-02
	6.5E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.463E-02
	9.8E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.481E-02
	1.30	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.499E-02
4	11-DESC1						
	0.00	1.35	-1.47	0.00	0.00	0.00	-2.56
	3.3E-01	1.35	-1.47	0.00	0.00	0.00	-2.08
	6.5E-01	1.35	-1.47	0.00	0.00	0.00	-1.61
	9.8E-01	1.35	-1.47	0.00	0.00	0.00	-1.13
	1.30	1.35	-1.47	0.00	0.00	0.00	-6.505E-01
4	12-DESC2						
	0.00	-1.99	-1.79	0.00	0.00	0.00	1.53
	3.3E-01	-1.99	-1.79	0.00	0.00	0.00	1.11
	6.5E-01	-1.99	-1.79	0.00	0.00	0.00	1.69
	9.8E-01	-1.99	-1.79	0.00	0.00	0.00	1.28
	1.30	-1.94	3.21	0.00	0.00	0.00	2.93
4	13-DESC3						
	0.00	1.84	-2.01	0.00	0.00	0.00	-3.51
	3.3E-01	1.84	-2.01	0.00	0.00	0.00	-2.86
	6.5E-01	1.84	-2.01	0.00	0.00	0.00	-2.20
	9.8E-01	1.84	-2.01	0.00	0.00	0.00	-1.55
	1.30	1.84	-2.01	0.00	0.00	0.00	-8.901E-01
4	14-DESC4						
	0.00	-2.05	-4.30	0.00	0.00	0.00	-2.866E-01
	3.3E-01	-2.05	-4.30	0.00	0.00	0.00	1.13
	6.5E-01	-2.05	-4.30	0.00	0.00	0.00	1.53
	9.8E-01	-2.05	-4.30	0.00	0.00	0.00	1.93
	1.30	-1.97	3.70	0.00	0.00	0.00	2.35
4	1-CORR						
	0.00	6.165E-02	-9.292E-01	0.00	0.00	0.00	-6.180E-01
	3.3E-01	6.419E-02	-6.757E-01	0.00	0.00	0.00	-3.569E-01
	6.5E-01	6.660E-02	-4.365E-01	0.00	0.00	0.00	-1.761E-01
	9.8E-01	6.886E-02	-2.115E-01	0.00	0.00	0.00	-7.091E-02
	1.30	7.098E-02	-7.135E-04	0.00	0.00	0.00	-3.673E-02
4	2-CORR						
	0.00	7.907E-01	-1.50	0.00	0.00	0.00	-6.221E-01
	3.3E-01	7.949E-01	-1.09	0.00	0.00	0.00	-2.007E-01
	6.5E-01	7.989E-01	-6.895E-01	0.00	0.00	0.00	8.756E-02
	9.8E-01	8.023E-01	-3.471E-01	0.00	0.00	0.00	2.564E-01
	1.30	8.057E-01	-8.099E-03	0.00	0.00	0.00	3.137E-01
4	3-CORR						
	0.00	-2.04	-2.44	0.00	0.00	0.00	1.50

	3.3E-01	-2.01	2.025E-02	0.00	0.00	0.00	1.88
	6.5E-01	-2.01	2.025E-02	0.00	0.00	0.00	1.88
	9.8E-01	-2.01	2.025E-02	0.00	0.00	0.00	1.87
	1.30	-2.01	2.025E-02	0.00	0.00	0.00	1.86
4	4-CORR						
	0.00	-1.58	-1.47	0.00	0.00	0.00	2.684E-01
	3.3E-01	-1.69	-1.31	0.00	0.00	0.00	6.973E-01
	6.5E-01	-1.79	-1.31	0.00	0.00	0.00	1.12
	9.8E-01	-1.89	-1.31	0.00	0.00	0.00	1.55
	1.30	-1.99	-1.31	0.00	0.00	0.00	1.98
4	5-CORR						
	0.00	6.129E-01	1.15	0.00	0.00	0.00	5.26
	3.3E-01	2.356E-01	3.62	0.00	0.00	0.00	4.47
	6.5E-01	-1.664E-01	3.62	0.00	0.00	0.00	3.29
	9.8E-01	-5.685E-01	3.63	0.00	0.00	0.00	2.11
	1.30	-9.705E-01	3.63	0.00	0.00	0.00	9.320E-01
4	6-CORR						
	0.00	1.58	2.80	0.00	0.00	0.00	4.22
	3.3E-01	1.13	2.96	0.00	0.00	0.00	3.26
	6.5E-01	6.781E-01	2.96	0.00	0.00	0.00	2.30
	9.8E-01	2.250E-01	2.97	0.00	0.00	0.00	1.33
	1.30	-2.282E-01	2.97	0.00	0.00	0.00	3.610E-01
4	7-CORR						
	0.00	-3.236E-01	-4.651E-01	0.00	0.00	0.00	5.76
	3.3E-01	-6.490E-01	2.04	0.00	0.00	0.00	5.50
	6.5E-01	-9.768E-01	4.31	0.00	0.00	0.00	4.43
	9.8E-01	-1.33	4.31	0.00	0.00	0.00	3.01
	1.30	-1.68	4.32	0.00	0.00	0.00	1.62
4	8-CORR						
	0.00	4.028E-01	-1.185E-01	0.00	0.00	0.00	-2.848E-01
	3.3E-01	3.705E-01	-1.182E-01	0.00	0.00	0.00	-2.462E-01
	6.5E-01	3.383E-01	-1.178E-01	0.00	0.00	0.00	-2.078E-01
	9.8E-01	3.060E-01	-1.175E-01	0.00	0.00	0.00	-1.694E-01
	1.30	2.737E-01	-1.172E-01	0.00	0.00	0.00	-1.312E-01
4	9-CORR						
	0.00	1.470E-01	1.130E-01	0.00	0.00	0.00	1.515E-02
	3.3E-01	1.792E-01	1.126E-01	0.00	0.00	0.00	-2.160E-02
	6.5E-01	2.115E-01	1.123E-01	0.00	0.00	0.00	-5.824E-02
	9.8E-01	2.438E-01	1.120E-01	0.00	0.00	0.00	-9.478E-02
	1.30	2.760E-01	1.117E-01	0.00	0.00	0.00	-1.312E-01
4	10-CORR						
	0.00	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.428E-02
	3.3E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.445E-02
	6.5E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.463E-02
	9.8E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.481E-02
	1.30	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.499E-02
4	11-CORR						
	0.00	2.66	3.247E-01	0.00	0.00	0.00	-2.188E-01
	3.3E-01	2.34	3.280E-01	0.00	0.00	0.00	-3.251E-01
	6.5E-01	2.01	3.312E-01	0.00	0.00	0.00	-4.325E-01
	9.8E-01	1.69	3.345E-01	0.00	0.00	0.00	-5.409E-01
	1.30	1.37	3.377E-01	0.00	0.00	0.00	-6.504E-01
4	12-CORR						
	0.00	-1.68	-1.36	0.00	0.00	0.00	2.09
	3.3E-01	-1.75	-1.36	0.00	0.00	0.00	2.53
	6.5E-01	-1.83	-1.35	0.00	0.00	0.00	2.98
	9.8E-01	-1.91	-1.35	0.00	0.00	0.00	3.42
	1.30	-1.94	3.65	0.00	0.00	0.00	2.91
4	13-CORR						
	0.00	3.10	-3.039E-01	0.00	0.00	0.00	-1.28
	3.3E-01	2.79	-3.008E-01	0.00	0.00	0.00	-1.18
	6.5E-01	2.48	-2.977E-01	0.00	0.00	0.00	-1.08
	9.8E-01	2.17	-2.946E-01	0.00	0.00	0.00	-9.856E-01
	1.30	1.86	-2.915E-01	0.00	0.00	0.00	-8.901E-01
4	14-CORR						
	0.00	-2.00	-4.23	0.00	0.00	0.00	-1.747E-01
	3.3E-01	-2.02	-4.23	0.00	0.00	0.00	1.20
	6.5E-01	-2.03	-4.23	0.00	0.00	0.00	2.58
	9.8E-01	-2.04	-4.23	0.00	0.00	0.00	3.96
	1.30	-1.97	3.77	0.00	0.00	0.00	3.85
5	1-PP						
	0.00	6.165E-02	-9.292E-01	0.00	0.00	0.00	-6.180E-01
	3.3E-01	6.419E-02	-6.757E-01	0.00	0.00	0.00	-3.569E-01
	6.5E-01	6.660E-02	-4.365E-01	0.00	0.00	0.00	-1.761E-01
	9.8E-01	6.886E-02	-2.115E-01	0.00	0.00	0.00	-7.091E-02
	1.30	7.098E-02	-7.135E-04	0.00	0.00	0.00	-3.673E-02
5	2-RCP						
	0.00	7.907E-01	-1.50	0.00	0.00	0.00	-6.221E-01
	3.3E-01	7.949E-01	-1.09	0.00	0.00	0.00	-2.007E-01
	6.5E-01	7.989E-01	-6.895E-01	0.00	0.00	0.00	8.756E-02
	9.8E-01	8.023E-01	-3.471E-01	0.00	0.00	0.00	2.564E-01
	1.30	8.057E-01	-3.099E-03	0.00	0.00	0.00	3.137E-01
5	3-IAPF1						
	0.00	-2.04	-2.44	0.00	0.00	0.00	1.50
	3.3E-01	-2.01	2.025E-02	0.00	0.00	0.00	1.88
	6.5E-01	-2.01	2.025E-02	0.00	0.00	0.00	1.88
	9.8E-01	-2.01	2.025E-02	0.00	0.00	0.00	1.87
	1.30	-2.01	2.025E-02	0.00	0.00	0.00	1.86
5	4-IAPF2						
	0.00	-2.01	-2.85	0.00	0.00	0.00	3.00
	3.3E-01	-1.98	-3.430E-01	0.00	0.00	0.00	3.52
	6.5E-01	-1.96	1.92	0.00	0.00	0.00	3.23
	9.8E-01	-1.96	1.92	0.00	0.00	0.00	2.60
	1.30	-1.96	1.92	0.00	0.00	0.00	1.98
5	5-IAPF3						
	0.00	-1.02	-1.37	0.00	0.00	0.00	-8.566E-01
	3.3E-01	-1.02	-1.37	0.00	0.00	0.00	-4.094E-01
	6.5E-01	-1.02	-1.37	0.00	0.00	0.00	3.769E-02
	9.8E-01	-1.02	-1.37	0.00	0.00	0.00	4.848E-01
	1.30	-1.02	-1.37	0.00	0.00	0.00	9.319E-01
5	6-IAPF4						
	0.00	-2.629E-01	-1.464E-01	0.00	0.00	0.00	-1.109E-01
	3.3E-01	-2.629E-01	-1.464E-01	0.00	0.00	0.00	-7.541E-02
	6.5E-01	-2.629E-01	-1.464E-01	0.00	0.00	0.00	7.004E-02
	9.8E-01	-2.629E-01	-1.464E-01	0.00	0.00	0.00	2.156E-01
	1.30	-2.629E-01	-1.464E-01	0.00	0.00	0.00	3.610E-01
5	7-IAPF5						
	0.00	-1.74	-2.33	0.00	0.00	0.00	-1.42
	3.3E-01	-1.74	-2.33	0.00	0.00	0.00	-6.619E-01
	6.5E-01	-1.74	-2.33	0.00	0.00	0.00	9.759E-02
	9.8E-01	-1.74	-2.33	0.00	0.00	0.00	8.571E-01
	1.30	-1.74	-2.33	0.00	0.00	0.00	1.62
5	8-BASE1						
	0.00	2.778E-01	2.912E-01	0.00	0.00	0.00	2.483E-01
	3.3E-01	2.778E-01	2.912E-01	0.00	0.00	0.00	1.534E-01
	6.5E-01	2.778E-01	2.912E-01	0.00	0.00	0.00	5.853E-02
	9.8E-01	2.778E-01	2.912E-01	0.00	0.00	0.00	-3.634E-02
	1.30	2.778E-01	2.912E-01	0.00	0.00	0.00	-1.312E-01
5	9-BASE2						
	0.00	2.719E-01	-2.967E-01	0.00	0.00	0.00	-5.17 E-01
	3.3E-01	2.719E-01	-2.967E-01	0.00	0.00	0.00	-4.212E-01
	6.5E-01	2.719E-01	-2.967E-01	0.00	0.00	0.00	-3.245E-01
	9.8E-01	2.719E-01	-2.967E-01	0.00	0.00	0.00	-2.279E-01
	1.30	2.719E-01	-2.967E-01	0.00	0.00	0.00	-1.31_E-01
5	10-L-INF						
	0.00	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.428E-02
	3.3E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.445E-02
	6.5E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.463E-02
	9.8E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.481E-02
	1.30	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.499E-02
5	11-DESC1						
	0.00	1.38	1.44	0.00	0.00	0.00	1.22
	3.3E-01	1.38	1.44	0.00	0.00	0.00	7.561E-01
	6.5E-01	1.38	1.44	0.00	0.00	0.00	2.872E-01
	9.8E-01	1.38	1.44	0.00	0.00	0.00	-1.816E-01
	1.30	1.38	1.44	0.00	0.00	0.00	-6.505E-01
5	12-DESC2						
	0.00	-2.01	-3.17	0.00	0.00	0.00	-1.21
	3.3E-01	-2.01	-3.17	0.00	0.00	0.00	-1.743E-01
	6.5E-01	-2.01	-3.17	0.00	0.00	0.00	8.597E-01
	9.8E-01	-2.01	-3.17	0.00	0.00	0.00	1.89
	1.30	-2.01	-3.17	0.00	0.00	0.00	2.93
5	13-DESC3						
	0.00	1.88	1.97	0.00	0.00	0.00	1.68
	3.3E-01	1.88	1.97	0.00	0.00	0.00	1.04
	6.5E-01	1.88	1.97	0.00	0.00	0.00	3.954E-01
	9.8E-01	1.88	1.97	0.00	0.00	0.00	-2.474E-01
	1.30	1.88	1.97	0.00	0.00	0.00	-8.901E-01
5	14-DESC4						
	0.00	-2.05	-3.66	0.00	0.00	0.00	-9.356E-01
	3.3E-01	-2.05	-3.66	0.00	0.00	0.00	-2.671E-01
	6.5E-01	-2.05	-3.66	0.00	0.00	0.00	1.46
	9.8E-01	-2.05	-3.66	0.00	0.00	0.00	2.65

	1.30	-2.05	-3.66	0.00	0.00	0.00	-3.85
5	1-CORR						
	0.00	6.165E-02	-9.292E-01	0.00	0.00	0.00	-6.180E-01
	3.3E-01	6.419E-02	-6.757E-01	0.00	0.00	0.00	-3.569E-01
	6.5E-01	6.660E-02	-4.365E-01	0.00	0.00	0.00	-1.761E-01
	9.8E-01	6.886E-02	-2.115E-01	0.00	0.00	0.00	-7.091E-02
	1.30	7.098E-02	-7.135E-04	0.00	0.00	0.00	-3.673E-02
5	2-CORR						
	0.00	7.907E-01	-1.50	0.00	0.00	0.00	-6.221E-01
	3.3E-01	7.949E-01	-1.09	0.00	0.00	0.00	-2.007E-01
	6.5E-01	7.989E-01	-6.895E-01	0.00	0.00	0.00	8.756E-02
	9.8E-01	8.023E-01	-3.471E-01	0.00	0.00	0.00	2.564E-01
	1.30	8.057E-01	-8.099E-03	0.00	0.00	0.00	3.137E-01
5	3-CORR						
	0.00	-2.04	-2.44	0.00	0.00	0.00	1.50
	3.3E-01	-2.01	2.025E-02	0.00	0.00	0.00	1.88
	6.5E-01	-2.01	2.025E-02	0.00	0.00	0.00	1.88
	9.8E-01	-2.01	2.025E-02	0.00	0.00	0.00	1.87
	1.30	-2.01	2.025E-02	0.00	0.00	0.00	1.86
5	4-CORR						
	0.00	-2.42	-3.42	0.00	0.00	0.00	2.26
	3.3E-01	-2.30	-9.111E-01	0.00	0.00	0.00	2.36
	6.5E-01	-2.17	1.35	0.00	0.00	0.00	2.36
	9.8E-01	-2.07	1.35	0.00	0.00	0.00	2.42
	1.30	-1.97	1.35	0.00	0.00	0.00	1.98
5	5-CORR						
	0.00	-2.65	-3.59	0.00	0.00	0.00	-3.76
	3.3E-01	-2.25	-3.60	0.00	0.00	0.00	-2.59
	6.5E-01	-1.85	-3.60	0.00	0.00	0.00	-1.42
	9.8E-01	-1.45	-3.61	0.00	0.00	0.00	-5.436E-01
	1.30	-1.04	-3.61	0.00	0.00	0.00	9.320E-01
5	6-CORR						
	0.00	-2.10	-2.95	0.00	0.00	0.00	-3.50
	3.3E-01	-1.65	-2.95	0.00	0.00	0.00	-2.53
	6.5E-01	-1.19	-2.96	0.00	0.00	0.00	-1.57
	9.8E-01	-7.412E-01	-2.96	0.00	0.00	0.00	-6.054E-01
	1.30	-2.880E-01	-2.97	0.00	0.00	0.00	3.610E-01
5	7-CORR						
	0.00	-3.17	-4.27	0.00	0.00	0.00	-3.45
	3.3E-01	-2.82	-4.27	0.00	0.00	0.00	-2.56
	6.5E-01	-2.47	-4.27	0.00	0.00	0.00	-1.17
	9.8E-01	-2.11	-4.28	0.00	0.00	0.00	2.220E-01
	1.30	-1.76	-4.28	0.00	0.00	0.00	1.62
5	8-CORR						
	0.00	1.470E-01	1.130E-01	0.00	0.00	0.00	1.510E-02
	3.3E-01	1.793E-01	1.126E-01	0.00	0.00	0.00	-2.158E-02
	6.5E-01	2.115E-01	1.123E-01	0.00	0.00	0.00	-5.825E-02
	9.8E-01	2.438E-01	1.120E-01	0.00	0.00	0.00	-9.477E-02
	1.30	2.760E-01	1.117E-01	0.00	0.00	0.00	-1.313E-01
5	9-CORR						
	0.00	4.027E-01	-1.185E-01	0.00	0.00	0.00	-2.848E-01
	3.3E-01	3.705E-01	-1.182E-01	0.00	0.00	0.00	-2.462E-01
	6.5E-01	3.382E-01	-1.178E-01	0.00	0.00	0.00	-2.078E-01
	9.8E-01	3.060E-01	-1.175E-01	0.00	0.00	0.00	-1.694E-01
	1.30	2.737E-01	-1.172E-01	0.00	0.00	0.00	-1.311E-01
5	10-CORR						
	0.00	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.428E-02
	3.3E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.445E-02
	6.5E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.463E-02
	9.8E-01	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.481E-02
	1.30	-5.476E-02	5.505E-04	0.00	0.00	0.00	-1.499E-02
5	11-CORR						
	0.00	6.275E-02	-3.521E-01	0.00	0.00	0.00	-2.22
	3.3E-01	3.869E-01	-3.554E-01	0.00	0.00	0.00	-1.06
	6.5E-01	7.111E-01	-3.586E-01	0.00	0.00	0.00	-8.862E-01
	9.8E-01	1.04	-3.619E-01	0.00	0.00	0.00	-7.689E-01
	1.30	1.36	-3.651E-01	0.00	0.00	0.00	-6.504E-01
5	12-CORR						
	0.00	-2.32	-3.60	0.00	0.00	0.00	-1.77
	3.3E-01	-2.24	-3.60	0.00	0.00	0.00	-5.867E-01
	6.5E-01	-2.17	-3.61	0.00	0.00	0.00	5.778E-01
	9.8E-01	-2.09	-3.61	0.00	0.00	0.00	1.75
	1.30	-2.01	-3.61	0.00	0.00	0.00	2.93
5	13-CORR						
	0.00	6.324E-01	2.664E-01	0.00	0.00	0.00	-5.510E-01
	3.3E-01	9.412E-01	2.633E-01	0.00	0.00	0.00	-6.374E-01
	6.5E-01	1.25	2.602E-01	0.00	0.00	0.00	-7.226E-01
	9.8E-01	1.56	2.571E-01	0.00	0.00	0.00	-8.068E-01
	1.30	1.87	2.540E-01	0.00	0.00	0.00	-8.901E-01
5	14-CORR						
	0.00	-2.10	-3.73	0.00	0.00	0.00	-1.02
	3.3E-01	-2.09	-3.73	0.00	0.00	0.00	1.982E-01
	6.5E-01	-2.07	-3.73	0.00	0.00	0.00	1.41
	9.8E-01	-2.06	-3.73	0.00	0.00	0.00	2.63
	1.30	-2.05	-3.73	0.00	0.00	0.00	3.85
6	1-PP						
	0.00	-1.275E-01	-2.50	0.00	0.00	0.00	-3.05
	3.7E-01	-9.058E-02	-2.03	0.00	0.00	0.00	-2.22
	7.4E-01	-5.752E-02	-1.62	0.00	0.00	0.00	-1.55
	1.11	-2.831E-02	-1.25	0.00	0.00	0.00	-1.02
	1.48	-2.951E-03	-9.313E-01	0.00	0.00	0.00	-6.180E-01
6	2-RCP						
	0.00	5.381E-01	-3.39	0.00	0.00	0.00	-4.27
	3.7E-01	5.750E-01	-2.93	0.00	0.00	0.00	-3.10
	7.4E-01	6.118E-01	-2.47	0.00	0.00	0.00	-2.10
	1.11	6.487E-01	-2.00	0.00	0.00	0.00	-1.28
	1.48	6.849E-01	-1.55	0.00	0.00	0.00	-6.221E-01
6	3-IAPF1						
	0.00	-3.02	-12.49	0.00	0.00	0.00	-9.72
	3.7E-01	-2.80	-9.81	0.00	0.00	0.00	-5.63
	7.4E-01	-2.65	-7.90	0.00	0.00	0.00	-2.25
	1.11	-2.42	-5.07	0.00	0.00	0.00	1.460E-01
	1.48	-2.20	-2.29	0.00	0.00	0.00	1.50
6	4-IAPF2						
	0.00	-3.01	-12.90	0.00	0.00	0.00	-8.50
	3.7E-01	-2.79	-10.07	0.00	0.00	0.00	-4.26
	7.4E-01	-2.62	-7.91	0.00	0.00	0.00	-1.04
	1.11	-2.42	-5.48	0.00	0.00	0.00	1.50
	1.48	-2.20	-2.70	0.00	0.00	0.00	3.00
6	5-IAPF3						
	0.00	-1.11	-1.30	0.00	0.00	0.00	-2.77
	3.7E-01	-1.11	-1.30	0.00	0.00	0.00	-2.29
	7.4E-01	-1.11	-1.30	0.00	0.00	0.00	-1.81
	1.11	-1.11	-1.30	0.00	0.00	0.00	-1.34
	1.48	-1.11	-1.30	0.00	0.00	0.00	-8.566E-01
6	6-IAPF4						
	0.00	-2.932E-01	-4.271E-01	0.00	0.00	0.00	-8.515E-01
	3.7E-01	-2.932E-01	-4.271E-01	0.00	0.00	0.00	-6.938E-01
	7.4E-01	-2.932E-01	-4.271E-01	0.00	0.00	0.00	-5.362E-01
	1.11	-2.932E-01	-4.271E-01	0.00	0.00	0.00	-3.785E-01
	1.48	-2.932E-01	-4.271E-01	0.00	0.00	0.00	-2.209E-01
6	7-IAPF5						
	0.00	-1.90	-2.20	0.00	0.00	0.00	-4.68
	3.7E-01	-1.90	-2.20	0.00	0.00	0.00	-3.30
	7.4E-01	-1.90	-2.20	0.00	0.00	0.00	-1.95
	1.11	-1.90	-2.20	0.00	0.00	0.00	-6.23
	1.48	-1.90	-2.20	0.00	0.00	0.00	-1.42
6	8-PASE1						
	0.00	2.974E-01	2.712E-01	0.00	0.00	0.00	6.487E-01
	3.7E-01	2.974E-01	2.712E-01	0.00	0.00	0.00	5.486E-01
	7.4E-01	2.974E-01	2.712E-01	0.00	0.00	0.00	4.485E-01
	1.11	2.974E-01	2.712E-01	0.00	0.00	0.00	3.484E-01
	1.48	2.974E-01	2.712E-01	0.00	0.00	0.00	2.484E-01
6	9-PASE2						
	0.00	2.507E-01	-3.148E-01	0.00	0.00	0.00	-9.827E-01
	3.7E-01	2.507E-01	-3.148E-01	0.00	0.00	0.00	-8.665E-01
	7.4E-01	2.507E-01	-3.148E-01	0.00	0.00	0.00	-7.503E-01
	1.11	2.507E-01	-3.148E-01	0.00	0.00	0.00	-6.341E-01
	1.48	2.507E-01	-3.148E-01	0.00	0.00	0.00	-5.179E-01
6	10-L-INF						
	0.00	-5.459E-02	1.347E-03	0.00	0.00	0.00	-2.967E-03
	3.7E-01	-5.459E-02	1.347E-03	0.00	0.00	0.00	-9.462E-03
	7.4E-01	-5.459E-02	1.347E-03	0.00	0.00	0.00	-1.107E-02
	1.11	-5.459E-02	1.347E-03	0.00	0.00	0.00	-1.267E-02
	1.48	-5.459E-02	1.347E-03	0.00	0.00	0.00	-1.428E-02
6	11-DESC1						
	0.00	1.47	1.34	0.00	0.00	0.00	3.10
	3.7E-01	1.47	1.34	0.00	0.00	0.00	2.71
	7.4E-01	1.47	1.34	0.00	0.00	0.00	2.31
	1.11	1.47	1.34	0.00	0.00	0.00	1.92
	1.48	1.47	1.34	0.00	0.00	0.00	1.52
6	12-DESC2						
	0.00	-2.22	-3.03	0.00	0.00	0.00	-5.68

	3.7E-01	-2.22	-3.03	0.00	0.00	0.00	-4.56
	7.4E-01	-2.22	-3.03	0.00	0.00	0.00	-3.44
	1.11	-2.22	-3.03	0.00	0.00	0.00	-2.33
	1.48	-2.22	-3.03	0.00	0.00	0.00	-1.21
6	13-DESC3						
	0.00	2.02	1.84	0.00	0.00	0.00	4.39
	3.7E-01	2.02	1.84	0.00	0.00	0.00	3.72
	7.4E-01	2.02	1.84	0.00	0.00	0.00	3.04
	1.11	2.02	1.84	0.00	0.00	0.00	2.36
	1.48	2.02	1.84	0.00	0.00	0.00	1.68
6	14-DESC4						
	0.00	-2.30	-3.51	0.00	0.00	0.00	-6.11
	3.7E-01	-2.30	-3.51	0.00	0.00	0.00	-4.81
	7.4E-01	-2.30	-3.51	0.00	0.00	0.00	-3.52
	1.11	-2.30	-3.51	0.00	0.00	0.00	-2.22
	1.48	-2.30	-3.51	0.00	0.00	0.00	-9.256E-01
6	1-CORR						
	0.00	-1.275E-01	-2.50	0.00	0.00	0.00	-3.95
	3.7E-01	-9.058E-02	-2.03	0.00	0.00	0.00	-2.92
	7.4E-01	-5.752E-02	-1.62	0.00	0.00	0.00	-1.95
	1.11	-2.831E-02	-1.25	0.00	0.00	0.00	-1.02
	1.48	-2.951E-03	-9.313E-01	0.00	0.00	0.00	-6.180E-01
6	2-CORR						
	0.00	5.381E-01	-3.39	0.00	0.00	0.00	-4.27
	3.7E-01	5.750E-01	-2.93	0.00	0.00	0.00	-3.10
	7.4E-01	6.118E-01	-2.47	0.00	0.00	0.00	-2.10
	1.11	6.487E-01	-2.00	0.00	0.00	0.00	-1.18
	1.48	6.849E-01	-1.55	0.00	0.00	0.00	-6.221E-01
6	3-CORR						
	0.00	-3.02	-12.49	0.00	0.00	0.00	-9.72
	3.7E-01	-2.80	-9.81	0.00	0.00	0.00	-5.63
	7.4E-01	-2.65	-7.90	0.00	0.00	0.00	-2.15
	1.11	-2.42	-5.07	0.00	0.00	0.00	1.460E-01
	1.48	-2.20	-2.29	0.00	0.00	0.00	1.56
6	4-CORR						
	0.00	-3.93	-13.40	0.00	0.00	0.00	-10.01
	3.7E-01	-3.59	-10.58	0.00	0.00	0.00	-5.58
	7.4E-01	-3.30	-8.43	0.00	0.00	0.00	-2.17
	1.11	-2.99	-6.01	0.00	0.00	0.00	5.610E-01
	1.48	-2.66	-3.24	0.00	0.00	0.00	2.26
6	5-CORR						
	0.00	-4.71	-3.26	0.00	0.00	0.00	-8.68
	3.7E-01	-4.26	-3.29	0.00	0.00	0.00	-7.47
	7.4E-01	-3.80	-3.33	0.00	0.00	0.00	-6.25
	1.11	-3.35	-3.36	0.00	0.00	0.00	-5.01
	1.48	-2.89	-3.40	0.00	0.00	0.00	-3.76
6	6-CORR						
	0.00	-4.35	-2.63	0.00	0.00	0.00	-7.91
	3.7E-01	-3.84	-2.68	0.00	0.00	0.00	-6.53
	7.4E-01	-3.32	-2.72	0.00	0.00	0.00	-5.13
	1.11	-2.81	-2.76	0.00	0.00	0.00	-4.52
	1.48	-2.30	-2.80	0.00	0.00	0.00	-3.50
6	7-CORR						
	0.00	-5.04	-3.91	0.00	0.00	0.00	-9.82
	3.7E-01	-4.64	-3.94	0.00	0.00	0.00	-8.37
	7.4E-01	-4.25	-3.97	0.00	0.00	0.00	-6.91
	1.11	-3.85	-4.01	0.00	0.00	0.00	-5.44
	1.48	-3.46	-4.04	0.00	0.00	0.00	-3.95
6	8-CORR						
	0.00	8.802E-03	1.141E-01	0.00	0.00	0.00	1.750E-01
	3.7E-01	4.523E-02	1.112E-01	0.00	0.00	0.00	1.535E-01
	7.4E-01	8.166E-02	1.083E-01	0.00	0.00	0.00	1.296E-01
	1.11	1.181E-01	1.054E-01	0.00	0.00	0.00	5.353E-02
	1.48	1.545E-01	1.025E-01	0.00	0.00	0.00	1.516E-02
6	9-CORR						
	0.00	5.392E-01	-1.577E-01	0.00	0.00	0.00	-5.091E-01
	3.7E-01	5.028E-01	-1.548E-01	0.00	0.00	0.00	-4.514E-01
	7.4E-01	4.664E-01	-1.519E-01	0.00	0.00	0.00	-3.948E-01
	1.11	4.300E-01	-1.490E-01	0.00	0.00	0.00	-3.392E-01
	1.48	3.935E-01	-1.461E-01	0.00	0.00	0.00	-2.843E-01
6	10-CORR						
	0.00	-5.459E-02	4.347E-03	0.00	0.00	0.00	-7.857E-03
	3.7E-01	-5.459E-02	4.347E-03	0.00	0.00	0.00	-9.462E-03
	7.4E-01	-5.459E-02	4.347E-03	0.00	0.00	0.00	-1.107E-02
	1.11	-5.459E-02	4.347E-03	0.00	0.00	0.00	-1.267E-02
	1.48	-5.459E-02	4.347E-03	0.00	0.00	0.00	-1.428E-02
6	11-CORR						
	0.00	-1.43	-2.390E-01	0.00	0.00	0.00	-1.56
	3.7E-01	-1.06	-2.681E-01	0.00	0.00	0.00	-1.46
	7.4E-01	-6.940E-01	-2.973E-01	0.00	0.00	0.00	-1.36
	1.11	-3.279E-01	-3.265E-01	0.00	0.00	0.00	-1.24
	1.48	3.817E-02	-3.556E-01	0.00	0.00	0.00	-1.12
6	12-CORR						
	0.00	-2.92	-3.41	0.00	0.00	0.00	-6.82
	3.7E-01	-2.83	-3.41	0.00	0.00	0.00	-5.56
	7.4E-01	-2.74	-3.42	0.00	0.00	0.00	-4.30
	1.11	-2.65	-3.43	0.00	0.00	0.00	-3.04
	1.48	-2.57	-3.43	0.00	0.00	0.00	-1.77
6	13-CORR						
	0.00	-7.460E-01	3.330E-01	0.00	0.00	0.00	-1.414E-01
	3.7E-01	-3.971E-01	3.052E-01	0.00	0.00	0.00	-2.592E-01
	7.4E-01	-4.833E-02	2.774E-01	0.00	0.00	0.00	-3.667E-01
	1.11	3.005E-01	2.497E-01	0.00	0.00	0.00	-4.640E-01
	1.48	6.493E-01	2.219E-01	0.00	0.00	0.00	-5.510E-01
6	14-CORR						
	0.00	-2.41	-3.57	0.00	0.00	0.00	-6.29
	3.7E-01	-2.40	-3.57	0.00	0.00	0.00	-4.98
	7.4E-01	-2.38	-3.57	0.00	0.00	0.00	-3.66
	1.11	-2.37	-3.58	0.00	0.00	0.00	-2.34
	1.48	-2.35	-3.58	0.00	0.00	0.00	-1.02
7	1-PP						
	0.00	-4.837E-02	1.12	0.00	0.00	0.00	-1.16
	4.9E-01	-6.355E-02	1.47	0.00	0.00	0.00	-1.80
	9.9E-01	-8.245E-02	1.91	0.00	0.00	0.00	-2.63
	1.48	-1.051E-01	2.44	0.00	0.00	0.00	-3.70
	1.98	-1.314E-01	3.05	0.00	0.00	0.00	-5.06
7	2-RCP						
	0.00	-6.533E-02	1.52	0.00	0.00	0.00	-1.58
	4.9E-01	-8.772E-02	2.04	0.00	0.00	0.00	-2.46
	9.9E-01	-1.122E-01	2.60	0.00	0.00	0.00	-3.60
	1.48	-1.388E-01	3.22	0.00	0.00	0.00	-5.04
	1.98	-1.652E-01	3.83	0.00	0.00	0.00	-6.79
7	3-IAPF1						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	-1.504E-01	3.49	0.00	0.00	0.00	-7.935E-01
	1.98	-3.128E-01	7.26	0.00	0.00	0.00	-3.46
7	4-IAPF2						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	-5.114E-02	1.19	0.00	0.00	0.00	-9.170E-02
	1.98	-2.135E-01	4.96	0.00	0.00	0.00	-1.62
7	5-IAPF3						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	6-IAPF4						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	7-IAPF5						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	8-PASE1						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	9-PASE2						
	0.00	-2.669E-02	6.194E-01	0.00	0.00	0.00	-8.231E-01
	4.9E-01	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.13
	9.9E-01	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.44
	1.48	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.74

	1.98	-2.669E-02	6.194E-01	0.00	0.00	0.00	-2.05
7	10-L-INF						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	11-DESC1						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	12-DESC2						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	13-DESC3						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	14-DESC4						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	1-CORR						
	0.00	-4.837E-02	1.12	0.00	0.00	0.00	-1.16
	4.9E-01	-6.355E-02	1.47	0.00	0.00	0.00	-1.80
	9.9E-01	-8.245E-02	1.91	0.00	0.00	0.00	-2.63
	1.48	-1.051E-01	2.44	0.00	0.00	0.00	-3.70
	1.98	-1.314E-01	3.05	0.00	0.00	0.00	-5.06
7	2-CORR						
	0.00	-6.533E-02	1.52	0.00	0.00	0.00	-1.58
	4.9E-01	-8.772E-02	2.04	0.00	0.00	0.00	-2.46
	9.9E-01	-1.122E-01	2.60	0.00	0.00	0.00	-3.60
	1.48	-1.388E-01	3.22	0.00	0.00	0.00	-5.04
	1.98	-1.652E-01	3.83	0.00	0.00	0.00	-6.79
7	3-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	-1.504E-01	3.49	0.00	0.00	0.00	-7.965E-01
	1.98	-3.128E-01	7.26	0.00	0.00	0.00	-3.46
7	4-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	-5.114E-02	1.19	0.00	0.00	0.00	-6.17 E-
	1.98	-2.135E-01	4.96	0.00	0.00	0.00	-1.02
7	5-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	6-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	7-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	8-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	9-CORR						
	0.00	-2.669E-02	6.194E-01	0.00	0.00	0.00	-8.231E-01
	4.9E-01	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.13
	9.9E-01	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.44
	1.48	-2.669E-02	6.194E-01	0.00	0.00	0.00	-1.74
	1.98	-2.669E-02	6.194E-01	0.00	0.00	0.00	-2.05
7	10-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	11-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	12-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	13-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
7	14-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	9.9E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.48	0.00	0.00	0.00	0.00	0.00	0.00
	1.98	0.00	0.00	0.00	0.00	0.00	0.00
8	1-PP						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	-5.180E-04	2.283E-01	0.00	0.00	0.00	-6.248E-02
	1.12	-1.116E-03	4.916E-01	0.00	0.00	0.00	-2.631E-01
	1.69	-1.793E-03	7.901E-01	0.00	0.00	0.00	-6.215E-01
	2.25	-2.550E-03	1.12	0.00	0.00	0.00	-1.16
8	2-RCF						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	-4.162E-04	1.834E-01	0.00	0.00	0.00	-4.986E-02
	1.12	-1.672E-03	7.368E-01	0.00	0.00	0.00	-2.85 E-01
	1.69	-2.808E-03	1.24	0.00	0.00	0.00	-8.059E-01
	2.25	-3.444E-03	1.52	0.00	0.00	0.00	-1.58
8	3-IAPF1						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	4-IAPF2						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	5-IAPF3						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	6-IAPF4						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	7-IAPF5						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	8-PASE1						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	9-PASE2						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	-2.971E-04	1.309E-01	0.00	0.00	0.00	-1.714E-02
	1.12	-9.346E-04	4.119E-01	0.00	0.00	0.00	-1.696E-01
	1.69	-1.407E-03	6.200E-01	0.00	0.00	0.00	-4.747E-01
	2.25	-1.407E-03	6.200E-01	0.00	0.00	0.00	-8.231E-01
8	10-L-INF						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	11-DESC1						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	12-DESC2						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	13-DESC3						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	14-DESC4						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	1-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	-5.180E-04	2.283E-01	0.00	0.00	0.00	-6.248E-02
	1.12	-1.116E-03	4.916E-01	0.00	0.00	0.00	-2.031E-01
	1.69	-1.793E-03	7.901E-01	0.00	0.00	0.00	-6.215E-01
	2.25	-2.550E-03	1.12	0.00	0.00	0.00	-1.16
8	2-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	-4.162E-04	1.834E-01	0.00	0.00	0.00	-4.986E-02
	1.12	-1.672E-03	7.368E-01	0.00	0.00	0.00	-1.85?E-01
	1.69	-2.808E-03	1.24	0.00	0.00	0.00	-8.059E-01
	2.25	-3.444E-03	1.52	0.00	0.00	0.00	-1.58
8	3-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	4-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	5-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	6-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	7-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	8-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	9-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	-2.971E-04	1.309E-01	0.00	0.00	0.00	-1.714E-02
	1.12	-9.346E-04	4.119E-01	0.00	0.00	0.00	-1.696E-01
	1.69	-1.407E-03	6.200E-01	0.00	0.00	0.00	-4.747E-01
	2.25	-1.407E-03	6.200E-01	0.00	0.00	0.00	-8.231E-01
8	10-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	11-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	12-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	13-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
8	14-CORR						
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.6E-01	0.00	0.00	0.00	0.00	0.00	0.00
	1.12	0.00	0.00	0.00	0.00	0.00	0.00
	1.69	0.00	0.00	0.00	0.00	0.00	0.00
	2.25	0.00	0.00	0.00	0.00	0.00	0.00
9	1-PP						
	0.00	-5.55	7.098E-02	0.00	0.00	0.00	2.01
	8.6E-01	-6.52	7.098E-02	0.00	0.00	0.00	1.95
	1.72	-7.48	7.098E-02	0.00	0.00	0.00	1.39
	2.57	-8.45	7.098E-02	0.00	0.00	0.00	1.32
	3.43	-9.41	7.098E-02	0.00	0.00	0.00	1.76
9	2-RCP						
	0.00	-7.18	8.058E-01	0.00	0.00	0.00	2.52
	8.6E-01	-7.18	8.058E-01	0.00	0.00	0.00	1.83
	1.72	-7.18	8.058E-01	0.00	0.00	0.00	1.14
	2.57	-7.18	8.058E-01	0.00	0.00	0.00	4.501E-01
	3.43	-7.18	8.058E-01	0.00	0.00	0.00	-2.41?E-01
9	3-IAPF1						
	0.00	-19.96	-2.01	0.00	0.00	0.00	-6.36
	8.6E-01	-19.96	-2.01	0.00	0.00	0.00	-4.53
	1.72	-19.96	-2.01	0.00	0.00	0.00	-2.80
	2.57	-19.96	-2.01	0.00	0.00	0.00	-1.07
	3.43	-19.96	-2.01	0.00	0.00	0.00	6.549E-01
9	4-IAPF2						
	0.00	-18.06	-1.98	0.00	0.00	0.00	-6.88
	8.6E-01	-18.06	-1.98	0.00	0.00	0.00	-5.18
	1.72	-18.06	-1.98	0.00	0.00	0.00	-3.48
	2.57	-18.06	-1.98	0.00	0.00	0.00	-1.78

	3.43	-18.06	-1.98	0.00	0.00	0.00	-8.408E-02
9	5-IAPF3						
	0.00	-1.38	-1.01	0.00	0.00	0.00	-2.77
	8.6E-01	-1.38	-1.01	0.00	0.00	0.00	-1.91
	1.72	-1.38	-1.01	0.00	0.00	0.00	-1.04
	2.57	-1.38	-1.01	0.00	0.00	0.00	-1.807E-01
	3.43	-1.38	-1.01	0.00	0.00	0.00	6.836E-01
9	6-IAPF4						
	0.00	-4.491E-01	-2.584E-01	0.00	0.00	0.00	-8.515E-01
	8.6E-01	-4.491E-01	-2.584E-01	0.00	0.00	0.00	-6.298E-01
	1.72	-4.491E-01	-2.584E-01	0.00	0.00	0.00	-4.081E-01
	2.57	-4.491E-01	-2.584E-01	0.00	0.00	0.00	-1.864E-01
	3.43	-4.491E-01	-2.584E-01	0.00	0.00	0.00	3.529E-02
9	7-IAPF5						
	0.00	-2.35	-1.72	0.00	0.00	0.00	-4.68
	8.6E-01	-2.35	-1.72	0.00	0.00	0.00	-3.20
	1.72	-2.35	-1.72	0.00	0.00	0.00	-1.72
	2.57	-2.35	-1.72	0.00	0.00	0.00	-2.446E-01
	3.43	-2.35	-1.72	0.00	0.00	0.00	1.23
9	8-PASE1						
	0.00	2.939E-01	2.749E-01	0.00	0.00	0.00	6.487E-01
	8.6E-01	2.939E-01	2.749E-01	0.00	0.00	0.00	4.128E-01
	1.72	2.939E-01	2.749E-01	0.00	0.00	0.00	1.769E-01
	2.57	2.939E-01	2.749E-01	0.00	0.00	0.00	-5.895E-02
	3.43	2.939E-01	2.749E-01	0.00	0.00	0.00	-2.948E-01
9	9-PASE2						
	0.00	-9.139E-01	2.749E-01	0.00	0.00	0.00	1.07
	8.6E-01	-9.139E-01	2.749E-01	0.00	0.00	0.00	8.305E-01
	1.72	-9.139E-01	2.749E-01	0.00	0.00	0.00	5.946E-01
	2.57	-9.139E-01	2.749E-01	0.00	0.00	0.00	3.588E-01
	3.43	-9.139E-01	2.749E-01	0.00	0.00	0.00	1.229E-01
9	10-L-INF						
	0.00	0.00	-5.477E-02	0.00	0.00	0.00	-7.857E-03
	8.6E-01	0.00	-5.477E-02	0.00	0.00	0.00	3.914E-02
	1.72	0.00	-5.477E-02	0.00	0.00	0.00	8.613E-02
	2.57	0.00	-5.477E-02	0.00	0.00	0.00	1.331E-01
	3.43	0.00	-5.477E-02	0.00	0.00	0.00	1.801E-01
9	11-DESC1						
	0.00	1.45	1.36	0.00	0.00	0.00	3.20
	8.6E-01	1.45	1.36	0.00	0.00	0.00	2.03
	1.72	1.45	1.36	0.00	0.00	0.00	8.646E-01
	2.57	1.45	1.36	0.00	0.00	0.00	-3.048E-01
	3.43	1.45	1.36	0.00	0.00	0.00	-1.47
9	12-DESC2						
	0.00	-3.19	-1.97	0.00	0.00	0.00	-5.68
	8.6E-01	-3.19	-1.97	0.00	0.00	0.00	-4.49
	1.72	-3.19	-1.97	0.00	0.00	0.00	-3.29
	2.57	-3.19	-1.97	0.00	0.00	0.00	-5.963E-01
	3.43	-3.19	-1.97	0.00	0.00	0.00	1.10
9	13-DESC3						
	0.00	1.99	1.86	0.00	0.00	0.00	4.39
	8.6E-01	1.99	1.86	0.00	0.00	0.00	2.79
	1.72	1.99	1.86	0.00	0.00	0.00	1.19
	2.57	1.99	1.86	0.00	0.00	0.00	-4.068E-01
	3.43	1.99	1.86	0.00	0.00	0.00	-2.01
9	14-DESC4						
	0.00	-3.68	-2.01	0.00	0.00	0.00	-6.11
	8.6E-01	-3.68	-2.01	0.00	0.00	0.00	-4.38
	1.72	-3.68	-2.01	0.00	0.00	0.00	-2.66
	2.57	-3.68	-2.01	0.00	0.00	0.00	-9.303E-01
	3.43	-3.68	-2.01	0.00	0.00	0.00	7.956E-01
9	1-CORR						
	0.00	-5.55	7.098E-02	0.00	0.00	0.00	2.01
	8.6E-01	-3.41	7.098E-02	0.00	0.00	0.00	1.95
	1.72	-1.27	7.098E-02	0.00	0.00	0.00	1.89
	2.57	8.639E-01	7.098E-02	0.00	0.00	0.00	1.82
	3.43	3.00	7.098E-02	0.00	0.00	0.00	1.76
9	2-CORR						
	0.00	-7.18	8.058E-01	0.00	0.00	0.00	2.62
	8.6E-01	-5.38	8.058E-01	0.00	0.00	0.00	1.93
	1.72	-3.59	8.058E-01	0.00	0.00	0.00	1.14
	2.57	-1.79	8.058E-01	0.00	0.00	0.00	4.501E-01
	3.43	1.932E-03	8.058E-01	0.00	0.00	0.00	-2.412E-01
9	3-CORR						
	0.00	-19.96	-2.01	0.00	0.00	0.00	-6.26
	8.6E-01	-14.97	-2.01	0.00	0.00	0.00	-4.53
	1.72	-9.98	-2.01	0.00	0.00	0.00	-2.80
	2.57	-4.99	-2.01	0.00	0.00	0.00	-1.07
	3.43	2.692E-03	-2.01	0.00	0.00	0.00	6.549E-01
9	4-CORR						
	0.00	-18.63	-2.86	0.00	0.00	0.00	-8.39
	8.6E-01	-13.91	-2.86	0.00	0.00	0.00	-5.94
	1.72	-9.19	-2.86	0.00	0.00	0.00	-3.49
	2.57	-4.47	-2.86	0.00	0.00	0.00	-1.04
	3.43	2.497E-01	-2.86	0.00	0.00	0.00	1.41
9	5-CORR						
	0.00	-3.62	-4.44	0.00	0.00	0.00	-8.68
	8.6E-01	-2.18	-4.44	0.00	0.00	0.00	-4.87
	1.72	-7.474E-01	-4.44	0.00	0.00	0.00	-1.06
	2.57	6.890E-01	-4.44	0.00	0.00	0.00	2.75
	3.43	2.13	-4.44	0.00	0.00	0.00	6.55
9	6-CORR						
	0.00	-2.97	-4.12	0.00	0.00	0.00	-7.51
	8.6E-01	-1.67	-4.12	0.00	0.00	0.00	-4.87
	1.72	-3.697E-01	-4.12	0.00	0.00	0.00	-4.277E-01
	2.57	9.311E-01	-4.12	0.00	0.00	0.00	3.11
	3.43	2.23	-4.12	0.00	0.00	0.00	6.65
9	7-CORR						
	0.00	-4.30	-4.71	0.00	0.00	0.00	-9.82
	8.6E-01	-2.73	-4.71	0.00	0.00	0.00	-6.75
	1.72	-1.16	-4.71	0.00	0.00	0.00	-1.74
	2.57	4.138E-01	-4.71	0.00	0.00	0.00	2.31
	3.43	1.98	-4.71	0.00	0.00	0.00	6.35
9	8-CORR						
	0.00	1.144E-01	-2.818E-04	0.00	0.00	0.00	1.750E-01
	8.6E-01	1.067E-01	-2.818E-04	0.00	0.00	0.00	1.753E-01
	1.72	9.898E-02	-2.818E-04	0.00	0.00	0.00	1.755E-01
	2.57	9.126E-02	-2.818E-04	0.00	0.00	0.00	1.758E-01
	3.43	8.353E-02	-2.818E-04	0.00	0.00	0.00	1.760E-01
9	9-CORR						
	0.00	-7.344E-01	5.501E-01	0.00	0.00	0.00	1.54
	8.6E-01	-5.723E-01	5.501E-01	0.00	0.00	0.00	1.07
	1.72	-4.101E-01	5.501E-01	0.00	0.00	0.00	5.960E-01
	2.57	-2.479E-01	5.501E-01	0.00	0.00	0.00	1.241E-01
	3.43	-8.574E-02	5.501E-01	0.00	0.00	0.00	-3.479E-01
9	10-CORR						
	0.00	0.00	-5.477E-02	0.00	0.00	0.00	-7.857E-03
	8.6E-01	6.950E-02	-5.477E-02	0.00	0.00	0.00	3.914E-02
	1.72	1.390E-01	-5.477E-02	0.00	0.00	0.00	8.613E-02
	2.57	2.085E-01	-5.477E-02	0.00	0.00	0.00	1.331E-01
	3.43	2.780E-01	-5.477E-02	0.00	0.00	0.00	1.801E-01
9	11-CORR						
	0.00	-3.515E-01	-1.40	0.00	0.00	0.00	-1.56
	8.6E-01	4.496E-02	-1.40	0.00	0.00	0.00	-1.531E-01
	1.72	4.414E-01	-1.40	0.00	0.00	0.00	8.960E-01
	2.57	8.378E-01	-1.40	0.00	0.00	0.00	2.05
	3.43	1.23	-1.40	0.00	0.00	0.00	3.26
9	12-CORR						
	0.00	-3.63	-2.64	0.00	0.00	0.00	-6.82
	8.6E-01	-2.58	-2.64	0.00	0.00	0.00	-4.56
	1.72	-1.54	-2.64	0.00	0.00	0.00	-2.29
	2.57	-4.915E-01	-2.64	0.00	0.00	0.00	-2.969E-02
	3.43	5.536E-01	-2.64	0.00	0.00	0.00	2.23
9	13-CORR						
	0.00	2.727E-01	-7.700E-01	0.00	0.00	0.00	-1.414E-01
	8.6E-01	4.598E-01	-7.700E-01	0.00	0.00	0.00	5.193E-01
	1.72	6.468E-01	-7.700E-01	0.00	0.00	0.00	1.19
	2.57	8.339E-01	-7.700E-01	0.00	0.00	0.00	1.84
	3.43	1.02	-7.700E-01	0.00	0.00	0.00	2.50
9	14-CORR						
	0.00	-3.75	-2.12	0.00	0.00	0.00	-6.29
	8.6E-01	-2.79	-2.12	0.00	0.00	0.00	-4.48
	1.72	-1.82	-2.12	0.00	0.00	0.00	-2.66
	2.57	-8.534E-01	-2.12	0.00	0.00	0.00	-8.378E-01
	3.43	1.128E-01	-2.12	0.00	0.00	0.00	9.811E-01
10	1-PP						
	0.00	4.247E-01	-2.98	0.00	0.00	0.00	-1.76
	2.1E-01	3.822E-01	-2.72	0.00	0.00	0.00	-1.17
	4.2E-01	3.456E-01	-2.51	0.00	0.00	0.00	-6.217E-01
	6.3E-01	3.151E-01	-2.32	0.00	0.00	0.00	-1.176E-01
	8.4E-01	2.906E-01	-2.18	0.00	0.00	0.00	3.521E-01
10	2-RCP						
	0.00	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.412E-01

	2.1E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.689E-01
	4.2E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.966E-01
	6.3E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	3.243E-01
	8.4E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	3.520E-01
10	3-IAPF1						
	0.00	1.99	3.312E-01	0.00	0.00	0.00	-6.549E-01
	2.1E-01	1.99	3.312E-01	0.00	0.00	0.00	-7.241E-01
	4.2E-01	1.99	3.312E-01	0.00	0.00	0.00	-7.934E-01
	6.3E-01	1.99	3.312E-01	0.00	0.00	0.00	-8.626E-01
	8.4E-01	1.99	3.312E-01	0.00	0.00	0.00	-9.319E-01
10	4-IAPF2						
	0.00	1.91	5.847E-01	0.00	0.00	0.00	8.408E-02
	2.1E-01	1.91	5.847E-01	0.00	0.00	0.00	-3.817E-02
	4.2E-01	1.91	5.847E-01	0.00	0.00	0.00	-1.604E-01
	6.3E-01	1.91	5.847E-01	0.00	0.00	0.00	-2.827E-01
	8.4E-01	1.91	5.847E-01	0.00	0.00	0.00	-4.049E-01
10	5-IAPF3						
	0.00	1.01	3.900E-02	0.00	0.00	0.00	-6.836E-01
	2.1E-01	1.01	3.900E-02	0.00	0.00	0.00	-6.917E-01
	4.2E-01	1.01	3.900E-02	0.00	0.00	0.00	-6.998E-01
	6.3E-01	1.01	3.900E-02	0.00	0.00	0.00	-7.080E-01
	8.4E-01	1.01	3.900E-02	0.00	0.00	0.00	-7.162E-01
10	6-IAPF4						
	0.00	2.517E-01	6.140E-02	0.00	0.00	0.00	-3.529E-02
	2.1E-01	2.517E-01	6.140E-02	0.00	0.00	0.00	-4.813E-02
	4.2E-01	2.517E-01	6.140E-02	0.00	0.00	0.00	-6.097E-02
	6.3E-01	2.517E-01	6.140E-02	0.00	0.00	0.00	-7.380E-02
	8.4E-01	2.517E-01	6.140E-02	0.00	0.00	0.00	-8.664E-02
10	7-IAPF5						
	0.00	1.74	4.274E-02	0.00	0.00	0.00	-1.23
	2.1E-01	1.74	4.274E-02	0.00	0.00	0.00	-1.24
	4.2E-01	1.74	4.274E-02	0.00	0.00	0.00	-1.25
	6.3E-01	1.74	4.274E-02	0.00	0.00	0.00	-1.26
	8.4E-01	1.74	4.274E-02	0.00	0.00	0.00	-1.27
10	8-PASE1						
	0.00	-2.835E-01	2.905E-02	0.00	0.00	0.00	2.948E-01
	2.1E-01	-2.835E-01	2.905E-02	0.00	0.00	0.00	2.887E-01
	4.2E-01	-2.835E-01	2.905E-02	0.00	0.00	0.00	2.827E-01
	6.3E-01	-2.835E-01	2.905E-02	0.00	0.00	0.00	2.766E-01
	8.4E-01	-2.835E-01	2.905E-02	0.00	0.00	0.00	2.705E-01
10	9-PASE2						
	0.00	-2.588E-01	-1.194E-01	0.00	0.00	0.00	-1.229E-01
	2.1E-01	-2.588E-01	-1.194E-01	0.00	0.00	0.00	-9.793E-02
	4.2E-01	-2.588E-01	-1.194E-01	0.00	0.00	0.00	-7.296E-02
	6.3E-01	-2.588E-01	-1.194E-01	0.00	0.00	0.00	-4.798E-02
	8.4E-01	-2.588E-01	-1.194E-01	0.00	0.00	0.00	-2.301E-02
10	10-L-INF						
	0.00	9.983E-02	-2.658E-01	0.00	0.00	0.00	-1.801E-01
	2.1E-01	9.639E-02	-2.452E-01	0.00	0.00	0.00	-1.267E-01
	4.2E-01	9.295E-02	-2.246E-01	0.00	0.00	0.00	-7.756E-02
	6.3E-01	8.952E-02	-2.040E-01	0.00	0.00	0.00	-3.276E-02
	8.4E-01	8.608E-02	-1.833E-01	0.00	0.00	0.00	7.733E-03
10	11-DESC1						
	0.00	-1.41	1.485E-01	0.00	0.00	0.00	1.47
	2.1E-01	-1.41	1.485E-01	0.00	0.00	0.00	1.44
	4.2E-01	-1.41	1.485E-01	0.00	0.00	0.00	1.41
	6.3E-01	-1.41	1.485E-01	0.00	0.00	0.00	1.38
	8.4E-01	-1.41	1.485E-01	0.00	0.00	0.00	1.35
10	12-DESC2						
	0.00	1.97	1.619E-01	0.00	0.00	0.00	-1.10
	2.1E-01	1.97	1.619E-01	0.00	0.00	0.00	-1.13
	4.2E-01	1.97	1.619E-01	0.00	0.00	0.00	-1.16
	6.3E-01	1.97	1.619E-01	0.00	0.00	0.00	-1.20
	8.4E-01	1.97	1.619E-01	0.00	0.00	0.00	-1.23
10	13-DESC3						
	0.00	-1.92	1.995E-01	0.00	0.00	0.00	2.01
	2.1E-01	-1.92	1.995E-01	0.00	0.00	0.00	1.97
	4.2E-01	-1.92	1.995E-01	0.00	0.00	0.00	1.92
	6.3E-01	-1.92	1.995E-01	0.00	0.00	0.00	1.88
	8.4E-01	-1.92	1.995E-01	0.00	0.00	0.00	1.84
10	14-DESC4						
	0.00	1.99	2.810E-01	0.00	0.00	0.00	-7.956E-01
	2.1E-01	1.99	2.810E-01	0.00	0.00	0.00	-8.543E-01
	4.2E-01	1.99	2.810E-01	0.00	0.00	0.00	-9.131E-01
	6.3E-01	1.99	2.810E-01	0.00	0.00	0.00	-9.719E-01
	8.4E-01	1.99	2.810E-01	0.00	0.00	0.00	-1.03
10	1-CORR						
	0.00	4.247E-01	-2.98	0.00	0.00	0.00	-1.76
	2.1E-01	3.822E-01	-2.72	0.00	0.00	0.00	-1.17
	4.2E-01	3.456E-01	-2.51	0.00	0.00	0.00	-6.317E-01
	6.3E-01	3.151E-01	-2.32	0.00	0.00	0.00	-1.176E-01
	8.4E-01	2.906E-01	-2.18	0.00	0.00	0.00	3.521E-01
10	2-CORR						
	0.00	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.412E-01
	2.1E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.689E-01
	4.2E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.966E-01
	6.3E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	3.243E-01
	8.4E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	3.520E-01
10	3-CORR						
	0.00	1.99	3.312E-01	0.00	0.00	0.00	-6.549E-01
	2.1E-01	1.99	3.312E-01	0.00	0.00	0.00	-7.241E-01
	4.2E-01	1.99	3.312E-01	0.00	0.00	0.00	-7.934E-01
	6.3E-01	1.99	3.312E-01	0.00	0.00	0.00	-8.626E-01
	8.4E-01	1.99	3.312E-01	0.00	0.00	0.00	-9.319E-01
10	4-CORR						
	0.00	2.87	1.603E-01	0.00	0.00	0.00	-1.41
	2.1E-01	2.81	1.494E-01	0.00	0.00	0.00	-1.45
	4.2E-01	2.74	1.386E-01	0.00	0.00	0.00	-1.48
	6.3E-01	2.68	1.278E-01	0.00	0.00	0.00	-1.50
	8.4E-01	2.61	1.169E-01	0.00	0.00	0.00	-1.53
10	5-CORR						
	0.00	4.79	-1.62	0.00	0.00	0.00	-6.55
	2.1E-01	4.53	-1.67	0.00	0.00	0.00	-6.21
	4.2E-01	4.28	-1.71	0.00	0.00	0.00	-5.86
	6.3E-01	4.02	-1.75	0.00	0.00	0.00	-5.49
	8.4E-01	3.77	-1.79	0.00	0.00	0.00	-5.12
10	6-CORR						
	0.00	4.50	-1.81	0.00	0.00	0.00	-6.65
	2.1E-01	4.22	-1.86	0.00	0.00	0.00	-6.27
	4.2E-01	3.93	-1.91	0.00	0.00	0.00	-5.87
	6.3E-01	3.64	-1.96	0.00	0.00	0.00	-5.47
	8.4E-01	3.35	-2.00	0.00	0.00	0.00	-5.05
10	7-CORR						
	0.00	5.03	-1.41	0.00	0.00	0.00	-6.35
	2.1E-01	4.80	-1.44	0.00	0.00	0.00	-6.05
	4.2E-01	4.58	-1.48	0.00	0.00	0.00	-5.75
	6.3E-01	4.36	-1.52	0.00	0.00	0.00	-5.43
	8.4E-01	4.14	-1.55	0.00	0.00	0.00	-5.11
10	8-CORR						
	0.00	1.901E-02	-1.043E-01	0.00	0.00	0.00	-1.760E-01
	2.1E-01	-1.408E-03	-1.077E-01	0.00	0.00	0.00	-1.538E-01
	4.2E-01	-2.183E-02	-1.111E-01	0.00	0.00	0.00	-1.316E-01
	6.3E-01	-4.225E-02	-1.145E-01	0.00	0.00	0.00	-1.074E-01
	8.4E-01	-6.266E-02	-1.179E-01	0.00	0.00	0.00	-8.305E-02
10	9-CORR						
	0.00	-5.613E-01	1.395E-02	0.00	0.00	0.00	3.479E-01
	2.1E-01	-5.409E-01	1.735E-02	0.00	0.00	0.00	3.447E-01
	4.2E-01	-5.205E-01	2.076E-02	0.00	0.00	0.00	3.400E-01
	6.3E-01	-5.001E-01	2.416E-02	0.00	0.00	0.00	3.368E-01
	8.4E-01	-4.796E-01	2.756E-02	0.00	0.00	0.00	3.306E-01
10	10-CORR						
	0.00	9.983E-02	-2.658E-01	0.00	0.00	0.00	-1.801E-01
	2.1E-01	9.639E-02	-2.452E-01	0.00	0.00	0.00	-1.267E-01
	4.2E-01	9.295E-02	-2.246E-01	0.00	0.00	0.00	-7.756E-02
	6.3E-01	8.952E-02	-2.040E-01	0.00	0.00	0.00	-3.276E-02
	8.4E-01	8.608E-02	-1.833E-01	0.00	0.00	0.00	7.733E-03
10	11-CORR						
	0.00	1.63	-1.19	0.00	0.00	0.00	-1.20
	2.1E-01	1.43	-1.23	0.00	0.00	0.00	-1.01
	4.2E-01	1.22	-1.26	0.00	0.00	0.00	-2.75
	6.3E-01	1.02	-1.29	0.00	0.00	0.00	-2.48
	8.4E-01	8.134E-01	-1.33	0.00	0.00	0.00	-2.20
10	12-CORR						
	0.00	2.70	-1.601E-01	0.00	0.00	0.00	-2.23
	2.1E-01	2.66	-1.683E-01	0.00	0.00	0.00	-2.20
	4.2E-01	2.61	-1.765E-01	0.00	0.00	0.00	-2.16
	6.3E-01	2.56	-1.847E-01	0.00	0.00	0.00	-2.13
	8.4E-01	2.51	-1.930E-01	0.00	0.00	0.00	-2.09
10	13-CORR						
	0.00	9.731E-01	-1.08	0.00	0.00	0.00	-2.50
	2.1E-01	7.776E-01	-1.11	0.00	0.00	0.00	-2.27
	4.2E-01	5.820E-01	-1.14	0.00	0.00	0.00	-2.04
	6.3E-01	3.865E-01	-1.18	0.00	0.00	0.00	-1.79
	8.4E-01	1.910E-01	-1.21	0.00	0.00	0.00	-1.55

10	14-CORR						
	0.00	2.11	2.285E-01	0.00	0.00	0.00	-9.811E-01
	2.1E-01	2.10	2.271E-01	0.00	0.00	0.00	-1.03
	4.2E-01	2.10	2.258E-01	0.00	0.00	0.00	-1.08
	6.3E-01	2.09	2.244E-01	0.00	0.00	0.00	-1.12
	8.4E-01	2.08	2.231E-01	0.00	0.00	0.00	-1.17
11	1-PP						
	0.00	-7.098E-02	-2.19	0.00	0.00	0.00	3.521E-01
	4.9E-01	-7.098E-02	-1.65	0.00	0.00	0.00	1.29
	9.8E-01	-7.098E-02	-1.10	0.00	0.00	0.00	1.96
	1.46	-7.098E-02	-5.484E-01	0.00	0.00	0.00	2.36
	1.95	-7.098E-02	0.00	0.00	0.00	0.00	2.49
11	2-RCP						
	0.00	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	4.9E-01	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	9.8E-01	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	1.46	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	1.95	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
11	3-IAPF1						
	0.00	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	4.9E-01	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	9.8E-01	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	1.46	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	1.95	2.01	0.00	0.00	0.00	0.00	-9.319E-01
11	4-IAPF2						
	0.00	1.98	2.628E-01	0.00	0.00	0.00	-4.049E-01
	4.9E-01	1.98	2.628E-01	0.00	0.00	0.00	-5.330E-01
	9.8E-01	1.98	2.628E-01	0.00	0.00	0.00	-6.611E-01
	1.46	1.98	2.628E-01	0.00	0.00	0.00	-7.891E-01
	1.95	1.98	2.628E-01	0.00	0.00	0.00	-9.173E-01
11	5-IAPF3						
	0.00	1.01	-1.283E-01	0.00	0.00	0.00	-7.162E-01
	4.9E-01	1.01	-1.283E-01	0.00	0.00	0.00	-6.536E-01
	9.8E-01	1.01	-1.283E-01	0.00	0.00	0.00	-5.911E-01
	1.46	1.01	-1.283E-01	0.00	0.00	0.00	-5.285E-01
	1.95	1.01	-1.283E-01	0.00	0.00	0.00	-4.659E-01
11	6-IAPF4						
	0.00	2.584E-01	1.918E-02	0.00	0.00	0.00	-8.664E-02
	4.9E-01	2.584E-01	1.918E-02	0.00	0.00	0.00	-9.600E-02
	9.8E-01	2.584E-01	1.918E-02	0.00	0.00	0.00	-1.053E-01
	1.46	2.584E-01	1.918E-02	0.00	0.00	0.00	-1.147E-01
	1.95	2.584E-01	1.918E-02	0.00	0.00	0.00	-1.241E-01
11	7-IAPF5						
	0.00	1.72	-2.436E-01	0.00	0.00	0.00	-1.27
	4.9E-01	1.72	-2.436E-01	0.00	0.00	0.00	-1.15
	9.8E-01	1.72	-2.436E-01	0.00	0.00	0.00	-1.03
	1.46	1.72	-2.436E-01	0.00	0.00	0.00	-9.120E-01
	1.95	1.72	-2.436E-01	0.00	0.00	0.00	-7.933E-01
11	8-PASE1						
	0.00	-2.749E-01	7.527E-02	0.00	0.00	0.00	2.705E-01
	4.9E-01	-2.749E-01	7.527E-02	0.00	0.00	0.00	2.338E-01
	9.8E-01	-2.749E-01	7.527E-02	0.00	0.00	0.00	1.971E-01
	1.46	-2.749E-01	7.527E-02	0.00	0.00	0.00	1.605E-01
	1.95	-2.749E-01	7.527E-02	0.00	0.00	0.00	1.238E-01
11	9-PASE2						
	0.00	-2.749E-01	-7.527E-02	0.00	0.00	0.00	-2.301E-02
	4.9E-01	-2.749E-01	-7.527E-02	0.00	0.00	0.00	1.368E-02
	9.8E-01	-2.749E-01	-7.527E-02	0.00	0.00	0.00	5.037E-02
	1.46	-2.749E-01	-7.527E-02	0.00	0.00	0.00	8.707E-02
	1.95	-2.749E-01	-7.527E-02	0.00	0.00	0.00	1.238E-01
11	10-L-INF						
	0.00	5.477E-02	-1.950E-01	0.00	0.00	0.00	7.733E-03
	4.9E-01	5.477E-02	-1.462E-01	0.00	0.00	0.00	9.091E-02
	9.8E-01	5.477E-02	-9.750E-02	0.00	0.00	0.00	1.503E-01
	1.46	5.477E-02	-4.875E-02	0.00	0.00	0.00	1.860E-01
	1.95	5.477E-02	0.00	0.00	0.00	0.00	1.979E-01
11	11-DESC1						
	0.00	-1.36	3.777E-01	0.00	0.00	0.00	1.35
	4.9E-01	-1.36	3.777E-01	0.00	0.00	0.00	1.17
	9.8E-01	-1.36	3.777E-01	0.00	0.00	0.00	9.818E-01
	1.46	-1.36	3.777E-01	0.00	0.00	0.00	7.977E-01
	1.95	-1.36	3.777E-01	0.00	0.00	0.00	6.136E-01
11	12-DESC2						
	0.00	1.97	-1.648E-01	0.00	0.00	0.00	-1.23
	4.9E-01	1.97	-1.648E-01	0.00	0.00	0.00	-1.15
	9.8E-01	1.97	-1.648E-01	0.00	0.00	0.00	-1.07
	1.46	1.97	-1.648E-01	0.00	0.00	0.00	-9.917E-01
	1.95	1.97	-1.648E-01	0.00	0.00	0.00	-9.113E-01
11	13-DESC3						
	0.00	-1.86	5.131E-01	0.00	0.00	0.00	1.84
	4.9E-01	-1.86	5.131E-01	0.00	0.00	0.00	1.59
	9.8E-01	-1.86	5.131E-01	0.00	0.00	0.00	1.34
	1.46	-1.86	5.131E-01	0.00	0.00	0.00	1.09
	1.95	-1.86	5.131E-01	0.00	0.00	0.00	8.396E-01
11	14-DESC4						
	0.00	2.01	-5.035E-02	0.00	0.00	0.00	-1.03
	4.9E-01	2.01	-5.035E-02	0.00	0.00	0.00	-1.01
	9.8E-01	2.01	-5.035E-02	0.00	0.00	0.00	-9.815E-01
	1.46	2.01	-5.035E-02	0.00	0.00	0.00	-9.570E-01
	1.95	2.01	-5.035E-02	0.00	0.00	0.00	-9.324E-01
11	1-CORR						
	0.00	-7.098E-02	-2.19	0.00	0.00	0.00	3.521E-01
	4.9E-01	-7.098E-02	-1.65	0.00	0.00	0.00	1.29
	9.8E-01	-7.098E-02	-1.10	0.00	0.00	0.00	1.96
	1.46	-7.098E-02	-5.484E-01	0.00	0.00	0.00	2.36
	1.95	-7.098E-02	0.00	0.00	0.00	0.00	2.49
11	2-CORR						
	0.00	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	4.9E-01	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	9.8E-01	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	1.46	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	1.95	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
11	3-CORR						
	0.00	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	4.9E-01	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	9.8E-01	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	1.46	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	1.95	2.01	0.00	0.00	0.00	0.00	-9.319E-01
11	4-CORR						
	0.00	2.60	-3.141E-01	0.00	0.00	0.00	-1.53
	4.9E-01	2.44	-3.141E-01	0.00	0.00	0.00	-1.38
	9.8E-01	2.29	-3.141E-01	0.00	0.00	0.00	-1.22
	1.46	2.14	-3.141E-01	0.00	0.00	0.00	-1.07
	1.95	1.98	-3.141E-01	0.00	0.00	0.00	-9.174E-01
11	5-CORR						
	0.00	3.42	-2.39	0.00	0.00	0.00	-5.12
	4.9E-01	2.82	-2.39	0.00	0.00	0.00	-3.96
	9.8E-01	2.22	-2.39	0.00	0.00	0.00	-2.79
	1.46	1.62	-2.39	0.00	0.00	0.00	-1.63
	1.95	1.02	-2.39	0.00	0.00	0.00	-4.663E-01
11	6-CORR						
	0.00	2.98	-2.53	0.00	0.00	0.00	-5.05
	4.9E-01	2.30	-2.53	0.00	0.00	0.00	-3.82
	9.8E-01	1.62	-2.53	0.00	0.00	0.00	-2.59
	1.46	9.455E-01	-2.53	0.00	0.00	0.00	-1.36
	1.95	2.674E-01	-2.53	0.00	0.00	0.00	-1.24E-01
11	7-CORR						
	0.00	3.83	-2.21	0.00	0.00	0.00	-5.11
	4.9E-01	3.30	-2.21	0.00	0.00	0.00	-4.03
	9.8E-01	2.78	-2.21	0.00	0.00	0.00	-2.95
	1.46	2.25	-2.21	0.00	0.00	0.00	-1.87
	1.95	1.73	-2.21	0.00	0.00	0.00	-7.93E-01
11	8-CORR						
	0.00	-8.120E-02	-1.060E-01	0.00	0.00	0.00	-8.905E-02
	4.9E-01	-1.295E-01	-1.060E-01	0.00	0.00	0.00	-3.136E-02
	9.8E-01	-1.777E-01	-1.060E-01	0.00	0.00	0.00	2.634E-02
	1.46	-2.260E-01	-1.060E-01	0.00	0.00	0.00	7.203E-02
	1.95	-2.743E-01	-1.060E-01	0.00	0.00	0.00	1.177E-01
11	9-CORR						
	0.00	-4.686E-01	1.060E-01	0.00	0.00	0.00	3.366E-01
	4.9E-01	-4.203E-01	1.060E-01	0.00	0.00	0.00	2.789E-01
	9.8E-01	-3.721E-01	1.060E-01	0.00	0.00	0.00	2.27_E-01
	1.46	-3.238E-01	1.060E-01	0.00	0.00	0.00	1.755E-01
	1.95	-2.755E-01	1.060E-01	0.00	0.00	0.00	1.238E-01
11	10-CORR						
	0.00	5.477E-02	-1.950E-01	0.00	0.00	0.00	7.733E-03
	4.9E-01	5.477E-02	-1.462E-01	0.00	0.00	0.00	9.091E-02
	9.8E-01	5.477E-02	-9.750E-02	0.00	0.00	0.00	1.503E-01
	1.46	5.477E-02	-4.875E-02	0.00	0.00	0.00	1.860E-01
	1.95	5.477E-02	0.00	0.00	0.00	0.00	1.979E-01
11	11-CORR						
	0.00	5.838E-01	-1.44	0.00	0.00	0.00	-2.20
	4.9E-01	9.878E-02	-1.44	0.00	0.00	0.00	-1.50

	9.8E-01	-3.863E-01	-1.44	0.00	0.00	0.00	-7.952E-01
	1.46	-8.713E-01	-1.44	0.00	0.00	0.00	-9.095E-02
	1.95	-1.36	-1.44	0.00	0.00	0.00	6.133E-01
11	12-CORR						
	0.00	2.44	-6.025E-01	0.00	0.00	0.00	-2.09
	4.9E-01	2.32	-6.025E-01	0.00	0.00	0.00	-1.79
	9.8E-01	2.21	-6.025E-01	0.00	0.00	0.00	-1.50
	1.46	2.09	-6.025E-01	0.00	0.00	0.00	-1.21
	1.95	1.98	-6.025E-01	0.00	0.00	0.00	-9.114E-01
11	13-CORR						
	0.00	-1.023E-02	-1.22	0.00	0.00	0.00	-1.65
	4.9E-01	-4.724E-01	-1.22	0.00	0.00	0.00	-9.494E-01
	9.8E-01	-9.345E-01	-1.22	0.00	0.00	0.00	-3.531E-01
	1.46	-1.40	-1.22	0.00	0.00	0.00	2.431E-01
	1.95	-1.86	-1.22	0.00	0.00	0.00	8.393E-01
11	14-CORR						
	0.00	2.09	-1.218E-01	0.00	0.00	0.00	-1.17
	4.9E-01	2.07	-1.218E-01	0.00	0.00	0.00	-1.11
	9.8E-01	2.05	-1.218E-01	0.00	0.00	0.00	-1.05
	1.46	2.03	-1.218E-01	0.00	0.00	0.00	-9.913E-01
	1.95	2.01	-1.218E-01	0.00	0.00	0.00	-9.324E-01
12	1-PP						
	0.00	-7.098E-02	-2.19	0.00	0.00	0.00	3.521E-01
	4.9E-01	-7.098E-02	-1.65	0.00	0.00	0.00	1.29
	9.8E-01	-7.098E-02	-1.10	0.00	0.00	0.00	1.96
	1.46	-7.098E-02	-5.484E-01	0.00	0.00	0.00	2.36
	1.95	-7.098E-02	0.00	0.00	0.00	0.00	2.49
12	2-RCP						
	0.00	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	4.9E-01	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	9.8E-01	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	1.46	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	1.95	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
12	3-IAPF1						
	0.00	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	4.9E-01	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	9.8E-01	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	1.46	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	1.95	2.01	0.00	0.00	0.00	0.00	-9.319E-01
12	4-IAPF2						
	0.00	1.98	-2.628E-01	0.00	0.00	0.00	-1.43
	4.9E-01	1.98	-2.628E-01	0.00	0.00	0.00	-1.30
	9.8E-01	1.98	-2.628E-01	0.00	0.00	0.00	-1.17
	1.46	1.98	-2.628E-01	0.00	0.00	0.00	-1.05
	1.95	1.98	-2.628E-01	0.00	0.00	0.00	-9.173E-01
12	5-IAPF3						
	0.00	1.01	1.283E-01	0.00	0.00	0.00	-2.157E-01
	4.9E-01	1.01	1.283E-01	0.00	0.00	0.00	-2.783E-01
	9.8E-01	1.01	1.283E-01	0.00	0.00	0.00	-3.403E-01
	1.46	1.01	1.283E-01	0.00	0.00	0.00	-4.034E-01
	1.95	1.01	1.283E-01	0.00	0.00	0.00	-4.659E-01
12	6-IAPF4						
	0.00	2.584E-01	-1.918E-02	0.00	0.00	0.00	-1.615E-01
	4.9E-01	2.584E-01	-1.918E-02	0.00	0.00	0.00	-1.521E-01
	9.8E-01	2.584E-01	-1.918E-02	0.00	0.00	0.00	-1.428E-01
	1.46	2.584E-01	-1.918E-02	0.00	0.00	0.00	-1.334E-01
	1.95	2.584E-01	-1.918E-02	0.00	0.00	0.00	-1.241E-01
12	7-IAPF5						
	0.00	1.72	2.436E-01	0.00	0.00	0.00	-3.183E-01
	4.9E-01	1.72	2.436E-01	0.00	0.00	0.00	-4.370E-01
	9.8E-01	1.72	2.436E-01	0.00	0.00	0.00	-5.558E-01
	1.46	1.72	2.436E-01	0.00	0.00	0.00	-6.745E-01
	1.95	1.72	2.436E-01	0.00	0.00	0.00	-7.933E-01
12	8-PASE1						
	0.00	-2.749E-01	-7.527E-02	0.00	0.00	0.00	-2.301E-02
	4.9E-01	-2.749E-01	-7.527E-02	0.00	0.00	0.00	1.368E-02
	9.8E-01	-2.749E-01	-7.527E-02	0.00	0.00	0.00	5.037E-02
	1.46	-2.749E-01	-7.527E-02	0.00	0.00	0.00	8.707E-02
	1.95	-2.749E-01	-7.527E-02	0.00	0.00	0.00	1.238E-01
12	9-PASE2						
	0.00	-2.749E-01	7.527E-02	0.00	0.00	0.00	2.705E-01
	4.9E-01	-2.749E-01	7.527E-02	0.00	0.00	0.00	2.338E-01
	9.8E-01	-2.749E-01	7.527E-02	0.00	0.00	0.00	1.971E-01
	1.46	-2.749E-01	7.527E-02	0.00	0.00	0.00	1.605E-01
	1.95	-2.749E-01	7.527E-02	0.00	0.00	0.00	1.238E-01
12	10-L-INF						
	0.00	5.477E-02	-1.950E-01	0.00	0.00	0.00	7.733E-03
	4.9E-01	5.477E-02	-1.462E-01	0.00	0.00	0.00	9.091E-02
	9.8E-01	5.477E-02	-9.750E-02	0.00	0.00	0.00	1.503E-01
	1.46	5.477E-02	-4.875E-02	0.00	0.00	0.00	1.860E-01
	1.95	5.477E-02	0.00	0.00	0.00	0.00	1.979E-01
12	11-DESC1						
	0.00	-1.36	-3.777E-01	0.00	0.00	0.00	-1.229E-01
	4.9E-01	-1.36	-3.777E-01	0.00	0.00	0.00	6.124E-02
	9.8E-01	-1.36	-3.777E-01	0.00	0.00	0.00	2.453E-01
	1.46	-1.36	-3.777E-01	0.00	0.00	0.00	4.295E-01
	1.95	-1.36	-3.777E-01	0.00	0.00	0.00	6.136E-01
12	12-DESC2						
	0.00	1.97	1.648E-01	0.00	0.00	0.00	-5.900E-01
	4.9E-01	1.97	1.648E-01	0.00	0.00	0.00	-6.704E-01
	9.8E-01	1.97	1.648E-01	0.00	0.00	0.00	-7.506E-01
	1.46	1.97	1.648E-01	0.00	0.00	0.00	-8.310E-01
	1.95	1.97	1.648E-01	0.00	0.00	0.00	-9.113E-01
12	13-DESC3						
	0.00	-1.86	-5.131E-01	0.00	0.00	0.00	-1.660E-01
	4.9E-01	-1.86	-5.131E-01	0.00	0.00	0.00	8.381E-02
	9.8E-01	-1.86	-5.131E-01	0.00	0.00	0.00	3.359E-01
	1.46	-1.86	-5.131E-01	0.00	0.00	0.00	5.899E-01
	1.95	-1.86	-5.131E-01	0.00	0.00	0.00	8.396E-01
12	14-DESC4						
	0.00	2.01	5.035E-02	0.00	0.00	0.00	-8.343E-01
	4.9E-01	2.01	5.035E-02	0.00	0.00	0.00	-8.588E-01
	9.8E-01	2.01	5.035E-02	0.00	0.00	0.00	-8.833E-01
	1.46	2.01	5.035E-02	0.00	0.00	0.00	-9.079E-01
	1.95	2.01	5.035E-02	0.00	0.00	0.00	-9.324E-01
12	1-CORR						
	0.00	-7.098E-02	-2.19	0.00	0.00	0.00	3.521E-01
	4.9E-01	-7.098E-02	-1.65	0.00	0.00	0.00	1.29
	9.8E-01	-7.098E-02	-1.10	0.00	0.00	0.00	1.96
	1.46	-7.098E-02	-5.484E-01	0.00	0.00	0.00	2.36
	1.95	-7.098E-02	0.00	0.00	0.00	0.00	2.49
12	2-CORR						
	0.00	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	4.9E-01	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	9.8E-01	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	1.46	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
	1.95	-8.058E-01	0.00	0.00	0.00	0.00	3.520E-01
12	3-CORR						
	0.00	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	4.9E-01	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	9.8E-01	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	1.46	2.01	0.00	0.00	0.00	0.00	-9.319E-01
	1.95	2.01	0.00	0.00	0.00	0.00	-9.319E-01
12	4-CORR						
	0.00	1.37	3.141E-01	0.00	0.00	0.00	-3.049E-01
	4.9E-01	1.52	3.141E-01	0.00	0.00	0.00	-4.580E-01
	9.8E-01	1.67	3.141E-01	0.00	0.00	0.00	-6.111E-01
	1.46	1.83	3.141E-01	0.00	0.00	0.00	-7.643E-01
	1.95	1.98	3.141E-01	0.00	0.00	0.00	-9.174E-01
12	5-CORR						
	0.00	-1.39	2.39	0.00	0.00	0.00	4.19
	4.9E-01	-7.895E-01	2.39	0.00	0.00	0.00	3.03
	9.8E-01	-1.880E-01	2.39	0.00	0.00	0.00	1.86
	1.46	4.136E-01	2.39	0.00	0.00	0.00	6.980E-01
	1.95	1.02	2.39	0.00	0.00	0.00	-4.669E-01
12	6-CORR						
	0.00	-2.45	2.53	0.00	0.00	0.00	4.81
	4.9E-01	-1.77	2.53	0.00	0.00	0.00	3.57
	9.8E-01	-1.09	2.53	0.00	0.00	0.00	2.34
	1.46	-4.107E-01	2.53	0.00	0.00	0.00	1.11
	1.95	2.674E-01	2.53	0.00	0.00	0.00	-1.245E-01
12	7-CORR						
	0.00	-3.698E-01	2.21	0.00	0.00	0.00	3.52
	4.9E-01	1.548E-01	2.21	0.00	0.00	0.00	2.44
	9.8E-01	6.793E-01	2.21	0.00	0.00	0.00	1.37
	1.46	1.20	2.21	0.00	0.00	0.00	2.858E-01
	1.95	1.73	2.21	0.00	0.00	0.00	-7.936E-01
12	8-CORR						
	0.00	-4.673E-01	1.060E-01	0.00	0.00	0.00	3.305E-01
	4.9E-01	-4.190E-01	1.060E-01	0.00	0.00	0.00	2.788E-01
	9.8E-01	-3.708E-01	1.060E-01	0.00	0.00	0.00	2.271E-01
	1.46	-3.225E-01	1.060E-01	0.00	0.00	0.00	1.754E-01
	1.95	-2.743E-01	1.060E-01	0.00	0.00	0.00	1.237E-01

12	9-CORR						
	0.00	-8.248E-02	-1.060E-01	0.00	0.00	0.00	-8.299E-02
	4.9E-01	-1.307E-01	-1.060E-01	0.00	0.00	0.00	-3.130E-02
	9.8E-01	-1.790E-01	-1.060E-01	0.00	0.00	0.00	2.040E-02
	1.46	-2.273E-01	-1.060E-01	0.00	0.00	0.00	7.209E-02
	1.95	-2.755E-01	-1.060E-01	0.00	0.00	0.00	1.238E-01
12	10-CORR						
	0.00	5.477E-02	-1.950E-01	0.00	0.00	0.00	7.733E-03
	4.9E-01	5.477E-02	-1.462E-01	0.00	0.00	0.00	9.091E-02
	9.8E-01	5.477E-02	-9.750E-02	0.00	0.00	0.00	1.503E-01
	1.46	5.477E-02	-4.875E-02	0.00	0.00	0.00	1.860E-01
	1.95	5.477E-02	0.00	0.00	0.00	0.00	1.979E-01
12	11-CORR						
	0.00	-3.30	1.44	0.00	0.00	0.00	3.43
	4.9E-01	-2.81	1.44	0.00	0.00	0.00	2.73
	9.8E-01	-2.33	1.44	0.00	0.00	0.00	2.02
	1.46	-1.84	1.44	0.00	0.00	0.00	1.32
	1.95	-1.36	1.44	0.00	0.00	0.00	6.133E-01
12	12-CORR						
	0.00	1.51	6.025E-01	0.00	0.00	0.00	2.635E-01
	4.9E-01	1.63	6.025E-01	0.00	0.00	0.00	-3.023E-02
	9.8E-01	1.74	6.025E-01	0.00	0.00	0.00	-3.240E-01
	1.46	1.86	6.025E-01	0.00	0.00	0.00	-6.177E-01
	1.95	1.98	6.025E-01	0.00	0.00	0.00	-9.114E-01
12	13-CORR						
	0.00	-3.71	1.22	0.00	0.00	0.00	3.22
	4.9E-01	-3.25	1.22	0.00	0.00	0.00	2.63
	9.8E-01	-2.78	1.22	0.00	0.00	0.00	2.03
	1.46	-2.32	1.22	0.00	0.00	0.00	1.44
	1.95	-1.86	1.22	0.00	0.00	0.00	8.393E-01
12	14-CORR						
	0.00	1.94	1.218E-01	0.00	0.00	0.00	-6.950E-01
	4.9E-01	1.95	1.218E-01	0.00	0.00	0.00	-7.543E-01
	9.8E-01	1.97	1.218E-01	0.00	0.00	0.00	-8.137E-01
	1.46	1.99	1.218E-01	0.00	0.00	0.00	-8.731E-01
	1.95	2.01	1.218E-01	0.00	0.00	0.00	-9.324E-01
13	1-PP						
	0.00	4.247E-01	-2.98	0.00	0.00	0.00	-1.76
	2.1E-01	3.822E-01	-2.72	0.00	0.00	0.00	-1.17
	4.2E-01	3.456E-01	-2.51	0.00	0.00	0.00	-6.217E-01
	6.3E-01	3.151E-01	-2.32	0.00	0.00	0.00	-1.176E-01
	8.4E-01	2.906E-01	-2.18	0.00	0.00	0.00	3.521E-01
13	2-RCP						
	0.00	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.413E-01
	2.1E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.689E-01
	4.2E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.966E-01
	6.3E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	3.243E-01
	8.4E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	3.520E-01
13	3-IAPF1						
	0.00	1.99	3.312E-01	0.00	0.00	0.00	-6.549E-01
	2.1E-01	1.99	3.312E-01	0.00	0.00	0.00	-7.241E-01
	4.2E-01	1.99	3.312E-01	0.00	0.00	0.00	-7.934E-01
	6.3E-01	1.99	3.312E-01	0.00	0.00	0.00	-8.626E-01
	8.4E-01	1.99	3.312E-01	0.00	0.00	0.00	-9.319E-01
13	4-IAPF2						
	0.00	2.00	6.630E-02	0.00	0.00	0.00	-1.37
	2.1E-01	2.00	6.630E-02	0.00	0.00	0.00	-1.39
	4.2E-01	2.00	6.630E-02	0.00	0.00	0.00	-1.40
	6.3E-01	2.00	6.630E-02	0.00	0.00	0.00	-1.41
	8.4E-01	2.00	6.630E-02	0.00	0.00	0.00	-1.43
13	5-IAPF3						
	0.00	9.724E-01	2.922E-01	0.00	0.00	0.00	2.866E-02
	2.1E-01	9.724E-01	2.922E-01	0.00	0.00	0.00	-3.243E-02
	4.2E-01	9.724E-01	2.922E-01	0.00	0.00	0.00	-9.352E-02
	6.3E-01	9.724E-01	2.922E-01	0.00	0.00	0.00	-1.546E-01
	8.4E-01	9.724E-01	2.922E-01	0.00	0.00	0.00	-2.157E-01
13	6-IAPF4						
	0.00	2.580E-01	2.355E-02	0.00	0.00	0.00	-1.418E-01
	2.1E-01	2.580E-01	2.355E-02	0.00	0.00	0.00	-1.467E-01
	4.2E-01	2.580E-01	2.355E-02	0.00	0.00	0.00	-1.516E-01
	6.3E-01	2.580E-01	2.355E-02	0.00	0.00	0.00	-1.565E-01
	8.4E-01	2.580E-01	2.355E-02	0.00	0.00	0.00	-1.615E-01
13	7-IAPF5						
	0.00	1.66	5.233E-01	0.00	0.00	0.00	1.194E-01
	2.1E-01	1.66	5.233E-01	0.00	0.00	0.00	9.959E-03
	4.2E-01	1.66	5.233E-01	0.00	0.00	0.00	-9.945E-02
	6.3E-01	1.66	5.233E-01	0.00	0.00	0.00	-2.089E-01
	8.4E-01	1.66	5.233E-01	0.00	0.00	0.00	-3.184E-01
13	8-BASE1						
	0.00	-2.588E-01	-1.194E-01	0.00	0.00	0.00	-1.229E-01
	2.1E-01	-2.588E-01	-1.194E-01	0.00	0.00	0.00	-9.793E-02
	4.2E-01	-2.588E-01	-1.194E-01	0.00	0.00	0.00	-7.296E-02
	6.3E-01	-2.588E-01	-1.194E-01	0.00	0.00	0.00	-4.798E-02
	8.4E-01	-2.588E-01	-1.194E-01	0.00	0.00	0.00	-2.301E-02
13	9-BASE2						
	0.00	-2.835E-01	2.905E-02	0.00	0.00	0.00	2.948E-01
	2.1E-01	-2.835E-01	2.905E-02	0.00	0.00	0.00	2.887E-01
	4.2E-01	-2.835E-01	2.905E-02	0.00	0.00	0.00	2.827E-01
	6.3E-01	-2.835E-01	2.905E-02	0.00	0.00	0.00	2.766E-01
	8.4E-01	-2.835E-01	2.905E-02	0.00	0.00	0.00	2.705E-01
13	10-L-INF						
	0.00	9.983E-02	-2.658E-01	0.00	0.00	0.00	-1.801E-01
	2.1E-01	9.639E-02	-2.452E-01	0.00	0.00	0.00	-1.367E-01
	4.2E-01	9.295E-02	-2.246E-01	0.00	0.00	0.00	-7.756E-02
	6.3E-01	8.952E-02	-2.040E-01	0.00	0.00	0.00	-3.276E-02
	8.4E-01	8.608E-02	-1.833E-01	0.00	0.00	0.00	7.733E-03
13	11-DESC1						
	0.00	-1.28	-5.966E-01	0.00	0.00	0.00	-6.218E-01
	2.1E-01	-1.28	-5.966E-01	0.00	0.00	0.00	-4.971E-01
	4.2E-01	-1.28	-5.966E-01	0.00	0.00	0.00	-3.723E-01
	6.3E-01	-1.28	-5.966E-01	0.00	0.00	0.00	-2.476E-01
	8.4E-01	-1.28	-5.966E-01	0.00	0.00	0.00	-1.229E-01
13	12-DESC2						
	0.00	1.92	4.870E-01	0.00	0.00	0.00	-1.826E-01
	2.1E-01	1.92	4.870E-01	0.00	0.00	0.00	-2.844E-01
	4.2E-01	1.92	4.870E-01	0.00	0.00	0.00	-3.863E-01
	6.3E-01	1.92	4.870E-01	0.00	0.00	0.00	-4.881E-01
	8.4E-01	1.92	4.870E-01	0.00	0.00	0.00	-5.900E-01
13	13-DESC3						
	0.00	-1.76	-8.127E-01	0.00	0.00	0.00	-8.407E-01
	2.1E-01	-1.76	-8.127E-01	0.00	0.00	0.00	-6.707E-01
	4.2E-01	-1.76	-8.127E-01	0.00	0.00	0.00	-5.008E-01
	6.3E-01	-1.76	-8.127E-01	0.00	0.00	0.00	-3.309E-01
	8.4E-01	-1.76	-8.127E-01	0.00	0.00	0.00	-1.609E-01
13	14-DESC4						
	0.00	1.98	3.803E-01	0.00	0.00	0.00	-5.161E-01
	2.1E-01	1.98	3.803E-01	0.00	0.00	0.00	-5.957E-01
	4.2E-01	1.98	3.803E-01	0.00	0.00	0.00	-6.752E-01
	6.3E-01	1.98	3.803E-01	0.00	0.00	0.00	-7.547E-01
	8.4E-01	1.98	3.803E-01	0.00	0.00	0.00	-8.343E-01
13	1-CORR						
	0.00	4.247E-01	-2.98	0.00	0.00	0.00	-1.76
	2.1E-01	3.822E-01	-2.72	0.00	0.00	0.00	-1.17
	4.2E-01	3.456E-01	-2.51	0.00	0.00	0.00	-6.217E-01
	6.3E-01	3.151E-01	-2.32	0.00	0.00	0.00	-1.176E-01
	8.4E-01	2.906E-01	-2.18	0.00	0.00	0.00	3.521E-01
13	2-CORR						
	0.00	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.413E-01
	2.1E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.689E-01
	4.2E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	2.966E-01
	6.3E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	3.243E-01
	8.4E-01	-7.948E-01	-1.325E-01	0.00	0.00	0.00	3.520E-01
13	3-CORR						
	0.00	1.99	3.312E-01	0.00	0.00	0.00	-6.549E-01
	2.1E-01	1.99	3.312E-01	0.00	0.00	0.00	-7.241E-01
	4.2E-01	1.99	3.312E-01	0.00	0.00	0.00	-7.934E-01
	6.3E-01	1.99	3.312E-01	0.00	0.00	0.00	-8.626E-01
	8.4E-01	1.99	3.312E-01	0.00	0.00	0.00	-9.319E-01
13	4-CORR						
	0.00	1.04	4.914E-01	0.00	0.00	0.00	1.141E-01
	2.1E-01	1.10	5.022E-01	0.00	0.00	0.00	-1.936E-02
	4.2E-01	1.17	5.130E-01	0.00	0.00	0.00	-8.579E-02
	6.3E-01	1.23	5.239E-01	0.00	0.00	0.00	-1.942E-01
	8.4E-01	1.30	5.347E-01	0.00	0.00	0.00	-3.026E-01
13	5-CORR						
	0.00	-2.78	1.96	0.00	0.00	0.00	5.90
	2.1E-01	-2.53	2.00	0.00	0.00	0.00	5.49
	4.2E-01	-2.27	2.04	0.00	0.00	0.00	5.06
	6.3E-01	-2.02	2.08	0.00	0.00	0.00	4.63
	8.4E-01	-1.76	2.13	0.00	0.00	0.00	4.19
13	6-CORR						
	0.00	-3.98	1.90	0.00	0.00	0.00	6.48
	2.1E-01	-3.69	1.95	0.00	0.00	0.00	6.07

	4.2E-01	-3.40	2.00	0.00	0.00	0.00	5.66
	6.3E-01	-3.11	2.04	0.00	0.00	0.00	5.24
	8.4E-01	-2.83	2.09	0.00	0.00	0.00	4.81
13	7-CORR						
	0.00	-1.62	1.98	0.00	0.00	0.00	5.24
	2.1E-01	-1.39	2.01	0.00	0.00	0.00	4.82
	4.2E-01	-1.17	2.05	0.00	0.00	0.00	4.40
	6.3E-01	-9.507E-01	2.09	0.00	0.00	0.00	3.96
	8.4E-01	-7.288E-01	2.12	0.00	0.00	0.00	3.52
13	8-CORR						
	0.00	-5.601E-01	1.416E-02	0.00	0.00	0.00	3.480E-01
	2.1E-01	-5.396E-01	1.756E-02	0.00	0.00	0.00	3.447E-01
	4.2E-01	-5.192E-01	2.097E-02	0.00	0.00	0.00	3.407E-01
	6.3E-01	-4.988E-01	2.437E-02	0.00	0.00	0.00	3.360E-01
	8.4E-01	-4.784E-01	2.777E-02	0.00	0.00	0.00	3.305E-01
13	9-CORR						
	0.00	1.775E-02	-1.045E-01	0.00	0.00	0.00	-1.761E-01
	2.1E-01	-2.672E-03	-1.079E-01	0.00	0.00	0.00	-1.539E-01
	4.2E-01	-2.309E-02	-1.114E-01	0.00	0.00	0.00	-1.310E-01
	6.3E-01	-4.351E-02	-1.148E-01	0.00	0.00	0.00	-1.073E-01
	8.4E-01	-6.393E-02	-1.182E-01	0.00	0.00	0.00	-8.299E-02
13	10-CORR						
	0.00	9.983E-02	-2.658E-01	0.00	0.00	0.00	-1.801E-01
	2.1E-01	9.639E-02	-2.452E-01	0.00	0.00	0.00	-1.267E-01
	4.2E-01	9.295E-02	-2.246E-01	0.00	0.00	0.00	-7.756E-02
	6.3E-01	8.952E-02	-2.040E-01	0.00	0.00	0.00	-3.276E-02
	8.4E-01	8.608E-02	-1.833E-01	0.00	0.00	0.00	7.733E-03
13	11-CORR						
	0.00	-4.31	7.461E-01	0.00	0.00	0.00	4.11
	2.1E-01	-4.10	7.803E-01	0.00	0.00	0.00	3.95
	4.2E-01	-3.90	8.145E-01	0.00	0.00	0.00	3.79
	6.3E-01	-3.69	8.487E-01	0.00	0.00	0.00	3.61
	8.4E-01	-3.49	8.829E-01	0.00	0.00	0.00	3.43
13	12-CORR						
	0.00	1.19	8.096E-01	0.00	0.00	0.00	9.543E-01
	2.1E-01	1.24	8.178E-01	0.00	0.00	0.00	7.842E-01
	4.2E-01	1.29	8.260E-01	0.00	0.00	0.00	6.123E-01
	6.3E-01	1.31	8.342E-01	0.00	0.00	0.00	4.388E-01
	8.4E-01	1.39	8.424E-01	0.00	0.00	0.00	2.635E-01
13	13-CORR						
	0.00	-4.64	4.666E-01	0.00	0.00	0.00	3.67
	2.1E-01	-4.44	4.992E-01	0.00	0.00	0.00	3.57
	4.2E-01	-4.25	5.317E-01	0.00	0.00	0.00	3.46
	6.3E-01	-4.05	5.643E-01	0.00	0.00	0.00	3.35
	8.4E-01	-3.86	5.969E-01	0.00	0.00	0.00	3.22
13	14-CORR						
	0.00	1.86	4.330E-01	0.00	0.00	0.00	-3.306E-01
	2.1E-01	1.87	4.343E-01	0.00	0.00	0.00	-4.213E-01
	4.2E-01	1.87	4.356E-01	0.00	0.00	0.00	-5.122E-01
	6.3E-01	1.88	4.370E-01	0.00	0.00	0.00	-6.035E-01
	8.4E-01	1.89	4.383E-01	0.00	0.00	0.00	-6.950E-01
14	1-PP						
	0.00	-5.55	-7.098E-02	0.00	0.00	0.00	-2.01
	8.6E-01	-6.52	-7.098E-02	0.00	0.00	0.00	-1.95
	1.72	-7.48	-7.098E-02	0.00	0.00	0.00	-1.89
	2.57	-8.45	-7.098E-02	0.00	0.00	0.00	-1.82
	3.43	-9.41	-7.098E-02	0.00	0.00	0.00	-1.76
14	2-RCP						
	0.00	-7.18	-8.058E-01	0.00	0.00	0.00	-2.52
	8.6E-01	-7.18	-8.058E-01	0.00	0.00	0.00	-1.83
	1.72	-7.18	-8.058E-01	0.00	0.00	0.00	-1.14
	2.57	-7.18	-8.058E-01	0.00	0.00	0.00	-4.501E-01
	3.43	-7.18	-8.058E-01	0.00	0.00	0.00	2.412E-01
14	3-IAPF1						
	0.00	-19.96	2.01	0.00	0.00	0.00	6.26
	8.6E-01	-19.96	2.01	0.00	0.00	0.00	4.53
	1.72	-19.96	2.01	0.00	0.00	0.00	2.80
	2.57	-19.96	2.01	0.00	0.00	0.00	1.07
	3.43	-19.96	2.01	0.00	0.00	0.00	-6.549E-01
14	4-IAPF2						
	0.00	-21.85	1.98	0.00	0.00	0.00	5.42
	8.6E-01	-21.85	1.98	0.00	0.00	0.00	3.72
	1.72	-21.85	1.98	0.00	0.00	0.00	2.02
	2.57	-21.85	1.98	0.00	0.00	0.00	3.246E-01
	3.43	-21.85	1.98	0.00	0.00	0.00	-1.37
14	5-IAPF3						
	0.00	-18.57	1.01	0.00	0.00	0.00	3.49
	8.6E-01	-18.57	1.01	0.00	0.00	0.00	2.62
	1.72	-18.57	1.01	0.00	0.00	0.00	1.76
	2.57	-18.57	1.01	0.00	0.00	0.00	8.929E-01
	3.43	-18.57	1.01	0.00	0.00	0.00	2.866E-02
14	6-IAPF4						
	0.00	-19.51	2.584E-01	0.00	0.00	0.00	7.450E-01
	8.6E-01	-19.51	2.584E-01	0.00	0.00	0.00	5.233E-01
	1.72	-19.51	2.584E-01	0.00	0.00	0.00	3.016E-01
	2.57	-19.51	2.584E-01	0.00	0.00	0.00	7.993E-02
	3.43	-19.51	2.584E-01	0.00	0.00	0.00	-1.418E-01
14	7-IAPF5						
	0.00	-17.61	1.72	0.00	0.00	0.00	6.03
	8.6E-01	-17.61	1.72	0.00	0.00	0.00	4.55
	1.72	-17.61	1.72	0.00	0.00	0.00	3.07
	2.57	-17.61	1.72	0.00	0.00	0.00	1.60
	3.43	-17.61	1.72	0.00	0.00	0.00	1.194E-01
14	8-PASE1						
	0.00	-9.139E-01	-2.749E-01	0.00	0.00	0.00	-1.07
	8.6E-01	-9.139E-01	-2.749E-01	0.00	0.00	0.00	-8.305E-01
	1.72	-9.139E-01	-2.749E-01	0.00	0.00	0.00	-5.940E-01
	2.57	-9.139E-01	-2.749E-01	0.00	0.00	0.00	-3.588E-01
	3.43	-9.139E-01	-2.749E-01	0.00	0.00	0.00	-1.229E-01
14	9-PASE2						
	0.00	2.939E-01	-2.749E-01	0.00	0.00	0.00	-6.487E-01
	8.6E-01	2.939E-01	-2.749E-01	0.00	0.00	0.00	-4.128E-01
	1.72	2.939E-01	-2.749E-01	0.00	0.00	0.00	-1.769E-01
	2.57	2.939E-01	-2.749E-01	0.00	0.00	0.00	5.895E-02
	3.43	2.939E-01	-2.749E-01	0.00	0.00	0.00	2.948E-01
14	10-L-INF						
	0.00	0.00	5.477E-02	0.00	0.00	0.00	7.857E-03
	8.6E-01	0.00	5.477E-02	0.00	0.00	0.00	-3.914E-02
	1.72	0.00	5.477E-02	0.00	0.00	0.00	-8.613E-02
	2.57	0.00	5.477E-02	0.00	0.00	0.00	-1.331E-01
	3.43	0.00	5.477E-02	0.00	0.00	0.00	-1.801E-01
14	11-DESC1						
	0.00	-11.45	-1.36	0.00	0.00	0.00	-5.30
	8.6E-01	-11.45	-1.36	0.00	0.00	0.00	-4.13
	1.72	-11.45	-1.36	0.00	0.00	0.00	-2.96
	2.57	-11.45	-1.36	0.00	0.00	0.00	-1.79
	3.43	-11.45	-1.36	0.00	0.00	0.00	-6.218E-01
14	12-DESC2						
	0.00	-6.81	1.97	0.00	0.00	0.00	6.59
	8.6E-01	-6.81	1.97	0.00	0.00	0.00	4.90
	1.72	-6.81	1.97	0.00	0.00	0.00	3.20
	2.57	-6.81	1.97	0.00	0.00	0.00	1.51
	3.43	-6.81	1.97	0.00	0.00	0.00	-1.826E-01
14	13-DESC3						
	0.00	-9.99	-1.86	0.00	0.00	0.00	-7.24
	8.6E-01	-9.99	-1.86	0.00	0.00	0.00	-5.64
	1.72	-9.99	-1.86	0.00	0.00	0.00	-4.04
	2.57	-9.99	-1.86	0.00	0.00	0.00	-2.44
	3.43	-9.99	-1.86	0.00	0.00	0.00	-8.407E-01
14	14-DESC4						
	0.00	-4.32	2.01	0.00	0.00	0.00	6.39
	8.6E-01	-4.32	2.01	0.00	0.00	0.00	4.66
	1.72	-4.32	2.01	0.00	0.00	0.00	2.94
	2.57	-4.32	2.01	0.00	0.00	0.00	1.21
	3.43	-4.32	2.01	0.00	0.00	0.00	-5.161E-01
14	1-CORR						
	0.00	-5.55	-7.098E-02	0.00	0.00	0.00	-2.01
	8.6E-01	-3.41	-7.098E-02	0.00	0.00	0.00	-1.35
	1.72	-1.27	-7.098E-02	0.00	0.00	0.00	-1.89
	2.57	8.639E-01	-7.098E-02	0.00	0.00	0.00	-1.82
	3.43	3.00	-7.098E-02	0.00	0.00	0.00	-1.76
14	2-CORR						
	0.00	-7.18	-8.058E-01	0.00	0.00	0.00	-2.52
	8.6E-01	-5.38	-8.058E-01	0.00	0.00	0.00	-1.83
	1.72	-3.59	-8.058E-01	0.00	0.00	0.00	-1.14
	2.57	-1.79	-8.058E-01	0.00	0.00	0.00	-4.501E-01
	3.43	1.932E-03	-8.058E-01	0.00	0.00	0.00	2.412E-01
14	3-CORR						
	0.00	-19.96	2.01	0.00	0.00	0.00	6.26
	8.6E-01	-14.97	2.01	0.00	0.00	0.00	4.53
	1.72	-9.98	2.01	0.00	0.00	0.00	2.80
	2.57	-4.99	2.01	0.00	0.00	0.00	1.07
	3.43	2.692E-03	2.01	0.00	0.00	0.00	-6.549E-01

14	4-CORR						
	0.00	-21.28	1.10	0.00	0.00	0.00	3.91
	8.6E-01	-16.02	1.10	0.00	0.00	0.00	2.97
	1.72	-10.76	1.10	0.00	0.00	0.00	2.02
	2.57	-5.50	1.10	0.00	0.00	0.00	1.07
	3.43	-2.443E-01	1.10	0.00	0.00	0.00	1.242E-01
14	5-CORR						
	0.00	-16.34	-2.42	0.00	0.00	0.00	-2.42
	8.6E-01	-12.78	-2.42	0.00	0.00	0.00	-3.388E-01
	1.72	-9.23	-2.42	0.00	0.00	0.00	1.74
	2.57	-5.68	-2.42	0.00	0.00	0.00	3.82
	3.43	-2.12	-2.42	0.00	0.00	0.00	5.90
14	6-CORR						
	0.00	-16.98	-3.61	0.00	0.00	0.00	-5.91
	8.6E-01	-13.30	-3.61	0.00	0.00	0.00	-2.81
	1.72	-9.61	-3.61	0.00	0.00	0.00	2.828E-01
	2.57	-5.92	-3.61	0.00	0.00	0.00	3.38
	3.43	-2.23	-3.61	0.00	0.00	0.00	6.48
14	7-CORR						
	0.00	-15.66	-1.27	0.00	0.00	0.00	8.900E-01
	8.6E-01	-12.24	-1.27	0.00	0.00	0.00	1.87
	1.72	-8.82	-1.27	0.00	0.00	0.00	2.86
	2.57	-5.40	-1.27	0.00	0.00	0.00	4.15
	3.43	-1.99	-1.27	0.00	0.00	0.00	5.24
14	8-CORR						
	0.00	-7.344E-01	-5.501E-01	0.00	0.00	0.00	-1.54
	8.6E-01	-5.723E-01	-5.501E-01	0.00	0.00	0.00	-1.07
	1.72	-4.101E-01	-5.501E-01	0.00	0.00	0.00	-5.960E-01
	2.57	-2.479E-01	-5.501E-01	0.00	0.00	0.00	-1.240E-01
	3.43	-8.574E-02	-5.501E-01	0.00	0.00	0.00	3.480E-01
14	9-CORR						
	0.00	1.144E-01	3.184E-04	0.00	0.00	0.00	-1.750E-01
	8.6E-01	1.067E-01	3.184E-04	0.00	0.00	0.00	-1.753E-01
	1.72	9.898E-02	3.184E-04	0.00	0.00	0.00	-1.756E-01
	2.57	9.126E-02	3.184E-04	0.00	0.00	0.00	-1.759E-01
	3.43	8.353E-02	3.184E-04	0.00	0.00	0.00	-1.761E-01
14	10-CORR						
	0.00	0.00	5.477E-02	0.00	0.00	0.00	7.857E-03
	8.6E-01	6.950E-02	5.477E-02	0.00	0.00	0.00	-3.914E-02
	1.72	1.390E-01	5.477E-02	0.00	0.00	0.00	-8.613E-02
	2.57	2.085E-01	5.477E-02	0.00	0.00	0.00	-1.331E-01
	3.43	2.780E-01	5.477E-02	0.00	0.00	0.00	-1.801E-01
14	11-CORR						
	0.00	-9.65	-4.13	0.00	0.00	0.00	-1.406
	8.6E-01	-7.54	-4.13	0.00	0.00	0.00	-6.52
	1.72	-5.44	-4.13	0.00	0.00	0.00	-2.97
	2.57	-3.34	-4.13	0.00	0.00	0.00	5.687E-01
	3.43	-1.23	-4.13	0.00	0.00	0.00	4.11
14	12-CORR						
	0.00	-6.37	1.31	0.00	0.00	0.00	5.45
	8.6E-01	-4.92	1.31	0.00	0.00	0.00	4.32
	1.72	-3.46	1.31	0.00	0.00	0.00	3.20
	2.57	-2.01	1.31	0.00	0.00	0.00	2.08
	3.43	-5.522E-01	1.31	0.00	0.00	0.00	9.543E-01
14	13-CORR						
	0.00	-8.27	-4.50	0.00	0.00	0.00	-11.78
	8.6E-01	-6.46	-4.50	0.00	0.00	0.00	-7.92
	1.72	-4.65	-4.50	0.00	0.00	0.00	-4.05
	2.57	-2.83	-4.50	0.00	0.00	0.00	-1.925E-01
	3.43	-1.02	-4.50	0.00	0.00	0.00	3.67
14	14-CORR						
	0.00	-4.25	1.90	0.00	0.00	0.00	6.20
	8.6E-01	-3.21	1.90	0.00	0.00	0.00	4.57
	1.72	-2.18	1.90	0.00	0.00	0.00	2.94
	2.57	-1.15	1.90	0.00	0.00	0.00	1.30
	3.43	-1.123E-01	1.90	0.00	0.00	0.00	-3.306E-01

ESFUERZOS DE FLEXIÓN DE LA SECCIÓN TRANSVERSAL APOYADA

CARACTERISTICAS DE LA SECCION

fck	400
fyk	5100
COEF. IMPACTO VOLADIZO	1.67
COEF. IMPACTO VANO INT	1.6

																	ENVOLVENTES DE FLEXIÓN						
SECCIÓN	BARRA	CANTO	1-PP	2-RCP	8-PASE1	9-PASE2	PASEOS	10-L-INF	3-IAPF1	4-IAPF2	5-IAPF3	6-IAPF4	7-IAPF5	11-DESC1	12-DESC2	13-DESC3	14-DESC4	M+	Uo	Us1 +	As+ (cm2)	M-	Us1 -	As- (cm2)
Voladizo Ext Izq	1	0.1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	272.00	0.00	0.00	0.00	0.00	0.00
Voladizo Ext Izq	1	0.1750	-0.06	-0.05	-0.02	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	328.67	0.00	0.00	-0.18	-1.31	-0.30
Voladizo Ext Izq	1	0.2000	-0.26	-0.29	-0.17	0.00	-0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	385.33	0.00	0.00	-0.99	-6.17	-1.39
Voladizo Ext Izq	1	0.2250	-0.62	-0.81	-0.47	0.00	-0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	442.00	0.00	0.00	-2.64	-14.04	-3.17
Voladizo Ext Izq	1	0.2500	-1.16	-1.58	-0.82	0.00	-0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	498.67	0.00	0.00	-4.93	-22.95	-5.18
Voladizo Int Izq	2	0.2500	-1.16	-1.58	-0.82	0.00	-0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	498.67	0.00	0.00	-4.93	-22.95	-5.18
Voladizo Int Izq	2	0.3200	-1.80	-2.46	-1.13	0.00	-1.13	0.00	0.00	0.00	0.00	0.00	0.00	-2.13	0.00	-3.40	0.00	0.00	657.33	0.00	0.00	-10.84	-37.64	-8.49
Voladizo Int Izq	2	0.3900	-2.63	-3.60	-1.44	0.00	-1.44	0.00	0.00	-0.43	0.00	-0.43	0.00	-6.25	0.00	-10.01	0.00	0.00	816.00	0.00	0.00	-20.57	-56.81	-12.81
Voladizo Int Izq	2	0.4600	-3.70	-5.04	-1.74	0.00	-1.74	0.00	-1.33	-3.65	-1.33	-3.65	-0.15	-10.38	0.00	-16.61	0.00	0.00	974.67	0.00	0.00	-31.03	-71.28	-16.07
Voladizo Int Izq	2	0.5300	-5.06	-6.79	-2.05	0.00	-2.05	0.00	-5.78	-10.01	-5.78	-10.01	-2.70	-16.97	0.00	-23.22	0.00	0.00	1133.33	0.00	0.00	-42.29	-83.24	-18.77
Losa Sup Izq	3	0.5300	-3.05	-4.27	-0.98	0.65	-0.33	-0.01	-15.55	-18.27	-11.12	-10.79	-12.24	-8.12	-11.01	-11.12	-10.67	0.00	1133.33	0.00	0.00	-37.78	-74.64	-16.83
Losa Sup Izq	3	0.4775	-2.22	-3.10	-0.87	0.55	-0.32	-0.01	-9.01	-11.54	-5.34	-5.36	-5.71	-7.16	-6.92	-9.81	-8.11	0.00	1014.33	0.00	0.00	-24.96	-55.53	-12.52
Losa Sup Izq	3	0.4250	-1.55	-2.10	-0.75	0.45	-0.30	-0.01	-3.60	-6.27	-0.69	-1.40	-0.80	-6.20	-2.84	-8.49	-5.56	0.00	895.33	0.00	0.00	-14.79	-37.62	-8.48
Losa Sup Izq	3	0.3725	-1.02	-1.28	-0.63	0.35	-0.29	-0.01	0.23	-2.68	2.37	0.90	3.00	-5.24	1.25	-7.18	-3.00	2.21	776.33	6.68	1.51	-10.70	-31.55	-7.12
Losa Sup Izq	3	0.3200	-0.62	-0.62	-0.52	0.25	-0.27	-0.01	2.39	-0.76	3.77	1.52	5.15	-4.28	2.56	-5.86	-0.45	6.49	657.33	23.61	5.32	-7.94	-27.77	-6.26
Losa Sup Cent-Izq	4	0.3200	-0.62	-0.62	-0.52	0.25	-0.27	-0.01	2.39	-0.76	3.77	1.52	5.15	-4.28	2.56	-5.86	-0.45	6.49	657.33	23.61	5.32	-7.94	-27.77	-6.26
Losa Sup Cent-Izq	4	0.3275	-0.36	-0.20	-0.42	0.15	-0.27	-0.01	3.01	0.22	3.67	1.28	5.75	-3.48	3.53	-4.77	1.89	8.07	674.33	28.69	6.47	-5.92	-20.29	-4.58
Losa Sup Cent-Izq	4	0.3350	-0.18	0.09	-0.32	0.06	-0.27	-0.01	3.00	1.20	2.94	1.05	5.05	-2.68	4.50	-3.67	4.23	7.49	691.33	25.88	5.83	-4.19	-14.07	-3.17
Losa Sup Cent-Izq	4	0.3425	-0.07	0.26	-0.23	-0.04	-0.26	-0.01	2.99	2.18	2.22	0.81	3.82	-1.88	5.47	-2.58	6.57	6.76	708.33	22.70	5.12	-2.73	-8.96	-2.02
Losa Sup Cent-Izq	4	0.3500	-0.04	0.31	-0.13	-0.13	-0.26	-0.01	2.98	3.16	1.49	0.58	2.59	-1.09	4.89	-1.49	6.42	6.70	725.33	21.94	4.95	-1.51	-4.84	-1.09
Losa Sup Cent-Dch	5	0.3200	-0.62	-0.62	0.25	-0.52	-0.27	-0.01	2.39	4.80	-1.37	-0.35	-2.27	2.05	-2.02	2.81	-1.55	5.96	657.33	21.65	4.88	-5.49	-19.32	-4.36
Losa Sup Cent-Dch	5	0.3275	-0.36	-0.20	0.15	-0.42	-0.27	-0.01	3.01	5.63	-0.66	-0.12	-1.06	1.26	-0.29	1.73	0.45	7.89	674.33	28.03	6.32	-2.74	-9.47	-2.14
Losa Sup Cent-Dch	5	0.3350	-0.18	0.09	0.06	-0.32	-0.27	-0.01	3.00	5.16	0.06	0.11	0.16	0.48	1.44	0.66	2.44	7.66	691.33	26.47	5.97	-0.54	-1.83	-0.41
Losa Sup Cent-Dch	5	0.3425	-0.07	0.26	-0.04	-0.23	-0.26	-0.01	2.99	4.16	0.78	0.34	1.37	-0.30	3.16	-0.41	4.43	6.43	708.33	21.59	4.87	-0.56	-1.85	-0.42
Losa Sup Cent-Dch	5	0.3500	-0.04	0.31	-0.13	-0.13	-0.26	-0.01	2.98	3.16	1.49	0.58	2.59	-1.09	4.89	-1.49	6.42	6.70	725.33	21.94	4.95	-1.51	-4.84	-1.09
Losa Sup Dch	6	0.5300	-3.05	-4.27	0.65	-0.98	-0.33	-0.01	-15.55	-13.60	-4.44	-1.36	-7.48	5.35	-9.48	7.34	-10.20	0.02	1133.33	0.04	0.01	-33.71	-66.83	-15.07
Losa Sup Dch	6	0.4775	-2.22	-3.10	0.55	-0.87	-0.32	-0.01	-9.01	-6.82	-3.67	-1.11	-6.18	4.52	-7.61	6.21	-8.04	0.89	1014.33	2.03	0.46	-21.17	-47.29	-10.66
Losa Sup Dch	6	0.4250	-1.55	-2.10	0.45	-0.75	-0.30	-0.01	-3.60	-1.66	-2.90	-0.86	-4.88	3.70	-5.75	5.07	-5.87	1.42	895.33	3.71	0.84	-12.69	-32.39	-7.30
Losa Sup Dch	6	0.3725	-1.02	-1.28	0.35	-0.63	-0.29	-0.01	0.23	2.40	-2.14	-0.61	-3.58	2.87	-3.88	3.94	-3.71	1.64	776.33	4.96	1.12	-8.89	-26.30	-5.93
Losa Sup Dch	6	0.3200	-0.62	-0.62	0.25	-0.52	-0.27	-0.01	2.39	4.80	-1.37	-0.35	-2.27	2.05	-2.02	2.81	-1.55	5.96	657.33	21.65	4.88	-5.49	-19.32	-4.36
Voladizo Int Dch	7	0.2500	-1.16	-1.58	0.00	-0.82	-0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	498.67	0.00	0.00	-4.93	-22.95	-5.18
Voladizo Int Dch	7	0.3200	-1.80	-2.46	0.00	-1.13	-1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	657.33	0.00	0.00	-7.44	-26.05	-5.88
Voladizo Int Dch	7	0.3900	-2.63	-3.60	0.00	-1.44	-1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	816.00	0.00	0.00	-10.57	-29.66	-6.69
Voladizo Int Dch	7	0.4600	-3.70	-5.04	0.00	-1.74	-1.74	0.00	-1.33	-0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	974.67	0.00	0.00	-16.41	-38.32	-8.64
Voladizo Int Dch	7	0.5300	-5.06	-6.79	0.00	-2.05	-2.05	0.00	-5.78	-2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1133.33	0.00	0.00	-27.74	-55.27	-12.46
Voladizo Ext Dch	8	0.1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	272.00	0.00	0.00	0.00	0.00	0.00
Voladizo Ext Dch	8	0.1750	-0.06	-0.05	0.00	-0.02	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	328.67	0.00	0.00	-0.18	-1.31	-0.30
Voladizo Ext Dch	8	0.2000	-0.26	-0.29	0.00	-0.17	-0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	385.33	0.00	0.00	-0.99	-6.17	-1.39
Voladizo Ext Dch	8	0.2250	-0.62	-0.81	0.00	-0.47	-0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	442.00	0.00	0.00	-2.64	-14.04	-3.17
Voladizo Ext Dch	8	0.2500	-1.16	-1.58	0.00	-0.82	-0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	498.67	0.00	0.00	-4.93	-22.95	-5.18
Alma Dcha	9	0.4500	2.01	2.52	0.65	1.07	1.72	-0.01	-10.01	-11.01	-4.44	-1.36	-7.48	5.35	-9.48	7.34	-10.20	16.03	952.00	39.93	9.00	-11.98	-28.78	-6.49
Alma Dcha	9	0.4500	1.95	1.83	0.41	0.83	1.24	0.04	-7.25	-8.29	-3.05	-1.01	-5.12	3.40	-6.65	4.67	-7.32	11.63	952.00	28.81	6.50	-8.65	-20.88	-4.71
Alma Dcha	9	0.4500	1.89	1.14	0.18	0.59	0.77	0.09	-4.48	-5.57	-1.67	-0.65	-2.75	1.44	-3.82	1.99	-4.44	7.24	952.00	17.82	4.02	-5.33	-12.91	-2.91
Alma Dcha	9	0.4500	1.82	0.45	-0.06	0.36	0.30	0.13	-1.72	-2.85	-0.29	-0.30	-0.39	-0.51	-1.00	-0.68	-1.55	3.72	952.00	9.12	2.06	-2.00	-4.88	-1.10
Alma Dcha	9	0.4500	1.76	-0.24	-0.29	0.12	-0.17	0.18	1.05	-0.13	1.09	0.06	1.97	-2.46	1.83	-3.35	1.33	5.01	952.00	12.31	2.78	-2.09	-5.08	-1.14
Losa Inf Dch	10	0.5300	-1.76	0.24	0.29	-0.12	0.17	-0.18	-1.05	0.13	-1.09	-0.06	-1.97	2.46	-1.83	3.35	-1.33	2.09	1133.33	4.27	0.96	-5.01	-10.19	-2.30
Losa Inf Dch	10	0.4600	-1.17	0.27	0.29	-0.10	0.19	-0.13	-1.16	-0.06	-1.11	-0.08	-1.99	2.41	-1.89	3.28	-1.43	2.67	974.67	6.38	1.44	-4.19	-9.93	-2.24
Losa Inf Dch	10	0.3900	-0.62	0.30	0.28	-0.07	0.21	-0.08	-1.27	-0.26	-1.12	-0.10	-2.00	2.36	-1.95	3.21	-1.52	3.20	816.00	9.20	2.07	-3.44	-9.77	-2.20
Losa Inf Dcn	10	0.3200	-0.12	0.32	0.28	-0.05	0.23	-0.03	-1.38	-0.45	-1.13	-0.12	-2.01	2.31	-2.00	3.14	-1.62	3.69	657.33	13.32	3.00	-2.74	-9.73	-2.19
Losa Inf Dch	10	0.2500	0.35	0.35	0.27	-0.02	0.25	0.01	-1.49	-0.65	-1.15	-0.14	-2.03	2.25	-2.06	3.07	-1.72	4.39	498.67	21.39	4.82	-2.34	-11.02	-2.48
Losa Inf Cent Dch	11	0.2500	0.35	0.35	0.27	-0.02	0.25	0.01	-1.49	-0.65	-1.15	-0.14	-2.03	2.25	-2.06	3.07	-1.72	4.39	498.67	21.39	4.82	-2.34	-11.02	-2.48
Losa Inf Cent Dch	11	0.2500	1.29	0.35	0.23	0.01	0.25	0.09	-1.49	-0.85	-1.05	-0.15	-1.84	1.95	-1.92	2.66	-1.68	5.24	498.67	25.61	5.78	-1.12	-5.30	-1.20
Losa Inf Cent Dch	11	0.2500	1.96	0.35	0.20	0.05	0.25	0.15	-1.49	-1.06	-0.95	-0.17	-1.65	1.64	-1.79	2.24	-1.64	5.73	498.67	28.05	6.33	-0.17	-0.79	-0.18
Losa Inf Cent Dch	11	0.2500	2.36	0.35	0.16	0.09	0.25	0.19	-1.49	-1.26	-0.85	-0.18	-1.46	1.33	-1.66	1.82	-1.60	5.85	498.67	28.68	6.47	0.00	0.00	0.00
Losa Inf Cent Dch	11	0.2500	2.49	0.35	0.12	0.12	0.25	0.20	-1.49	-1.47	-0.75	-0.20	-1.27	1.02	-1.52	1.40	-1.56	5.61	498.67	27.48	6.20	0.00	0.00	0.00
Losa Inf Cent Izq	12	0.2500	0.35	0.35	-0.02	0.27	0.25	0.01	-1.49	-2.29	-0.35	-0.26	-0.51	-0.21	-0.99	-0.27	-1.39	1.33	498.67	6.39	1.44	-2.73	-12.82	-2.89
Losa Inf Cent Izq	12	0.2500	1.29	0.35	0.01	0.23	0.25	0.09	-1.49	-2.08	-0.45	-0.24	-0.70	0.10	-1.12	0.15	-1.43	2.73	498.67	13.19	2.98	-1.48	-7.02	-1.58
Losa Inf Cent Izq	12	0.2500	1.96	0.35	0.05	0.20	0.25	0.15	-1.49	-1.88	-0.55	-0.23	-0.89	0.41	-1.25	0.57	-1.48	4.05	498.67	19.69	4.44	-0.51	-2.41	-0.54
Losa Inf Cent Izq	12	0.2500	2.36	0.35	0.09	0.16	0.25	0.19	-1.49	-1.67	-0.65	-0.21	-1.08	0.72	-1.39	0.98	-1.52	5.01	498.67	24.47	5.52	0.00	0.00	0.00
Losa Inf Cent Izq	12	0.2500	2.49	0.35	0.12	0.12	0.25	0.20	-1.49	-1.47	-0.75	-0.20	-1.27	1.02	-1.52	1.40	-1.56	5.61	498.67	27.48	6.20	0.00	0.00	0.00
Losa Inf Izq	13	0.5300	-1.76	0.24	-0.12	0.29	0.17	-0.18	-1.05	-2.20	0.05	-0.23	0.19	-1.04	-0.30	-1.40	-0.86	0.00	1133.33	0.00	0.00	-5.35	-10.87	-2.45
Losa Inf Izq	13	0.4600	-1.17	0.27	-0.10	0.29	0.19	-0.13	-1.16	-2.22	-0.05	-0.23	0.02	-0.83	-0.48	-1.12	-0.99	0.00	974.67	0.00	0.00	-4.55	-10.76	-2.43
Losa Inf Izq	13	0.3900	-0.62	0.30	-0.07	0.28	0.21	-0.08	-1.27	-2.24	-0.15	-0.24	-0.16	-0.62	-0.65	-0.84	-1.13	0.00	816.00	0.00	0.00	-3.80	-10.80	-2.43
Losa Inf Izq	13	0.3200	-0.12	0.32	-0.05	0.28	0.23	-0.03	-1.38	-2.27	-0.25	-0.25	-0.33	-0.41	-0.82	-0.55	-1.26	0.55	657.33	1.97	0.44	-3.12	-11.05	-2.49
Losa Inf Izq	13	0.2500	0.35	0.35	-0.02	0.27	0.25	0.01	-1.49	-2.29	-0.35	-0.26	-0.51	-0.21	-0.99	-0.27	-1.39	1.33	498.67	6.39	1.44	-2.73	-12.82	-2.89
Alma Izq	14	0.4500	-2.01	-2.52	-1.07	-0.65	-1.72	0.01	10.01	8.67	5.58	1.19	9.64	-8.85	11.01	-12.09	10.67	10.49	952.00	25.94	5.85	-20.78	-49.41	-11.14
Alma Izq	14	0.4500	-1.95	-1.83	-0.83	-0.41	-1.24	-0.04	7.25	5.96	4.19	0.84	7.28	-6.90	8.18	-9.42	7.78	7.14	952.00	17.58	3.96	-16.39	-39.17	-8.83
Alma Izq	14	0.4500	-1.89	-1.14	-0.59	-0.18	-0.77	-0.09	4.48	3.24	2.81	0.48	4.92	-4.94	5.35	-6.75	4.90	4.35	952.00	10.67	2.41	-11.99	-28.81	-6.50
Alma Izq	14	0.4500	-1.82	-0.45	-0.36	0.06	-0.30	-0.13	1.72	0.52	1.43	0.13	2.55	-2.99	2.52	-4.08	2.02	1.56	952.00	3.80	0.86	-7.60	-18.35	-4.14
Alma Izq	14	0.4500	-1.76	0.24	-0.12	0.29	0.17	-0.18	-1.05	-2.20	0.05	-0.23	0.19	-1.04	-0.30	-1.40	-0.86	0.00	952.00	0.00	0.00	-5.35	-12.97	-2.92

ESFUERZOS DE FLEXIÓN DE LA SECCIÓN TRANSVERSAL AUTOCOMPENSADA

CARACTERISTICAS DE LA SECCION

fck	400
fyk	5100
COEF. IMPACTO VOLADIZO	1.67
COEF. IMPACTO VANO INT	1.6

SECCIÓN	BARRA	CANTO	1-CORR	2-CORR	8-CORR	9-CORR	PASEOS	10-CORR	3-CORR	4-CORR	5-CORR	6-CORR	7-CORR	11-CORR	12-CORR	13-CORR	14-CORR	ENVOLVENTES DE FLEXIÓN M+	Uo	Us1 +	As+ (cm2)	M-	Us1 -	As- (cm2)
Voladizo Ext Izq	1	0 1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	272.00	0.00	0.00	0.00	0.00	0.00
Voladizo Ext Izq	1	0.1750	-0.06	-0.05	-0.02	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	328.67	0.00	0.00	-0.18	-1.31	-0.30
Voladizo Ext Izq	1	0.2000	-0.26	-0.29	-0.17	0.00	-0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	385.33	0.00	0.00	-0.99	-6.17	-1.39
Voladizo Ext Izq	1	0.2250	-0.62	-0.81	-0.47	0.00	-0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	442.00	0.00	0.00	-2.64	-14.04	-3.17
Voladizo Ext Izq	1	0.2500	-1.16	-1.58	-0.82	0.00	-0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	498.67	0.00	0.00	-4.93	-22.95	-5.18
Voladizo Int Izq	2	0.2500	-1.16	-1.58	-0.82	0.00	-0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	498.67	0.00	0.00	-4.93	-22.95	-5.18
Voladizo Int Izq	2	0.3200	-1.80	-2.46	-1.13	0.00	-1.13	0.00	0.00	0.00	0.00	0.00	0.00	-2.13	0.00	-3.40	0.00	0.00	657.33	0.00	0.00	-10.84	-37.64	-8.49
Voladizo Int Izq	2	0.3900	-2.63	-3.60	-1.44	0.00	-1.44	0.00	0.00	-0.43	0.00	-0.43	0.00	-6.25	0.00	-10.01	0.00	0.00	816.00	0.00	0.00	-20.57	-58.81	-12.81
Voladizo Int Izq	2	0.4600	-3.70	-5.04	-1.74	0.00	-1.74	0.00	-1.33	-3.65	-1.33	-3.65	-0.15	-10.38	0.00	-16.61	0.00	0.00	974.67	0.00	0.00	-31.03	-71.26	-16.07
Voladizo Int Izq	2	0.5300	-5.06	-6.79	-2.05	0.00	-2.05	0.00	-5.78	-10.01	-5.78	-10.01	-2.70	-16.97	0.00	-23.22	0.00	0.00	1133.33	0.00	0.00	-42.29	-83.24	-18.77
Losa Sup Izq	3	0.5300	-3.05	-4.27	-0.51	0.18	-0.33	-0.01	-15.55	-15.86	-1.67	-0.14	-4.00	-0.17	-9.10	-3.55	-10.36	0.00	1133.33	0.00	0.00	-34.16	-67.70	-15.27
Losa Sup Izq	3	0.4775	-2.22	-3.10	-0.45	0.13	-0.32	-0.01	-9.01	-9.42	2.94	3.97	1.51	-0.19	-5.25	-3.17	-7.84	0.64	1014.33	1.47	0.33	-21.79	-48.64	-10.97
Losa Sup Izq	3	0.4250	-1.55	-2.10	-0.39	0.09	-0.30	-0.01	-3.60	-4.46	6.40	6.60	5.38	-0.23	-1.40	-2.81	-5.32	6.25	895.33	16.38	3.69	-12.07	-30.83	-6.95
Losa Sup Izq	3	0.3725	-1.02	-1.28	-0.34	0.05	-0.29	-0.01	0.23	-1.18	8.25	7.52	8.13	-0.29	2.44	-2.46	-2.81	10.08	776.33	30.94	6.98	-6.33	-18.82	-4.24
Losa Sup Izq	3	0.3200	-0.62	-0.62	-0.28	0.02	-0.27	-0.01	2.39	0.43	8.41	6.76	9.21	-0.37	3.50	-2.13	-0.29	12.57	657.33	46.55	10.50	-4.21	-14.88	-3.35
Losa Sup Cent-Izq	4	0.3200	-0.62	-0.62	-0.28	0.02	-0.27	-0.01	2.39	0.43	8.41	6.76	9.21	-0.37	3.50	-2.13	-0.29	12.57	657.33	46.55	10.50	-4.21	-14.88	-3.35
Losa Sup Cent-Izq	4	0.3275	-0.36	-0.20	-0.25	-0.02	-0.27	-0.01	3.01	1.12	7.16	5.22	8.80	-0.54	4.23	-1.97	2.01	12.64	674.33	45.49	10.26	-3.12	-10.78	-2.43
Losa Sup Cent-Izq	4	0.3350	-0.18	0.09	-0.21	-0.06	-0.27	-0.01	3.00	1.80	5.27	3.67	7.08	-0.72	4.97	-1.81	4.31	10.54	691.33	36.69	8.27	-2.33	-7.84	-1.77
Losa Sup Cent-Izq	4	0.3425	-0.07	0.26	-0.17	-0.09	-0.26	-0.01	2.99	2.48	3.38	2.13	4.84	-0.90	5.71	-1.65	6.61	7.44	708.33	25.04	5.65	-1.79	-5.90	-1.33
Losa Sup Cent-Izq	4	0.3500	-0.04	0.31	-0.13	-0.13	-0.26	-0.01	2.98	3.16	1.49	0.58	2.59	-1.09	4.89	-1.49	6.42	6.70	725.33	21.94	4.95	-1.51	-4.84	-1.09
Losa Sup Cent-Dch	5	0.3200	-0.62	-0.62	0.02	-0.28	-0.27	-0.01	2.39	3.61	-6.02	-5.59	-6.33	-1.87	-2.96	-0.92	-1.70	4.18	657.33	15.11	3.41	-11.57	-40.10	-9.04
Losa Sup Cent-Dch	5	0.3275	-0.36	-0.20	-0.02	-0.25	-0.27	-0.01	3.01	4.74	-4.14	-4.05	-4.10	-1.67	-1.00	-1.06	0.33	6.56	674.33	23.20	5.23	-7.37	-25.17	-5.68
Losa Sup Cent-Dch	5	0.3350	-0.18	0.09	-0.06	-0.21	-0.27	-0.01	3.00	4.57	-2.27	-2.51	-1.87	-1.48	0.96	-1.21	2.36	6.77	691.33	23.33	5.26	-4.28	-14.38	-3.24
Losa Sup Cent-Dch	5	0.3425	-0.07	0.26	-0.09	-0.17	-0.26	-0.01	2.99	3.87	-0.39	-0.97	0.36	-1.28	2.93	-1.35	4.39	5.99	708.33	20.07	4.53	-1.60	-5.27	-1.19
Losa Sup Cent-Dch	5	0.3500	0.04	0.31	-0.13	-0.13	-0.26	-0.01	2.98	3.16	1.49	0.58	2.59	-1.09	4.89	-1.49	6.42	6.70	725.33	21.94	4.95	-1.51	-4.84	-1.09
Losa Sup Dch	6	0.5300	-3.05	-4.27	0.18	-0.51	-0.33	-0.01	-15.55	-16.01	-13.88	-12.01	-15.72	-2.60	-11.39	-0.24	-10.51	0.00	1133.33	0.00	0.00	-34.39	-68.14	-15.37
Losa Sup Dch	6	0.4775	-2.22	-3.10	0.13	-0.45	-0.32	-0.01	-9.01	-8.93	-11.95	-10.44	-13.40	-2.44	-9.29	-0.43	-8.31	0.00	1014.33	0.00	0.00	-27.75	-61.56	-13.88
Losa Sup Dch	6	0.4250	-1.55	-2.10	0.09	-0.39	-0.30	-0.01	-3.60	-3.47	-9.99	-8.85	-11.06	-2.27	-7.18	-0.61	-6.11	0.00	895.33	0.00	0.00	-21.97	-55.35	-12.48
Losa Sup Dch	6	0.3725	-1.02	-1.28	0.05	-0.34	-0.29	-0.01	0.23	0.90	-8.02	-7.23	-8.70	-2.08	-5.07	-0.77	-3.90	0.00	776.33	0.00	0.00	-16.58	-48.37	-10.91
Losa Sup Dch	6	0.3200	-0.62	-0.62	0.02	-0.28	-0.27	-0.01	2.39	3.61	-6.02	-5.59	-6.33	-1.87	-2.96	-0.92	-1.70	4.18	657.33	15.11	3.41	-11.57	-40.10	-9.04
Voladizo Int Dch	7	0.2500	-1.16	-1.58	0.00	-0.82	-0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	498.67	0.00	0.00	-4.93	-22.95	-5.18
Voladizo Int Dch	7	0.3200	-1.80	-2.46	0.00	-1.13	-1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	657.33	0.00	0.00	-7.44	-26.05	-5.88
Voladizo Int Dch	7	0.3900	-2.63	-3.60	0.00	-1.44	-1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	816.00	0.00	0.00	-10.57	-29.66	-6.69
Voladizo Int Dch	7	0.4600	-3.70	-5.04	0.00	-1.74	-1.74	0.00	-1.33	-0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	974.67	0.00	0.00	-16.41	-38.32	-8.64
Voladizo Int Dch	7	0.5300	-5.06	-6.79	0.00	-2.05	-2.05	0.00	-5.78	-2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1133.33	0.00	0.00	-27.74	-55.27	-12.46
Voladizo Ext Dch	8	0.1500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	272.00	0.00	0.00	0.00	0.00	0.00
Voladizo Ext Dch	8	0.1750	-0.06	-0.05	0.00	-0.02	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	328.67	0.00	0.00	-0.18	-1.31	-0.30
Voladizo Ext Dch	8	0.2000	-0.26	-0.29	0.00	-0.17	-0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	385.33	0.00	0.00	-0.99	-6.17	-1.39
Voladizo Ext Dch	8	0.2250	-0.62	-0.81	0.00	-0.47	-0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	442.00	0.00	0.00	-2.64	-14.04	-3.17
Voladizo Ext Dch	8	0.2500	-1.16	-1.58	0.00	-0.82	-0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	498.67	0.00	0.00	-4.93	-22.95	-5.18
Alma Dcha	9	0.4500	2.01	2.52	0.18	1.54	1.72	-0.01	-10.01	-13.42	-13.88	-12.01	-15.72	-2.60	-11.39	-0.24	-10.51	8.69	952.00	21.44	4.83	-19.04	-45.37	-10.23
Alma Dcha	9	0.4500	1.95	1.83	0.18	1.07	1.24	0.04	-7.25	-9.50	-7.79	-6.35	-9.25	-0.59	-7.61	0.87	-7.47	7.83	952.00	19.30	4.35	-10.47	-25.20	-5.68
Alma Dcha	9	0.4500	1.89	1.14	0.18	0.60	0.77	0.09	-4.48	-5.58	-1.70	-0.68	-2.78	1.42	-3.83	1.97	-4.44	7.21	952.00	17.76	4.01	-5.34	-12.94	-2.92
Alma Dcha	9	0.4500	1.82	0.45	0.18	0.12	0.30	0.13	-1.72	-1.66	4.39	4.98	3.69	3.43	-0.05	3.07	-1.40	10.99	952.00	27.19	6.13	-0.30	-0.74	-0.17
Alma Dcha	9	0.4500	1.76	-0.24	0.18	-0.35	-0.17	0.18	1.05	2.26	10.48	10.64	10.16	5.44	3.73	4.18	1.64	18.02	952.00	45.01	10.15	0.00	0.00	0.00
Losa Inf Dch	10	0.5300	-1.76	0.24	-0.18	0.35	0.17	-0.18	-1.05	-2.26	-10.48	-10.64	-10.16	-5.44	-3.73	-4.18	-1.64	0.00	1133.33	0.00	0.00	-18.02	-36.19	-8.16
Losa Inf Dch	10	0.4600	-1.17	0.27	-0.15	0.34	0.19	-0.13	-1.16	-2.31	-9.93	-10.03	-9.68	-5.02	-3.67	-3.80	-1.72	0.00	974.67	0.00	0.00	-16.25	-37.98	-8.56
Losa Inf Dch	10	0.3900	-0.62	0.30	-0.13	0.34	0.21	-0.08	-1.27	-2.36	-9.37	-9.40	-9.19	-4.58	-3.61	-3.40	-1.80	0.00	816.00	0.00	0.00	-14.53	-40.52	-9.14
Losa Inf Dch	10	0.3200	-0.12	0.32	-0.11	0.34	0.23	-0.03	-1.38	-2.41	-8.79	-8.75	-8.69	-4.14	-3.55	-3.00	-1.88	0.55	657.33	1.97	0.44	-12.91	-44.58	-10.05
Losa Inf Dch	10	0.2500	0.35	0.35	-0.08	0.33	0.25	0.01	-1.49	-2.45	-8.20	-8.09	-8.18	-3.68	-3.48	-2.58	-1.95	1.33	498.67	6.39	1.44	-11.59	-52.44	-11.83
Losa Inf Cent Dch	11	0.2500	0.35	0.35	-0.08	0.33	0.25	0.01	-1.49	-2.45	-8.20	-8.09	-8.18	-3.68	-3.48	-2.58	-1.95	1.33	498.67	6.39	1.44	-11.59	-52.44	-11.83
Losa Inf Cent Dch	11	0.2500	1.29	0.35	-0.03	0.28	0.25	0.09	-1.49	-2.20	-6.33	-6.12	-6.45	-2.50	-2.99	-1.59	-1.85	2.72	498.67	13.13	2.96	-8.04	-36.90	-8.32
Losa Inf Cent Dch	11	0.2500	1.96	0.35	0.02	0.23	0.25	0.15	-1.49	-1.96	-4.47	-4.14	-4.72	-1.33	-2.50	-0.59	-1.76	3.71	498.67	18.01	4.06	-4.78	-22.25	-5.02
Losa Inf Cent Dch	11	0.2500	2.36	0.35	0.07	0.18	0.25	0.19	-1.49	-1.71	-2.61	-2.17	-3.00	-0.15	-2.01	0.41	-1.66	4.43	498.67	21.59	4.87	-1.79	-8.43	-1.90
Losa Inf Cent Dch	11	0.2500	2.49	0.35	0.12	0.12	0.25	0.20	-1.49	-1.47	-0.75	-0.20	-1.27	1.02	-1.52	1.40	-1.56	5.61	498.67	27.48	6.20	0.00	0.00	0.00
Losa Inf Cent Izq	12	0.2500	0.35	0.35	0.33	-0.08	0.25	0.01	-1.49	-0.49	6.71	7.69	5.64	5.73	0.44	5.38	-1.16	12.86	498.67	65.52	14.77	-1.53	-7.24	-1.63
Losa Inf Cent Izq	12	0.2500	1.29	0.35	0.28	-0.03	0.25	0.09	-1.49	-0.73	4.84	5.72	3.91	4.55	-0.05	4.39	-1.26	11.16	498.67	56.33	12.70	-0.60	-2.83	-0.64
Losa Inf Cent Izq	12	0.2500	1.96	0.35	0.23	0.02	0.25	0.15	-1.49	-0.98	2.98	3.74	2.18	3.38	-0.54	3.39	-1.36	9.10	498.67	45.43	10.24	0.00	0.00	0.00
Losa Inf Cent Izq	12	0.2500	2.36	0.35	0.18	0.07	0.25	0.19	-1.49	-1.22	1.12	1.77	0.46	2.20	-1.03	2.40	-1.46	6.69	498.67	32.94	7.43	0.00	0.00	0.00
Losa Inf Cent Izq	12	0.2500	2.49	0.35	0.12	0.12	0.25	0.20	-1.49	-1.47	-0.75	-0.20	-1.27	1.02	-1.52	1.40	-1.56	5.61	498.67	27.48	6.20	0.00	0.00	0.00
Losa Inf Izq	13	0.5300	-1.76	0.24	0.35	-0.18	0.17	-0.18	-1.05	0.20	9.44	10.36	8.38	6.87	1.59	6.13	-0.55	14.28	1133.33	29.52	6.66	-3.63	-7.38	-1.66
Losa Inf Izq	13	0.4600	-1.17	0.27	0.34	-0.15	0.19	-0.13	-1.16	0.03	8.78	9.72	7.71	6.60	1.31	5.96	-0.70	13.96	974.67	33.83	7.63	-2.95	-7.00	-1.58
Losa Inf Izq	13	0.3900	-0.62	0.30	0.34	-0.13	0.21	-0.08	-1.27	-0.14	8.10	9.06	7.03	6.32	1.02	5.78	-0.86	13.57	816.00	39.75	8.96	-2.34	-6.67	-1.50
Losa Inf Izq	13	0.3200	-0.12	0.32	0.34	-0.11	0.23	-0.03	-1.38	-0.31	7.41	8.38	6.34	6.03	0.73	5.59	-1.01	13.12	657.33	48.66	10.97	-1.79	-6.37	-1.44
Losa Inf Izq	13	0.2500	0.35	0.35	0.33	-0.08	0.25	0.01	-1.49	-0.49	6.71	7.69	5.64	5.73	0.44	5.38	-1.16	12.86	498.67	65.52	14.77	-1.53	-7.24	-1.63
Alma Izq	14	0.4500	-2.01	-2.52	-1.54	-0.18	-1.72	0.01	10.01	6.26	-3.87	-9.46	1.41	-16.80	9.10	-19.67	10.36	10.49	952.00	25.94	5.85	-28.36	-66.82	-15.07
Alma Izq	14	0.4500	-1.95	-1.83	-1.07	-0.18	-1.24	-0.04	7.25	4.75	-0.54	-4.50	3.15	-10.88	7.22	-13.22	7.63	7.09	952.00	17.46	3.94	-20.19	-48.02	-10.83
Alma Izq	14	0.4500	-1.89	-1.14	-0.60	-0.18	-0.77	-0.09	4.48	3.23	2.78	0.45	4.89	-4.97	5.35	-6.77	4.90	4.31	952.00	10.58	2.39	-12.01	-28.86	-6.51
Alma Izq	14	0.4500	-1.82	-0.45	-0.12	-0.18	-0.30	-0.13	1.72	1.71	6.11	5.41	6.64	0.95	3.47	-0.32	2.17	7.68	952.00	18.92	4.27	-3.84	-9.33	-2.10
Alma Izq	14	0.4500	-1.76	0.24	0.35	-0.18	0.17	-0.18	-1.05	0.20	9.44	10.36	8.38	6.87	1.59	6.13	-0.55	14.28	952.00	35.48	8.00	-3.63	-8.81	-1.99

ESFUERZOS DE FLEXIÓN DE LA SECCIÓN TRANSVERSAL APOYADA

CARACTERISTICAS DE LA SECCION - ENVOLVENTE ENTRE SECCIÓN APOYADA Y SECCIÓN AUTOCOMPENSADA

fck	400
fyk	5100
COEF. IMPACTO VOLADIZO	1.67
COEF. IMPACTO VANO INT	1.6

SECCIÓN	BARRA	CANTO	Uo	M max env.	Us1	As+ (cm2)	Armado orientativo	M min env.	Us1-	As- (cm2)	Armado orientativo
Voladizo Ext Izq	1	0.1500	272.00	0.00	0.00	0.00	ø10 a 20	0.00	0.00	0.00	ø10 a 20
Voladizo Ext Izq	1	0.1750	328.67	0.00	0.00	0.00	ø10 a 20	-0.18	-1.31	-0.30	ø10 a 20
Voladizo Ext Izq	1	0.2000	385.33	0.00	0.00	0.00	ø10 a 20	-0.99	-6.17	-1.39	ø10 a 20
Voladizo Ext Izq	1	0.2250	442.00	0.00	0.00	0.00	ø10 a 20	-2.64	-14.04	-3.17	ø10 a 20
Voladizo Ext Izq	1	0.2500	498.67	0.00	0.00	0.00	ø10 a 20	-4.93	-22.95	-5.18	ø12 a 20
Voladizo Int Izq	2	0.2500	498.67	0.00	0.00	0.00	ø10 a 20	-4.93	-22.95	-5.18	ø12 a 20
Voladizo Int Izq	2	0.3200	657.33	0.00	0.00	0.00	ø10 a 20	-10.84	-37.64	-8.49	ø16 a 20
Voladizo Int Izq	2	0.3900	816.00	0.00	0.00	0.00	ø10 a 20	-20.57	-56.81	-12.81	ø16 a 40+ø20 a 40
Voladizo Int Izq	2	0.4600	974.67	0.00	0.00	0.00	ø10 a 20	-31.03	-71.28	-16.07	ø20 a 40+ø25 a 40
Voladizo Int Izq	2	0.5300	1133.33	0.00	0.00	0.00	ø10 a 20	-42.29	-83.24	-18.77	ø20 a 40+ø25 a 40
Losa Sup Izq	3	0.5300	1133.33	0.00	0.00	0.00	ø10 a 20	-37.78	-74.64	-16.83	ø20 a 40+ø25 a 40
Losa Sup Izq	3	0.4775	1014.33	0.64	1.47	0.33	ø10 a 20	-24.96	-55.53	-12.52	ø16 a 40+ø20 a 40
Losa Sup Izq	3	0.4250	895.33	6.25	16.38	3.69	ø10 a 20	-14.79	-37.62	-8.48	ø16 a 20
Losa Sup Izq	3	0.3725	776.33	10.08	30.94	6.98	ø12 a 40+ø16 a 40	-10.70	-31.55	-7.12	ø12 a 40+ø16 a 40
Losa Sup Izq	3	0.3200	657.33	12.57	46.55	10.50	ø16 a 40+ø20 a 40	-7.94	-27.77	-6.26	ø12 a 40+ø16 a 40
Losa Sup Cent-Izq	4	0.3200	657.33	12.57	46.55	10.50	ø16 a 40+ø20 a 40	-7.94	-27.77	-6.26	ø12 a 40+ø16 a 40
Losa Sup Cent-Izq	4	0.3275	674.33	12.64	45.49	10.26	ø16 a 40+ø20 a 40	-5.92	-20.29	-4.58	ø12 a 20
Losa Sup Cent-Izq	4	0.3350	691.33	10.54	36.69	8.27	ø16 a 20	-4.19	-14.07	-3.17	ø10 a 20
Losa Sup Cent-Izq	4	0.3425	708.33	7.44	25.04	5.65	ø12 a 20	-2.73	-8.96	-2.02	ø10 a 20
Losa Sup Cent-Izq	4	0.3500	725.33	6.70	21.94	4.95	ø12 a 20	-1.51	-4.84	-1.09	ø10 a 20
Losa Sup Cent-Dch	5	0.3200	657.33	5.96	21.65	4.88	ø12 a 20	-11.57	-40.10	-9.04	ø16 a 20
Losa Sup Cent-Dch	5	0.3275	674.33	7.89	28.03	6.32	ø12 a 40+ø16 a 40	-7.37	-25.17	-5.68	ø12 a 40+ø16 a 40
Losa Sup Cent-Dch	5	0.3350	691.33	7.66	26.47	5.97	ø12 a 40+ø16 a 40	-4.29	-14.38	-3.24	ø10 a 20
Losa Sup Cent-Dch	5	0.3425	708.33	6.43	21.59	4.87	ø12 a 20	-1.60	-5.27	-1.19	ø10 a 20
Losa Sup Cent-Dch	5	0.3500	725.33	6.70	21.94	4.95	ø12 a 20	-1.51	-4.84	-1.09	ø10 a 20
Losa Sup Dch	6	0.5300	1133.33	0.02	0.04	0.01	ø10 a 20	-34.39	-68.14	-15.37	ø20 a 20
Losa Sup Dch	6	0.4775	1014.33	0.89	2.03	0.46	ø10 a 20	-27.75	-61.56	-13.88	ø20 a 20
Losa Sup Dch	6	0.4250	895.33	1.42	3.71	0.84	ø10 a 20	-21.97	-55.35	-12.48	ø16 a 40+ø20 a 40
Losa Sup Dch	6	0.3725	776.33	1.64	4.96	1.12	ø10 a 20	-16.58	-48.37	-10.91	ø16 a 40+ø20 a 40
Losa Sup Dch	6	0.3200	657.33	5.96	21.65	4.88	ø12 a 20	-11.57	-40.10	-9.04	ø16 a 20
Voladizo Int Dch	7	0.2500	498.67	0.00	0.00	0.00	ø10 a 20	-4.93	-22.95	-5.18	ø12 a 20
Voladizo Int Dch	7	0.3200	657.33	0.00	0.00	0.00	ø10 a 20	-7.44	-26.05	-5.88	ø12 a 40+ø16 a 40
Voladizo Int Dch	7	0.3900	816.00	0.00	0.00	0.00	ø10 a 20	-10.57	-29.66	-6.69	ø12 a 40+ø16 a 40
Voladizo Int Dch	7	0.4600	974.67	0.00	0.00	0.00	ø10 a 20	-16.41	-38.32	-8.64	ø16 a 20
Voladizo Int Dch	7	0.5300	1133.33	0.00	0.00	0.00	ø10 a 20	-27.74	-55.27	-12.46	ø16 a 40+ø20 a 40
Voladizo Ext Dch	8	0.1500	272.00	0.00	0.00	0.00	ø10 a 20	0.00	0.00	0.00	ø10 a 20
Voladizo Ext Dch	8	0.1750	328.67	0.00	0.00	0.00	ø10 a 20	-0.18	-1.31	-0.30	ø10 a 20
Voladizo Ext Dch	8	0.2000	385.33	0.00	0.00	0.00	ø10 a 20	-0.99	-6.17	-1.39	ø10 a 20
Voladizo Ext Dch	8	0.2250	442.00	0.00	0.00	0.00	ø10 a 20	-2.64	-14.04	-3.17	ø10 a 20
Voladizo Ext Dch	8	0.2500	498.67	0.00	0.00	0.00	ø10 a 20	-4.93	-22.95	-5.18	ø12 a 20
Alma Dcha	9	0.4500	952.00	16.03	39.93	9.00	ø16 a 20	-19.04	-45.37	-10.23	ø16 a 40+ø20 a 40
Alma Dcha	9	0.4500	952.00	11.63	28.81	6.50	ø12 a 40+ø16 a 40	-10.47	-25.20	-5.68	ø12 a 40+ø16 a 40
Alma Dcha	9	0.4500	952.00	7.24	17.82	4.02	ø12 a 20	-5.34	-12.94	-2.92	ø10 a 20
Alma Dcha	9	0.4500	952.00	10.99	27.19	6.13	ø12 a 40+ø16 a 40	-2.00	-4.88	-1.10	ø10 a 20
Alma Dcha	9	0.4500	952.00	18.02	45.01	10.15	ø16 a 40+ø20 a 40	-2.09	-5.08	-1.14	ø10 a 20
Losa Inf Dch	10	0.5300	1133.33	2.09	4.27	0.96	ø10 a 20	-18.02	-36.19	-8.16	ø16 a 20
Losa Inf Dch	10	0.4600	974.67	2.67	6.38	1.44	ø10 a 20	-16.25	-37.96	-8.56	ø16 a 20
Losa Inf Dch	10	0.3900	816.00	3.20	9.20	2.07	ø10 a 20	-14.53	-40.52	-9.14	ø16 a 20
Losa Inf Dch	10	0.3200	657.33	3.69	13.32	3.00	ø10 a 20	-12.91	-44.58	-10.05	ø16 a 20
Losa Inf Dch	10	0.2500	498.67	4.39	21.39	4.82	ø12 a 20	-11.59	-52.44	-11.83	ø16 a 40+ø20 a 40
Losa Inf Cent Dch	11	0.2500	498.67	4.39	21.39	4.82	ø12 a 20	-11.59	-52.44	-11.83	ø16 a 40+ø20 a 40
Losa Inf Cent Dch	11	0.2500	498.67	5.24	25.61	5.78	ø12 a 40+ø16 a 40	-8.04	-36.90	-8.32	ø16 a 20
Losa Inf Cent Dch	11	0.2500	498.67	5.73	28.05	6.33	ø12 a 40+ø16 a 40	-4.78	-22.25	-5.02	ø12 a 20
Losa Inf Cent Dch	11	0.2500	498.67	5.85	28.68	6.47	ø12 a 40+ø16 a 40	-1.79	-8.43	-1.90	ø10 a 20
Losa Inf Cent Dch	11	0.2500	498.67	5.61	27.48	6.20	ø12 a 40+ø16 a 40	0.00	0.00	0.00	ø10 a 20
Losa Inf Cent Izq	12	0.2500	498.67	12.86	65.52	14.77	ø20 a 20	-2.73	-12.82	-2.89	ø10 a 20
Losa Inf Cent Izq	12	0.2500	498.67	11.16	56.33	12.70	ø16 a 40+ø20 a 40	-1.48	-7.02	-1.58	ø10 a 20
Losa Inf Cent Izq	12	0.2500	498.67	9.10	45.43	10.24	ø16 a 40+ø20 a 40	-0.51	-2.41	-0.54	ø10 a 20
Losa Inf Cent Izq	12	0.2500	498.67	6.69	32.94	7.43	ø12 a 40+ø16 a 40	0.00	0.00	0.00	ø10 a 20
Losa Inf Cent Izq	12	0.2500	498.67	5.61	27.48	6.20	ø12 a 40+ø16 a 40	0.00	0.00	0.00	ø10 a 20
Losa Inf Izq	13	0.5300	1133.33	14.28	29.52	6.66	ø12 a 40+ø16 a 40	-5.35	-10.87	-2.45	ø10 a 20
Losa Inf Izq	13	0.4600	974.67	13.96	33.83	7.63	ø12 a 40+ø16 a 40	-4.55	-10.76	-2.43	ø10 a 20
Losa Inf Izq	13	0.3900	816.00	13.57	39.75	8.96	ø16 a 20	-3.80	-10.80	-2.43	ø10 a 20
Losa Inf Izq	13	0.3200	657.33	13.12	48.66	10.97	ø16 a 40+ø20 a 40	-3.12	-11.05	-2.49	ø10 a 20
Losa Inf Izq	13	0.2500	498.67	12.86	65.52	14.77	ø20 a 20	-2.73	-12.82	-2.89	ø10 a 20
Alma Izq	14	0.4500	952.00	10.49	25.94	5.85	ø12 a 40+ø16 a 40	-28.36	-66.82	-15.07	ø20 a 20
Alma Izq	14	0.4500	952.00	7.14	17.58	3.96	ø12 a 20	-20.19	-48.02	-10.83	ø16 a 40+ø20 a 40
Alma Izq	14	0.4500	952.00	4.35	10.67	2.41	ø10 a 20	-12.01	-28.86	-6.51	ø12 a 40+ø16 a 40
Alma Izq	14	0.4500	952.00	7.68	18.92	4.27	ø12 a 20	-7.60	-18.35	-4.14	ø12 a 20
Alma Izq	14	0.4500	952.00	14.28	35.48	8.00	ø16 a 20	-5.35	-12.97	-2.92	ø10 a 20

2.5.2. Armadura de E.L.U. de esfuerzos tangenciales

E.L.U. A CORTANTE

COMPROBACIÓN $\left[\begin{array}{l} V_{rd} \leq V_{u1} \\ V_{rd} \leq V_{u2} \end{array}\right\} \theta = \theta_e \rightarrow \cot g\,\theta = 1'46$

A) $V_{u1} = K \cdot f_{1cd} \cdot b_o\, d\, \dfrac{\cot g\,\theta + \cot g\,\alpha}{1 + \cot g^2 \theta}$

$f_{1cd} = 0'6 \cdot f_{cd} = 0'6 \cdot \dfrac{40}{1'5} = 16\ MPa \simeq 1600\ t/m^2$

$K = \dfrac{5}{3}\left(1 + \dfrac{\sigma'_{cd}}{f_{cd}}\right) \not> 1'00 \rightarrow K = \dfrac{5}{3}\left(1 - \dfrac{4}{40'15}\right) = 1'4 \rightarrow 1$

$V_{u1} = 1600\,(2 \cdot 0'45) \cdot 3'875\ \dfrac{1'46}{1+1'46^2} = \underline{2601'48\ ton}$

$\cot g\,\theta_e = \sqrt{1 - \dfrac{\sigma_{xd}}{f_{ctm}}} = \sqrt{1 + \dfrac{4}{3'5}} = 1'46$

$f_{ctm} = 0'30 \sqrt[3]{f_{ck}^2} = 3'5$

B) $V_{u2} = V_{cu} + V_{su}$

$V_{cu} = \left[0'10 \cdot \xi\,(100\,\rho_1 \cdot f_{ck})^{1/3} - 0'15\,\sigma'_{cd}\right] b_o\, d\, \beta$

$\xi = 1 + \sqrt{\dfrac{200}{d}} = 1 + \sqrt{\dfrac{200}{3875}} = 1'727$

$\rho_1 = \dfrac{A_s + A_p \cdot \frac{f_{yp}}{f_{yd}}}{b_o\, d} \not> 0'02$ $\quad$ A_p que trabaja a cortante $\simeq 5\%\, A_p$

$\rho_1 = \dfrac{67'8 + 114 \cdot 264}{90 \cdot 387'5} = 0'0138$

$A_s = 60 \cdot 1'13 = 67'8\ cm^2 = 60\ \phi 12$

$A_p = 1'50 \cdot 19\,4 = 114\ cm^2$

$f_{yp} = 190.000\ \frac{t}{m^2} \cdot \frac{0'9}{1'15} = 148\,695'6\ t/m^2$

$f_{yd} = 400.000\ \frac{t}{m^2} \cdot \frac{0'9}{1'15} = 40\,816'3\ t/m^2$

$\beta = 1$

$V_{cu} = \left[0'10 \cdot 1'727\ (100 \cdot 0'0138 \cdot 40)^{1/3} + 0'15 \cdot 4\right] 900 \cdot 3875 \cdot 1 = 3'721\ MN$

$V_{cu} = 3'721 \cdot 10^6\ N \cdot \dfrac{1\ kg}{9'8\ N} \cdot \dfrac{1\ ton}{10^3\ kg} = \underline{379'7\ ton}$

$V_{su} = z \cdot \operatorname{sen}\alpha \cdot (\cot g\,\alpha + \cot g\,\theta) \cdot \Sigma A_\alpha\, f_{yd,\alpha} \simeq 0'9\,d \cdot (1'46)\, A_s\, f_{yd}$

$A_s = \dfrac{(V_{rd} - V_{cu})}{0'9 \cdot 3'875 \cdot 1'46 \cdot 40.816} = \dfrac{V_s}{2078 \cdot 10^4}\ m^2$

E.L.U. TORSOR

COMPROBACIÓN: $\left.\begin{array}{l} T_d \leq T_{u1} \\ T_d \leq T_{u2} \\ T_d \leq T_{u3} \end{array}\right\}$ $\cot g\,\theta = \cot g\,\theta_e = 1'46$

A) $T_{u1} = \alpha' f_{1cd} \cdot A_e \cdot h_e \dfrac{\cot g\,\theta}{1+\cot g^2\theta} = 15 \cdot 06 \cdot \dfrac{40}{15} \; 2067 \cdot 025 \cdot \dfrac{146}{1+146^2}$

$T_{u1} = 57'82 \cdot 10^6 N = 5900'0$ tm.

B) $T_{u2} = \dfrac{2A_e}{s_t} \dfrac{A_t}{} f_{yt\cdot d} \cot g\,\theta = 2 \cdot 2067 \cdot 146 \cdot \dfrac{40816 \cdot A_s}{10^4} = 7463 A_s$

$A_s = 0'004059\ T_d \longrightarrow K(T_{u2}) = 0'004059$

C) $T_{u3} = \dfrac{2A_e}{u_e} A_L f_{yld} \dfrac{1}{\cot g\,\theta} = \dfrac{2 \cdot 20'67}{1855 \cdot 146} \left(40\,816\ A_s + 148695 \cdot A_p^*\right)$

$A_p^* = 5\%\ A_p = 150\ 19\ 12\ 005 = 171\ cm^2 = 0'00171\ m^2$

$T_{u3}(\text{Pretensado}) = \dfrac{2 \cdot 20'67}{1855 \cdot 146} (148695 \cdot 000171) = 388'12$ tm

$T_{u3}(\text{Armado long.}) = T_{u3} - T_{u3}(\text{Ref.}) = (T_d - 388'12)$ tm

$A_s/_{metro} = \dfrac{(T_{u3} - 388'12) \cdot 1855 \cdot 146}{2 \cdot 20'67 \cdot 40.816} \dfrac{1}{1855} = \dfrac{(T_{u3} - 338'12)}{1155\,707'8} \cdot 10^4$

COMBINACIÓN TORSOR + CORTANTE

1. $V_{d\,max}$ + $T_{d\,concomitante}$ ⟶ SUMA DE A_s
2. $T_{d\,max}$ + $V_{d\,concomitante}$ ⟶ SUMA DE A_s
3. COMPROBACIÓN ELLE:

$$\left(\frac{T_d}{T_{u1}}\right)^\beta + \left(\frac{V_{rd}}{V_{u2}}\right)^\beta \leq 1$$

$\beta = 2\left(1 - \dfrac{h_e}{b}\right) = 1'44$

RASANTE: (ESFUERZOS CORTANTES)

$\tau = \dfrac{V_d \cdot M_{est}}{I\ b(y)} \longrightarrow U_s = \dfrac{V_d\ M_{est}}{I}$ (toneladas)

CALCULO DE CARACTERISTICAS MECANICAS

SECCION	X	CANTO	ESPESOR LOSA INFERIOR	AREA SECCION	CENTRO GRAVEDAD	INERCIA XX	INERCIA YY	AREA TORSION	PERIMETRO TORSION	INERCIA TORSION	CALCULO DE MOMENTOS ESTATICOS							ue/(2*Ae) COEF TORSION LONGITUD	1/(2*Ae) COEF TORSION TRANS	cotg teta=1.46 Tu1	Vu1
											S1	S2	S3	S4	S5	S6	S-ALMA				
1	0.00	4.00	0.50	9.06	1.49	20.01	84.91	19.98	18.30	72814.15	0.57	1.38	1.22	0.57	2.99	2.20	0.95	0.458	0.025	6259.67	2601.48
2	2.40	4.00	0.34	9.06	1.49	20.01	84.91	20.42	18.46	85395.33	0.57	1.38	1.22	0.57	2.15	1.55	0.95	0.452	0.024	6215.95	2601.48
3	4.80	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
4	7.20	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
5	9.60	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
6	12.00	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
7	14.40	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
8	16.80	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
9	19.20	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
10	21.60	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
11	24.00	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
12	26.40	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
13	28.80	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
14	31.20	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
15	33.60	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
16	36.00	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
17	38.40	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
18	40.80	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
19	43.20	4.00	0.25	9.06	1.49	20.01	84.91	20.67	18.55	97885.00	0.57	1.38	1.22	0.57	1.65	1.16	0.95	0.449	0.024	4626.44	2601.48
20	45.60	4.00	0.34	9.06	1.49	20.01	84.91	20.42	18.46	85395.33	0.57	1.38	1.22	0.57	2.15	1.55	0.95	0.452	0.024	6215.95	2601.48
21	48.00	4.00	0.50	9.06	1.49	20.01	84.91	19.98	18.30	72814.15	0.57	1.38	1.22	0.57	2.99	2.20	0.95	0.458	0.025	6259.67	2601.48

Armado de almas

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 8 PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	8	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS DE SECCIÓN

CARACTERISTICAS CORTANTE

Can eficaz =	3.875	cotg tetha =	1.46
Brazo mec =	3.4875	Vu1	2601.48167
fyd cercos =	40816.3	Vcu	379.7
fck (t/m2) =	4081.6	N º ramas =	4

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

			Hipótesis max cortante		Hipótesis max torsor		ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC										ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC												ARMADO DEFINITIVO		
													Dos caras	Arm long	Comprob	Una rama					Una rama		Dos caras	Arm long	Comprob	Una rama	FLEXIÓN TRANS				
	X	Nudo	Vd max	Td con	Td max	Vd con	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	As (Tu2)	As (Tu3)/m	(V+T)<1	As(Td+Vd)	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	As (Tu2)	As(Tu3)/m	(V+T)<1	As(Td+Vd)	As ext	As int	As ext	As int	As long/m
VANO 1	0.00	1.00	1536.07	865.68	2253.04	1061.72	2601.48	379.70	1156.37	4.00	5.84	5900.00	3.51	4.13	0.53	7.59	2601.48	379.70	682.02	4.00	4.88	5900.00	9.15	16.14	0.52	9.46	10.15	15.07	10.15	15.07	16.14
VANO 1	0.98	2.00	1122.11	842.66	2183.96	992.87	2601.48	379.70	742.41	4.00	5.84	5900.00	3.42	3.93	0.36	7.55	2601.48	379.70	613.17	4.00	4.88	5900.00	8.87	15.54	0.49	9.32	10.15	15.07	10.15	15.07	15.54
VANO 1	1.95	3.00	1035.33	819.83	2116.53	923.74	2601.48	379.70	655.63	4.00	5.84	5900.00	3.33	3.74	0.32	7.50	2601.48	379.70	544.04	4.00	4.88	5900.00	8.59	14.96	0.45	9.18	10.15	15.07	10.15	15.07	14.96
VANO 1	2.93	4.00	949.57	797.20	2050.89	854.71	2601.48	379.70	569.87	4.00	5.84	5900.00	3.24	3.54	0.29	7.45	2601.48	379.70	475.01	4.00	4.88	5900.00	8.33	14.39	0.42	9.05	10.15	15.07	10.15	15.07	14.39
VANO 1	3.90	5.00	864.82	774.77	1986.92	785.62	2601.48	379.70	485.12	4.00	5.84	5900.00	3.14	3.35	0.26	7.41	2601.48	379.70	405.92	4.00	4.88	5900.00	8.07	13.83	0.38	8.92	10.15	15.07	10.15	15.07	13.83
VANO 1	3.90	6.00	864.82	774.77	1986.92	785.62	2601.48	379.70	485.12	4.00	5.84	5900.00	3.14	3.35	0.26	7.41	2601.48	379.70	405.92	4.00	4.88	5900.00	8.07	13.83	0.38	8.92	10.15	15.07	10.15	15.07	13.83
VANO 1	4.88	7.00	781.09	752.53	1924.64	716.47	2601.48	379.70	401.39	4.00	4.83	5900.00	3.05	3.15	0.23	6.36	2601.48	379.70	336.77	4.00	4.05	5900.00	7.81	13.29	0.35	7.96	10.15	15.07	10.15	15.07	13.29
VANO 1	5.85	8.00	698.39	730.48	1864.03	647.26	2601.48	379.70	318.69	4.00	3.83	5900.00	2.97	2.96	0.20	5.32	2601.48	379.70	267.56	4.00	3.22	5900.00	7.57	12.77	0.32	7.00	10.15	15.07	10.15	15.07	12.77
VANO 1	6.83	9.00	616.71	708.64	1805.11	578.00	2601.48	379.70	237.01	4.00	2.85	5900.00	2.88	2.77	0.17	4.29	2601.48	379.70	198.30	4.00	2.39	5900.00	7.33	12.26	0.29	6.05	10.15	15.07	10.15	15.07	12.26
VANO 1	7.80	10.00	536.05	686.98	1747.86	508.70	2601.48	379.70	156.35	4.00	1.88	5900.00	2.79	2.59	0.15	3.28	2601.48	379.70	129.00	4.00	1.55	5900.00	7.09	11.77	0.27	5.10	10.15	15.07	10.15	15.07	11.77
VANO 1	7.80	11.00	536.05	686.98	1747.86	508.70	2601.48	379.70	156.35	4.00	1.88	5900.00	2.79	2.59	0.15	3.28	2601.48	379.70	129.00	4.00	1.55	5900.00	7.09	11.77	0.27	5.10	10.15	15.07	10.15	15.07	11.77
VANO 1	8.78	12.00	456.41	665.53	1692.30	439.34	2601.48	379.70	76.71	4.00	0.92	5900.00	2.70	2.40	0.12	2.27	2601.48	379.70	59.64	4.00	0.72	5900.00	6.87	11.28	0.24	4.15	10.15	15.07	10.15	15.07	11.28
VANO 1	9.75	13.00	377.80	644.15	1638.47	369.94	2601.48	379.70	0.00	4.00	0.00	5900.00	2.61	2.22	0.10	1.31	2601.48	379.70	0.00	4.00	0.00	5900.00	6.65	10.82	0.22	3.33	10.15	15.07	10.15	15.07	10.82
VANO 1	10.73	14.00	320.20	406.97	1586.49	300.50	2601.48	379.70	0.00	4.00	0.00	5900.00	1.65	0.16	0.07	0.83	2601.48	379.70	0.00	4.00	0.00	5900.00	6.44	10.37	0.19	3.22	10.15	15.07	10.15	15.07	10.37
VANO 1	11.70	15.00	380.86	394.96	1536.36	231.02	2601.48	379.70	1.16	4.00	0.01	5900.00	1.60	0.06	0.08	0.82	2601.48	379.70	0.00	4.00	0.00	5900.00	6.24	9.94	0.17	3.12	10.15	15.07	10.15	15.07	9.94
VANO 1	11.70	16.00	397.80	394.96	1536.36	214.08	2601.48	379.70	18.10	4.00	0.22	5900.00	1.60	0.06	0.09	1.02	2601.48	379.70	0.00	4.00	0.00	5900.00	6.24	9.94	0.17	3.12	10.15	15.07	10.15	15.07	9.94
VANO 1	12.68	17.00	459.12	382.76	1488.09	144.57	2601.48	379.70	79.42	4.00	0.96	5900.00	1.55	0.00	0.10	1.73	2601.48	379.70	0.00	4.00	0.00	5900.00	6.04	9.52	0.15	3.02	10.15	15.07	10.15	15.07	9.52
VANO 1	13.65	18.00	522.90	446.83	1441.68	75.02	2601.48	379.70	143.20	4.00	1.72	5900.00	1.81	0.51	0.12	2.63	2601.48	379.70	0.00	4.00	0.00	5900.00	5.85	9.12	0.14	2.93	10.15	15.07	10.15	15.07	9.12
VANO 1	14.63	19.00	589.95	430.65	1397.12	5.44	2601.48	379.70	210.25	4.00	2.53	5900.00	1.75	0.37	0.14	3.40	2601.48	379.70	0.00	4.00	0.00	5900.00	5.67	8.73	0.12	2.84	10.15	15.07	10.15	15.07	8.73
VANO 1	15.60	20.00	659.46	414.23	1354.41	65.20	2601.48	379.70	279.76	4.00	3.37	5900.00	1.68	0.23	0.16	4.21	2601.48	379.70	0.00	4.00	0.00	5900.00	5.50	8.36	0.12	2.75	10.15	15.07	10.15	15.07	8.36
VANO 1	15.60	21.00	659.46	414.23	1354.41	65.20	2601.48	379.70	279.76	4.00	3.37	5900.00	1.68	0.23	0.16	4.21	2601.48	379.70	0.00	4.00	0.00	5900.00	5.50	8.36	0.12	2.75	10.15	15.07	10.15	15.07	8.36
VANO 1	16.58	22.00	361.92	397.57	1313.56	135.56	2601.48	379.70	0.00	4.00	0.00	5900.00	1.61	0.08	0.08	0.81	2601.48	379.70	0.00	4.00	0.00	5900.00	5.33	8.01	0.13	2.67	10.15	15.07	10.15	15.07	8.01
VANO 1	17.55	23.00	446.47	409.06	1274.57	205.94	2601.48	379.70	66.77	4.00	0.80	5900.00	1.66	0.18	0.10	1.63	2601.48	379.70	0.00	4.00	0.00	5900.00	5.17	7.67	0.13	2.59	10.15	15.07	10.15	15.07	7.67
VANO 1	18.53	24.00	381.57	402.28	1237.43	276.35	2601.48	379.70	1.87	4.00	0.02	5900.00	1.63	0.12	0.08	0.84	2601.48	379.70	0.00	4.00	0.00	5900.00	5.02	7.35	0.14	2.51	10.15	15.07	10.15	15.07	7.35
VANO 1	19.50	25.00	319.75	426.88	1202.15	346.77	2601.48	379.70	0.00	4.00	0.00	5900.00	1.73	0.34	0.07	0.87	2601.48	379.70	0.00	4.00	0.00	5900.00	4.88	7.04	0.15	2.44	10.15	15.07	10.15	15.07	7.04
VANO 1	19.50	26.00	319.75	426.88	1202.15	346.77	2601.48	379.70	0.00	4.00	0.00	5900.00	1.73	0.34	0.07	0.87	2601.48	379.70	0.00	4.00	0.00	5900.00	4.88	7.04	0.15	2.44	10.15	15.07	10.15	15.07	7.04
VANO 1	20.48	27.00	362.87	328.54	1168.72	417.20	2601.48	379.70	0.00	4.00	0.00	5900.00	1.33	0.00	0.07	0.67	2601.48	379.70	37.50	4.00	0.45	5900.00	4.74	6.75	0.17	2.82	10.15	15.07	10.15	15.07	6.75
VANO 1	21.45	28.00	438.44	310.68	1137.15	487.65	2601.48	379.70	58.74	4.00	0.71	5900.00	1.26	0.00	0.09	1.34	2601.48	379.70	107.95	4.00	1.30	5900.00	4.62	6.48	0.18	3.61	10.15	15.07	10.15	15.07	6.48
VANO 1	22.43	29.00	514.94	292.59	1107.43	558.11	2601.48	379.70	135.24	4.00	1.63	5900.00	1.19	0.00	0.11	2.22	2601.48	379.70	178.41	4.00	2.15	5900.00	4.50	6.22	0.20	4.39	10.15	15.07	10.15	15.07	6.22
VANO 1	23.40	30.00	592.37	282.16	1079.57	628.58	2601.48	379.70	212.67	4.00	2.56	5900.00	1.15	0.00	0.13	3.13	2601.48	379.70	248.88	4.00	2.99	5900.00	4.38	5.98	0.21	5.19	10.15	15.07	10.15	15.07	5.98
VANO 1	23.40	31.00	592.37	282.16	1079.57	628.58	2601.48	379.70	212.67	4.00	2.56	5900.00	1.15	0.00	0.13	3.13	2601.48	379.70	248.88	4.00	2.99	5900.00	4.38	5.98	0.21	5.19	10.15	15.07	10.15	15.07	5.98
VANO 1	24.38	32.00	670.70	273.91	1053.57	699.06	2601.48	379.70	291.00	4.00	3.50	5900.00	1.11	0.00	0.15	4.06	2601.48	379.70	319.36	4.00	3.84	5900.00	4.28	5.76	0.23	5.98	10.15	15.07	10.15	15.07	5.76
VANO 1	25.35	33.00	749.92	265.66	1029.42	769.54	2601.48	379.70	370.22	4.00	4.45	5900.00	1.08	0.00	0.18	4.99	2601.48	379.70	389.84	4.00	4.69	5900.00	4.18	5.55	0.25	6.78	10.15	15.07	10.15	15.07	5.55
VANO 1	26.33	34.00	830.00	257.41	1007.12	840.03	2601.48	379.70	450.30	4.00	5.42	5900.00	1.04	0.00	0.20	5.94	2601.48	379.70	460.33	4.00	5.54	5900.00	4.09	5.36	0.27	7.58	10.15	15.07	10.15	15.07	5.36
VANO 1	27.30	35.00	910.92	249.16	986.68	910.52	2601.48	379.70	531.22	4.00	6.39	5900.00	1.01	0.00	0.23	6.90	2601.48	379.70	530.82	4.00	6.39	5900.00	4.01	5.18	0.30	8.39	10.15	15.07	10.15	15.07	5.18
VANO 1	27.30	36.00	910.92	249.16	986.68	910.52	2601.48	379.70	531.22	4.00	6.39	5900.00	1.01	0.00	0.23	6.90	2601.48	379.70	530.82	4.00	6.39	5900.00	4.01	5.18	0.30	8.39	10.15	15.07	10.15	15.07	5.18
VANO 1	28.28	37.00	992.65	240.91	974.77	953.33	2601.48	379.70	612.95	4.00	7.37	5900.00	0.98	0.00	0.26	7.86	2601.48	379.70	573.63	4.00	6.90	5900.00	3.96	5.08	0.31	8.86	10.15	15.07	10.15	15.07	5.08
VANO 1	29.25	38.00	1075.18	232.66	973.55	1020.65	2601.48	379.70	695.48	4.00	8.37	5900.00	0.94	0.00	0.29	8.84	2601.48	379.70	640.95	4.00	7.71	5900.00	3.95	5.07	0.33	9.69	10.15	15.07	10.15	15.07	5.07
VANO 1	30.23	39.00	1158.47	224.41	975.27	1087.46	2601.48	379.70	778.77	4.00	9.37	5900.00	0.91	0.00	0.32	9.82	2601.48	379.70	707.76	4.00	8.51	5900.00	3.96	5.08	0.36	10.49	10.15	15.07	10.49	15.07	5.08
VANO 1	31.20	40.00	1242.36	216.16	977.69	1153.74	2601.48	379.70	862.66	4.00	10.38	5900.00	0.88	0.00	0.35	10.82	2601.48	379.70	774.04	4.00	9.31	5900.00	3.97	5.10	0.38	11.30	10.15	15.07	11.30	15.07	5.10
VANO 1	31.20	41.00	1242.36	216.16	977.69	1153.74	2601.48	379.70	862.66	4.00	10.38	5900.00	0.88	0.00	0.35	10.82	2601.48	379.70	774.04	4.00	9.31	5900.00	3.97	5.10	0.38	11.30	10.15	15.07	11.30	15.07	5.10
VANO 1	32.18	42.00	1326.76	207.91	980.83	1219.50	2601.48	379.70	947.06	4.00	11.39	5900.00	0.84	0.00	0.39	11.81	2601.48	379.70	839.80	4.00	10.10	5900.00	3.98	5.13	0.41	12.09	10.15	15.07	12.09	15.07	5.13
VANO 1	33.15	43.00	1411.64	199.66	985.29	1285.17	2601.48	379.70	1031.94	4.00	12.41	5900.00	0.81	0.00	0.42	12.82	2601.48	379.70	905.47	4.00	10.89	5900.00	4.00	5.17	0.44	12.89	10.15	15.07	12.89	15.07	5.17
VANO 1	34.13	44.00	1496.98	191.41	991.19	1350.97	2601.48	379.70	1117.28	4.00	13.44	5900.00	0.78	0.00	0.46	13.83	2601.48	379.70	971.27	4.00	11.68	5900.00	4.02	5.22	0.46	13.70	10.15	15.07	13.83	15.07	5.22
VANO 1	35.10	45.00	1582.75	183.16	1029.22	1457.58	2601.48	379.70	1203.05	4.00	14.47	5900.00	0.74	0.00	0.49	14.84	2601.48	379.70	1077.88	4.00	12.97	5900.00	4.18	5.55	0.51	15.06	10.15	15.07	15.06	15.07	5.55
VANO 1	35.10	46.00	1582.75	183.16	1029.22	1457.58	2601.48	379.70	1203.05	4.00	14.47	5900.00	0.74	0.00	0.49	14.84	2601.48	379.70	1077.88	4.00	12.97	5900.00	4.18	5.55	0.51	15.06	10.15	15.07	15.06	15.07	5.55
VANO 1	36.08	47.00	1668.91	174.91	1074.83	1526.70	2601.48	379.70	1289.21	4.00	14.47	5900.00	0.71	0.00	0.53	14.83	2601.48	379.70	1147.00	4.00	12.97	5900.00	4.36	5.94	0.55	15.15	10.15	15.07	15.15	15.15	5.94
VANO 1	37.05	48.00	1755.45	173.02	1122.11	1595.71	2601.48	379.70	1375.75	4.00	14.47	5900.00	0.70	0.00	0.57	14.82	2601.48	379.70	1216.01	4.00	12.97	5900.00	4.55	6.35	0.58	15.24	10.15	15.07	15.24	15.24	6.35
VANO 1	38.03	49.00	1842.32	186.35	1171.06	1654.60	2601.48	379.70	1462.62	4.00	14.47	5900.00	0.76	0.00	0.61	14.85	2601.48	379.70	1284.90	4.00	12.97	5900.00	4.75	6.77	0.62	15.34	10.15	15.07	15.34	15.34	6.77
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.00	14.47	5900.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.00	[illegible]	5900.00	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
VANO 2	0.00	1.00	2356.78	617.61	2013.43	1717.19	2601.48	379.70	1977.08	4.00	13.78	5900.00	2.51	1.99	0.91	15.04	2601.48	379.70	1337.49	4.00	12.03	5900.00	8.17	14.06	0.76	16.11	10.15	15.07	16.11	16.11	14.06
VANO 2	1.20	2.00	1841.70	590.63	1937.21	1632.96	2601.48	379.70	1462.00	4.00	13.78	5900.00	2.40	1.75	0.64	14.98	2601.48	379.70	1253.26	4.00	12.03	5900.00	7.86	13.40	0.71	15.96	10.15	15.07	15.96	15.96	13.40
VANO 2	2.40	3.00	1735.66	563.88	1862.99	1548.60	2601.48	379.70	1355.96	4.00	13.78	5900.00	2.29	1.52	0.59	14.93	2601.48	379.70	1168.90	4.00	12.03	5900.00	7.56	12.76	0.66	15.81	10.15	15.07	15.81	15.81	12.76
VANO 2	3.60	4.00	1630.21	537.37	1790.77	1454.10	2601.48	379.70	1250.51	4.00	13.78	5900.00	2.18	1.29	0.54	14.87	2601.48	379.70	1084.40	4.00	12.03	5900.00	7.27	12.14	0.61	15.66	10.15	15.07	15.66	15.66	12.14
VANO 2	4.80	5.00	1525.41	511.09	1720.55	1379.46	2601.48	379.70	1145.71	4.00	13.78	5900.00	2.07	1.06	0.49	14.82	2601.48	379.70	999.76	4.00	12.03	5900.00	6.98	11.53	0.57	15.52	10.15	15.07	15.52	15.52	11.53
VANO 2	4.80	6.00	1525.41	511.09	1720.55	1379.46	2601.48	379.70	1145.71	4.00	13.78	5900.00	2.07	1.06	0.49	14.82	2601.48	379.70	999.76	4.00	12.03	5900.00	6.98	11.53	0.57	15.52	10.15	15.07	15.52	15.52	11.53
VANO 2	6.00	7.00	1421.30	485.04	1652.33	1294.69	2601.48	379.70	1041.60	4.00	12.53	5900.00	1.97	0.84	0.44	13.51	2601.48	379.70	914.99	4.00	11.01	5900.00	6.71	10.94	0.52	14.36	10.15	15.07	14.36	15.07	10.94
VANO 2	7.20	8.00	1317.95	459.23	1586.10	1209.80	2601.48	379.70	938.25	4.00	11.29	5900.00	1.86	0.62	0.40	12.22	2601.48	379.70	830.10	4.00	9.99	5900.00	6.44	10.37	0.48	13.20	10.15	15.07	13.20	15.07	10.37
VANO 2	8.40	9.00	1215.41	433.66	1521.88	1124.79	2601.48	379.70	835.71	4.00	10.05	5900.00	1.76	0.39	0.36	10.93	2601.48	379.70	745.09	4.00	8.96	5900.00	6.18	9.81	0.41	12.05	10.15	15.07	12.05	15.07	9.81
VANO 2	9.60	10.00	1113.72	408.32	1459.66	1039.67	2601.48	379.70	734.02	4.00	8.83	5900.00	1.66	0.17	0.31	9.66	2601.48	379.70	659.97	4.00	7.94	5900.00	5.93	9.27	0.40	10.90	10.15	15.07	10.90	15.07	9.27
VANO 2	9.60	11.00	1113.72	408.32	1459.66	1039.67	2601.48	379.70	734.02	4.00	8.83	5900.00	1.66	0.17	0.31	9.66	2601.48	379.70	659.97	4.00	7.94	5900.00	5.93	9.27	0.40	10.90	10.15	15.07	10.90	15.07	9.27
VANO 2	10.80	12.00	1012.94	383.22	1399.43	954.44	2601.48	379.70	633.24	4.00	7.62	5900.00	1.56	0.00	0.28	8.40	2601.48	379.70	574.74	4.00	6.91	5900.00	5.68	8.75	0.36	9.75	10.15	15.07	10.15	15.07	8.75
VANO 2	12.00	13.00	913.11	358.35	1341.21	869.10	2601.48	379.70	533.41	4.00	6.42	5900.00	1.45	0.00	0.24	7.14	2601.48	379.70	489.40	4.00	5.89	5900.00	5.44	8.25	0.32	8.61	10.15	15.07	10.15	15.07	8.25
VANO 2	13.20	14.00	814.27	333.72	1284.99	783.68	2601.48	379.70	434.57	4.00	5.23	5900.00	1.35	0.00	0.20	5.90	2601.48	379.70	403.98	4.00	4.86	5900.00	5.22	7.76	0.29	7.47	10.15	15.07	10.15	15.07	7.76
VANO 2	14.40	15.00	716.46	309.32	1230.76	698.16	2601.48	379.70	336.76	4.00	4.05	5900.00	1.26	0.00	0.17	4.68	2601.48	379.70	318.46	4.00	3.83	5900.00	5.00	7.29	0.25	6.33	10.15	15.07	10.15	15.07	7.29
VANO 2	14.40	16.00	699.51	309.32	1230.76	631.22	2601.48	379.70	319.81	4.00	3.85	5900.00	1.26	0.00	0.16	4.47	2601.48	379.70	301.52	4.00	3.63	5900.00	5.00	7.29	0.25	6.13	10.15	15.07	10.15	15.07	7.29
VANO 2	15.60	17.00	602.77	285.15	1178.54	595.63	2601.48	379.70	223.07	4.00	2.68	5900.00	1.16	0.00	0.13	3.26	2601.48	379.70	215.93	4.00	2.60	5900.00	4.78	6.84	0.22	4.99	10.15	15.07	10.15	15.07	6.84
VANO 2	16.80	18.00	507.13	261.23	1128.31	509.97	2601.48	379.70	127.43	4.00	1.53	5900.00	1.06	0.00	0.11	2.06	2601.48	379.70	130.27	4.00	1.57	5900.00	4.58	6.40	0.19	3.86	10.15	15.07	10.15	15.07	6.40
VANO 2	18.00	19.00	412.61	237.53	1080.09	424.25	2601.48	379.70	32.91	4.00	0.40	5900.00	0.96	0.00	0.08	0.88	2601.48	379.70	44.55	4.00	0.54	5900.00	4.38	5.99	0.16	2.73	10.15	15.07	10.15	15.07	5.99
VANO 2	19.20	20.00	455.14	82.80	1033.97	338.47	2601.48	379.70	75.44	4.00	0.91	5900.00	0.34	0.00	0.08	1.08	2601.48	379.70	0.00	4.00	0.00	5900.00	4.20	5.59	0.13	2.10	10.15	15.07	10.15	15.07	5.59
VANO 2	19.20	21.00	455.14	82.80	1033.97	338.47	2601.48	379.70	75.44	4.00	0.91	5900.00	0.34	0.00	0.08	1.08	2601.48	379.70	0.00	4.00	0.00	5900.00	4.20	5.59	0.13	2.10	10.15	15.07	10.15	15.07	5.59
VANO 2	20.40	22.00	535.31	72.81	990.07	252.66	2601.48	379.70	155.61	4.00	1.87	5900.00	0.30	0.00	0.10	2.02	2601.48	379.70	0.00	4.00	0.00	5900.00	4.02	5.21	0.11	2.01	10.15	15.07	10.15	15.07	5.21
VANO 2	21.60	23.00	617.24	62.83	948.37	166.81	2601.48	379.70	237.54	4.00	2.86	5900.00	0.26	0.00	0.13	2.98	2601.48	379.70	0.00	4.00	0.00	5900.00	3.85	4.85	0.09	1.92	10.15	15.07	10.15	15.07	4.85
VANO 2	22.80	24.00	700.51	52.85	908.90	80.94	2601.48	379.70	320.81	4.00	3.86	5900.00	0.21	0.00	0.15	3.97	2601.48	379.70	0.00	4.00	0.00	5900.00	3.69	4.51	0.07	1.84	10.15	15.07	10.15	15.07	4.51
VANO 2	24.00	25.00	376.61	47.91	871.63	6.27	2601.48	379.70	0.00	4.00	0.00	5900.00	0.19	0.00	0.06	0.10	2601.48	379.70	0.00	4.00	0.00	5900.00	3.54	4.18	0.06	1.77	10.15	15.07	10.15	15.07	4.18
VANO 2	24.00	26.00	376.61	47.91	871.63	6.27	2601.48	379.70	0.00	4.00	0.00	5900.00	0.19	0.00	0.06	0.10	2601.48	379.70	0.00	4.00	0.00	5900.00	3.54	4.18	0.06	1.77	10.15	15.07	10.15	15.07	4.18
VANO 2	25.20	27.00	691.35	100.07	836.58	93.05	2601.48	379.70	311.65	4.00	3.75	5900.00	0.41	0.00	0.15	3.95	2601.48	379.70	0.00	4.00	0.00	5900.00	3.40	3.88	0.07	1.70	10.15	15.07	10.15	15.07	3.88
VANO 2	26.40	28.00	607.79	78.15	814.43	179.84	2601.48	379.70	228.09	4.00	2.74	5900.00	0.32	0.00	0.12	2.90	2601.48	379.70	0.00	4.00	0.00	5900.00	3.31	3.69	0.08	1.65	10.15	15.07	10.15	15.07	3.69
VANO 2	27.60	29.00	525.56	56.53	845.33	263.89	2601.48	379.70	145.86	4.00	1.75	5900.00	0.23	0.00	0.10	1.87	2601.48	379.70	0.00	4.00	0.00	5900.00	3.43	3.96	0.10	1.72	10.15	15.07	10.15	15.07	3.96
VANO 2	28.80	30.00	446.03	67.00	880.25	349.73	2601.48	379.70	66.33	4.00	0.80	5900.00	0.27	0.00	0.08	0.93	2601.48	379.70	0.00	4.00	0.00	5900.00	3.57	4.26	0.12	1.79	10.15	15.07	10.15	15.07	4.26
VANO 2	28.80	31.00	446.03	67.00	880.25	349.73	2601.48	379.70	66.33	4.00	0.80	5900.00	0.27	0.00	0.08	0.93	2601.48	379.70	0.00	4.00	0.00	5900.00	3.57	4.26	0.12	1.79	10.15	15.07	10.15	15.07	4.26
VANO 2	30.00	32.00	420.06	120.77	922.28	435.54	2601.48	379.70	40.36	4.00	0.49	5900.00	0.49	0.00	0.08	0.73	2601.48	379.70	55.84	4.00	0.67	5900.00	3.74	4.62	0.14	2.54	10.15	15.07	10.15	15.07	4.62
VANO 2	31.20	33.00	514.30	143.84	969.12	521.30	2601.48	379.70	134.60	4.00	1.62	5900.00	0.58	0.00	0.10	1.91	2601.48	379.70	141.60	4.00	1.70	5900.00	3.93	5.03	0.17	3.67	10.15	15.07	10.15	15.07	5.03
VANO 2	32.40	34.00	609.68	167.69	1018.51	607.01	2601.48	379.70	229.98	4.00	2.77	5900.00	0.68	0.00	0.13	3.11	2601.48	379.70	227.31	4.00	2.73	5900.00	4.13	5.45	0.20	4.80	10.15	15.07	10.15	15.07	5.45
VANO 2	33.60	35.00	706.18	191.77	1069.92	692.65	2601.48	379.70	326.48	4.00	3.93	5900.00	0.78	0.00	0.16	4.32	2601.48	379.70	312.95	4.00	3.76	5900.00	4.34	5.90	0.23	5.94	10.15	15.07	10.15	15.07	5.90
VANO 2	33.60	36.00	706.18	191.77	1069.92	692.65	2601.48	379.70	326.48	4.00	3.93	5900.00	0.78	0.00	0.16	4.32	2601.48	379.70	312.95	4.00	3.76	5900.00	4.34	5.90	0.23	5.94	10.15	15.07	10.15	15.07	5.90
VANO 2	34.80	37.00	803.77	216.09	1123.32	778.23	2601.48	379.70	424.07	4.00	5.10	5900.00	0.88	0.00	0.19	5.54	2601.48	379.70	398.53	4.00	4.79	5900.00	4.56	6.36	0.27	7.07	10.15	15.07	10.15	15.07	6.36
VANO 2	36.00	38.00	902.40	240.65	1178.74	863.72	2601.48	379.70	522.70	4.00	6.29	5900.00	0.98	0.00	0.23	6.78	2601.48	379.70	484.02	4.00	5.82	5900.00	4.78	6.84	0.30	8.21	10.15	15.07	10.15	15.07	6.84
VANO 2	37.20	39.00	1002.05	265.44	1236.16	949.13	2601.48	379.70	622.35	4.00	7.49	5900.00	1.08	0.00	0.26	8.03	2601.48	379.70	569.43	4.00	6.85	5900.00	5.02	7.34	0.34	9.36	10.15	15.07	10.15	15.07	7.34
VANO 2	38.40	40.00	1102.66	290.46	1295.59	1034.45	2601.48	379.70	722.96	4.00	8.70	5900.00	1.18	0.00	0.30	9.29	2601.48	379.70	654.75	4.00	7.88	5900.00	5.26	7.85	0.38	10.51	10.15	15.07	10.51	15.07	7.85
VANO 2	38.40	41.00	1102.66	290.46	1295.59	1034.45	2601.48	379.70	722.96	4.00	8.70	5900.00	1.18	0.00	0.30	9.29	2601.48	379.70	654.75	4.00	7.88	5900.00	5.26	7.85	0.38	10.51	10.15	15.07	10.51	15.07	7.85
VANO 2	39.60	42.00	1204.20	315.73	1357.02	1119.66	2601.48	379.70	824.50	4.00	9.92	5900.00	1.28	0.00	0.34	10.56	2601.48	379.70	739.96	4.00	8.90	5900.00	5.51	8.38	0.42	11.66	10.15	15.07	11.66	15.07	8.38
VANO 2	40.80	43.00	1306.63	341.22	1420.46	1204.77	2601.48	379.70	926.93	4.00	11.15	5900.00	1.39	0.00	0.39	11.84	2601.48	379.70	825.07	4.00	9.92	5900.00	5.77	8.93	0.46	12.81	10.15	15.07	12.81	15.07	8.93
VANO 2	42.00	44.00	1409.89	366.95	1485.91	1289.76	2601.48	379.70	1030.19	4.00	12.39	5900.00	1.49	0.00	0.43	13.14	2601.48	379.70	910.06	4.00	10.95	5900.00	6.03	9.50	0.50	13.96	10.15	15.07	13.96	15.07	9.50
VANO 2	43.20	45.00	1513.93	392.92	1553.36	1374.64	2601.48	379.70	1134.23	4.00	13.64	5900.00	1.59	0.04	0.48	14.44	2601.48	379.70	994.94	4.00	11.97	5900.00	6.31	10.08	0.54	15.12	10.15	15.07	15.12	15.12	10.08
VANO 2	43.20	46.00	1513.93	392.92	1553.36	1374.64	2601.48	379.70	1134.23	4.00	13.64	5900.00	1.59	0.04	0.48	14.44	2601.48	379.70	994.94	4.00	11.97	5900.00	6.31	10.08	0.54	15.12	10.15	15.07	15.12	15.12	10.08
VANO 2	44.40	47.00	1618.70	419.12	1622.82	1459.39	2601.48	379.70	1239.00	4.00	13.64	5900.00	1.70	0.27	0.53	14.49	2601.48	379.70	1079.69	4.00	11.97	5900.00	6.59	10.68	0.59	15.26	10.15	15.07	15.26	15.26	10.68
VANO 2	45.60	48.00	1724.14	445.56	1694.29	1544.02	2601.48	379.70	1344.44	4.00	13.64	5900.00	1.81	0.50	0.58	14.55	2601.48	379.70	1164.32	4.00	11.97	5900.00	6.88	11.30	0.64	15.41	10.15	15.07	15.41	15.41	11.30
VANO 2	46.80	49.00	1830.20	472.23	1767.76	1628.52	2601.48	379.70	1450.50	4.00	13.64	5900.00	1.92	0.73	0.63	14.60	2601.48	379.70	1248.82	4.00	11.97	5900.00	7.18	11.94	0.68	15.56	10.15	15.07	15.56	15.56	11.94

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS DE SECCIÓN

CARACTERISTICAS CORTANTE

Can eficaz =	3.875	cotg tetha =	1.46
Brazo mec =	3.4875	Vu1	2601.48167
fyd cercos =	40816.3	Vcu	379.7
fck (t/m2) =	4081.6	N° ramas =	4

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC — **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** — **ARMADO DEFINITIVO**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	Dos caras As (Tu2)	Arm long As (Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	Vu1	Vcu	Vsu	Una rama Ramas	As Cerc	Tu1	Dos caras As (Tu2)	Arm long As(Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	FLEXIÓN TRANS As ext	As int	ARMADO DEFINITIVO As ext	As int	As long/m
VANO 3	0.00	1.00	2355.00	466.74	1897.96	1696.24	2601.48	379.70	1975.30	4.00	13.76	5900.00	1.89	0.68	0.89	14.71	2601.48	379.70	1316.54	4.00	11.77	5900.00	7.70	13.06	0.73	15.62	10.15	15.07	15.62	15.62	13.06
VANO 3	1.20	2.00	1839.90	440.21	1823.49	1611.91	2601.48	379.70	1460.20	4.00	13.76	5900.00	1.79	0.45	0.63	14.65	2601.48	379.70	1232.21	4.00	11.77	5900.00	7.40	12.42	0.68	15.47	10.15	15.07	15.47	15.47	12.42
VANO 3	2.40	3.00	1733.86	413.92	1751.02	1527.45	2601.48	379.70	1354.16	4.00	13.76	5900.00	1.68	0.22	0.58	14.60	2601.48	379.70	1147.75	4.00	11.77	5900.00	7.11	11.79	0.64	15.32	10.15	15.07	15.32	15.32	11.79
VANO 3	3.60	4.00	1628.42	387.86	1680.52	1442.85	2601.48	379.70	1248.72	4.00	13.76	5900.00	1.57	0.00	0.53	14.55	2601.48	379.70	1063.15	4.00	11.77	5900.00	6.82	11.18	0.59	15.18	10.15	15.07	15.18	15.18	11.18
VANO 3	4.80	5.00	1523.64	362.04	1612.01	1358.13	2601.48	379.70	1143.94	4.00	13.76	5900.00	1.47	0.00	0.48	14.50	2601.48	379.70	978.43	4.00	11.77	5900.00	6.54	10.59	0.54	15.04	10.15	15.07	15.04	15.07	10.59
VANO 3	4.80	6.00	1523.64	362.04	1612.01	1358.13	2601.48	379.70	1143.94	4.00	13.76	5900.00	1.47	0.00	0.48	14.50	2601.48	379.70	978.43	4.00	11.77	5900.00	6.54	10.59	0.54	15.04	10.15	15.07	15.04	15.07	10.59
VANO 3	6.00	7.00	1419.57	336.45	1545.49	1273.28	2601.48	379.70	1039.87	4.00	12.51	5900.00	1.37	0.00	0.43	13.19	2601.48	379.70	893.58	4.00	10.75	5900.00	6.27	10.01	0.50	13.89	10.15	15.07	13.89	15.07	10.01
VANO 3	7.20	8.00	1316.27	311.09	1480.95	1188.31	2601.48	379.70	936.57	4.00	11.27	5900.00	1.26	0.00	0.39	11.90	2601.48	379.70	808.61	4.00	9.73	5900.00	6.01	9.46	0.46	12.73	10.15	15.07	12.73	15.07	9.46
VANO 3	8.40	9.00	1213.78	286.83	1419.26	1103.23	2601.48	379.70	834.08	4.00	10.03	5900.00	1.16	0.00	0.35	10.62	2601.48	379.70	723.53	4.00	8.70	5900.00	5.76	8.92	0.42	11.58	10.15	15.07	11.58	15.07	8.92
VANO 3	9.60	10.00	1112.16	264.36	1361.11	1018.04	2601.48	379.70	732.46	4.00	8.81	5900.00	1.07	0.00	0.30	9.35	2601.48	379.70	638.34	4.00	7.68	5900.00	5.53	8.42	0.38	10.44	10.15	15.07	10.44	15.07	8.42
VANO 3	9.60	11.00	1112.16	264.36	1361.11	1018.04	2601.48	379.70	732.46	4.00	8.81	5900.00	1.07	0.00	0.30	9.35	2601.48	379.70	638.34	4.00	7.68	5900.00	5.53	8.42	0.38	10.44	10.15	15.07	10.44	15.07	8.42
VANO 3	10.80	12.00	1011.44	242.12	1304.95	932.75	2601.48	379.70	631.74	4.00	7.60	5900.00	0.98	0.00	0.27	8.09	2601.48	379.70	553.05	4.00	6.65	5900.00	5.30	7.93	0.34	9.30	10.15	15.07	10.15	15.07	7.93
VANO 3	12.00	13.00	911.67	220.11	1250.77	847.37	2601.48	379.70	531.97	4.00	6.40	5900.00	0.89	0.00	0.23	6.85	2601.48	379.70	467.67	4.00	5.63	5900.00	5.08	7.46	0.30	8.16	10.15	15.07	10.15	15.07	7.46
VANO 3	13.20	14.00	812.90	198.34	1198.58	761.89	2601.48	379.70	433.20	4.00	5.21	5900.00	0.81	0.00	0.19	5.61	2601.48	379.70	382.19	4.00	4.60	5900.00	4.87	7.01	0.27	7.03	10.15	15.07	10.15	15.07	7.01
VANO 3	14.40	15.00	715.16	176.80	1148.37	676.33	2601.48	379.70	335.46	4.00	4.04	5900.00	0.72	0.00	0.16	4.39	2601.48	379.70	296.63	4.00	3.57	5900.00	4.66	6.58	0.24	5.90	10.15	15.07	10.15	15.07	6.58
VANO 3	14.40	16.00	698.21	176.80	1148.37	659.38	2601.48	379.70	318.51	4.00	3.83	5900.00	0.72	0.00	0.16	4.19	2601.48	379.70	279.68	4.00	3.36	5900.00	4.66	6.58	0.23	5.70	10.15	15.07	10.15	15.07	6.58
VANO 3	15.60	17.00	601.53	155.99	1100.64	573.75	2601.48	379.70	221.83	4.00	2.67	5900.00	0.63	0.00	0.13	2.99	2601.48	379.70	194.05	4.00	2.33	5900.00	4.47	6.17	0.20	4.57	10.15	15.07	10.15	15.07	6.17
VANO 3	16.80	18.00	505.95	135.80	1055.29	488.05	2601.48	379.70	126.25	4.00	1.52	5900.00	0.55	0.00	0.10	1.79	2601.48	379.70	108.35	4.00	1.30	5900.00	4.28	5.77	0.17	3.45	10.15	15.07	10.15	15.07	5.77
VANO 3	18.00	19.00	428.34	25.29	1011.93	402.29	2601.48	379.70	48.64	4.00	0.59	5900.00	0.10	0.00	0.07	0.64	2601.48	379.70	22.59	4.00	0.27	5900.00	4.11	5.40	0.15	2.33	10.15	15.07	10.15	15.07	5.40
VANO 3	19.20	20.00	507.44	58.74	974.31	316.48	2601.48	379.70	127.74	4.00	1.54	5900.00	0.24	0.00	0.10	1.66	2601.48	379.70	0.00	4.00	0.00	5900.00	3.95	5.07	0.12	1.98	10.15	15.07	10.15	15.07	5.07
VANO 3	19.20	21.00	507.44	58.74	974.31	316.48	2601.48	379.70	127.74	4.00	1.54	5900.00	0.24	0.00	0.10	1.66	2601.48	379.70	0.00	4.00	0.00	5900.00	3.95	5.07	0.12	1.98	10.15	15.07	10.15	15.07	5.07
VANO 3	20.40	22.00	588.12	79.95	941.67	230.63	2601.48	379.70	208.42	4.00	2.51	5900.00	0.32	0.00	0.12	2.67	2601.48	379.70	0.00	4.00	0.00	5900.00	3.82	4.79	0.10	1.91	10.15	15.07	10.15	15.07	4.79
VANO 3	21.60	23.00	670.11	101.44	924.41	146.30	2601.48	379.70	290.41	4.00	3.49	5900.00	0.41	0.00	0.14	3.70	2601.48	379.70	0.00	4.00	0.00	5900.00	3.75	4.64	0.08	1.88	10.15	15.07	10.15	15.07	4.64
VANO 3	22.80	24.00	753.43	123.22	943.42	59.50	2601.48	379.70	373.73	4.00	4.50	5900.00	0.50	0.00	0.17	4.75	2601.48	379.70	0.00	4.00	0.00	5900.00	3.83	4.80	0.08	1.91	10.15	15.07	10.15	15.07	4.80
VANO 3	24.00	25.00	430.06	145.28	978.19	32.06	2601.48	379.70	50.36	4.00	0.61	5900.00	0.59	0.00	0.08	0.90	2601.48	379.70	0.00	4.00	0.00	5900.00	3.97	5.11	0.08	1.99	10.15	15.07	10.15	15.07	5.11
VANO 3	24.00	26.00	430.06	145.28	978.19	32.06	2601.48	379.70	50.36	4.00	0.61	5900.00	0.59	0.00	0.08	0.90	2601.48	379.70	0.00	4.00	0.00	5900.00	3.97	5.11	0.08	1.99	10.15	15.07	10.15	15.07	5.11
VANO 3	25.20	27.00	691.04	83.74	1015.56	117.97	2601.48	379.70	311.34	4.00	3.75	5900.00	0.34	0.00	0.15	3.92	2601.48	379.70	0.00	4.00	0.00	5900.00	4.12	5.43	0.09	2.06	10.15	15.07	10.15	15.07	5.43
VANO 3	26.40	28.00	607.51	93.48	1055.14	203.88	2601.48	379.70	227.81	4.00	2.74	5900.00	0.38	0.00	0.12	2.93	2601.48	379.70	0.00	4.00	0.00	5900.00	4.28	5.77	0.11	2.14	10.15	15.07	10.15	15.07	5.77
VANO 3	27.60	29.00	525.32	103.23	1096.91	289.78	2601.48	379.70	145.62	4.00	1.75	5900.00	0.42	0.00	0.10	1.96	2601.48	379.70	0.00	4.00	0.00	5900.00	4.45	6.13	0.13	2.23	10.15	15.07	10.15	15.07	6.13
VANO 3	28.80	30.00	444.44	112.97	1140.88	375.65	2601.48	379.70	64.74	4.00	0.78	5900.00	0.46	0.00	0.08	1.01	2601.48	379.70	0.00	4.00	0.00	5900.00	4.63	6.51	0.15	2.32	10.15	15.07	10.15	15.07	6.51
VANO 3	28.80	31.00	444.44	112.97	1140.88	375.65	2601.48	379.70	64.74	4.00	0.78	5900.00	0.46	0.00	0.08	1.01	2601.48	379.70	0.00	4.00	0.00	5900.00	4.63	6.51	0.15	2.32	10.15	15.07	10.15	15.07	6.51
VANO 3	30.00	32.00	473.68	259.78	1187.05	461.48	2601.48	379.70	93.98	4.00	1.13	5900.00	1.05	0.00	0.10	1.66	2601.48	379.70	81.78	4.00	0.98	5900.00	4.82	6.91	0.18	3.39	10.15	15.07	10.15	15.07	6.91
VANO 3	31.20	33.00	567.95	283.28	1235.32	547.27	2601.48	379.70	188.25	4.00	2.26	5900.00	1.15	0.00	0.12	2.84	2601.48	379.70	167.57	4.00	2.02	5900.00	5.01	7.33	0.21	4.52	10.15	15.07	10.15	15.07	7.33
VANO 3	32.40	34.00	663.35	307.02	1285.57	633.01	2601.48	379.70	283.65	4.00	3.41	5900.00	1.25	0.00	0.15	4.04	2601.48	379.70	253.31	4.00	3.05	5900.00	5.22	7.77	0.24	5.66	10.15	15.07	10.15	15.07	7.77
VANO 3	33.60	35.00	759.86	330.99	1337.80	718.69	2601.48	379.70	380.16	4.00	4.57	5900.00	1.34	0.00	0.18	5.24	2601.48	379.70	338.99	4.00	4.08	5900.00	5.43	8.22	0.27	6.79	10.15	15.07	10.15	15.07	8.22
VANO 3	33.60	36.00	759.86	330.99	1337.80	718.69	2601.48	379.70	380.16	4.00	4.57	5900.00	1.34	0.00	0.18	5.24	2601.48	379.70	338.99	4.00	4.08	5900.00	5.43	8.22	0.27	6.79	10.15	15.07	10.15	15.07	8.22
VANO 3	34.80	37.00	857.46	355.19	1392.03	804.29	2601.48	379.70	477.76	4.00	5.75	5900.00	1.44	0.00	0.22	6.47	2601.48	379.70	424.59	4.00	5.11	5900.00	5.65	8.69	0.31	7.93	10.15	15.07	10.15	15.07	8.69
VANO 3	36.00	38.00	956.09	379.62	1448.24	889.82	2601.48	379.70	576.39	4.00	6.93	5900.00	1.54	0.00	0.25	7.70	2601.48	379.70	510.12	4.00	6.14	5900.00	5.88	9.17	0.34	9.08	10.15	15.07	10.15	15.07	9.17
VANO 3	37.20	39.00	1055.74	404.29	1506.44	975.27	2601.48	379.70	676.04	4.00	8.13	5900.00	1.64	0.14	0.29	8.95	2601.48	379.70	595.57	4.00	7.16	5900.00	6.11	9.68	0.38	10.22	10.15	15.07	10.22	15.07	9.68
VANO 3	38.40	40.00	1156.36	429.19	1566.63	1060.62	2601.48	379.70	776.66	4.00	9.34	5900.00	1.74	0.36	0.33	10.21	2601.48	379.70	680.92	4.00	8.19	5900.00	6.36	10.20	0.42	11.37	10.15	15.07	11.37	15.07	10.20
VANO 3	38.40	41.00	1156.36	429.19	1566.63	1060.62	2601.48	379.70	776.66	4.00	9.34	5900.00	1.74	0.36	0.33	10.21	2601.48	379.70	680.92	4.00	8.19	5900.00	6.36	10.20	0.42	11.37	10.15	15.07	11.37	15.07	10.20
VANO 3	39.60	42.00	1257.90	454.32	1628.80	1145.87	2601.48	379.70	878.20	4.00	10.56	5900.00	1.84	0.57	0.37	11.49	2601.48	379.70	766.17	4.00	9.22	5900.00	6.61	10.74	0.46	12.52	10.15	15.07	12.52	15.07	10.74
VANO 3	40.80	43.00	1360.33	479.69	1692.96	1231.02	2601.48	379.70	980.63	4.00	11.80	5900.00	1.95	0.79	0.42	12.77	2601.48	379.70	851.32	4.00	10.24	5900.00	6.87	11.29	0.50	13.68	10.15	15.07	13.68	15.07	11.29
VANO 3	42.00	44.00	1463.60	505.28	1759.11	1316.05	2601.48	379.70	1083.90	4.00	13.04	5900.00	2.05	1.01	0.46	14.06	2601.48	379.70	936.35	4.00	11.26	5900.00	7.14	11.86	0.55	14.83	10.15	15.07	14.83	15.07	11.86
VANO 3	43.20	45.00	1567.65	531.11	1827.24	1400.98	2601.48	379.70	1187.95	4.00	14.29	5900.00	2.16	1.24	0.51	15.37	2601.48	379.70	1021.28	4.00	12.29	5900.00	7.42	12.45	0.59	15.99	10.15	15.07	15.99	15.99	12.45
VANO 3	43.20	46.00	1567.65	531.11	1827.24	1400.98	2601.48	379.70	1187.95	4.00	14.29	5900.00	2.16	1.24	0.51	15.37	2601.48	379.70	1021.28	4.00	12.29	5900.00	7.42	12.45	0.59	15.99	10.15	15.07	15.99	15.99	12.45
VANO 3	44.40	47.00	1672.44	557.17	1897.37	1485.78	2601.48	379.70	1292.74	4.00	14.29	5900.00	2.26	1.46	0.56	15.42	2601.48	379.70	1106.08	4.00	12.29	5900.00	7.70	13.06	0.64	16.14	10.15	15.07	16.14	16.14	13.06
VANO 3	45.60	48.00	1777.91	583.47	1969.48	1570.45	2601.48	379.70	1398.21	4.00	14.29	5900.00	2.37	1.69	0.61	15.47	2601.48	379.70	1190.75	4.00	12.29	5900.00	7.99	13.68	0.69	16.28	10.15	15.07	16.28	16.28	13.68
VANO 3	46.80	49.00	1884.01	609.99	2043.57	1655.00	2601.48	379.70	1504.31	4.00	14.29	5900.00	2.48	1.92	0.67	15.53	2601.48	379.70	1275.30	4.00	12.29	5900.00	8.30	14.32	0.74	16.43	10.15	15.07	16.43	16.43	14.32
VANO 4	48.00	50.00	2399.20	636.76	2119.88	1718.41	2601.48	379.70	2010.50	4.00	14.29	5900.00	2.58	2.18	0.93	15.58	2601.48	379.70	1338.71	4.00	12.29	5900.00	8.60	14.96	0.79	16.59	10.15	15.07	16.59	16.59	14.96
VANO 4	0.00	1.00	2490.73	631.03	2164.97	1815.11	2601.48	379.70	2111.03	4.00	15.40	5900.00	2.56	2.10	0.98	16.68	2601.48	379.70	1435.41	4.00	12.96	5900.00	8.79	15.37	0.83	17.35	10.15	15.07	17.35	17.35	15.37
VANO 4	1.28	2.00	1995.10	602.55	2083.92	1725.71	2601.48	379.70	1615.40	4.00	15.40	5900.00	2.45	1.86	0.72	16.62	2601.48	379.70	1346.01	4.00	12.96	5900.00	8.46	14.67	0.78	17.18	10.15	15.07	17.18	17.18	14.67
VANO 4	2.55	3.00	1882.70	574.32	2005.01	1636.17	2601.48	379.70	1503.00	4.00	15.40	5900.00	2.33	1.61	0.66	16.56	2601.48	379.70	1256.47	4.00	12.96	5900.00	8.14	13.99	0.72	17.02	10.15	15.07	17.02	17.02	13.99
VANO 4	3.83	4.00	1770.91	546.34	1928.23	1546.49	2601.48	379.70	1391.21	4.00	15.40	5900.00	2.22	1.37	0.61	16.51	2601.48	379.70	1166.79	4.00	12.96	5900.00	7.83	13.33	0.67	16.87	10.15	15.07	16.87	16.87	13.33
VANO 4	5.10	5.00	1659.81	518.61	1853.60	1456.67	2601.48	379.70	1280.11	4.00	15.40	5900.00	2.11	1.13	0.55	16.45	2601.48	379.70	1076.97	4.00	12.96	5900.00	7.52	12.68	0.62	16.72	10.15	15.07	16.72	16.72	12.68
VANO 4	5.10	6.00	1659.81	518.61	1853.60	1456.67	2601.48	379.70	1280.11	4.00	15.40	5900.00	2.11	1.13	0.55	16.45	2601.48	379.70	1076.97	4.00	12.96	5900.00	7.52	12.68	0.62	16.72	10.15	15.07	16.72	16.72	12.68
VANO 4	6.38	7.00	1549.46	491.13	1781.10	1366.72	2601.48	379.70	1169.76	4.00	14.07	5900.00	1.99	0.89	0.50	15.07	2601.48	379.70	987.02	4.00	11.87	5900.00	7.23	12.05	0.57	15.49	10.15	15.07	15.49	15.49	12.05
VANO 4	7.65	8.00	1439.90	463.93	1710.75	1276.63	2601.48	379.70	1060.20	4.00	12.75	5900.00	1.88	0.66	0.45	13.70	2601.48	379.70	896.93	4.00	10.79	5900.00	6.94	11.44	0.52	14.26	10.15	15.07	14.26	15.07	11.44
VANO 4	8.93	9.00	1331.20	437.02	1642.60	1186.42	2601.48	379.70	951.50	4.00	11.45	5900.00	1.77	0.42	0.40	12.33	2601.48	379.70	806.72	4.00	9.70	5900.00	6.67	10.85	0.48	13.04	10.15	15.07	13.04	15.07	10.85
VANO 4	10.20	10.00	1223.40	410.37	1576.59	1096.09	2601.48	379.70	843.70	4.00	10.15	5900.00	1.67	0.19	0.36	10.98	2601.48	379.70	716.39	4.00	8.62	5900.00	6.40	10.28	0.44	11.82	10.15	15.07	11.82	15.07	10.28
VANO 4	10.20	11.00	1223.40	410.37	1576.59	1096.09	2601.48	379.70	843.70	4.00	10.15	5900.00	1.67	0.19	0.36	10.98	2601.48	379.70	716.39	4.00	8.62	5900.00	6.40	10.28	0.44	11.82	10.15	15.07	11.82	15.07	10.28
VANO 4	11.48	12.00	1116.56	383.97	1512.72	1005.65	2601.48	379.70	736.86	4.00	8.86	5900.00	1.56	0.00	0.31	9.64	2601.48	379.70	625.95	4.00	7.53	5900.00	6.14	9.73	0.39	10.60	10.15	15.07	10.60	15.07	9.73
VANO 4	12.75	13.00	1010.73	357.82	1450.98	915.10	2601.48	379.70	631.03	4.00	7.59	5900.00	1.45	0.00	0.27	8.32	2601.48	379.70	535.40	4.00	6.44	5900.00	5.89	9.20	0.35	9.39	10.15	15.07	10.15	15.07	9.20
VANO 4	14.03	14.00	905.94	331.92	1391.38	824.45	2601.48	379.70	526.24	4.00	6.33	5900.00	1.35	0.00	0.23	7.00	2601.48	379.70	444.75	4.00	5.35	5900.00	5.65	8.68	0.31	8.17	10.15	15.07	10.15	15.07	8.68
VANO 4	15.30	15.00	802.23	306.27	1333.92	733.71	2601.48	379.70	422.53	4.00	5.08	5900.00	1.24	0.00	0.20	5.70	2601.48	379.70	354.01	4.00	4.26	5900.00	5.41	8.18	0.28	6.97	10.15	15.07	10.15	15.07	8.18
VANO 4	15.30	16.00	785.29	306.27	1333.92	716.77	2601.48	379.70	405.59	4.00	4.88	5900.00	1.24	0.00	0.19	5.50	2601.48	379.70	337.07	4.00	4.05	5900.00	5.41	8.18	0.27	6.76	10.15	15.07	10.15	15.07	8.18
VANO 4	16.58	17.00	682.71	280.87	1278.59	625.95	2601.48	379.70	303.01	4.00	3.64	5900.00	1.14	0.00	0.16	4.22	2601.48	379.70	246.25	4.00	2.96	5900.00	5.19	7.70	0.24	5.56	10.15	15.07	10.15	15.07	7.70
VANO 4	17.85	18.00	581.29	255.72	1225.41	535.05	2601.48	379.70	201.59	4.00	2.43	5900.00	1.04	0.00	0.13	2.94	2601.48	379.70	155.35	4.00	1.87	5900.00	4.97	7.24	0.21	4.36	10.15	15.07	10.15	15.07	7.24
VANO 4	19.13	19.00	481.07	230.81	1174.36	444.08	2601.48	379.70	101.37	4.00	1.22	5900.00	0.94	0.00	0.10	1.69	2601.48	379.70	64.38	4.00	0.77	5900.00	4.77	6.80	0.17	3.16	10.15	15.07	10.15	15.07	6.80
VANO 4	20.40	20.00	455.81	79.65	1125.44	353.07	2601.48	379.70	76.11	4.00	0.92	5900.00	0.32	0.00	0.08	1.08	2601.48	379.70	0.00	4.00	0.00	5900.00	4.57	6.38	0.15	2.28	10.15	15.07	10.15	15.07	6.38
VANO 4	20.40	21.00	455.81	79.65	1125.44	353.07	2601.48	379.70	76.11	4.00	0.92	5900.00	0.32	0.00	0.08	1.08	2601.48	379.70	0.00	4.00	0.00	5900.00	4.57	6.38	0.15	2.28	10.15	15.07	10.15	15.07	6.38
VANO 4	21.68	22.00	541.45	69.27	1078.70	262.00	2601.48	379.70	161.75	4.00	1.95	5900.00	0.28	0.00	0.11	2.09	2601.48	379.70	0.00	4.00	0.00	5900.00	4.38	5.98	0.12	2.19	10.15	15.07	10.15	15.07	5.98
VANO 4	22.95	23.00	628.50	58.90	1034.30	170.90	2601.48	379.70	248.80	4.00	2.99	5900.00	0.24	0.00	0.13	3.11	2601.48	379.70	0.00	4.00	0.00	5900.00	4.20	5.59	0.10	2.10	10.15	15.07	10.15	15.07	5.59
VANO 4	24.23	24.00	716.97	48.52	992.26	79.78	2601.48	379.70	337.27	4.00	4.06	5900.00	0.20	0.00	0.16	4.16	2601.48	379.70	0.00	4.00	0.00	5900.00	4.03	5.23	0.08	2.01	10.15	15.07	10.15	15.07	5.23
VANO 4	25.50	25.00	424.70	60.28	952.58	28.92	2601.48	379.70	45.00	4.00	0.54	5900.00	0.24	0.00	0.07	0.66	2601.48	379.70	0.00	4.00	0.00	5900.00	3.87	4.88	0.07	1.93	10.15	15.07	10.15	15.07	4.88
VANO 4	25.50	26.00	424.70	60.28	952.58	28.92	2601.48	379.70	45.00	4.00	0.54	5900.00	0.24	0.00	0.07	0.66	2601.48	379.70	0.00	4.00	0.00	5900.00	3.87	4.88	0.07	1.93	10.15	15.07	10.15	15.07	4.88
VANO 4	26.78	27.00	675.10	86.26	923.34	121.02	2601.48	379.70	295.40	4.00	3.55	5900.00	0.35	0.00	0.14	3.73	2601.48	379.70	0.00	4.00	0.00	5900.00	3.75	4.63	0.08	1.87	10.15	15.07	10.15	15.07	4.63
VANO 4	28.05	28.00	586.33	63.24	952.41	210.95	2601.48	379.70	206.63	4.00	2.49	5900.00	0.26	0.00	0.12	2.61	2601.48	379.70	0.00	4.00	0.00	5900.00	3.87	4.88	0.10	1.93	10.15	15.07	10.15	15.07	4.88
VANO 4	29.33	29.00	498.98	41.39	992.68	302.06	2601.48	379.70	119.28	4.00	1.43	5900.00	0.17	0.00	0.09	1.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.03	5.23	0.12	2.01	10.15	15.07	10.15	15.07	5.23
VANO 4	30.60	30.00	423.44	133.99	1035.31	393.15	2601.48	379.70	43.74	4.00	0.53	5900.00	0.54	0.00	0.08	0.80	2601.48	379.70	13.45	4.00	0.16	5900.00	4.20	5.60	0.15	2.26	10.15	15.07	10.15	15.07	5.60
VANO 4	30.60	31.00	423.44	133.99	1035.31	393.15	2601.48	379.70	43.74	4.00	0.53	5900.00	0.54	0.00	0.08	0.80	2601.48	379.70	13.45	4.00	0.16	5900.00	4.20	5.60	0.15	2.26	10.15	15.07	10.15	15.07	5.60
VANO 4	31.88	32.00	522.17	158.28	1082.51	484.19	2601.48	379.70	142.47	4.00	1.71	5900.00	0.64	0.00	0.10	2.04	2601.48	379.70	104.49	4.00	1.26	5900.00	4.39	6.01	0.17	3.45	10.15	15.07	10.15	15.07	6.01
VANO 4	33.15	33.00	622.13	183.11	1132.12	575.18	2601.48	379.70	242.43	4.00	2.92	5900.00	0.74	0.00	0.13	3.29	2601.48	379.70	195.48	4.00	2.35	5900.00	4.60	6.44	0.21	4.65	10.15	15.07	10.15	15.07	6.44
VANO 4	34.43	34.00	723.29	208.18	1183.87	666.12	2601.48	379.70	343.59	4.00	4.13	5900.00	0.85	0.00	0.17	4.56	2601.48	379.70	286.42	4.00	3.45	5900.00	4.81	6.89	0.24	5.85	10.15	15.07	10.15	15.07	6.89
VANO 4	35.70	35.00	825.63	233.51	1237.75	756.98	2601.48	379.70	445.93	4.00	5.36	5900.00	0.95	0.00	0.20	5.84	2601.48	379.70	377.28	4.00	4.54	5900.00	5.02	7.35	0.27	7.05	10.15	15.07	10.15	15.07	7.35
VANO 4	35.70	36.00	825.63	233.51	1237.75	756.98	2601.48	379.70	445.93	4.00	5.36	5900.00	0.95	0.00	0.20	5.84	2601.48	379.70	377.28	4.00	4.54	5900.00	5.02	7.35	0.27	7.05	10.15	15.07	10.15	15.07	7.35
VANO 4	36.98	37.00	929.11	259.09	1293.77	847.76	2601.48	379.70	549.41	4.00	6.61	5900.00	1.05	0.00	0.24	7.13	2601.48	379.70	468.06	4.00	5.63	5900.00	5.25	7.84	0.31	8.26	10.15	15.07	10.15	15.07	7.84
VANO 4	38.25	38.00	1033.69	284.92	1351.93	938.46	2601.48	379.70	653.99	4.00	7.87	5900.00	1.16	0.00	0.28	8.45	2601.48	379.70	558.76	4.00	6.72	5900.00	5.49	8.34	0.35	9.47	10.15	15.07	10.15	15.07	8.34
VANO 4	39.53	39.00	1139.33	310.99	1412.22	1029.06	2601.48	379.70	759.63	4.00	9.14	5900.00	1.26	0.00	0.32	9.77	2601.48	379.70	649.36	4.00	7.81	5900.00	5.73	8.86	0.39	10.68	10.15	15.07	10.68	15.07	8.86
VANO 4	40.80	40.00	1246.00	337.32	1474.64	1119.57	2601.48	379.70	866.30	4.00	10.42	5900.00	1.37	0.00	0.36	11.11	2601.48	379.70	739.87	4.00	8.90	5900.00	5.99	9.40	0.43	11.89	10.15	15.07	11.89	15.07	9.40
VANO 4	40.80	41.00	1246.00	337.32	1474.64	1119.57	2601.48	379.70	866.30	4.00	10.42	5900.00	1.37	0.00	0.36	11.11	2601.48	379.70	739.87	4.00	8.90	5900.00	5.99	9.40	0.43	11.89	10.15	15.07	11.89	15.07	9.40
VANO 4	42.08	42.00	1353.64	363.90	1539.20	1209.96	2601.48	379.70	973.94	4.00	11.72	5900.00	1.48	0.00	0.41	12.45	2601.48	379.70	830.26	4.00	9.99	5900.00	6.25	9.96	0.47	13.11	10.15	15.07	13.11	15.07	9.96
VANO 4	43.35	43.00	1462.20	390.73	1605.89	1300.23	2601.48	379.70	1082.50	4.00	13.02	5900.00	1.59	0.02	0.45	13.81	2601.48	379.70	920.53	4.00	11.07	5900.00	6.52	10.54	0.52	14.33	10.15	15.07	14.33	15.07	10.54
VANO 4	44.63	44.00	1559.90	417.80	1674.72	1388.72	2601.48	379.70	1180.20	4.00	14.20	5900.00	1.70	0.26	0.50	15.04	2601.48	379.70	1009.02	4.00	12.14	5900.00	6.80	11.13	0.57	15.54	10.15	15.07	15.54	15.54	11.13
VANO 4	45.90	45.00	1664.60	445.13	1745.68	1478.75	2601.48	379.70	1284.90	4.00	15.46	5900.00	1.81	0.49	0.55	16.36	2601.48	379.70	1099.05	4.00	13.22	5900.00	7.09	11.75	0.61	16.76	10.15	15.07	16.76	16.76	11.75
VANO 4	45.90	46.00	1664.60	445.13	1745.68	1478.75	2601.48	379.70	1284.90	4.00	15.46	5900.00	1.81	0.49	0.55	16.36	2601.48	379.70	1099.05	4.00	13.22	5900.00	7.09	11.75	0.61	16.76	10.15	15.07	16.76	16.76	11.75
VANO 4	47.18	47.00	1775.63	472.71	1818.78	1568.65	2601.48	379.70	1395.93	4.00	15.46	5900.00	1.92	0.73	0.60	16.42	2601.48	379.70	1188.95	4.00	13.22	5900.00	7.38	12.38	0.66	16.91	10.15	15.07	16.91	16.91	12.38
VANO 4	48.45	48.00	1887.37	500.54	1894.02	1658.41	2601.48	379.70	1507.67	4.00	15.46	5900.00	2.03	0.97	0.66	16.47	2601.48	379.70	1278.71	4.00	13.22	5900.00	7.69	13.03	0.72	17.06	10.15	15.07	17.06	17.06	13.03
VANO 4	49.73	49.00	1999.76	528.62	1971.38	1748.03	2601.48	379.70	1620.06	4.00	15.46	5900.00	2.15	1.22	0.71	16.53	2601.48	379.70	1368.33	4.00	13.22	5900.00	8.00	13.70	0.77	17.22	10.15	15.07	17.22	17.22	13.70

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC 5 PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS DE SECCIÓN

CARACTERISTICAS CORTANTE			
Can eficaz =	3.875	cotg tetha =	1.46
Brazo mec =	3.4875	Vu1	2601.48167
fyd cercos =	40816.3	Vcu	379.7
fck (t/m2) =	4081.6	N º ramas =	4

CARACTERISTICAS TORSOR			
fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	16.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

Esfuerzos

	X	Nudo	Hipótesis max cortante Vd max	Hipótesis max cortante Td con	Hipótesis max torsor Td max	Hipótesis max torsor Vd con
VANO 5	0.00	1.00	2471.64	701.27	2252.71	1844.60
VANO 5	1.28	2.00	1976.01	672.69	2172.25	1755.13
VANO 5	2.55	3.00	1863.62	644.35	2093.91	1665.51
VANO 5	3.83	4.00	1762.93	616.27	2017.69	1575.76
VANO 5	5.10	5.00	1665.21	588.45	1943.60	1485.86
VANO 5	5.10	6.00	1665.21	588.45	1943.60	1485.86
VANO 5	6.38	7.00	1568.26	560.93	1871.69	1395.84
VANO 5	7.65	8.00	1470.56	533.67	1801.90	1307.36
VANO 5	8.93	9.00	1361.99	506.65	1734.23	1217.08
VANO 5	10.20	10.00	1254.35	479.88	1668.67	1126.70
VANO 5	10.20	11.00	1254.35	479.88	1668.67	1126.70
VANO 5	11.48	12.00	1147.68	452.96	1604.83	1036.20
VANO 5	12.75	13.00	1042.03	426.60	1543.44	945.60
VANO 5	14.03	14.00	937.44	400.50	1484.16	854.91
VANO 5	15.30	15.00	833.95	374.65	1427.00	764.13
VANO 5	15.30	16.00	817.01	374.65	1427.00	747.19
VANO 5	16.58	17.00	714.66	349.04	1371.95	656.33
VANO 5	17.85	18.00	613.48	323.69	1319.03	565.40
VANO 5	19.13	19.00	513.51	298.58	1268.22	474.41
VANO 5	20.40	20.00	461.27	142.55	1219.53	383.37
VANO 5	20.40	21.00	461.27	142.55	1219.53	383.37
VANO 5	21.68	22.00	533.87	138.73	1179.82	292.29
VANO 5	22.95	23.00	607.89	134.90	1142.43	231.18
VANO 5	24.23	24.00	683.32	131.07	1107.38	110.05
VANO 5	25.50	25.00	415.92	203.67	1074.68	18.91
VANO 5	25.50	26.00	415.92	153.08	1024.10	18.91
VANO 5	26.78	27.00	720.02	129.46	988.33	74.59
VANO 5	28.05	28.00	644.84	106.14	975.22	165.01
VANO 5	29.33	29.00	571.06	83.13	1008.40	256.11
VANO 5	30.60	30.00	498.70	60.41	1043.90	347.17
VANO 5	30.60	31.00	498.70	60.41	1043.90	347.17
VANO 5	31.88	32.00	474.33	146.82	1088.38	438.19
VANO 5	33.15	33.00	574.53	168.05	1134.99	529.15
VANO 5	34.43	34.00	675.91	189.60	1183.75	620.04
VANO 5	35.70	35.00	778.46	212.27	1235.22	710.87
VANO 5	35.70	36.00	778.46	212.27	1235.22	710.87
VANO 5	36.98	37.00	882.13	235.19	1288.81	801.60
VANO 5	38.25	38.00	986.88	258.36	1344.52	892.25
VANO 5	39.53	39.00	1092.69	282.02	1402.58	982.80
VANO 5	40.80	40.00	1199.49	306.98	1463.83	1073.24
VANO 5	40.80	41.00	1199.49	306.98	1463.83	1073.24
VANO 5	42.08	42.00	1307.25	332.19	1527.19	1163.57
VANO 5	43.35	43.00	1415.92	359.16	1594.18	1253.78
VANO 5	44.63	44.00	1525.44	386.37	1663.29	1343.87
VANO 5	45.90	45.00	1635.77	413.84	1734.52	1433.83
VANO 5	45.90	46.00	1635.77	413.84	1734.52	1433.83
VANO 5	47.18	47.00	1746.83	441.55	1807.87	1523.65
VANO 5	48.45	48.00	1858.59	469.51	1883.34	1613.33
VANO 5	49.73	49.00	1970.96	497.72	1960.93	1702.88
VANO 5	51.00	50.00	[illegible]	[illegible]	2040.84	[illegible]
VANO 6	0.00	1.00	2406.83	757.03	2337.01	1742.10
VANO 6	1.20	2.00	1891.68	730.03	2261.00	1657.69
VANO 6	2.40	3.00	1785.62	703.26	2186.94	1573.15
VANO 6	3.60	4.00	1680.19	676.72	2114.84	1488.48
VANO 6	4.80	5.00	1575.43	650.41	2044.70	1403.69
VANO 6	4.80	6.00	1575.43	650.41	2044.70	1403.69
VANO 6	6.00	7.00	1471.41	624.33	1976.50	1318.78
VANO 6	7.20	8.00	1368.16	598.47	1910.27	1233.75
VANO 6	8.40	9.00	1265.78	572.85	1845.99	1148.61
VANO 6	9.60	10.00	1164.26	547.45	1783.66	1063.36
VANO 6	9.60	11.00	1164.26	547.45	1783.66	1063.36
VANO 6	10.80	12.00	1063.67	522.29	1723.29	978.02
VANO 6	12.00	13.00	964.04	497.35	1664.87	892.58
VANO 6	13.20	14.00	865.42	472.64	1608.41	807.06
VANO 6	14.40	15.00	767.84	448.16	1553.90	721.46
VANO 6	14.40	16.00	750.89	448.16	1553.90	704.52
VANO 6	15.60	17.00	654.39	423.91	1501.35	618.85
VANO 6	16.80	18.00	558.99	399.88	1450.76	533.12
VANO 6	18.00	19.00	464.74	376.09	1402.11	447.34
VANO 6	19.20	20.00	477.66	226.51	1355.53	361.51
VANO 6	19.20	21.00	477.66	226.51	1355.53	361.51
VANO 6	20.40	22.00	558.53	207.33	1311.11	275.65
VANO 6	21.60	23.00	640.71	197.25	1268.86	189.76
VANO 6	22.80	24.00	724.21	187.17	1228.77	103.86
VANO 6	24.00	25.00	421.04	260.02	1190.84	17.95
VANO 6	24.00	26.00	421.04	260.02	1190.84	17.95
VANO 6	25.20	27.00	744.38	237.62	1155.08	85.59
VANO 6	26.40	28.00	661.03	215.51	1121.48	172.39
VANO 6	27.60	29.00	579.01	193.68	1103.68	259.16
VANO 6	28.80	30.00	498.29	172.12	1088.18	345.91
VANO 6	28.80	31.00	498.29	172.12	1088.18	345.91
VANO 6	30.00	32.00	444.49	126.71	1074.84	432.61
VANO 6	31.20	33.00	538.90	116.63	1101.40	514.12
VANO 6	32.40	34.00	634.44	128.92	1140.13	591.82
VANO 6	33.60	35.00	731.08	142.87	1180.82	685.45
VANO 6	33.60	36.00	731.08	142.87	1180.82	685.45
VANO 6	34.80	37.00	828.77	157.04	1223.46	771.01
VANO 6	36.00	38.00	927.50	171.45	1268.06	855.49
VANO 6	37.20	39.00	1027.21	191.90	1320.43	941.88
VANO 6	38.40	40.00	1127.88	213.19	1375.36	1027.17
VANO 6	38.40	41.00	1127.88	213.19	1375.36	1027.17
VANO 6	39.60	42.00	1229.45	234.71	1432.24	1112.36
VANO 6	40.80	43.00	1331.89	256.45	1491.08	1197.44
VANO 6	42.00	44.00	1435.15	278.43	1551.87	1282.41
VANO 6	43.20	45.00	1539.17	300.63	1614.61	1367.26
VANO 6	43.20	46.00	1539.17	300.63	1614.61	1367.26
VANO 6	44.40	47.00	1643.90	323.07	1679.31	1451.99
VANO 6	45.60	48.00	1749.29	348.56	1746.52	1536.59
VANO 6	46.80	49.00	1855.28	370.34	1815.72	1621.06

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC / ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC (Vu1, Vcu, Vsu)

	Nudo	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	Dos caras As (Tu2)	Arm long As (Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	Torsor: Vu1	Torsor: Vcu	Torsor: Vsu
VANO 5	1.00	2601.48	379.70	2091.94	4.00	15.46	5900.00	2.85	2.71	0.97	16.89	2601.48	379.70	1464.90
VANO 5	2.00	2601.48	379.70	1596.31	4.00	15.46	5900.00	2.73	2.46	0.72	16.83	2601.48	379.70	1375.43
VANO 5	3.00	2601.48	379.70	1483.92	4.00	15.46	5900.00	2.62	2.22	0.66	16.77	2601.48	379.70	1285.81
VANO 5	4.00	2601.48	379.70	1383.23	4.00	15.46	5900.00	2.50	1.97	0.61	16.71	2601.48	379.70	1196.06
VANO 5	5.00	2601.48	379.70	1285.51	4.00	15.46	5900.00	2.39	1.73	0.56	16.66	2601.48	379.70	1106.16
VANO 5	6.00	2601.48	379.70	1285.51	4.00	15.46	5900.00	2.39	1.73	0.56	16.66	2601.48	379.70	1106.16
VANO 5	7.00	2601.48	379.70	1188.56	4.00	14.30	5900.00	2.28	1.50	0.51	15.44	2601.48	379.70	1016.14
VANO 5	8.00	2601.48	379.70	1090.86	4.00	13.12	5900.00	2.17	1.26	0.47	14.21	2601.48	379.70	927.66
VANO 5	9.00	2601.48	379.70	982.29	4.00	11.82	5900.00	2.06	1.03	0.42	12.84	2601.48	379.70	837.38
VANO 5	10.00	2601.48	379.70	874.65	4.00	10.52	5900.00	1.95	0.79	0.38	11.50	2601.48	379.70	747.00
VANO 5	11.00	2601.48	379.70	874.65	4.00	10.52	5900.00	1.95	0.79	0.38	11.50	2601.48	379.70	747.00
VANO 5	12.00	2601.48	379.70	767.98	4.00	9.24	5900.00	1.84	0.56	0.33	10.16	2601.48	379.70	656.50
VANO 5	13.00	2601.48	379.70	662.33	4.00	7.97	5900.00	1.73	0.33	0.29	8.83	2601.48	379.70	565.90
VANO 5	14.00	2601.48	379.70	557.74	4.00	6.71	5900.00	1.63	0.11	0.25	7.52	2601.48	379.70	475.21
VANO 5	15.00	2601.48	379.70	454.25	4.00	5.46	5900.00	1.52	0.00	0.21	6.22	2601.48	379.70	384.43
VANO 5	16.00	2601.48	379.70	437.31	4.00	5.26	5900.00	1.52	0.00	0.21	6.02	2601.48	379.70	367.49
VANO 5	17.00	2601.48	379.70	334.96	4.00	4.03	5900.00	1.42	0.00	0.17	4.74	2601.48	379.70	276.63
VANO 5	18.00	2601.48	379.70	233.78	4.00	2.81	6900.00	1.31	0.00	0.14	3.47	2601.48	379.70	185.70
VANO 5	19.00	2601.48	379.70	133.81	4.00	1.61	5900.00	1.21	0.00	0.11	2.22	2601.48	379.70	94.71
VANO 5	20.00	2601.48	379.70	81.57	4.00	0.98	5900.00	0.58	0.00	0.09	1.27	2601.48	379.70	3.67
VANO 5	21.00	2601.48	379.70	81.57	4.00	0.98	5900.00	0.58	0.00	0.09	1.27	2601.48	379.70	3.67
VANO 5	22.00	2601.48	379.70	154.17	4.00	1.85	5900.00	0.56	0.00	0.11	2.14	2601.48	379.70	0.00
VANO 5	23.00	2601.48	379.70	228.19	4.00	2.74	5900.00	0.55	0.00	0.13	3.02	2601.48	379.70	0.00
VANO 5	24.00	2601.48	379.70	303.62	4.00	3.65	5900.00	0.53	0.00	0.15	3.92	2601.48	379.70	0.00
VANO 5	25.00	2601.48	379.70	36.22	4.00	0.44	5900.00	0.83	0.00	0.08	0.85	2601.48	379.70	0.00
VANO 5	26.00	2601.48	379.70	36.22	4.00	0.44	5900.00	0.62	0.00	0.08	0.75	2601.48	379.70	0.00
VANO 5	27.00	2601.48	379.70	340.32	4.00	4.09	5900.00	0.53	0.00	0.16	4.36	2601.48	379.70	0.00
VANO 5	28.00	2601.48	379.70	265.14	4.00	3.19	5900.00	0.43	0.00	0.14	3.40	2601.48	379.70	0.00
VANO 5	29.00	2601.48	379.70	191.36	4.00	2.30	5900.00	0.34	0.00	0.11	2.47	2601.48	379.70	0.00
VANO 5	30.00	2601.48	379.70	119.00	4.00	1.43	5900.00	0.25	0.00	0.09	1.55	2601.48	379.70	0.00
VANO 5	31.00	2601.48	379.70	119.00	4.00	1.43	5900.00	0.25	0.00	0.09	1.55	2601.48	379.70	0.00
VANO 5	32.00	2601.48	379.70	94.63	4.00	1.14	5900.00	0.60	0.00	0.09	1.44	2601.48	379.70	58.49
VANO 5	33.00	2601.48	379.70	194.83	4.00	2.34	5900.00	0.68	0.00	0.12	2.68	2601.48	379.70	149.45
VANO 5	34.00	2601.48	379.70	296.21	4.00	3.56	5900.00	0.77	0.00	0.15	3.95	2601.48	379.70	240.34
VANO 5	35.00	2601.48	379.70	398.76	4.00	4.80	5900.00	0.86	0.00	0.18	5.23	2601.48	379.70	331.17
VANO 5	36.00	2601.48	379.70	398.76	4.00	4.80	5900.00	0.86	0.00	0.18	5.23	2601.48	379.70	331.17
VANO 5	37.00	2601.48	379.70	502.43	4.00	6.04	5900.00	0.95	0.00	0.22	6.52	2601.48	379.70	421.90
VANO 5	38.00	2601.48	379.70	607.18	4.00	7.30	5900.00	1.05	0.00	0.26	7.83	2601.48	379.70	512.55
VANO 5	39.00	2601.48	379.70	712.99	4.00	8.58	5900.00	1.14	0.00	0.30	9.15	2601.48	379.70	603.10
VANO 5	40.00	2601.48	379.70	819.79	4.00	9.86	5900.00	1.25	0.00	0.34	10.48	2601.48	379.70	693.54
VANO 5	41.00	2601.48	379.70	819.79	4.00	9.86	5900.00	1.25	0.00	0.34	10.48	2601.48	379.70	693.54
VANO 5	42.00	2601.48	379.70	927.55	4.00	11.16	5900.00	1.35	0.00	0.39	11.83	2601.48	379.70	783.87
VANO 5	43.00	2601.48	379.70	1036.22	4.00	12.46	5900.00	1.46	0.00	0.43	13.19	2601.48	379.70	874.08
VANO 5	44.00	2601.48	379.70	1145.74	4.00	13.78	5900.00	1.57	0.00	0.48	14.57	2601.48	379.70	964.17
VANO 5	45.00	2601.48	379.70	1256.07	4.00	15.11	5900.00	1.68	0.22	0.53	15.95	2601.48	379.70	1054.13
VANO 5	46.00	2601.48	379.70	1256.07	4.00	15.11	5900.00	1.68	0.22	0.53	15.95	2601.48	379.70	1054.13
VANO 5	47.00	2601.48	379.70	1367.13	4.00	15.11	5900.00	1.79	0.46	0.59	16.01	2601.48	379.70	1143.95
VANO 5	48.00	2601.48	379.70	1478.89	4.00	15.11	5900.00	1.91	0.70	0.64	16.06	2601.48	379.70	1233.63
VANO 5	49.00	2601.48	379.70	1591.26	4.00	15.11	5900.00	2.02	0.95	0.70	16.12	2601.48	379.70	1323.18
VANO 5	50.00	2601.48	379.70	[illegible]	4.00	15.11	5900.00	2.14	1.19	0.96	16.18	2601.48	379.70	1412.57
VANO 6	1.00	2601.48	379.70	2027.13	4.00	14.38	5900.00	3.07	3.19	0.95	15.92	2601.48	379.70	1362.40
VANO 6	2.00	2601.48	379.70	1511.98	4.00	14.38	5900.00	2.96	2.96	0.68	15.87	2601.48	379.70	1277.99
VANO 6	3.00	2601.48	379.70	1405.92	4.00	14.38	5900.00	2.85	2.73	0.63	15.81	2601.48	379.70	1193.45
VANO 6	4.00	2601.48	379.70	1300.49	4.00	14.38	5900.00	2.75	2.50	0.58	15.76	2601.48	379.70	1108.78
VANO 6	5.00	2601.48	379.70	1195.73	4.00	14.38	5900.00	2.64	2.27	0.53	15.70	2601.48	379.70	1023.99
VANO 6	6.00	2601.48	379.70	1195.73	4.00	14.38	5900.00	2.64	2.27	0.53	15.70	2601.48	379.70	1023.99
VANO 6	7.00	2601.48	379.70	1091.71	4.00	13.13	5900.00	2.53	2.04	0.48	14.40	2601.48	379.70	939.08
VANO 6	8.00	2601.48	379.70	988.48	4.00	11.89	5900.00	2.43	1.82	0.43	13.11	2601.48	379.70	854.05
VANO 6	9.00	2601.48	379.70	886.08	4.00	10.66	5900.00	2.33	1.60	0.39	11.82	2601.48	379.70	768.91
VANO 6	10.00	2601.48	379.70	784.56	4.00	9.44	5900.00	2.22	1.38	0.35	10.55	2601.48	379.70	683.66
VANO 6	11.00	2601.48	379.70	784.56	4.00	9.44	5900.00	2.22	1.38	0.35	10.55	2601.48	379.70	683.66
VANO 6	12.00	2601.48	379.70	683.97	4.00	8.23	5900.00	2.12	1.16	0.30	9.29	2601.48	379.70	598.32
VANO 6	13.00	2601.48	379.70	584.34	4.00	7.03	5900.00	2.02	0.95	0.27	8.04	2601.48	379.70	512.88
VANO 6	14.00	2601.48	379.70	485.72	4.00	5.84	5900.00	1.92	0.73	0.23	6.80	2601.48	379.70	427.36
VANO 6	15.00	2601.48	379.70	388.14	4.00	4.67	5900.00	1.82	0.52	0.20	5.58	2601.48	379.70	341.76
VANO 6	16.00	2601.48	379.70	371.19	4.00	4.47	5900.00	1.82	0.52	0.19	5.37	2601.48	379.70	324.82
VANO 6	17.00	2601.48	379.70	274.69	4.00	3.30	5900.00	1.72	0.31	0.16	4.16	2601.48	379.70	239.15
VANO 6	18.00	2601.48	379.70	179.29	4.00	2.16	5900.00	1.62	0.10	0.13	2.97	2601.48	379.70	153.42
VANO 6	19.00	2601.48	379.70	85.04	4.00	1.02	5900.00	1.53	0.00	0.10	1.79	2601.48	379.70	67.64
VANO 6	20.00	2601.48	379.70	97.96	4.00	1.18	5900.00	0.92	0.00	0.10	1.64	2601.48	379.70	0.00
VANO 6	21.00	2601.48	379.70	97.96	4.00	1.18	5900.00	0.92	0.00	0.10	1.64	2601.48	379.70	0.00
VANO 6	22.00	2601.48	379.70	178.83	4.00	2.15	5900.00	0.84	0.00	0.12	2.57	2601.48	379.70	0.00
VANO 6	23.00	2601.48	379.70	261.01	4.00	3.14	5900.00	0.80	0.00	0.14	3.54	2601.48	379.70	0.00
VANO 6	24.00	2601.48	379.70	344.51	4.00	4.14	5900.00	0.76	0.00	0.16	4.52	2601.48	379.70	0.00
VANO 6	25.00	2601.48	379.70	41.34	4.00	0.50	5900.00	1.06	0.00	0.08	1.02	2601.48	379.70	0.00
VANO 6	26.00	2601.48	379.70	41.34	4.00	0.50	5900.00	1.06	0.00	0.08	1.02	2601.48	379.70	0.00
VANO 6	27.00	2601.48	379.70	364.68	4.00	4.39	5900.00	0.96	0.00	0.17	4.87	2601.48	379.70	0.00
VANO 6	28.00	2601.48	379.70	281.33	4.00	3.38	5900.00	0.87	0.00	0.15	3.82	2601.48	379.70	0.00
VANO 6	29.00	2601.48	379.70	199.31	4.00	2.40	5900.00	0.79	0.00	0.12	2.79	2601.48	379.70	0.00
VANO 6	30.00	2601.48	379.70	118.59	4.00	1.43	5900.00	0.70	0.00	0.10	1.78	2601.48	379.70	0.00
VANO 6	31.00	2601.48	379.70	118.59	4.00	1.43	5900.00	0.70	0.00	0.10	1.78	2601.48	379.70	0.00
VANO 6	32.00	2601.48	379.70	64.79	4.00	0.78	5900.00	0.51	0.00	0.08	1.04	2601.48	379.70	52.91
VANO 6	33.00	2601.48	379.70	159.20	4.00	1.92	5900.00	0.47	0.00	0.11	2.15	2601.48	379.70	134.42
VANO 6	34.00	2601.48	379.70	254.74	4.00	3.06	5900.00	0.52	0.00	0.13	3.33	2601.48	379.70	220.12
VANO 6	35.00	2601.48	379.70	351.38	4.00	4.23	5900.00	0.58	0.00	0.16	4.52	2601.48	379.70	305.75
VANO 6	36.00	2601.48	379.70	351.38	4.00	4.23	5900.00	0.58	0.00	0.16	4.52	2601.48	379.70	305.75
VANO 6	37.00	2601.48	379.70	449.07	4.00	5.40	5900.00,	0.64	0.00	0.20	5.72	2601.48	379.70	391.31
VANO 6	38.00	2601.48	379.70	547.80	4.00	6.59	5900.00	0.70	0.00	0.23	6.94	2601.48	379.70	476.79
VANO 6	39.00	2601.48	379.70	647.51	4.00	7.79	5900.00	0.78	0.00	0.27	8.18	2601.48	379.70	562.18
VANO 6	40.00	2601.48	379.70	748.18	4.00	9.00	5900.00	0.87	0.00	0.31	9.43	2601.48	379.70	647.47
VANO 6	41.00	2601.48	379.70	748.18	4.00	9.00	5900.00	0.87	0.00	0.31	9.43	2601.48	379.70	647.47
VANO 6	42.00	2601.48	379.70	849.75	4.00	10.22	5900.00	0.95	0.00	0.35	10.70	2601.48	379.70	732.66
VANO 6	43.00	2601.48	379,70	952.19	4.00	11.45	5900.00	1.04	0.00	0.39	11.97	2601.48	379.70	817.74
VANO 6	44.00	2601.48	379.70	1055.45	4.00	12.70	5900.00	1.13	0.00	0.44	13.26	2601.48	379.70	902.71
VANO 6	45.00	2601.48	379.70	1159.47	4.00	13.95	5900.00	1.22	0.00	0.48	14.56	2601.48	379.70	987.56
VANO 6	46.00	2601.48	379.70	1159.47	4.00	13.95	5900.00	1.22	0.00	0.48	14.56	2601.48	379.70	987.56
VANO 6	47.00	2601.48	379.70	1264.20	4.00	13.95	5900.00	1.31	0.00	0.53	14.60	2601.48	379.70	1072.29
VANO 6	48.00	2601.48	379.70	1369.59	4.00	13.95	5900.00	1.41	0.00	0.58	14.65	2601.48	379.70	1156.89
VANO 6	49.00	2601.48	379.70	1475.58	4.00	13.95	5900.00	1.50	0.00	0.63	14.70	2601.48	379.70	1241.36

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC (cont.) / FLEXIÓN TRANS / ARMADO DEFINITIVO

	Nudo	Ramas	Una rama As Cerc	Tu1	Dos caras As (Tu2)	Arm long As(Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	FLEXIÓN TRANS As ext	FLEXIÓN TRANS As int	ARMADO DEFINITIVO As ext	ARMADO DEFINITIVO As int	ARMADO DEFINITIVO As long/m
VANO 5	1.00	4.00	13.31	5900.00	9.14	16.13	0.86	17.88	10.15	15.07	17.88	17.88	16.13
VANO 5	2.00	4.00	13.31	5900.00	8.82	15.44	0.80	17.72	10.15	15.07	17.72	17.72	15.44
VANO 5	3.00	4.00	13.31	5900.00	8.50	14.76	0.75	17.56	10.15	15.07	17.56	17.56	14.76
VANO 5	4.00	4.00	13.31	5900.00	8.19	14.10	0.70	17.40	10.15	15.07	17.40	17.40	14.10
VANO 5	5.00	4.00	13.31	5900.00	7.89	13.46	0.65	17.25	10.15	15.07	17.25	17.25	13.46
VANO 5	6.00	4.00	13.31	5900.00	7.89	13.46	0.65	17.25	10.15	15.07	17.25	17.25	13.46
VANO 5	7.00	4.00	12.22	5900.00	7.60	12.84	0.60	16.02	10.15	15.07	16.02	16.02	12.84
VANO 5	8.00	4.00	11.16	5900.00	7.31	12.23	0.55	14.82	10.15	15.07	14.82	15.07	12.23
VANO 5	9.00	4.00	10.07	5900.00	7.04	11.65	0.50	13.59	10.15	15.07	13.59	15.07	11.65
VANO 5	10.00	4.00	8.99	5900.00	6.77	11.08	0.46	12.37	10.15	15.07	12.37	15.07	11.08
VANO 5	11.00	4.00	8.99	5900.00	6.77	11.08	0.46	12.37	10.15	15.07	12.37	15.07	11.08
VANO 5	12.00	4.00	7.90	5900.00	6.51	10.53	0.42	11.15	10.15	15.07	11.15	15.07	10.53
VANO 5	13.00	4.00	6.81	5900.00	6.27	10.00	0.38	9.94	10.15	15.07	10.15	15.07	10.00
VANO 5	14.00	4.00	5.72	5900.00	6.02	9.48	0.34	8.73	10.15	15.07	10.15	15.07	9.48
VANO 5	15.00	4.00	4.62	5900.00	5.79	8.99	0.30	7.52	10.15	15.07	10.15	15.07	8.99
VANO 5	16.00	4.00	4.42	5900.00	5.79	8.99	0.29	7.32	10.15	15.07	10.15	15.07	8.99
VANO 5	17.00	4.00	3.33	5900.00	5.57	8.51	0.26	6.11	10.15	15.07	10.15	15.07	8.51
VANO 5	18.00	4.00	2.23	5900.00	5.35	8.05	0.23	4.91	10.15	15.07	10.15	15.07	8.05
VANO 5	19.00	4.00	1.14	5900.00	5.15	7.62	0.19	3.71	10.15	15.07	10.15	15.07	7.62
VANO 5	20.00	4.00	0.04	5900.00	4.95	7.19	0.17	2.52	10.15	15.07	10.15	15.07	7.19
VANO 5	21.00	4.00	0.04	5900.00	4.95	7.19	0.17	2.52	10.15	15.07	10.15	15.07	7.19
VANO 5	22.00	4.00	0.00	5900.00	4.79	6.85	0.14	2.39	10.15	15.07	10.15	15.07	6.85
VANO 5	23.00	4.00	0.00	5900.00	4.64	6.53	0.12	2.32	10.15	15.07	10.15	15.07	6.53
VANO 5	24.00	4.00	0.00	5900.00	4.50	6.22	0.10	2.25	10.15	15.07	10.15	15.07	6.22
VANO 5	25.00	4.00	0.00	5900.00	4.36	5.94	0.09	2.18	10.15	15.07	10.15	15.07	5.94
VANO 5	26.00	4.00	0.00	5900.00	4.16	5.50	0.08	2.08	10.15	15.07	10.15	15.07	5.50
VANO 5	27.00	4.00	0.00	5900.00	4.01	5.19	0.08	2.01	10.15	15.07	10.15	15.07	5.19
VANO 5	28.00	4.00	0.00	5900.00	3.96	5.08	0.09	1.98	10.15	15.07	10.15	15.07	5.08
VANO 5	29.00	4.00	0.00	5900.00	4.09	5.37	0.11	2.05	10.15	15.07	10.15	15.07	5.37
VANO 5	30.00	4.00	0.00	5900.00	4.24	5.67	0.14	2.12	10.15	15.07	10.15	15.07	5.67
VANO 5	31.00	4.00	0.00	5900.00	4.24	5.67	0.14	2.12	10.15	15.07	10.15	15.07	5.67
VANO 5	32.00	4.00	0.70	5900.00	4.42	6.06	0.16	2.91	10.15	15.07	10.15	15.07	6.06
VANO 5	33.00	4.00	1.80	5900.00	4.61	6.46	0.19	4.10	10.15	15.07	10.15	15.07	6.46
VANO 5	34.00	4.00	2.89	5900.00	4.81	6.88	0.22	5.29	10.15	15.07	10.15	15.07	6.88
VANO 5	35.00	4.00	3.98	5900.00	5.01	7.33	0.26	6.49	10.15	15.07	10.15	15.07	7.33
VANO 5	36.00	4.00	3.98	5900.00	5.01	7.33	0.26	6.49	10.15	15.07	10.15	15.07	7.33
VANO 5	37.00	4.00	5.08	5900.00	5.23	7.79	0.29	7.69	10.15	15.07	10.15	15.07	7.79
VANO 5	38.00	4.00	6.17	5900.00	5.46	8.28	0.33	8.89	10.15	15.07	10.15	15.07	8.28
VANO 5	39.00	4.00	7.25	5900.00	5.69	8.78	0.37	10.10	10.15	15.07	10.15	15.07	8.78
VANO 5	40.00	4.00	8.34	5900.00	5.94	9.31	0.41	11.31	10.15	15.07	11.31	15.07	9.31
VANO 5	41.00	4.00	8.34	5900.00	5.94	9.31	0.41	11.31	10.15	15.07	11.31	15.07	9.31
VANO 5	42.00	4.00	9.43	5900.00	6.20	9.86	0.45	12.53	10.15	15.07	12.53	15.07	9.86
VANO 5	43.00	4.00	10.51	5900.00	6.47	10.44	0.50	13.75	10.15	15.07	13.75	15.07	10.44
VANO 5	44.00	4.00	11.60	5900.00	6.75	11.03	0.55	14.97	10.15	15.07	14.97	15.07	11.03
VANO 5	45.00	4.00	12.68	5900.00	7.04	11.65	0.59	16.20	10.15	15.07	16.20	16.20	11.65
VANO 5	46.00	4.00	12.68	5900.00	7.04	11.65	0.59	16.20	10.15	15.07	16.20	16.20	11.65
VANO 5	47.00	4.00	12.68	5900.00	7.34	12.28	0.64	16.35	10.15	15.07	16.35	16.35	12.28
VANO 5	48.00	4.00	12.68	5900.00	7.64	12.94	0.69	16.50	10.15	15.07	16.50	16.50	12.94
VANO 5	49.00	4.00	12.68	5900.00	7.96	13.61	0.75	16.66	10.15	15.07	16.66	16.66	13.61
VANO 5	50.00	4.00	12.68	5900.00	8.26	14.30	0.80	16.82	10.15	15.07	16.82	16.82	14.30
VANO 6	1.00	4.00	12.32	5900.00	9.49	16.86	0.82	17.06	10.15	15.07	17.06	17.06	16.86
VANO 6	2.00	4.00	12.32	5900.00	9.18	16.21	0.77	16.91	10.15	15.07	16.91	16.91	16.21
VANO 6	3.00	4.00	12.32	5900.00	8.88	15.56	0.72	16.76	10.15	15.07	16.76	16.76	15.56
VANO 6	4.00	4.00	12.32	5900.00	8.58	14.94	0.67	16.61	10.15	15.07	16.61	16.61	14.94
VANO 6	5.00	4.00	12.32	5900.00	8.30	14.33	0.63	16.47	10.15	15.07	16.47	16.47	14.33
VANO 6	6.00	4.00	12.32	5900.00	8.30	14.33	0.63	16.47	10.15	15.07	16.47	16.47	14.33
VANO 6	7.00	4.00	11.30	5900.00	8.02	13.74	0.58	15.31	10.15	15.07	15.31	15.31	13.74
VANO 6	8.00	4.00	10.27	5900.00	7.75	13.17	0.54	14.15	10.15	15.07	14.15	15.07	13.17
VANO 6	9.00	4.00	9.25	5900.00	7.49	12.61	0.49	13.00	10.15	15.07	13.00	15.07	12.61
VANO 6	10.00	4.00	8.22	5900.00	7.24	12.08	0.45	11.84	10.15	15.07	11.84	15.07	12.08
VANO 6	11.00	4.00	8.22	5900.00	7.24	12.08	0.45	11.84	10.15	15.07	11.84	15.07	12.08
VANO 6	12.00	4.00	7.20	5900.00	7.00	11.55	0.41	10.69	10.15	15.07	10.69	15.07	11.55
VANO 6	13.00	4.00	6.17	5900.00	6.76	11.05	0.37	9.55	10.15	15.07	10.15	15.07	11.05
VANO 6	14.00	4.00	5.14	5900.00	6.53	10.56	0.34	8.41	10.15	15.07	10.15	15.07	10.56
VANO 6	15.00	4.00	4.11	5900.00	6.31	10.09	0.30	7.26	10.15	15.07	10.15	15.07	10.09
VANO 6	16.00	4.00	3.91	5900.00	6.31	10.09	0.30	7.06	10.15	15.07	10.15	15.07	10.09
VANO 6	17.00	4.00	2.88	5900.00	6.09	9.63	0.26	5.92	10.15	15.07	10.15	15.07	9.63
VANO 6	18.00	4.00	1.85	5900.00	5.89	9.19	0.23	4.79	10.15	15.07	10.15	15.07	9.19
VANO 6	19.00	4.00	0.81	5900.00	5.69	8.77	0.20	3.66	10.15	15.07	10.15	15.07	8.77
VANO 6	20.00	4.00	0.00	5900.00	5.50	8.37	0.18	2.75	10.15	15.07	10.15	15.07	8.37
VANO 6	21.00	4.00	0.00	5900.00	5.50	8.37	0.18	2.75	10.15	15.07	10.15	15.07	8.37
VANO 6	22.00	4.00	0.00	5900.00	5.32	7.99	0.15	2.66	10.15	15.07	10.15	15.07	7.99
VANO 6	23.00	4.00	0.00	5900.00	5.15	7.62	0.13	2.58	10.15	15.07	10.15	15.07	7.62
VANO 6	24.00	4.00	0.00	5900.00	4.99	7.27	0.11	2.49	10.15	15.07	10.15	15.07	7.27
VANO 6	25.00	4.00	0.00	5900.00	4.83	6.95	0.10	2.42	10.15	15.07	10.15	15.07	6.95
VANO 6	26.00	4.00	0.00	5900.00	4.83	6.95	0.10	2.42	10.15	15.07	10.15	15.07	6.95
VANO 6	27.00	4.00	0.00	5900.00	4.69	6.64	0.10	2.34	10.15	15.07	10.15	15.07	6.64
VANO 6	28.00	4.00	0.00	5900.00	4.55	6.35	0.11	2.28	10.15	15.07	10.15	15.07	6.35
VANO 6	29.00	4.00	0.00	5900.00	4.48	6.19	0.12	2.24	10.15	15.07	10.15	15.07	6.19
VANO 6	30.00	4.00	0.00	5900.00	4.42	6.06	0.14	2.21	10.15	15.07	10.15	15.07	6.06
VANO 6	31.00	4.00	0.00	5900.00	4.42	6.06	0.14	2.21	10.15	15.07	10.15	15.07	6.06
VANO 6	32.00	4.00	0.64	5900.00	4.36	5.94	0.16	2.82	10.15	15.07	10.15	15.07	5.94
VANO 6	33.00	4.00	1.62	5900.00	4.47	6.17	0.18	3.85	10.15	15.07	10.15	15.07	6.17
VANO 6	34.00	4.00	2.65	5900.00	4.63	6.51	0.21	4.96	10.15	15.07	10.15	15.07	6.51
VANO 6	35.00	4.00	3.68	5900.00	4.79	6.86	0.24	6.07	10.15	15.07	10.15	15.07	6.86
VANO 6	36.00	4.00	3.68	5900.00	4.79	6.86	0.24	6.07	10.15	15.07	10.15	15.07	6.86
VANO 6	37.00	4.00	4.71	5900.00	4.97	7.23	0.28	7.19	10.15	15.07	10.15	15.07	7.23
VANO 6	38.00	4.00	5.74	5900.00	5.15	7.61	0.31	8.31	10.15	15.07	10.15	15.07	7.61
VANO 6	39.00	4.00	6.76	5900.00	5.36	8.07	0.35	9.44	10.15	15.07	10.15	15.07	8.07
VANO 6	40.00	4.00	7.79	5900.00	5.58	8.54	0.38	10.58	10.15	15.07	10.58	15.07	8.54
VANO 6	41.00	4.00	7.79	5900.00	5.58	8.54	0.38	10.58	10.15	15.07	10.58	15.07	8.54
VANO 6	42.00	4.00	8.81	5900.00	5.81	9.03	0.42	11.72	10.15	15.07	11.72	15.07	9.03
VANO 6	43.00	4.00	9.84	5900.00	6.05	9.54	0.46	12.86	10.15	15.07	12.86	15.07	9.54
VANO 6	44.00	4.00	10.86	5900.00	6.30	10.07	0.51	14.01	10.15	15.07	14.01	15.07	10.07
VANO 6	45.00	4.00	11.88	5900.00	6.55	10.61	0.55	15.16	10.15	15.07	15.16	15.16	10.61
VANO 6	46.00	4.00	11.88	5900.00	6.55	10.61	0.55	15.16	10.15	15.07	15.16	15.16	10.61
VANO 6	47.00	4.00	11.88	5900.00	6.82	11.17	0.59	15.29	10.15	15.07	15.29	15.29	11.17
VANO 6	48.00	4.00	11.88	5900.00	7.09	11.75	0.64	15.42	10.15	15.07	15.42	15.42	11.75
VANO 6	49.00	4.00	11.88	5900.00	7.37	12.35	0.69	15.56	10.15	15.07	15.56	15.56	12.35

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20 008	24.9687
ys	1.495	1.754
yi	2 505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28 5	28.5
% TESADO	0.8	0 75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS DE SECCIÓN

CARACTERISTICAS CORTANTE.

Can eficaz =	3.875	cotg tetha =	1.46
Brazo mec =	3.4875	Vu1	2601.48167
fyd cercos =	40816.3	Vcu	379.7
fck (t/m2) =	4081.6	N º ramas =	4

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC — **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** — **FLEXIÓN TRANS** — **ARMADO DEFINITIVO**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	Dos caras As (Tu2)	Arm long As (Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	Vu1	Vcu	Vsu	Ramas	Una rama As Cerc	Tu1	Dos caras As (Tu2)	Arm long As(Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	FLEXIÓN TRANS As ext	As int	ARMADO DEFINITIVO As ext	As int	As long/m
VANO 7	0.00	1.00	2316.53	710.45	2345.43	1717.32	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08	2601.48	379.70	1337.62	4.00	12.02	5900.00	9.52	16.94	0.81	16.78	10.15	15.07	16.78	16.78	16.94
VANO 7	1.20	2.00	1801.53	683.29	2269.69	1632.98	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03	2601.48	379.70	1253.28	4.00	12.02	5900.00	9.21	16.28	0.76	16.63	10.15	15.07	16.63	16.63	16.28
VANO 7	2.40	3.00	1698.44	656.36	2195.90	1548.51	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97	2601.48	379.70	1168.81	4.00	12.02	5900.00	8.91	15.64	0.71	16.48	10.15	15.07	16.48	16.48	15.64
VANO 7	3.60	4.00	1605.64	629.66	2124.05	1433.91	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92	2601.48	379.70	1084.21	4.00	12.02	5900.00	8.62	15.02	0.66	16.33	10.15	15.07	16.33	16.33	15.02
VANO 7	4.80	5.00	1513.50	603.18	2054.14	1379.18	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	999.48	4.00	12.02	5900.00	8.34	14.42	0.62	16.19	10.15	15.07	16.19	16.19	14.42
VANO 7	4.80	6.00	1513.50	603.18	2054.14	1379.18	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	999.48	4.00	12.02	5900.00	8.34	14.42	0.62	16.19	10.15	15.07	16.19	16.19	14.42
VANO 7	6.00	7.00	1422.07	576.92	1986.18	1234.33	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71	2601.48	379.70	914.63	4.00	11.00	5900.00	8.06	13.83	0.57	15.03	10.15	15.07	15.03	15.07	13.83
VANO 7	7.20	8.00	1331.41	550.89	1920.16	1209.36	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57	2601.48	379.70	829.66	4.00	9.98	5900.00	7.79	13.26	0.53	13.88	10.15	15.07	13.88	15.07	13.26
VANO 7	8.40	9.00	1232.18	525.09	1856.09	1124.26	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32	2601.48	379.70	744.58	4.00	8.96	5900.00	7.53	12.70	0.49	12.72	10.15	15.07	12.72	15.07	12.70
VANO 7	9.60	10.00	1130.68	499.51	1793.96	1039.09	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	659.39	4.00	7.93	5900.00	7.28	12.16	0.44	11.57	10.15	15.07	11.57	15.07	12.16
VANO 7	9.60	11.00	1130.68	499.51	1793.96	1039.09	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	659.39	4.00	7.93	5900.00	7.28	12.16	0.44	11.57	10.15	15.07	11.57	15.07	12.16
VANO 7	10.80	12.00	1030.10	474.16	1733.77	953.80	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79	2601.48	379.70	574.10	4.00	6.91	5900.00	7.04	11.64	0.41	10.42	10.15	15.07	10.42	15.07	11.64
VANO 7	12.00	13.00	930.46	449.04	1675.52	868.42	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54	2601.48	379.70	488.72	4.00	5.88	5900.00	6.80	11.14	0.37	9.28	10.15	15.07	10.15	15.07	11.14
VANO 7	13.20	14.00	831.83	424.14	1619.22	782.95	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30	2601.48	379.70	403.25	4.00	4.85	5900.00	6.57	10.65	0.33	8.14	10.15	15.07	10.15	15.07	10.65
VANO 7	14.40	15.00	734.22	399.46	1564.86	697.40	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08	2601.48	379.70	317.70	4.00	3.82	5900.00	6.35	10.18	0.30	7.00	10.15	15.07	10.15	15.07	10.18
VANO 7	14.40	16.00	717.28	399.46	1564.86	680.45	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87	2601.48	379.70	300.75	4.00	3.62	5900.00	6.35	10.18	0.29	6.79	10.15	15.07	10.15	15.07	10.18
VANO 7	15.60	17.00	620.74	375.01	1512.44	594.83	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66	2601.48	379.70	215.13	4.00	2.59	5900.00	6.14	9.73	0.26	5.66	10.15	15.07	10.15	15.07	9.73
VANO 7	16.80	18.00	525.30	350.79	1461.97	509.14	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46	2601.48	379.70	129.44	4.00	1.56	5900.00	5.93	9.29	0.23	4.52	10.15	15.07	10.15	15.07	9.29
VANO 7	18.00	19.00	430.99	326.79	1413.44	423.39	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28	2601.48	379.70	43.69	4.00	0.53	5900.00	5.74	8.87	0.20	3.39	10.15	15.07	10.15	15.07	8.87
VANO 7	19.20	20.00	489.77	177.07	1366.96	337.60	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.55	8.47	0.17	2.77	10.15	15.07	10.15	15.07	8.47
VANO 7	19.20	21.00	489.77	177.07	1366.96	337.60	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.55	8.47	0.17	2.77	10.15	15.07	10.15	15.07	8.47
VANO 7	20.40	22.00	567.43	166.70	1322.63	251.77	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60	2601.48	379.70	0.00	4.00	0.00	5900.00	5.37	8.09	0.15	2.68	10.15	15.07	10.15	15.07	8.09
VANO 7	21.60	23.00	646.40	156.32	1280.45	165.91	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53	2601.48	379.70	0.00	4.00	0.00	5900.00	5.20	7.72	0.13	2.60	10.15	15.07	10.15	15.07	7.72
VANO 7	22.80	24.00	726.69	145.95	1240.42	80.03	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47	2601.48	379.70	0.00	4.00	0.00	5900.00	5.04	7.37	0.11	2.52	10.15	15.07	10.15	15.07	7.37
VANO 7	24.00	25.00	399.83	135.57	1202.55	0.26	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.88	7.05	0.10	2.44	10.15	15.07	10.15	15.07	7.05
VANO 7	24.00	26.00	399.83	135.57	1202.55	0.26	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.88	7.05	0.10	2.44	10.15	15.07	10.15	15.07	7.05
VANO 7	25.20	27.00	711.62	187.04	1166.82	97.04	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.74	6.74	0.10	2.37	10.15	15.07	10.15	15.07	6.74
VANO 7	26.40	28.00	631.31	164.70	1134.92	183.82	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36	2601.48	379.70	0.00	4.00	0.00	5900.00	4.61	6.46	0.11	2.30	10.15	15.07	10.15	15.07	6.46
VANO 7	27.60	29.00	552.32	142.63	1120.16	270.58	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.55	6.33	0.13	2.27	10.15	15.07	10.15	15.07	6.33
VANO 7	28.80	30.00	474.65	120.83	1107.55	357.31	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.50	6.22	0.15	2.25	10.15	15.07	10.15	15.07	6.22
VANO 7	28.80	31.00	474.65	120.83	1107.55	357.31	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.50	6.22	0.15	2.25	10.15	15.07	10.15	15.07	6.22
VANO 7	30.00	32.00	441.60	111.38	1097.08	444.01	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97	2601.48	379.70	64.31	4.00	0.77	5900.00	4.45	6.13	0.17	3.00	10.15	15.07	10.15	15.07	6.13
VANO 7	31.20	33.00	535.90	124.89	1117.11	525.19	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13	2601.48	379.70	145.49	4.00	1.75	5900.00	4.53	6.31	0.19	4.02	10.15	15.07	10.15	15.07	6.31
VANO 7	32.40	34.00	631.32	143.44	1155.96	610.89	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32	2601.48	379.70	231.19	4.00	2.78	5900.00	4.69	6.64	0.22	5.13	10.15	15.07	10.15	15.07	6.64
VANO 7	33.60	35.00	727.84	163.77	1196.76	696.51	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	316.81	4.00	3.81	5900.00	4.86	7.00	0.25	6.24	10.15	15.07	10.15	15.07	7.00
VANO 7	33.60	36.00	727.84	163.77	1196.76	696.51	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	316.81	4.00	3.81	5900.00	4.86	7.00	0.25	6.24	10.15	15.07	10.15	15.07	7.00
VANO 7	34.80	37.00	825.43	184.39	1239.50	782.07	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74	2601.48	379.70	402.37	4.00	4.84	5900.00	5.03	7.37	0.28	7.36	10.15	15.07	10.15	15.07	7.37
VANO 7	36.00	38.00	924.05	205.23	1284.18	867.55	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96	2601.48	379.70	487.85	4.00	5.87	5900.00	5.21	7.75	0.32	8.47	10.15	15.07	10.15	15.07	7.75
VANO 7	37.20	39.00	1023.67	226.30	1330.81	952.93	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21	2601.48	379.70	573.23	4.00	6.90	5900.00	5.40	8.16	0.35	9.60	10.15	15.07	10.15	15.07	8.16
VANO 7	38.40	40.00	1124.25	247.59	1381.16	1038.23	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	658.53	4.00	7.92	5900.00	5.61	8.59	0.39	10.72	10.15	15.07	10.72	15.07	8.59
VANO 7	38.40	41.00	1124.25	247.59	1381.16	1038.23	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	658.53	4.00	7.92	5900.00	5.61	8.59	0.39	10.72	10.15	15.07	10.72	15.07	8.59
VANO 7	39.60	42.00	1225.73	269.50	1438.03	1123.42	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72	2601.48	379.70	743.72	4.00	8.95	5900.00	5.84	9.08	0.43	11.87	10.15	15.07	11.87	15.07	9.08
VANO 7	40.80	43.00	1328.09	292.13	1496.84	1208.51	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00	2601.48	379.70	828.81	4.00	9.97	5900.00	6.08	9.59	0.47	13.01	10.15	15.07	13.01	15.07	9.59
VANO 7	42.00	44.00	1431.26	314.99	1557.59	1293.48	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29	2601.48	379.70	913.78	4.00	10.99	5900.00	6.32	10.12	0.51	14.15	10.15	15.07	14.15	15.07	10.12
VANO 7	43.20	45.00	1535.21	338.08	1620.29	1378.33	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	998.63	4.00	12.01	5900.00	6.58	10.66	0.55	15.30	10.15	15.07	15.30	15.30	10.66
VANO 7	43.20	46.00	1535.21	338.08	1620.29	1378.33	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	998.63	4.00	12.01	5900.00	6.58	10.66	0.55	15.30	10.15	15.07	15.30	15.30	10.66
VANO 7	44.40	47.00	1639.87	361.39	1684.93	1463.07	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63	2601.48	379.70	1083.37	4.00	12.01	5900.00	6.84	11.22	0.60	15.43	10.15	15.07	15.43	15.43	11.22
VANO 7	45.60	48.00	1745.20	384.93	1752.06	1547.68	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68	2601.48	379.70	1167.98	4.00	12.01	5900.00	7.11	11.80	0.65	15.57	10.15	15.07	15.57	15.57	11.80
VANO 7	46.80	49.00	1851.13	408.69	1821.18	1632.16	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73	2601.48	379.70	1252.46	4.00	12.01	5900.00	7.39	12.40	0.69	15.71	10.15	15.07	15.71	15.71	12.40
VANO 7	[illegible]	50.00	2366.13	432.64	1892.30	1718.80	2601.48	379.70	1966.43	4.00	13.90	5900.00	1.76	0.38	0.69	14.78	2601.48	379.70	1338.80	4.00	12.01	5900.00	7.68	13.02	0.74	15.85	10.15	15.07	15.85	15.85	13.02
VANO 8	0.00	1.00	2316.53	710.45	2236.87	1719.11	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08	2601.48	379.70	1339.41	4.00	12.04	5900.00	9.08	16.00	0.80	15.58	10.15	15.07	16.58	16.58	16.00
VANO 8	1.20	2.00	1801.53	683.29	2161.66	1634.77	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03	2601.48	379.70	1255.07	4.00	12.04	5900.00	8.77	15.35	0.75	16.43	10.15	15.07	16.43	16.43	15.35
VANO 8	2.40	3.00	1698.44	656.36	2088.38	1550.30	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97	2601.48	379.70	1170.60	4.00	12.04	5900.00	8.48	14.71	0.70	16.28	10.15	15.07	16.28	16.28	14.71
VANO 8	3.60	4.00	1605.64	629.66	2017.02	1465.71	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92	2601.48	379.70	1086.01	4.00	12.04	5900.00	8.19	14.09	0.65	16.14	10.15	15.07	16.14	16.14	14.09
VANO 8	4.80	5.00	1513.50	603.18	1947.60	1380.98	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	1001.28	4.00	12.04	5900.00	7.91	13.49	0.60	16.00	10.15	15.07	16.00	16.00	13.49
VANO 8	4.80	6.00	1513.50	603.18	1947.60	1380.98	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	1001.28	4.00	12.04	5900.00	7.91	13.49	0.60	16.00	10.15	15.07	16.00	16.00	13.49
VANO 8	6.00	7.00	1422.07	576.92	1880.11	1295.14	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71	2601.48	379.70	916.44	4.00	11.02	5900.00	7.63	12.91	0.56	14.84	10.15	15.07	14.84	15.07	12.91
VANO 8	7.20	8.00	1331.41	550.89	1814.54	1211.17	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57	2601.48	379.70	831.47	4.00	10.00	5900.00	7.37	12.34	0.51	13.68	10.15	15.07	13.68	15.07	12.34
VANO 8	8.40	9.00	1232.18	525.09	1750.90	1125.10	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32	2601.48	379.70	746.40	4.00	8.98	5900.00	7.11	11.79	0.47	12.53	10.15	15.07	12.53	15.07	11.79
VANO 8	9.60	10.00	1130.68	499.51	1689.20	1040.92	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	661.22	4.00	7.95	5900.00	6.86	11.26	0.43	11.38	10.15	15.07	11.38	15.07	11.26
VANO 8	9.60	11.00	1130.68	499.51	1689.20	1040.92	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	661.22	4.00	7.95	5900.00	6.86	11.26	0.43	11.38	10.15	15.07	11.38	15.07	11.26
VANO 8	10.80	12.00	1030.10	474.16	1629.42	955.63	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79	2601.48	379.70	575.93	4.00	6.93	5900.00	6.61	10.74	0.39	10.24	10.15	15.07	10.24	15.07	10.74
VANO 8	12.00	13.00	930.46	449.04	1571.57	870.26	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54	2601.48	379.70	490.56	4.00	5.90	5900.00	6.38	10.24	0.35	9.09	10.15	15.07	10.15	15.07	10.24
VANO 8	13.20	14.00	831.83	424.14	1515.65	784.79	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30	2601.48	379.70	405.09	4.00	4.87	5900.00	6.15	9.76	0.32	7.95	10.15	15.07	10.15	15.07	9.76
VANO 8	14.40	15.00	734.22	399.46	1461.66	699.25	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08	2601.48	379.70	319.55	4.00	3.84	5900.00	5.93	9.29	0.28	6.81	10.15	15.07	10.15	15.07	9.29
VANO 8	14.40	16.00	717.28	399.46	1461.66	682.30	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87	2601.48	379.70	302.60	4.00	3.64	5900.00	5.93	9.29	0.28	6.61	10.15	15.07	10.15	15.07	9.29
VANO 8	15.60	17.00	620.74	375.01	1409.60	596.69	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66	2601.48	379.70	216.99	4.00	2.61	5900.00	5.72	8.84	0.25	5.47	10.15	15.07	10.15	15.07	8.84
VANO 8	16.80	18.00	525.30	350.79	1359.47	511.01	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46	2601.48	379.70	131.31	4.00	1.58	5900.00	5.52	8.40	0.22	4.34	10.15	15.07	10.15	15.07	8.40
VANO 8	18.00	19.00	430.99	326.79	1311.27	425.27	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28	2601.48	379.70	45.57	4.00	0.55	5900.00	5.32	7.99	0.19	3.21	10.15	15.07	10.15	15.07	7.99
VANO 8	19.20	20.00	489.77	177.07	1265.10	339.48	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.14	7.59	0.16	2.57	10.15	15.07	10.15	15.07	7.59
VANO 8	19.20	21.00	489.77	177.07	1265.10	339.48	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.14	7.59	0.16	2.57	10.15	15.07	10.15	15.07	7.59
VANO 8	20.40	22.00	567.43	166.70	1221.06	253.66	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60	2601.48	379.70	0.00	4.00	0.00	5900.00	4.96	7.21	0.14	2.48	10.15	15.07	10.15	15.07	7.21
VANO 8	21.60	23.00	646.40	156.32	1179.16	167.81	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53	2601.48	379.70	0.00	4.00	0.00	5900.00	4.79	6.84	0.12	2.39	10.15	15.07	10.15	15.07	6.84
VANO 8	22.80	24.00	726.69	145.95	1139.40	81.94	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47	2601.48	379.70	0.00	4.00	0.00	5900.00	4.63	6.50	0.10	2.31	10.15	15.07	10.15	15.07	6.50
VANO 8	24.00	25.00	399.83	135.57	1103.91	5.42	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.48	6.19	0.09	2.24	10.15	15.07	10.15	15.07	6.19
VANO 8	24.00	26.00	399.83	135.57	1103.91	5.42	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.48	6.19	0.09	2.24	10.15	15.07	10.15	15.07	6.19
VANO 8	25.20	27.00	711.62	187.04	1073.32	91.80	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.38	5.93	0.09	2.18	10.15	15.07	10.15	15.07	5.93
VANO 8	26.40	28.00	631.31	164.70	1056.73	174.57	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36	2601.48	379.70	0.00	4.00	0.00	5900.00	4.29	5.79	0.10	2.14	10.15	15.07	10.15	15.07	5.79
VANO 8	27.60	29.00	552.32	142.63	1057.99	261.63	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.29	5.80	0.12	2.15	10.15	15.07	10.15	15.07	5.80
VANO 8	28.80	30.00	474.65	120.83	1090.98	343.46	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.43	6.08	0.14	2.21	10.15	15.07	10.15	15.07	6.08
VANO 8	28.80	31.00	474.65	120.83	1090.98	343.46	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.43	6.08	0.14	2.21	10.15	15.07	10.15	15.07	6.08
VANO 8	30.00	32.00	441.60	111.38	1126.11	434.24	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97	2601.48	379.70	54.54	4.00	0.66	5900.00	4.57	6.39	0.17	2.94	10.15	15.07	10.15	15.07	6.39
VANO 8	31.20	33.00	535.90	124.89	1165.23	519.98	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13	2601.48	379.70	140.28	4.00	1.69	5900.00	4.73	6.72	0.19	4.05	10.15	15.07	10.15	15.07	6.72
VANO 8	32.40	34.00	631.32	143.44	1210.67	605.66	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32	2601.48	379.70	225.96	4.00	2.72	5900.00	4.91	7.12	0.22	5.18	10.15	15.07	10.15	15.07	7.12
VANO 8	33.60	35.00	727.84	163.77	1258.04	691.28	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	311.58	4.00	3.75	5900.00	5.11	7.53	0.25	6.30	10.15	15.07	10.15	15.07	7.53
VANO 8	33.60	36.00	727.84	163.77	1258.04	691.28	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	311.58	4.00	3.75	5900.00	5.11	7.53	0.25	6.30	10.15	15.07	10.15	15.07	7.53
VANO 8	34.80	37.00	825.43	184.39	1307.89	776.83	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74	2601.48	379.70	397.13	4.00	4.78	5900.00	5.31	7.96	0.29	7.43	10.15	15.07	10.15	15.07	7.96
VANO 8	36.00	38.00	924.05	205.23	1359.71	862.30	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96	2601.48	379.70	482.60	4.00	5.81	5900.00	5.52	8.41	0.32	8.56	10.15	15.07	10.15	15.07	8.41
VANO 8	37.20	39.00	1023.67	226.30	1413.48	947.68	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21	2601.48	379.70	567.98	4.00	6.83	5900.00	5.74	8.87	0.36	9.70	10.15	15.07	10.15	15.07	8.87
VANO 8	38.40	40.00	1124.25	247.59	1469.23	1032.97	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	653.27	4.00	7.86	5900.00	5.96	9.35	0.40	10.84	10.15	15.07	10.84	15.07	9.35
VANO 8	38.40	41.00	1124.25	247.59	1469.23	1032.97	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	653.27	4.00	7.86	5900.00	5.96	9.35	0.40	10.84	10.15	15.07	10.84	15.07	9.35
VANO 8	39.60	42.00	1225.73	269.50	1526.91	1118.15	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72	2601.48	379.70	738.45	4.00	8.88	5900.00	6.20	9.85	0.44	11.98	10.15	15.07	11.98	15.07	9.85
VANO 8	40.80	43.00	1328.09	292.13	1586.86	1203.23	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00	2601.48	379.70	823.53	4.00	9.91	5900.00	6.44	10.37	0.48	13.13	10.15	15.07	13.13	15.07	10.37
VANO 8	42.00	44.00	1431.26	314.99	1651.44	1288.20	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29	2601.48	379.70	908.50	4.00	10.93	5900.00	6.70	10.93	0.52	14.28	10.15	15.07	14.28	15.07	10.93
VANO 8	43.20	45.00	1535.21	338.08	1717.95	1373.05	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	993.35	4.00	11.95	5900.00	6.97	11.51	0.57	15.44	10.15	15.07	15.44	15.44	11.51
VANO 8	43.20	46.00	1535.21	338.08	1717.95	1373.05	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	993.35	4.00	11.95	5900.00	6.97	11.51	0.57	15.44	10.15	15.07	15.44	15.44	11.51
VANO 8	44.40	47.00	1639.87	361.39	1786.38	1457.77	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63	2601.48	379.70	1078.07	4.00	11.95	5900.00	7.25	12.10	0.61	15.57	10.15	15.07	15.57	15.57	12.10
VANO 8	45.60	48.00	1745.20	384.93	1856.75	1542.38	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68	2601.48	379.70	1162.68	4.00	11.95	5900.00	7.54	12.71	0.66	15.72	10.15	15.07	15.72	15.72	12.71
VANO 8	46.80	49.00	1851.13	408.69	[illegible]	1626.85	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73	2601.48	379.70	1247.15	4.00	11.95	5900.00	7.83	13.33	0.71	15.86	10.15	15.07	15.86	15.86	13.33

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20 006	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS DE SECCIÓN

CARACTERISTICAS CORTANTE

Can eficaz =	3.875	cotg tetha =	1.46
Brazo mec =	3.4875	Vu1	2601.48167
fyd cercos =	40816.3	Vcu	379.7
fck (t/m2) =	4081.6	N º ramas =	4

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Prel) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	Dos caras As (Tu2)	Arm long As (Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)
VANO 9	0.00	1.00	2316.53	710.45	2078.91	1719.14	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08
VANO 9	1.20	2.00	1801.53	683.29	2004.31	1634.80	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03
VANO 9	2.40	3.00	1698.44	656.36	1931.63	1550.33	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97
VANO 9	3.60	4.00	1605.64	629.66	1860.88	1465.72	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92
VANO 9	4.80	5.00	1513.50	603.18	1792.05	1381.00	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86
VANO 9	4.80	6.00	1513.50	603.18	1792.05	1381.00	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86
VANO 9	6.00	7.00	1422.07	576.92	1725.15	1296.15	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71
VANO 9	7.20	8.00	1331.41	550.89	1660.18	1211.18	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57
VANO 9	8.40	9.00	1232.18	525.09	1597.13	1126.11	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32
VANO 9	9.60	10.00	1130.68	499.51	1536.01	1040.92	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05
VANO 9	9.60	11.00	1130.68	499.51	1536.01	1040.92	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05
VANO 9	10.80	12.00	1030.10	474.16	1476.82	955.64	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79
VANO 9	12.00	13.00	930.46	449.04	1419.56	870.26	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54
VANO 9	13.20	14.00	831.83	424.14	1364.22	784.80	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30
VANO 9	14.40	15.00	734.22	399.46	1310.80	699.25	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08
VANO 9	14.40	16.00	717.28	399.46	1310.80	682.31	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87
VANO 9	15.60	17.00	620.74	375.01	1259.32	596.69	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66
VANO 9	16.80	18.00	525.30	350.79	1209.93	511.01	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46
VANO 9	18.00	19.00	430.99	326.79	1165.35	425.27	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28
VANO 9	19.20	20.00	489.77	177.07	1122.79	339.48	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68
VANO 9	19.20	21.00	489.77	177.07	1122.79	339.48	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68
VANO 9	20.40	22.00	567.43	166.70	1083.04	253.66	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60
VANO 9	21.60	23.00	646.40	156.32	1049.31	167.81	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53
VANO 9	22.80	24.00	726.69	145.95	1024.04	82.85	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47
VANO 9	24.00	25.00	399.83	135.57	1050.65	4.40	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52
VANO 9	24.00	26.00	399.83	135.57	1050.65	4.40	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52
VANO 9	25.20	27.00	711.62	187.04	1087.87	90.08	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37
VANO 9	26.40	28.00	631.31	164.70	1127.22	175.95	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36
VANO 9	27.60	29.00	552.32	142.63	1168.70	261.80	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37
VANO 9	28.80	30.00	474.65	120.83	1212.32	347.62	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39
VANO 9	28.80	31.00	474.65	120.83	1212.32	347.62	2501.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39
VANO 9	30.00	32.00	441.60	111.38	1258.07	433.40	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97
VANO 9	31.20	33.00	535.90	124.89	1305.85	519.14	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13
VANO 9	32.40	34.00	631.32	143.44	1355.56	604.82	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32
VANO 9	33.60	35.00	727.84	163.77	1407.19	690.44	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52
VANO 9	33.60	36.00	727.84	163.77	1407.19	690.44	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52
VANO 9	34.80	37.00	825.43	184.39	1460.76	775.98	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74
VANO 9	36.00	38.00	924.05	205.23	1516.25	861.45	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96
VANO 9	37.20	39.00	1023.67	226.30	1573.66	946.82	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21
VANO 9	38.40	40.00	1124.25	247.59	1633.01	1032.11	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46
VANO 9	38.40	41.00	1124.25	247.59	1633.01	1032.11	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46
VANO 9	39.60	42.00	1225.73	269.50	1694.28	1117.29	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72
VANO 9	40.80	43.00	1328.09	292.13	1757.48	1202.36	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00
VANO 9	42.00	44.00	1431.26	314.99	1822.60	1287.33	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29
VANO 9	43.20	45.00	1535.21	338.08	1889.66	1372.17	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59
VANO 9	43.20	46.00	1535.21	338.08	1889.66	1372.17	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59
VANO 9	44.40	47.00	1639.87	361.39	1958.64	1456.90	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63
VANO 9	45.60	48.00	1745.20	384.93	2029.54	1541.49	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68
VANO 9	46.80	49.00	1851.13	408.69	2102.38	1625.96	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73
VANO 9	[illegible]	50.00	[illegible]	[illegible]	2177.14	1710.30	2601.48	379.70	[illegible]	4.00	13.90	5900.00	1.76	0.39	0.69	14.78
VANO 10	0.00	1.00	2316.53	710.45	2116.28	1713.85	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08
VANO 10	1.20	2.00	1801.53	683.29	2041.81	1629.51	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03
VANO 10	2.40	3.00	1698.44	656.36	1969.25	1545.03	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97
VANO 10	3.60	4.00	1605.64	629.66	1898.61	1460.43	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92
VANO 10	4.80	5.00	1513.50	603.18	1829.89	1375.69	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86
VANO 10	4.80	6.00	1513.50	603.18	1829.89	1375.69	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86
VANO 10	6.00	7.00	1422.07	576.92	1763.09	1290.84	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71
VANO 10	7.20	8.00	1331.41	550.89	1698.20	1205.87	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57
VANO 10	8.40	9.00	1232.18	525.09	1635.24	1120.78	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32
VANO 10	9.60	10.00	1130.68	499.51	1574.19	1035.59	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05
VANO 10	9.60	11.00	1130.68	499.51	1574.19	1035.59	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05
VANO 10	10.80	12.00	1030.10	474.16	1515.06	950.30	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79
VANO 10	12.00	13.00	930.46	449.04	1457.85	864.92	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54
VANO 10	13.20	14.00	831.83	424.14	1402.56	779.44	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30
VANO 10	14.40	15.00	734.22	399.46	1349.19	693.89	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08
VANO 10	14.40	16.00	717.28	399.46	1349.19	676.95	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87
VANO 10	15.60	17.00	620.74	375.01	1297.73	591.32	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66
VANO 10	16.80	18.00	525.30	350.79	1248.46	505.63	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46
VANO 10	18.00	19.00	430.99	326.79	1203.80	419.89	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28
VANO 10	19.20	20.00	489.77	177.07	1161.17	334.10	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68
VANO 10	19.20	21.00	489.77	177.07	1161.17	334.10	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68
VANO 10	20.40	22.00	567.43	166.70	1120.92	248.27	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60
VANO 10	21.60	23.00	646.40	156.32	1085.17	162.41	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53
VANO 10	22.80	24.00	726.69	145.95	1056.79	77.40	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47
VANO 10	24.00	25.00	399.83	135.57	1081.32	9.42	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52
VANO 10	24.00	26.00	399.83	135.57	1081.32	9.42	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52
VANO 10	25.20	27.00	711.62	187.04	1118.31	95.30	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37
VANO 10	26.40	28.00	631.31	164.70	1157.44	181.18	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36
VANO 10	27.60	29.00	552.32	142.63	1198.68	267.03	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37
VANO 10	28.80	30.00	474.65	120.83	1242.05	352.86	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39
VANO 10	28.80	31.00	474.65	120.83	1242.05	352.86	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39
VANO 10	30.00	32.00	441.60	111.38	1287.55	438.65	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97
VANO 10	31.20	33.00	535.90	124.89	1335.06	524.39	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13
VANO 10	32.40	34.00	631.32	143.44	1384.50	610.08	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32
VANO 10	33.60	35.00	727.84	163.77	1435.85	695.70	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52
VANO 10	33.60	36.00	727.84	163.77	1435.85	695.70	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52
VANO 10	34.80	37.00	825.43	184.39	1489.12	781.25	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74
VANO 10	36.00	38.00	924.05	205.23	1544.31	866.72	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96
VANO 10	37.20	39.00	1023.67	226.30	1601.42	952.11	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21
VANO 10	38.40	40.00	1124.25	247.59	1660.45	1037.39	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46
VANO 10	38.40	41.00	1124.25	247.59	1660.45	1037.39	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46
VANO 10	39.60	42.00	1225.73	269.50	1721.40	1122.58	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72
VANO 10	40.80	43.00	1328.09	292.13	1784.26	1207.66	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00
VANO 10	42.00	44.00	1431.26	314.99	1849.04	1292.63	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29
VANO 10	43.20	45.00	1535.21	338.08	1915.75	1377.48	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59
VANO 10	43.20	46.00	1535.21	338.08	1915.75	1377.48	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59
VANO 10	44.40	47.00	1639.87	361.39	1984.37	1462.20	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63
VANO 10	45.60	48.00	1745.20	384.93	2054.91	1546.80	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68
VANO 10	46.80	49.00	1851.13	408.69	2127.37	1631.28	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC / **ARMADO DEFINITIVO**

	Nudo	Vu1	Vcu	Vsu	Ramas	Una rama As Cerc	Tu1	Dos caras As (Tu2)	Arm long As(Tu3)/m	Comproh (V+T)<1	Una rama As(Td+Vd)	FLEXIÓN TRANS As ext	As int	As ext	As int	As long/m
VANO 9	1.00	2601.48	379.70	1339.44	4.00	12.04	5900.00	8.44	14.63	0.77	16.26	10.15	15.07	16.26	16.26	14.63
VANO 9	2.00	2601.48	379.70	1255.10	4.00	12.04	5900.00	8.14	13.98	0.72	16.11	10.15	15.07	16.11	16.11	13.98
VANO 9	3.00	2601.48	379.70	1170.63	4.00	12.04	5900.00	7.84	13.36	0.67	15.97	10.15	15.07	15.97	15.97	13.36
VANO 9	4.00	2601.48	379.70	1086.02	4.00	12.04	5900.00	7.55	12.74	0.63	15.82	10.15	15.07	15.82	15.82	12.74
VANO 9	5.00	2601.48	379.70	1001.30	4.00	12.04	5900.00	7.27	12.15	0.58	15.68	10.15	15.07	15.68	15.68	12.15
VANO 9	6.00	2601.48	379.70	1001.30	4.00	12.04	5900.00	7.27	12.15	0.58	15.68	10.15	15.07	15.68	15.68	12.15
VANO 9	7.00	2601.48	379.70	916.45	4.00	11.02	5900.00	7.00	11.57	0.53	14.53	10.15	15.07	14.53	15.07	11.57
VANO 9	8.00	2601.48	379.70	831.48	4.00	10.00	5900.00	6.74	11.01	0.49	13.37	10.15	15.07	13.37	15.07	11.01
VANO 9	9.00	2601.48	379.70	746.41	4.00	8.98	5900.00	6.48	10.46	0.45	12.22	10.15	15.07	12.22	15.07	10.46
VANO 9	10.00	2601.48	379.70	661.22	4.00	7.95	5900.00	6.24	9.93	0.41	11.07	10.15	15.07	11.07	15.07	9.93
VANO 9	11.00	2601.48	379.70	661.22	4.00	7.95	5900.00	6.24	9.93	0.41	11.07	10.15	15.07	11.07	15.07	9.93
VANO 9	12.00	2601.48	379.70	575.94	4.00	6.93	5900.00	5.99	9.42	0.37	9.93	10.15	15.07	10.15	15.07	9.42
VANO 9	13.00	2601.48	379.70	490.56	4.00	5.90	5900.00	5.76	8.92	0.33	8.78	10.15	15.07	10.15	15.07	8.92
VANO 9	14.00	2601.48	379.70	405.10	4.00	4.87	5900.00	5.54	8.45	0.30	7.64	10.15	15.07	10.15	15.07	8.45
VANO 9	15.00	2601.48	379.70	319.55	4.00	3.84	5900.00	5.32	7.98	0.26	6.50	10.15	15.07	10.15	15.07	7.98
VANO 9	16.00	2601.48	379.70	302.61	4.00	3.64	5900.00	5.32	7.98	0.26	6.30	10.15	15.07	10.15	15.07	7.98
VANO 9	17.00	2601.48	379.70	216.99	4.00	2.61	5900.00	5.11	7.54	0.23	5.17	10.15	15.07	10.15	15.07	7.54
VANO 9	18.00	2601.48	379.70	131.31	4.00	1.58	5900.00	4.91	7.11	0.20	4.04	10.15	15.07	10.15	15.07	7.11
VANO 9	19.00	2601.48	379.70	45.57	4.00	0.55	5900.00	4.73	6.73	0.17	2.91	10.15	15.07	10.15	15.07	6.73
VANO 9	20.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.56	6.36	0.14	2.28	10.15	15.07	10.15	15.07	6.36
VANO 9	21.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.56	6.36	0.14	2.28	10.15	15.07	10.15	15.07	6.36
VANO 9	22.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.40	6.01	0.12	2.20	10.15	15.07	10.15	15.07	6.01
VANO 9	23.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.26	5.72	0.10	2.13	10.15	15.07	10.15	15.07	5.72
VANO 9	24.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.16	5.50	0.09	2.08	10.15	15.07	10.15	15.07	5.50
VANO 9	25.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.26	5.73	0.08	2.13	10.15	15.07	10.15	15.07	5.73
VANO 9	26.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.26	5.73	0.08	2.13	10.15	15.07	10.15	15.07	5.73
VANO 9	27.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.42	6.05	0.09	2.21	10.15	15.07	10.15	15.07	6.05
VANO 9	28.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.58	6.40	0.11	2.29	10.15	15.07	10.15	15.07	6.40
VANO 9	29.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.74	6.75	0.13	2.37	10.15	15.07	10.15	15.07	6.75
VANO 9	30.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.92	7.13	0.16	2.46	10.15	15.07	10.15	15.07	7.13
VANO 9	31.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.92	7.13	0.16	2.46	10.15	15.07	10.15	15.07	7.13
VANO 9	32.00	2601.48	379.70	53.70	4.00	0.65	5900.00	5.11	7.53	0.18	3.20	10.15	15.07	10.15	15.07	7.53
VANO 9	33.00	2601.48	379.70	139.44	4.00	1.68	5900.00	5.30	7.94	0.21	4.33	10.15	15.07	10.15	15.07	7.94
VANO 9	34.00	2601.48	379.70	225.12	4.00	2.71	5900.00	5.50	8.37	0.24	5.46	10.15	15.07	10.15	15.07	8.37
VANO 9	35.00	2601.48	379.70	310.74	4.00	3.74	5900.00	5.71	8.82	0.27	6.59	10.15	15.07	10.15	15.07	8.82
VANO 9	36.00	2601.48	379.70	310.74	4.00	3.74	5900.00	5.71	8.82	0.27	6.59	10.15	15.07	10.15	15.07	8.82
VANO 9	37.00	2601.48	379.70	396.28	4.00	4.77	5900.00	5.93	9.28	0.31	7.73	10.15	15.07	10.15	15.07	9.28
VANO 9	38.00	2601.48	379.70	481.75	4.00	5.80	5900.00	6.15	9.76	0.34	8.87	10.15	15.07	10.15	15.07	9.76
VANO 9	39.00	2601.48	379.70	567.12	4.00	6.82	5900.00	6.39	10.26	0.38	10.02	10.15	15.07	10.15	15.07	10.26
VANO 9	40.00	2601.48	379.70	652.41	4.00	7.85	5900.00	6.63	10.77	0.42	11.16	10.15	15.07	11.16	15.07	10.77
VANO 9	41.00	2601.48	379.70	652.41	4.00	7.85	5900.00	6.63	10.77	0.42	11.16	10.15	15.07	11.16	15.07	10.77
VANO 9	42.00	2601.48	379.70	737.59	4.00	8.87	5900.00	6.88	11.30	0.46	12.31	10.15	15.07	12.31	15.07	11.30
VANO 9	43.00	2601.48	379.70	822.66	4.00	9.90	5900.00	7.13	11.85	0.50	13.46	10.15	15.07	13.46	15.07	11.85
VANO 9	44.00	2601.48	379.70	907.63	4.00	10.92	5900.00	7.40	12.41	0.55	14.62	10.15	15.07	14.62	15.07	12.41
VANO 9	45.00	2601.48	379.70	992.47	4.00	11.94	5900.00	7.67	12.99	0.59	15.77	10.15	15.07	15.77	15.77	12.99
VANO 9	46.00	2601.48	379.70	992.47	4.00	11.94	5900.00	7.67	12.99	0.59	15.77	10.15	15.07	15.77	15.77	12.99
VANO 9	47.00	2601.48	379.70	1077.20	4.00	11.94	5900.00	7.95	13.59	0.64	15.91	10.15	15.07	15.91	15.91	13.59
VANO 9	48.00	2601.48	379.70	1161.79	4.00	11.94	5900.00	8.24	14.20	0.68	16.06	10.15	15.07	16.06	16.06	14.20
VANO 9	49.00	2601.48	379.70	1246.26	4.00	11.94	5900.00	8.53	14.83	0.73	16.21	10.15	15.07	16.21	16.21	14.83
VANO 9	50.00	2601.48	379.70	1330.60	4.00	11.94	5900.00	8.84	15.48	0.78	16.36	10.15	15.07	16.36	16.36	15.48
VANO 10	1.00	2601.48	379.70	1334.15	4.00	11.98	5900.00	8.59	14.95	0.77	16.28	10.15	15.07	16.28	16.28	14.95
VANO 10	2.00	2601.48	379.70	1249.81	4.00	11.98	5900.00	8.29	14.31	0.72	16.13	10.15	15.07	16.13	16.13	14.31
VANO 10	3.00	2601.48	379.70	1165.33	4.00	11.98	5900.00	7.99	13.68	0.68	15.98	10.15	15.07	15.98	15.98	13.68
VANO 10	4.00	2601.48	379.70	1080.73	4.00	11.98	5900.00	7.71	13.07	0.63	15.83	10.15	15.07	15.83	15.83	13.07
VANO 10	5.00	2601.48	379.70	995.99	4.00	11.98	5900.00	7.43	12.48	0.58	15.70	10.15	15.07	15.70	15.70	12.48
VANO 10	6.00	2601.48	379.70	995.99	4.00	11.98	5900.00	7.43	12.48	0.58	15.70	10.15	15.07	15.70	15.70	12.48
VANO 10	7.00	2601.48	379.70	911.14	4.00	10.96	5900.00	7.16	11.90	0.54	14.54	10.15	15.07	14.54	15.07	11.90
VANO 10	8.00	2601.48	379.70	826.17	4.00	9.94	5900.00	6.89	11.34	0.49	13.38	10.15	15.07	13.38	15.07	11.34
VANO 10	9.00	2601.48	379.70	741.08	4.00	8.91	5900.00	6.64	10.79	0.45	12.23	10.15	15.07	12.23	15.07	10.79
VANO 10	10.00	2601.48	379.70	655.89	4.00	7.89	5900.00	6.39	10.26	0.41	11.08	10.15	15.07	11.08	15.07	10.26
VANO 10	11.00	2601.48	379.70	655.89	4.00	7.89	5900.00	6.39	10.26	0.41	11.08	10.15	15.07	11.08	15.07	10.26
VANO 10	12.00	2601.48	379.70	570.60	4.00	6.86	5900.00	6.15	9.75	0.37	9.94	10.15	15.07	10.15	15.07	9.75
VANO 10	13.00	2601.48	379.70	485.22	4.00	5.84	5900.00	5.92	9.26	0.34	8.80	10.15	15.07	10.15	15.07	9.26
VANO 10	14.00	2601.48	379.70	399.74	4.00	4.81	5900.00	5.69	8.78	0.30	7.66	10.15	15.07	10.15	15.07	8.78
VANO 10	15.00	2601.48	379.70	314.19	4.00	3.78	5900.00	5.48	8.32	0.27	6.52	10.15	15.07	10.15	15.07	8.32
VANO 10	16.00	2601.48	379.70	297.25	4.00	3.58	5900.00	5.48	8.32	0.26	6.31	10.15	15.07	10.15	15.07	8.32
VANO 10	17.00	2601.48	379.70	211.62	4.00	2.55	5900.00	5.27	7.87	0.23	5.18	10.15	15.07	10.15	15.07	7.87
VANO 10	18.00	2601.48	379.70	125.93	4.00	1.51	5900.00	5.07	7.44	0.20	4.05	10.15	15.07	10.15	15.07	7.44
VANO 10	19.00	2601.48	379.70	40.19	4.00	0.48	5900.00	4.89	7.06	0.17	2.93	10.15	15.07	10.15	15.07	7.06
VANO 10	20.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.71	6.69	0.15	2.36	10.15	15.07	10.15	15.07	6.69
VANO 10	21.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.71	6.69	0.15	2.36	10.15	15.07	10.15	15.07	6.69
VANO 10	22.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.55	6.34	0.12	2.28	10.15	15.07	10.15	15.07	6.34
VANO 10	23.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.40	6.03	0.10	2.20	10.15	15.07	10.15	15.07	6.03
VANO 10	24.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.29	5.79	0.09	2.14	10.15	15.07	10.15	15.07	5.79
VANO 10	25.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.39	6.00	0.09	2.19	10.15	15.07	10.15	15.07	6.00
VANO 10	26.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.39	6.00	0.09	2.19	10.15	15.07	10.15	15.07	6.00
VANO 10	27.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.54	6.32	0.10	2.27	10.15	15.07	10.15	15.07	6.32
VANO 10	28.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.70	6.66	0.12	2.35	10.15	15.07	10.15	15.07	6.66
VANO 10	29.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.87	7.01	0.14	2.43	10.15	15.07	10.15	15.07	7.01
VANO 10	30.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.04	7.39	0.16	2.52	10.15	15.07	10.15	15.07	7.39
VANO 10	31.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.04	7.39	0.16	2.52	10.15	15.07	10.15	15.07	7.39
VANO 10	32.00	2601.48	379.70	58.95	4.00	0.71	5900.00	5.23	7.78	0.19	3.32	10.15	15.07	10.15	15.07	7.78
VANO 10	33.00	2601.48	379.70	144.69	4.00	1.74	5900.00	5.42	8.19	0.22	4.45	10.15	15.07	10.15	15.07	8.19
VANO 10	34.00	2601.48	379.70	230.38	4.00	2.77	5900.00	5.62	8.62	0.25	5.58	10.15	15.07	10.15	15.07	8.62
VANO 10	35.00	2601.48	379.70	316.00	4.00	3.80	5900.00	5.83	9.07	0.28	6.72	10.15	15.07	10.15	15.07	9.07
VANO 10	36.00	2601.48	379.70	316.00	4.00	3.80	5900.00	5.83	9.07	0.28	6.72	10.15	15.07	10.15	15.07	9.07
VANO 10	37.00	2601.48	379.70	401.55	4.00	4.83	5900.00	6.04	9.53	0.31	7.85	10.15	15.07	10.15	15.07	9.53
VANO 10	38.00	2601.48	379.70	487.02	4.00	5.86	5900.00	6.27	10.00	0.35	8.99	10.15	15.07	10.15	15.07	10.00
VANO 10	39.00	2601.48	379.70	572.41	4.00	6.89	5900.00	6.50	10.50	0.39	10.14	10.15	15.07	10.15	15.07	10.50
VANO 10	40.00	2601.48	379.70	657.69	4.00	7.91	5900.00	6.74	11.01	0.43	11.28	10.15	15.07	11.28	15.07	11.01
VANO 10	41.00	2601.48	379.70	657.69	4.00	7.91	5900.00	6.74	11.01	0.43	11.28	10.15	15.07	11.28	15.07	11.01
VANO 10	42.00	2601.48	379.70	742.88	4.00	8.94	5900.00	6.99	11.54	0.47	12.43	10.15	15.07	12.43	15.07	11.54
VANO 10	43.00	2601.48	379.70	827.96	4.00	9.96	5900.00	7.24	12.08	0.51	13.58	10.15	15.07	13.58	15.07	12.08
VANO 10	44.00	2601.48	379.70	912.93	4.00	10.98	5900.00	7.51	12.64	0.55	14.73	10.15	15.07	14.73	15.07	12.64
VANO 10	45.00	2601.48	379.70	997.78	4.00	12.00	5900.00	7.78	13.22	0.60	15.89	10.15	15.07	15.89	15.89	13.22
VANO 10	46.00	2601.48	379.70	997.78	4.00	12.00	5900.00	7.78	13.22	0.60	15.89	10.15	15.07	15.89	15.89	13.22
VANO 10	47.00	2601.48	379.70	1082.50	4.00	12.00	5900.00	8.05	13.81	0.64	16.03	10.15	15.07	16.03	16.03	13.81
VANO 10	48.00	2601.48	379.70	1167.10	4.00	12.00	5900.00	8.34	14.42	0.69	16.17	10.15	15.07	16.17	16.17	14.42
VANO 10	49.00	2601.48	379.70	1251.58	4.00	12.00	5900.00	8.64	15.05	0.74	16.32	10.15	15.07	16.32	16.32	15.05

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.006	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS DE SECCIÓN

CARACTERISTICAS CORTANTE

Can eficaz =	3.875	cotg tetha =	1.46
Brazo mec =	3.4875	Vu1	2601.48167
fyd cercos =	40816.3	Vcu	379.7
fck (t/m2) =	4081.6	N° ramas =	4

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC | **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** | **ARMADO DEFINITIVO**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	Dos caras As (Tu2)	Arm long As (Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	Vu1	Vcu	Vsu	Ramas	Una rama As Cerc	Tu1	Dos caras As (Tu2)	Arm long As(Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	FLEXIÓN TRANS As ext	As int	As ext	As int	As long/m
VANO 11	0.00	1.00	2316.53	710.45	2046.18	1722.87	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08	2601.48	379.70	1343.17	4.00	12.09	5900.00	8.31	14.35	0.77	16.24	10.15	15.07	16.24	16.24	14.35
VANO 11	1.20	2.00	1801.53	683.29	1971.67	1638.53	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03	2601.48	379.70	1258.83	4.00	12.09	5900.00	8.00	13.70	0.72	16.09	10.15	15.07	16.09	16.09	13.70
VANO 11	2.40	3.00	1698.44	656.36	1899.08	1554.05	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97	2601.48	379.70	1174.35	4.00	12.09	5900.00	7.71	13.07	0.67	15.94	10.15	15.07	15.94	15.94	13.07
VANO 11	3.60	4.00	1605.64	629.66	1828.42	1469.45	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92	2601.48	379.70	1089.75	4.00	12.09	5900.00	7.42	12.46	0.62	15.80	10.15	15.07	15.80	15.80	12.46
VANO 11	4.80	5.00	1513.50	603.18	1759.69	1384.72	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	1005.02	4.00	12.09	5900.00	7.14	11.87	0.58	15.66	10.15	15.07	15.66	15.66	11.87
VANO 11	4.80	6.00	1513.50	603.18	1759.69	1384.72	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	1005.02	4.00	12.09	5900.00	7.14	11.87	0.58	15.66	10.15	15.07	15.66	15.66	11.87
VANO 11	6.00	7.00	1422.07	576.92	1692.88	1299.87	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71	2601.48	379.70	920.17	4.00	11.07	5900.00	6.87	11.29	0.53	14.50	10.15	15.07	14.50	15.07	11.29
VANO 11	7.20	8.00	1331.41	550.89	1627.99	1214.90	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57	2601.48	379.70	835.20	4.00	10.05	5900.00	6.61	10.73	0.49	13.35	10.15	15.07	13.35	15.07	10.73
VANO 11	8.40	9.00	1232.18	525.09	1565.03	1129.81	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32	2601.48	379.70	750.11	4.00	9.02	5900.00	6.35	10.18	0.45	12.20	10.15	15.07	12.20	15.07	10.18
VANO 11	9.60	10.00	1130.68	499.51	1506.42	1044.63	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	664.93	4.00	8.00	5900.00	6.11	9.68	0.41	11.06	10.15	15.07	11.06	15.07	9.68
VANO 11	9.60	11.00	1130.68	499.51	1506.42	1044.63	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	664.93	4.00	8.00	5900.00	6.11	9.68	0.41	11.06	10.15	15.07	11.06	15.07	9.68
VANO 11	10.80	12.00	1030.10	474.16	1450.27	959.34	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79	2601.48	379.70	579.64	4.00	6.97	5900.00	5.89	9.19	0.37	9.92	10.15	15.07	10.15	15.07	9.19
VANO 11	12.00	13.00	930.46	449.04	1396.03	873.95	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54	2601.48	379.70	494.25	4.00	5.95	5900.00	5.67	8.72	0.33	8.78	10.15	15.07	10.15	15.07	8.72
VANO 11	13.20	14.00	831.83	424.14	1343.77	788.48	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30	2601.48	379.70	408.78	4.00	4.92	5900.00	5.45	8.27	0.30	7.64	10.15	15.07	10.15	15.07	8.27
VANO 11	14.40	15.00	734.22	399.46	1293.46	702.93	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08	2601.48	379.70	323.23	4.00	3.89	5900.00	5.25	7.83	0.26	6.51	10.15	15.07	10.15	15.07	7.83
VANO 11	14.40	16.00	717.28	399.46	1293.46	685.99	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87	2601.48	379.70	306.29	4.00	3.68	5900.00	5.25	7.83	0.26	6.31	10.15	15.07	10.15	15.07	7.83
VANO 11	15.60	17.00	620.74	375.01	1245.81	600.36	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66	2601.48	379.70	220.66	4.00	2.65	5900.00	5.06	7.42	0.23	5.18	10.15	15.07	10.15	15.07	7.42
VANO 11	16.80	18.00	525.30	350.79	1200.24	514.67	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46	2601.48	379.70	134.97	4.00	1.62	5900.00	4.87	7.03	0.20	4.06	10.15	15.07	10.15	15.07	7.03
VANO 11	18.00	19.00	430.99	326.79	1159.67	428.93	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28	2601.48	379.70	49.23	4.00	0.59	5900.00	4.71	6.68	0.17	2.95	10.15	15.07	10.15	15.07	6.68
VANO 11	19.20	20.00	489.77	177.07	1124.41	343.13	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	4.56	6.37	0.14	2.28	10.15	15.07	10.15	15.07	6.37
VANO 11	19.20	21.00	489.77	177.07	1124.41	343.13	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	4.56	6.37	0.14	2.28	10.15	15.07	10.15	15.07	6.37
VANO 11	20.40	22.00	567.43	166.70	1091.28	257.31	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60	2601.48	379.70	0.00	4.00	0.00	5900.00	4.43	6.08	0.12	2.21	10.15	15.07	10.15	15.07	6.08
VANO 11	21.60	23.00	646.40	156.32	1072.39	173.29	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53	2601.48	379.70	0.00	4.00	0.00	5900.00	4.35	5.92	0.11	2.18	10.15	15.07	10.15	15.07	5.92
VANO 11	22.80	24.00	726.69	145.95	1088.53	86.52	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47	2601.48	379.70	0.00	4.00	0.00	5900.00	4.42	6.06	0.09	2.21	10.15	15.07	10.15	15.07	6.06
VANO 11	24.00	25.00	399.83	135.57	1119.74	1.70	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.55	6.33	0.09	2.27	10.15	15.07	10.15	15.07	6.33
VANO 11	24.00	26.00	399.83	135.57	1119.74	1.70	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.55	6.33	0.09	2.27	10.15	15.07	10.15	15.07	6.33
VANO 11	25.20	27.00	711.62	187.04	1156.83	36.22	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.70	6.65	0.10	2.35	10.15	15.07	10.15	15.07	6.65
VANO 11	26.40	28.00	631.31	164.70	1196.05	172.09	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36	2601.48	379.70	0.00	4.00	0.00	5900.00	4.86	6.99	0.12	2.43	10.15	15.07	10.15	15.07	6.99
VANO 11	27.60	29.00	552.32	142.63	1237.41	257.95	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37	2601.48	379.70	0.00	4.00	0.00	5900.00	5.02	7.35	0.14	2.51	10.15	15.07	10.15	15.07	7.35
VANO 11	28.80	30.00	474.65	120.83	1280.90	343.78	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	5.20	7.72	0.16	2.60	10.15	15.07	10.15	15.07	7.72
VANO 11	28.80	31.00	474.65	120.83	1280.90	343.78	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	5.20	7.72	0.16	2.60	10.15	15.07	10.15	15.07	7.72
VANO 11	30.00	32.00	441.60	111.38	1326.51	429.57	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97	2601.48	379.70	49.87	4.00	0.60	5900.00	5.38	8.12	0.19	3.29	10.15	15.07	10.15	15.07	8.12
VANO 11	31.20	33.00	535.90	124.89	1374.16	515.32	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13	2601.48	379.70	135.62	4.00	1.63	5900.00	5.58	8.53	0.22	4.42	10.15	15.07	10.15	15.07	8.53
VANO 11	32.40	34.00	631.32	143.44	1423.73	601.01	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32	2601.48	379.70	221.31	4.00	2.66	5900.00	5.78	8.96	0.25	5.55	10.15	15.07	10.15	15.07	8.96
VANO 11	33.60	35.00	727.84	163.77	1475.23	686.63	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	306.93	4.00	3.69	5900.00	5.99	9.41	0.28	6.69	10.15	15.07	10.15	15.07	9.41
VANO 11	33.60	36.00	727.84	163.77	1475.23	686.63	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	306.93	4.00	3.69	5900.00	5.99	9.41	0.28	6.69	10.15	15.07	10.15	15.07	9.41
VANO 11	34.80	37.00	825.43	184.39	1528.65	772.18	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74	2601.48	379.70	392.48	4.00	4.72	5900.00	6.21	9.87	0.32	7.82	10.15	15.07	10.15	15.07	9.87
VANO 11	36.00	38.00	924.05	205.23	1584.00	857.66	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96	2601.48	379.70	477.96	4.00	5.75	5900.00	6.43	10.35	0.35	8.96	10.15	15.07	10.15	15.07	10.35
VANO 11	37.20	39.00	1023.67	226.30	1641.27	913.04	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21	2601.48	379.70	563.34	4.00	6.78	5900.00	6.66	10.84	0.39	10.11	10.15	15.07	10.15	15.07	10.84
VANO 11	38.40	40.00	1124.25	247.59	1700.47	1028.33	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	648.63	4.00	7.80	5900.00	6.90	11.36	0.43	11.25	10.15	15.07	11.25	15.07	11.36
VANO 11	38.40	41.00	1124.25	247.59	1700.47	1028.33	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	648.63	4.00	7.80	5900.00	6.90	11.36	0.43	11.25	10.15	15.07	11.25	15.07	11.36
VANO 11	39.60	42.00	1225.73	269.50	1761.60	1113.52	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72	2601.48	379.70	733.82	4.00	8.83	5900.00	7.15	11.88	0.47	12.40	10.15	15.07	12.40	15.07	11.88
VANO 11	40.80	43.00	1328.09	292.13	1824.64	1198.60	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00	2601.48	379.70	818.90	4.00	9.85	5900.00	7.41	12.43	0.51	13.55	10.15	15.07	13.55	15.07	12.43
VANO 11	42.00	44.00	1431.26	314.99	1889.62	1283.57	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29	2601.48	379.70	903.87	4.00	10.87	5900.00	7.67	12.99	0.55	14.71	10.15	15.07	14.71	15.07	12.99
VANO 11	43.20	45.00	1535.21	338.08	1956.52	1368.43	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	988.73	4.00	11.89	5900.00	7.94	13.57	0.60	15.86	10.15	15.07	15.86	15.86	13.57
VANO 11	43.20	46.00	1535.21	338.08	1956.52	1368.43	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	988.73	4.00	11.89	5900.00	7.94	13.57	0.60	15.86	10.15	15.07	15.86	15.86	13.57
VANO 11	44.40	47.00	1639.87	361.39	2025.34	1453.16	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63	2601.48	379.70	1073.46	4.00	11.89	5900.00	8.22	14.17	0.64	16.00	10.15	15.07	16.00	16.00	14.17
VANO 11	45.60	48.00	1745.20	384.93	2096.09	1537.76	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68	2601.48	379.70	1158.06	4.00	11.89	5900.00	8.51	14.78	0.69	16.15	10.15	15.07	16.15	16.15	14.78
VANO 11	46.80	49.00	1851.13	408.69	2168.77	1622.24	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73	2601.48	379.70	1242.54	4.00	11.89	5900.00	8.80	15.41	0.74	16.30	10.15	15.07	16.30	16.30	15.41
VANO 11	48.00	50.00	2356.13	432.66	2243.37	1706.56	2601.48	379.70	1566.43	4.00	13.90	5900.00	1.76	0.39	0.69	14.78	2601.48	379.70	1326.88	4.00	11.89	5900.00	9.11	16.05	0.79	16.45	10.15	15.07	16.45	16.45	16.05
VANO 12	0.00	1.00	2316.53	710.45	2093.30	1716.19	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08	2601.48	379.70	1336.49	4.00	12.01	5900.00	8.50	14.75	0.77	16.26	10.15	15.07	16.26	16.26	14.75
VANO 12	1.20	2.00	1801.53	683.29	2018.26	1631.85	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03	2601.48	379.70	1252.15	4.00	12.01	5900.00	8.19	14.11	0.72	16.11	10.15	15.07	16.11	16.11	14.11
VANO 12	2.40	3.00	1698.44	656.36	1945.16	1547.38	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97	2601.48	379.70	1167.68	4.00	12.01	5900.00	7.90	13.47	0.67	15.96	10.15	15.07	15.96	15.96	13.47
VANO 12	3.60	4.00	1605.64	629.66	1874.00	1462.78	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92	2601.48	379.70	1083.08	4.00	12.01	5900.00	7.61	12.86	0.63	15.81	10.15	15.07	15.81	15.81	12.86
VANO 12	4.80	5.00	1513.50	603.18	1804.78	1378.05	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	998.35	4.00	12.01	5900.00	7.33	12.26	0.58	15.67	10.15	15.07	15.67	15.67	12.26
VANO 12	4.80	6.00	1513.50	603.18	1804.78	1378.05	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	998.35	4.00	12.01	5900.00	7.33	12.26	0.58	15.67	10.15	15.07	15.67	15.67	12.26
VANO 12	6.00	7.00	1422.07	576.92	1737.50	1293.20	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71	2601.48	379.70	913.50	4.00	10.99	5900.00	7.05	11.68	0.54	14.52	10.15	15.07	14.52	15.07	11.68
VANO 12	7.20	8.00	1331.41	550.89	1672.16	1208.23	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57	2601.48	379.70	828.53	4.00	9.97	5900.00	6.79	11.11	0.49	13.36	10.15	15.07	13.36	15.07	11.11
VANO 12	8.40	9.00	1232.18	525.09	1608.77	1123.15	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32	2601.48	379.70	743.45	4.00	8.94	5900.00	6.53	10.56	0.45	12.21	10.15	15.07	12.21	15.07	10.56
VANO 12	9.60	10.00	1130.68	499.51	1547.31	1037.96	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	658.26	4.00	7.92	5900.00	6.28	10.03	0.41	11.06	10.15	15.07	11.06	15.07	10.03
VANO 12	9.60	11.00	1130.68	499.51	1547.31	1037.96	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	658.26	4.00	7.92	5900.00	6.28	10.03	0.41	11.06	10.15	15.07	11.06	15.07	10.03
VANO 12	10.80	12.00	1030.10	474.16	1487.80	952.67	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79	2601.48	379.70	572.97	4.00	6.89	5900.00	6.04	9.52	0.37	9.91	10.15	15.07	10.15	15.07	9.52
VANO 12	12.00	13.00	930.46	449.04	1430.22	867.29	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54	2601.48	379.70	487.59	4.00	5.87	5900.00	5.81	9.02	0.33	8.77	10.15	15.07	10.15	15.07	9.02
VANO 12	13.20	14.00	831.83	424.14	1374.59	781.81	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30	2601.48	379.70	402.11	4.00	4.84	5900.00	5.58	8.54	0.30	7.63	10.15	15.07	10.15	15.07	8.54
VANO 12	14.40	15.00	734.22	399.46	1320.90	696.26	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08	2601.48	379.70	316.56	4.00	3.81	5900.00	5.36	8.07	0.26	6.49	10.15	15.07	10.15	15.07	8.07
VANO 12	14.40	16.00	717.28	399.46	1320.90	679.32	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87	2601.48	379.70	299.62	4.00	3.60	5900.00	5.36	8.07	0.26	6.29	10.15	15.07	10.15	15.07	8.07
VANO 12	15.60	17.00	620.74	375.01	1269.15	593.70	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66	2601.48	379.70	214.00	4.00	2.57	5900.00	5.15	7.62	0.23	5.15	10.15	15.07	10.15	15.07	7.62
VANO 12	16.80	18.00	525.30	350.79	1219.34	508.01	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46	2601.48	379.70	128.31	4.00	1.54	5900.00	4.95	7.19	0.20	4.02	10.15	15.07	10.15	15.07	7.19
VANO 12	18.00	19.00	430.99	326.79	1171.47	422.27	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28	2601.48	379.70	42.57	4.00	0.51	5900.00	4.76	6.78	0.17	2.89	10.15	15.07	10.15	15.07	6.78
VANO 12	19.20	20.00	489.77	177.07	1125.64	336.48	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	4.57	6.38	0.14	2.28	10.15	15.07	10.15	15.07	6.38
VANO 12	19.20	21.00	489.77	177.07	1125.64	336.48	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	4.57	6.38	0.14	2.28	10.15	15.07	10.15	15.07	6.38
VANO 12	20.40	22.00	567.43	166.70	1081.97	250.65	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60	2601.48	379.70	0.00	4.00	0.00	5900.00	4.39	6.00	0.12	2.20	10.15	15.07	10.15	15.07	6.00
VANO 12	21.60	23.00	646.40	156.32	1042.99	164.79	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53	2601.48	379.70	0.00	4.00	0.00	5900.00	4.23	5.67	0.10	2.12	10.15	15.07	10.15	15.07	5.67
VANO 12	22.80	24.00	726.69	145.95	1007.26	78.92	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47	2601.48	379.70	0.00	4.00	0.00	5900.00	4.09	5.36	0.08	2.04	10.15	15.07	10.15	15.07	5.36
VANO 12	24.00	25.00	399.83	135.57	1006.77	6.97	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.09	5.35	0.08	2.04	10.15	15.07	10.15	15.07	5.35
VANO 12	24.00	26.00	399.83	135.57	1006.77	6.97	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.09	5.35	0.08	2.04	10.15	15.07	10.15	15.07	5.35
VANO 12	25.20	27.00	711.62	187.04	1043.81	92.85	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.24	5.67	0.09	2.12	10.15	15.07	10.15	15.07	5.67
VANO 12	26.40	28.00	631.31	164.70	1082.99	178.73	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36	2601.48	379.70	0.00	4.00	0.00	5900.00	4.40	6.01	0.11	2.20	10.15	15.07	10.15	15.07	6.01
VANO 12	27.60	29.00	552.32	142.63	1124.32	264.58	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.56	6.37	0.13	2.28	10.15	15.07	10.15	15.07	6.37
VANO 12	28.80	30.00	474.65	120.83	1167.80	350.41	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.74	6.75	0.15	2.37	10.15	15.07	10.15	15.07	6.75
VANO 12	28.80	31.00	474.65	120.93	1167.80	350.41	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.74	6.75	0.15	2.37	10.15	15.07	10.15	15.07	6.75
VANO 12	30.00	32.00	441.60	111.38	1213.43	436.20	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97	2601.48	379.70	56.50	4.00	0.68	5900.00	4.93	7.14	0.18	3.14	10.15	15.07	10.15	15.07	7.14
VANO 12	31.20	33.00	535.90	124.89	1261.10	521.94	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13	2601.48	379.70	142.24	4.00	1.71	5900.00	5.12	7.55	0.21	4.27	10.15	15.07	10.15	15.07	7.55
VANO 12	32.40	34.00	631.32	143.44	1310.72	607.63	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32	2601.48	379.70	227.93	4.00	2.74	5900.00	5.32	7.98	0.24	5.40	10.15	15.07	10.15	15.07	7.98
VANO 12	33.60	35.00	727.84	163.77	1362.27	693.25	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	313.55	4.00	3.77	5900.00	5.53	8.43	0.27	6.54	10.15	15.07	10.15	15.07	8.43
VANO 12	33.60	36.00	727.84	163.77	1362.27	693.25	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	313.55	4.00	3.77	5900.00	5.53	8.43	0.27	6.54	10.15	15.07	10.15	15.07	8.43
VANO 12	34.80	37.00	825.43	184.39	1415.77	778.80	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74	2601.48	379.70	399.10	4.00	4.80	5900.00	5.75	8.89	0.30	7.67	10.15	15.07	10.15	15.07	8.89
VANO 12	36.00	38.00	924.05	205.23	1471.21	864.27	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96	2601.48	379.70	484.57	4.00	5.83	5900.00	5.97	9.37	0.34	8.81	10.15	15.07	10.15	15.07	9.37
VANO 12	37.20	39.00	1023.67	226.30	1528.58	949.65	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21	2601.48	379.70	569.95	4.00	6.86	5900.00	6.20	9.87	0.38	9.96	10.15	15.07	10.15	15.07	9.87
VANO 12	38.40	40.00	1124.25	247.59	1587.90	1034.94	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	655.24	4.00	7.88	5900.00	6.45	10.38	0.41	11.10	10.15	15.07	11.10	15.07	10.38
VANO 12	38.40	41.00	1124.25	247.59	1587.90	1034.94	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	655.24	4.00	7.88	5900.00	6.45	10.38	0.41	11.10	10.15	15.07	11.10	15.07	10.38
VANO 12	39.60	42.00	1225.73	269.50	1649.18	1120.12	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72	2601.48	379.70	740.42	4.00	8.91	5900.00	6.69	10.91	0.45	12.25	10.15	15.07	12.25	15.07	10.91
VANO 12	40.80	43.00	1328.09	292.13	1712.37	1205.20	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00	2601.48	379.70	825.50	4.00	9.93	5900.00	6.95	11.46	0.50	13.41	10.15	15.07	13.41	15.07	11.46
VANO 12	42.00	44.00	1431.26	314.99	1777.51	1290.17	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29	2601.48	379.70	910.47	4.00	10.95	5900.00	7.22	12.02	0.54	14.56	10.15	15.07	14.56	15.07	12.02
VANO 12	43.20	45.00	1535.21	338.08	1844.59	1375.02	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	995.32	4.00	11.97	5900.00	7.49	12.60	0.58	15.72	10.15	15.07	15.72	15.72	12.60
VANO 12	43.20	46.00	1535.21	338.08	1844.59	1375.02	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	995.32	4.00	11.97	5900.00	7.49	12.60	0.58	15.72	10.15	15.07	15.72	15.72	12.60
VANO 12	44.40	47.00	1639.87	361.39	1913.61	1459.75	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63	2601.48	379.70	1080.05	4.00	11.97	5900.00	7.77	13.20	0.63	15.86	10.15	15.07	15.86	15.86	13.20
VANO 12	45.60	48.00	1745.20	384.93	1984.58	1544.35	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68	2601.48	379.70	1164.65	4.00	11.97	5900.00	8.06	13.81	0.68	16.00	10.15	15.07	16.00	16.00	13.81
VANO 12	46.80	49.00	1851.13	408.69	2057.49	1628.82	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73	2601.48	379.70	1249.12	4.00	11.97	5900.00	8.35	14.44	0.73	16.15	10.15	15.07	16.15	16.15	14.44

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lan. Adic
		14	Variables
Nº TENDON	6		
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS DE SECCIÓN

CARACTERISTICAS CORTANTE			
Can eficaz =	3.875	cotg tetha =	1.46
Brazo mec =	3.4875	Vu1	2601.48167
fyd cercos =	40816.3	Vcu	379.7
fck (t/m2) =	4081.6	Nº ramas =	4

CARACTERISTICAS TORSOR			
fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	Dos caras As (Tu2)	Arm long As (Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)
VANO 13	0.00	1.00	2316.53	710.45	2174.48	1715.93	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08
VANO 13	1.20	2.00	1801.53	683.29	2099.85	1631.58	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03
VANO 13	2.40	3.00	1698.44	656.36	2027.14	1547.10	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97
VANO 13	3.60	4.00	1605.64	629.66	1956.37	1462.50	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92
VANO 13	4.80	5.00	1513.50	603.18	1887.51	1377.76	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86
VANO 13	4.80	6.00	1513.50	603.18	1887.51	1377.76	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86
VANO 13	6.00	7.00	1422.07	576.92	1820.59	1292.91	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71
VANO 13	7.20	8.00	1331.41	550.89	1755.59	1207.93	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57
VANO 13	8.40	9.00	1232.18	525.09	1692.52	1122.85	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32
VANO 13	9.60	10.00	1130.68	499.51	1631.37	1037.65	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05
VANO 13	9.60	11.00	1130.68	499.51	1631.37	1037.65	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05
VANO 13	10.80	12.00	1030.10	474.16	1572.15	952.36	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79
VANO 13	12.00	13.00	930.46	449.04	1514.85	866.97	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54
VANO 13	13.20	14.00	831.83	424.14	1459.49	781.49	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30
VANO 13	14.40	15.00	734.22	399.46	1406.04	695.94	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08
VANO 13	14.40	16.00	717.28	399.46	1406.04	678.99	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87
VANO 13	15.60	17.00	620.74	375.01	1354.53	593.36	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66
VANO 13	16.80	18.00	525.30	350.79	1304.94	507.67	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46
VANO 13	18.00	19.00	430.99	326.79	1257.27	421.92	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28
VANO 13	19.20	20.00	489.77	177.07	1211.64	336.13	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68
VANO 13	19.20	21.00	489.77	177.07	1211.64	336.13	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68
VANO 13	20.40	22.00	567.43	166.70	1168.13	250.29	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60
VANO 13	21.60	23.00	646.40	156.32	1126.77	164.43	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53
VANO 13	22.80	24.00	726.69	145.95	1087.53	78.55	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47
VANO 13	24.00	25.00	399.83	135.57	1050.43	7.36	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52
VANO 13	24.00	26.00	399.83	135.57	1050.43	7.36	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52
VANO 13	25.20	27.00	711.62	187.04	1053.00	93.23	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37
VANO 13	26.40	28.00	631.31	164.70	1090.94	179.11	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36
VANO 13	27.60	29.00	552.32	142.63	1132.14	264.97	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37
VANO 13	28.80	30.00	474.65	120.83	1175.47	350.80	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39
VANO 13	28.80	31.00	474.65	120.83	1175.47	350.80	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39
VANO 13	30.00	32.00	441.60	111.38	1220.94	436.60	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97
VANO 13	31.20	33.00	535.90	124.89	1268.43	522.35	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13
VANO 13	32.40	34.00	631.32	143.44	1317.86	608.04	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32
VANO 13	33.60	35.00	727.84	163.77	1369.20	693.67	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52
VANO 13	33.60	36.00	727.84	163.77	1369.20	693.67	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52
VANO 13	34.80	37.00	825.43	184.39	1422.48	779.22	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74
VANO 13	36.00	38.00	924.05	205.23	1477.68	864.70	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96
VANO 13	37.20	39.00	1023.67	226.30	1534.81	950.09	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21
VANO 13	38.40	40.00	1124.25	247.59	1593.86	1035.38	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46
VANO 13	38.40	41.00	1124.25	247.59	1593.86	1035.38	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46
VANO 13	39.60	42.00	1225.73	269.50	1654.84	1120.57	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72
VANO 13	40.80	43.00	1328.09	292.13	1717.75	1205.65	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00
VANO 13	42.00	44.00	1431.26	314.99	1782.58	1290.62	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29
VANO 13	43.20	45.00	1535.21	338.08	1849.34	1375.47	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59
VANO 13	43.20	46.00	1535.21	338.08	1849.34	1375.47	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59
VANO 13	44.40	47.00	1639.87	361.39	1918.03	1460.21	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63
VANO 13	45.60	48.00	1745.20	384.93	1988.64	1544.81	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68
VANO 13	46.80	49.00	1851.13	408.69	2061.18	1629.29	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73
VANO 13	48.00	50.00	2366.13	432.66	2135.65	1713.63	2601.48	379.70	1986.43	4.00	13.90	5900.00	1.76	0.39	0.89	14.78
VANO 14	0.00	1.00	2316.53	710.45	2235.21	1721.92	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08
VANO 14	1.20	2.00	1801.53	683.29	2160.26	1637.58	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03
VANO 14	2.40	3.00	1698.44	656.36	2087.24	1553.11	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97
VANO 14	3.60	4.00	1605.64	629.66	2016.14	1458.51	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92
VANO 14	4.80	5.00	1513.50	603.18	1946.97	1383.78	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86
VANO 14	4.80	6.00	1513.50	603.18	1946.97	1333.78	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86
VANO 14	6.00	7.00	1422.07	576.92	1879.73	1298.93	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71
VANO 14	7.20	8.00	1331.41	550.89	1814.42	1213.96	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57
VANO 14	8.40	9.00	1232.18	525.09	1751.04	1128.88	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32
VANO 14	9.60	10.00	1130.68	499.51	1689.58	1043.69	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05
VANO 14	9.60	11.00	1130.68	499.51	1689.58	1013.69	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05
VANO 14	10.80	12.00	1030.10	474.16	1630.05	958.40	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79
VANO 14	12.00	13.00	930.46	449.04	1572.46	873.01	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54
VANO 14	13.20	14.00	831.83	424.14	1516.78	787.54	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30
VANO 14	14.40	15.00	734.22	399.46	1463.04	701.99	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08
VANO 14	14.40	16.00	717.28	399.46	1463.04	685.05	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87
VANO 14	15.60	17.00	620.74	375.01	1411.23	599.42	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66
VANO 14	16.80	18.00	525.30	350.79	1361.34	513.73	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46
VANO 14	18.00	19.00	430.99	326.79	1313.38	427.98	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28
VANO 14	19.20	20.00	489.77	177.07	1267.45	342.19	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68
VANO 14	19.20	21.00	489.77	177.07	1267.45	342.19	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68
VANO 14	20.40	22.00	567.43	166.70	1223.66	256.36	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60
VANO 14	21.60	23.00	646.40	156.32	1182.00	170.50	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53
VANO 14	22.80	24.00	726.69	145.95	1142.48	84.63	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47
VANO 14	24.00	25.00	399.83	135.57	1105.09	2.42	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52
VANO 14	24.00	26.00	399.83	135.57	1105.09	2.42	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52
VANO 14	25.20	27.00	711.62	187.04	1077.35	88.01	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37
VANO 14	26.40	28.00	631.31	164.70	1069.15	173.03	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36
VANO 14	27.60	29.00	552.32	142.63	1100.17	258.89	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37
VANO 14	28.80	30.00	474.65	120.83	1139.29	344.72	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39
VANO 14	28.80	31.00	474.65	120.83	1139.29	344.72	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39
VANO 14	30.00	32.00	441.60	111.38	1181.32	430.51	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97
VANO 14	31.20	33.00	535.90	124.89	1225.64	516.26	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13
VANO 14	32.40	34.00	631.32	143.44	1271.91	601.95	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32
VANO 14	33.60	35.00	727.84	163.77	1320.10	687.58	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52
VANO 14	33.60	36.00	727.84	163.77	1320.10	687.58	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52
VANO 14	34.80	37.00	825.43	184.39	1371.34	773.13	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74
VANO 14	36.00	38.00	924.05	205.23	1426.35	858.61	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96
VANO 14	37.20	39.00	1023.67	226.30	1483.29	944.00	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21
VANO 14	38.40	40.00	1124.25	247.59	1542.16	1029.29	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46
VANO 14	38.40	41.00	1124.25	247.59	1542.16	1029.29	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46
VANO 14	39.60	42.00	1225.73	269.50	1602.95	1114.48	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72
VANO 14	40.80	43.00	1328.09	292.13	1665.68	1199.57	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00
VANO 14	42.00	44.00	1431.26	314.99	1730.33	1284.54	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29
VANO 14	43.20	45.00	1535.21	338.08	1796.91	1369.40	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59
VANO 14	43.20	46.00	1535.21	338.08	1796.91	1369.40	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59
VANO 14	44.40	47.00	1639.87	361.39	1865.41	1454.13	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63
VANO 14	45.60	48.00	1745.20	384.93	1935.85	1538.74	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68
VANO 14	46.80	49.00	1851.13	408.69	2008.21	1623.22	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC — ARMADO DEFINITIVO

	Nudo	Vu1	Vcu	Vsu	Ramas	Una rama As Cerc	Tu1	Dos caras As (Tu2)	Arm long As(Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	FLEXIÓN TRANS As ext	As int	ARMADO DEFINITIVO As ext	As int	As long/m
VANO 13	1.00	2601.48	379.70	1336.23	4.00	12.01	5900.00	8.83	15.46	0.78	16.42	10.15	15.07	16.42	16.42	15.46
VANO 13	2.00	2601.48	379.70	1251.88	4.00	12.01	5900.00	8.52	14.81	0.73	16.27	10.15	15.07	16.27	16.27	14.81
VANO 13	3.00	2601.48	379.70	1167.40	4.00	12.01	5900.00	8.23	14.18	0.69	16.12	10.15	15.07	16.12	16.12	14.18
VANO 13	4.00	2601.48	379.70	1082.80	4.00	12.01	5900.00	7.94	13.57	0.64	15.98	10.15	15.07	15.98	15.98	13.57
VANO 13	5.00	2601.48	379.70	998.06	4.00	12.01	5900.00	7.66	12.97	0.59	15.84	10.15	15.07	15.84	15.84	12.97
VANO 13	6.00	2601.48	379.70	998.06	4.00	12.01	5900.00	7.66	12.97	0.59	15.84	10.15	15.07	15.84	15.84	12.97
VANO 13	7.00	2601.48	379.70	913.21	4.00	10.99	5900.00	7.39	12.39	0.55	14.68	10.15	15.07	14.68	15.07	12.39
VANO 13	8.00	2601.48	379.70	828.23	4.00	9.96	5900.00	7.13	11.83	0.50	13.53	10.15	15.07	13.53	15.07	11.83
VANO 13	9.00	2601.48	379.70	743.15	4.00	8.94	5900.00	6.87	11.29	0.46	12.37	10.15	15.07	12.37	15.07	11.29
VANO 13	10.00	2601.48	379.70	657.95	4.00	7.91	5900.00	6.62	10.76	0.42	11.23	10.15	15.07	11.23	15.07	10.76
VANO 13	11.00	2601.48	379.70	657.95	4.00	7.91	5900.00	6.62	10.76	0.42	11.23	10.15	15.07	11.23	15.07	10.76
VANO 13	12.00	2601.48	379.70	572.66	4.00	6.89	5900.00	6.38	10.24	0.38	10.08	10.15	15.07	10.15	15.07	10.24
VANO 13	13.00	2601.48	379.70	487.27	4.00	5.86	5900.00	6.15	9.75	0.34	8.94	10.15	15.07	10.15	15.07	9.75
VANO 13	14.00	2601.48	379.70	401.79	4.00	4.83	5900.00	5.92	9.27	0.31	7.80	10.15	15.07	10.15	15.07	9.27
VANO 13	15.00	2601.48	379.70	316.24	4.00	3.80	5900.00	5.71	8.81	0.27	6.66	10.15	15.07	10.15	15.07	8.81
VANO 13	16.00	2601.48	379.70	299.29	4.00	3.60	5900.00	5.71	8.81	0.27	6.45	10.15	15.07	10.15	15.07	8.81
VANO 13	17.00	2601.48	379.70	213.66	4.00	2.57	5900.00	5.50	8.36	0.24	5.32	10.15	15.07	10.15	15.07	8.36
VANO 13	18.00	2601.48	379.70	127.97	4.00	1.54	5900.00	5.30	7.93	0.21	4.19	10.15	15.07	10.15	15.07	7.93
VANO 13	19.00	2601.48	379.70	42.22	4.00	0.51	5900.00	5.10	7.52	0.18	3.06	10.15	15.07	10.15	15.07	7.52
VANO 13	20.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.92	7.13	0.15	2.46	10.15	15.07	10.15	15.07	7.13
VANO 13	21.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.92	7.13	0.15	2.46	10.15	15.07	10.15	15.07	7.13
VANO 13	22.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.74	6.75	0.13	2.37	10.15	15.07	10.15	15.07	6.75
VANO 13	23.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.57	6.39	0.11	2.29	10.15	15.07	10.15	15.07	6.39
VANO 13	24.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.41	6.05	0.09	2.21	10.15	15.07	10.15	15.07	6.05
VANO 13	25.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.26	5.73	0.08	2.13	10.15	15.07	10.15	15.07	5.73
VANO 13	26.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.26	5.73	0.08	2.13	10.15	15.07	10.15	15.07	5.73
VANO 13	27.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.27	5.75	0.09	2.14	10.15	15.07	10.15	15.07	5.75
VANO 13	28.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.43	6.08	0.11	2.21	10.15	15.07	10.15	15.07	6.08
VANO 13	29.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.60	6.44	0.13	2.30	10.15	15.07	10.15	15.07	6.44
VANO 13	30.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.77	6.81	0.15	2.39	10.15	15.07	10.15	15.07	6.81
VANO 13	31.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.77	6.81	0.15	2.39	10.15	15.07	10.15	15.07	6.81
VANO 13	32.00	2601.48	379.70	56.90	4.00	0.68	5900.00	4.96	7.21	0.18	3.16	10.15	15.07	10.15	15.07	7.21
VANO 13	33.00	2601.48	379.70	142.65	4.00	1.72	5900.00	5.15	7.62	0.21	4.29	10.15	15.07	10.15	15.07	7.62
VANO 13	34.00	2601.48	379.70	228.34	4.00	2.75	5900.00	5.35	8.04	0.24	5.42	10.15	15.07	10.15	15.07	8.04
VANO 13	35.00	2601.48	379.70	313.97	4.00	3.78	5900.00	5.56	8.49	0.27	6.56	10.15	15.07	10.15	15.07	8.49
VANO 13	36.00	2601.48	379.70	313.97	4.00	3.78	5900.00	5.56	8.49	0.27	6.56	10.15	15.07	10.15	15.07	8.49
VANO 13	37.00	2601.48	379.70	399.52	4.00	4.81	5900.00	5.77	8.95	0.30	7.69	10.15	15.07	10.15	15.07	8.95
VANO 13	38.00	2601.48	379.70	485.00	4.00	5.83	5900.00	6.00	9.43	0.34	8.83	10.15	15.07	10.15	15.07	9.43
VANO 13	39.00	2601.48	379.70	570.39	4.00	6.86	5900.00	6.23	9.92	0.38	9.98	10.15	15.07	10.15	15.07	9.92
VANO 13	40.00	2601.48	379.70	655.68	4.00	7.89	5900.00	6.47	10.43	0.42	11.12	10.15	15.07	11.12	15.07	10.43
VANO 13	41.00	2601.48	379.70	655.68	4.00	7.89	5900.00	6.47	10.43	0.42	11.12	10.15	15.07	11.12	15.07	10.43
VANO 13	42.00	2601.48	379.70	740.87	4.00	8.91	5900.00	6.72	10.96	0.46	12.27	10.15	15.07	12.27	15.07	10.96
VANO 13	43.00	2601.48	379.70	825.95	4.00	9.94	5900.00	6.97	11.50	0.50	13.42	10.15	15.07	13.42	15.07	11.50
VANO 13	44.00	2601.48	379.70	910.92	4.00	10.96	5900.00	7.24	12.07	0.54	14.58	10.15	15.07	14.58	15.07	12.07
VANO 13	45.00	2601.48	379.70	995.77	4.00	11.98	5900.00	7.51	12.64	0.59	15.73	10.15	15.07	15.73	15.73	12.64
VANO 13	46.00	2601.48	379.70	995.77	4.00	11.98	5900.00	7.51	12.64	0.59	15.73	10.15	15.07	15.73	15.73	12.64
VANO 13	47.00	2601.48	379.70	1080.51	4.00	11.98	5900.00	7.79	13.24	0.63	15.87	10.15	15.07	15.87	15.87	13.24
VANO 13	48.00	2601.48	379.70	1165.11	4.00	11.98	5900.00	8.07	13.85	0.68	16.01	10.15	15.07	16.01	16.01	13.85
VANO 13	49.00	2601.48	379.70	1249.59	4.00	11.98	5900.00	8.37	14.48	0.73	16.16	10.15	15.07	16.16	16.16	14.48
VANO 13	50.00	2601.48	379.70	1333.93	4.00	11.98	5900.00	8.67	15.12	0.78	16.31	10.15	15.07	16.31	16.31	15.12
VANO 14	1.00	2601.48	379.70	1342.22	4.00	12.08	5900.00	9.07	15.98	0.80	16.61	10.15	15.07	16.61	16.61	15.98
VANO 14	2.00	2601.48	379.70	1257.88	4.00	12.08	5900.00	8.77	15.33	0.75	16.46	10.15	15.07	16.46	16.46	15.33
VANO 14	3.00	2601.48	379.70	1173.41	4.00	12.08	5900.00	8.47	14.70	0.70	16.31	10.15	15.07	16.31	16.31	14.70
VANO 14	4.00	2601.48	379.70	1088.81	4.00	12.08	5900.00	8.18	14.09	0.65	16.17	10.15	15.07	16.17	16.17	14.09
VANO 14	5.00	2601.48	379.70	1004.08	4.00	12.08	5900.00	7.90	13.49	0.60	16.03	10.15	15.07	16.03	16.03	13.49
VANO 14	6.00	2601.48	379.70	1004.08	4.00	12.08	5900.00	7.90	13.49	0.60	16.03	10.15	15.07	16.03	16.03	13.49
VANO 14	7.00	2601.48	379.70	919.23	4.00	11.06	5900.00	7.63	12.91	0.56	14.87	10.15	15.07	14.87	15.07	12.91
VANO 14	8.00	2601.48	379.70	834.26	4.00	10.04	5900.00	7.37	12.34	0.51	13.72	10.15	15.07	13.72	15.07	12.34
VANO 14	9.00	2601.48	379.70	749.18	4.00	9.01	5900.00	7.11	11.79	0.47	12.57	10.15	15.07	12.57	15.07	11.79
VANO 14	10.00	2601.48	379.70	663.99	4.00	7.99	5900.00	6.86	11.26	0.43	11.42	10.15	15.07	11.42	15.07	11.26
VANO 14	11.00	2601.48	379.70	663.99	4.00	7.99	5900.00	6.86	11.26	0.43	11.42	10.15	15.07	11.42	15.07	11.26
VANO 14	12.00	2601.48	379.70	578.70	4.00	6.96	5900.00	6.62	10.75	0.39	10.27	10.15	15.07	10.27	15.07	10.75
VANO 14	13.00	2601.48	379.70	493.31	4.00	5.93	5900.00	6.38	10.25	0.35	9.13	10.15	15.07	10.15	15.07	10.25
VANO 14	14.00	2601.48	379.70	407.84	4.00	4.91	5900.00	6.16	9.77	0.32	7.98	10.15	15.07	10.15	15.07	9.77
VANO 14	15.00	2601.48	379.70	322.29	4.00	3.88	5900.00	5.94	9.30	0.28	6.85	10.15	15.07	10.15	15.07	9.30
VANO 14	16.00	2601.48	379.70	305.35	4.00	3.67	5900.00	5.94	9.30	0.28	6.64	10.15	15.07	10.15	15.07	9.30
VANO 14	17.00	2601.48	379.70	219.72	4.00	2.64	5900.00	5.73	8.85	0.25	5.51	10.15	15.07	10.15	15.07	8.85
VANO 14	18.00	2601.48	379.70	134.03	4.00	1.61	5900.00	5.53	8.42	0.22	4.38	10.15	15.07	10.15	15.07	8.42
VANO 14	19.00	2601.48	379.70	48.28	4.00	0.58	5900.00	5.33	8.01	0.19	3.25	10.15	15.07	10.15	15.07	8.01
VANO 14	20.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.14	7.61	0.16	2.57	10.15	15.07	10.15	15.07	7.61
VANO 14	21.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.14	7.61	0.16	2.57	10.15	15.07	10.15	15.07	7.61
VANO 14	22.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.97	7.23	0.14	2.48	10.15	15.07	10.15	15.07	7.23
VANO 14	23.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.80	6.87	0.12	2.40	10.15	15.07	10.15	15.07	6.87
VANO 14	24.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.64	6.53	0.10	2.32	10.15	15.07	10.15	15.07	6.53
VANO 14	25.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.49	6.20	0.09	2.24	10.15	15.07	10.15	15.07	6.20
VANO 14	26.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.49	6.20	0.09	2.24	10.15	15.07	10.15	15.07	6.20
VANO 14	27.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.37	5.96	0.09	2.19	10.15	15.07	10.15	15.07	5.96
VANO 14	28.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.34	5.89	0.10	2.17	10.15	15.07	10.15	15.07	5.89
VANO 14	29.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.47	6.16	0.12	2.23	10.15	15.07	10.15	15.07	6.16
VANO 14	30.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.62	6.50	0.15	2.31	10.15	15.07	10.15	15.07	6.50
VANO 14	31.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.62	6.50	0.15	2.31	10.15	15.07	10.15	15.07	6.50
VANO 14	32.00	2601.48	379.70	50.81	4.00	0.61	5900.00	4.80	6.86	0.17	3.01	10.15	15.07	10.15	15.07	6.86
VANO 14	33.00	2601.48	379.70	136.56	4.00	1.64	5900.00	4.98	7.25	0.20	4.13	10.15	15.07	10.15	15.07	7.25
VANO 14	34.00	2601.48	379.70	222.25	4.00	2.67	5900.00	5.16	7.65	0.23	5.25	10.15	15.07	10.15	15.07	7.65
VANO 14	35.00	2601.48	379.70	307.88	4.00	3.70	5900.00	5.36	8.06	0.26	6.38	10.15	15.07	10.15	15.07	8.06
VANO 14	36.00	2601.48	379.70	307.88	4.00	3.70	5900.00	5.36	8.06	0.26	6.38	10.15	15.07	10.15	15.07	8.06
VANO 14	37.00	2601.48	379.70	393.43	4.00	4.73	5900.00	5.57	8.51	0.29	7.52	10.15	15.07	10.15	15.07	8.51
VANO 14	38.00	2601.48	379.70	478.91	4.00	5.76	5900.00	5.79	8.98	0.33	8.66	10.15	15.07	10.15	15.07	8.98
VANO 14	39.00	2601.48	379.70	564.30	4.00	6.79	5900.00	6.02	9.48	0.37	9.80	10.15	15.07	10.15	15.07	9.48
VANO 14	40.00	2601.48	379.70	649.59	4.00	7.81	5900.00	6.26	9.99	0.41	10.94	10.15	15.07	10.94	15.07	9.99
VANO 14	41.00	2601.48	379.70	649.59	4.00	7.81	5900.00	6.26	9.99	0.41	10.94	10.15	15.07	10.94	15.07	9.99
VANO 14	42.00	2601.48	379.70	734.78	4.00	8.84	5900.00	6.51	10.51	0.45	12.09	10.15	15.07	12.09	15.07	10.51
VANO 14	43.00	2601.48	379.70	819.87	4.00	9.86	5900.00	6.76	11.05	0.49	13.24	10.15	15.07	13.24	15.07	11.05
VANO 14	44.00	2601.48	379.70	904.84	4.00	10.88	5900.00	7.02	11.61	0.53	14.40	10.15	15.07	14.40	15.07	11.61
VANO 14	45.00	2601.48	379.70	989.70	4.00	11.91	5900.00	7.29	12.19	0.58	15.55	10.15	15.07	15.55	15.55	12.19
VANO 14	46.00	2601.48	379.70	989.70	4.00	11.91	5900.00	7.29	12.19	0.58	15.55	10.15	15.07	15.55	15.55	12.19
VANO 14	47.00	2601.48	379.70	1074.43	4.00	11.91	5900.00	7.57	12.78	0.62	15.69	10.15	15.07	15.69	15.69	12.78
VANO 14	48.00	2601.48	379.70	1159.04	4.00	11.91	5900.00	7.86	13.39	0.67	15.83	10.15	15.07	15.83	15.83	13.39
VANO 14	49.00	2601.48	379.70	1243.52	4.00	11.91	5900.00	8.15	14.02	0.72	15.98	10.15	15.07	15.98	15.98	14.02

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lan. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS DE SECCIÓN

CARACTERISTICAS CORTANTE

Can eficaz =	3.875	cotg tetha =	1.46
Brazo mec =	3.4875	Vu1	2601.48167
fyd cercos =	40816.3	Vcu	379.7
fck (t/m2) =	4081.6	N º ramas =	4

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC | **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** | **ARMADO DEFINITIVO**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	Dos caras As (Tu2)	Arm long As (Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	Vu1	Vcu	Vsu	Ramas	Una rama As Cerc	Tu1	Dos caras As (Tu2)	Arm long As(Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	FLEXIÓN TRANS As ext	As int	As ext	As int	As long/m
VANO 15	0.00	1.00	2316.53	710.45	2323.20	1715.51	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08	2601.48	379.70	1335.81	4.00	12.00	5900.00	9.43	16.74	0.81	16.72	10.15	15.07	16.72	16.72	16.74
VANO 15	1.20	2.00	1801.53	683.29	2247.92	1631.17	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03	2601.48	379.70	1251.47	4.00	12.00	5900.00	9.12	16.09	0.76	16.56	10.15	15.07	16.56	16.56	16.09
VANO 15	2.40	3.00	1698.44	656.36	2174.57	1546.70	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97	2601.48	379.70	1167.00	4.00	12.00	5900.00	8.83	15.46	0.71	16.41	10.15	15.07	16.41	16.41	15.46
VANO 15	3.60	4.00	1605.64	629.66	2103.15	1462.10	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92	2601.48	379.70	1082.40	4.00	12.00	5900.00	8.54	14.84	0.66	16.27	10.15	15.07	16.27	16.27	14.84
VANO 15	4.80	5.00	1513.50	603.18	2033.65	1377.38	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	997.68	4.00	12.00	5900.00	8.26	14.24	0.61	16.13	10.15	15.07	16.13	16.13	14.24
VANO 15	4.80	6.00	1513.50	603.18	2033.65	1377.38	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	997.68	4.00	12.00	5900.00	8.26	14.24	0.61	16.13	10.15	15.07	16.13	16.13	14.24
VANO 15	6.00	7.00	1422.07	576.92	1966.08	1292.53	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71	2601.48	379.70	912.83	4.00	10.98	5900.00	7.98	13.65	0.57	14.97	10.15	15.07	14.97	15.07	13.65
VANO 15	7.20	8.00	1331.41	550.89	1900.44	1207.57	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57	2601.48	379.70	827.87	4.00	9.96	5900.00	7.71	13.09	0.52	13.82	10.15	15.07	13.82	15.07	13.09
VANO 15	8.40	9.00	1232.18	525.09	1836.73	1122.49	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32	2601.48	379.70	742.79	4.00	8.94	5900.00	7.46	12.53	0.48	12.66	10.15	15.07	12.66	15.07	12.53
VANO 15	9.60	10.00	1130.68	499.51	1774.94	1037.30	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	657.60	4.00	7.91	5900.00	7.20	12.00	0.44	11.51	10.15	15.07	11.51	15.07	12.00
VANO 15	9.60	11.00	1130.68	499.51	1774.94	1037.30	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	657.60	4.00	7.91	5900.00	7.20	12.00	0.44	11.51	10.15	15.07	11.51	15.07	12.00
VANO 15	10.80	12.00	1030.10	474.16	1715.08	952.02	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79	2601.48	379.70	572.32	4.00	6.88	5900.00	6.96	11.48	0.40	10.37	10.15	15.07	10.37	15.07	11.48
VANO 15	12.00	13.00	930.46	449.04	1657.14	866.64	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54	2601.48	379.70	486.94	4.00	5.86	5900.00	6.73	10.98	0.36	9.22	10.15	15.07	10.15	15.07	10.98
VANO 15	13.20	14.00	831.83	424.14	1601.13	781.17	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30	2601.48	379.70	401.47	4.00	4.83	5900.00	6.50	10.50	0.33	8.08	10.15	15.07	10.15	15.07	10.50
VANO 15	14.40	15.00	734.22	399.46	1547.05	695.63	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08	2601.48	379.70	315.93	4.00	3.80	5900.00	6.28	10.03	0.29	6.94	10.15	15.07	10.15	15.07	10.03
VANO 15	14.40	16.00	717.28	399.46	1547.05	678.68	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87	2601.48	379.70	298.98	4.00	3.60	5900.00	6.28	10.03	0.29	6.74	10.15	15.07	10.15	15.07	10.03
VANO 15	15.60	17.00	620.74	375.01	1494.90	593.06	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66	2601.48	379.70	213.36	4.00	2.57	5900.00	6.07	9.58	0.26	5.60	10.15	15.07	10.15	15.07	9.58
VANO 15	16.80	18.00	525.30	350.79	1444.67	507.38	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46	2601.48	379.70	127.68	4.00	1.54	5900.00	5.86	9.14	0.23	4.47	10.15	15.07	10.15	15.07	9.14
VANO 15	18.00	19.00	430.99	326.79	1396.37	421.64	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28	2601.48	379.70	41.94	4.00	0.50	5900.00	5.67	8.72	0.20	3.34	10.15	15.07	10.15	15.07	8.72
VANO 15	19.20	20.00	489.77	177.07	1350.10	335.85	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.48	8.32	0.17	2.74	10.15	15.07	10.15	15.07	8.32
VANO 15	19.20	21.00	489.77	177.07	1350.10	335.85	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.48	8.32	0.17	2.74	10.15	15.07	10.15	15.07	8.32
VANO 15	20.40	22.00	567.43	166.70	1305.97	250.03	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60	2601.48	379.70	0.00	4.00	0.00	5900.00	5.30	7.94	0.15	2.65	10.15	15.07	10.15	15.07	7.94
VANO 15	21.60	23.00	646.40	156.32	1263.97	164.17	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53	2601.48	379.70	0.00	4.00	0.00	5900.00	5.13	7.58	0.13	2.57	10.15	15.07	10.15	15.07	7.58
VANO 15	22.80	24.00	726.69	145.95	1224.10	78.30	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47	2601.48	379.70	0.00	4.00	0.00	5900.00	4.97	7.23	0.11	2.48	10.15	15.07	10.15	15.07	7.23
VANO 15	24.00	25.00	399.83	135.57	1186.36	7.60	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.82	6.91	0.10	2.41	10.15	15.07	10.15	15.07	6.91
VANO 15	24.00	26.00	399.83	135.57	1186.36	7.60	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.82	6.91	0.10	2.41	10.15	15.07	10.15	15.07	6.91
VANO 15	25.20	27.00	711.62	187.04	1150.76	94.38	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.67	6.60	0.10	2.34	10.15	15.07	10.15	15.07	6.60
VANO 15	26.40	28.00	631.31	164.70	1128.16	181.15	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36	2601.48	379.70	0.00	4.00	0.00	5900.00	4.58	6.40	0.11	2.29	10.15	15.07	10.15	15.07	6.40
VANO 15	27.60	29.00	552.32	142.63	1111.63	267.91	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.51	6.26	0.13	2.26	10.15	15.07	10.15	15.07	6.26
VANO 15	28.80	30.00	474.65	120.83	1108.84	351.01	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.50	6.24	0.14	2.25	10.15	15.07	10.15	15.07	6.24
VANO 15	28.80	31.00	474.65	120.83	1108.84	351.01	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.50	6.24	0.14	2.25	10.15	15.07	10.15	15.07	6.24
VANO 15	30.00	32.00	441.60	111.38	1143.86	436.80	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97	2601.48	379.70	57.10	4.00	0.69	5900.00	4.64	6.54	0.17	3.01	10.15	15.07	10.15	15.07	6.54
VANO 15	31.20	33.00	535.90	124.89	1180.92	522.54	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13	2601.48	379.70	142.84	4.00	1.72	5900.00	4.79	6.86	0.20	4.12	10.15	15.07	10.15	15.07	6.86
VANO 15	32.40	34.00	631.32	143.44	1224.70	608.23	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32	2601.48	379.70	228.53	4.00	2.75	5900.00	4.97	7.24	0.23	5.23	10.15	15.07	10.15	15.07	7.24
VANO 15	33.60	35.00	727.84	163.77	1271.98	693.85	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	314.15	4.00	3.78	5900.00	5.16	7.65	0.26	6.36	10.15	15.07	10.15	15.07	7.65
VANO 15	33.60	36.00	727.84	163.77	1271.98	693.85	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	314.15	4.00	3.78	5900.00	5.16	7.65	0.26	6.36	10.15	15.07	10.15	15.07	7.65
VANO 15	34.80	37.00	825.43	184.39	1321.25	779.40	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74	2601.48	379.70	399.70	4.00	4.81	5900.00	5.36	8.07	0.29	7.49	10.15	15.07	10.15	15.07	8.07
VANO 15	36.00	38.00	924.05	205.23	1372.43	864.87	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96	2601.48	379.70	485.17	4.00	5.84	5900.00	5.57	8.52	0.33	8.62	10.15	15.07	10.15	15.07	8.52
VANO 15	37.20	39.00	1023.67	226.30	1425.55	950.25	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21	2601.48	379.70	570.55	4.00	6.86	5900.00	5.79	8.98	0.36	9.76	10.15	15.07	10.15	15.07	8.98
VANO 15	38.40	40.00	1124.25	247.59	1480.59	1035.54	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	655.84	4.00	7.89	5900.00	6.01	9.45	0.40	10.89	10.15	15.07	10.89	15.07	9.45
VANO 15	38.40	41.00	1124.25	247.59	1480.59	1035.54	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	655.84	4.00	7.89	5900.00	6.01	9.45	0.40	10.89	10.15	15.07	10.89	15.07	9.45
VANO 15	39.60	42.00	1225.73	269.50	1537.82	1120.73	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72	2601.48	379.70	741.03	4.00	8.91	5900.00	6.24	9.95	0.44	12.04	10.15	15.07	12.04	15.07	9.95
VANO 15	40.80	43.00	1328.09	292.13	1597.31	1205.81	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00	2601.48	379.70	826.11	4.00	9.94	5900.00	6.48	10.46	0.48	13.18	10.15	15.07	13.18	15.07	10.46
VANO 15	42.00	44.00	1431.26	314.99	1658.72	1290.78	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29	2601.48	379.70	911.08	4.00	10.96	5900.00	6.73	10.99	0.52	14.33	10.15	15.07	14.33	15.07	10.99
VANO 15	43.20	45.00	1535.21	338.08	1722.07	1375.63	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	995.93	4.00	11.98	5900.00	6.99	11.54	0.57	15.48	10.15	15.07	15.48	15.48	11.54
VANO 15	43.20	46.00	1535.21	338.08	1722.07	1375.63	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	995.93	4.00	11.98	5900.00	6.99	11.54	0.57	15.48	10.15	15.07	15.48	15.48	11.54
VANO 15	44.40	47.00	1639.87	361.39	1787.33	1460.36	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63	2601.48	379.70	1080.66	4.00	11.98	5900.00	7.26	12.11	0.61	15.61	10.15	15.07	15.61	15.61	12.11
VANO 15	45.60	48.00	1745.20	384.93	1854.53	1544.96	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68	2601.48	379.70	1165.26	4.00	11.98	5900.00	7.53	12.69	0.66	15.74	10.15	15.07	15.74	15.74	12.69
VANO 15	46.80	49.00	1851.13	408.69	1923.65	1629.44	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73	2601.48	379.70	1249.74	4.00	11.98	5900.00	7.81	13.29	0.71	15.88	10.15	15.07	15.88	15.88	13.29
VANO 16	48.00	50.00	2366.13	432.68	1994.70	1713.78	2601.48	379.70	1986.43	4.00	13.90	5900.00	1.76	0.39	0.89	14.79	2601.48	379.70	1334.08	4.00	11.98	5900.00	8.10	13.90	0.76	16.03	10.15	15.07	16.03	16.03	13.90
VANO 16	0.00	1.00	2316.53	710.45	2288.31	1719.36	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08	2601.48	379.70	1339.66	4.00	12.05	5900.00	9.29	16.44	0.80	16.69	10.15	15.07	16.69	16.69	16.44
VANO 16	1.20	2.00	1801.53	683.29	2213.51	1635.02	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03	2601.48	379.70	1255.32	4.00	12.05	5900.00	8.99	15.79	0.75	16.54	10.15	15.07	16.54	16.54	15.79
VANO 16	2.40	3.00	1698.44	656.36	2140.63	1550.55	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97	2601.48	379.70	1170.85	4.00	12.05	5900.00	8.69	15.16	0.70	16.39	10.15	15.07	16.39	16.39	15.16
VANO 16	3.60	4.00	1605.64	629.66	2069.66	1465.96	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92	2601.48	379.70	1086.26	4.00	12.05	5900.00	8.40	14.55	0.66	16.25	10.15	15.07	16.25	16.25	14.55
VANO 16	4.80	5.00	1513.50	603.18	2000.60	1381.23	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	1001.53	4.00	12.05	5900.00	8.12	13.95	0.61	16.11	10.15	15.07	16.11	16.11	13.95
VANO 16	4.80	6.00	1513.50	603.18	2000.60	1381.23	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	1001.53	4.00	12.05	5900.00	8.12	13.95	0.61	16.11	10.15	15.07	16.11	16.11	13.95
VANO 16	6.00	7.00	1422.07	576.92	1933.46	1296.38	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71	2601.48	379.70	916.68	4.00	11.03	5900.00	7.85	13.37	0.57	14.95	10.15	15.07	14.95	15.07	13.37
VANO 16	7.20	8.00	1331.41	550.89	1868.23	1211.42	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57	2601.48	379.70	831.72	4.00	10.00	5900.00	7.58	12.81	0.52	13.80	10.15	15.07	13.80	15.07	12.81
VANO 16	8.40	9.00	1232.18	525.09	1804.91	1126.34	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32	2601.48	379.70	746.64	4.00	8.98	5900.00	7.33	12.26	0.48	12.64	10.15	15.07	12.64	15.07	12.26
VANO 16	9.60	10.00	1130.68	499.51	1743.51	1041.16	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	661.46	4.00	7.96	5900.00	7.08	11.73	0.44	11.50	10.15	15.07	11.50	15.07	11.73
VANO 16	9.60	11.00	1130.68	499.51	1743.51	1041.16	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	661.46	4.00	7.96	5900.00	7.08	11.73	0.44	11.50	10.15	15.07	11.50	15.07	11.73
VANO 16	10.80	12.00	1030.10	474.16	1684.02	955.88	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79	2601.48	379.70	576.18	4.00	6.93	5900.00	6.84	11.21	0.40	10.35	10.15	15.07	10.35	15.07	11.21
VANO 16	12.00	13.00	930.46	449.04	1626.44	870.50	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54	2601.48	379.70	490.80	4.00	5.90	5900.00	6.60	10.71	0.36	9.21	10.15	15.07	10.15	15.07	10.71
VANO 16	13.20	14.00	831.83	424.14	1570.78	785.04	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30	2601.48	379.70	405.34	4.00	4.88	5900.00	6.38	10.23	0.33	8.06	10.15	15.07	10.15	15.07	10.23
VANO 16	14.40	15.00	734.22	399.46	1517.04	699.49	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08	2601.48	379.70	319.79	4.00	3.85	5900.00	6.16	9.77	0.29	6.93	10.15	15.07	10.15	15.07	9.77
VANO 16	14.40	16.00	717.28	399.46	1517.04	682.55	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87	2601.48	379.70	302.85	4.00	3.64	5900.00	6.16	9.77	0.29	6.72	10.15	15.07	10.15	15.07	9.77
VANO 16	15.60	17.00	620.74	375.01	1465.20	596.93	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66	2601.48	379.70	217.23	4.00	2.61	5900.00	5.95	9.32	0.25	5.59	10.15	15.07	10.15	15.07	9.32
VANO 16	16.80	18.00	525.30	350.79	1415.28	511.25	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46	2601.48	379.70	131.55	4.00	1.58	5900.00	5.74	8.89	0.22	4.45	10.15	15.07	10.15	15.07	8.89
VANO 16	18.00	19.00	430.99	326.79	1367.27	425.51	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28	2601.48	379.70	45.81	4.00	0.55	5900.00	5.55	8.47	0.19	3.33	10.15	15.07	10.15	15.07	8.47
VANO 16	19.20	20.00	489.77	177.07	1321.28	339.73	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.36	8.07	0.17	2.68	10.15	15.07	10.15	15.07	8.07
VANO 16	19.20	21.00	489.77	177.07	1321.28	339.73	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.36	8.07	0.17	2.68	10.15	15.07	10.15	15.07	8.07
VANO 16	20.40	22.00	567.43	166.70	1277.41	253.91	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60	2601.48	379.70	0.00	4.00	0.00	5900.00	5.19	7.69	0.14	2.59	10.15	15.07	10.15	15.07	7.69
VANO 16	21.60	23.00	646.40	156.32	1235.66	168.06	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53	2601.48	379.70	0.00	4.00	0.00	5900.00	5.02	7.33	0.12	2.51	10.15	15.07	10.15	15.07	7.33
VANO 16	22.80	24.00	726.69	145.95	1196.02	82.19	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47	2601.48	379.70	0.00	4.00	0.00	5900.00	4.85	6.99	0.11	2.43	10.15	15.07	10.15	15.07	6.99
VANO 16	24.00	25.00	399.83	135.57	1158.51	4.12	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.70	6.67	0.10	2.35	10.15	15.07	10.15	15.07	6.67
VANO 16	24.00	26.00	399.83	135.57	1158.51	4.12	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.70	6.67	0.10	2.35	10.15	15.07	10.15	15.07	6.67
VANO 16	25.20	27.00	711.62	187.04	1127.24	90.46	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.58	6.40	0.10	2.29	10.15	15.07	10.15	15.07	6.40
VANO 16	26.40	28.00	631.31	164.70	1110.79	177.22	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36	2601.48	379.70	0.00	4.00	0.00	5900.00	4.51	6.25	0.11	2.25	10.15	15.07	10.15	15.07	6.25
VANO 16	27.60	29.00	552.32	142.63	1112.91	261.29	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.52	6.27	0.13	2.26	10.15	15.07	10.15	15.07	6.27
VANO 16	28.80	30.00	474.65	120.83	1149.42	347.11	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.67	6.59	0.15	2.33	10.15	15.07	10.15	15.07	6.59
VANO 16	28.80	31.00	474.65	120.83	1149.42	347.11	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.67	6.59	0.15	2.33	10.15	15.07	10.15	15.07	6.59
VANO 16	30.00	32.00	441.60	111.38	1191.05	432.89	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97	2601.48	379.70	53.19	4.00	0.64	5900.00	4.83	6.95	0.17	3.06	10.15	15.07	10.15	15.07	6.95
VANO 16	31.20	33.00	535.90	124.89	1234.69	518.63	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13	2601.48	379.70	138.93	4.00	1.67	5900.00	5.01	7.33	0.20	4.18	10.15	15.07	10.15	15.07	7.33
VANO 16	32.40	34.00	631.32	143.44	1280.24	604.32	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32	2601.48	379.70	224.62	4.00	2.70	5900.00	5.20	7.72	0.23	5.30	10.15	15.07	10.15	15.07	7.72
VANO 16	33.60	35.00	727.84	163.77	1327.71	689.94	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	310.24	4.00	3.73	5900.00	5.39	8.13	0.26	6.43	10.15	15.07	10.15	15.07	8.13
VANO 16	33.60	36.00	727.84	163.77	1327.71	689.94	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	310.24	4.00	3.73	5900.00	5.39	8.13	0.26	6.43	10.15	15.07	10.15	15.07	8.13
VANO 16	34.80	37.00	825.43	184.39	1377.43	775.48	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74	2601.48	379.70	395.78	4.00	4.76	5900.00	5.59	8.56	0.30	7.56	10.15	15.07	10.15	15.07	8.56
VANO 16	36.00	38.00	924.05	205.23	1429.32	860.95	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96	2601.48	379.70	481.25	4.00	5.79	5900.00	5.80	9.01	0.33	8.69	10.15	15.07	10.15	15.07	9.01
VANO 16	37.20	39.00	1023.67	226.30	1483.12	946.33	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21	2601.48	379.70	566.63	4.00	6.82	5900.00	6.02	9.47	0.37	9.83	10.15	15.07	10.15	15.07	9.47
VANO 16	38.40	40.00	1124.25	247.59	1538.83	1031.62	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	651.92	4.00	7.84	5900.00	6.25	9.96	0.41	10.97	10.15	15.07	10.97	15.07	9.96
VANO 16	38.40	41.00	1124.25	247.59	1538.83	1031.62	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	651.92	4.00	7.84	5900.00	6.25	9.96	0.41	10.97	10.15	15.07	10.97	15.07	9.96
VANO 16	39.60	42.00	1225.73	269.50	1596.46	1116.80	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72	2601.48	379.70	737.10	4.00	8.87	5900.00	6.48	10.46	0.45	12.11	10.15	15.07	12.11	15.07	10.46
VANO 16	40.80	43.00	1328.09	292.13	1656.00	1201.88	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00	2601.48	379.70	822.18	4.00	9.89	5900.00	6.72	10.97	0.49	13.25	10.15	15.07	13.25	15.07	10.97
VANO 16	42.00	44.00	1431.26	314.99	1717.46	1286.85	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29	2601.48	379.70	907.15	4.00	10.91	5900.00	6.97	11.50	0.53	14.40	10.15	15.07	14.40	15.07	11.50
VANO 16	43.20	45.00	1535.21	338.08	1783.23	1371.70	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	992.00	4.00	11.93	5900.00	7.24	12.07	0.57	15.55	10.15	15.07	15.55	15.55	12.07
VANO 16	43.20	46.00	1535.21	338.08	1783.23	1371.70	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	992.00	4.00	11.93	5900.00	7.24	12.07	0.57	15.55	10.15	15.07	15.55	15.55	12.07
VANO 16	44.40	47.00	1639.87	361.39	1851.61	1456.43	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63	2601.48	379.70	1076.73	4.00	11.93	5900.00	7.52	12.66	0.62	15.69	10.15	15.07	15.69	15.69	12.66
VANO 16	45.60	48.00	1745.20	384.93	1921.91	1541.03	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68	2601.48	379.70	1161.33	4.00	11.93	5900.00	7.80	13.27	0.67	15.83	10.15	15.07	15.83	15.83	13.27
VANO 16	46.80	49.00	1851.13	408.69	1994.11	1625.51	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73	2601.48	379.70	1245.81	4.00	11.93	5900.00	8.09	13.90	0.72	15.98	10.15	15.07	15.98	15.98	13.90

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC COV	SEC S PILA
I	20 008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior

		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28 5	28 5	28.5
% TESADO	0 8	0 75	75%
% PERDIDA	0.16	0 2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS DE SECCIÓN

CARACTERISTICAS CORTANTE

Can eficaz =	3.875	cotg tetha =	1.46
Brazo mec =	3.4875	Vu1	2601.48167
fyd cercos =	40816.3	Vcu	379.7
fck (t/m2) =	4081.6	N º ramas =	4

CARACTERISTICAS TORSOR

fyd armad =	40816 3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC — **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** — **ARMADO DEFINITIVO**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vc con	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	Dos caras As (Tu2)	Arm long As (Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	Vu1	Vcu	Vsu	Ramas	Una rama As Cerc	Tu1	Dos caras As (Tu2)	Arm long As(Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	FLEXIÓN TRANS As ext	As int	As ext	As int	As long/m
[illegible]	[illegible]	[illegible]	2500.00	[illegible]	2734.92	[illegible]																									
VANO 17	0.00	1.00	2316.53	710.45	2280.43	1717.77	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08	2601.48	379.70	1338.07	4.00	12.03	5900.00	9.26	16.37	0.80	16.66	10.15	15.07	16.66	16.66	16.37
VANO 17	1.20	2.00	1801.53	683.29	2205.69	1633.44	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03	2601.48	379.70	1253.74	4.00	12.03	5900.00	8.95	15.73	0.75	16.51	10.15	15.07	16.51	16.51	15.73
VANO 17	2.40	3.00	1698.44	656.36	2132.85	1548.97	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97	2601.48	379.70	1169.27	4.00	12.03	5900.00	8.66	15.10	0.70	16.36	10.15	15.07	16.36	16.36	15.10
VANO 17	3.60	4.00	1605.64	629.66	2061.92	1464.37	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92	2601.48	379.70	1084.67	4.00	12.03	5900.00	8.37	14.48	0.66	16.21	10.15	15.07	16.21	16.21	14.48
VANO 17	4.80	5.00	1513.50	603.18	1992.90	1379.65	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	999.95	4.00	12.03	5900.00	8.09	13.89	0.61	16.07	10.15	15.07	16.07	16.07	13.89
VANO 17	4.80	6.00	1513.50	603.18	1992.90	1379.65	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	999.95	4.00	12.03	5900.00	8.09	13.89	0.61	16.07	10.15	15.07	16.07	16.07	13.89
VANO 17	6.00	7.00	1422.07	576.92	1925.79	1294.80	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71	2601.48	379.70	915.10	4.00	11.01	5900.00	7.82	13.30	0.56	14.92	10.15	15.07	14.92	15.07	13.30
VANO 17	7.20	8.00	1331.41	550.89	1860.59	1209.84	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57	2601.48	379.70	830.14	4.00	9.99	5900.00	7.55	12.74	0.52	13.76	10.15	15.07	13.76	15.07	12.74
VANO 17	8.40	9.00	1232.18	525.09	1797.30	1124.77	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32	2601.48	379.70	745.07	4.00	8.96	5900.00	7.30	12.19	0.48	12.61	10.15	15.07	12.61	15.07	12.19
VANO 17	9.60	10.00	1130.68	499.51	1735.91	1039.59	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	659.89	4.00	7.94	5900.00	7.05	11.66	0.44	11.46	10.15	15.07	11.46	15.07	11.66
VANO 17	9.60	11.00	1130.68	499.51	1735.91	1039.59	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	659.89	4.00	7.94	5900.00	7.05	11.66	0.44	11.46	10.15	15.07	11.46	15.07	11.66
VANO 17	10.80	12.00	1030.10	474.16	1676.44	954.31	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79	2601.48	379.70	574.61	4.00	6.91	5900.00	6.81	11.15	0.40	10.31	10.15	15.07	10.31	15.07	11.15
VANO 17	12.00	13.00	930.46	449.04	1618.87	868.93	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54	2601.48	379.70	489.23	4.00	5.89	5900.00	6.57	10.65	0.36	9.17	10.15	15.07	10.15	15.07	10.65
VANO 17	13.20	14.00	831.83	424.14	1563.22	783.47	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30	2601.48	379.70	403.77	4.00	4.86	5900.00	6.35	10.17	0.32	8.03	10.15	15.07	10.15	15.07	10.17
VANO 17	14.40	15.00	734.22	399.46	1509.47	697.93	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08	2601.48	379.70	318.23	4.00	3.83	5900.00	6.13	9.70	0.29	6.89	10.15	15.07	10.15	15.07	9.70
VANO 17	14.40	16.00	717.28	399.46	1509.47	680.99	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87	2601.48	379.70	301.29	4.00	3.62	5900.00	6.13	9.70	0.28	6.69	10.15	15.07	10.15	15.07	9.70
VANO 17	15.60	17.00	620.74	375.01	1457.63	595.37	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66	2601.48	379.70	215.67	4.00	2.59	5900.00	5.92	9.25	0.25	5.55	10.15	15.07	10.15	15.07	9.25
VANO 17	16.80	18.00	525.30	350.79	1407.70	509.69	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46	2601.48	379.70	129.99	4.00	1.56	5900.00	5.71	8.82	0.22	4.42	10.15	15.07	10.15	15.07	8.82
VANO 17	18.00	19.00	430.99	326.79	1359.68	423.96	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28	2601.48	379.70	44.26	4.00	0.53	5900.00	5.52	8.41	0.19	3.29	10.15	15.07	10.15	15.07	8.41
VANO 17	19.20	20.00	489.77	177.07	1313.67	338.18	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.33	8.01	0.17	2.67	10.15	15.07	10.15	15.07	8.01
VANO 17	19.20	21.00	489.77	177.07	1313.67	338.18	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.33	8.01	0.17	2.67	10.15	15.07	10.15	15.07	8.01
VANO 17	20.40	22.00	567.43	166.70	1269.77	252.36	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60	2601.48	379.70	0.00	4.00	0.00	5900.00	5.15	7.63	0.14	2.58	10.15	15.07	10.15	15.07	7.63
VANO 17	21.60	23.00	646.40	156.32	1227.99	166.51	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53	2601.48	379.70	0.00	4.00	0.00	5900.00	4.98	7.27	0.12	2.49	10.15	15.07	10.15	15.07	7.27
VANO 17	22.80	24.00	726.69	145.95	1188.32	80.65	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47	2601.48	379.70	0.00	4.00	0.00	5900.00	4.82	6.92	0.11	2.41	10.15	15.07	10.15	15.07	6.92
VANO 17	24.00	25.00	399.83	135.57	1150.79	5.23	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.67	6.60	0.09	2.34	10.15	15.07	10.15	15.07	6.60
VANO 17	24.00	26.00	399.83	135.57	1150.79	5.23	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.67	6.60	0.09	2.34	10.15	15.07	10.15	15.07	6.60
VANO 17	25.20	27.00	711.62	187.04	1123.33	92.00	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.56	6.36	0.10	2.28	10.15	15.07	10.15	15.07	6.36
VANO 17	26.40	28.00	631.31	164.70	1106.88	178.76	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36	2601.48	379.70	0.00	4.00	0.00	5900.00	4.49	6.22	0.11	2.25	10.15	15.07	10.15	15.07	6.22
VANO 17	27.60	29.00	552.32	142.63	1126.66	262.81	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.57	6.39	0.13	2.29	10.15	15.07	10.15	15.07	6.39
VANO 17	28.80	30.00	474.65	120.83	1159.72	348.63	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.71	6.68	0.15	2.35	10.15	15.07	10.15	15.07	6.68
VANO 17	28.80	31.00	474.65	120.83	1159.72	348.63	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.71	6.68	0.15	2.35	10.15	15.07	10.15	15.07	6.68
VANO 17	30.00	32.00	441.60	111.38	1199.69	434.41	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97	2601.48	379.70	54.71	4.00	0.66	5900.00	4.87	7.02	0.18	3.09	10.15	15.07	10.15	15.07	7.02
VANO 17	31.20	33.00	535.90	124.89	1243.30	520.14	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13	2601.48	379.70	140.44	4.00	1.69	5900.00	5.05	7.40	0.20	4.21	10.15	15.07	10.15	15.07	7.40
VANO 17	32.40	34.00	631.32	143.44	1288.82	605.82	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32	2601.48	379.70	226.12	4.00	2.72	5900.00	5.23	7.79	0.23	5.34	10.15	15.07	10.15	15.07	7.79
VANO 17	33.60	35.00	727.84	163.77	1336.73	691.44	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	311.74	4.00	3.75	5900.00	5.43	8.21	0.26	6.46	10.15	15.07	10.15	15.07	8.21
VANO 17	33.60	36.00	727.84	163.77	1336.73	691.44	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	311.74	4.00	3.75	5900.00	5.43	8.21	0.26	6.46	10.15	15.07	10.15	15.07	8.21
VANO 17	34.80	37.00	825.43	184.39	1386.66	776.98	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74	2601.48	379.70	397.28	4.00	4.78	5900.00	5.63	8.64	0.30	7.59	10.15	15.07	10.15	15.07	8.64
VANO 17	36.00	38.00	924.05	205.23	1438.50	862.45	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96	2601.48	379.70	482.75	4.00	5.81	5900.00	5.84	9.09	0.33	8.73	10.15	15.07	10.15	15.07	9.09
VANO 17	37.20	39.00	1023.67	226.30	1492.24	947.82	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21	2601.48	379.70	568.12	4.00	6.83	5900.00	6.06	9.55	0.37	9.86	10.15	15.07	10.15	15.07	9.55
VANO 17	38.40	40.00	1124.25	247.59	1547.90	1033.11	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	653.41	4.00	7.86	5900.00	6.28	10.04	0.41	11.00	10.15	15.07	11.00	15.07	10.04
VANO 17	38.40	41.00	1124.25	247.59	1547.90	1033.11	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	653.41	4.00	7.86	5900.00	6.28	10.04	0.41	11.00	10.15	15.07	11.00	15.07	10.04
VANO 17	39.60	42.00	1225.73	269.50	1607.06	1118.29	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72	2601.48	379.70	738.59	4.00	8.88	5900.00	6.52	10.55	0.45	12.15	10.15	15.07	12.15	15.07	10.55
VANO 17	40.80	43.00	1328.09	292.13	1669.68	1203.36	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00	2601.48	379.70	823.66	4.00	9.91	5900.00	6.78	11.09	0.49	13.30	10.15	15.07	13.30	15.07	11.09
VANO 17	42.00	44.00	1431.26	314.99	1734.20	1288.33	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29	2601.48	379.70	908.63	4.00	10.93	5900.00	7.04	11.65	0.53	14.45	10.15	15.07	14.45	15.07	11.65
VANO 17	43.20	45.00	1535.21	338.08	1800.64	1373.18	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	993.48	4.00	11.95	5900.00	7.31	12.22	0.58	15.61	10.15	15.07	15.61	15.61	12.22
VANO 17	43.20	46.00	1535.21	338.08	1800.64	1373.18	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	993.48	4.00	11.95	5900.00	7.31	12.22	0.58	15.61	10.15	15.07	15.61	15.61	12.22
VANO 17	44.40	47.00	1639.87	361.39	1868.98	1457.90	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63	2601.48	379.70	1078.20	4.00	11.95	5900.00	7.59	12.81	0.62	15.74	10.15	15.07	15.74	15.74	12.81
VANO 17	45.60	48.00	1745.20	384.93	1939.24	1542.50	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68	2601.48	379.70	1162.80	4.00	11.95	5900.00	7.87	13.42	0.67	15.89	10.15	15.07	15.89	15.89	13.42
VANO 17	46.80	49.00	1851.13	408.69	2011.40	1626.97	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73	2601.48	379.70	1247.27	4.00	11.95	5900.00	8.16	14.05	0.72	16.03	10.15	15.07	16.03	16.03	14.05
VANO 17	48.00	50.00	2366.13	432.68	2085.47	1711.31	2601.48	379.70	1986.43	4.00	13.90	5900.00	1.76	0.39	0.69	14.78	2601.48	379.70	1331.61	4.00	11.95	5900.00	8.47	14.69	0.77	16.18	10.15	15.07	16.18	16.18	14.69
VANO 18	0.00	1.00	2316.53	710.45	2247.68	1717.21	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08	2601.48	379.70	1337.51	4.00	12.02	5900.00	9.12	16.09	0.80	16.58	10.15	15.07	16.58	16.58	16.09
VANO 18	1.20	2.00	1801.53	683.29	2173.12	1632.87	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03	2601.48	379.70	1253.17	4.00	12.02	5900.00	8.82	15.44	0.75	16.43	10.15	15.07	16.43	16.43	15.44
VANO 18	2.40	3.00	1698.44	656.36	2100.46	1548.41	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97	2601.48	379.70	1168.71	4.00	12.02	5900.00	8.53	14.82	0.70	16.28	10.15	15.07	16.28	16.28	14.82
VANO 18	3.60	4.00	1605.64	629.66	2029.71	1463.81	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92	2601.48	379.70	1084.11	4.00	12.02	5900.00	8.24	14.20	0.65	16.14	10.15	15.07	16.14	16.14	14.20
VANO 18	4.80	5.00	1513.50	603.18	1960.85	1379.08	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	999.38	4.00	12.02	5900.00	7.96	13.61	0.60	16.00	10.15	15.07	16.00	16.00	13.61
VANO 18	4.80	6.00	1513.50	603.18	1960.85	1379.08	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86	2601.48	379.70	999.38	4.00	12.02	5900.00	7.96	13.61	0.60	16.00	10.15	15.07	16.00	16.00	13.61
VANO 18	6.00	7.00	1422.07	576.92	1893.90	1294.24	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71	2601.48	379.70	914.54	4.00	11.00	5900.00	7.69	13.03	0.56	14.85	10.15	15.07	14.85	15.07	13.03
VANO 18	7.20	8.00	1331.41	550.89	1828.86	1209.28	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57	2601.48	379.70	829.58	4.00	9.98	5900.00	7.42	12.47	0.51	13.69	10.15	15.07	13.69	15.07	12.47
VANO 18	8.40	9.00	1232.18	525.09	1765.71	1124.20	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32	2601.48	379.70	744.50	4.00	8.96	5900.00	7.17	11.92	0.47	12.54	10.15	15.07	12.54	15.07	11.92
VANO 18	9.60	10.00	1130.68	499.51	1704.47	1039.02	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	659.32	4.00	7.93	5900.00	6.92	11.39	0.43	11.39	10.15	15.07	11.39	15.07	11.39
VANO 18	9.60	11.00	1130.68	499.51	1704.47	1039.02	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05	2601.48	379.70	659.32	4.00	7.93	5900.00	6.92	11.39	0.43	11.39	10.15	15.07	11.39	15.07	11.39
VANO 18	10.80	12.00	1030.10	474.16	1645.13	953.74	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79	2601.48	379.70	574.04	4.00	6.91	5900.00	6.68	10.88	0.39	10.24	10.15	15.07	10.24	15.07	10.88
VANO 18	12.00	13.00	930.46	449.04	1587.70	868.37	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54	2601.48	379.70	488.67	4.00	5.88	5900.00	6.44	10.38	0.36	9.10	10.15	15.07	10.15	15.07	10.38
VANO 18	13.20	14.00	831.83	424.14	1532.17	782.91	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30	2601.48	379.70	403.21	4.00	4.85	5900.00	6.22	9.90	0.32	7.96	10.15	15.07	10.15	15.07	9.90
VANO 18	14.40	15.00	734.22	399.46	1478.54	697.37	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08	2601.48	379.70	317.67	4.00	3.82	5900.00	6.00	9.43	0.28	6.82	10.15	15.07	10.15	15.07	9.43
VANO 18	14.40	16.00	717.28	399.46	1478.54	680.42	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87	2601.48	379.70	300.72	4.00	3.62	5900.00	6.00	9.43	0.28	6.62	10.15	15.07	10.15	15.07	9.43
VANO 18	15.60	17.00	620.74	375.01	1426.81	594.81	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66	2601.48	379.70	215.11	4.00	2.59	5900.00	5.79	8.99	0.25	5.48	10.15	15.07	10.15	15.07	8.99
VANO 18	16.80	18.00	525.30	350.79	1376.98	509.13	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46	2601.48	379.70	129.43	4.00	1.56	5900.00	5.59	8.56	0.22	4.35	10.15	15.07	10.15	15.07	8.56
VANO 18	18.00	19.00	430.99	326.79	1329.06	423.40	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28	2601.48	379.70	43.70	4.00	0.53	5900.00	5.39	8.14	0.19	3.22	10.15	15.07	10.15	15.07	8.14
VANO 18	19.20	20.00	489.77	177.07	1283.15	337.62	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.21	7.74	0.16	2.60	10.15	15.07	10.15	15.07	7.74
VANO 18	19.20	21.00	489.77	177.07	1283.15	337.62	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68	2601.48	379.70	0.00	4.00	0.00	5900.00	5.21	7.74	0.16	2.60	10.15	15.07	10.15	15.07	7.74
VANO 18	20.40	22.00	567.43	166.70	1239.33	251.80	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60	2601.48	379.70	0.00	4.00	0.00	5900.00	5.03	7.37	0.14	2.52	10.15	15.07	10.15	15.07	7.37
VANO 18	21.60	23.00	646.40	156.32	1197.63	165.96	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53	2601.48	379.70	0.00	4.00	0.00	5900.00	4.86	7.00	0.12	2.43	10.15	15.07	10.15	15.07	7.00
VANO 18	22.80	24.00	726.69	145.95	1158.03	80.10	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47	2601.48	379.70	0.00	4.00	0.00	5900.00	4.70	6.66	0.10	2.35	10.15	15.07	10.15	15.07	6.66
VANO 18	24.00	25.00	399.83	135.57	1120.54	5.78	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.55	6.34	0.09	2.27	10.15	15.07	10.15	15.07	6.34
VANO 18	24.00	26.00	399.83	135.57	1120.54	5.78	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52	2601.48	379.70	0.00	4.00	0.00	5900.00	4.55	6.34	0.09	2.27	10.15	15.07	10.15	15.07	6.34
VANO 18	25.20	27.00	711.62	187.04	1096.81	92.56	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.45	6.13	0.10	2.23	10.15	15.07	10.15	15.07	6.13
VANO 18	26.40	28.00	631.31	164.70	1111.62	177.51	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36	2601.48	379.70	0.00	4.00	0.00	5900.00	4.51	6.26	0.11	2.26	10.15	15.07	10.15	15.07	6.26
VANO 18	27.60	29.00	552.32	142.63	1143.18	263.36	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37	2601.48	379.70	0.00	4.00	0.00	5900.00	4.64	6.53	0.13	2.32	10.15	15.07	10.15	15.07	6.53
VANO 18	28.80	30.00	474.65	120.83	1182.62	349.17	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.80	6.87	0.15	2.40	10.15	15.07	10.15	15.07	6.87
VANO 18	28.80	31.00	474.65	120.83	1182.62	349.17	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39	2601.48	379.70	0.00	4.00	0.00	5900.00	4.80	6.87	0.15	2.40	10.15	15.07	10.15	15.07	6.87
VANO 18	30.00	32.00	441.60	111.38	1224.62	434.95	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97	2601.48	379.70	55.25	4.00	0.66	5900.00	4.97	7.24	0.18	3.15	10.15	15.07	10.15	15.07	7.24
VANO 18	31.20	33.00	535.90	124.89	1268.84	520.69	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13	2601.48	379.70	140.99	4.00	1.70	5900.00	5.15	7.62	0.21	4.27	10.15	15.07	10.15	15.07	7.62
VANO 18	32.40	34.00	631.32	143.44	1314.96	606.36	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32	2601.48	379.70	226.66	4.00	2.73	5900.00	5.34	8.02	0.24	5.40	10.15	15.07	10.15	15.07	8.02
VANO 18	33.60	35.00	727.84	163.77	1365.87	691.98	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	312.28	4.00	3.76	5900.00	5.54	8.46	0.27	6.53	10.15	15.07	10.15	15.07	8.46
VANO 18	33.60	36.00	727.84	163.77	1365.87	691.98	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52	2601.48	379.70	312.28	4.00	3.76	5900.00	5.54	8.46	0.27	6.53	10.15	15.07	10.15	15.07	8.46
VANO 18	34.80	37.00	825.43	184.39	1418.94	777.52	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74	2601.48	379.70	397.82	4.00	4.79	5900.00	5.76	8.92	0.30	7.67	10.15	15.07	10.15	15.07	8.92
VANO 18	36.00	38.00	924.05	205.23	1473.91	862.98	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96	2601.48	379.70	483.28	4.00	5.81	5900.00	5.98	9.39	0.34	8.81	10.15	15.07	10.15	15.07	9.39
VANO 18	37.20	39.00	1023.67	226.30	1530.79	948.36	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21	2601.48	379.70	568.66	4.00	6.84	5900.00	6.21	9.89	0.38	9.95	10.15	15.07	10.15	15.07	9.89
VANO 18	38.40	40.00	1124.25	247.59	1589.56	1033.64	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	653.94	4.00	7.87	5900.00	6.45	10.40	0.41	11.09	10.15	15.07	11.09	15.07	10.40
VANO 18	38.40	41.00	1124.25	247.59	1589.56	1033.64	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46	2601.48	379.70	653.94	4.00	7.87	5900.00	6.45	10.40	0.41	11.09	10.15	15.07	11.09	15.07	10.40
VANO 18	39.60	42.00	1225.73	269.50	1650.24	1118.82	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72	2601.48	379.70	739.12	4.00	8.89	5900.00	6.70	10.92	0.45	12.24	10.15	15.07	12.24	15.07	10.92
VANO 18	40.80	43.00	1328.09	292.13	1712.83	1203.89	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00	2601.48	379.70	824.19	4.00	9.91	5900.00	6.95	11.46	0.50	13.39	10.15	15.07	13.39	15.07	11.46
VANO 18	42.00	44.00	1431.26	314.99	1777.31	1288.86	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29	2601.48	379.70	909.16	4.00	10.94	5900.00	7.21	12.02	0.54	14.54	10.15	15.07	14.54	15.07	12.02
VANO 18	43.20	45.00	1535.21	338.08	1843.70	1373.70	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	994.00	4.00	11.96	5900.00	7.48	12.59	0.58	15.70	10.15	15.07	15.70	15.70	12.59
VANO 18	43.20	46.00	1535.21	338.08	1843.70	1373.70	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59	2601.48	379.70	994.00	4.00	11.96	5900.00	7.48	12.59	0.58	15.70	10.15	15.07	15.70	15.70	12.59
VANO 18	44.40	47.00	1639.87	361.39	1911.99	1458.43	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63	2601.48	379.70	1078.73	4.00	11.96	5900.00	7.76	13.19	0.63	15.84	10.15	15.07	15.84	15.84	13.19
VANO 18	45.60	48.00	1745.20	384.93	1982.18	1543.03	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68	2601.48	379.70	1163.33	4.00	11.96	5900.00	8.05	13.79	0.68	15.98	10.15	15.07	15.98	15.98	13.79
VANO 18	46.80	49.00	1851.13	408.69	2054.28	1627.50	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73	2601.48	379.70	1247.80	4.00	11.96	5900.00	8.34	14.42	0.73	16.13	10.15	15.07	16.13	16.13	14.42

[redacted]

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS DE SECCIÓN

CARACTERISTICAS CORTANTE

Can eficaz =	3.875	cotg tetha =	1.46
Brazo mec =	3.4875	Vu1	2601.48167
fyd cercos =	40816.3	Vcu	379.7
fck (t/m2) =	4081.6	N º ramas =	4

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	Dos caras As (Tu2)	Arm long As (Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)
VANO 19	0.00	1.00	2316.53	710.45	2110.42	1719.54	2601.48	379.70	1936.83	4.00	13.64	5900.00	2.88	2.79	0.89	15.08
VANO 19	1.20	2.00	1801.53	683.29	2036.10	1635.21	2601.48	379.70	1421.83	4.00	13.64	5900.00	2.77	2.55	0.63	15.03
VANO 19	2.40	3.00	1698.44	656.36	1963.69	1550.74	2601.48	379.70	1318.74	4.00	13.64	5900.00	2.66	2.32	0.58	14.97
VANO 19	3.60	4.00	1605.64	629.66	1893.18	1466.14	2601.48	379.70	1225.94	4.00	13.64	5900.00	2.56	2.09	0.54	14.92
VANO 19	4.80	5.00	1513.50	603.18	1824.57	1381.42	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86
VANO 19	4.80	6.00	1513.50	603.18	1824.57	1381.42	2601.48	379.70	1133.80	4.00	13.64	5900.00	2.45	1.86	0.49	14.86
VANO 19	6.00	7.00	1422.07	576.92	1757.87	1296.57	2601.48	379.70	1042.37	4.00	12.54	5900.00	2.34	1.63	0.45	13.71
VANO 19	7.20	8.00	1331.41	550.89	1693.08	1211.61	2601.48	379.70	951.71	4.00	11.45	5900.00	2.24	1.41	0.41	12.57
VANO 19	8.40	9.00	1232.18	525.09	1630.18	1126.54	2601.48	379.70	852.48	4.00	10.25	5900.00	2.13	1.19	0.37	11.32
VANO 19	9.60	10.00	1130.68	499.51	1569.19	1041.36	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05
VANO 19	9.60	11.00	1130.68	499.51	1569.19	1041.36	2601.48	379.70	750.98	4.00	9.03	5900.00	2.03	0.96	0.33	10.05
VANO 19	10.80	12.00	1030.10	474.16	1510.11	956.08	2601.48	379.70	650.40	4.00	7.82	5900.00	1.92	0.74	0.29	8.79
VANO 19	12.00	13.00	930.46	449.04	1452.92	870.71	2601.48	379.70	550.76	4.00	6.63	5900.00	1.82	0.53	0.25	7.54
VANO 19	13.20	14.00	831.83	424.14	1397.64	785.24	2601.48	379.70	452.13	4.00	5.44	5900.00	1.72	0.31	0.21	6.30
VANO 19	14.40	15.00	734.22	399.46	1345.69	699.70	2601.48	379.70	354.52	4.00	4.26	5900.00	1.62	0.10	0.18	5.08
VANO 19	14.40	16.00	717.28	399.46	1345.69	682.76	2601.48	379.70	337.58	4.00	4.06	5900.00	1.62	0.10	0.18	4.87
VANO 19	15.60	17.00	620.74	375.01	1297.38	597.15	2601.48	379.70	241.04	4.00	2.90	5900.00	1.52	0.00	0.14	3.66
VANO 19	16.80	18.00	525.30	350.79	1250.96	511.47	2601.48	379.70	145.60	4.00	1.75	5900.00	1.42	0.00	0.12	2.46
VANO 19	18.00	19.00	430.99	326.79	1206.45	425.74	2601.48	379.70	51.29	4.00	0.62	5900.00	1.33	0.00	0.09	1.28
VANO 19	19.20	20.00	489.77	177.07	1164.64	339.96	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68
VANO 19	19.20	21.00	489.77	177.07	1164.64	339.96	2601.48	379.70	110.07	4.00	1.32	5900.00	0.72	0.00	0.10	1.68
VANO 19	20.40	22.00	567.43	166.70	1127.08	254.15	2601.48	379.70	187.73	4.00	2.26	5900.00	0.68	0.00	0.12	2.60
VANO 19	21.60	23.00	646.40	156.32	1096.10	168.30	2601.48	379.70	266.70	4.00	3.21	5900.00	0.63	0.00	0.14	3.53
VANO 19	22.80	24.00	726.69	145.95	1088.45	83.36	2601.48	379.70	346.99	4.00	4.17	5900.00	0.59	0.00	0.16	4.47
VANO 19	24.00	25.00	399.83	135.57	1115.73	3.98	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52
VANO 19	24.00	26.00	399.83	135.57	1115.73	3.98	2601.48	379.70	20.13	4.00	0.24	5900.00	0.55	0.00	0.07	0.52
VANO 19	25.20	27.00	711.62	187.04	1152.95	89.30	2601.48	379.70	331.92	4.00	3.99	5900.00	0.76	0.00	0.16	4.37
VANO 19	26.40	28.00	631.31	164.70	1192.27	175.16	2601.48	379.70	251.61	4.00	3.03	5900.00	0.67	0.00	0.14	3.36
VANO 19	27.60	29.00	552.32	142.63	1233.71	261.01	2601.48	379.70	172.62	4.00	2.08	5900.00	0.58	0.00	0.11	2.37
VANO 19	28.80	30.00	474.65	120.83	1277.25	346.82	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39
VANO 19	28.80	31.00	474.65	120.83	1277.25	346.82	2601.48	379.70	94.95	4.00	1.14	5900.00	0.49	0.00	0.09	1.39
VANO 19	30.00	32.00	441.60	111.38	1322.90	432.60	2601.48	379.70	61.90	4.00	0.74	5900.00	0.45	0.00	0.08	0.97
VANO 19	31.20	33.00	535.90	124.89	1370.55	518.33	2601.48	379.70	156.20	4.00	1.88	5900.00	0.51	0.00	0.11	2.13
VANO 19	32.40	34.00	631.32	143.44	1420.11	604.01	2601.48	379.70	251.62	4.00	3.03	5900.00	0.58	0.00	0.13	3.32
VANO 19	33.60	35.00	727.84	163.77	1471.57	689.62	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52
VANO 19	33.60	36.00	727.84	163.77	1471.57	689.62	2601.48	379.70	348.14	4.00	4.19	5900.00	0.66	0.00	0.16	4.52
VANO 19	34.80	37.00	825.43	184.39	1524.94	775.16	2601.48	379.70	445.73	4.00	5.36	5900.00	0.75	0.00	0.20	5.74
VANO 19	36.00	38.00	924.05	205.23	1580.21	860.62	2601.48	379.70	544.35	4.00	6.55	5900.00	0.83	0.00	0.23	6.96
VANO 19	37.20	39.00	1023.67	226.30	1637.38	945.99	2601.48	379.70	643.97	4.00	7.75	5900.00	0.92	0.00	0.27	8.21
VANO 19	38.40	40.00	1124.25	247.59	1696.46	1031.27	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46
VANO 19	38.40	41.00	1124.25	247.59	1696.46	1031.27	2601.48	379.70	744.55	4.00	8.96	5900.00	1.01	0.00	0.31	9.46
VANO 19	39.60	42.00	1225.73	269.50	1757.44	1116.45	2601.48	379.70	846.03	4.00	10.18	5900.00	1.09	0.00	0.35	10.72
VANO 19	40.80	43.00	1328.09	292.13	1820.33	1201.52	2601.48	379.70	948.39	4.00	11.41	5900.00	1.19	0.00	0.39	12.00
VANO 19	42.00	44.00	1431.26	314.99	1885.12	1286.49	2601.48	379.70	1051.56	4.00	12.65	5900.00	1.28	0.00	0.44	13.29
VANO 19	43.20	45.00	1535.21	338.08	1951.81	1371.33	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59
VANO 19	43.20	46.00	1535.21	338.08	1951.81	1371.33	2601.48	379.70	1155.51	4.00	13.90	5900.00	1.37	0.00	0.48	14.59
VANO 19	44.40	47.00	1639.87	361.39	2020.41	1456.05	2601.48	379.70	1260.17	4.00	13.90	5900.00	1.47	0.00	0.53	14.63
VANO 19	45.60	48.00	1745.20	384.93	2090.91	1540.65	2601.48	379.70	1365.50	4.00	13.90	5900.00	1.56	0.00	0.58	14.68
VANO 19	46.80	49.00	1851.13	408.69	2163.31	1625.12	2601.48	379.70	1471.43	4.00	13.90	5900.00	1.66	0.18	0.63	14.73
VANO 19	48.00	50.00	2366.13	432.08	2237.62	1719.45	2601.48	379.70	1986.43	4.00	13.90	5900.00	1.76	0.39	0.89	14.78
VANO 20	0.00	1.00	2308.18	418.89	1968.64	1715.72	2601.48	379.70	1928.48	4.00	13.21	5900.00	1.70	0.27	0.86	14.06
VANO 20	1.20	2.00	1793.23	393.69	1896.11	1631.38	2601.48	379.70	1413.53	4.00	13.21	5900.00	1.60	0.05	0.60	14.00
VANO 20	2.40	3.00	1687.35	369.93	1826.73	1546.90	2601.48	379.70	1307.65	4.00	13.21	5900.00	1.50	0.00	0.55	13.96
VANO 20	3.60	4.00	1582.08	346.40	1759.25	1462.30	2601.48	379.70	1202.38	4.00	13.21	5900.00	1.41	0.00	0.50	13.91
VANO 20	4.80	5.00	1477.47	323.10	1693.69	1377.57	2601.48	379.70	1097.77	4.00	13.21	5900.00	1.31	0.00	0.46	13.86
VANO 20	4.80	6.00	1477.47	323.10	1693.69	1377.57	2601.48	379.70	1097.77	4.00	13.21	5900.00	1.31	0.00	0.46	13.86
VANO 20	6.00	7.00	1373.58	300.01	1630.05	1292.72	2601.48	379.70	993.88	4.00	11.96	5900.00	1.22	0.00	0.41	12.56
VANO 20	7.20	8.00	1269.49	277.15	1568.31	1207.76	2601.48	379.70	889.79	4.00	10.70	5900.00	1.13	0.00	0.37	11.27
VANO 20	8.40	9.00	1167.19	254.54	1508.50	1122.68	2601.48	379.70	787.49	4.00	9.47	5900.00	1.03	0.00	0.32	9.99
VANO 20	9.60	10.00	1065.76	232.20	1450.66	1037.50	2601.48	379.70	686.06	4.00	8.25	5900.00	0.94	0.00	0.28	8.72
VANO 20	9.60	11.00	1065.76	232.20	1450.66	1037.50	2601.48	379.70	686.06	4.00	8.25	5900.00	0.94	0.00	0.28	8.72
VANO 20	10.80	12.00	965.23	210.50	1395.15	952.21	2601.48	379.70	585.53	4.00	7.04	5900.00	0.85	0.00	0.25	7.47
VANO 20	12.00	13.00	865.66	189.50	1342.02	866.84	2601.48	379.70	485.96	4.00	5.85	5900.00	0.77	0.00	0.21	6.23
VANO 20	13.20	14.00	767.09	168.72	1290.81	781.37	2601.48	379.70	387.39	4.00	4.66	5900.00	0.68	0.00	0.18	5.00
VANO 20	14.40	15.00	669.55	149.06	1242.40	695.83	2601.48	379.70	289.85	4.00	3.49	5900.00	0.61	0.00	0.15	3.79
VANO 20	14.40	16.00	652.61	149.06	1242.40	678.88	2601.48	379.70	272.91	4.00	3.28	5900.00	0.61	0.00	0.14	3.59
VANO 20	15.60	17.00	556.13	135.09	1201.36	593.27	2601.48	379.70	176.43	4.00	2.12	5900.00	0.55	0.00	0.11	2.40
VANO 20	16.80	18.00	460.75	121.34	1162.24	507.59	2601.48	379.70	81.05	4.00	0.97	5900.00	0.49	0.00	0.09	1.22
VANO 20	18.00	19.00	366.50	107.81	1125.02	421.85	2601.48	379.70	0.00	4.00	0.00	5900.00	0.44	0.00	0.06	0.22
VANO 20	19.20	20.00	415.94	111.37	1089.83	336.07	2601.48	379.70	36.24	4.00	0.44	5900.00	0.45	0.00	0.07	0.66
VANO 20	19.20	21.00	415.94	111.37	1089.83	336.07	2601.48	379.70	36.24	4.00	0.44	5900.00	0.45	0.00	0.07	0.66
VANO 20	20.40	22.00	496.78	133.21	1090.04	252.92	2601.48	379.70	117.08	4.00	1.41	5900.00	0.54	0.00	0.10	1.68
VANO 20	21.60	23.00	578.93	155.32	1104.07	166.18	2601.48	379.70	199.23	4.00	2.40	5900.00	0.63	0.00	0.12	2.71
VANO 20	22.80	24.00	662.40	177.71	1129.43	79.41	2601.48	379.70	282.70	4.00	3.40	5900.00	0.72	0.00	0.14	3.76
VANO 20	24.00	25.00	338.74	200.37	1164.56	7.33	2601.48	379.70	0.00	4.00	0.00	5900.00	0.81	0.00	0.06	0.41
VANO 20	24.00	26.00	338.74	200.37	1164.56	7.33	2601.48	379.70	0.00	4.00	0.00	5900.00	0.81	0.00	0.06	0.41
VANO 20	25.20	27.00	646.53	135.02	1201.80	93.20	2601.48	379.70	266.83	4.00	3.21	5900.00	0.55	0.00	0.14	3.48
VANO 20	26.40	28.00	563.13	145.47	1241.15	179.06	2601.48	379.70	183.43	4.00	2.21	5900.00	0.59	0.00	0.11	2.50
VANO 20	27.60	29.00	481.05	155.92	1282.62	264.90	2601.48	379.70	101.35	4.00	1.22	5900.00	0.63	0.00	0.09	1.54
VANO 20	28.80	30.00	400.28	170.28	1326.21	350.72	2601.48	379.70	20.58	4.00	0.25	5900.00	0.69	0.00	0.07	0.59
VANO 20	28.80	31.00	400.28	170.28	1326.21	350.72	2601.48	379.70	20.58	4.00	0.25	5900.00	0.69	0.00	0.07	0.59
VANO 20	30.00	32.00	382.92	317.64	1371.92	436.50	2601.48	379.70	3.22	4.00	0.04	5900.00	1.29	0.00	0.08	0.68
VANO 20	31.20	33.00	477.23	341.66	1419.63	522.23	2601.48	379.70	97.53	4.00	1.17	5900.00	1.39	0.00	0.10	1.87
VANO 20	32.40	34.00	572.66	365.91	1469.26	607.90	2601.48	379.70	192.96	4.00	2.32	5900.00	1.49	0.00	0.13	3.06
VANO 20	33.60	35.00	669.20	390.38	1520.80	693.51	2601.48	379.70	289.50	4.00	3.48	5900.00	1.58	0.02	0.16	4.27
VANO 20	33.60	36.00	669.20	390.38	1520.80	693.51	2601.48	379.70	289.50	4.00	3.48	5900.00	1.58	0.02	0.16	4.27
VANO 20	34.80	37.00	766.79	415.08	1574.25	779.05	2601.48	379.70	387.09	4.00	4.66	5900.00	1.68	0.23	0.19	5.50
VANO 20	36.00	38.00	865.42	439.99	1629.61	864.51	2601.48	379.70	485.72	4.00	5.84	5900.00	1.79	0.45	0.23	6.74
VANO 20	37.20	39.00	965.04	465.14	1686.89	949.88	2601.48	379.70	585.34	4.00	7.04	5900.00	1.89	0.67	0.26	7.99
VANO 20	38.40	40.00	1065.61	490.50	1746.07	1035.15	2601.48	379.70	685.91	4.00	8.25	5900.00	1.99	0.89	0.30	9.25
VANO 20	38.40	41.00	1065.61	490.50	1746.07	1035.15	2601.48	379.70	685.91	4.00	8.25	5900.00	1.99	0.89	0.30	9.25
VANO 20	39.60	42.00	1167.09	516.10	1807.17	1120.33	2601.48	379.70	787.39	4.00	9.47	5900.00	2.09	1.11	0.34	10.52
VANO 20	40.80	43.00	1269.43	541.91	1870.17	1205.40	2601.48	379.70	889.73	4.00	10.70	5900.00	2.20	1.33	0.39	11.80
VANO 20	42.00	44.00	1372.60	567.95	1935.09	1290.35	2601.48	379.70	992.90	4.00	11.94	5900.00	2.31	1.56	0.43	13.10
VANO 20	43.20	45.00	1476.52	594.21	2001.92	1375.19	2601.48	379.70	1096.82	4.00	13.19	5900.00	2.41	1.78	0.48	14.40
VANO 20	43.20	46.00	1476.52	594.21	2001.92	1375.19	2601.48	379.70	1096.82	4.00	13.19	5900.00	2.41	1.78	0.48	14.40
VANO 20	44.40	47.00	1581.17	620.70	2070.66	1459.91	2601.48	379.70	1201.47	4.00	13.19	5900.00	2.52	2.01	0.53	14.45
VANO 20	45.60	48.00	1686.47	647.41	2141.31	1544.50	2601.48	379.70	1306.77	4.00	13.19	5900.00	2.63	2.24	0.58	14.51
VANO 20	46.80	49.00	1792.38	674.34	2213.87	1620.96	2601.48	379.70	1412.68	4.00	13.19	5900.00	2.74	2.48	0.63	14.56

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC — ARMADO DEFINITIVO

	Nudo	Vu1	Vcu	Vsu	Ramas	Una rama As Cerc	Tu1	Dos caras As (Tu2)	Arm long As(Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	FLEXIÓN TRANS As ext	As int	ARMADO DEFINITIVO As ext	As int	As long/m
VANO 19	1.00	2601.48	379.70	1339.84	4.00	12.05	5900.00	8.57	14.90	0.78	16.33	10.15	15.07	16.33	16.33	14.90
VANO 19	2.00	2601.48	379.70	1255.51	4.00	12.05	5900.00	8.26	14.26	0.73	16.18	10.15	15.07	16.18	16.18	14.26
VANO 19	3.00	2601.48	379.70	1171.04	4.00	12.05	5900.00	7.97	13.63	0.68	16.04	10.15	15.07	16.04	16.04	13.63
VANO 19	4.00	2601.48	379.70	1086.44	4.00	12.05	5900.00	7.68	13.02	0.63	15.89	10.15	15.07	15.89	15.89	13.02
VANO 19	5.00	2601.48	379.70	1001.72	4.00	12.05	5900.00	7.41	12.43	0.58	15.75	10.15	15.07	15.75	15.75	12.43
VANO 19	6.00	2601.48	379.70	1001.72	4.00	12.05	5900.00	7.41	12.43	0.58	15.75	10.15	15.07	15.75	15.75	12.43
VANO 19	7.00	2601.48	379.70	916.87	4.00	11.03	5900.00	7.14	11.85	0.54	14.60	10.15	15.07	14.60	15.07	11.85
VANO 19	8.00	2601.48	379.70	831.91	4.00	10.01	5900.00	6.87	11.29	0.50	13.44	10.15	15.07	13.44	15.07	11.29
VANO 19	9.00	2601.48	379.70	746.84	4.00	8.98	5900.00	6.62	10.75	0.45	12.29	10.15	15.07	12.29	15.07	10.75
VANO 19	10.00	2601.48	379.70	661.66	4.00	7.96	5900.00	6.37	10.22	0.41	11.14	10.15	15.07	11.14	15.07	10.22
VANO 19	11.00	2601.48	379.70	661.66	4.00	7.96	5900.00	6.37	10.22	0.41	11.14	10.15	15.07	11.14	15.07	10.22
VANO 19	12.00	2601.48	379.70	576.38	4.00	6.93	5900.00	6.13	9.71	0.38	10.00	10.15	15.07	10.15	15.07	9.71
VANO 19	13.00	2601.48	379.70	491.01	4.00	5.91	5900.00	5.90	9.21	0.34	8.86	10.15	15.07	10.15	15.07	9.21
VANO 19	14.00	2601.48	379.70	405.54	4.00	4.88	5900.00	5.67	8.74	0.30	7.72	10.15	15.07	10.15	15.07	8.74
VANO 19	15.00	2601.48	379.70	320.00	4.00	3.85	5900.00	5.46	8.29	0.27	6.58	10.15	15.07	10.15	15.07	8.29
VANO 19	16.00	2601.48	379.70	303.06	4.00	3.65	5900.00	5.46	8.29	0.26	6.38	10.15	15.07	10.15	15.07	8.29
VANO 19	17.00	2601.48	379.70	217.45	4.00	2.62	5900.00	5.27	7.87	0.23	5.25	10.15	15.07	10.15	15.07	7.87
VANO 19	18.00	2601.48	379.70	131.77	4.00	1.59	5900.00	5.08	7.47	0.20	4.12	10.15	15.07	10.15	15.07	7.47
VANO 19	19.00	2601.48	379.70	46.04	4.00	0.55	5900.00	4.90	7.08	0.17	3.00	10.15	15.07	10.15	15.07	7.08
VANO 19	20.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.73	6.72	0.15	2.36	10.15	15.07	10.15	15.07	6.72
VANO 19	21.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.73	6.72	0.15	2.36	10.15	15.07	10.15	15.07	6.72
VANO 19	22.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.58	6.39	0.13	2.29	10.15	15.07	10.15	15.07	6.39
VANO 19	23.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.45	6.13	0.11	2.22	10.15	15.07	10.15	15.07	6.13
VANO 19	24.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.42	6.06	0.09	2.21	10.15	15.07	10.15	15.07	6.06
VANO 19	25.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.53	6.30	0.09	2.26	10.15	15.07	10.15	15.07	6.30
VANO 19	26.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.53	6.30	0.09	2.26	10.15	15.07	10.15	15.07	6.30
VANO 19	27.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.68	6.62	0.10	2.34	10.15	15.07	10.15	15.07	6.62
VANO 19	28.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.84	6.96	0.12	2.42	10.15	15.07	10.15	15.07	6.96
VANO 19	29.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.01	7.32	0.14	2.50	10.15	15.07	10.15	15.07	7.32
VANO 19	30.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.18	7.69	0.16	2.59	10.15	15.07	10.15	15.07	7.69
VANO 19	31.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.18	7.69	0.16	2.59	10.15	15.07	10.15	15.07	7.69
VANO 19	32.00	2601.48	379.70	52.90	4.00	0.64	5900.00	5.37	8.09	0.19	3.32	10.15	15.07	10.15	15.07	8.09
VANO 19	33.00	2601.48	379.70	138.63	4.00	1.67	5900.00	5.56	8.50	0.22	4.45	10.15	15.07	10.15	15.07	8.50
VANO 19	34.00	2601.48	379.70	224.31	4.00	2.70	5900.00	5.76	8.93	0.25	5.58	10.15	15.07	10.15	15.07	8.93
VANO 19	35.00	2601.48	379.70	309.92	4.00	3.73	5900.00	5.97	9.37	0.28	6.71	10.15	15.07	10.15	15.07	9.37
VANO 19	36.00	2601.48	379.70	309.92	4.00	3.73	5900.00	5.97	9.37	0.28	6.71	10.15	15.07	10.15	15.07	9.37
VANO 19	37.00	2601.48	379.70	395.46	4.00	4.76	5900.00	6.19	9.84	0.32	7.85	10.15	15.07	10.15	15.07	9.84
VANO 19	38.00	2601.48	379.70	480.92	4.00	5.79	5900.00	6.41	10.31	0.35	8.99	10.15	15.07	10.15	15.07	10.31
VANO 19	39.00	2601.48	379.70	566.29	4.00	6.81	5900.00	6.65	10.81	0.39	10.14	10.15	15.07	10.15	15.07	10.81
VANO 19	40.00	2601.48	379.70	651.57	4.00	7.84	5900.00	6.89	11.32	0.43	11.28	10.15	15.07	11.28	15.07	11.32
VANO 19	41.00	2601.48	379.70	651.57	4.00	7.84	5900.00	6.89	11.32	0.43	11.28	10.15	15.07	11.28	15.07	11.32
VANO 19	42.00	2601.48	379.70	736.75	4.00	8.86	5900.00	7.13	11.85	0.47	12.43	10.15	15.07	12.43	15.07	11.85
VANO 19	43.00	2601.48	379.70	821.82	4.00	9.89	5900.00	7.39	12.39	0.51	13.58	10.15	15.07	13.58	15.07	12.39
VANO 19	44.00	2601.48	379.70	906.79	4.00	10.91	5900.00	7.65	12.95	0.55	14.73	10.15	15.07	14.73	15.07	12.95
VANO 19	45.00	2601.48	379.70	991.63	4.00	11.93	5900.00	7.92	13.53	0.60	15.89	10.15	15.07	15.89	15.89	13.53
VANO 19	46.00	2601.48	379.70	991.63	4.00	11.93	5900.00	7.92	13.53	0.60	15.89	10.15	15.07	15.89	15.89	13.53
VANO 19	47.00	2601.48	379.70	1076.35	4.00	11.93	5900.00	8.20	14.12	0.65	16.03	10.15	15.07	16.03	16.03	14.12
VANO 19	48.00	2601.48	379.70	1160.95	4.00	11.93	5900.00	8.49	14.73	0.69	16.17	10.15	15.07	16.17	16.17	14.73
VANO 19	49.00	2601.48	379.70	1245.42	4.00	11.93	5900.00	8.78	15.36	0.74	16.32	10.15	15.07	16.32	16.32	15.36
VANO 19	50.00	2601.48	379.70	1329.75	4.00	11.93	5900.00	9.06	16.00	0.79	16.47	10.15	15.07	16.47	16.47	16.00
VANO 20	1.00	2601.48	379.70	1336.02	4.00	12.00	5900.00	7.99	13.68	0.75	16.00	10.15	15.07	16.00	16.00	13.68
VANO 20	2.00	2601.48	379.70	1251.68	4.00	12.00	5900.00	7.70	13.05	0.70	15.85	10.15	15.07	15.85	15.85	13.05
VANO 20	3.00	2601.48	379.70	1167.20	4.00	12.00	5900.00	7.42	12.45	0.66	15.71	10.15	15.07	15.71	15.71	12.45
VANO 20	4.00	2601.48	379.70	1082.60	4.00	12.00	5900.00	7.14	11.86	0.61	15.57	10.15	15.07	15.57	15.57	11.86
VANO 20	5.00	2601.48	379.70	997.87	4.00	12.00	5900.00	6.88	11.30	0.56	15.44	10.15	15.07	15.44	15.44	11.30
VANO 20	6.00	2601.48	379.70	997.87	4.00	12.00	5900.00	6.88	11.30	0.56	15.44	10.15	15.07	15.44	15.44	11.30
VANO 20	7.00	2601.48	379.70	913.02	4.00	10.98	5900.00	6.62	10.75	0.52	14.29	10.15	15.07	14.29	15.07	10.75
VANO 20	8.00	2601.48	379.70	828.06	4.00	9.96	5900.00	6.37	10.21	0.48	13.14	10.15	15.07	13.14	15.07	10.21
VANO 20	9.00	2601.48	379.70	742.98	4.00	8.94	5900.00	6.12	9.69	0.44	12.00	10.15	15.07	12.00	15.07	9.69
VANO 20	10.00	2601.48	379.70	657.80	4.00	7.91	5900.00	5.89	9.19	0.40	10.86	10.15	15.07	10.86	15.07	9.19
VANO 20	11.00	2601.48	379.70	657.80	4.00	7.91	5900.00	5.89	9.19	0.40	10.86	10.15	15.07	10.86	15.07	9.19
VANO 20	12.00	2601.48	379.70	572.51	4.00	6.89	5900.00	5.66	8.71	0.36	9.72	10.15	15.07	10.15	15.07	8.71
VANO 20	13.00	2601.48	379.70	487.14	4.00	5.86	5900.00	5.45	8.25	0.32	8.58	10.15	15.07	10.15	15.07	8.25
VANO 20	14.00	2601.48	379.70	401.67	4.00	4.83	5900.00	5.24	7.81	0.29	7.45	10.15	15.07	10.15	15.07	7.81
VANO 20	15.00	2601.48	379.70	316.13	4.00	3.80	5900.00	5.04	7.39	0.25	6.32	10.15	15.07	10.15	15.07	7.39
VANO 20	16.00	2601.48	379.70	299.18	4.00	3.60	5900.00	5.04	7.39	0.25	6.12	10.15	15.07	10.15	15.07	7.39
VANO 20	17.00	2601.48	379.70	213.57	4.00	2.57	5900.00	4.88	7.04	0.22	5.01	10.15	15.07	10.15	15.07	7.04
VANO 20	18.00	2601.48	379.70	127.89	4.00	1.54	5900.00	4.72	6.70	0.19	3.90	10.15	15.07	10.15	15.07	6.70
VANO 20	19.00	2601.48	379.70	42.15	4.00	0.51	5900.00	4.57	6.38	0.16	2.79	10.15	15.07	10.15	15.07	6.38
VANO 20	20.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.42	6.07	0.14	2.21	10.15	15.07	10.15	15.07	6.07
VANO 20	21.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.42	6.07	0.14	2.21	10.15	15.07	10.15	15.07	6.07
VANO 20	22.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.42	6.07	0.12	2.21	10.15	15.07	10.15	15.07	6.07
VANO 20	23.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.48	6.19	0.11	2.24	10.15	15.07	10.15	15.07	6.19
VANO 20	24.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.58	6.41	0.10	2.29	10.15	15.07	10.15	15.07	6.41
VANO 20	25.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.73	6.72	0.10	2.36	10.15	15.07	10.15	15.07	6.72
VANO 20	26.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.73	6.72	0.10	2.36	10.15	15.07	10.15	15.07	6.72
VANO 20	27.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.88	7.04	0.11	2.44	10.15	15.07	10.15	15.07	7.04
VANO 20	28.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.04	7.38	0.13	2.52	10.15	15.07	10.15	15.07	7.38
VANO 20	29.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.21	7.74	0.15	2.60	10.15	15.07	10.15	15.07	7.74
VANO 20	30.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.38	8.12	0.17	2.69	10.15	15.07	10.15	15.07	8.12
VANO 20	31.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.38	8.12	0.17	2.69	10.15	15.07	10.15	15.07	8.12
VANO 20	32.00	2601.48	379.70	56.80	4.00	0.68	5900.00	5.57	8.51	0.20	3.47	10.15	15.07	10.15	15.07	8.51
VANO 20	33.00	2601.48	379.70	142.53	4.00	1.71	5900.00	5.76	8.93	0.23	4.60	10.15	15.07	10.15	15.07	8.93
VANO 20	34.00	2601.48	379.70	228.20	4.00	2.75	5900.00	5.96	9.35	0.26	5.73	10.15	15.07	10.15	15.07	9.35
VANO 20	35.00	2601.48	379.70	313.81	4.00	3.77	5900.00	6.17	9.80	0.29	6.86	10.15	15.07	10.15	15.07	9.80
VANO 20	36.00	2601.48	379.70	313.81	4.00	3.77	5900.00	6.17	9.80	0.29	6.86	10.15	15.07	10.15	15.07	9.80
VANO 20	37.00	2601.48	379.70	399.35	4.00	4.80	5900.00	6.39	10.26	0.32	[illegible]	10.15	15.07	10.15	15.07	10.26
VANO 20	38.00	2601.48	379.70	484.81	4.00	5.83	5900.00	6.61	10.74	0.36	9.14	10.15	15.07	10.15	15.07	10.74
VANO 20	39.00	2601.48	379.70	570.18	4.00	6.86	5900.00	6.85	11.24	0.40	10.28	10.15	15.07	10.28	15.07	11.24
VANO 20	40.00	2601.48	379.70	655.45	4.00	7.88	5900.00	7.09	11.75	0.44	11.43	10.15	15.07	11.43	15.07	11.75
VANO 20	41.00	2601.48	379.70	655.45	4.00	7.88	5900.00	7.09	11.75	0.44	11.43	10.15	15.07	11.43	15.07	11.75
VANO 20	42.00	2601.48	379.70	740.63	4.00	8.91	5900.00	7.34	12.28	0.48	12.58	10.15	15.07	12.58	15.07	12.28
VANO 20	43.00	2601.48	379.70	825.70	4.00	9.93	5900.00	7.59	12.82	0.52	13.73	10.15	15.07	13.73	15.07	12.82
VANO 20	44.00	2601.48	379.70	910.65	4.00	10.95	5900.00	7.85	13.39	0.56	14.88	10.15	15.07	14.88	15.07	13.39
VANO 20	45.00	2601.48	379.70	995.49	4.00	11.98	5900.00	8.13	13.96	0.61	16.04	10.15	15.07	16.04	16.04	13.96
VANO 20	46.00	2601.48	379.70	995.49	4.00	11.98	5900.00	8.13	13.96	0.61	16.04	10.15	15.07	16.04	16.04	13.96
VANO 20	47.00	2601.48	379.70	1080.21	4.00	11.98	5900.00	8.41	14.56	0.65	16.18	10.15	15.07	16.18	16.18	14.56
VANO 20	48.00	2601.48	379.70	1164.80	4.00	11.98	5900.00	8.69	15.17	0.70	16.32	10.15	15.07	16.32	16.32	15.17
VANO 20	49.00	2601.48	379.70	1249.26	4.00	11.98	5900.00	8.99	15.80	0.75	16.47	10.15	15.07	16.47	16.47	15.80

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC S PILA
I	20 008	24 9687
ys	1 495	1.754
yi	2 505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS DE SECCIÓN

CARACTERISTICAS CORTANTE			
Can eficaz =	3.875	cotg tetha =	1.46
Brazo mec =	3.4875	Vu1	2601.48167
fyd cercos =	40816.3	Vcu	379.7
fck (t/m2) =	4081.6	N º ramas =	4

CARACTERISTICAS TORSOR			
fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

Hipótesis max cortante / Hipótesis max torsor — ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Vu1	Vcu	Vsu	Ramas	As Cerc	Tu1	Dos caras As (Tu2)	Arm long As (Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)
VANO 21	0.00	1.00	2295.31	303.03	1698.01	1721.99	2601.48	379.70	1915.61	4.00	13.05	5900.00	1.23	0.00	0.85	13.66
VANO 21	1.20	2.00	1780.31	286.39	1634.34	1637.62	2601.48	379.70	1400.61	4.00	13.05	5900.00	1.16	0.00	0.59	13.63
VANO 21	2.40	3.00	1674.38	269.99	1572.62	1553.13	2601.48	379.70	1294.68	4.00	13.05	5900.00	1.10	0.00	0.54	13.60
VANO 21	3.60	4.00	1569.07	253.81	1512.87	1468.50	2601.48	379.70	1189.37	4.00	13.05	5900.00	1.03	0.00	0.49	13.56
VANO 21	4.80	5.00	1464.42	237.86	1455.07	1383.75	2601.48	379.70	1084.72	4.00	13.05	5900.00	0.97	0.00	0.45	13.53
VANO 21	4.80	6.00	1464.42	237.86	1455.07	1383.75	2601.48	379.70	1084.72	4.00	13.05	5900.00	0.97	0.00	0.45	13.53
VANO 21	6.00	7.00	1360.51	222.14	1399.24	1298.88	2601.48	379.70	980.81	4.00	11.80	5900.00	0.90	0.00	0.40	12.25
VANO 21	7.20	8.00	1257.38	206.65	1345.36	1213.90	2601.48	379.70	877.68	4.00	10.56	5900.00	0.84	0.00	0.36	10.98
VANO 21	8.40	9.00	1155.08	196.47	1293.44	1128.80	2601.48	379.70	775.38	4.00	9.33	5900.00	0.80	0.00	0.32	9.73
VANO 21	9.60	10.00	1053.66	206.80	1243.48	1043.59	2601.48	379.70	673.96	4.00	8.11	5900.00	0.84	0.00	0.28	8.53
VANO 21	9.60	11.00	1053.66	206.80	1243.48	1043.59	2601.48	379.70	673.96	4.00	8.11	5900.00	0.84	0.00	0.28	8.53
VANO 21	10.80	12.00	953.16	217.13	1195.48	958.29	2601.48	379.70	573.46	4.00	6.90	5900.00	0.88	0.00	0.24	7.34
VANO 21	12.00	13.00	853.63	227.45	1162.21	852.42	2601.48	379.70	473.93	4.00	5.70	5900.00	0.92	0.00	0.21	6.16
VANO 21	13.20	14.00	755.10	237.78	1162.23	795.61	2601.48	379.70	375.40	4.00	4.52	5900.00	0.97	0.00	0.18	5.00
VANO 21	14.40	15.00	657.62	248.11	1164.98	709.15	2601.48	379.70	277.92	4.00	3.34	5900.00	1.01	0.00	0.15	3.85
VANO 21	14.40	16.00	640.68	248.11	1164.98	692.21	2601.48	379.70	260.98	4.00	3.14	5900.00	1.01	0.00	0.14	3.64
VANO 21	15.60	17.00	544.28	258.43	1169.74	605.67	2601.48	379.70	164.58	4.00	1.98	5900.00	1.05	0.00	0.12	2.50
VANO 21	16.80	18.00	448.99	268.76	1176.50	519.08	2601.48	379.70	69.29	4.00	0.83	5900.00	1.09	0.00	0.09	1.38
VANO 21	18.00	19.00	354.85	279.09	1188.15	432.44	2601.48	379.70	0.00	4.00	0.00	5900.00	1.13	0.00	0.07	0.57
VANO 21	19.20	20.00	390.69	368.44	1206.84	345.75	2601.48	379.70	10.99	4.00	0.13	5900.00	1.50	0.00	0.08	0.88
VANO 21	19.20	21.00	390.69	368.44	1206.84	345.75	2601.48	379.70	10.99	4.00	0.13	5900.00	1.50	0.00	0.08	0.88
VANO 21	20.40	22.00	468.48	375.14	1236.59	259.02	2601.48	379.70	88.78	4.00	1.07	5900.00	1.52	0.00	0.10	1.83
VANO 21	21.60	23.00	550.77	397.31	1268.51	172.27	2601.48	379.70	171.07	4.00	2.06	5900.00	1.61	0.08	0.13	2.86
VANO 21	22.80	24.00	634.38	419.76	1302.59	85.51	2601.48	379.70	254.68	4.00	3.06	5900.00	1.70	0.27	0.15	3.92
VANO 21	24.00	25.00	311.70	330.72	1338.84	3.64	2601.48	379.70	0.00	4.00	0.00	5900.00	1.34	0.00	0.06	0.67
VANO 21	24.00	26.00	311.70	330.72	1338.84	3.64	2601.48	379.70	0.00	4.00	0.00	5900.00	1.34	0.00	0.06	0.67
VANO 21	25.20	27.00	635.47	341.05	1377.24	87.22	2601.48	379.70	255.77	4.00	3.08	5900.00	1.38	0.00	0.15	3.77
VANO 21	26.40	28.00	552.24	361.32	1417.80	173.08	2601.48	379.70	172.54	4.00	2.08	5900.00	1.47	0.00	0.12	2.81
VANO 21	27.60	29.00	470.33	383.04	1460.53	258.91	2601.48	379.70	90.63	4.00	1.09	5900.00	1.55	0.00	0.10	1.87
VANO 21	28.80	30.00	390.28	372.03	1505.42	344.70	2601.48	379.70	10.58	4.00	0.13	5900.00	1.51	0.00	0.08	0.88
VANO 21	28.80	31.00	390.28	372.03	1505.42	344.70	2601.48	379.70	10.58	4.00	0.13	5900.00	1.51	0.00	0.08	0.88
VANO 21	30.00	32.00	355.65	560.21	1552.46	430.46	2601.48	379.70	0.00	4.00	0.00	5900.00	2.27	1.49	0.09	1.14
VANO 21	31.20	33.00	450.15	584.33	1601.57	516.16	2601.48	379.70	70.45	4.00	0.85	5900.00	2.37	1.70	0.11	2.03
VANO 21	32.40	34.00	545.77	608.68	1652.62	601.80	2601.48	379.70	166.07	4.00	2.00	5900.00	2.47	1.91	0.14	3.23
VANO 21	33.60	35.00	642.48	633.26	1705.63	687.38	2601.48	379.70	262.78	4.00	3.16	5900.00	2.57	2.12	0.17	4.45
VANO 21	33.60	36.00	642.48	633.26	1705.63	687.38	2601.48	379.70	262.78	4.00	3.16	5900.00	2.57	2.12	0.17	4.45
VANO 21	34.80	37.00	740.26	658.07	1760.59	772.87	2601.48	379.70	360.56	4.00	4.34	5900.00	2.67	2.34	0.20	5.67
VANO 21	36.00	38.00	839.06	683.11	1817.51	858.28	2601.48	379.70	459.36	4.00	5.53	5900.00	2.77	2.55	0.24	6.91
VANO 21	37.20	39.00	938.84	708.38	1876.37	943.60	2601.48	379.70	559.14	4.00	6.73	5900.00	2.88	2.77	0.28	8.16
VANO 21	38.40	40.00	1039.57	733.88	1937.19	1028.81	2601.48	379.70	659.87	4.00	7.94	5900.00	2.98	2.99	0.32	9.43
VANO 21	38.40	41.00	1039.57	733.88	1937.19	1028.81	2601.48	379.70	659.87	4.00	7.94	5900.00	2.98	2.99	0.32	9.43
VANO 21	39.60	42.00	1141.20	759.61	1999.96	1113.92	2601.48	379.70	761.50	4.00	9.16	5900.00	3.08	3.21	0.36	10.70
VANO 21	40.80	43.00	1243.68	785.57	2064.68	1198.92	2601.48	379.70	863.98	4.00	10.39	5900.00	3.19	3.44	0.40	11.99
VANO 21	42.00	44.00	1346.97	811.75	2131.36	1283.80	2601.48	379.70	967.27	4.00	11.64	5900.00	3.30	3.67	0.44	13.28
VANO 21	43.20	45.00	1451.01	838.17	2199.98	1368.55	2601.48	379.70	1071.31	4.00	12.89	5900.00	3.40	3.89	0.49	14.59
VANO 21	43.20	46.00	1451.01	838.17	2199.98	1368.55	2601.48	379.70	1071.31	4.00	12.89	5900.00	3.40	3.89	0.49	14.59
VANO 21	44.40	47.00	1555.74	864.82	2270.56	1453.17	2601.48	379.70	1176.04	4.00	12.89	5900.00	3.51	4.12	0.54	14.64
VANO 21	45.60	48.00	1661.12	891.69	2343.09	1537.67	2601.48	379.70	1281.42	4.00	12.89	5900.00	3.62	4.36	0.59	14.70
VANO 21	46.80	49.00	1767.08	918.80	2417.58	1622.02	2601.48	379.70	1387.38	4.00	12.89	5900.00	3.73	4.59	0.64	14.75
[illegible]																
VANO 22	0.00	1.00	2209.25	452.93	1436.54	1777.55	2601.48	379.70	1829.55	4.00	13.66	5900.00	1.84	0.56	0.81	14.58
VANO 22	0.98	2.00	1775.04	461.26	1424.01	1708.04	2601.48	379.70	1395.34	4.00	13.66	5900.00	1.87	0.63	0.60	14.60
VANO 22	1.95	3.00	1688.21	469.59	1413.15	1638.41	2601.48	379.70	1308.51	4.00	13.66	5900.00	1.91	0.70	0.56	14.62
VANO 22	2.93	4.00	1601.72	477.91	1403.95	1568.67	2601.48	379.70	1222.02	4.00	13.66	5900.00	1.94	0.78	0.52	14.63
VANO 22	3.90	5.00	1515.59	486.24	1396.44	1498.82	2601.48	379.70	1135.89	4.00	13.66	5900.00	1.97	0.85	0.49	14.65
VANO 22	3.90	6.00	1515.59	486.24	1396.44	1498.82	2601.48	379.70	1135.89	4.00	13.66	5900.00	1.97	0.85	0.49	14.65
VANO 22	4.88	7.00	1429.87	494.57	1392.92	1428.85	2601.48	379.70	1050.17	4.00	12.63	5900.00	2.01	0.92	0.45	13.64
VANO 22	5.85	8.00	1344.58	502.90	1391.06	1358.76	2601.48	379.70	964.88	4.00	11.61	5900.00	2.04	0.99	0.41	12.63
VANO 22	6.83	9.00	1259.74	511.23	1390.86	1288.59	2601.48	379.70	880.04	4.00	10.59	5900.00	2.08	1.07	0.38	11.62
VANO 22	7.80	10.00	1175.38	519.55	1392.33	1218.29	2601.48	379.70	795.68	4.00	9.57	5900.00	2.11	1.14	0.35	10.63
VANO 22	7.80	11.00	1175.38	519.55	1392.33	1218.29	2601.48	379.70	795.68	4.00	9.57	5900.00	2.11	1.14	0.35	10.63
VANO 22	8.78	12.00	1091.54	527.88	1405.78	1147.89	2601.48	379.70	711.84	4.00	8.56	5900.00	2.14	1.21	0.32	9.63
VANO 22	9.75	13.00	1008.29	536.21	1421.79	1077.40	2601.48	379.70	628.59	4.00	7.56	5900.00	2.18	1.28	0.29	8.65
VANO 22	10.73	14.00	925.80	544.54	1439.61	1006.92	2601.48	379.70	546.10	4.00	6.57	5900.00	2.21	1.35	0.26	7.67
VANO 22	11.70	15.00	844.11	552.87	1459.23	936.43	2601.48	379.70	464.41	4.00	5.59	5900.00	2.24	1.43	0.23	6.71
VANO 22	11.70	16.00	844.11	552.87	1459.23	936.43	2601.48	379.70	464.41	4.00	5.59	5900.00	2.24	1.43	0.23	6.71
VANO 22	12.68	17.00	763.24	561.19	1480.65	865.94	2601.48	379.70	383.54	4.00	4.61	5900.00	2.28	1.50	0.20	5.75
VANO 22	13.65	18.00	683.20	574.55	1503.89	795.46	2601.48	379.70	303.50	4.00	3.65	5900.00	2.33	1.61	0.18	4.82
VANO 22	14.63	19.00	604.03	593.27	1528.92	724.97	2601.48	379.70	224.33	4.00	2.70	5900.00	2.41	1.78	0.16	3.90
VANO 22	15.60	20.00	525.73	611.77	1555.77	654.50	2601.48	379.70	146.03	4.00	1.76	5900.00	2.48	1.94	0.14	3.00
VANO 22	15.60	21.00	525.73	611.77	1555.77	654.50	2601.48	379.70	146.03	4.00	1.76	5900.00	2.48	1.94	0.14	3.00
VANO 22	16.58	22.00	448.34	630.03	1584.42	584.03	2601.48	379.70	68.64	4.00	0.83	5900.00	2.56	2.09	0.12	2.10
VANO 22	17.55	23.00	371.88	648.06	1614.88	513.57	2601.48	379.70	0.00	4.00	0.00	5900.00	2.63	2.25	0.10	1.32
VANO 22	18.53	24.00	296.35	665.86	1647.15	443.12	2601.48	379.70	0.00	4.00	0.00	5900.00	2.70	2.40	0.09	1.35
VANO 22	19.50	25.00	323.80	746.69	1681.22	372.69	2601.48	379.70	0.00	4.00	0.00	5900.00	3.03	3.10	0.10	1.52
VANO 22	19.50	26.00	323.80	746.69	1681.22	372.69	2601.48	379.70	0.00	4.00	0.00	5900.00	3.03	3.10	0.10	1.52
VANO 22	20.48	27.00	386.36	744.04	1717.09	302.27	2601.48	379.70	6.66	4.00	0.08	5900.00	3.02	3.08	0.11	1.59
VANO 22	21.45	28.00	451.29	750.66	1754.78	231.87	2601.48	379.70	71.59	4.00	0.86	5900.00	3.05	3.14	0.13	2.38
VANO 22	22.43	29.00	351.06	734.72	1794.27	161.49	2601.48	379.70	0.00	4.00	0.00	5900.00	2.98	3.00	0.10	1.49
VANO 22	23.40	30.00	703.55	751.35	1835.57	91.13	2601.48	379.70	323.85	4.00	3.90	5900.00	3.05	3.14	0.20	5.42
VANO 22	23.40	31.00	686.61	751.35	1835.57	74.19	2601.48	379.70	306.91	4.00	3.69	5900.00	3.05	3.14	0.20	5.22
VANO 22	24.38	32.00	617.19	767.75	1878.67	14.17	2601.48	379.70	237.49	4.00	2.86	5900.00	3.12	3.28	0.18	4.42
VANO 22	25.35	33.00	550.16	783.92	1923.58	65.66	2601.48	379.70	170.46	4.00	2.05	5900.00	3.18	3.42	0.16	3.64
VANO 22	26.33	34.00	486.82	705.22	1970.30	135.20	2601.48	379.70	107.12	4.00	1.29	5900.00	2.86	2.74	0.14	2.72
VANO 22	27.30	35.00	425.53	717.40	2018.82	204.71	2601.48	379.70	45.83	4.00	0.55	5900.00	2.91	2.85	0.12	2.01
VANO 22	27.30	36.00	425.53	717.40	2018.82	204.71	2601.48	379.70	45.83	4.00	0.55	5900.00	2.91	2.85	0.12	2.01
VANO 22	28.28	37.00	364.89	729.38	2069.15	274.19	2601.48	379.70	0.00	4.00	0.00	5900.00	2.96	2.95	0.11	1.48
VANO 22	29.25	38.00	304.91	741.17	2121.29	343.63	2601.48	379.70	0.00	4.00	0.00	5900.00	3.01	3.05	0.10	1.50
VANO 22	30.23	39.00	350.29	1002.05	2175.22	413.02	2601.48	379.70	0.00	4.00	0.00	5900.00	4.07	5.31	0.13	2.03
VANO 22	31.20	40.00	429.93	1023.59	2230.85	482.37	2601.48	379.70	50.23	4.00	0.60	5900.00	4.15	5.50	0.15	2.68
VANO 22	31.20	41.00	429.93	1023.59	2230.85	482.37	2601.48	379.70	50.23	4.00	0.60	5900.00	4.15	5.50	0.15	2.68
VANO 22	32.18	42.00	510.60	1045.32	2288.11	551.68	2601.48	379.70	130.90	4.00	1.57	5900.00	4.24	5.69	0.18	3.70
VANO 22	33.15	43.00	592.29	1067.25	2347.00	620.93	2601.48	379.70	212.59	4.00	2.56	5900.00	4.33	5.88	0.20	4.72
VANO 22	34.13	44.00	675.00	1089.36	2407.53	690.13	2601.48	379.70	295.30	4.00	3.55	5900.00	4.42	6.07	0.23	5.76
VANO 22	35.10	45.00	758.73	1111.67	2469.70	759.28	2601.48	379.70	379.03	4.00	4.56	5900.00	4.51	6.26	0.26	6.82
VANO 22	35.10	46.00	962.91	1111.67	2469.70	983.47	2601.48	379.70	603.21	4.00	7.26	5900.00	4.51	6.26	0.33	9.51
VANO 22	36.08	47.00	1067.66	1134.16	2533.50	1052.55	2601.48	379.70	687.96	4.00	7.26	5900.00	4.60	6.46	0.37	9.56
VANO 22	37.05	48.00	1153.43	1156.85	2598.94	1121.58	2601.48	379.70	773.72	4.00	7.26	5900.00	4.70	6.65	0.40	9.60
VANO 22	38.03	49.00	1240.19	1179.72	2666.13	1190.57	2601.48	379.70	860.49	4.00	7.26	5900.00	4.79	6.85	0.44	9.65

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC — ARMADO DEFINITIVO

	X	Nudo	Vu1	Vcu	Vsu	Ramas	Una rama As Cerc	Tu1	Dos caras As (Tu2)	Arm long As(Tu3)/m	Comprob (V+T)<1	Una rama As(Td+Vd)	FLEXIÓN TRANS As ext	FLEXIÓN TRANS As int	ARMADO DEFINITIVO As ext	As int	As long/m
VANO 21	0.00	1.00	2601.48	379.70	1342.29	4.00	12.08	5900.00	6.89	11.33	0.72	15.52	10.15	15.07	15.52	15.52	11.33
VANO 21	1.20	2.00	2601.48	379.70	1257.92	4.00	12.08	5900.00	6.63	10.78	0.67	15.40	10.15	15.07	15.40	15.40	10.78
VANO 21	2.40	3.00	2601.48	379.70	1173.43	4.00	12.08	5900.00	6.38	10.25	0.62	15.27	10.15	15.07	15.27	15.27	10.25
VANO 21	3.60	4.00	2601.48	379.70	1088.80	4.00	12.08	5900.00	6.14	9.73	0.58	15.15	10.15	15.07	15.15	15.15	9.73
VANO 21	4.80	5.00	2601.48	379.70	1004.05	4.00	12.08	5900.00	5.91	9.23	0.53	15.03	10.15	15.07	15.03	15.07	9.23
VANO 21	4.80	6.00	2601.48	379.70	1004.05	4.00	12.08	5900.00	5.91	9.23	0.53	15.03	10.15	15.07	15.03	15.07	9.23
VANO 21	6.00	7.00	2601.48	379.70	919.18	4.00	11.06	5900.00	5.68	8.75	0.49	13.90	10.15	15.07	13.90	15.07	8.75
VANO 21	7.20	8.00	2601.48	379.70	834.20	4.00	10.03	5900.00	5.46	8.28	0.45	12.77	10.15	15.07	12.77	15.07	8.28
VANO 21	8.40	9.00	2601.48	379.70	749.10	4.00	9.01	5900.00	5.25	7.83	0.41	11.64	10.15	15.07	11.64	15.07	7.83
VANO 21	9.60	10.00	2601.48	379.70	663.89	4.00	7.99	5900.00	5.05	7.40	0.37	10.51	10.15	15.07	10.51	15.07	7.40
VANO 21	9.60	11.00	2601.48	379.70	663.89	4.00	7.99	5900.00	5.05	7.40	0.37	10.51	10.15	15.07	10.51	15.07	7.40
VANO 21	10.80	12.00	2601.48	379.70	578.59	4.00	6.96	5900.00	4.85	6.99	0.34	9.39	10.15	15.07	10.15	15.07	6.99
VANO 21	12.00	13.00	2601.48	379.70	472.72	4.00	5.69	5900.00	4.72	6.70	0.30	8.05	10.15	15.07	10.15	15.07	6.70
VANO 21	13.20	14.00	2601.48	379.70	415.91	4.00	5.00	5900.00	4.72	6.70	0.28	7.36	10.15	15.07	10.15	15.07	6.70
VANO 21	14.40	15.00	2601.48	379.70	329.45	4.00	3.96	5900.00	4.73	6.72	0.25	6.33	10.15	15.07	10.15	15.07	6.72
VANO 21	14.40	16.00	2601.48	379.70	312.51	4.00	3.76	5900.00	4.73	6.72	0.24	6.12	10.15	15.07	10.15	15.07	6.72
VANO 21	15.60	17.00	2601.48	379.70	225.97	4.00	2.72	5900.00	4.75	6.76	0.22	5.09	10.15	15.07	10.15	15.07	6.76
VANO 21	16.80	18.00	2601.48	379.70	139.38	4.00	1.68	5900.00	4.78	6.82	0.19	4.06	10.15	15.07	10.15	15.07	6.82
VANO 21	18.00	19.00	2601.48	379.70	52.74	4.00	0.63	5900.00	4.82	6.92	0.17	3.05	10.15	15.07	10.15	15.07	6.92
VANO 21	19.20	20.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.90	7.08	0.16	2.45	10.15	15.07	10.15	15.07	7.08
VANO 21	19.20	21.00	2601.48	379.70	0.00	4.00	0.00	5900.00	4.90	7.08	0.16	2.45	10.15	15.07	10.15	15.07	7.08
VANO 21	20.40	22.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.02	7.34	0.14	2.51	10.15	15.07	10.15	15.07	7.34
VANO 21	21.60	23.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.15	7.62	0.13	2.57	10.15	15.07	10.15	15.07	7.62
VANO 21	22.80	24.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.29	7.91	0.12	2.64	10.15	15.07	10.15	15.07	7.91
VANO 21	24.00	25.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.43	8.23	0.12	2.72	10.15	15.07	10.15	15.07	8.23
VANO 21	24.00	26.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.43	8.23	0.12	2.72	10.15	15.07	10.15	15.07	8.23
VANO 21	25.20	27.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.59	8.56	0.13	2.80	10.15	15.07	10.15	15.07	8.56
VANO 21	26.40	28.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.76	8.91	0.15	2.88	10.15	15.07	10.15	15.07	8.91
VANO 21	27.60	29.00	2601.48	379.70	0.00	4.00	0.00	5900.00	5.93	9.28	0.17	2.96	10.15	15.07	10.15	15.07	9.28
VANO 21	28.80	30.00	2601.48	379.70	0.00	4.00	0.00	5900.00	6.11	9.67	0.19	3.06	10.15	15.07	10.15	15.07	9.67
VANO 21	28.80	31.00	2601.48	379.70	0.00	4.00	0.00	5900.00	6.11	9.67	0.19	3.06	10.15	15.07	10.15	15.07	9.67
VANO 21	30.00	32.00	2601.48	379.70	50.76	4.00	0.61	5900.00	6.30	10.07	0.22	3.76	10.15	15.07	10.15	15.07	10.07
VANO 21	31.20	33.00	2601.48	379.70	136.46	4.00	1.64	5900.00	6.50	10.50	0.25	4.89	10.15	15.07	10.15	15.07	10.50
VANO 21	32.40	34.00	2601.48	379.70	222.10	4.00	2.67	5900.00	6.71	10.94	0.28	6.03	10.15	15.07	10.15	15.07	10.94
VANO 21	33.60	35.00	2601.48	379.70	307.68	4.00	3.70	5900.00	6.92	11.40	0.31	7.16	10.15	15.07	10.15	15.07	11.40
VANO 21	33.60	36.00	2601.48	379.70	307.68	4.00	3.70	5900.00	6.92	11.40	0.31	7.16	10.15	15.07	10.15	15.07	11.40
VANO 21	34.80	37.00	2601.48	379.70	393.17	4.00	4.73	5900.00	7.15	11.88	0.35	8.30	10.15	15.07	10.15	15.07	11.88
VANO 21	36.00	38.00	2601.48	379.70	478.58	4.00	5.76	5900.00	7.38	12.37	0.38	9.45	10.15	15.07	10.15	15.07	12.37
VANO 21	37.20	39.00	2601.48	379.70	563.90	4.00	6.78	5900.00	7.62	12.88	0.42	10.59	10.15	15.07	10.59	15.07	12.88
VANO 21	38.40	40.00	2601.48	379.70	649.11	4.00	7.81	5900.00	7.86	13.40	0.46	11.74	10.15	15.07	11.74	15.07	13.40
VANO 21	38.40	41.00	2601.48	379.70	649.11	4.00	7.81	5900.00	7.86	13.40	0.46	11.74	10.15	15.07	11.74	15.07	13.40
VANO 21	39.60	42.00	2601.48	379.70	734.22	4.00	8.83	5900.00	8.12	13.95	0.50	12.89	10.15	15.07	12.89	15.07	13.95
VANO 21	40.80	43.00	2601.48	379.70	819.22	4.00	9.85	5900.00	8.38	14.51	0.55	14.05	10.15	15.07	14.05	15.07	14.51
VANO 21	42.00	44.00	2601.48	379.70	904.10	4.00	10.88	5900.00	8.65	15.08	0.59	15.20	10.15	15.07	15.20	15.20	15.08
VANO 21	43.20	45.00	2601.48	379.70	988.85	4.00	11.90	5900.00	8.93	15.68	0.64	16.36	10.15	15.07	16.36	16.36	15.68
VANO 21	43.20	46.00	2601.48	379.70	988.85	4.00	11.90	5900.00	8.93	15.68	0.64	16.36	10.15	15.07	16.36	16.36	15.68
VANO 21	44.40	47.00	2601.48	379.70	1073.47	4.00	11.90	5900.00	9.22	16.29	0.68	16.50	10.15	15.07	16.50	16.50	16.29
VANO 21	45.60	48.00	2601.48	379.70	1157.97	4.00	11.90	5900.00	9.51	16.92	0.73	16.65	10.15	15.07	16.65	16.65	16.92
VANO 21	46.80	49.00	2601.48	379.70	1242.32	4.00	11.90	5900.00	9.81	17.56	0.78	16.80	10.15	15.07	16.80	16.80	17.56
[illegible]																	
VANO 22	0.00	1.00	2601.48	379.70	1397.85	4.00	13.46	5900.00	5.83	9.07	0.71	16.38	10.15	15.07	16.38	16.38	9.07
VANO 22	0.98	2.00	2601.48	379.70	1328.34	4.00	13.46	5900.00	5.78	8.96	0.67	16.35	10.15	15.07	16.35	16.35	8.96
VANO 22	1.95	3.00	2601.48	379.70	1258.71	4.00	13.46	5900.00	5.74	8.87	0.64	16.33	10.15	15.07	16.33	16.33	8.87
VANO 22	2.93	4.00	2601.48	379.70	1188.97	4.00	13.46	5900.00	5.70	8.79	0.61	16.31	10.15	15.07	16.31	16.31	8.79
VANO 22	3.90	5.00	2601.48	379.70	1119.12	4.00	13.46	5900.00	5.67	8.72	0.58	16.30	10.15	15.07	16.30	16.30	8.72
VANO 22	3.90	6.00	2601.48	379.70	1119.12	4.00	13.46	5900.00	5.67	8.72	0.58	16.30	10.15	15.07	16.30	16.30	8.72
VANO 22	4.88	7.00	2601.48	379.70	1049.15	4.00	12.62	5900.00	5.65	8.69	0.55	15.45	10.15	15.07	15.45	15.45	8.69
VANO 22	5.85	8.00	2601.48	379.70	979.08	4.00	11.78	5900.00	5.65	8.68	0.52	14.60	10.15	15.07	14.60	15.07	8.68
VANO 22	6.83	9.00	2601.48	379.70	908.89	4.00	10.93	5900.00	5.65	8.68	0.49	13.76	10.15	15.07	13.76	15.07	8.68
VANO 22	7.80	10.00	2601.48	379.70	838.59	4.00	10.09	5900.00	5.65	8.69	0.46	12.91	10.15	15.07	12.91	15.07	8.69
VANO 22	7.80	11.00	2601.48	379.70	838.59	4.00	10.09	5900.00	5.65	8.69	0.46	12.91	10.15	15.07	12.91	15.07	8.69
VANO 22	8.78	12.00	2601.48	379.70	768.19	4.00	9.24	5900.00	5.71	8.81	0.43	12.09	10.15	15.07	12.09	15.07	8.81
VANO 22	9.75	13.00	2601.48	379.70	697.70	4.00	8.39	5900.00	5.77	8.94	0.41	11.28	10.15	15.07	11.28	15.07	8.94
VANO 22	10.73	14.00	2601.48	379.70	627.22	4.00	7.54	5900.00	5.84	9.10	0.38	10.47	10.15	15.07	10.47	15.07	9.10
VANO 22	11.70	15.00	2601.48	379.70	556.73	4.00	6.70	5900.00	5.92	9.27	0.36	9.66	10.15	15.07	10.15	15.07	9.27
VANO 22	11.70	16.00	2601.48	379.70	556.73	4.00	6.70	5900.00	5.92	9.27	0.36	9.66	10.15	15.07	10.15	15.07	9.27
VANO 22	12.68	17.00	2601.48	379.70	486.24	4.00	5.85	5900.00	6.01	9.45	0.34	8.85	10.15	15.07	10.15	15.07	9.45
VANO 22	13.65	18.00	2601.48	379.70	415.76	4.00	5.00	5900.00	6.10	9.65	0.32	8.05	10.15	15.07	10.15	15.07	9.65
VANO 22	14.63	19.00	2601.48	379.70	345.27	4.00	4.15	5900.00	6.21	9.87	0.30	7.26	10.15	15.07	10.15	15.07	9.87
VANO 22	15.60	20.00	2601.48	379.70	274.80	4.00	3.31	5900.00	6.32	10.10	0.28	6.46	10.15	15.07	10.15	15.07	10.10
VANO 22	15.60	21.00	2601.48	379.70	274.80	4.00	3.31	5900.00	6.32	10.10	0.28	6.46	10.15	15.07	10.15	15.07	10.10
VANO 22	16.58	22.00	2601.48	379.70	204.33	4.00	2.46	5900.00	6.43	10.35	0.27	5.67	10.15	15.07	10.15	15.07	10.35
VANO 22	17.55	23.00	2601.48	379.70	133.87	4.00	1.61	5900.00	6.56	10.61	0.25	4.89	10.15	15.07	10.15	15.07	10.61
VANO 22	18.53	24.00	2601.48	379.70	63.42	4.00	0.76	5900.00	6.69	10.89	0.24	4.11	10.15	15.07	10.15	15.07	10.89
VANO 22	19.50	25.00	2601.48	379.70	0.00	4.00	0.00	5900.00	6.82	11.19	0.22	3.41	10.15	15.07	10.15	15.07	11.19
VANO 22	19.50	26.00	2601.48	379.70	0.00	4.00	0.00	5900.00	6.82	11.19	0.22	3.41	10.15	15.07	10.15	15.07	11.19
VANO 22	20.48	27.00	2601.48	379.70	0.00	4.00	0.00	5900.00	6.97	11.50	0.21	3.49	10.15	15.07	10.15	15.07	11.50
VANO 22	21.45	28.00	2601.48	379.70	0.00	4.00	0.00	5900.00	7.12	11.83	0.20	3.56	10.15	15.07	10.15	15.07	11.83
VANO 22	22.43	29.00	2601.48	379.70	0.00	4.00	0.00	5900.00	7.28	12.17	0.20	3.64	10.15	15.07	10.15	15.07	12.17
VANO 22	23.40	30.00	2601.48	379.70	0.00	4.00	0.00	5900.00	7.45	12.52	0.19	3.73	10.15	15.07	10.15	15.07	12.52
VANO 22	23.40	31.00	2601.48	379.70	0.00	4.00	0.00	5900.00	7.45	12.52	0.19	3.73	10.15	15.07	10.15	15.07	12.52
VANO 22	24.38	32.00	2601.48	379.70	0.00	4.00	0.00	5900.00	7.63	12.90	0.19	3.81	10.15	15.07	10.15	15.07	12.90
VANO 22	25.35	33.00	2601.48	379.70	0.00	4.00	0.00	5900.00	7.81	13.29	0.20	3.90	10.15	15.07	10.15	15.07	13.29
VANO 22	26.33	34.00	2601.48	379.70	0.00	4.00	0.00	5900.00	8.00	13.69	0.22	4.00	10.15	15.07	10.15	15.07	13.69
VANO 22	27.30	35.00	2601.48	379.70	0.00	4.00	0.00	5900.00	8.19	14.11	0.24	4.10	10.15	15.07	10.15	15.07	14.11
VANO 22	27.30	36.00	2601.48	379.70	0.00	4.00	0.00	5900.00	8.19	14.11	0.24	4.10	10.15	15.07	10.15	15.07	14.11
VANO 22	28.28	37.00	2601.48	379.70	0.00	4.00	0.00	5900.00	8.40	14.55	0.26	4.20	10.15	15.07	10.15	15.07	14.55
VANO 22	29.25	38.00	2601.48	379.70	0.00	4.00	0.00	5900.00	8.61	15.00	0.28	4.31	10.15	15.07	10.15	15.07	15.00
VANO 22	30.23	39.00	2601.48	379.70	33.32	4.00	0.40	5900.00	8.83	15.46	0.31	4.82	10.15	15.07	10.15	15.07	15.46
VANO 22	31.20	40.00	2601.48	379.70	102.67	4.00	1.24	5900.00	9.06	15.94	0.33	5.76	10.15	15.07	10.15	15.07	15.94
VANO 22	31.20	41.00	2601.48	379.70	102.67	4.00	1.24	5900.00	9.06	15.94	0.33	5.76	10.15	15.07	10.15	15.07	15.94
VANO 22	32.18	42.00	2601.48	379.70	171.98	4.00	2.07	5900.00	9.29	16.44	0.36	6.71	10.15	15.07	10.15	15.07	16.44
VANO 22	33.15	43.00	2601.48	379.70	241.23	4.00	2.90	5900.00	9.53	16.95	0.39	7.67	10.15	15.07	10.15	15.07	16.95
VANO 22	34.13	44.00	2601.48	379.70	310.43	4.00	3.73	5900.00	9.77	17.47	0.42	8.62	10.15	15.07	10.15	15.07	17.47
VANO 22	35.10	45.00	2601.48	379.70	379.58	4.00	4.57	5900.00	10.03	18.01	0.45	9.58	10.15	15.07	10.15	15.07	18.01
VANO 22	35.10	46.00	2601.48	379.70	603.77	4.00	7.26	5900.00	10.03	18.01	0.53	12.26	10.15	15.07	12.28	15.07	18.01
VANO 22	36.08	47.00	2601.48	379.70	672.85	4.00	7.26	5900.00	10.28	18.56	0.57	12.40	10.15	15.07	12.40	15.07	18.56
VANO 22	37.05	48.00	2601.48	379.70	741.88	4.00	7.26	5900.00	10.55	19.13	0.60	12.54	10.15	15.07	12.54	15.07	19.13
VANO 22	38.03	49.00	2601.48	379.70	810.87	4.00	7.26	5900.00	10.82	19.71	0.64	12.67	10.15	15.07	12.67	15.07	19.71

Armado de losa superior

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 5 PILA
I	20 008	24 9687
ys	1 495	1.754
yi	2 505	2.246

PRETENSA Exterior	
Nº TENDON	6
Nº CORDON	25
ROTURA TE	28.5
% TESADO	0 8
% PERDIDA	0.16
COEF. SEG	1

Lanzamient	Lanz. Adic
Variables	
19	19
28.5	28.5
0.75	75%
0.2	20%
1	1.0

ARMADO DE LOSA SUPERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S3)=	1.22
Inercia XX =	20.0
fyd cercos =	40816
coig tetha =	1
K rasant =	0.061
Canto sec=	0.53

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
coig tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Hipótesis max cortante Td con	Hipótesis max torsor Td max	Hipótesis max torsor Vd con	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	FLEXIÓN TRANS As int	As ext	As int
VANO 1	0.00	1.00	1536.07	865.68	2253.04	1061.72	93.40	22.88	5900.00	0.0041	3.51	13.20	64.56	15.82	5900.00	0.0041	9.15	12.48	16.83	10.50	16.83	13.20
VANO 1	0.98	2.00	1122.11	842.66	2183.96	992.87	68.23	16.72	5900.00	0.0041	3.42	10.07	60.37	14.79	5900.00	0.0041	8.87	11.83	16.83	10.50	16.83	11.83
VANO 1	1.95	3.00	1035.33	819.83	2116.53	923.74	62.95	15.42	5900.00	0.0041	3.33	9.38	56.17	13.76	5900.00	0.0041	8.59	11.18	16.83	10.50	16.83	11.18
VANO 1	2.93	4.00	949.57	797.20	2050.89	854.71	57.74	14.15	5900.00	0.0041	3.24	8.69	51.97	12.73	5900.00	0.0041	8.33	10.53	16.83	10.50	16.83	10.53
VANO 1	3.90	5.00	864.82	774.77	1986.92	785.62	52.59	12.88	5900.00	0.0041	3.14	8.01	47.77	11.70	5900.00	0.0041	8.07	9.88	16.83	10.50	16.83	10.50
VANO 1	3.90	6.00	864.82	774.77	1986.92	785.62	52.59	12.88	5900.00	0.0041	3.14	8.01	47.77	11.70	5900.00	0.0041	8.07	9.88	16.83	10.50	16.83	10.50
VANO 1	4.88	7.00	781.09	752.53	1924.64	716.47	47.49	11.64	5900.00	0.0041	3.05	7.35	43.56	10.67	5900.00	0.0041	7.81	9.24	16.83	10.50	16.83	10.50
VANO 1	5.85	8.00	698.39	730.48	1864.03	647.26	42.47	10.40	5900.00	0.0041	2.97	6.68	39.36	9.64	5900.00	0.0041	7.57	8.60	16.83	10.50	16.83	10.50
VANO 1	6.83	9.00	616.71	708.64	1805.11	578.00	37.50	9.19	5900.00	0.0041	2.88	6.03	35.15	8.61	5900.00	0.0041	7.33	7.97	16.83	10.50	16.83	10.50
VANO 1	7.80	10.00	536.05	686.98	1747.83	508.70	32.59	7.99	5900.00	0.0041	2.79	5.39	30.93	7.58	5900.00	0.0041	7.09	7.34	16.83	10.50	16.83	10.50
VANO 1	7.80	11.00	536.05	686.98	1747.83	508.70	32.59	7.99	5900.00	0.0041	2.79	5.39	30.93	7.58	5900.00	0.0041	7.09	7.34	16.83	10.50	16.83	10.50
VANO 1	8.78	12.00	456.41	665.53	1692.33	439.34	27.75	6.80	5900.00	0.0041	2.70	4.75	26.71	6.54	5900.00	0.0041	6.87	6.71	16.83	10.50	16.83	10.50
VANO 1	9.75	13.00	377.80	644.15	1638.47	369.94	22.97	5.63	5900.00	0.0041	2.61	4.12	22.49	5.51	5900.00	0.0041	6.65	6.08	16.83	10.50	16.83	10.50
VANO 1	10.73	14.00	320.20	406.97	1586.49	300.50	19.47	4.77	5900.00	0.0041	1.65	3.21	18.27	4.48	5900.00	0.0041	6.44	5.46	16.83	10.50	16.83	10.50
VANO 1	11.70	15.00	380.86	394.96	1536.33	231.02	23.16	5.67	5900.00	0.0041	1.60	3.64	14.05	3.44	5900.00	0.0041	6.24	4.84	16.83	10.50	16.83	10.50
VANO 1	11.70	16.00	397.80	394.96	1536.33	214.08	24.19	5.93	5900.00	0.0041	1.60	3.76	13.02	3.19	5900.00	0.0041	6.24	4.71	16.83	10.50	16.83	10.50
VANO 1	12.68	17.00	459.12	382.76	1488.03	144.57	27.92	6.84	5900.00	0.0041	1.55	4.20	8.79	2.15	5900.00	0.0041	6.04	4.10	16.83	10.50	16.83	10.50
VANO 1	13.65	18.00	522.90	446.83	1441.63	75.02	31.79	7.79	5900.00	0.0041	1.81	4.80	4.56	1.12	5900.00	0.0041	5.85	3.48	16.83	10.50	16.83	10.50
VANO 1	14.63	19.00	589.95	430.65	1397.13	5.44	35.87	8.79	5900.00	0.0041	1.75	5.27	0.33	0.08	5900.00	0.0041	5.67	2.88	16.83	10.50	16.83	10.50
VANO 1	15.60	20.00	659.48	414.23	1354.41	65.20	40.10	9.82	5900.00	0.0041	1.68	5.75	3.96	0.97	5900.00	0.0041	5.50	3.23	16.83	10.50	16.83	10.50
VANO 1	15.60	21.00	659.48	414.23	1354.41	65.20	40.10	9.82	5900.00	0.0041	1.68	5.75	3.96	0.97	5900.00	0.0041	5.50	3.23	16.83	10.50	16.83	10.50
VANO 1	16.58	22.00	361.92	397.57	1313.53	135.56	22.01	5.39	5900.00	0.0041	1.61	3.50	8.24	2.02	5900.00	0.0041	5.33	3.68	16.83	10.50	16.83	10.50
VANO 1	17.55	23.00	446.47	409.06	1274.57	205.94	27.15	6.65	5900.00	0.0041	1.66	4.16	12.52	3.07	5900.00	0.0041	5.17	4.12	16.83	10.50	16.83	10.50
VANO 1	18.53	24.00	381.57	402.28	1237.41	276.35	23.20	5.68	5900.00	0.0041	1.63	3.66	16.80	4.12	5900.00	0.0041	5.02	4.57	16.83	10.50	16.83	10.50
VANO 1	19.50	25.00	319.75	426.88	1202.16	346.77	19.44	4.76	5900.00	0.0041	1.73	3.25	21.09	5.17	5900.00	0.0041	4.88	5.02	16.83	10.50	16.83	10.50
VANO 1	19.50	26.00	319.75	426.88	1202.16	346.77	19.44	4.76	5900.00	0.0041	1.73	3.25	21.09	5.17	5900.00	0.0041	4.88	5.02	16.83	10.50	16.83	10.50
VANO 1	20.48	27.00	362.87	328.54	1168.72	417.20	22.06	5.41	5900.00	0.0041	1.33	3.37	25.37	6.22	5900.00	0.0041	4.74	5.48	16.83	10.50	16.83	10.50
VANO 1	21.45	28.00	438.44	310.68	1137.16	487.65	26.66	6.53	5900.00	0.0041	1.26	3.90	29.65	7.26	5900.00	0.0041	4.62	5.94	16.83	10.50	16.83	10.50
VANO 1	22.43	29.00	514.94	292.59	1107.43	558.11	31.31	7.67	5900.00	0.0041	1.19	4.43	33.94	8.31	5900.00	0.0041	4.50	6.40	16.83	10.50	16.83	10.50
VANO 1	23.40	30.00	592.37	282.16	1079.57	628.58	36.02	8.82	5900.00	0.0041	1.15	4.99	38.22	9.36	5900.00	0.0041	4.38	6.87	16.83	10.50	16.83	10.50
VANO 1	23.40	31.00	592.37	282.16	1079.57	628.58	36.02	8.82	5900.00	0.0041	1.15	4.99	38.22	9.36	5900.00	0.0041	4.38	6.87	16.83	10.50	16.83	10.50
VANO 1	24.38	32.00	670.70	273.91	1053.57	699.06	40.78	9.99	5900.00	0.0041	1.11	5.55	42.51	10.41	5900.00	0.0041	4.28	7.35	16.83	10.50	16.83	10.50
VANO 1	25.35	33.00	749.92	265.66	1029.42	769.54	45.60	11.17	5900.00	0.0041	1.08	6.13	46.79	11.46	5900.00	0.0041	4.18	7.82	16.83	10.50	16.83	10.50
VANO 1	26.33	34.00	830.00	257.41	1007.12	840.03	50.47	12.36	5900.00	0.0041	1.04	6.70	51.08	12.51	5900.00	0.0041	4.09	8.30	16.83	10.50	16.83	10.50
VANO 1	27.30	35.00	910.92	249.16	986.68	910.52	55.39	13.57	5900.00	0.0041	1.01	7.29	55.36	13.56	5900.00	0.0041	4.01	8.78	16.83	10.50	16.83	10.50
VANO 1	27.30	36.00	910.92	249.16	986.68	910.52	55.39	13.57	5900.00	0.0041	1.01	7.29	55.36	13.56	5900.00	0.0041	4.01	8.78	16.83	10.50	16.83	10.50
VANO 1	28.28	37.00	992.65	240.91	974.77	953.33	60.36	14.79	5900.00	0.0041	0.98	7.88	57.97	14.20	5900.00	0.0041	3.96	9.08	16.83	10.50	16.83	10.50
VANO 1	29.25	38.00	1075.18	232.66	973.58	1020.65	65.38	16.02	5900.00	0.0041	0.94	8.48	62.06	15.20	5900.00	0.0041	3.95	9.58	16.83	10.50	16.83	10.50
VANO 1	30.23	39.00	1158.47	224.41	975.27	1087.46	70.44	17.26	5900.00	0.0041	0.91	9.08	66.12	16.20	5900.00	0.0041	3.96	10.08	16.83	10.50	16.83	10.50
VANO 1	31.20	40.00	1242.36	216.16	977.69	1153.74	75.54	18.51	5900.00	0.0041	0.88	9.69	70.15	17.19	5900.00	0.0041	3.97	10.58	16.83	10.50	16.83	10.50
VANO 1	31.20	41.00	1242.36	216.16	977.69	1153.74	75.54	18.51	5900.00	0.0041	0.88	9.69	70.15	17.19	5900.00	0.0041	3.97	10.58	16.83	10.50	16.83	10.50
VANO 1	32.18	42.00	1326.76	207.91	980.88	1219.50	80.67	19.77	5900.00	0.0041	0.84	10.30	74.15	18.17	5900.00	0.0041	3.98	11.07	16.83	10.50	16.83	10.50
VANO 1	33.15	43.00	1411.64	199.66	985.26	1285.17	85.84	21.03	5900.00	0.0041	0.81	10.92	78.14	19.15	5900.00	0.0041	4.00	11.57	16.83	10.50	16.83	10.50
VANO 1	34.13	44.00	1496.98	191.41	991.18	1350.97	91.02	22.30	5900.00	0.0041	0.78	11.54	82.15	20.13	5900.00	0.0041	4.02	12.07	16.83	10.50	16.83	10.50
VANO 1	35.10	45.00	1582.75	183.16	1029.22	1457.58	96.24	23.58	5900.00	0.0041	0.74	12.16	88.63	21.71	5900.00	0.0041	4.18	12.95	16.83	10.50	16.83	12.95
VANO 1	35.10	46.00	1582.75	183.16	1029.22	1457.58	96.24	23.58	5900.00	0.0041	0.74	12.16	88.63	21.71	5900.00	0.0041	4.18	12.95	16.83	10.50	16.83	12.95
VANO 1	36.08	47.00	1668.91	174.91	1074.83	1526.70	101.48	24.86	5900.00	0.0041	0.71	12.79	92.83	22.74	5900.00	0.0041	4.36	13.55	16.83	10.50	16.83	13.55
VANO 1	37.05	48.00	1755.45	173.02	1122.11	1595.71	106.74	26.15	5900.00	0.0041	0.70	13.43	97.03	23.77	5900.00	0.0041	4.55	14.16	16.83	10.50	16.83	14.16
VANO 1	38.03	49.00	1842.32	186.35	1171.06	1664.60	112.02	27.45	5900.00	0.0041	0.76	14.10	101.22	24.80	5900.00	0.0041	4.75	14.78	16.83	10.50	16.83	14.78
VANO 1	39.00	50.00	1921.16	199.87	1221.66	1733.34	116.98	28.67	5900.00	0.0041	0.81	14.94	105.20	25.78	5900.00	0.0041	4.96	15.42	16.83	10.50	16.83	15.42
VANO 2	0.00	1.00	2356.78	617.61	2013.43	1717.19	143.30	35.11	5900.00	0.0041	2.51	18.81	104.41	25.58	5900.00	0.0041	8.17	16.88	16.83	10.50	18.81	18.81
VANO 2	1.20	2.00	1841.70	590.63	1937.21	1632.96	111.98	27.44	5900.00	0.0041	2.40	14.92	99.29	24.33	5900.00	0.0041	7.86	16.10	16.83	10.50	16.83	16.10
VANO 2	2.40	3.00	1735.66	563.88	1862.99	1548.60	105.54	25.86	5900.00	0.0041	2.29	14.07	94.16	23.07	5900.00	0.0041	7.56	15.32	16.83	10.50	16.83	15.32
VANO 2	3.60	4.00	1630.21	537.37	1790.77	1464.10	99.13	24.29	5900.00	0.0041	2.18	13.23	89.02	21.81	5900.00	0.0041	7.27	14.54	16.83	10.50	16.83	14.54
VANO 2	4.80	5.00	1525.41	511.09	1720.55	1379.46	92.75	22.72	5900.00	0.0041	2.07	12.40	83.88	20.55	5900.00	0.0041	6.98	13.77	16.83	10.50	16.83	13.77
VANO 2	4.80	6.00	1525.41	511.09	1720.55	1379.46	92.75	22.72	5900.00	0.0041	2.07	12.40	83.88	20.55	5900.00	0.0041	6.98	13.77	16.83	10.50	16.83	13.77
VANO 2	6.00	7.00	1421.30	485.04	1652.33	1294.69	86.42	21.17	5900.00	0.0041	1.97	11.57	78.72	19.29	5900.00	0.0041	6.71	13.00	16.83	10.50	16.83	13.00
VANO 2	7.20	8.00	1317.95	459.23	1586.10	1209.80	80.14	19.63	5900.00	0.0041	1.86	10.75	73.56	18.02	5900.00	0.0041	6.44	12.23	16.83	10.50	16.83	12.23
VANO 2	8.40	9.00	1215.41	433.66	1521.88	1124.79	73.90	18.11	5900.00	0.0041	1.76	9.93	68.39	16.76	5900.00	0.0041	6.18	11.47	16.83	10.50	16.83	11.47
VANO 2	9.60	10.00	1113.72	408.32	1459.66	1039.67	67.72	16.59	5900.00	0.0041	1.66	9.12	63.22	15.49	5900.00	0.0041	5.93	10.71	16.83	10.50	16.83	10.71
VANO 2	9.60	11.00	1113.72	408.32	1459.66	1039.67	67.72	16.59	5900.00	0.0041	1.66	9.12	63.22	15.49	5900.00	0.0041	5.93	10.71	16.83	10.50	16.83	10.71
VANO 2	10.80	12.00	1012.94	383.22	1399.43	954.44	61.59	15.09	5900.00	0.0041	1.56	8.32	58.03	14.22	5900.00	0.0041	5.68	9.95	16.83	10.50	16.83	10.50
VANO 2	12.00	13.00	913.11	358.35	1341.21	869.10	55.52	13.60	5900.00	0.0041	1.45	7.53	52.85	12.95	5900.00	0.0041	5.44	9.20	16.83	10.50	16.83	10.50
VANO 2	13.20	14.00	814.27	333.72	1284.99	783.68	49.51	12.13	5900.00	0.0041	1.35	6.74	47.65	11.67	5900.00	0.0041	5.22	8.45	16.83	10.50	16.83	10.50
VANO 2	14.40	15.00	716.46	309.32	1230.76	698.16	43.56	10.67	5900.00	0.0041	1.26	5.96	42.45	10.40	5900.00	0.0041	5.00	7.70	16.83	10.50	16.83	10.50
VANO 2	14.40	16.00	699.51	309.32	1230.76	681.22	42.53	10.42	5900.00	0.0041	1.26	5.84	41.42	10.15	5900.00	0.0041	5.00	7.57	16.83	10.50	16.83	10.50
VANO 2	15.60	17.00	602.77	285.15	1178.54	595.63	36.65	8.98	5900.00	0.0041	1.16	5.07	36.22	8.87	5900.00	0.0041	4.78	6.83	16.83	10.50	16.83	10.50
VANO 2	16.80	18.00	507.13	261.23	1128.31	509.97	30.84	7.55	5900.00	0.0041	1.06	4.31	31.01	7.60	5900.00	0.0041	4.58	6.09	16.83	10.50	16.83	10.50
VANO 2	18.00	19.00	412.61	237.53	1080.09	424.25	25.09	6.15	5900.00	0.0041	0.96	3.56	25.80	6.32	5900.00	0.0041	4.38	5.35	16.83	10.50	16.83	10.50
VANO 2	19.20	20.00	455.14	82.80	1033.97	338.47	27.67	6.78	5900.00	0.0041	0.34	3.56	20.58	5.04	5900.00	0.0041	4.20	4.62	16.83	10.50	16.83	10.50
VANO 2	19.20	21.00	455.14	82.80	1033.97	338.47	27.67	6.78	5900.00	0.0041	0.34	3.56	20.58	5.04	5900.00	0.0041	4.20	4.62	16.83	10.50	16.83	10.50
VANO 2	20.40	22.00	535.31	72.81	990.07	252.66	32.55	7.97	5900.00	0.0041	0.30	4.14	15.36	3.76	5900.00	0.0041	4.02	3.89	16.83	10.50	16.83	10.50
VANO 2	21.60	23.00	617.24	62.83	948.37	166.81	37.53	9.20	5900.00	0.0041	0.26	4.73	10.14	2.48	5900.00	0.0041	3.85	3.17	16.53	10.50	16.83	10.50
VANO 2	22.80	24.00	700.51	52.85	908.90	80.94	42.59	10.44	5900.00	0.0041	0.21	5.33	4.92	1.21	5900.00	0.0041	3.69	2.45	16.83	10.50	16.83	10.50
VANO 2	24.00	25.00	376.61	47.91	871.63	6.27	22.90	5.61	5900.00	0.0041	0.19	2.90	0.38	0.09	5900.00	0.0041	3.54	1.82	16.83	10.50	16.83	10.50
VANO 2	24.00	26.00	376.61	47.91	871.63	6.27	22.90	5.61	5900.00	0.0041	0.19	2.90	0.38	0.09	5900.00	0.0041	3.54	1.82	16.83	10.50	16.83	10.50
VANO 2	25.20	27.00	691.35	100.07	836.58	93.05	42.04	10.30	5900.00	0.0041	0.41	5.35	5.66	1.39	5900.00	0.0041	3.40	2.39	16.83	10.50	16.83	10.50
VANO 2	26.40	28.00	607.79	78.15	814.43	179.84	36.96	9.05	5900.00	0.0041	0.32	4.69	10.93	2.68	5900.00	0.0041	3.31	2.99	16.83	10.50	16.83	10.50
VANO 2	27.60	29.00	525.56	56.53	845.33	263.89	31.96	7.83	5900.00	0.0041	0.23	4.03	16.05	3.93	5900.00	0.0041	3.43	3.68	16.83	10.50	16.83	10.50
VANO 2	28.80	30.00	446.03	67.00	880.25	349.73	27.12	6.64	5900.00	0.0041	0.27	3.46	21.27	5.21	5900.00	0.0041	3.57	4.39	16.83	10.50	16.83	10.50
VANO 2	28.80	31.00	446.03	67.00	880.25	349.73	27.12	6.64	5900.00	0.0041	0.27	3.46	21.27	5.21	5900.00	0.0041	3.57	4.39	16.83	10.50	16.83	10.50
VANO 2	30.00	32.00	420.06	120.77	922.28	435.54	25.54	6.26	5900.00	0.0041	0.49	3.37	26.48	6.49	5900.00	0.0041	3.74	5.12	16.83	10.50	16.83	10.50
VANO 2	31.20	33.00	514.30	143.84	969.12	521.30	31.27	7.66	5900.00	0.0041	0.58	4.12	31.70	7.77	5900.00	0.0041	3.93	5.85	16.83	10.50	16.83	10.50
VANO 2	32.40	34.00	609.68	167.69	1018.51	607.01	37.07	9.08	5900.00	0.0041	0.68	4.88	36.91	9.04	5900.00	0.0041	4.13	6.59	16.83	10.50	16.83	10.50
VANO 2	33.60	35.00	706.18	191.77	1069.92	692.65	42.94	10.52	5900.00	0.0041	0.78	5.65	42.12	10.32	5900.00	0.0041	4.34	7.33	16.83	10.50	16.83	10.50
VANO 2	33.60	36.00	706.18	191.77	1069.92	692.65	42.94	10.52	5900.00	0.0041	0.78	5.65	42.12	10.32	5900.00	0.0041	4.34	7.33	16.83	10.50	16.83	10.50
VANO 2	34.80	37.00	803.77	216.09	1123.32	778.23	48.87	11.97	5900.00	0.0041	0.88	6.43	47.32	11.59	5900.00	0.0041	4.56	8.08	16.83	10.50	16.83	10.50
VANO 2	36.00	38.00	902.40	240.65	1178.74	863.72	54.87	13.44	5900.00	0.0041	0.98	7.21	52.52	12.87	5900.00	0.0041	4.78	8.83	16.83	10.50	16.83	10.50
VANO 2	37.20	39.00	1002.05	265.44	1236.16	949.13	60.93	14.93	5900.00	0.0041	1.08	8.00	57.71	14.14	5900.00	0.0041	5.02	9.58	16.83	10.50	16.83	10.50
VANO 2	38.40	40.00	1102.66	290.46	1295.59	1034.45	67.05	16.43	5900.00	0.0041	1.18	8.80	62.90	15.41	5900.00	0.0041	5.26	10.33	16.83	10.50	16.83	10.50
VANO 2	38.40	41.00	1102.66	290.46	1295.59	1034.45	67.05	16.43	5900.00	0.0041	1.18	8.80	62.90	15.41	5900.00	0.0041	5.26	10.33	16.83	10.50	16.83	10.50
VANO 2	39.60	42.00	1204.20	315.73	1357.02	1119.66	73.22	17.94	5900.00	0.0041	1.28	9.61	68.08	16.68	5900.00	0.0041	5.51	11.09	16.83	10.50	16.83	11.09
VANO 2	40.80	43.00	1306.63	341.22	1420.46	1204.77	79.45	19.47	5900.00	0.0041	1.39	10.43	73.26	17.95	5900.00	0.0041	5.77	11.86	16.83	10.50	16.83	11.86
VANO 2	42.00	44.00	1409.89	366.95	1485.91	1289.76	85.73	21.00	5900.00	0.0041	1.49	11.25	78.42	19.21	5900.00	0.0041	6.03	12.62	16.83	10.50	16.83	12.62
VANO 2	43.20	45.00	1513.93	392.92	1553.36	1374.64	92.05	22.55	5900.00	0.0041	1.59	12.07	83.59	20.48	5900.00	0.0041	6.31	13.39	16.83	10.50	16.83	13.39
VANO 2	43.20	46.00	1513.93	392.92	1553.36	1374.64	92.05	22.55	5900.00	0.0041	1.59	12.07	83.59	20.48	5900.00	0.0041	6.31	13.39	16.83	10.50	16.83	13.39
VANO 2	44.40	47.00	1618.70	419.12	1622.82	1459.39	98.43	24.11	5900.00	0.0041	1.70	12.91	88.74	21.74	5900.00	0.0041	6.59	14.16	16.83	10.50	16.83	14.16
VANO 2	45.60	48.00	1724.14	445.56	1694.29	1544.02	104.84	25.68	5900.00	0.0041	1.81	13.75	93.88	23.00	5900.00	0.0041	6.88	14.94	16.83	10.50	16.83	14.94
VANO 2	46.80	49.00	1830.20	472.23	1767.76	1628.52	111.29	27.26	5900.00	0.0041	1.92	14.59	99.02	24.26	5900.00	0.0041	7.18	15.72	16.83	10.50	16.83	15.72

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S3)=	1.22
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.061
Canto sec=	0.53

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC — **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** — **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 3	0.00	1.00	2355.00	466.74	1897.96	1696.24	143.20	35.08	5900.00	0.0041	1.89	18.49	103.14	25.27	5900.00	0.0041	7.70	16.49	16.83	10.50	18.49	18.49
VANO 3	1.20	2.00	1839.90	440.21	1823.49	1611.91	111.86	27.41	5900.00	0.0041	1.79	14.60	98.01	24.01	5900.00	0.0041	7.40	15.71	16.83	10.50	16.83	15.71
VANO 3	2.40	3.00	1733.86	413.92	1751.02	1527.45	105.43	25.83	5900.00	0.0041	1.68	13.75	92.88	22.75	5900.00	0.0041	7.11	14.93	16.83	10.50	16.83	14.93
VANO 3	3.60	4.00	1628.42	387.86	1680.52	1442.85	99.02	24.26	5900.00	0.0041	1.57	12.92	87.73	21.49	5900.00	0.0041	6.82	14.16	16.83	10.50	16.83	14.16
VANO 3	4.80	5.00	1523.64	362.04	1612.31	1358.13	92.65	22.70	5900.00	0.0041	1.47	12.08	82.58	20.23	5900.00	0.0041	6.54	13.39	16.83	10.50	16.83	13.39
VANO 3	4.80	6.00	1523.64	362.04	1612.31	1358.13	92.65	22.70	5900.00	0.0041	1.47	12.08	82.58	20.23	5900.00	0.0041	6.54	13.39	16.83	10.50	16.83	13.39
VANO 3	6.00	7.00	1419.57	336.45	1545.49	1273.28	86.32	21.15	5900.00	0.0041	1.37	11.26	77.42	18.97	5900.00	0.0041	6.27	12.62	16.83	10.50	16.83	12.62
VANO 3	7.20	8.00	1316.27	311.09	1480.35	1188.31	80.04	19.61	5900.00	0.0041	1.26	10.44	72.26	17.70	5900.00	0.0041	6.01	11.86	16.83	10.50	16.83	11.86
VANO 3	8.40	9.00	1213.78	286.83	1419.26	1103.23	73.80	18.08	5900.00	0.0041	1.16	9.62	67.08	16.44	5900.00	0.0041	5.76	11.10	16.83	10.50	16.83	11.10
VANO 3	9.60	10.00	1112.16	264.36	1361.11	1018.04	67.62	16.57	5900.00	0.0041	1.07	8.82	61.90	15.17	5900.00	0.0041	5.53	10.35	16.83	10.50	16.83	10.50
VANO 3	9.60	11.00	1112.16	264.36	1361.11	1018.04	67.62	16.57	5900.00	0.0041	1.07	8.82	61.90	15.17	5900.00	0.0041	5.53	10.35	16.83	10.50	16.83	10.50
VANO 3	10.80	12.00	1011.44	242.12	1304.35	932.75	61.50	15.07	5900.00	0.0041	0.98	8.03	56.72	13.90	5900.00	0.0041	5.30	9.60	16.83	10.50	16.83	10.50
VANO 3	12.00	13.00	911.67	220.11	1250.77	847.37	55.43	13.58	5900.00	0.0041	0.89	7.24	51.52	12.62	5900.00	0.0041	5.08	8.85	16.83	10.50	16.83	10.50
VANO 3	13.20	14.00	812.90	198.34	1198.58	761.89	49.43	12.11	5900.00	0.0041	0.81	6.46	46.33	11.35	5900.00	0.0041	4.87	8.11	16.83	10.50	16.83	10.50
VANO 3	14.40	15.00	715.16	176.80	1148.37	676.33	43.49	10.65	5900.00	0.0041	0.72	5.69	41.12	10.08	5900.00	0.0041	4.66	7.37	16.83	10.50	16.83	10.50
VANO 3	14.40	16.00	698.21	176.80	1148.37	659.38	42.45	10.40	5900.00	0.0041	0.72	5.56	40.09	9.82	5900.00	0.0041	4.66	7.24	16.83	10.50	16.83	10.50
VANO 3	15.60	17.00	601.53	155.99	1100.04	573.75	36.58	8.96	5900.00	0.0041	0.63	4.80	34.89	8.55	5900.00	0.0041	4.47	6.51	16.83	10.50	16.83	10.50
VANO 3	16.80	18.00	505.95	135.80	1055.29	488.05	30.76	7.54	5900.00	0.0041	0.55	4.04	29.68	7.27	5900.00	0.0041	4.28	5.78	16.83	10.50	16.83	10.50
VANO 3	18.00	19.00	428.34	25.29	1011.93	402.29	26.05	6.38	5900.00	0.0041	0.10	3.24	24.46	5.99	5900.00	0.0041	4.11	5.05	16.83	10.50	16.83	10.50
VANO 3	19.20	20.00	507.44	58.74	974.11	316.48	30.85	7.56	5900.00	0.0041	0.24	3.90	19.24	4.71	5900.00	0.0041	3.95	4.33	16.83	10.50	16.83	10.50
VANO 3	19.20	21.00	507.44	58.74	974.11	316.48	30.85	7.56	5900.00	0.0041	0.24	3.90	19.24	4.71	5900.00	0.0041	3.95	4.33	16.83	10.50	16.83	10.50
VANO 3	20.40	22.00	588.12	79.95	941.67	230.63	35.76	8.76	5900.00	0.0041	0.32	4.54	14.02	3.44	5900.00	0.0041	3.82	3.63	16.83	10.50	16.83	10.50
VANO 3	21.60	23.00	670.11	101.44	924.41	146.30	40.75	9.98	5900.00	0.0041	0.41	5.20	8.90	2.18	5900.00	0.0041	3.75	2.97	16.83	10.50	16.83	10.50
VANO 3	22.80	24.00	753.43	123.22	943.42	59.50	45.81	11.22	5900.00	0.0041	0.50	5.86	3.62	0.89	5900.00	0.0041	3.83	2.36	16.83	10.50	16.83	10.50
VANO 3	24.00	25.00	430.06	145.28	978.19	32.06	26.15	6.41	5900.00	0.0041	0.59	3.50	1.95	0.48	5900.00	0.0041	3.97	2.22	16.83	10.50	16.83	10.50
VANO 3	24.00	26.00	430.06	145.28	978.19	32.06	26.15	6.41	5900.00	0.0041	0.59	3.50	1.95	0.48	5900.00	0.0041	3.97	2.22	16.83	10.50	16.83	10.50
VANO 3	25.20	27.00	691.04	83.74	1015.56	117.97	42.02	10.29	5900.00	0.0041	0.34	5.32	7.17	1.76	5900.00	0.0041	4.12	2.94	16.83	10.50	16.83	10.50
VANO 3	26.40	28.00	607.51	93.48	1055.74	203.88	36.94	9.05	5900.00	0.0041	0.38	4.71	12.40	3.04	5900.00	0.0041	4.28	3.66	16.83	10.50	16.83	10.50
VANO 3	27.60	29.00	525.32	103.23	1096.91	289.78	31.94	7.83	5900.00	0.0041	0.42	4.12	17.62	4.32	5900.00	0.0041	4.45	4.38	16.83	10.50	16.83	10.50
VANO 3	28.80	30.00	444.44	112.97	1140.18	375.65	27.02	6.62	5900.00	0.0041	0.46	3.54	22.84	5.60	5900.00	0.0041	4.63	5.11	16.83	10.50	16.83	10.50
VANO 3	28.80	31.00	444.44	112.97	1140.18	375.65	27.02	6.62	5900.00	0.0041	0.46	3.54	22.84	5.60	5900.00	0.0041	4.63	5.11	16.83	10.50	16.83	10.50
VANO 3	30.00	32.00	473.68	259.78	1187.65	461.48	28.80	7.06	5900.00	0.0041	1.05	4.06	28.06	6.87	5900.00	0.0041	4.82	5.85	16.83	10.50	16.83	10.50
VANO 3	31.20	33.00	567.95	283.28	1235.32	547.27	34.53	8.46	5900.00	0.0041	1.15	4.81	33.28	8.15	5900.00	0.0041	5.01	6.58	16.83	10.50	16.83	10.50
VANO 3	32.40	34.00	663.35	307.02	1285.57	633.01	40.33	9.88	5900.00	0.0041	1.25	5.56	38.49	9.43	5900.00	0.0041	5.22	7.32	16.83	10.50	16.83	10.50
VANO 3	33.60	35.00	759.86	330.99	1337.80	718.69	46.20	11.32	5900.00	0.0041	1.34	6.33	43.70	10.71	5900.00	0.0041	5.43	8.07	16.83	10.50	16.83	10.50
VANO 3	33.60	36.00	759.86	330.99	1337.80	718.69	46.20	11.32	5900.00	0.0041	1.34	6.33	43.70	10.71	5900.00	0.0041	5.43	8.07	16.83	10.50	16.83	10.50
VANO 3	34.80	37.00	857.46	355.19	1392.0	804.29	52.14	12.77	5900.00	0.0041	1.44	7.11	48.91	11.98	5900.00	0.0041	5.65	8.82	16.83	10.50	16.83	10.50
VANO 3	36.00	38.00	956.09	379.62	1448.24	889.82	58.14	14.24	5900.00	0.0041	1.54	7.89	54.11	13.26	5900.00	0.0041	5.88	9.57	16.83	10.50	16.83	10.50
VANO 3	37.20	39.00	1055.74	404.29	1506.44	975.27	64.19	15.73	5900.00	0.0041	1.64	8.68	59.30	14.53	5900.00	0.0041	6.11	10.32	16.83	10.50	16.83	10.50
VANO 3	38.40	40.00	1156.36	429.19	1566.63	1060.62	70.31	17.23	5900.00	0.0041	1.74	9.48	64.49	15.80	5900.00	0.0041	6.36	11.08	16.83	10.50	16.83	11.08
VANO 3	38.40	41.00	1156.36	429.19	1566.63	1060.62	70.31	17.23	5900.00	0.0041	1.74	9.48	64.49	15.80	5900.00	0.0041	6.36	11.08	16.83	10.50	16.83	11.08
VANO 3	39.60	42.00	1257.90	454.32	1628.80	1145.87	76.49	18.74	5900.00	0.0041	1.84	10.29	69.67	17.07	5900.00	0.0041	6.61	11.84	16.83	10.50	16.83	11.84
VANO 3	40.80	43.00	1360.33	479.69	1692.56	1231.02	82.72	20.27	5900.00	0.0041	1.95	11.11	74.85	18.34	5900.00	0.0041	6.87	12.61	16.83	10.50	16.83	12.61
VANO 3	42.00	44.00	1463.60	505.28	1759.11	1316.05	88.99	21.80	5900.00	0.0041	2.05	11.93	80.02	19.61	5900.00	0.0041	7.14	13.37	16.83	10.50	16.83	13.37
VANO 3	43.20	45.00	1567.65	531.11	1827.24	1400.98	95.32	23.35	5900.00	0.0041	2.16	12.75	85.19	20.87	5900.00	0.0041	7.42	14.14	16.83	10.50	16.83	14.14
VANO 3	43.20	46.00	1567.65	531.11	1827.24	1400.98	95.32	23.35	5900.00	0.0041	2.16	12.75	85.19	20.87	5900.00	0.0041	7.42	14.14	16.83	10.50	16.83	14.14
VANO 3	44.40	47.00	1672.44	557.17	1897.37	1485.78	101.69	24.91	5900.00	0.0041	2.26	13.59	90.34	22.13	5900.00	0.0041	7.70	14.92	16.83	10.50	16.83	14.92
VANO 3	45.60	48.00	1777.91	583.47	1969.48	1570.45	108.11	26.49	5900.00	0.0041	2.37	14.43	95.49	23.40	5900.00	0.0041	7.99	15.69	16.83	10.50	16.83	15.69
VANO 3	46.80	49.00	1884.01	609.99	2043.57	1655.00	114.56	28.07	5900.00	0.0041	2.48	15.27	100.63	24.65	5900.00	0.0041	8.30	16.48	16.83	10.50	16.83	16.48
VANO 4	0.00	1.00	2490.73	631.03	2164.97	1815.11	151.45	37.10	5900.00	0.0041	2.56	19.83	110.37	27.04	5900.00	0.0041	8.79	17.91	16.83	10.50	19.83	19.83
VANO 4	1.28	2.00	1995.10	602.55	2083.92	1725.71	121.31	29.72	5900.00	0.0041	2.45	16.08	104.93	25.71	5900.00	0.0041	8.46	17.08	16.83	10.50	17.08	17.08
VANO 4	2.55	3.00	1882.70	574.32	2005.01	1636.17	114.48	28.05	5900.00	0.0041	2.33	15.19	99.49	24.37	5900.00	0.0041	8.14	16.26	16.83	10.50	16.83	16.26
VANO 4	3.83	4.00	1770.91	546.34	1928.23	1546.49	107.68	26.38	5900.00	0.0041	2.22	14.30	94.03	23.04	5900.00	0.0041	7.83	15.43	16.83	10.50	16.83	15.43
VANO 4	5.10	5.00	1659.81	518.61	1853.63	1456.67	100.93	24.73	5900.00	0.0041	2.11	13.42	88.57	21.70	5900.00	0.0041	7.52	14.61	16.83	10.50	16.83	14.61
VANO 4	5.10	6.00	1659.81	518.61	1853.63	1456.67	100.93	24.73	5900.00	0.0041	2.11	13.42	88.57	21.70	5900.00	0.0041	7.52	14.61	16.83	10.50	16.83	14.61
VANO 4	6.38	7.00	1549.46	491.13	1781.11	1366.72	94.21	23.08	5900.00	0.0041	1.99	12.54	83.10	20.36	5900.00	0.0041	7.23	13.80	16.83	10.50	16.83	13.80
VANO 4	7.65	8.00	1439.90	463.93	1710.73	1276.63	87.55	21.45	5900.00	0.0041	1.88	11.67	77.63	19.02	5900.00	0.0041	6.94	12.98	16.83	10.50	16.83	12.98
VANO 4	8.93	9.00	1331.20	437.02	1642.63	1186.42	80.94	19.83	5900.00	0.0041	1.77	10.80	72.14	17.67	5900.00	0.0041	6.67	12.17	16.83	10.50	16.83	12.17
VANO 4	10.20	10.00	1223.40	410.37	1576.53	1096.09	74.39	18.23	5900.00	0.0041	1.67	9.95	66.65	16.33	5900.00	0.0041	6.40	11.36	16.83	10.50	16.83	11.36
VANO 4	10.20	11.00	1223.40	410.37	1576.53	1096.09	74.39	18.23	5900.00	0.0041	1.67	9.95	66.65	16.33	5900.00	0.0041	6.40	11.36	16.83	10.50	16.83	11.36
VANO 4	11.48	12.00	1116.56	383.97	1512.72	1005.65	67.89	16.63	5900.00	0.0041	1.56	9.10	61.15	14.98	5900.00	0.0041	6.14	10.56	16.83	10.50	16.83	10.56
VANO 4	12.75	13.00	1010.73	357.82	1450.94	915.10	61.46	15.06	5900.00	0.0041	1.45	8.25	55.64	13.63	5900.00	0.0041	5.89	9.76	16.83	10.50	16.83	10.50
VANO 4	14.03	14.00	905.94	331.92	1391.38	824.45	55.09	13.50	5900.00	0.0041	1.35	7.42	50.13	12.28	5900.00	0.0041	5.65	8.96	16.83	10.50	16.83	10.50
VANO 4	15.30	15.00	802.23	306.27	1333.92	733.71	48.78	11.95	5900.00	0.0041	1.24	6.60	44.61	10.93	5900.00	0.0041	5.41	8.17	16.83	10.50	16.83	10.50
VANO 4	15.30	16.00	785.29	306.27	1333.92	716.77	47.75	11.70	5900.00	0.0041	1.24	6.47	43.58	10.68	5900.00	0.0041	5.41	8.05	16.83	10.50	16.83	10.50
VANO 4	16.58	17.00	682.71	280.87	1278.51	625.95	41.51	10.17	5900.00	0.0041	1.14	5.66	38.06	9.32	5900.00	0.0041	5.19	7.26	16.83	10.50	16.83	10.50
VANO 4	17.85	18.00	581.29	255.72	1225.4	535.05	35.35	8.66	5900.00	0.0041	1.04	4.85	32.53	7.97	5900.00	0.0041	4.97	6.47	16.83	10.50	16.83	10.50
VANO 4	19.13	19.00	481.07	230.81	1174.36	444.08	29.25	7.17	5900.00	0.0041	0.94	4.05	27.00	6.62	5900.00	0.0041	4.77	5.69	16.83	10.50	16.83	10.50
VANO 4	20.40	20.00	455.81	79.65	1125.44	353.07	27.72	6.79	5900.00	0.0041	0.32	3.56	21.47	5.26	5900.00	0.0041	4.57	4.91	16.83	10.50	16.83	10.50
VANO 4	20.40	21.00	455.81	79.65	1125.44	353.07	27.72	6.79	5900.00	0.0041	0.32	3.56	21.47	5.26	5900.00	0.0041	4.57	4.91	16.83	10.50	16.83	10.50
VANO 4	21.68	22.00	541.45	69.27	1078.76	262.00	32.92	8.07	5900.00	0.0041	0.26	4.17	15.93	3.90	5900.00	0.0041	4.38	4.14	16.83	10.50	16.83	10.50
VANO 4	22.95	23.00	628.50	58.90	1034.30	170.90	38.22	9.36	5900.00	0.0041	0.24	4.80	10.39	2.55	5900.00	0.0041	4.20	3.37	16.83	10.50	16.83	10.50
VANO 4	24.23	24.00	716.97	48.52	992.26	79.78	43.60	10.68	5900.00	0.0041	0.20	5.44	4.85	1.19	5900.00	0.0041	4.03	2.61	16.83	10.50	16.83	10.50
VANO 4	25.50	25.00	424.70	60.28	952.58	28.92	25.82	6.33	5900.00	0.0041	0.24	3.29	1.76	0.43	5900.00	0.0041	3.87	2.15	16.83	10.50	16.83	10.50
VANO 4	25.50	26.00	424.70	60.28	952.58	28.92	25.82	6.33	5900.00	0.0041	0.24	3.29	1.76	0.43	5900.00	0.0041	3.87	2.15	16.83	10.50	16.83	10.50
VANO 4	26.78	27.00	675.10	86.26	923.34	121.02	41.05	10.06	5900.00	0.0041	0.35	5.20	7.36	1.80	5900.00	0.0041	3.75	2.78	16.83	10.50	16.83	10.50
VANO 4	28.05	28.00	586.33	63.24	952.41	210.95	35.65	8.73	5900.00	0.0041	0.26	4.50	12.83	3.14	5900.00	0.0041	3.87	3.50	16.83	10.50	16.83	10.50
VANO 4	29.33	29.00	498.98	41.39	992.68	302.06	30.34	7.43	5900.00	0.0041	0.17	3.80	18.37	4.50	5900.00	0.0041	4.03	4.26	16.83	10.50	16.83	10.50
VANO 4	30.60	30.00	423.44	133.99	1035.31	393.15	25.75	6.31	5900.00	0.0041	0.54	3.43	23.91	5.86	5900.00	0.0041	4.20	5.03	16.83	10.50	16.83	10.50
VANO 4	30.60	31.00	423.44	133.99	1035.31	393.15	25.75	6.31	5900.00	0.0041	0.54	3.43	23.91	5.86	5900.00	0.0041	4.20	5.03	16.83	10.50	16.83	10.50
VANO 4	31.88	32.00	522.17	158.28	1082.51	484.19	31.75	7.78	5900.00	0.0041	0.64	4.21	29.44	7.21	5900.00	0.0041	4.39	5.80	16.83	10.50	16.83	10.50
VANO 4	33.15	33.00	622.13	183.11	1132.12	575.18	37.83	9.27	5900.00	0.0041	0.74	5.01	34.97	8.57	5900.00	0.0041	4.60	6.58	16.83	10.50	16.83	10.50
VANO 4	34.43	34.00	723.29	208.18	1183.87	666.12	43.98	10.78	5900.00	0.0041	0.85	5.81	40.50	9.92	5900.00	0.0041	4.81	7.36	16.83	10.50	16.83	10.50
VANO 4	35.70	35.00	825.63	233.51	1237.75	756.98	50.20	12.30	5900.00	0.0041	0.95	6.62	46.03	11.28	5900.00	0.0041	5.02	8.15	16.83	10.50	16.83	10.50
VANO 4	35.70	36.00	825.63	233.51	1237.75	756.98	50.20	12.30	5900.00	0.0041	0.95	6.62	46.03	11.28	5900.00	0.0041	5.02	8.15	16.83	10.50	16.83	10.50
VANO 4	36.98	37.00	929.11	259.09	1293.77	847.76	56.49	13.84	5900.00	0.0041	1.05	7.45	51.55	12.63	5900.00	0.0041	5.25	8.94	16.83	10.50	16.83	10.50
VANO 4	38.25	38.00	1033.69	284.92	1351.83	938.46	62.85	15.40	5900.00	0.0041	1.16	8.28	57.06	13.98	5900.00	0.0041	5.49	9.73	16.83	10.50	16.83	10.50
VANO 4	39.53	39.00	1139.33	310.99	1412.22	1029.06	69.28	16.97	5900.00	0.0041	1.26	9.12	62.57	15.33	5900.00	0.0041	5.73	10.53	16.83	10.50	16.83	10.50
VANO 4	40.80	40.00	1246.00	337.32	1474.64	1119.57	75.76	18.56	5900.00	0.0041	1.37	9.97	68.08	16.68	5900.00	0.0041	5.99	11.33	16.83	10.50	16.83	10.53
VANO 4	40.80	41.00	1246.00	337.32	1474.64	1119.57	75.76	18.56	5900.00	0.0041	1.37	9.97	68.08	16.68	5900.00	0.0041	5.99	11.33	16.83	10.50	16.83	11.33
VANO 4	42.08	42.00	1353.64	363.90	1539.20	1208.96	82.31	20.17	5900.00	0.0041	1.48	10.82	73.57	18.03	5900.00	0.0041	6.25	12.14	16.83	10.50	16.83	11.33
VANO 4	43.35	43.00	1462.20	390.73	1605.89	1300.23	88.91	21.78	5900.00	0.0041	1.59	11.68	79.06	19.37	5900.00	0.0041	6.52	12.94	16.83	10.50	16.83	12.14
VANO 4	44.63	44.00	1559.90	417.80	1674.72	1388.72	94.85	23.24	5900.00	0.0041	1.70	12.47	84.44	20.69	5900.00	0.0041	6.80	13.74	16.83	10.50	16.83	12.94
VANO 4	45.90	45.00	1664.60	445.13	1745.68	1478.75	101.22	24.80	5900.00	0.0041	1.81	13.30	89.92	22.03	5900.00	0.0041	7.09	14.56	16.83	10.50	16.83	13.74
VANO 4	45.90	46.00	1664.60	445.13	1745.68	1478.75	101.22	24.80	5900.00	0.0041	1.81	13.30	89.92	22.03	5900.00	0.0041	7.09	14.56	16.83	10.50	16.83	14.56
VANO 4	47.18	47.00	1775.83	472.71	1818.78	1568.65	107.97	26.45	5900.00	0.0041	1.92	14.19	95.38	23.37	5900.00	0.0041	7.38	15.38	16.83	10.50	16.83	15.38
VANO 4	48.48	48.00	1887.37	500.54	1894.02	1658.41	114.78	28.12	5900.00	0.0041	2.03	15.07	100.84	24.71	5900.00	0.0041	7.69	16.20	16.83	10.50	16.83	16.20
VANO 4	49.73	49.00	1999.76	528.62	1971.38	1748.03	121.60	29.79	5900.00	0.0041	2.15	15.97	106.29	26.04	5900.00	0.0041	8.00	17.02	16.83	10.50	17.02	17.02

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiint	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	25.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S3)=	1.22
Inercia XX =	20.0
fyd cercos =	40816
coig tetha =	1
K resant =	0.061
Canto sec=	0.53

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
coig tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	386.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

			Hipótesis max cortante		Hipótesis max torsor		Dos caras				Una cara	Dos caras					Una cara	FLEXIÓN TRANS		ARMADO DEFINITIV	
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 5	38.25	38.00	886.88	258.36	1344.52	892.25	60.01	14.70	5900.00	0.0041	0.95	7.05	48.74	11.94	5900.00	0.0041	5.23	8.59	16.83	10.50	16.83	10.50
VANO 5	39.53	39.00	1092.69	282.02	1402.58	982.60	66.44	16.26	5900.00	0.0041	1.14	7.88	54.25	13.29	5900.00	0.0041	5.46	9.37	16.83	10.50	16.83	10.50
VANO 5	40.80	40.00	1199.49	306.98	1463.83	1073.24	72.94	17.87	5900.00	0.0041	1.25	8.71	59.76	14.64	5900.00	0.0041	5.69	10.17	16.83	10.50	16.83	10.50
VANO 5	40.80	41.00	1199.49	306.98	1463.83	1073.24	72.94	17.87	5900.00	0.0041	1.25	9.56	65.26	15.99	5900.00	0.0041	5.94	10.97	16.83	10.50	16.83	10.97
VANO 5	42.08	42.00	1307.25	332.19	1527.19	1163.57	79.49	19.47	5900.00	0.0041	1.35	10.41	70.75	17.33	5900.00	0.0041	6.20	11.77	16.83	10.50	16.83	10.97
VANO 5	43.35	43.00	1415.92	359.16	1594.18	1253.78	86.10	21.09	5900.00	0.0041	1.46	11.28	76.24	18.68	5900.00	0.0041	6.47	12.57	16.83	10.50	16.83	11.77
VANO 5	44.63	44.00	1525.44	386.37	1663.29	1343.87	92.75	22.72	5900.00	0.0041	1.57	12.15	81.71	20.02	5900.00	0.0041	6.75	13.39	16.83	10.50	16.83	12.57
VANO 5	45.90	45.00	1635.77	413.84	1734.52	1433.83	99.46	24.37	5900.00	0.0041	1.68	13.02	87.18	21.36	5900.00	0.0041	7.04	14.20	16.83	10.50	16.83	13.39
VANO 5	45.90	46.00	1635.77	413.84	1734.52	1433.83	99.46	24.37	5900.00	0.0041	1.68	13.02	87.18	21.36	5900.00	0.0041	7.04	14.20	16.83	10.50	16.83	14.20
VANO 5	47.18	47.00	1746.83	441.55	1807.87	1523.65	106.22	26.02	5900.00	0.0041	1.79	13.91	92.65	22.70	5900.00	0.0041	7.34	15.02	16.83	10.50	16.83	14.20
VANO 5	48.45	48.00	1858.59	469.51	1883.34	1613.33	113.01	27.69	5900.00	0.0041	1.91	14.80	98.10	24.03	5900.00	0.0041	7.64	15.84	16.83	10.50	16.83	15.02
VANO 5	49.73	49.00	1970.96	497.72	1960.93	1702.88	119.84	29.36	5900.00	0.0041	2.02	15.69	103.54	25.37	5900.00	0.0041	7.96	16.66	16.83	10.50	16.83	15.84
VANO 5	51.00	50.00	2066.66	524.18	2040.61	1792.27	149.88	36.76	5900.00	0.0041	2.74	19.44	108.96	26.70	5900.00	0.0041	8.26	17.49	16.83	10.50	19.44	16.66
VANO 6	0.00	1.00	2406.83	757.03	2337.01	1742.10	146.35	35.86	5900.00	0.0041	3.07	19.46	105.93	25.95	5900.00	0.0041	9.49	17.72	16.83	10.50	19.46	19.46
VANO 6	1.20	2.00	1891.68	730.03	2261.03	1657.69	115.02	28.18	5900.00	0.0041	2.96	15.57	100.80	24.70	5900.00	0.0041	9.18	16.94	16.83	10.50	16.94	16.94
VANO 6	2.40	3.00	1785.62	703.26	2186.91	1573.15	108.57	26.60	5900.00	0.0041	2.85	14.73	95.66	23.44	5900.00	0.0041	8.88	16.16	16.83	10.50	16.83	16.16
VANO 6	3.60	4.00	1680.19	676.72	2114.81	1488.48	102.16	25.03	5900.00	0.0041	2.75	13.89	90.51	22.17	5900.00	0.0041	8.58	15.38	16.83	10.50	16.83	15.38
VANO 6	4.80	5.00	1575.43	650.41	2044.73	1403.69	95.79	23.47	5900.00	0.0041	2.64	13.05	85.35	20.91	5900.00	0.0041	8.30	14.61	16.83	10.50	16.83	14.61
VANO 6	4.80	6.00	1575.43	650.41	2044.73	1403.69	95.79	23.47	5900.00	0.0041	2.64	13.05	85.35	20.91	5900.00	0.0041	8.30	14.61	16.83	10.50	16.83	14.61
VANO 6	6.00	7.00	1471.41	624.33	1976.53	1318.78	89.47	21.92	5900.00	0.0041	2.53	12.23	80.19	19.65	5900.00	0.0041	8.02	13.83	16.83	10.50	16.83	13.83
VANO 6	7.20	8.00	1368.18	598.47	1910.21	1233.75	83.19	20.38	5900.00	0.0041	2.43	11.41	75.02	18.38	5900.00	0.0041	7.75	13.07	16.83	10.50	16.83	13.07
VANO 6	8.40	9.00	1265.78	572.85	1845.91	1148.61	76.97	18.86	5900.00	0.0041	2.33	10.59	69.84	17.11	5900.00	0.0041	7.49	12.30	16.83	10.50	16.83	12.30
VANO 6	9.60	10.00	1164.26	547.45	1783.61	1063.36	70.79	17.34	5900.00	0.0041	2.22	9.78	64.66	15.84	5900.00	0.0041	7.24	11.54	16.83	10.50	16.83	11.54
VANO 6	9.60	11.00	1164.26	547.45	1783.61	1063.36	70.79	17.34	5900.00	0.0041	2.22	9.78	64.66	15.84	5900.00	0.0041	7.24	11.54	16.83	10.50	16.83	11.54
VANO 6	10.80	12.00	1063.67	522.29	1723.29	978.02	64.68	15.85	5900.00	0.0041	2.12	8.98	59.47	14.57	5900.00	0.0041	7.00	10.78	16.83	10.50	16.83	10.78
VANO 6	12.00	13.00	964.04	497.35	1664.87	892.58	58.62	14.36	5900.00	0.0041	2.02	8.19	54.27	13.30	5900.00	0.0041	6.76	10.03	16.83	10.50	16.83	10.50
VANO 6	13.20	14.00	865.42	472.64	1608.4	807.06	52.62	12.89	5900.00	0.0041	1.92	7.41	49.07	12.02	5900.00	0.0041	6.53	9.28	16.83	10.50	16.83	10.50
VANO 6	14.40	15.00	767.84	448.16	1553.90	721.46	46.69	11.44	5900.00	0.0041	1.82	6.63	43.87	10.75	5900.00	0.0041	6.31	8.53	16.83	10.50	16.83	10.50
VANO 6	14.40	16.00	750.89	448.16	1553.90	704.52	45.66	11.19	5900.00	0.0041	1.82	6.50	42.84	10.50	5900.00	0.0041	6.31	8.40	16.83	10.50	16.83	10.50
VANO 6	15.60	17.00	654.39	423.91	1501.35	618.85	39.79	9.75	5900.00	0.0041	1.72	5.73	37.63	9.22	5900.00	0.0041	6.09	7.66	16.83	10.50	16.83	10.50
VANO 6	16.80	18.00	558.99	399.88	1450.70	533.12	33.99	8.33	5900.00	0.0041	1.62	4.98	32.42	7.94	5900.00	0.0041	5.89	6.92	16.83	10.50	16.83	10.50
VANO 6	18.00	19.00	464.74	376.09	1402.11	447.34	28.26	6.92	5900.00	0.0041	1.53	4.22	27.20	6.66	5900.00	0.0041	5.69	6.18	16.83	10.50	16.83	10.50
VANO 6	19.20	20.00	477.66	226.51	1355.55	361.51	29.04	7.12	5900.00	0.0041	0.92	4.02	21.98	5.39	5900.00	0.0041	5.50	5.44	16.83	10.50	16.83	10.50
VANO 6	19.20	21.00	477.66	226.51	1355.55	361.51	29.04	7.12	5900.00	0.0041	0.92	4.02	21.98	5.39	5900.00	0.0041	5.50	5.44	16.83	10.50	16.83	10.50
VANO 6	20.40	22.00	558.53	207.33	1311.11	275.65	33.96	8.32	5900.00	0.0041	0.84	4.58	16.76	4.11	5900.00	0.0041	5.32	4.71	16.83	10.50	16.83	10.50
VANO 6	21.60	23.00	640.71	197.25	1268.86	189.76	38.96	9.54	5900.00	0.0041	0.80	5.17	11.54	2.83	5900.00	0.0041	5.15	3.99	16.83	10.50	16.83	10.50
VANO 6	22.80	24.00	724.21	187.17	1228.71	103.86	44.04	10.79	5900.00	0.0041	0.76	5.77	6.32	1.55	5900.00	0.0041	4.99	3.27	16.83	10.50	16.83	10.50
VANO 6	24.00	25.00	421.04	260.02	1190.84	17.95	25.60	6.27	5900.00	0.0041	1.06	3.66	1.09	0.27	5900.00	0.0041	4.83	2.55	16.83	10.50	16.83	10.50
VANO 6	24.00	26.00	421.04	260.02	1190.84	17.95	25.60	6.27	5900.00	0.0041	1.06	3.66	1.09	0.27	5900.00	0.0041	4.83	2.55	16.83	10.50	16.83	10.50
VANO 6	25.20	27.00	744.38	237.62	1155.08	85.59	45.26	11.09	5900.00	0.0041	0.96	6.03	5.20	1.28	5900.00	0.0041	4.69	2.98	16.83	10.50	16.83	10.50
VANO 6	26.40	28.00	661.03	215.51	1121.45	172.39	40.19	9.85	5900.00	0.0041	0.87	5.36	10.48	2.57	5900.00	0.0041	4.55	3.56	16.83	10.50	16.83	10.50
VANO 6	27.60	29.00	579.01	193.68	1103.68	259.16	35.21	8.63	5900.00	0.0041	0.79	4.71	15.76	3.86	5900.00	0.0041	4.48	4.17	16.83	10.50	16.83	10.50
VANO 6	28.80	30.00	498.29	172.12	1088.18	345.91	30.30	7.42	5900.00	0.0041	0.70	4.06	21.03	5.15	5900.00	0.0041	4.42	4.79	16.83	10.50	16.83	10.50
VANO 6	28.80	31.00	498.29	172.12	1088.18	345.91	30.30	7.42	5900.00	0.0041	0.70	4.06	21.03	5.15	5900.00	0.0041	4.42	4.79	16.83	10.50	16.83	10.50
VANO 6	30.00	32.00	444.49	126.71	1074.84	432.61	27.03	6.62	5900.00	0.0041	0.51	3.57	26.31	6.44	5900.00	0.0041	4.36	5.40	16.83	10.50	16.83	10.50
VANO 6	31.20	33.00	538.90	116.63	1101.40	514.12	32.77	8.03	5900.00	0.0041	0.47	4.25	31.26	7.66	5900.00	0.0041	4.47	6.06	16.83	10.50	16.83	10.50
VANO 6	32.40	34.00	634.44	128.92	1140.13	599.82	38.58	9.45	5900.00	0.0041	0.52	4.99	36.47	8.94	5900.00	0.0041	4.63	6.78	16.83	10.50	16.83	10.50
VANO 6	33.60	35.00	731.08	142.87	1180.82	685.45	44.45	10.89	5900.00	0.0041	0.58	5.74	41.68	10.21	5900.00	0.0041	4.79	7.50	16.83	10.50	16.83	10.50
VANO 6	33.60	36.00	731.08	142.87	1180.82	685.45	44.45	10.89	5900.00	0.0041	0.58	5.74	41.68	10.21	5900.00	0.0041	4.79	7.50	16.83	10.50	16.83	10.50
VANO 6	34.80	37.00	828.77	157.04	1223.46	771.01	50.39	12.35	5900.00	0.0041	0.64	6.49	46.88	11.49	5900.00	0.0041	4.97	8.23	16.83	10.50	16.83	10.50
VANO 6	36.00	38.00	927.50	171.45	1268.06	856.49	56.40	13.82	5900.00	0.0041	0.70	7.26	52.08	12.76	5900.00	0.0041	5.15	8.95	16.83	10.50	16.83	10.50
VANO 6	37.20	39.00	1027.21	191.90	1320.43	941.88	62.46	15.30	5900.00	0.0041	0.78	8.04	57.27	14.03	5900.00	0.0041	5.36	9.70	16.83	10.50	16.83	10.50
VANO 6	38.40	40.00	1127.88	213.19	1375.36	1027.17	68.58	16.80	5900.00	0.0041	0.87	8.83	62.46	15.30	5900.00	0.0041	5.58	10.44	16.83	10.50	16.83	10.50
VANO 6	38.40	41.00	1127.88	213.19	1375.36	1027.17	68.58	16.80	5900.00	0.0041	0.87	8.83	62.46	15.30	5900.00	0.0041	5.58	10.44	16.83	10.50	16.83	10.50
VANO 6	39.60	42.00	1229.45	234.71	1432.24	1112.36	74.76	18.32	5900.00	0.0041	0.95	9.63	67.64	16.57	5900.00	0.0041	5.81	11.19	16.83	10.50	16.83	10.50
VANO 6	40.80	43.00	1331.89	256.45	1491.08	1197.44	80.99	19.84	5900.00	0.0041	1.04	10.44	72.81	17.84	5900.00	0.0041	6.05	11.95	16.83	10.50	16.83	11.19
VANO 6	42.00	44.00	1435.15	278.43	1551.87	1262.41	87.26	21.38	5900.00	0.0041	1.13	11.25	77.98	19.10	5900.00	0.0041	6.30	12.70	16.83	10.50	16.83	11.95
VANO 6	43.20	45.00	1539.17	300.63	1614.61	1367.26	93.59	22.93	5900.00	0.0041	1.22	12.07	83.14	20.37	5900.00	0.0041	6.55	13.46	16.83	10.50	16.83	12.70
VANO 6	43.20	46.00	1539.17	300.63	1614.61	1367.26	93.59	22.93	5900.00	0.0041	1.22	12.07	83.14	20.37	5900.00	0.0041	6.55	13.46	16.83	10.50	16.83	13.46
VANO 6	44.40	47.00	1643.90	323.07	1679.31	1451.99	99.96	24.49	5900.00	0.0041	1.31	12.90	88.29	21.63	5900.00	0.0041	6.82	14.22	16.83	10.50	16.83	13.46
VANO 6	45.60	48.00	1749.29	346.56	1746.52	1536.59	106.37	26.06	5900.00	0.0041	1.41	13.73	93.43	22.89	5900.00	0.0041	7.09	14.99	16.83	10.50	16.83	14.22
VANO 6	46.80	49.00	1855.28	370.34	1815.72	1621.06	112.81	27.64	5900.00	0.0041	1.50	14.57	98.57	24.15	5900.00	0.0041	7.37	15.76	16.83	10.50	16.83	14.99
																						15.76

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 8 PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	21.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S3)=	1.22
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.061
Canto sec=	0.53

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 7	0.00	1.00	2316.53	710.45	2345.13	1717.32	140.86	34.51	5900.00	0.0041	2.88	18.70	104.42	25.58	5900.00	0.0041	9.52	17.55	16.83	10.50	18.70	18.70
VANO 7	1.20	2.00	1801.53	683.29	2269.59	1632.98	109.54	26.84	5900.00	0.0041	2.77	14.81	99.29	24.33	5900.00	0.0041	9.21	16.77	16.83	10.50	16.83	16.77
VANO 7	2.40	3.00	1698.44	656.36	2195.30	1548.51	103.27	25.30	5900.00	0.0041	2.66	13.98	94.16	23.07	5900.00	0.0041	8.91	15.99	16.83	10.50	16.83	15.99
VANO 7	3.60	4.00	1605.64	629.66	2124.35	1463.91	97.63	23.92	5900.00	0.0041	2.56	13.24	89.01	21.81	5900.00	0.0041	8.62	15.22	16.83	10.50	16.83	15.22
VANO 7	4.80	5.00	1513.50	603.18	2054.14	1379.18	92.03	22.55	5900.00	0.0041	2.45	12.50	83.86	20.55	5900.00	0.0041	8.34	14.44	16.83	10.50	16.83	14.44
VANO 7	4.80	6.00	1513.50	603.18	2054.14	1379.18	92.03	22.55	5900.00	0.0041	2.45	12.50	83.86	20.55	5900.00	0.0041	8.34	14.44	16.83	10.50	16.83	14.44
VANO 7	6.00	7.00	1422.07	576.92	1986.18	1294.33	86.47	21.18	5900.00	0.0041	2.34	11.76	78.70	19.28	5900.00	0.0041	8.06	13.67	16.83	10.50	16.83	13.67
VANO 7	7.20	8.00	1331.41	550.89	1920.16	1209.36	80.96	19.83	5900.00	0.0041	2.24	11.04	73.54	18.02	5900.00	0.0041	7.79	12.91	16.83	10.50	16.83	12.91
VANO 7	8.40	9.00	1232.18	525.09	1856.39	1124.28	74.92	18.36	5900.00	0.0041	2.13	10.24	68.36	16.75	5900.00	0.0041	7.53	12.14	16.83	10.50	16.83	12.14
VANO 7	9.60	10.00	1130.68	499.51	1793.36	1039.09	68.75	16.84	5900.00	0.0041	2.03	9.44	63.18	15.48	5900.00	0.0041	7.28	11.38	16.83	10.50	16.83	11.38
VANO 7	9.60	11.00	1130.68	499.51	1793.36	1039.09	68.75	16.84	5900.00	0.0041	2.03	9.44	63.18	15.48	5900.00	0.0041	7.28	11.38	16.83	10.50	16.83	11.38
VANO 7	10.80	12.00	1030.10	474.16	1733.77	953.80	62.64	15.35	5900.00	0.0041	1.92	8.64	58.00	14.21	5900.00	0.0041	7.04	10.62	16.83	10.50	16.83	10.62
VANO 7	12.00	13.00	930.46	449.04	1675.12	868.42	56.58	13.86	5900.00	0.0041	1.82	7.84	52.80	12.94	5900.00	0.0041	6.80	9.87	16.83	10.50	16.83	10.50
VANO 7	13.20	14.00	831.83	424.14	1619.12	782.95	50.58	12.39	5900.00	0.0041	1.72	7.06	47.61	11.66	5900.00	0.0041	6.57	9.12	16.83	10.50	16.83	10.50
VANO 7	14.40	15.00	734.22	399.46	1564.36	697.40	44.64	10.94	5900.00	0.0041	1.62	6.28	42.41	10.39	5900.00	0.0041	6.35	8.37	16.83	10.50	16.83	10.50
VANO 7	14.40	16.00	717.28	399.46	1564.36	680.45	43.61	10.69	5900.00	0.0041	1.62	6.15	41.38	10.14	5900.00	0.0041	6.35	8.24	16.83	10.50	16.83	10.50
VANO 7	15.60	17.00	620.74	375.01	1512.14	594.83	37.74	9.25	5900.00	0.0041	1.52	5.38	36.17	8.86	5900.00	0.0041	6.14	7.50	16.83	10.50	16.83	10.50
VANO 7	16.80	18.00	525.30	350.79	1461.97	509.14	31.94	7.83	5900.00	0.0041	1.42	4.62	30.96	7.58	5900.00	0.0041	5.93	6.76	16.83	10.50	16.83	10.50
VANO 7	18.00	19.00	430.99	326.79	1413.14	423.39	26.21	6.42	5900.00	0.0041	1.33	3.87	25.74	6.31	5900.00	0.0041	5.74	6.02	16.83	10.50	16.83	10.50
VANO 7	19.20	20.00	489.77	177.07	1366.96	337.60	29.78	7.30	5900.00	0.0041	0.72	4.01	20.53	5.03	5900.00	0.0041	5.55	5.29	16.83	10.50	16.83	10.50
VANO 7	19.20	21.00	489.77	177.07	1366.96	337.60	29.78	7.30	5900.00	0.0041	0.72	4.01	20.53	5.03	5900.00	0.0041	5.55	5.29	16.83	10.50	16.83	10.50
VANO 7	20.40	22.00	567.43	166.70	1322.63	251.77	34.50	8.45	5900.00	0.0041	0.68	4.56	15.31	3.75	5900.00	0.0041	5.37	4.56	16.83	10.50	16.83	10.50
VANO 7	21.60	23.00	646.40	156.32	1280.35	165.91	39.30	9.63	5900.00	0.0041	0.63	5.13	10.09	2.47	5900.00	0.0041	5.20	3.83	16.83	10.50	16.83	10.50
VANO 7	22.80	24.00	726.69	145.95	1240.12	80.03	44.19	10.83	5900.00	0.0041	0.59	5.71	4.87	1.19	5900.00	0.0041	5.04	3.11	16.83	10.50	16.83	10.50
VANO 7	24.00	25.00	399.83	135.57	1202.35	10.26	24.31	5.96	5900.00	0.0041	0.55	3.25	0.62	0.15	5900.00	0.0041	4.88	2.52	16.83	10.50	16.83	10.50
VANO 7	24.00	26.00	399.83	135.57	1202.35	10.26	24.31	5.96	5900.00	0.0041	0.55	3.25	0.62	0.15	5900.00	0.0041	4.88	2.52	16.83	10.50	16.83	10.50
VANO 7	25.20	27.00	711.62	187.04	1166.12	97.04	43.27	10.60	5900.00	0.0041	0.76	5.68	5.90	1.45	5900.00	0.0041	4.74	3.09	16.83	10.50	16.83	10.50
VANO 7	26.40	28.00	631.31	164.70	1134.12	183.82	38.39	9.40	5900.00	0.0041	0.67	5.04	11.18	2.74	5900.00	0.0041	4.61	3.67	16.83	10.50	16.83	10.50
VANO 7	27.60	29.00	552.32	142.63	1120.16	270.58	33.58	8.23	5900.00	0.0041	0.58	4.40	16.45	4.03	5900.00	0.0041	4.55	4.29	16.83	10.50	16.83	10.50
VANO 7	28.80	30.00	474.65	120.83	1107.55	357.31	28.86	7.07	5900.00	0.0041	0.49	3.78	21.73	5.32	5900.00	0.0041	4.50	4.91	16.83	10.50	16.83	10.50
VANO 7	28.80	31.00	474.65	120.83	1107.55	357.31	28.86	7.07	5900.00	0.0041	0.49	3.78	21.73	5.32	5900.00	0.0041	4.50	4.91	16.83	10.50	16.83	10.50
VANO 7	30.00	32.00	441.60	111.38	1097.08	444.01	26.85	6.58	5900.00	0.0041	0.45	3.52	27.00	6.61	5900.00	0.0041	4.45	5.53	16.83	10.50	16.83	10.50
VANO 7	31.20	33.00	535.90	124.89	1117.71	525.19	32.59	7.98	5900.00	0.0041	0.51	4.25	31.93	7.82	5900.00	0.0041	4.53	6.18	16.83	10.50	16.83	10.50
VANO 7	32.40	34.00	631.32	143.44	1155.16	610.89	38.39	9.40	5900.00	0.0041	0.58	4.99	37.15	9.10	5900.00	0.0041	4.69	6.90	16.83	10.50	16.83	10.50
VANO 7	33.60	35.00	727.84	163.77	1196.16	696.51	44.26	10.84	5900.00	0.0041	0.66	5.75	42.35	10.38	5900.00	0.0041	4.86	7.62	16.83	10.50	16.83	10.50
VANO 7	33.60	36.00	727.84	163.77	1196.16	696.51	44.26	10.84	5900.00	0.0041	0.66	5.75	42.35	10.38	5900.00	0.0041	4.86	7.62	16.83	10.50	16.83	10.50
VANO 7	34.80	37.00	825.43	184.39	1239.80	782.07	50.19	12.30	5900.00	0.0041	0.75	6.52	47.55	11.65	5900.00	0.0041	5.03	8.34	16.83	10.50	16.83	10.50
VANO 7	36.00	38.00	924.05	205.23	1284.18	867.55	56.19	13.77	5900.00	0.0041	0.83	7.30	52.75	12.92	5900.00	0.0041	5.21	9.07	16.83	10.50	16.83	10.50
VANO 7	37.20	39.00	1023.67	226.30	1330.81	952.93	62.24	15.25	5900.00	0.0041	0.92	8.08	57.94	14.20	5900.00	0.0041	5.40	9.80	16.83	10.50	16.83	10.50
VANO 7	38.40	40.00	1124.25	247.59	1381.16	1038.23	68.36	16.75	5900.00	0.0041	1.01	8.88	63.13	15.47	5900.00	0.0041	5.61	10.54	16.83	10.50	16.83	10.54
VANO 7	38.40	41.00	1124.25	247.59	1381.16	1038.23	68.36	16.75	5900.00	0.0041	1.01	8.88	63.13	15.47	5900.00	0.0041	5.61	10.54	16.83	10.50	16.83	10.54
VANO 7	39.60	42.00	1225.73	269.50	1438.63	1123.42	74.53	18.26	5900.00	0.0041	1.09	9.68	68.31	16.74	5900.00	0.0041	5.84	11.29	16.83	10.50	16.83	11.29
VANO 7	40.80	43.00	1328.09	292.13	1496.14	1208.51	80.75	19.78	5900.00	0.0041	1.19	10.49	73.48	18.00	5900.00	0.0041	6.08	12.04	16.83	10.50	16.83	12.04
VANO 7	42.00	44.00	1431.26	314.99	1557.59	1293.48	87.03	21.32	5900.00	0.0041	1.28	11.30	78.65	19.27	5900.00	0.0041	6.32	12.80	16.83	10.50	16.83	12.80
VANO 7	43.20	45.00	1535.21	338.08	1620.09	1378.33	93.35	22.87	5900.00	0.0041	1.37	12.12	83.81	20.53	5900.00	0.0041	6.58	13.56	16.83	10.50	16.83	13.56
VANO 7	43.20	46.00	1535.21	338.08	1620.09	1378.33	93.35	22.87	5900.00	0.0041	1.37	12.12	83.81	20.53	5900.00	0.0041	6.58	13.56	16.83	10.50	16.83	13.56
VANO 7	44.40	47.00	1639.87	361.39	1684.13	1463.07	99.71	24.43	5900.00	0.0041	1.47	12.95	88.96	21.80	5900.00	0.0041	6.84	14.32	16.83	10.50	16.83	14.32
VANO 7	45.60	48.00	1745.20	384.93	1752.66	1547.68	106.12	26.00	5900.00	0.0041	1.56	13.78	94.11	23.06	5900.00	0.0041	7.11	15.08	16.83	10.50	16.83	15.08
VANO 7	46.80	49.00	1851.13	408.69	1821.18	1632.16	112.56	27.58	5900.00	0.0041	1.66	14.62	99.24	24.31	5900.00	0.0041	7.39	15.85	16.83	10.50	16.83	15.85
VANO 8	0.00	1.00	2316.53	710.45	2236.17	1719.11	140.86	34.51	5900.00	0.0041	2.88	18.70	104.53	25.61	5900.00	0.0041	9.08	17.34	16.83	10.50	18.70	18.70
VANO 8	1.20	2.00	1801.53	683.29	2161.66	1634.77	109.54	26.84	5900.00	0.0041	2.77	14.81	99.40	24.35	5900.00	0.0041	8.77	16.56	16.83	10.50	16.83	16.56
VANO 8	2.40	3.00	1698.44	656.36	2088.38	1550.30	103.27	25.30	5900.00	0.0041	2.66	13.98	94.27	23.10	5900.00	0.0041	8.48	15.79	16.83	10.50	16.83	15.79
VANO 8	3.60	4.00	1605.64	629.66	2017.62	1465.71	97.63	23.92	5900.00	0.0041	2.56	13.24	89.12	21.83	5900.00	0.0041	8.19	15.01	16.83	10.50	16.83	15.01
VANO 8	4.80	5.00	1513.50	603.18	1947.60	1380.98	92.03	22.55	5900.00	0.0041	2.45	12.50	83.97	20.57	5900.00	0.0041	7.91	14.24	16.83	10.50	16.83	14.24
VANO 8	4.80	6.00	1513.50	603.18	1947.60	1380.98	92.03	22.55	5900.00	0.0041	2.45	12.50	83.97	20.57	5900.00	0.0041	7.91	14.24	16.83	10.50	16.83	14.24
VANO 8	6.00	7.00	1422.07	576.92	1880.11	1296.14	86.47	21.18	5900.00	0.0041	2.34	11.76	78.81	19.31	5900.00	0.0041	7.63	13.47	16.83	10.50	16.83	13.47
VANO 8	7.20	8.00	1331.41	550.89	1814.54	1211.17	80.96	19.83	5900.00	0.0041	2.24	11.04	73.65	18.04	5900.00	0.0041	7.37	12.70	16.83	10.50	16.83	12.70
VANO 8	8.40	9.00	1232.18	525.09	1750.60	1126.10	74.92	18.36	5900.00	0.0041	2.13	10.24	68.47	16.78	5900.00	0.0041	7.11	11.94	16.83	10.50	16.83	11.94
VANO 8	9.60	10.00	1130.68	499.51	1689.20	1040.92	68.75	16.84	5900.00	0.0041	2.03	9.44	63.29	15.51	5900.00	0.0041	6.86	11.18	16.83	10.50	16.83	11.18
VANO 8	9.60	11.00	1130.68	499.51	1689.20	1040.92	68.75	16.84	5900.00	0.0041	2.03	9.44	63.29	15.51	5900.00	0.0041	6.86	11.18	16.83	10.50	16.83	11.18
VANO 8	10.80	12.00	1030.10	474.16	1629.42	955.63	62.64	15.35	5900.00	0.0041	1.92	8.64	58.11	14.24	5900.00	0.0041	6.61	10.43	16.83	10.50	16.83	10.50
VANO 8	12.00	13.00	930.46	449.04	1571.57	870.26	56.58	13.86	5900.00	0.0041	1.82	7.84	52.92	12.96	5900.00	0.0041	6.38	9.67	16.83	10.50	16.83	10.50
VANO 8	13.20	14.00	831.83	424.14	1515.65	784.79	50.58	12.39	5900.00	0.0041	1.72	7.06	47.72	11.69	5900.00	0.0041	6.15	8.92	16.83	10.50	16.83	10.50
VANO 8	14.40	15.00	734.22	399.46	1461.68	699.25	44.64	10.94	5900.00	0.0041	1.62	6.28	42.52	10.42	5900.00	0.0041	5.93	8.18	16.83	10.50	16.83	10.50
VANO 8	14.40	16.00	717.28	399.46	1461.68	682.30	43.61	10.69	5900.00	0.0041	1.62	6.15	41.49	10.16	5900.00	0.0041	5.93	8.05	16.83	10.50	16.83	10.50
VANO 8	15.60	17.00	620.74	375.01	1409.60	596.69	37.74	9.25	5900.00	0.0041	1.52	5.38	36.28	8.89	5900.00	0.0041	5.72	7.31	16.83	10.50	16.83	10.50
VANO 8	16.80	18.00	525.30	350.79	1359.47	511.01	31.94	7.83	5900.00	0.0041	1.42	4.62	31.07	7.61	5900.00	0.0041	5.52	6.57	16.83	10.50	16.83	10.50
VANO 8	18.00	19.00	430.99	326.79	1311.27	425.27	26.21	6.42	5900.00	0.0041	1.33	3.87	25.86	6.34	5900.00	0.0041	5.32	5.83	16.83	10.50	16.83	10.50
VANO 8	19.20	20.00	489.77	177.07	1265.10	339.48	29.78	7.30	5900.00	0.0041	0.72	4.01	20.64	5.06	5900.00	0.0041	5.14	5.10	16.83	10.50	16.83	10.50
VANO 8	19.20	21.00	489.77	177.07	1265.10	339.48	29.78	7.30	5900.00	0.0041	0.72	4.01	20.64	5.06	5900.00	0.0041	5.14	5.10	16.83	10.50	16.83	10.50
VANO 8	20.40	22.00	567.43	166.70	1221.03	253.66	34.50	8.45	5900.00	0.0041	0.68	4.56	15.42	3.78	5900.00	0.0041	4.96	4.37	16.83	10.50	16.83	10.50
VANO 8	21.60	23.00	646.40	156.32	1179.13	167.81	39.30	9.63	5900.00	0.0041	0.63	5.13	10.20	2.50	5900.00	0.0041	4.79	3.64	16.83	10.50	16.83	10.50
VANO 8	22.80	24.00	726.69	145.95	1139.43	81.94	44.19	10.83	5900.00	0.0041	0.59	5.71	4.98	1.22	5900.00	0.0041	4.63	2.92	16.83	10.50	16.83	10.50
VANO 8	24.00	25.00	399.83	135.57	1103.91	5.42	24.31	5.96	5900.00	0.0041	0.55	3.25	0.33	0.08	5900.00	0.0041	4.48	2.28	16.83	10.50	16.83	10.50
VANO 8	24.00	26.00	399.83	135.57	1103.91	5.42	24.31	5.96	5900.00	0.0041	0.55	3.25	0.33	0.08	5900.00	0.0041	4.48	2.28	16.83	10.50	16.83	10.50
VANO 8	25.20	27.00	711.62	187.04	1073.32	91.80	43.27	10.60	5900.00	0.0041	0.76	5.68	5.58	1.37	5900.00	0.0041	4.36	2.86	16.83	10.50	16.83	10.50
VANO 8	26.40	28.00	631.31	164.70	1056.73	178.57	38.39	9.40	5900.00	0.0041	0.67	5.04	10.86	2.66	5900.00	0.0041	4.29	3.47	16.83	10.50	16.83	10.50
VANO 8	27.60	29.00	552.32	142.63	1057.93	262.63	33.58	8.23	5900.00	0.0041	0.58	4.40	15.97	3.91	5900.00	0.0041	4.29	4.10	16.83	10.50	16.83	10.50
VANO 8	28.80	30.00	474.65	120.83	1090.93	348.46	28.86	7.07	5900.00	0.0041	0.49	3.78	21.19	5.19	5900.00	0.0041	4.43	4.81	16.83	10.50	16.83	10.50
VANO 8	28.80	31.00	474.65	120.83	1090.93	348.46	28.86	7.07	5900.00	0.0041	0.49	3.78	21.19	5.19	5900.00	0.0041	4.43	4.81	16.83	10.50	16.83	10.50
VANO 8	30.00	32.00	441.60	111.38	1126.11	434.24	26.85	6.58	5900.00	0.0041	0.45	3.52	26.40	6.47	5900.00	0.0041	4.57	5.52	16.83	10.50	16.83	10.50
VANO 8	31.20	33.00	535.90	124.89	1165.23	519.98	32.59	7.98	5900.00	0.0041	0.51	4.25	31.62	7.75	5900.00	0.0041	4.73	6.24	16.83	10.50	16.83	10.50
VANO 8	32.40	34.00	631.32	143.44	1210.67	605.66	38.39	9.40	5900.00	0.0041	0.58	4.99	36.83	9.02	5900.00	0.0041	4.91	6.97	16.83	10.50	16.83	10.50
VANO 8	33.60	35.00	727.84	163.77	1258.01	691.28	44.26	10.84	5900.00	0.0041	0.66	5.75	42.03	10.30	5900.00	0.0041	5.11	7.70	16.83	10.50	16.83	10.50
VANO 8	33.60	36.00	727.84	163.77	1258.01	691.28	44.26	10.84	5900.00	0.0041	0.66	5.75	42.03	10.30	5900.00	0.0041	5.11	7.70	16.83	10.50	16.83	10.50
VANO 8	34.80	37.00	825.43	184.39	1307.83	776.83	50.19	12.30	5900.00	0.0041	0.75	6.52	47.24	11.57	5900.00	0.0041	5.31	8.44	16.83	10.50	16.83	10.50
VANO 8	36.00	38.00	924.05	205.23	1359.71	862.30	56.19	13.77	5900.00	0.0041	0.83	7.30	52.43	12.85	5900.00	0.0041	5.52	9.18	16.83	10.50	16.83	10.50
VANO 8	37.20	39.00	1023.67	226.30	1413.43	947.68	62.24	15.25	5900.00	0.0041	0.92	8.08	57.62	14.12	5900.00	0.0041	5.74	9.93	16.83	10.50	16.83	10.50
VANO 8	38.40	40.00	1124.25	247.59	1469.21	1032.97	68.36	16.75	5900.00	0.0041	1.01	8.88	62.81	15.39	5900.00	0.0041	5.96	10.68	16.83	10.50	16.83	10.68
VANO 8	38.40	41.00	1124.25	247.59	1469.21	1032.97	68.36	16.75	5900.00	0.0041	1.01	8.88	62.81	15.39	5900.00	0.0041	5.96	10.68	16.83	10.50	16.83	10.68
VANO 8	39.60	42.00	1225.73	269.50	1526.9	1118.15	74.53	18.26	5900.00	0.0041	1.09	9.68	67.99	16.66	5900.00	0.0041	6.20	11.43	16.83	10.50	16.83	11.43
VANO 8	40.80	43.00	1328.09	292.13	1586.86	1203.23	80.75	19.78	5900.00	0.0041	1.19	10.49	73.16	17.92	5900.00	0.0041	6.44	12.18	16.83	10.50	16.83	12.18
VANO 8	42.00	44.00	1431.26	314.99	1651.44	1288.20	87.03	21.32	5900.00	0.0041	1.28	11.30	78.33	19.19	5900.00	0.0041	6.70	12.95	16.83	10.50	16.83	12.95
VANO 8	43.20	45.00	1535.21	338.08	1717.98	1373.05	93.35	22.87	5900.00	0.0041	1.37	12.12	83.49	20.45	5900.00	0.0041	6.97	13.71	16.83	10.50	16.83	13.71
VANO 8	43.20	46.00	1535.21	338.08	1717.98	1373.05	93.35	22.87	5900.00	0.0041	1.37	12.12	83.49	20.45	5900.00	0.0041	6.97	13.71	16.83	10.50	16.83	13.71
VANO 8	44.40	47.00	1639.87	361.39	1786.31	1457.77	99.71	24.43	5900.00	0.0041	1.47	12.95	88.64	21.72	5900.00	0.0041	7.25	14.48	16.83	10.50	16.83	14.48
VANO 8	45.60	48.00	1745.20	384.93	1856.75	1542.38	106.12	26.00	5900.00	0.0041	1.56	13.78	93.78	22.98	5900.00	0.0041	7.54	15.26	16.83	10.50	16.83	15.26
VANO 8	46.80	49.00	1851.13	408.69	1929.04	1626.85	112.56	27.58	5900.00	0.0041	1.66	14.62	98.92	24.24	5900.00	0.0041	7.83	16.03	16.83	10.50	16.83	16.03

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	23.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR JUNTO AL ALMA

CARACT. RASANTE		CARACTERISTICAS TORSOR			
M est (S3)=	1.22	fyd armad =	40816.3	Ae =	20.67
Inercia XX =	20.0	fck (t/m2) =	4081.6	he =	0.25
fyd cercos =	40816	fpk (t/m2) =	190000	ue =	18.55
colg tetha =	1	colg tetha =	1.46	Ap=	0.0342
K rasant =	0.061	Beta comp=	1.44	K tors Tu3 =	1.526
Canto sec=	0.53	K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC — **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** — **ARMADO DEFINITIV**

			Hipótesis max cortante		Hipótesi max torsor		Dos caras					Dos caras					FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	Una cara As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	Una cara As (Rd+Td)	As ext	As int	As ext	As int
VANO 9	0.00	1.00	2316.53	710.45	2078.91	1719.14	140.86	34.51	5900.00	0.0041	2.88	18.70	104.53	25.61	5900.00	0.0041	8.44	17.02	16.83	10.50	18.70	18.70
VANO 9	1.20	2.00	1801.53	683.29	2004.31	1634.80	109.54	26.84	5900.00	0.0041	2.77	14.81	99.40	24.35	5900.00	0.0041	8.14	16.24	16.83	10.50	16.83	16.24
VANO 9	2.40	3.00	1698.44	656.36	1931.53	1550.33	103.27	25.30	5900.00	0.0041	2.66	13.98	94.27	23.10	5900.00	0.0041	7.84	15.47	16.83	10.50	16.83	15.47
VANO 9	3.60	4.00	1605.64	629.66	1860.68	1465.72	97.63	23.92	5900.00	0.0041	2.56	13.24	89.12	21.84	5900.00	0.0041	7.55	14.69	16.83	10.50	16.83	14.69
VANO 9	4.80	5.00	1513.50	603.18	1792.35	1381.00	92.03	22.55	5900.00	0.0041	2.45	12.50	83.97	20.57	5900.00	0.0041	7.27	13.92	16.83	10.50	16.83	13.92
VANO 9	4.80	6.00	1513.50	603.18	1792.35	1381.00	92.03	22.55	5900.00	0.0041	2.45	12.50	83.97	20.57	5900.00	0.0041	7.27	13.92	16.83	10.50	16.83	13.92
VANO 9	6.00	7.00	1422.07	576.92	1725.15	1296.15	86.47	21.18	5900.00	0.0041	2.34	11.76	78.81	19.31	5900.00	0.0041	7.00	13.16	16.83	10.50	16.83	13.16
VANO 9	7.20	8.00	1331.41	550.89	1660.18	1211.18	80.96	19.83	5900.00	0.0041	2.24	11.04	73.65	18.04	5900.00	0.0041	6.74	12.39	16.83	10.50	16.83	12.39
VANO 9	8.40	9.00	1232.18	525.09	1597.13	1126.11	74.92	18.36	5900.00	0.0041	2.13	10.24	68.47	16.78	5900.00	0.0041	6.48	11.63	16.83	10.50	16.83	11.63
VANO 9	9.60	10.00	1130.68	499.51	1536.31	1040.92	68.75	16.84	5900.00	0.0041	2.03	9.44	63.29	15.51	5900.00	0.0041	6.24	10.87	16.83	10.50	16.83	10.87
VANO 9	9.60	11.00	1130.68	499.51	1536.31	1040.92	68.75	16.84	5900.00	0.0041	2.03	9.44	63.29	15.51	5900.00	0.0041	6.24	10.87	16.83	10.50	16.83	10.87
VANO 9	10.80	12.00	1030.10	474.16	1476.32	955.64	62.64	15.35	5900.00	0.0041	1.92	8.64	58.11	14.24	5900.00	0.0041	5.99	10.12	16.83	10.50	16.83	10.50
VANO 9	12.00	13.00	930.46	449.04	1419.56	870.26	56.58	13.86	5900.00	0.0041	1.82	7.84	52.92	12.96	5900.00	0.0041	5.76	9.36	16.83	10.50	16.83	10.50
VANO 9	13.20	14.00	831.83	424.14	1364.22	784.80	50.58	12.39	5900.00	0.0041	1.72	7.06	47.72	11.69	5900.00	0.0041	5.54	8.61	16.83	10.50	16.83	10.50
VANO 9	14.40	15.00	734.22	399.46	1310.90	699.25	44.64	10.94	5900.00	0.0041	1.62	6.28	42.52	10.42	5900.00	0.0041	5.32	7.87	16.83	10.50	16.83	10.50
VANO 9	14.40	16.00	717.28	399.46	1310.30	682.31	43.61	10.69	5900.00	0.0041	1.62	6.15	41.49	10.16	5900.00	0.0041	5.32	7.74	16.83	10.50	16.83	10.50
VANO 9	15.60	17.00	620.74	375.01	1259.32	596.69	37.74	9.25	5900.00	0.0041	1.52	5.38	36.28	8.89	5900.00	0.0041	5.11	7.00	16.83	10.50	16.83	10.50
VANO 9	16.80	18.00	525.30	350.79	1209.93	511.01	31.94	7.83	5900.00	0.0041	1.42	4.62	31.07	7.61	5900.00	0.0041	4.91	6.26	16.83	10.50	16.83	10.50
VANO 9	18.00	19.00	430.99	326.79	1165.35	425.27	26.21	6.42	5900.00	0.0041	1.33	3.87	25.86	6.34	5900.00	0.0041	4.73	5.53	16.83	10.50	16.83	10.50
VANO 9	19.20	20.00	489.77	177.07	1122.79	339.48	29.78	7.30	5900.00	0.0041	0.72	4.01	20.64	5.06	5900.00	0.0041	4.56	4.81	16.83	10.50	16.83	10.50
VANO 9	19.20	21.00	489.77	177.07	1122.79	339.48	29.78	7.30	5900.00	0.0041	0.72	4.01	20.64	5.06	5900.00	0.0041	4.56	4.81	16.83	10.50	16.83	10.50
VANO 9	20.40	22.00	567.43	166.70	1083.34	253.66	34.50	8.45	5900.00	0.0041	0.68	4.56	15.42	3.78	5900.00	0.0041	4.40	4.09	16.83	10.50	16.83	10.50
VANO 9	21.60	23.00	646.40	156.32	1049.31	167.81	39.30	9.63	5900.00	0.0041	0.63	5.13	10.20	2.50	5900.00	0.0041	4.26	3.38	16.83	10.50	16.83	10.50
VANO 9	22.80	24.00	726.69	145.95	1024.34	82.85	44.19	10.83	5900.00	0.0041	0.59	5.71	5.04	1.23	5900.00	0.0041	4.16	2.70	16.83	10.50	16.83	10.50
VANO 9	24.00	25.00	399.83	135.57	1050.35	4.40	24.31	5.96	5900.00	0.0041	0.55	3.25	0.27	0.07	5900.00	0.0041	4.26	2.17	16.83	10.50	16.83	10.50
VANO 9	24.00	26.00	399.83	135.57	1050.35	4.40	24.31	5.96	5900.00	0.0041	0.55	3.25	0.27	0.07	5900.00	0.0041	4.26	2.17	16.83	10.50	16.83	10.50
VANO 9	25.20	27.00	711.62	187.04	1087.37	90.08	43.27	10.60	5900.00	0.0041	0.76	5.68	5.48	1.34	5900.00	0.0041	4.42	2.88	16.83	10.50	16.83	10.50
VANO 9	26.40	28.00	631.31	164.70	1127.32	175.95	38.39	9.40	5900.00	0.0041	0.67	5.04	10.70	2.62	5900.00	0.0041	4.58	3.60	16.83	10.50	16.83	10.50
VANO 9	27.60	29.00	552.32	142.63	1168.70	261.80	33.58	8.23	5900.00	0.0041	0.58	4.40	15.92	3.90	5900.00	0.0041	4.74	4.32	16.83	10.50	16.83	10.50
VANO 9	28.80	30.00	474.65	120.83	1212.32	347.62	28.86	7.07	5900.00	0.0041	0.49	3.78	21.14	5.18	5900.00	0.0041	4.92	5.05	16.83	10.50	16.83	10.50
VANO 9	28.80	31.00	474.65	120.83	1212.32	347.62	28.86	7.07	5900.00	0.0041	0.49	3.78	21.14	5.18	5900.00	0.0041	4.92	5.05	16.83	10.50	16.83	10.50
VANO 9	30.00	32.00	441.60	111.38	1258.37	433.40	26.85	6.58	5900.00	0.0041	0.45	3.52	26.35	6.46	5900.00	0.0041	5.11	5.78	16.83	10.50	16.83	10.50
VANO 9	31.20	33.00	535.90	124.89	1305.35	519.14	32.59	7.98	5900.00	0.0041	0.51	4.25	31.57	7.73	5900.00	0.0041	5.30	6.52	16.83	10.50	16.83	10.50
VANO 9	32.40	34.00	631.32	143.44	1355.36	604.82	38.39	9.40	5900.00	0.0041	0.58	4.99	36.78	9.01	5900.00	0.0041	5.50	7.26	16.83	10.50	16.83	10.50
VANO 9	33.60	35.00	727.84	163.77	1407.39	690.44	44.26	10.84	5900.00	0.0041	0.66	5.75	41.98	10.29	5900.00	0.0041	5.71	8.00	16.83	10.50	16.83	10.50
VANO 9	33.60	36.00	727.84	163.77	1407.39	690.44	44.26	10.84	5900.00	0.0041	0.66	5.75	41.98	10.29	5900.00	0.0041	5.71	8.00	16.83	10.50	16.83	10.50
VANO 9	34.80	37.00	825.43	184.39	1460.76	775.98	50.19	12.30	5900.00	0.0041	0.75	6.52	47.18	11.56	5900.00	0.0041	5.93	8.74	16.83	10.50	16.83	10.50
VANO 9	36.00	38.00	924.05	205.23	1516.15	861.45	56.19	13.77	5900.00	0.0041	0.83	7.30	52.38	12.83	5900.00	0.0041	6.15	9.49	16.83	10.50	16.83	10.50
VANO 9	37.20	39.00	1023.67	226.30	1573.16	946.82	62.24	15.25	5900.00	0.0041	0.92	8.08	57.57	14.11	5900.00	0.0041	6.39	10.25	16.83	10.50	16.83	10.50
VANO 9	38.40	40.00	1124.25	247.59	1633.11	1032.11	68.36	16.75	5900.00	0.0041	1.01	8.88	62.76	15.38	5900.00	0.0041	6.63	11.00	16.83	10.50	16.83	11.00
VANO 9	38.40	41.00	1124.25	247.59	1633.11	1032.11	68.36	16.75	5900.00	0.0041	1.01	8.88	62.76	15.38	5900.00	0.0041	6.63	11.00	16.83	10.50	16.83	11.00
VANO 9	39.60	42.00	1225.73	269.50	1694.38	1117.29	74.53	18.26	5900.00	0.0041	1.09	9.68	67.94	16.64	5900.00	0.0041	6.88	11.76	16.83	10.50	16.83	11.76
VANO 9	40.80	43.00	1328.09	292.13	1757.38	1202.36	80.75	19.78	5900.00	0.0041	1.19	10.49	73.11	17.91	5900.00	0.0041	7.13	12.52	16.83	10.50	16.83	12.52
VANO 9	42.00	44.00	1431.26	314.99	1822.40	1287.33	87.03	21.32	5900.00	0.0041	1.28	11.30	78.28	19.18	5900.00	0.0041	7.40	13.29	16.83	10.50	16.83	13.29
VANO 9	43.20	45.00	1535.21	338.08	1889.66	1372.17	93.35	22.87	5900.00	0.0041	1.37	12.12	83.44	20.44	5900.00	0.0041	7.67	14.06	16.83	10.50	16.83	14.06
VANO 9	43.20	46.00	1535.21	338.08	1889.66	1372.17	93.35	22.87	5900.00	0.0041	1.37	12.12	83.44	20.44	5900.00	0.0041	7.67	14.06	16.83	10.50	16.83	14.06
VANO 9	44.40	47.00	1639.87	361.39	1958.64	1456.90	99.71	24.43	5900.00	0.0041	1.47	12.95	88.59	21.70	5900.00	0.0041	7.95	14.83	16.83	10.50	16.83	14.83
VANO 9	45.60	48.00	1745.20	384.93	2029.64	1541.49	106.12	26.00	5900.00	0.0041	1.56	13.78	93.73	22.96	5900.00	0.0041	8.24	15.60	16.83	10.50	16.83	15.60
VANO 9	46.80	49.00	1851.13	408.69	2102.38	1625.96	112.56	27.58	5900.00	0.0041	1.66	14.62	98.87	24.22	5900.00	0.0041	8.53	16.38	16.83	10.50	16.83	16.38
VANO 9	48.00	50.00	1956.13	432.50	2175.11	1710.43	119.07	29.20	5900.00	0.0041	1.76	15.46	104.01	25.48	5900.00	0.0041	8.81	17.16	16.83	10.50	17.16	17.16
VANO 10	0.00	1.00	2316.53	710.45	2116.28	1713.85	140.86	34.51	5900.00	0.0041	2.88	18.70	104.21	25.53	5900.00	0.0041	8.59	17.06	16.83	10.50	18.70	18.70
VANO 10	1.20	2.00	1801.53	683.29	2041.41	1629.51	109.54	26.84	5900.00	0.0041	2.77	14.81	99.08	24.28	5900.00	0.0041	8.29	16.28	16.83	10.50	16.83	16.28
VANO 10	2.40	3.00	1698.44	656.36	1969.25	1545.03	103.27	25.30	5900.00	0.0041	2.66	13.98	93.95	23.02	5900.00	0.0041	7.99	15.51	16.83	10.50	16.83	15.51
VANO 10	3.60	4.00	1605.64	629.66	1898.11	1460.43	97.63	23.92	5900.00	0.0041	2.56	13.24	88.80	21.76	5900.00	0.0041	7.71	14.73	16.83	10.50	16.83	14.73
VANO 10	4.80	5.00	1513.50	603.18	1829.19	1375.69	92.03	22.55	5900.00	0.0041	2.45	12.50	83.65	20.49	5900.00	0.0041	7.43	13.96	16.83	10.50	16.83	13.96
VANO 10	4.80	6.00	1513.50	603.18	1829.19	1375.69	92.03	22.55	5900.00	0.0041	2.45	12.50	83.65	20.49	5900.00	0.0041	7.43	13.96	16.83	10.50	16.83	13.96
VANO 10	6.00	7.00	1422.07	576.92	1763.19	1290.84	86.47	21.18	5900.00	0.0041	2.34	11.76	78.49	19.23	5900.00	0.0041	7.16	13.19	16.83	10.50	16.83	13.19
VANO 10	7.20	8.00	1331.41	550.89	1698.20	1205.87	80.96	19.83	5900.00	0.0041	2.24	11.04	73.32	17.96	5900.00	0.0041	6.89	12.43	16.83	10.50	16.83	12.43
VANO 10	8.40	9.00	1232.18	525.09	1635.24	1120.78	74.92	18.36	5900.00	0.0041	2.13	10.24	68.15	16.70	5900.00	0.0041	6.64	11.67	16.83	10.50	16.83	11.67
VANO 10	9.60	10.00	1130.68	499.51	1574.19	1035.59	68.75	16.84	5900.00	0.0041	2.03	9.44	62.97	15.43	5900.00	0.0041	6.39	10.91	16.83	10.50	16.83	10.91
VANO 10	9.60	11.00	1130.68	499.51	1574.19	1035.59	68.75	16.84	5900.00	0.0041	2.03	9.44	62.97	15.43	5900.00	0.0041	6.39	10.91	16.83	10.50	16.83	10.91
VANO 10	10.80	12.00	1030.10	474.16	1515.66	950.30	62.64	15.35	5900.00	0.0041	1.92	8.64	57.78	14.16	5900.00	0.0041	6.15	10.15	16.83	10.50	16.83	10.50
VANO 10	12.00	13.00	930.46	449.04	1457.65	864.92	56.58	13.86	5900.00	0.0041	1.82	7.84	52.59	12.88	5900.00	0.0041	5.92	9.40	16.83	10.50	16.83	10.50
VANO 10	13.20	14.00	831.83	424.14	1402.16	779.44	50.58	12.39	5900.00	0.0041	1.72	7.06	47.39	11.61	5900.00	0.0041	5.69	8.65	16.83	10.50	16.83	10.50
VANO 10	14.40	15.00	734.22	399.46	1349.19	693.89	44.64	10.94	5900.00	0.0041	1.62	6.28	42.19	10.34	5900.00	0.0041	5.48	7.91	16.83	10.50	16.83	10.50
VANO 10	14.40	16.00	717.28	399.46	1349.19	676.95	43.61	10.69	5900.00	0.0041	1.62	6.15	41.16	10.08	5900.00	0.0041	5.48	7.78	16.83	10.50	16.83	10.50
VANO 10	15.60	17.00	620.74	375.01	1297.13	591.32	37.74	9.25	5900.00	0.0041	1.52	5.38	35.96	8.81	5900.00	0.0041	5.27	7.04	16.83	10.50	16.83	10.50
VANO 10	16.80	18.00	525.30	350.79	1248.46	505.63	31.94	7.83	5900.00	0.0041	1.42	4.62	30.74	7.53	5900.00	0.0041	5.07	6.30	16.83	10.50	16.83	10.50
VANO 10	18.00	19.00	430.99	326.79	1203.10	419.89	26.21	6.42	5900.00	0.0041	1.33	3.87	25.53	6.26	5900.00	0.0041	4.89	5.57	16.83	10.50	16.83	10.50
VANO 10	19.20	20.00	489.77	177.07	1161.17	334.10	29.78	7.30	5900.00	0.0041	0.72	4.01	20.31	4.98	5900.00	0.0041	4.71	4.85	16.83	10.50	16.83	10.50
VANO 10	19.20	21.00	489.77	177.07	1161.17	334.10	29.78	7.30	5900.00	0.0041	0.72	4.01	20.31	4.98	5900.00	0.0041	4.71	4.85	16.83	10.50	16.83	10.50
VANO 10	20.40	22.00	567.43	166.70	1120.62	248.27	34.50	8.45	5900.00	0.0041	0.68	4.56	15.10	3.70	5900.00	0.0041	4.55	4.12	16.83	10.50	16.83	10.50
VANO 10	21.60	23.00	646.40	156.32	1085.17	162.41	39.30	9.63	5900.00	0.0041	0.63	5.13	9.88	2.42	5900.00	0.0041	4.40	3.41	16.83	10.50	16.83	10.50
VANO 10	22.80	24.00	726.69	145.95	1056.79	77.40	44.19	10.83	5900.00	0.0041	0.59	5.71	4.71	1.15	5900.00	0.0041	4.29	2.72	16.83	10.50	16.83	10.50
VANO 10	24.00	25.00	399.83	135.57	1081.32	9.42	24.31	5.96	5900.00	0.0041	0.55	3.25	0.57	0.14	5900.00	0.0041	4.39	2.26	16.83	10.50	16.83	10.50
VANO 10	24.00	26.00	399.83	135.57	1081.32	9.42	24.31	5.96	5900.00	0.0041	0.55	3.25	0.57	0.14	5900.00	0.0041	4.39	2.26	16.83	10.50	16.83	10.50
VANO 10	25.20	27.00	711.62	187.04	1118.21	95.30	43.27	10.60	5900.00	0.0041	0.76	5.68	5.79	1.42	5900.00	0.0041	4.54	2.98	16.83	10.50	16.83	10.50
VANO 10	26.40	28.00	631.31	164.70	1157.44	181.18	38.39	9.40	5900.00	0.0041	0.67	5.04	11.02	2.70	5900.00	0.0041	4.70	3.70	16.83	10.50	16.83	10.50
VANO 10	27.60	29.00	552.32	142.63	1198.68	267.03	33.58	8.23	5900.00	0.0041	0.58	4.40	16.24	3.98	5900.00	0.0041	4.87	4.42	16.83	10.50	16.83	10.50
VANO 10	28.80	30.00	474.65	120.83	1242.05	352.86	28.86	7.07	5900.00	0.0041	0.49	3.78	21.46	5.26	5900.00	0.0041	5.04	5.15	16.83	10.50	16.83	10.50
VANO 10	28.80	31.00	474.65	120.83	1242.05	352.86	28.86	7.07	5900.00	0.0041	0.49	3.78	21.46	5.26	5900.00	0.0041	5.04	5.15	16.83	10.50	16.83	10.50
VANO 10	30.00	32.00	441.60	111.38	1287.55	438.65	26.85	6.58	5900.00	0.0041	0.45	3.52	26.67	6.53	5900.00	0.0041	5.23	5.88	16.83	10.50	16.83	10.50
VANO 10	31.20	33.00	535.90	124.89	1335.06	524.39	32.59	7.98	5900.00	0.0041	0.51	4.25	31.89	7.81	5900.00	0.0041	5.42	6.62	16.83	10.50	16.83	10.50
VANO 10	32.40	34.00	631.32	143.44	1384.50	610.08	38.39	9.40	5900.00	0.0041	0.58	4.89	37.10	9.09	5900.00	0.0041	5.62	7.35	16.83	10.50	16.83	10.50
VANO 10	33.60	35.00	727.84	163.77	1435.85	695.70	44.26	10.84	5900.00	0.0041	0.66	5.75	42.30	10.36	5900.00	0.0041	5.83	8.10	16.83	10.50	16.83	10.50
VANO 10	33.60	36.00	727.84	163.77	1435.85	695.70	44.26	10.84	5900.00	0.0041	0.66	5.75	42.30	10.36	5900.00	0.0041	5.83	8.10	16.83	10.50	16.83	10.50
VANO 10	34.80	37.00	825.43	184.39	1489.12	781.25	50.19	12.30	5900.00	0.0041	0.75	6.52	47.50	11.64	5900.00	0.0041	6.04	8.84	16.83	10.50	16.83	10.50
VANO 10	36.00	38.00	924.05	205.23	1544.31	866.72	56.19	13.77	5900.00	0.0041	0.83	7.30	52.70	12.91	5900.00	0.0041	6.27	9.59	16.83	10.50	16.83	10.50
VANO 10	37.20	39.00	1023.67	226.30	1601.42	952.11	62.24	15.25	5900.00	0.0041	0.92	8.08	57.89	14.18	5900.00	0.0041	6.50	10.34	16.83	10.50	16.83	10.50
VANO 10	38.40	40.00	1124.25	247.59	1660.45	1037.39	68.36	16.75	5900.00	0.0041	1.01	8.88	63.08	15.45	5900.00	0.0041	6.74	11.10	16.83	10.50	16.83	11.10
VANO 10	38.40	41.00	1124.25	247.59	1660.45	1037.39	68.36	16.75	5900.00	0.0041	1.01	8.88	63.08	15.45	5900.00	0.0041	6.74	11.10	16.83	10.50	16.83	11.10
VANO 10	39.60	42.00	1225.73	269.50	1721.43	1122.58	74.53	18.26	5900.00	0.0041	1.09	9.68	68.26	16.72	5900.00	0.0041	6.99	11.86	16.83	10.50	16.83	11.86
VANO 10	40.80	43.00	1328.09	292.13	1784.23	1207.66	80.75	19.78	5900.00	0.0041	1.19	10.49	73.43	17.99	5900.00	0.0041	7.24	12.62	16.83	10.50	16.83	12.62
VANO 10	42.00	44.00	1431.26	314.99	1849.04	1292.63	87.03	21.32	5900.00	0.0041	1.28	11.30	78.60	19.26	5900.00	0.0041	7.51	13.38	16.83	10.50	16.83	13.38
VANO 10	43.20	45.00	1535.21	338.08	1915.75	1377.48	93.35	22.87	5900.00	0.0041	1.37	12.12	83.76	20.52	5900.00	0.0041	7.78	14.15	16.83	10.50	16.83	14.15
VANO 10	43.20	46.00	1535.21	338.08	1915.75	1377.48	93.35	22.87	5900.00	0.0041	1.37	12.12	83.76	20.52	5900.00	0.0041	7.78	14.15	16.83	10.50	16.83	14.15
VANO 10	44.40	47.00	1639.87	361.39	1984.37	1462.20	99.71	24.43	5900.00	0.0041	1.47	12.95	88.91	21.78	5900.00	0.0041	8.05	14.92	16.83	10.50	16.83	14.92
VANO 10	45.60	48.00	1745.20	384.93	2054.91	1546.80	106.12	26.00	5900.00	0.0041	1.56	13.78	94.05	23.04	5900.00	0.0041	8.34	15.69	16.83	10.50	16.83	15.69
VANO 10	46.80	49.00	1851.13	408.69	2127.37	1631.28	112.56	27.58	5900.00	0.0041	1.66	14.62	99.19	24.30	5900.00	0.0041	8.64	16.47	16.83	10.50	16.83	16.47

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzament	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	75%	75%
% PERDIDA	0.16	20%	20%
COEF. SEG	1	1.0	1.0

ARMADO DE LOSA SUPERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S3)=	1.22
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.061
Canto sec=	0.53

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC — **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** — **ARMADO DEFINTIV**

	X	Nudo	Hipótesis max cortante Vd max	Vd con	Hipótesis max torsor Td max	Td con	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	FLEXIÓN TRANS As int	As ext	As int
VANO 11	0.00	1.00	2316.53	710.45	2046.18	1722.87	140.86	34.51	5900.00	0.0041	2.88	18.70	104.76	25.67	5900.00	0.0041	8.31	16.99	16.83	10.50	18.70	18.70
VANO 11	1.20	2.00	1801.53	683.29	1971.67	1638.53	109.54	26.84	5900.00	0.0041	2.77	14.81	99.63	24.41	5900.00	0.0041	8.00	16.21	16.83	10.50	16.83	16.21
VANO 11	2.40	3.00	1698.44	656.36	1899.08	1554.05	103.27	25.30	5900.00	0.0041	2.66	13.98	94.49	23.15	5900.00	0.0041	7.71	15.43	16.83	10.50	16.83	15.43
VANO 11	3.60	4.00	1605.64	629.66	1828.42	1469.45	97.63	23.92	5900.00	0.0041	2.56	13.24	89.35	21.89	5900.00	0.0041	7.42	14.66	16.83	10.50	16.83	14.66
VANO 11	4.80	5.00	1513.50	603.18	1759.69	1384.72	92.03	22.55	5900.00	0.0041	2.45	12.50	84.20	20.63	5900.00	0.0041	7.14	13.89	16.83	10.50	16.83	13.89
VANO 11	4.80	6.00	1513.50	603.18	1759.69	1384.72	92.03	22.55	5900.00	0.0041	2.45	12.50	84.20	20.63	5900.00	0.0041	7.14	13.89	16.83	10.50	16.83	13.89
VANO 11	6.00	7.00	1422.07	576.92	1692.88	1299.87	86.47	21.18	5900.00	0.0041	2.34	11.76	79.04	19.36	5900.00	0.0041	6.87	13.12	16.83	10.50	16.83	13.12
VANO 11	7.20	8.00	1331.41	550.89	1627.99	1214.90	80.96	19.83	5900.00	0.0041	2.24	11.04	73.87	18.10	5900.00	0.0041	6.61	12.35	16.83	10.50	16.83	12.35
VANO 11	8.40	9.00	1232.18	525.09	1565.03	1129.81	74.92	18.36	5900.00	0.0041	2.13	10.24	68.70	16.83	5900.00	0.0041	6.35	11.59	16.83	10.50	16.83	11.59
VANO 11	9.60	10.00	1130.68	499.51	1506.42	1044.63	68.75	16.84	5900.00	0.0041	2.03	9.44	63.52	15.56	5900.00	0.0041	6.11	10.84	16.83	10.50	16.83	10.84
VANO 11	9.60	11.00	1130.68	499.51	1506.42	1044.63	68.75	16.84	5900.00	0.0041	2.03	9.44	63.52	15.56	5900.00	0.0041	6.11	10.84	16.83	10.50	16.83	10.84
VANO 11	10.80	12.00	1030.10	474.16	1450.27	959.34	62.64	15.35	5900.00	0.0041	1.92	8.64	58.33	14.29	5900.00	0.0041	5.89	10.09	16.83	10.50	16.83	10.50
VANO 11	12.00	13.00	930.46	449.04	1396.03	873.95	56.58	13.86	5900.00	0.0041	1.82	7.84	53.14	13.02	5900.00	0.0041	5.67	9.34	16.83	10.50	16.83	10.50
VANO 11	13.20	14.00	831.83	424.14	1343.77	788.48	50.58	12.39	5900.00	0.0041	1.72	7.06	47.94	11.75	5900.00	0.0041	5.45	8.60	16.83	10.50	16.83	10.50
VANO 11	14.40	15.00	734.22	399.46	1293.46	702.93	44.64	10.94	5900.00	0.0041	1.62	6.28	42.74	10.47	5900.00	0.0041	5.25	7.86	16.83	10.50	16.83	10.50
VANO 11	14.40	16.00	717.28	399.46	1293.46	685.99	43.61	10.69	5900.00	0.0041	1.62	6.15	41.71	10.22	5900.00	0.0041	5.25	7.73	16.83	10.50	16.83	10.50
VANO 11	15.60	17.00	620.74	375.01	1245.81	600.36	37.74	9.25	5900.00	0.0041	1.52	5.38	36.50	8.94	5900.00	0.0041	5.06	7.00	16.83	10.50	16.83	10.50
VANO 11	16.80	18.00	525.30	350.79	1200.24	514.67	31.94	7.83	5900.00	0.0041	1.42	4.62	31.29	7.67	5900.00	0.0041	4.87	6.27	16.83	10.50	16.83	10.50
VANO 11	18.00	19.00	430.99	326.79	1159.57	428.93	26.21	6.42	5900.00	0.0041	1.33	3.87	26.08	6.39	5900.00	0.0041	4.71	5.55	16.83	10.50	16.83	10.50
VANO 11	19.20	20.00	489.77	177.07	1124.41	343.13	29.78	7.30	5900.00	0.0041	0.72	4.01	20.86	5.11	5900.00	0.0041	4.56	4.84	16.83	10.50	16.83	10.50
VANO 11	19.20	21.00	489.77	177.07	1124.41	343.13	29.78	7.30	5900.00	0.0041	0.72	4.01	20.86	5.11	5900.00	0.0041	4.56	4.84	16.83	10.50	16.83	10.50
VANO 11	20.40	22.00	567.43	166.70	1091.28	257.31	34.50	8.45	5900.00	0.0041	0.68	4.56	15.65	3.83	5900.00	0.0041	4.43	4.13	16.83	10.50	16.83	10.50
VANO 11	21.60	23.00	646.40	156.32	1072.39	173.29	39.30	9.63	5900.00	0.0041	0.63	5.13	10.54	2.58	5900.00	0.0041	4.35	3.47	16.83	10.50	16.83	10.50
VANO 11	22.80	24.00	726.69	145.95	1088.53	86.52	44.19	10.83	5900.00	0.0041	0.59	5.71	5.26	1.29	5900.00	0.0041	4.42	2.85	16.83	10.50	16.83	10.50
VANO 11	24.00	25.00	399.83	135.57	1119.74	1.70	24.31	5.96	5900.00	0.0041	0.55	3.25	0.10	0.03	5900.00	0.0041	4.55	2.29	16.83	10.50	16.83	10.50
VANO 11	24.00	26.00	399.83	135.57	1119.74	1.70	24.31	5.96	5900.00	0.0041	0.55	3.25	0.10	0.03	5900.00	0.0041	4.55	2.29	16.83	10.50	16.83	10.50
VANO 11	25.20	27.00	711.62	187.04	1156.93	86.22	43.27	10.60	5900.00	0.0041	0.76	5.68	5.24	1.28	5900.00	0.0041	4.70	2.99	16.83	10.50	16.83	10.50
VANO 11	26.40	28.00	631.31	164.70	1196.35	172.09	38.39	9.40	5900.00	0.0041	0.67	5.04	10.46	2.56	5900.00	0.0041	4.86	3.71	16.83	10.50	16.83	10.50
VANO 11	27.60	29.00	552.32	142.63	1237.11	257.95	33.58	8.23	5900.00	0.0041	0.58	4.40	15.68	3.84	5900.00	0.0041	5.02	4.43	16.83	10.50	16.83	10.50
VANO 11	28.80	30.00	474.65	120.83	1280.30	343.78	28.86	7.07	5900.00	0.0041	0.49	3.78	20.90	5.12	5900.00	0.0041	5.20	5.16	16.83	10.50	16.83	10.50
VANO 11	28.80	31.00	474.65	120.83	1280.30	343.78	28.86	7.07	5900.00	0.0041	0.49	3.78	20.90	5.12	5900.00	0.0041	5.20	5.16	16.83	10.50	16.83	10.50
VANO 11	30.00	32.00	441.60	111.38	1326.51	429.57	26.85	6.58	5900.00	0.0041	0.45	3.52	26.12	6.40	5900.00	0.0041	5.38	5.89	16.83	10.50	16.83	10.50
VANO 11	31.20	33.00	535.90	124.89	1374.16	515.32	32.59	7.98	5900.00	0.0041	0.51	4.25	31.33	7.68	5900.00	0.0041	5.58	6.63	16.83	10.50	16.83	10.50
VANO 11	32.40	34.00	631.32	143.44	1423.73	601.01	38.39	9.40	5900.00	0.0041	0.58	4.99	36.54	8.95	5900.00	0.0041	5.78	7.37	16.83	10.50	16.83	10.50
VANO 11	33.60	35.00	727.84	163.77	1475.23	686.63	44.26	10.84	5900.00	0.0041	0.66	5.75	41.75	10.23	5900.00	0.0041	5.99	8.11	16.83	10.50	16.83	10.50
VANO 11	33.60	36.00	727.84	163.77	1475.23	686.63	44.26	10.84	5900.00	0.0041	0.66	5.75	41.75	10.23	5900.00	0.0041	5.99	8.11	16.83	10.50	16.83	10.50
VANO 11	34.80	37.00	625.43	184.39	1528.15	772.18	50.19	12.30	5900.00	0.0041	0.75	6.52	46.95	11.50	5900.00	0.0041	6.21	8.85	16.83	10.50	16.83	10.50
VANO 11	36.00	38.00	924.05	205.23	1584.30	857.66	56.19	13.77	5900.00	0.0041	0.83	7.30	52.15	12.78	5900.00	0.0041	6.43	9.60	16.83	10.50	16.83	10.50
VANO 11	37.20	39.00	1023.67	226.30	1641.17	943.04	62.24	15.25	5900.00	0.0041	0.92	8.08	57.34	14.05	5900.00	0.0041	6.66	10.36	16.83	10.50	16.83	10.50
VANO 11	38.40	40.00	1124.25	247.59	1700.17	1028.33	68.36	16.75	5900.00	0.0041	1.01	8.88	62.53	15.32	5900.00	0.0041	6.90	11.11	16.83	10.50	16.83	10.50
VANO 11	38.40	41.00	1124.25	247.59	1700.17	1028.33	68.36	16.75	5900.00	0.0041	1.01	8.88	62.53	15.32	5900.00	0.0041	6.90	11.11	16.83	10.50	16.83	10.50
VANO 11	39.60	42.00	1225.73	269.50	1761.60	1113.52	74.53	18.26	5900.00	0.0041	1.09	9.68	67.71	16.59	5900.00	0.0041	7.15	11.87	16.83	10.50	16.83	11.87
VANO 11	40.80	43.00	1328.09	292.13	1824.14	1198.60	80.75	19.78	5900.00	0.0041	1.19	10.49	72.88	17.86	5900.00	0.0041	7.41	12.63	16.83	10.50	16.83	12.63
VANO 11	42.00	44.00	1431.26	314.99	1889.12	1283.57	87.03	21.32	5900.00	0.0041	1.28	11.30	78.05	19.12	5900.00	0.0041	7.67	13.40	16.83	10.50	16.83	13.40
VANO 11	43.20	45.00	1535.21	338.08	1956.12	1368.43	93.35	22.87	5900.00	0.0041	1.37	12.12	83.21	20.39	5900.00	0.0041	7.94	14.16	16.83	10.50	16.83	14.16
VANO 11	43.20	46.00	1535.21	338.08	1956.12	1368.43	93.35	22.87	5900.00	0.0041	1.37	12.12	83.21	20.39	5900.00	0.0041	7.94	14.16	16.83	10.50	16.83	14.16
VANO 11	44.40	47.00	1639.87	361.39	2025.14	1453.16	99.71	24.43	5900.00	0.0041	1.47	12.95	88.36	21.65	5900.00	0.0041	8.22	14.93	16.83	10.50	16.83	14.93
VANO 11	45.60	48.00	1745.20	384.93	2096.09	1537.76	106.12	26.00	5900.00	0.0041	1.56	13.78	93.50	22.91	5900.00	0.0041	8.51	15.71	16.83	10.50	16.83	15.71
VANO 11	46.80	49.00	1851.13	408.69	2168.77	1622.24	112.56	27.58	5900.00	0.0041	1.66	14.62	98.64	24.17	5900.00	0.0041	8.80	16.49	16.83	10.50	16.83	16.49
VANO 12	0.00	1.00	2316.53	710.45	2093.30	1716.19	140.86	34.51	5900.00	0.0041	2.88	18.70	104.35	25.57	5900.00	0.0041	8.50	17.03	16.83	10.50	18.70	18.70
VANO 12	1.20	2.00	1801.53	683.29	2018.16	1631.85	109.54	26.84	5900.00	0.0041	2.77	14.81	99.23	24.31	5900.00	0.0041	8.19	16.25	16.83	10.50	16.83	16.25
VANO 12	2.40	3.00	1698.44	656.36	1945.16	1547.38	103.27	25.30	5900.00	0.0041	2.66	13.98	94.09	23.05	5900.00	0.0041	7.90	15.47	16.83	10.50	16.83	15.47
VANO 12	3.60	4.00	1605.64	629.66	1874.10	1462.78	97.63	23.92	5900.00	0.0041	2.56	13.24	88.94	21.79	5900.00	0.0041	7.61	14.70	16.83	10.50	16.83	14.70
VANO 12	4.80	5.00	1513.50	603.18	1804.78	1378.05	92.03	22.55	5900.00	0.0041	2.45	12.50	83.79	20.53	5900.00	0.0041	7.33	13.93	16.83	10.50	16.83	13.93
VANO 12	4.80	6.00	1513.50	603.18	1804.78	1378.05	92.03	22.55	5900.00	0.0041	2.45	12.50	83.79	20.53	5900.00	0.0041	7.33	13.93	16.83	10.50	16.83	13.93
VANO 12	6.00	7.00	1422.07	576.92	1737.10	1293.20	86.47	21.18	5900.00	0.0041	2.34	11.76	78.63	19.27	5900.00	0.0041	7.05	13.16	16.83	10.50	16.83	13.16
VANO 12	7.20	8.00	1331.41	550.89	1672.06	1208.23	80.96	19.83	5900.00	0.0041	2.24	11.04	73.47	18.00	5900.00	0.0041	6.79	12.39	16.83	10.50	16.83	12.39
VANO 12	8.40	9.00	1232.18	525.09	1608.37	1123.15	74.92	18.36	5900.00	0.0041	2.13	10.24	68.29	16.73	5900.00	0.0041	6.53	11.63	16.83	10.50	16.83	11.63
VANO 12	9.60	10.00	1130.68	499.51	1547.31	1037.98	68.75	16.84	5900.00	0.0041	2.03	9.44	63.11	15.46	5900.00	0.0041	6.28	10.87	16.83	10.50	16.83	10.87
VANO 12	9.60	11.00	1130.68	499.51	1547.31	1037.98	68.75	16.84	5900.00	0.0041	2.03	9.44	63.11	15.46	5900.00	0.0041	6.28	10.87	16.83	10.50	16.83	10.87
VANO 12	10.80	12.00	1030.10	474.16	1487.10	952.67	62.64	15.35	5900.00	0.0041	1.92	8.64	57.93	14.19	5900.00	0.0041	6.04	10.12	16.83	10.50	16.83	10.50
VANO 12	12.00	13.00	930.46	449.04	1430.22	867.29	56.58	13.86	5900.00	0.0041	1.82	7.84	52.74	12.92	5900.00	0.0041	5.81	9.36	16.83	10.50	16.83	10.50
VANO 12	13.20	14.00	831.83	424.14	1374.59	781.81	50.58	12.39	5900.00	0.0041	1.72	7.06	47.54	11.65	5900.00	0.0041	5.58	8.61	16.83	10.50	16.83	10.50
VANO 12	14.40	15.00	734.22	399.46	1320.50	696.26	44.64	10.94	5900.00	0.0041	1.62	6.28	42.34	10.37	5900.00	0.0041	5.36	7.87	16.83	10.50	16.83	10.50
VANO 12	14.40	16.00	717.28	399.46	1320.50	679.32	43.61	10.69	5900.00	0.0041	1.62	6.15	41.31	10.12	5900.00	0.0041	5.36	7.74	16.83	10.50	16.83	10.50
VANO 12	15.60	17.00	620.74	375.01	1269.15	593.70	37.74	9.25	5900.00	0.0041	1.52	5.38	36.10	8.84	5900.00	0.0041	5.15	7.00	16.83	10.50	16.83	10.50
VANO 12	16.80	18.00	525.30	350.79	1219.24	508.01	31.94	7.83	5900.00	0.0041	1.42	4.62	30.89	7.57	5900.00	0.0041	4.95	6.26	16.83	10.50	16.83	10.50
VANO 12	18.00	19.00	430.99	326.79	1171.47	422.27	26.21	6.42	5900.00	0.0041	1.33	3.87	25.68	6.29	5900.00	0.0041	4.76	5.52	16.83	10.50	16.83	10.50
VANO 12	19.20	20.00	489.77	177.07	1125.64	336.48	29.78	7.30	5900.00	0.0041	0.72	4.01	20.46	5.01	5900.00	0.0041	4.57	4.79	16.83	10.50	16.83	10.50
VANO 12	19.20	21.00	489.77	177.07	1125.64	336.48	29.78	7.30	5900.00	0.0041	0.72	4.01	20.46	5.01	5900.00	0.0041	4.57	4.79	16.83	10.50	16.83	10.50
VANO 12	20.40	22.00	567.43	166.70	1081.57	250.65	34.50	8.45	5900.00	0.0041	0.68	4.56	15.24	3.73	5900.00	0.0041	4.39	4.06	16.83	10.50	16.83	10.50
VANO 12	21.60	23.00	646.40	156.32	1042.69	164.79	39.30	9.63	5900.00	0.0041	0.63	5.13	10.02	2.45	5900.00	0.0041	4.23	3.34	16.83	10.50	16.83	10.50
VANO 12	22.80	24.00	726.69	145.95	1007.26	78.92	44.19	10.83	5900.00	0.0041	0.59	5.71	4.80	1.18	5900.00	0.0041	4.09	2.63	16.83	10.50	16.83	10.50
VANO 12	24.00	25.00	399.83	135.57	1006.77	6.97	24.31	5.96	5900.00	0.0041	0.55	3.25	0.42	0.10	5900.00	0.0041	4.09	2.10	16.83	10.50	16.83	10.50
VANO 12	24.00	26.00	399.83	135.57	1006.77	6.97	24.31	5.96	5900.00	0.0041	0.55	3.25	0.42	0.10	5900.00	0.0041	4.09	2.10	16.83	10.50	16.83	10.50
VANO 12	25.20	27.00	711.62	187.04	1043.81	92.85	43.27	10.60	5900.00	0.0041	0.76	5.68	5.65	1.38	5900.00	0.0041	4.24	2.81	16.83	10.50	16.83	10.50
VANO 12	26.40	28.00	631.31	164.70	1082.99	178.73	38.39	9.40	5900.00	0.0041	0.67	5.04	10.87	2.66	5900.00	0.0041	4.40	3.53	16.83	10.50	16.83	10.50
VANO 12	27.60	29.00	552.32	142.63	1124.32	264.58	33.58	8.23	5900.00	0.0041	0.58	4.40	16.09	3.94	5900.00	0.0041	4.56	4.25	16.83	10.50	16.83	10.50
VANO 12	28.80	30.00	474.65	120.83	1167.83	350.41	28.86	7.07	5900.00	0.0041	0.49	3.78	21.31	5.22	5900.00	0.0041	4.74	4.98	16.83	10.50	16.83	10.50
VANO 12	28.80	31.00	474.65	120.83	1167.83	350.41	28.86	7.07	5900.00	0.0041	0.49	3.78	21.31	5.22	5900.00	0.0041	4.74	4.98	16.83	10.50	16.83	10.50
VANO 12	30.00	32.00	441.60	111.38	1213.43	436.20	26.85	6.58	5900.00	0.0041	0.45	3.52	26.52	6.50	5900.00	0.0041	4.93	5.71	16.83	10.50	16.83	10.50
VANO 12	31.20	33.00	535.90	124.89	1261.13	521.94	32.59	7.98	5900.00	0.0041	0.51	4.25	31.74	7.78	5900.00	0.0041	5.12	6.45	16.83	10.50	16.83	10.50
VANO 12	32.40	34.00	631.32	143.44	1310.72	607.63	38.39	9.40	5900.00	0.0041	0.58	4.99	36.95	9.05	5900.00	0.0041	5.32	7.19	16.83	10.50	16.83	10.50
VANO 12	33.60	35.00	727.84	163.77	1362.27	693.25	44.26	10.84	5900.00	0.0041	0.66	5.75	42.15	10.33	5900.00	0.0041	5.53	7.93	16.83	10.50	16.83	10.50
VANO 12	33.60	36.00	727.84	163.77	1362.27	693.25	44.26	10.84	5900.00	0.0041	0.66	5.75	42.15	10.33	5900.00	0.0041	5.53	7.93	16.83	10.50	16.83	10.50
VANO 12	34.80	37.00	625.43	184.39	1415.77	778.80	50.19	12.30	5900.00	0.0041	0.75	6.52	47.35	11.60	5900.00	0.0041	5.75	8.67	16.83	10.50	16.83	10.50
VANO 12	36.00	38.00	924.05	205.23	1471.21	864.27	56.19	13.77	5900.00	0.0041	0.83	7.30	52.55	12.88	5900.00	0.0041	5.97	9.42	16.83	10.50	16.83	10.50
VANO 12	37.20	39.00	1023.67	226.30	1528.53	949.65	62.24	15.25	5900.00	0.0041	0.92	8.08	57.74	14.15	5900.00	0.0041	6.20	10.18	16.83	10.50	16.83	10.50
VANO 12	38.40	40.00	1124.25	247.59	1587.93	1034.94	68.36	16.75	5900.00	0.0041	1.01	8.88	62.93	15.42	5900.00	0.0041	6.45	10.93	16.83	10.50	16.83	10.50
VANO 12	38.40	41.00	1124.25	247.59	1587.93	1034.94	68.36	16.75	5900.00	0.0041	1.01	8.88	62.93	15.42	5900.00	0.0041	6.45	10.93	16.83	10.50	16.83	10.93
VANO 12	39.60	42.00	1225.73	269.50	1649.16	1120.12	74.53	18.26	5900.00	0.0041	1.09	9.68	68.11	16.69	5900.00	0.0041	6.69	11.69	16.83	10.50	16.83	10.93
VANO 12	40.80	43.00	1328.09	292.13	1712.37	1205.20	80.75	19.78	5900.00	0.0041	1.19	10.49	73.28	17.95	5900.00	0.0041	6.95	12.45	16.83	10.50	16.83	11.69
VANO 12	42.00	44.00	1431.26	314.99	1777.58	1290.17	87.03	21.32	5900.00	0.0041	1.28	11.30	78.45	19.22	5900.00	0.0041	7.22	13.22	16.83	10.50	16.83	12.45
VANO 12	43.20	45.00	1535.21	338.08	1844.51	1375.02	93.35	22.87	5900.00	0.0041	1.37	12.12	83.61	20.48	5900.00	0.0041	7.49	13.99	16.83	10.50	16.83	13.22
VANO 12	43.20	46.00	1535.21	338.08	1844.51	1375.02	93.35	22.87	5900.00	0.0041	1.37	12.12	83.61	20.48	5900.00	0.0041	7.49	13.99	16.83	10.50	16.83	13.99
VANO 12	44.40	47.00	1639.87	361.39	1913.6	1459.75	99.71	24.43	5900.00	0.0041	1.47	12.95	88.76	21.75	5900.00	0.0041	7.77	14.76	16.83	10.50	16.83	14.76
VANO 12	45.60	48.00	1745.20	384.93	1984.58	1544.35	106.12	26.00	5900.00	0.0041	1.56	13.78	93.90	23.01	5900.00	0.0041	8.06	15.53	16.83	10.50	16.83	15.53
VANO 12	46.80	49.00	1851.13	408.69	2057.48	1628.82	112.56	27.58	5900.00	0.0041	1.66	14.62	99.04	24.26	5900.00	0.0041	8.35	16.31	16.83	10.50	16.83	16.31

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
		14	Variables
Nº TENDON	6	19	19
Nº CORDON	25	23.5	28.5
ROTURA TE	28.5	0.75	75%
% TESADO	0.8	0.2	20%
% PERDIDA	0.16	1	1.0
COEF. SEG	1		

ARMADO DE LOSA SUPERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S3)=	1.22
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.061
Canto sec=	0.53

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 13	0.00	1.00	2316.53	710.45	2174.48	1715.93	140.86	34.51	5900.00	0.0041	2.88	18.70	104.34	25.56	5900.00	0.0041	8.83	17.19	16.83	10.50	18.70	18.70
VANO 13	1.20	2.00	1801.53	683.29	2099.35	1631.58	109.54	26.84	5900.00	0.0041	2.77	14.81	99.21	24.31	5900.00	0.0041	8.52	16.41	16.83	10.50	16.83	16.41
VANO 13	2.40	3.00	1698.44	656.36	2027.14	1547.10	103.27	25.30	5900.00	0.0041	2.66	13.98	94.07	23.05	5900.00	0.0041	8.23	15.64	16.83	10.50	16.83	15.64
VANO 13	3.60	4.00	1605.64	629.66	1956.37	1462.50	97.63	23.92	5900.00	0.0041	2.56	13.24	88.93	21.79	5900.00	0.0041	7.94	14.86	16.83	10.50	16.83	14.86
VANO 13	4.80	5.00	1513.50	603.18	1887.51	1377.76	92.03	22.55	5900.00	0.0041	2.45	12.50	83.77	20.52	5900.00	0.0041	7.66	14.09	16.83	10.50	16.83	14.09
VANO 13	4.80	6.00	1513.50	603.18	1887.51	1377.76	92.03	22.55	5900.00	0.0041	2.45	12.50	83.77	20.52	5900.00	0.0041	7.66	14.09	16.83	10.50	16.83	14.09
VANO 13	6.00	7.00	1422.07	576.92	1820.59	1292.91	86.47	21.18	5900.00	0.0041	2.34	11.76	78.62	19.26	5900.00	0.0041	7.39	13.33	16.83	10.50	16.83	13.33
VANO 13	7.20	8.00	1331.41	550.89	1755.59	1207.93	80.96	19.83	5900.00	0.0041	2.24	11.04	73.45	17.99	5900.00	0.0041	7.13	12.56	16.83	10.50	16.83	12.56
VANO 13	8.40	9.00	1232.18	525.09	1692.52	1122.85	74.92	18.36	5900.00	0.0041	2.13	10.24	68.27	16.73	5900.00	0.0041	6.87	11.80	16.83	10.50	16.83	11.80
VANO 13	9.60	10.00	1130.68	499.51	1631.37	1037.65	68.75	16.84	5900.00	0.0041	2.03	9.44	63.09	15.46	5900.00	0.0041	6.62	11.04	16.83	10.50	16.83	11.04
VANO 13	9.60	11.00	1130.68	499.51	1631.37	1037.65	68.75	16.84	5900.00	0.0041	2.03	9.44	63.09	15.46	5900.00	0.0041	6.62	11.04	16.83	10.50	16.83	11.04
VANO 13	10.80	12.00	1030.10	474.16	1572.15	952.36	62.64	15.35	5900.00	0.0041	1.92	8.64	57.91	14.19	5900.00	0.0041	6.38	10.28	16.83	10.50	16.83	10.50
VANO 13	12.00	13.00	930.46	449.04	1514.45	866.97	56.58	13.86	5900.00	0.0041	1.82	7.84	52.72	12.92	5900.00	0.0041	6.15	9.53	16.83	10.50	16.83	10.50
VANO 13	13.20	14.00	831.83	424.14	1459.49	781.49	50.58	12.39	5900.00	0.0041	1.72	7.06	47.52	11.64	5900.00	0.0041	5.92	8.78	16.83	10.50	16.83	10.50
VANO 13	14.40	15.00	734.22	399.46	1406.34	695.94	44.64	10.94	5900.00	0.0041	1.62	6.28	42.32	10.37	5900.00	0.0041	5.71	8.04	16.83	10.50	16.83	10.50
VANO 13	14.40	16.00	717.28	399.46	1406.34	678.99	43.61	10.69	5900.00	0.0041	1.62	6.15	41.29	10.12	5900.00	0.0041	5.71	7.91	16.83	10.50	16.83	10.50
VANO 13	15.60	17.00	620.74	375.01	1354.53	593.36	37.74	9.25	5900.00	0.0041	1.52	5.38	36.08	8.84	5900.00	0.0041	5.50	7.17	16.83	10.50	16.83	10.50
VANO 13	16.80	18.00	525.30	350.79	1304.34	507.67	31.94	7.83	5900.00	0.0041	1.42	4.62	30.87	7.56	5900.00	0.0041	5.30	6.43	16.83	10.50	16.83	10.50
VANO 13	18.00	19.00	430.99	326.79	1257.27	421.92	26.21	6.42	5900.00	0.0041	1.33	3.87	25.65	6.29	5900.00	0.0041	5.10	5.69	16.83	10.50	16.83	10.50
VANO 13	19.20	20.00	489.77	177.07	1211.14	336.13	29.78	7.30	5900.00	0.0041	0.72	4.01	20.44	5.01	5900.00	0.0041	4.92	4.96	16.83	10.50	16.83	10.50
VANO 13	19.20	21.00	489.77	177.07	1211.14	336.13	29.78	7.30	5900.00	0.0041	0.72	4.01	20.44	5.01	5900.00	0.0041	4.92	4.96	16.83	10.50	16.83	10.50
VANO 13	20.40	22.00	567.43	166.70	1168.13	250.29	34.50	8.45	5900.00	0.0041	0.68	4.56	15.22	3.73	5900.00	0.0041	4.74	4.24	16.83	10.50	16.83	10.50
VANO 13	21.60	23.00	646.40	156.32	1126.77	164.43	39.30	9.63	5900.00	0.0041	0.63	5.13	10.00	2.45	5900.00	0.0041	4.57	3.51	16.83	10.50	16.83	10.50
VANO 13	22.80	24.00	726.69	145.95	1087.13	78.55	44.19	10.83	5900.00	0.0041	0.59	5.71	4.78	1.17	5900.00	0.0041	4.41	2.79	16.83	10.50	16.83	10.50
VANO 13	24.00	25.00	399.83	135.57	1050.13	7.36	24.31	5.96	5900.00	0.0041	0.55	3.25	0.45	0.11	5900.00	0.0041	4.26	2.19	16.83	10.50	16.83	10.50
VANO 13	24.00	26.00	399.83	135.57	1050.13	7.36	24.31	5.96	5900.00	0.0041	0.55	3.25	0.45	0.11	5900.00	0.0041	4.26	2.19	16.83	10.50	16.83	10.50
VANO 13	25.20	27.00	711.62	187.04	1053.10	93.23	43.27	10.60	5900.00	0.0041	0.76	5.68	5.67	1.39	5900.00	0.0041	4.27	2.83	16.83	10.50	16.83	10.50
VANO 13	26.40	28.00	631.31	164.70	1090.14	179.11	38.39	9.40	5900.00	0.0041	0.67	5.04	10.89	2.67	5900.00	0.0041	4.43	3.55	16.83	10.50	16.83	10.50
VANO 13	27.60	29.00	552.32	142.63	1132.14	264.97	33.58	8.23	5900.00	0.0041	0.58	4.40	16.11	3.95	5900.00	0.0041	4.60	4.27	16.83	10.50	16.83	10.50
VANO 13	28.80	30.00	474.65	120.83	1175.17	350.80	28.86	7.07	5900.00	0.0041	0.49	3.78	21.33	5.23	5900.00	0.0041	4.77	5.00	16.83	10.50	16.83	10.50
VANO 13	28.80	31.00	474.65	120.83	1175.47	350.80	28.86	7.07	5900.00	0.0041	0.49	3.78	21.33	5.23	5900.00	0.0041	4.77	5.00	16.83	10.50	16.83	10.50
VANO 13	30.00	32.00	441.60	111.38	1220.14	436.60	26.85	6.58	5900.00	0.0041	0.45	3.52	26.55	6.50	5900.00	0.0041	4.96	5.73	16.83	10.50	16.83	10.50
VANO 13	31.20	33.00	535.90	124.89	1268.43	522.35	32.59	7.98	5900.00	0.0041	0.51	4.25	31.76	7.78	5900.00	0.0041	5.15	6.47	16.83	10.50	16.83	10.50
VANO 13	32.40	34.00	631.32	143.44	1317.86	608.04	38.39	9.40	5900.00	0.0041	0.58	4.99	36.97	9.06	5900.00	0.0041	5.35	7.20	16.83	10.50	16.83	10.50
VANO 13	33.60	35.00	727.84	163.77	1369.20	693.67	44.26	10.84	5900.00	0.0041	0.66	5.75	42.18	10.33	5900.00	0.0041	5.56	7.95	16.83	10.50	16.83	10.50
VANO 13	33.60	36.00	727.84	163.77	1369.20	693.67	44.26	10.84	5900.00	0.0041	0.66	5.75	42.18	10.33	5900.00	0.0041	5.56	7.95	16.83	10.50	16.83	10.50
VANO 13	34.80	37.00	825.43	184.39	1422.48	779.22	50.19	12.30	5900.00	0.0041	0.75	6.52	47.38	11.61	5900.00	0.0041	5.77	8.69	16.83	10.50	16.83	10.50
VANO 13	36.00	38.00	924.05	205.23	1477.68	864.70	56.19	13.77	5900.00	0.0041	0.83	7.30	52.58	12.88	5900.00	0.0041	6.00	9.44	16.83	10.50	16.83	10.50
VANO 13	37.20	39.00	1023.67	226.30	1534.01	950.09	62.24	15.25	5900.00	0.0041	0.92	8.08	57.77	14.15	5900.00	0.0041	6.23	10.19	16.83	10.50	16.83	10.50
VANO 13	38.40	40.00	1124.25	247.59	1593.66	1035.38	68.36	16.75	5900.00	0.0041	1.01	8.88	62.96	15.42	5900.00	0.0041	6.47	10.95	16.83	10.50	16.83	10.95
VANO 13	38.40	41.00	1124.25	247.59	1593.66	1035.38	68.36	16.75	5900.00	0.0041	1.01	8.88	62.96	15.42	5900.00	0.0041	6.47	10.95	16.83	10.50	16.83	10.95
VANO 13	39.60	42.00	1225.73	269.50	1654.84	1120.57	74.53	18.26	5900.00	0.0041	1.09	9.68	68.14	16.69	5900.00	0.0041	6.72	11.71	16.83	10.50	16.83	11.71
VANO 13	40.80	43.00	1328.09	292.13	1717.75	1205.65	80.75	19.78	5900.00	0.0041	1.19	10.49	73.31	17.96	5900.00	0.0041	6.97	12.47	16.83	10.50	16.83	12.47
VANO 13	42.00	44.00	1431.26	314.99	1782.58	1290.62	87.03	21.32	5900.00	0.0041	1.28	11.30	78.48	19.23	5900.00	0.0041	7.24	13.23	16.83	10.50	16.83	13.23
VANO 13	43.20	45.00	1535.21	338.08	1849.74	1375.47	93.35	22.87	5900.00	0.0041	1.37	12.12	83.64	20.49	5900.00	0.0041	7.51	14.00	16.83	10.50	16.83	14.00
VANO 13	43.20	46.00	1535.21	338.08	1849.74	1375.47	93.35	22.87	5900.00	0.0041	1.37	12.12	83.64	20.49	5900.00	0.0041	7.51	14.00	16.83	10.50	16.83	14.00
VANO 13	44.40	47.00	1639.87	361.39	1918.13	1460.21	99.71	24.43	5900.00	0.0041	1.47	12.95	88.79	21.75	5900.00	0.0041	7.79	14.77	16.83	10.50	16.83	14.77
VANO 13	45.60	48.00	1745.20	384.93	1988.64	1544.81	106.12	26.00	5900.00	0.0041	1.56	13.78	93.93	23.01	5900.00	0.0041	8.07	15.54	16.83	10.50	16.83	15.54
VANO 13	46.80	49.00	1851.13	408.69	2061.18	1629.29	112.56	27.58	5900.00	0.0041	1.66	14.62	99.07	24.27	5900.00	0.0041	8.37	16.32	16.83	10.50	16.83	16.32
VANO 14	0.00	1.00	2316.53	710.45	2235.21	1721.92	140.86	34.51	5900.00	0.0041	2.88	18.70	104.70	25.65	5900.00	0.0041	9.07	17.36	16.83	10.50	18.70	18.70
VANO 14	1.20	2.00	1801.53	683.29	2160.26	1637.58	109.54	26.84	5900.00	0.0041	2.77	14.81	99.57	24.40	5900.00	0.0041	8.77	16.58	16.83	10.50	16.83	16.58
VANO 14	2.40	3.00	1698.44	656.36	2087.24	1553.11	103.27	25.30	5900.00	0.0041	2.66	13.98	94.44	23.14	5900.00	0.0041	8.47	15.80	16.83	10.50	16.83	15.80
VANO 14	3.60	4.00	1605.64	629.66	2016.14	1468.51	97.63	23.92	5900.00	0.0041	2.56	13.24	89.29	21.88	5900.00	0.0041	8.18	15.03	16.83	10.50	16.83	15.03
VANO 14	4.80	5.00	1513.50	603.18	1946.17	1383.78	92.03	22.55	5900.00	0.0041	2.45	12.50	84.14	20.61	5900.00	0.0041	7.90	14.26	16.83	10.50	16.83	14.26
VANO 14	4.80	6.00	1513.50	603.18	1946.17	1383.78	92.03	22.55	5900.00	0.0041	2.45	12.50	84.14	20.61	5900.00	0.0041	7.90	14.26	16.83	10.50	16.83	14.26
VANO 14	6.00	7.00	1422.07	576.92	1879.13	1298.93	86.47	21.18	5900.00	0.0041	2.34	11.76	78.98	19.35	5900.00	0.0041	7.63	13.49	16.83	10.50	16.83	13.49
VANO 14	7.20	8.00	1331.41	550.89	1814.42	1213.96	80.96	19.83	5900.00	0.0041	2.24	11.04	73.81	18.08	5900.00	0.0041	7.37	12.72	16.83	10.50	16.83	12.72
VANO 14	8.40	9.00	1232.18	525.09	1751.04	1128.88	74.92	18.36	5900.00	0.0041	2.13	10.24	68.64	16.82	5900.00	0.0041	7.11	11.96	16.83	10.50	16.83	11.96
VANO 14	9.60	10.00	1130.68	499.51	1689.58	1043.69	68.75	16.84	5900.00	0.0041	2.03	9.44	63.46	15.55	5900.00	0.0041	6.86	11.20	16.83	10.50	16.83	11.20
VANO 14	9.60	11.00	1130.68	499.51	1689.58	1043.69	68.75	16.84	5900.00	0.0041	2.03	9.44	63.46	15.55	5900.00	0.0041	6.86	11.20	16.83	10.50	16.83	11.20
VANO 14	10.80	12.00	1030.10	474.16	1630.05	958.40	62.64	15.35	5900.00	0.0041	1.92	8.64	58.28	14.28	5900.00	0.0041	6.62	10.45	16.83	10.50	16.83	10.50
VANO 14	12.00	13.00	930.46	449.04	1572.46	873.01	56.58	13.86	5900.00	0.0041	1.82	7.84	53.08	13.01	5900.00	0.0041	6.38	9.69	16.83	10.50	16.83	10.50
VANO 14	13.20	14.00	831.83	424.14	1516.78	787.54	50.58	12.39	5900.00	0.0041	1.72	7.06	47.89	11.73	5900.00	0.0041	6.16	8.94	16.83	10.50	16.83	10.50
VANO 14	14.40	15.00	734.22	399.46	1463.04	701.99	44.64	10.94	5900.00	0.0041	1.62	6.28	42.68	10.46	5900.00	0.0041	5.94	8.20	16.83	10.50	16.83	10.50
VANO 14	14.40	16.00	717.28	399.46	1463.04	685.05	43.61	10.69	5900.00	0.0041	1.62	6.15	41.65	10.21	5900.00	0.0041	5.94	8.07	16.83	10.50	16.83	10.50
VANO 14	15.60	17.00	620.74	375.01	1411.23	599.42	37.74	9.25	5900.00	0.0041	1.52	5.38	36.45	8.93	5900.00	0.0041	5.73	7.33	16.83	10.50	16.83	10.50
VANO 14	16.80	18.00	525.30	350.79	1361.34	513.73	31.94	7.83	5900.00	0.0041	1.42	4.62	31.24	7.65	5900.00	0.0041	5.53	6.59	16.83	10.50	16.83	10.50
VANO 14	18.00	19.00	430.99	326.79	1313.38	427.98	26.21	6.42	5900.00	0.0041	1.33	3.87	26.02	6.38	5900.00	0.0041	5.33	5.85	16.83	10.50	16.83	10.50
VANO 14	19.20	20.00	489.77	177.07	1267.45	342.19	29.78	7.30	5900.00	0.0041	0.72	4.01	20.81	5.10	5900.00	0.0041	5.14	5.12	16.83	10.50	16.83	10.50
VANO 14	19.20	21.00	489.77	177.07	1267.45	342.19	29.78	7.30	5900.00	0.0041	0.72	4.01	20.81	5.10	5900.00	0.0041	5.14	5.12	16.83	10.50	16.83	10.50
VANO 14	20.40	22.00	567.43	166.70	1223.63	256.36	34.50	8.45	5900.00	0.0041	0.68	4.56	15.59	3.82	5900.00	0.0041	4.97	4.39	16.83	10.50	16.83	10.50
VANO 14	21.60	23.00	646.40	156.32	1182.00	170.50	39.30	9.63	5900.00	0.0041	0.63	5.13	10.37	2.54	5900.00	0.0041	4.80	3.67	16.83	10.50	16.83	10.50
VANO 14	22.80	24.00	726.69	145.95	1142.45	84.63	44.19	10.83	5900.00	0.0041	0.59	5.71	5.15	1.26	5900.00	0.0041	4.64	2.95	16.83	10.50	16.83	10.50
VANO 14	24.00	25.00	399.83	135.57	1105.00	2.42	24.31	5.96	5900.00	0.0041	0.55	3.25	0.15	0.04	5900.00	0.0041	4.49	2.26	16.83	10.50	16.83	10.50
VANO 14	24.00	26.00	399.83	135.57	1105.00	2.42	24.31	5.96	5900.00	0.0041	0.55	3.25	0.15	0.04	5900.00	0.0041	4.49	2.26	16.83	10.50	16.83	10.50
VANO 14	25.20	27.00	711.62	187.04	1077.35	88.01	43.27	10.60	5900.00	0.0041	0.76	5.68	5.35	1.31	5900.00	0.0041	4.37	2.84	16.83	10.50	16.83	10.50
VANO 14	26.40	28.00	631.31	164.70	1069.15	173.03	38.39	9.40	5900.00	0.0041	0.67	5.04	10.52	2.58	5900.00	0.0041	4.34	3.48	16.83	10.50	16.83	10.50
VANO 14	27.60	29.00	552.32	142.63	1100.17	258.89	33.58	8.23	5900.00	0.0041	0.58	4.40	15.74	3.86	5900.00	0.0041	4.47	4.16	16.83	10.50	16.83	10.50
VANO 14	28.80	30.00	474.65	120.83	1139.23	344.72	28.86	7.07	5900.00	0.0041	0.49	3.78	20.96	5.14	5900.00	0.0041	4.62	4.88	16.83	10.50	16.83	10.50
VANO 14	28.80	31.00	474.65	120.83	1139.23	344.72	28.86	7.07	5900.00	0.0041	0.49	3.78	20.96	5.14	5900.00	0.0041	4.62	4.88	16.83	10.50	16.83	10.50
VANO 14	30.00	32.00	441.60	111.38	1181.32	430.51	26.85	6.58	5900.00	0.0041	0.45	3.52	26.18	6.41	5900.00	0.0041	4.80	5.60	16.83	10.50	16.83	10.50
VANO 14	31.20	33.00	535.90	124.89	1225.61	516.26	32.59	7.98	5900.00	0.0041	0.51	4.25	31.39	7.69	5900.00	0.0041	4.98	6.33	16.83	10.50	16.83	10.50
VANO 14	32.40	34.00	631.32	143.44	1271.91	601.95	38.39	9.40	5900.00	0.0041	0.58	4.99	36.60	8.97	5900.00	0.0041	5.16	7.07	16.83	10.50	16.83	10.50
VANO 14	33.60	35.00	727.84	163.77	1320.10	687.58	44.26	10.84	5900.00	0.0041	0.66	5.75	41.81	10.24	5900.00	0.0041	5.36	7.80	16.83	10.50	16.83	10.50
VANO 14	33.60	36.00	727.84	163.77	1320.10	687.58	44.26	10.84	5900.00	0.0041	0.66	5.75	41.81	10.24	5900.00	0.0041	5.36	7.80	16.83	10.50	16.83	10.50
VANO 14	34.80	37.00	825.43	184.39	1371.36	773.13	50.19	12.30	5900.00	0.0041	0.75	6.52	47.01	11.52	5900.00	0.0041	5.57	8.54	16.83	10.50	16.83	10.50
VANO 14	36.00	38.00	924.05	205.23	1428.36	858.61	56.19	13.77	5900.00	0.0041	0.83	7.30	52.21	12.79	5900.00	0.0041	5.79	9.29	16.83	10.50	16.83	10.50
VANO 14	37.20	39.00	1023.67	226.30	1483.23	944.00	62.24	15.25	5900.00	0.0041	0.92	8.08	57.40	14.06	5900.00	0.0041	6.02	10.04	16.83	10.50	16.83	10.50
VANO 14	38.40	40.00	1124.25	247.59	1542.16	1029.29	68.36	16.75	5900.00	0.0041	1.01	8.88	62.59	15.33	5900.00	0.0041	6.26	10.80	16.83	10.50	16.83	10.80
VANO 14	38.40	41.00	1124.25	247.59	1542.16	1029.29	68.36	16.75	5900.00	0.0041	1.01	8.88	62.59	15.33	5900.00	0.0041	6.26	10.80	16.83	10.50	16.83	10.80
VANO 14	39.60	42.00	1225.73	269.50	1602.91	1114.48	74.53	18.26	5900.00	0.0041	1.09	9.68	67.77	16.60	5900.00	0.0041	6.51	11.55	16.83	10.50	16.83	11.55
VANO 14	40.80	43.00	1328.09	292.13	1665.68	1199.57	80.75	19.78	5900.00	0.0041	1.19	10.49	72.94	17.87	5900.00	0.0041	6.76	12.32	16.83	10.50	16.83	12.32
VANO 14	42.00	44.00	1431.26	314.99	1730.33	1284.54	87.03	21.32	5900.00	0.0041	1.28	11.30	78.11	19.14	5900.00	0.0041	7.02	13.08	16.83	10.50	16.83	13.08
VANO 14	43.20	45.00	1535.21	338.08	1796.99	1369.40	93.35	22.87	5900.00	0.0041	1.37	12.12	83.27	20.40	5900.00	0.0041	7.29	13.85	16.83	10.50	16.83	13.85
VANO 14	43.20	46.00	1535.21	338.08	1796.99	1369.40	93.35	22.87	5900.00	0.0041	1.37	12.12	83.27	20.40	5900.00	0.0041	7.29	13.85	16.83	10.50	16.83	13.85
VANO 14	44.40	47.00	1639.87	361.39	1865.41	1454.13	99.71	24.43	5900.00	0.0041	1.47	12.95	88.42	21.66	5900.00	0.0041	7.57	14.62	16.83	10.50	16.83	14.62
VANO 14	45.60	48.00	1745.20	384.93	1935.85	1538.74	106.12	26.00	5900.00	0.0041	1.56	13.78	93.56	22.92	5900.00	0.0041	7.86	15.39	16.83	10.50	16.83	15.39
VANO 14	46.80	49.00	1851.13	408.69	2008.21	1623.22	112.56	27.58	5900.00	0.0041	1.66	14.62	98.70	24.18	5900.00	0.0041	8.15	16.17	16.83	10.50	16.83	16.17

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	75%	75%
% PERDIDA	0.16	20%	20%
COEF. SEG	1	1.0	1.0

ARMADO DE LOSA SUPERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S3)=	1.22
Inercia XX =	20.0
fyd cercos =	40816
colg tetha =	1
K rasant =	0.061
Canto sec=	0.53

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	16.55
colg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC | **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** | **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótes s max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 15	0.00	1.00	2316.53	710.45	2323.20	1715.51	140.86	34.51	5900.00	0.0041	2.88	18.70	104.31	25.56	5900.00	0.0041	9.43	17.49	16.83	10.50	18.70	18.70
VANO 15	1.20	2.00	1801.53	683.29	2247.92	1631.17	109.54	26.84	5900.00	0.0041	2.77	14.61	99.18	24.30	5900.00	0.0041	9.12	16.71	16.83	10.50	16.83	16.71
VANO 15	2.40	3.00	1698.44	656.36	2174.57	1546.70	103.27	25.30	5900.00	0.0041	2.66	13.98	94.05	23.04	5900.00	0.0041	8.83	15.93	16.83	10.50	16.83	15.93
VANO 15	3.60	4.00	1605.64	629.66	2103.15	1462.10	97.63	23.92	5900.00	0.0041	2.56	13.24	88.90	21.78	5900.00	0.0041	8.54	15.16	16.83	10.50	16.83	15.16
VANO 15	4.80	5.00	1513.50	603.18	2033.65	1377.38	92.03	22.55	5900.00	0.0041	2.45	12.50	83.75	20.52	5900.00	0.0041	8.26	14.39	16.83	10.50	16.83	14.39
VANO 15	4.80	6.00	1513.50	603.18	2033.65	1377.38	92.03	22.55	5900.00	0.0041	2.45	12.50	83.75	20.52	5900.00	0.0041	8.26	14.39	16.83	10.50	16.83	14.39
VANO 15	6.00	7.00	1422.07	576.92	1966.08	1292.53	86.47	21.18	5900.00	0.0041	2.34	11.76	78.59	19.26	5900.00	0.0041	7.98	13.62	16.83	10.50	16.83	13.62
VANO 15	7.20	8.00	1331.41	550.89	1900.44	1207.57	80.96	19.83	5900.00	0.0041	2.24	11.04	73.43	17.99	5900.00	0.0041	7.71	12.85	16.83	10.50	16.83	12.85
VANO 15	8.40	9.00	1232.18	525.09	1836.73	1122.49	74.92	18.36	5900.00	0.0041	2.13	10.24	68.25	16.72	5900.00	0.0041	7.46	12.09	16.83	10.50	16.83	12.09
VANO 15	9.60	10.00	1130.68	499.51	1774.94	1037.30	68.75	16.84	5900.00	0.0041	2.03	9.44	63.07	15.45	5900.00	0.0041	7.20	11.33	16.83	10.50	16.83	11.33
VANO 15	9.60	11.00	1130.68	499.51	1774.94	1037.30	68.75	16.84	5900.00	0.0041	2.03	9.44	63.07	15.45	5900.00	0.0041	7.20	11.33	16.83	10.50	16.83	11.33
VANO 15	10.80	12.00	1030.10	474.16	1715.08	952.02	62.64	15.35	5900.00	0.0041	1.92	8.64	57.89	14.18	5900.00	0.0041	6.96	10.57	16.83	10.50	16.83	10.57
VANO 15	12.00	13.00	930.46	449.04	1657.14	866.64	56.58	13.86	5900.00	0.0041	1.82	7.84	52.70	12.91	5900.00	0.0041	6.73	9.82	16.83	10.50	16.83	10.50
VANO 15	13.20	14.00	831.83	424.14	1601.13	781.17	50.58	12.39	5900.00	0.0041	1.72	7.06	47.50	11.64	5900.00	0.0041	6.50	9.07	16.83	10.50	16.83	10.50
VANO 15	14.40	15.00	734.22	399.46	1547.05	695.63	44.64	10.94	5900.00	0.0041	1.62	6.28	42.30	10.36	5900.00	0.0041	6.28	8.32	16.83	10.50	16.83	10.50
VANO 15	14.40	16.00	717.28	399.46	1547.05	678.68	43.61	10.69	5900.00	0.0041	1.62	6.15	41.27	10.11	5900.00	0.0041	6.28	8.20	16.83	10.50	16.83	10.50
VANO 15	15.60	17.00	620.74	375.01	1494.90	593.06	37.74	9.25	5900.00	0.0041	1.52	5.38	36.06	8.83	5900.00	0.0041	6.07	7.45	16.83	10.50	16.83	10.50
VANO 15	16.80	18.00	525.30	350.79	1444.67	507.38	31.94	7.83	5900.00	0.0041	1.42	4.62	30.85	7.56	5900.00	0.0041	5.86	6.71	16.83	10.50	16.83	10.50
VANO 15	18.00	19.00	430.99	326.79	1396.37	421.64	26.21	6.42	5900.00	0.0041	1.33	3.87	25.64	6.28	5900.00	0.0041	5.67	5.97	16.83	10.50	16.83	10.50
VANO 15	19.20	20.00	489.77	177.07	1350.10	335.85	29.78	7.30	5900.00	0.0041	0.72	4.01	20.42	5.00	5900.00	0.0041	5.48	5.24	16.83	10.50	16.83	10.50
VANO 15	19.20	21.00	489.77	177.07	1350.10	335.85	29.78	7.30	5900.00	0.0041	0.72	4.01	20.42	5.00	5900.00	0.0041	5.48	5.24	16.83	10.50	16.83	10.50
VANO 15	20.40	22.00	567.43	166.70	1305.97	250.03	34.50	8.45	5900.00	0.0041	0.68	4.56	15.20	3.72	5900.00	0.0041	5.30	4.51	16.83	10.50	16.83	10.50
VANO 15	21.60	23.00	646.40	156.32	1263.97	164.17	39.30	9.63	5900.00	0.0041	0.63	5.13	9.98	2.45	5900.00	0.0041	5.13	3.79	16.83	10.50	16.83	10.50
VANO 15	22.80	24.00	726.69	145.95	1224.10	78.30	44.19	10.83	5900.00	0.0041	0.59	5.71	4.76	1.17	5900.00	0.0041	4.97	3.07	16.83	10.50	16.83	10.50
VANO 15	24.00	25.00	399.83	135.57	1186.36	7.60	24.31	5.96	5900.00	0.0041	0.55	3.25	0.46	0.11	5900.00	0.0041	4.82	2.46	16.83	10.50	16.83	10.50
VANO 15	24.00	26.00	399.83	135.57	1186.36	7.60	24.31	5.96	5900.00	0.0041	0.55	3.25	0.46	0.11	5900.00	0.0041	4.82	2.46	16.83	10.50	16.83	10.50
VANO 15	25.20	27.00	711.62	187.04	1150.76	94.38	43.27	10.60	5900.00	0.0041	0.76	5.68	5.74	1.41	5900.00	0.0041	4.67	3.04	16.83	10.50	16.83	10.50
VANO 15	26.40	28.00	631.31	164.70	1126.16	181.15	38.39	9.40	5900.00	0.0041	0.67	5.04	11.02	2.70	5900.00	0.0041	4.58	3.64	16.83	10.50	16.83	10.50
VANO 15	27.60	29.00	552.32	142.63	1111.53	267.91	33.58	8.23	5900.00	0.0041	0.58	4.40	16.29	3.99	5900.00	0.0041	4.51	4.25	16.83	10.50	16.83	10.50
VANO 15	28.80	30.00	474.65	120.83	1108.34	351.01	28.86	7.07	5900.00	0.0041	0.49	3.78	21.34	5.23	5900.00	0.0041	4.50	4.87	16.83	10.50	16.83	10.50
VANO 15	28.80	31.00	474.65	120.83	1108.34	351.01	28.86	7.07	5900.00	0.0041	0.49	3.78	21.34	5.23	5900.00	0.0041	4.50	4.87	16.83	10.50	16.83	10.50
VANO 15	30.00	32.00	441.60	111.38	1143.36	436.80	26.85	6.58	5900.00	0.0041	0.45	3.52	26.56	6.51	5900.00	0.0041	4.64	5.58	16.83	10.50	16.83	10.50
VANO 15	31.20	33.00	535.90	124.89	1180.32	522.54	32.59	7.98	5900.00	0.0041	0.51	4.25	31.77	7.78	5900.00	0.0041	4.79	6.29	16.83	10.50	16.83	10.50
VANO 15	32.40	34.00	631.32	143.44	1224.70	608.23	38.39	9.40	5900.00	0.0041	0.58	4.99	36.98	9.06	5900.00	0.0041	4.97	7.02	16.83	10.50	16.83	10.50
VANO 15	33.60	35.00	727.84	163.77	1271.38	693.85	44.26	10.84	5900.00	0.0041	0.66	5.75	42.19	10.34	5900.00	0.0041	5.16	7.75	16.83	10.50	16.83	10.50
VANO 15	33.60	36.00	727.84	163.77	1271.38	693.85	44.26	10.84	5900.00	0.0041	0.66	5.75	42.19	10.34	5900.00	0.0041	5.16	7.75	16.83	10.50	16.83	10.50
VANO 15	34.80	37.00	825.43	184.39	1321.35	779.40	50.19	12.30	5900.00	0.0041	0.75	6.52	47.39	11.61	5900.00	0.0041	5.36	8.49	16.83	10.50	16.83	10.50
VANO 15	36.00	38.00	924.05	205.23	1372.13	864.87	56.19	13.77	5900.00	0.0041	0.83	7.30	52.59	12.88	5900.00	0.0041	5.57	9.23	16.83	10.50	16.83	10.50
VANO 15	37.20	39.00	1023.67	226.30	1425.15	950.25	62.24	15.25	5900.00	0.0041	0.92	8.08	57.78	14.16	5900.00	0.0041	5.79	9.97	16.83	10.50	16.83	10.50
VANO 15	38.40	40.00	1124.25	247.59	1480.19	1035.54	68.36	16.75	5900.00	0.0041	1.01	8.88	62.97	15.43	5900.00	0.0041	6.01	10.72	16.83	10.50	16.83	10.72
VANO 15	38.40	41.00	1124.25	247.59	1480.19	1035.54	68.36	16.75	5900.00	0.0041	1.01	8.88	62.97	15.43	5900.00	0.0041	6.01	10.72	16.83	10.50	16.83	10.72
VANO 15	39.60	42.00	1225.73	269.50	1537.12	1120.73	74.53	18.26	5900.00	0.0041	1.09	9.68	68.15	16.70	5900.00	0.0041	6.24	11.47	16.83	10.50	16.83	11.47
VANO 15	40.80	43.00	1328.09	292.13	1597.11	1205.81	80.75	19.78	5900.00	0.0041	1.19	10.49	73.32	17.96	5900.00	0.0041	6.48	12.22	16.83	10.50	16.83	12.22
VANO 15	42.00	44.00	1431.26	314.99	1658.12	1290.78	87.03	21.32	5900.00	0.0041	1.28	11.30	78.49	19.23	5900.00	0.0041	6.73	12.98	16.83	10.50	16.83	12.98
VANO 15	43.20	45.00	1535.21	338.08	1722.07	1375.63	93.35	22.87	5900.00	0.0041	1.37	12.12	83.65	20.49	5900.00	0.0041	6.99	13.74	16.83	10.50	16.83	13.74
VANO 15	43.20	46.00	1535.21	338.08	1722.07	1375.63	93.35	22.87	5900.00	0.0041	1.37	12.12	83.65	20.49	5900.00	0.0041	6.99	13.74	16.83	10.50	16.83	13.74
VANO 15	44.40	47.00	1639.87	361.39	1787.13	1460.36	99.71	24.43	5900.00	0.0041	1.47	12.95	88.80	21.76	5900.00	0.0041	7.26	14.51	16.83	10.50	16.83	14.51
VANO 15	45.60	48.00	1745.20	384.93	1854.13	1544.96	106.12	26.00	5900.00	0.0041	1.56	13.78	93.94	23.02	5900.00	0.0041	7.53	15.27	16.83	10.50	16.83	15.27
VANO 15	46.80	49.00	1851.13	408.69	1923.65	1629.44	112.56	27.58	5900.00	0.0041	1.66	14.62	99.08	24.27	5900.00	0.0041	7.81	16.04	16.83	10.50	16.83	16.04
VANO 16	0.00	1.00	2316.53	710.45	2288.31	1719.36	140.86	34.51	5900.00	0.0041	2.88	18.70	104.55	25.61	5900.00	0.0041	9.29	17.45	16.83	10.50	18.70	18.70
VANO 16	1.20	2.00	1801.53	683.29	2213.31	1635.02	109.54	26.84	5900.00	0.0041	2.77	14.81	99.42	24.36	5900.00	0.0041	8.99	16.67	16.83	10.50	16.83	16.67
VANO 16	2.40	3.00	1698.44	656.36	2140.03	1550.55	103.27	25.30	5900.00	0.0041	2.66	13.98	94.28	23.10	5900.00	0.0041	8.69	15.89	16.83	10.50	16.83	15.89
VANO 16	3.60	4.00	1605.64	629.66	2069.16	1465.96	97.63	23.92	5900.00	0.0041	2.56	13.24	89.14	21.84	5900.00	0.0041	8.40	15.12	16.83	10.50	16.83	15.12
VANO 16	4.80	5.00	1513.50	603.18	2000.00	1381.23	92.03	22.55	5900.00	0.0041	2.45	12.50	83.99	20.58	5900.00	0.0041	8.12	14.35	16.83	10.50	16.83	14.35
VANO 16	4.80	6.00	1513.50	603.18	2000.00	1381.23	92.03	22.55	5900.00	0.0041	2.45	12.50	83.99	20.58	5900.00	0.0041	8.12	14.35	16.83	10.50	16.83	14.35
VANO 16	6.00	7.00	1422.07	576.92	1933.46	1296.38	86.47	21.18	5900.00	0.0041	2.34	11.76	78.83	19.31	5900.00	0.0041	7.85	13.58	16.83	10.50	16.83	13.58
VANO 16	7.20	8.00	1331.41	550.89	1868.13	1211.42	80.96	19.83	5900.00	0.0041	2.24	11.04	73.66	18.05	5900.00	0.0041	7.58	12.82	16.83	10.50	16.83	12.82
VANO 16	8.40	9.00	1232.18	525.09	1804.51	1126.34	74.92	18.36	5900.00	0.0041	2.13	10.24	68.49	16.78	5900.00	0.0041	7.33	12.05	16.83	10.50	16.83	12.05
VANO 16	9.60	10.00	1130.68	499.51	1743.51	1041.16	68.75	16.84	5900.00	0.0041	2.03	9.44	63.31	15.51	5900.00	0.0041	7.08	11.29	16.83	10.50	16.83	11.29
VANO 16	9.60	11.00	1130.68	499.51	1743.51	1041.16	68.75	16.84	5900.00	0.0041	2.03	9.44	63.31	15.51	5900.00	0.0041	7.08	11.29	16.83	10.50	16.83	11.29
VANO 16	10.80	12.00	1030.10	474.16	1684.02	955.88	62.64	15.35	5900.00	0.0041	1.92	8.64	58.12	14.24	5900.00	0.0041	6.84	10.54	16.83	10.50	16.83	10.54
VANO 16	12.00	13.00	930.46	449.04	1626.44	870.50	56.58	13.86	5900.00	0.0041	1.82	7.84	52.93	12.97	5900.00	0.0041	6.60	9.79	16.83	10.50	16.83	10.50
VANO 16	13.20	14.00	831.83	424.14	1570.78	785.04	50.58	12.39	5900.00	0.0041	1.72	7.06	47.73	11.69	5900.00	0.0041	6.38	9.04	16.83	10.50	16.83	10.50
VANO 16	14.40	15.00	734.22	399.46	1517.04	699.49	44.64	10.94	5900.00	0.0041	1.62	6.28	42.53	10.42	5900.00	0.0041	6.16	8.29	16.83	10.50	16.83	10.50
VANO 16	14.40	16.00	717.28	399.46	1517.04	682.55	43.61	10.69	5900.00	0.0041	1.62	6.15	41.50	10.17	5900.00	0.0041	6.16	8.16	16.83	10.50	16.83	10.50
VANO 16	15.60	17.00	620.74	375.01	1465.20	596.93	37.74	9.25	5900.00	0.0041	1.52	5.38	36.30	8.89	5900.00	0.0041	5.95	7.42	16.83	10.50	16.83	10.50
VANO 16	16.80	18.00	525.30	350.79	1415.28	511.25	31.94	7.83	5900.00	0.0041	1.42	4.62	31.09	7.62	5900.00	0.0041	5.74	6.66	16.83	10.50	16.83	10.50
VANO 16	18.00	19.00	430.99	326.79	1367.27	425.51	26.21	6.42	5900.00	0.0041	1.33	3.87	25.87	6.34	5900.00	0.0041	5.55	5.94	16.83	10.50	16.83	10.50
VANO 16	19.20	20.00	489.77	177.07	1321.23	339.73	29.78	7.30	5900.00	0.0041	0.72	4.01	20.66	5.06	5900.00	0.0041	5.36	5.21	16.83	10.50	16.83	10.50
VANO 16	19.20	21.00	489.77	177.07	1321.23	339.73	29.78	7.30	5900.00	0.0041	0.72	4.01	20.66	5.06	5900.00	0.0041	5.36	5.21	16.83	10.50	16.83	10.50
VANO 16	20.40	22.00	567.43	166.70	1277.41	253.91	34.50	8.45	5900.00	0.0041	0.68	4.56	15.44	3.78	5900.00	0.0041	5.19	4.48	16.83	10.50	16.83	10.50
VANO 16	21.60	23.00	646.40	156.32	1235.63	168.06	39.30	9.63	5900.00	0.0041	0.63	5.13	10.22	2.50	5900.00	0.0041	5.02	3.76	16.83	10.50	16.83	10.50
VANO 16	22.80	24.00	726.69	145.95	1196.02	82.19	44.19	10.83	5900.00	0.0041	0.59	5.71	5.00	1.22	5900.00	0.0041	4.85	3.04	16.83	10.50	16.83	10.50
VANO 16	24.00	25.00	399.83	135.57	1158.51	4.12	24.31	5.96	5900.00	0.0041	0.55	3.25	0.25	0.06	5900.00	0.0041	4.70	2.38	16.83	10.50	16.83	10.50
VANO 16	24.00	26.00	399.83	135.57	1158.51	4.12	24.31	5.96	5900.00	0.0041	0.55	3.25	0.25	0.06	5900.00	0.0041	4.70	2.38	16.83	10.50	16.83	10.50
VANO 16	25.20	27.00	711.62	187.04	1127.24	90.48	43.27	10.60	5900.00	0.0041	0.76	5.68	5.50	1.35	5900.00	0.0041	4.58	2.96	16.83	10.50	16.83	10.50
VANO 16	26.40	28.00	631.31	164.70	1110.73	177.22	38.39	9.40	5900.00	0.0041	0.67	5.04	10.78	2.64	5900.00	0.0041	4.51	3.57	16.83	10.50	16.83	10.50
VANO 16	27.60	29.00	552.32	142.63	1112.91	261.29	33.58	8.23	5900.00	0.0041	0.58	4.40	15.89	3.89	5900.00	0.0041	4.52	4.21	16.83	10.50	16.83	10.50
VANO 16	28.80	30.00	474.65	120.83	1149.42	347.11	28.86	7.07	5900.00	0.0041	0.49	3.78	21.11	5.17	5900.00	0.0041	4.67	4.92	16.83	10.50	16.83	10.50
VANO 16	28.80	31.00	474.65	120.83	1149.42	347.11	28.86	7.07	5900.00	0.0041	0.49	3.78	21.11	5.17	5900.00	0.0041	4.67	4.92	16.83	10.50	16.83	10.50
VANO 16	30.00	32.00	441.60	111.38	1191.03	432.89	26.85	6.58	5900.00	0.0041	0.45	3.52	26.32	6.45	5900.00	0.0041	4.83	5.64	16.83	10.50	16.83	10.50
VANO 16	31.20	33.00	535.90	124.89	1234.63	518.63	32.59	7.98	5900.00	0.0041	0.51	4.25	31.54	7.73	5900.00	0.0041	5.01	6.37	16.83	10.50	16.83	10.50
VANO 16	32.40	34.00	631.32	143.44	1280.21	604.32	38.39	9.40	5900.00	0.0041	0.58	4.99	36.75	9.00	5900.00	0.0041	5.20	7.10	16.83	10.50	16.83	10.50
VANO 16	33.60	35.00	727.84	163.77	1327.7	689.94	44.26	10.84	5900.00	0.0041	0.66	5.75	41.95	10.28	5900.00	0.0041	5.39	7.83	16.83	10.50	16.83	10.50
VANO 16	33.60	36.00	727.84	163.77	1327.7	689.94	44.26	10.84	5900.00	0.0041	0.66	5.75	41.95	10.28	5900.00	0.0041	5.39	7.83	16.83	10.50	16.83	10.50
VANO 16	34.80	37.00	825.43	184.39	1377.43	775.48	50.19	12.30	5900.00	0.0041	0.75	6.52	47.15	11.55	5900.00	0.0041	5.59	8.57	16.83	10.50	16.83	10.50
VANO 16	36.00	38.00	924.05	205.23	1429.32	860.95	56.19	13.77	5900.00	0.0041	0.83	7.30	52.35	12.83	5900.00	0.0041	5.80	9.31	16.83	10.50	16.83	10.50
VANO 16	37.20	39.00	1023.67	226.30	1483.11	946.33	62.24	15.25	5900.00	0.0041	0.92	8.08	57.54	14.10	5900.00	0.0041	6.02	10.06	16.83	10.50	16.83	10.50
VANO 16	38.40	40.00	1124.25	247.59	1538.86	1031.62	68.36	16.75	5900.00	0.0041	1.01	8.88	62.73	15.37	5900.00	0.0041	6.25	10.81	16.83	10.50	16.83	10.50
VANO 16	38.40	41.00	1124.25	247.59	1538.86	1031.62	68.36	16.75	5900.00	0.0041	1.01	8.88	62.73	15.37	5900.00	0.0041	6.25	10.81	16.83	10.50	16.83	10.81
VANO 16	39.60	42.00	1225.73	269.50	1596.46	1116.80	74.53	18.26	5900.00	0.0041	1.09	9.68	67.91	16.64	5900.00	0.0041	6.48	11.56	16.83	10.50	16.83	10.81
VANO 16	40.80	43.00	1328.09	292.13	1656.00	1201.88	80.75	19.78	5900.00	0.0041	1.19	10.49	73.08	17.90	5900.00	0.0041	6.72	12.31	16.83	10.50	16.83	11.56
VANO 16	42.00	44.00	1431.26	314.99	1717.46	1286.85	87.03	21.32	5900.00	0.0041	1.28	11.30	78.25	19.17	5900.00	0.0041	6.97	13.07	16.83	10.50	16.83	12.31
VANO 16	43.20	45.00	1535.21	338.08	1783.23	1371.70	93.35	22.87	5900.00	0.0041	1.37	12.12	83.41	20.43	5900.00	0.0041	7.24	13.84	16.83	10.50	16.83	13.07
VANO 16	43.20	46.00	1535.21	338.08	1783.23	1371.70	93.35	22.87	5900.00	0.0041	1.37	12.12	83.41	20.43	5900.00	0.0041	7.24	13.84	16.83	10.50	16.83	13.84
VANO 16	44.40	47.00	1639.87	361.39	1851.61	1456.43	99.71	24.43	5900.00	0.0041	1.47	12.95	88.56	21.70	5900.00	0.0041	7.52	14.61	16.83	10.50	16.83	14.61
VANO 16	45.60	48.00	1745.20	384.93	1921.91	1541.03	106.12	26.00	5900.00	0.0041	1.56	13.78	93.70	22.96	5900.00	0.0041	7.80	15.38	16.83	10.50	16.83	15.38
VANO 16	46.80	49.00	1851.13	408.69	1994.11	1625.51	112.56	27.58	5900.00	0.0041	1.66	14.62	98.84	24.22	5900.00	0.0041	8.09	16.16	16.83	10.50	16.83	16.16

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 3 PILA
I	20 008	24.9687
ys	1 495	1.754
yi	2 505	2.246

PRETENSA Exterior		Lanzam-ent	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	26.5	26.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S3)=	1.22
Inercia XX =	20.0
fyd cercos =	40816
colg tetha =	1
K rasant =	0.061
Canto sec=	0.53

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
colg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

			Hipótesis max cortante		Hipótesis max torsor		Dos caras					Dos caras				Una cara	FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 17	0.00	1.00	2316.53	710.45	2280.43	1717.77	140.86	34.51	5900.00	0.0041	2.88	18.70	104.45	25.59	5900.00	0.0041	9.26	17.42	16.83	10.50	18.70	18.70
VANO 17	1.20	2.00	1801.53	683.29	2205.69	1633.44	109.54	26.84	5900.00	0.0041	2.77	14.81	99.32	24.33	5900.00	0.0041	8.95	16.64	16.83	10.50	16.83	16.64
VANO 17	2.40	3.00	1698.44	656.36	2132.85	1548.97	103.27	25.30	5900.00	0.0041	2.66	13.98	94.19	23.08	5900.00	0.0041	8.66	15.87	16.83	10.50	16.83	15.87
VANO 17	3.60	4.00	1605.64	629.66	2061.92	1464.37	97.63	23.92	5900.00	0.0041	2.56	13.24	89.04	21.82	5900.00	0.0041	8.37	15.09	16.83	10.50	16.83	15.09
VANO 17	4.80	5.00	1513.50	603.18	1992.90	1379.65	92.03	22.55	5900.00	0.0041	2.45	12.50	83.89	20.55	5900.00	0.0041	8.09	14.32	16.83	10.50	16.83	14.32
VANO 17	4.80	6.00	1513.50	603.18	1992.90	1379.65	92.03	22.55	5900.00	0.0041	2.45	12.50	83.89	20.55	5900.00	0.0041	8.09	14.32	16.83	10.50	16.83	14.32
VANO 17	6.00	7.00	1422.07	576.92	1925.79	1294.80	86.47	21.18	5900.00	0.0041	2.34	11.76	78.73	19.29	5900.00	0.0041	7.82	13.55	16.83	10.50	16.83	13.55
VANO 17	7.20	8.00	1331.41	550.89	1860.59	1209.84	80.96	19.83	5900.00	0.0041	2.24	11.04	73.56	18.02	5900.00	0.0041	7.55	12.79	16.83	10.50	16.83	12.79
VANO 17	8.40	9.00	1232.18	525.09	1797.30	1124.77	74.92	18.36	5900.00	0.0041	2.13	10.24	68.39	16.76	5900.00	0.0041	7.30	12.03	16.83	10.50	16.83	12.03
VANO 17	9.60	10.00	1130.68	499.51	1735.91	1039.59	68.75	16.84	5900.00	0.0041	2.03	9.44	63.21	15.49	5900.00	0.0041	7.05	11.27	16.83	10.50	16.83	11.27
VANO 17	9.60	11.00	1130.68	499.51	1735.91	1039.59	68.75	16.84	5900.00	0.0041	2.03	9.44	63.21	15.49	5900.00	0.0041	7.05	11.27	16.83	10.50	16.83	11.27
VANO 17	10.80	12.00	1030.10	474.16	1676.44	954.31	62.64	15.35	5900.00	0.0041	1.92	8.64	58.03	14.22	5900.00	0.0041	6.81	10.51	16.83	10.50	16.83	10.51
VANO 17	12.00	13.00	930.46	449.04	1618.57	868.93	56.58	13.86	5900.00	0.0041	1.82	7.84	52.84	12.94	5900.00	0.0041	6.57	9.76	16.83	10.50	16.83	10.50
VANO 17	13.20	14.00	831.83	424.14	1563.22	783.47	50.58	12.39	5900.00	0.0041	1.72	7.06	47.64	11.67	5900.00	0.0041	6.35	9.01	16.83	10.50	16.83	10.50
VANO 17	14.40	15.00	734.22	399.46	1509.47	697.93	44.64	10.94	5900.00	0.0041	1.62	6.28	42.44	10.40	5900.00	0.0041	6.13	8.26	16.83	10.50	16.83	10.50
VANO 17	14.40	16.00	717.28	399.46	1509.47	680.99	43.61	10.69	5900.00	0.0041	1.62	6.15	41.41	10.14	5900.00	0.0041	6.13	8.14	16.83	10.50	16.83	10.50
VANO 17	15.60	17.00	620.74	375.01	1457.53	595.37	37.74	9.25	5900.00	0.0041	1.52	5.38	36.20	8.87	5900.00	0.0041	5.92	7.39	16.83	10.50	16.83	10.50
VANO 17	16.80	18.00	525.30	350.79	1407.70	509.69	31.94	7.83	5900.00	0.0041	1.42	4.62	30.99	7.59	5900.00	0.0041	5.71	6.65	16.83	10.50	16.83	10.50
VANO 17	18.00	19.00	430.99	326.79	1359.58	423.96	26.21	6.42	5900.00	0.0041	1.33	3.87	25.78	6.32	5900.00	0.0041	5.52	5.92	16.83	10.50	16.83	10.50
VANO 17	19.20	20.00	489.77	177.07	1313.37	338.18	29.78	7.30	5900.00	0.0041	0.72	4.01	20.56	5.04	5900.00	0.0041	5.33	5.19	16.83	10.50	16.83	10.50
VANO 17	19.20	21.00	489.77	177.07	1313.37	338.18	29.78	7.30	5900.00	0.0041	0.72	4.01	20.56	5.04	5900.00	0.0041	5.33	5.19	16.83	10.50	16.83	10.50
VANO 17	20.40	22.00	567.43	166.70	1269.77	252.36	34.50	8.45	5900.00	0.0041	0.68	4.56	15.34	3.76	5900.00	0.0041	5.15	4.46	16.83	10.50	16.83	10.50
VANO 17	21.60	23.00	646.40	156.32	1227.39	166.51	39.30	9.63	5900.00	0.0041	0.63	5.13	10.12	2.48	5900.00	0.0041	4.98	3.73	16.83	10.50	16.83	10.50
VANO 17	22.80	24.00	726.69	145.95	1188.32	80.65	44.19	10.83	5900.00	0.0041	0.59	5.71	4.90	1.20	5900.00	0.0041	4.82	3.01	16.83	10.50	16.83	10.50
VANO 17	24.00	25.00	399.83	135.57	1150.79	5.23	24.31	5.96	5900.00	0.0041	0.55	3.25	0.32	0.08	5900.00	0.0041	4.67	2.37	16.83	10.50	16.83	10.50
VANO 17	24.00	26.00	399.83	135.57	1150.79	5.23	24.31	5.96	5900.00	0.0041	0.55	3.25	0.32	0.08	5900.00	0.0041	4.67	2.37	16.83	10.50	16.83	10.50
VANO 17	25.20	27.00	711.62	187.04	1123.33	92.00	43.27	10.60	5900.00	0.0041	0.76	5.68	5.59	1.37	5900.00	0.0041	4.56	2.97	16.83	10.50	16.83	10.50
VANO 17	26.40	28.00	631.31	164.70	1106.38	178.76	38.39	9.40	5900.00	0.0041	0.67	5.04	10.87	2.66	5900.00	0.0041	4.49	3.58	16.83	10.50	16.83	10.50
VANO 17	27.60	29.00	552.32	142.63	1126.36	262.81	33.58	8.23	5900.00	0.0041	0.58	4.40	15.98	3.92	5900.00	0.0041	4.57	4.24	16.83	10.50	16.83	10.50
VANO 17	28.80	30.00	474.65	120.83	1159.72	348.63	28.86	7.07	5900.00	0.0041	0.49	3.78	21.20	5.19	5900.00	0.0041	4.71	4.95	16.83	10.50	16.83	10.50
VANO 17	28.80	31.00	474.65	120.83	1159.72	348.63	28.86	7.07	5900.00	0.0041	0.49	3.78	21.20	5.19	5900.00	0.0041	4.71	4.95	16.83	10.50	16.83	10.50
VANO 17	30.00	32.00	441.60	111.38	1199.19	434.41	26.85	6.58	5900.00	0.0041	0.45	3.52	26.41	6.47	5900.00	0.0041	4.87	5.67	16.83	10.50	16.83	10.50
VANO 17	31.20	33.00	535.90	124.89	1243.10	520.14	32.59	7.98	5900.00	0.0041	0.51	4.25	31.63	7.75	5900.00	0.0041	5.05	6.40	16.83	10.50	16.83	10.50
VANO 17	32.40	34.00	631.32	143.44	1288.12	605.82	38.39	9.40	5900.00	0.0041	0.58	4.99	36.84	9.03	5900.00	0.0041	5.23	7.13	16.83	10.50	16.83	10.50
VANO 17	33.60	35.00	727.84	163.77	1336.73	691.44	44.26	10.84	5900.00	0.0041	0.66	5.75	42.04	10.30	5900.00	0.0041	5.43	7.86	16.83	10.50	16.83	10.50
VANO 17	33.60	36.00	727.84	163.77	1336.73	691.44	44.26	10.84	5900.00	0.0041	0.66	5.75	42.04	10.30	5900.00	0.0041	5.43	7.86	16.83	10.50	16.83	10.50
VANO 17	34.80	37.00	825.43	184.39	1386.68	776.98	50.19	12.30	5900.00	0.0041	0.75	6.52	47.24	11.57	5900.00	0.0041	5.63	8.60	16.83	10.50	16.83	10.50
VANO 17	36.00	38.00	924.05	205.23	1438.60	862.45	56.19	13.77	5900.00	0.0041	0.83	7.30	52.44	12.85	5900.00	0.0041	5.84	9.34	16.83	10.50	16.83	10.50
VANO 17	37.20	39.00	1023.67	226.30	1492.74	947.82	62.24	15.25	5900.00	0.0041	0.92	8.08	57.63	14.12	5900.00	0.0041	6.06	10.09	16.83	10.50	16.83	10.50
VANO 17	38.40	40.00	1124.25	247.59	1547.10	1033.11	68.36	16.75	5900.00	0.0041	1.01	8.88	62.82	15.39	5900.00	0.0041	6.28	10.84	16.83	10.50	16.83	10.84
VANO 17	38.40	41.00	1124.25	247.59	1547.10	1033.11	68.36	16.75	5900.00	0.0041	1.01	8.88	62.82	15.39	5900.00	0.0041	6.28	10.84	16.83	10.50	16.83	10.84
VANO 17	39.60	42.00	1225.73	269.50	1607.06	1118.29	74.53	18.26	5900.00	0.0041	1.09	9.68	68.00	16.66	5900.00	0.0041	6.52	11.59	16.83	10.50	16.83	11.59
VANO 17	40.80	43.00	1328.09	292.13	1669.18	1203.36	80.75	19.78	5900.00	0.0041	1.19	10.49	73.17	17.93	5900.00	0.0041	6.78	12.35	16.83	10.50	16.83	12.35
VANO 17	42.00	44.00	1431.26	314.99	1734.10	1288.33	87.03	21.32	5900.00	0.0041	1.28	11.30	78.34	19.19	5900.00	0.0041	7.04	13.12	16.83	10.50	16.83	13.12
VANO 17	43.20	45.00	1535.21	338.08	1800.04	1373.18	93.35	22.87	5900.00	0.0041	1.37	12.12	83.50	20.46	5900.00	0.0041	7.31	13.88	16.83	10.50	16.83	13.88
VANO 17	43.20	46.00	1535.21	338.08	1800.04	1373.18	93.35	22.87	5900.00	0.0041	1.37	12.12	83.50	20.46	5900.00	0.0041	7.31	13.88	16.83	10.50	16.83	13.88
VANO 17	44.40	47.00	1639.87	361.39	1868.58	1457.90	99.71	24.43	5900.00	0.0041	1.47	12.95	88.65	21.72	5900.00	0.0041	7.59	14.65	16.83	10.50	16.83	14.65
VANO 17	45.60	48.00	1745.20	384.93	1939.24	1542.50	106.12	26.00	5900.00	0.0041	1.56	13.78	93.79	22.98	5900.00	0.0041	7.87	15.43	16.83	10.50	16.83	15.43
VANO 17	46.80	49.00	1851.13	408.69	2011.40	1626.97	112.56	27.58	5900.00	0.0041	1.66	14.62	98.83	24.24	5900.00	0.0041	8.16	16.20	16.83	10.50	16.83	16.20
VANO 17	48.00	50.00	1946.15	432.28	2083.17	1711.31	118.97	29.25	5900.00	0.0041	1.75	15.50	104.99	25.76	5900.00	0.0041	8.47	16.98	16.83	10.50	16.83	16.98
VANO 18	0.00	1.00	2316.53	710.45	2247.68	1717.21	140.86	34.51	5900.00	0.0041	2.88	18.70	104.42	25.58	5900.00	0.0041	9.12	17.35	16.83	10.50	18.70	18.70
VANO 18	1.20	2.00	1801.53	683.29	2173.12	1632.87	109.54	26.84	5900.00	0.0041	2.77	14.81	99.29	24.33	5900.00	0.0041	8.82	16.57	16.83	10.50	16.83	16.57
VANO 18	2.40	3.00	1698.44	656.36	2100.46	1548.41	103.27	25.30	5900.00	0.0041	2.66	13.98	94.15	23.07	5900.00	0.0041	8.53	15.80	16.83	10.50	16.83	15.80
VANO 18	3.60	4.00	1605.64	629.66	2029.71	1463.81	97.63	23.92	5900.00	0.0041	2.56	13.24	89.01	21.81	5900.00	0.0041	8.24	15.02	16.83	10.50	16.83	15.02
VANO 18	4.80	5.00	1513.50	603.18	1960.85	1379.08	92.03	22.55	5900.00	0.0041	2.45	12.50	83.86	20.54	5900.00	0.0041	7.96	14.25	16.83	10.50	16.83	14.25
VANO 18	4.80	6.00	1513.50	603.18	1960.85	1379.08	92.03	22.55	5900.00	0.0041	2.45	12.50	83.86	20.54	5900.00	0.0041	7.96	14.25	16.83	10.50	16.83	14.25
VANO 18	6.00	7.00	1422.07	576.92	1893.50	1294.24	86.47	21.18	5900.00	0.0041	2.34	11.76	78.70	19.28	5900.00	0.0041	7.69	13.48	16.83	10.50	16.83	13.48
VANO 18	7.20	8.00	1331.41	550.89	1828.66	1209.28	80.96	19.83	5900.00	0.0041	2.24	11.04	73.53	18.01	5900.00	0.0041	7.42	12.72	16.83	10.50	16.83	12.72
VANO 18	8.40	9.00	1232.18	525.09	1765.71	1124.20	74.92	18.36	5900.00	0.0041	2.13	10.24	68.36	16.75	5900.00	0.0041	7.17	11.96	16.83	10.50	16.83	11.96
VANO 18	9.60	10.00	1130.68	499.51	1704.47	1039.02	68.75	16.84	5900.00	0.0041	2.03	9.44	63.18	15.48	5900.00	0.0041	6.92	11.20	16.83	10.50	16.83	11.20
VANO 18	9.60	11.00	1130.68	499.51	1704.47	1039.02	68.75	16.84	5900.00	0.0041	2.03	9.44	63.18	15.48	5900.00	0.0041	6.92	11.20	16.83	10.50	16.83	11.20
VANO 18	10.80	12.00	1030.10	474.16	1645.13	953.74	62.64	15.35	5900.00	0.0041	1.92	8.64	57.99	14.21	5900.00	0.0041	6.68	10.44	16.83	10.50	16.83	10.50
VANO 18	12.00	13.00	930.46	449.04	1587.70	868.37	56.58	13.86	5900.00	0.0041	1.82	7.84	52.80	12.94	5900.00	0.0041	6.44	9.69	16.83	10.50	16.83	10.50
VANO 18	13.20	14.00	831.83	424.14	1532.17	782.91	50.58	12.39	5900.00	0.0041	1.72	7.06	47.60	11.66	5900.00	0.0041	6.22	8.94	16.83	10.50	16.83	10.50
VANO 18	14.40	15.00	734.22	399.46	1478.54	697.37	44.64	10.94	5900.00	0.0041	1.62	6.28	42.40	10.39	5900.00	0.0041	6.00	8.20	16.83	10.50	16.83	10.50
VANO 18	14.40	16.00	717.28	399.46	1478.54	680.42	43.61	10.69	5900.00	0.0041	1.62	6.15	41.37	10.14	5900.00	0.0041	6.00	8.07	16.83	10.50	16.83	10.50
VANO 18	15.60	17.00	620.74	375.01	1426.81	594.81	37.74	9.25	5900.00	0.0041	1.52	5.38	36.17	8.86	5900.00	0.0041	5.79	7.33	16.83	10.50	16.83	10.50
VANO 18	16.80	18.00	525.30	350.79	1376.93	509.13	31.94	7.83	5900.00	0.0041	1.42	4.62	30.96	7.58	5900.00	0.0041	5.59	6.59	16.83	10.50	16.83	10.50
VANO 18	18.00	19.00	430.99	326.79	1329.03	423.40	26.21	6.42	5900.00	0.0041	1.33	3.87	25.74	6.31	5900.00	0.0041	5.39	5.85	16.83	10.50	16.83	10.50
VANO 18	19.20	20.00	489.77	177.07	1283.13	337.62	29.78	7.30	5900.00	0.0041	0.72	4.01	20.53	5.03	5900.00	0.0041	5.21	5.12	16.83	10.50	16.83	10.50
VANO 18	19.20	21.00	489.77	177.07	1283.13	337.62	29.78	7.30	5900.00	0.0041	0.72	4.01	20.53	5.03	5900.00	0.0041	5.21	5.12	16.83	10.50	16.83	10.50
VANO 18	20.40	22.00	567.43	166.70	1239.33	251.80	34.50	8.45	5900.00	0.0041	0.68	4.56	15.31	3.75	5900.00	0.0041	5.03	4.39	16.83	10.50	16.83	10.50
VANO 18	21.60	23.00	646.40	156.32	1197.61	165.96	39.30	9.63	5900.00	0.0041	0.63	5.13	10.09	2.47	5900.00	0.0041	4.86	3.67	16.83	10.50	16.83	10.50
VANO 18	22.80	24.00	726.69	145.95	1158.01	80.10	44.19	10.83	5900.00	0.0041	0.59	5.71	4.87	1.19	5900.00	0.0041	4.70	2.95	16.83	10.50	16.83	10.50
VANO 18	24.00	25.00	399.83	135.57	1120.54	5.78	24.31	5.96	5900.00	0.0041	0.55	3.25	0.35	0.09	5900.00	0.0041	4.55	2.32	16.83	10.50	16.83	10.50
VANO 18	24.00	26.00	399.83	135.57	1120.54	5.78	24.31	5.96	5900.00	0.0041	0.55	3.25	0.35	0.09	5900.00	0.0041	4.55	2.32	16.83	10.50	16.83	10.50
VANO 18	25.20	27.00	711.62	187.04	1096.81	92.56	43.27	10.60	5900.00	0.0041	0.76	5.68	5.63	1.38	5900.00	0.0041	4.45	2.92	16.83	10.50	16.83	10.50
VANO 18	26.40	28.00	631.31	164.70	1111.62	177.51	38.39	9.40	5900.00	0.0041	0.67	5.04	10.79	2.64	5900.00	0.0041	4.51	3.58	16.83	10.50	16.83	10.50
VANO 18	27.60	29.00	552.32	142.63	1143.11	263.36	33.58	8.23	5900.00	0.0041	0.58	4.40	16.01	3.92	5900.00	0.0041	4.64	4.28	16.83	10.50	16.83	10.50
VANO 18	28.80	30.00	474.65	120.83	1182.62	349.17	28.86	7.07	5900.00	0.0041	0.49	3.78	21.23	5.20	5900.00	0.0041	4.80	5.00	16.83	10.50	16.83	10.50
VANO 18	28.80	31.00	474.65	120.83	1182.62	349.17	28.86	7.07	5900.00	0.0041	0.49	3.78	21.23	5.20	5900.00	0.0041	4.80	5.00	16.83	10.50	16.83	10.50
VANO 18	30.00	32.00	441.60	111.38	1224.62	434.95	26.85	6.58	5900.00	0.0041	0.45	3.52	26.45	6.48	5900.00	0.0041	4.97	5.73	16.83	10.50	16.83	10.50
VANO 18	31.20	33.00	535.90	124.89	1268.84	520.69	32.59	7.98	5900.00	0.0041	0.51	4.25	31.66	7.76	5900.00	0.0041	5.15	6.45	16.83	10.50	16.83	10.50
VANO 18	32.40	34.00	631.32	143.44	1314.96	606.36	38.39	9.40	5900.00	0.0041	0.58	4.99	36.87	9.03	5900.00	0.0041	5.34	7.19	16.83	10.50	16.83	10.50
VANO 18	33.60	35.00	727.84	163.77	1365.87	691.98	44.26	10.84	5900.00	0.0041	0.66	5.75	42.08	10.31	5900.00	0.0041	5.54	7.93	16.83	10.50	16.83	10.50
VANO 18	33.60	36.00	727.84	163.77	1365.87	691.98	44.26	10.84	5900.00	0.0041	0.66	5.75	42.08	10.31	5900.00	0.0041	5.54	7.93	16.83	10.50	16.83	10.50
VANO 18	34.80	37.00	825.43	184.39	1418.94	777.52	50.19	12.30	5900.00	0.0041	0.75	6.52	47.28	11.58	5900.00	0.0041	5.76	8.67	16.83	10.50	16.83	10.50
VANO 18	36.00	38.00	924.05	205.23	1473.91	862.98	56.19	13.77	5900.00	0.0041	0.83	7.30	52.47	12.86	5900.00	0.0041	5.98	9.42	16.83	10.50	16.83	10.50
VANO 18	37.20	39.00	1023.67	226.30	1530.79	948.36	62.24	15.25	5900.00	0.0041	0.92	8.08	57.66	14.13	5900.00	0.0041	6.21	10.17	16.83	10.50	16.83	10.50
VANO 18	38.40	40.00	1124.25	247.59	1589.56	1033.64	68.36	16.75	5900.00	0.0041	1.01	8.88	62.85	15.40	5900.00	0.0041	6.45	10.93	16.83	10.50	16.83	10.50
VANO 18	38.40	41.00	1124.25	247.59	1589.56	1033.64	68.36	16.75	5900.00	0.0041	1.01	8.88	62.85	15.40	5900.00	0.0041	6.45	10.93	16.83	10.50	16.83	10.93
VANO 18	39.60	42.00	1225.73	269.50	1650.24	1118.82	74.53	18.26	5900.00	0.0041	1.09	9.68	68.03	16.67	5900.00	0.0041	6.70	11.68	16.83	10.50	16.83	10.93
VANO 18	40.80	43.00	1328.09	292.13	1712.62	1203.89	80.75	19.78	5900.00	0.0041	1.19	10.49	73.20	17.93	5900.00	0.0041	6.95	12.44	16.83	10.50	16.83	11.68
VANO 18	42.00	44.00	1431.26	314.99	1777.31	1288.86	87.03	21.32	5900.00	0.0041	1.28	11.30	78.37	19.20	5900.00	0.0041	7.21	13.21	16.83	10.50	16.83	12.44
VANO 18	43.20	45.00	1535.21	338.08	1843.76	1373.70	93.35	22.87	5900.00	0.0041	1.37	12.12	83.53	20.46	5900.00	0.0041	7.48	13.97	16.83	10.50	16.83	13.21
VANO 18	43.20	46.00	1535.21	338.08	1843.76	1373.70	93.35	22.87	5900.00	0.0041	1.37	12.12	83.53	20.46	5900.00	0.0041	7.48	13.97	16.83	10.50	16.83	13.97
VANO 18	44.40	47.00	1639.87	361.39	1911.86	1458.43	99.71	24.43	5900.00	0.0041	1.47	12.95	88.68	21.73	5900.00	0.0041	7.76	14.74	16.83	10.50	16.83	14.74
VANO 18	45.60	48.00	1745.20	384.93	1982.18	1543.03	106.12	26.00	5900.00	0.0041	1.56	13.78	93.82	22.99	5900.00	0.0041	8.05	15.52	16.83	10.50	16.83	15.52
VANO 18	46.80	49.00	1851.13	408.69	2054.28	1627.50	112.56	27.58	5900.00	0.0041	1.66	14.62	98.96	24.25	5900.00	0.0041	8.34	16.29	16.83	10.50	16.83	16.29

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
		14	Variables
Nº TENDON	6	18	19
Nº CORDON	25	28.5	28.5
ROTURA TE	% 28.5	0.75	75%
% TESADO	0.8	0.2	20%
% PERDIDA	0.16	1	1.0
COEF. SEG	1		

ARMADO DE LOSA SUPERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S3)=	1.22
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.061
Canto sec=	0.53

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC | **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** | **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 19	0.00	1.00	2316.53	710.45	2110.42	1719.54	140.86	34.51	5900.00	0.0041	2.88	18.70	104.56	25.62	5900.00	0.0041	8.57	17.09	16.83	10.50	18.70	18.70
VANO 19	1.20	2.00	1801.53	683.29	2036.10	1635.21	109.54	26.84	5900.00	0.0041	2.77	14.81	99.43	24.36	5900.00	0.0041	8.26	16.31	16.83	10.50	16.83	16.31
VANO 19	2.40	3.00	1698.44	656.36	1963.69	1550.74	103.27	25.30	5900.00	0.0041	2.66	13.98	94.29	23.10	5900.00	0.0041	7.97	15.54	16.83	10.50	16.83	15.54
VANO 19	3.60	4.00	1605.64	629.66	1893.18	1466.14	97.63	23.92	5900.00	0.0041	2.56	13.24	89.15	21.84	5900.00	0.0041	7.68	14.76	16.83	10.50	16.83	14.76
VANO 19	4.80	5.00	1513.50	603.18	1824.57	1381.42	92.03	22.55	5900.00	0.0041	2.45	12.50	84.00	20.58	5900.00	0.0041	7.41	13.99	16.83	10.50	16.83	13.99
VANO 19	4.80	6.00	1513.50	603.18	1824.57	1381.42	92.03	22.55	5900.00	0.0041	2.45	12.50	84.00	20.58	5900.00	0.0041	7.41	13.99	16.83	10.50	16.83	13.99
VANO 19	6.00	7.00	1422.07	576.92	1757.87	1296.57	86.47	21.18	5900.00	0.0041	2.34	11.76	78.84	19.32	5900.00	0.0041	7.14	13.23	16.83	10.50	16.83	13.23
VANO 19	7.20	8.00	1331.41	550.89	1693.38	1211.61	80.96	19.83	5900.00	0.0041	2.24	11.04	73.67	18.05	5900.00	0.0041	6.87	12.46	16.83	10.50	16.83	12.46
VANO 19	8.40	9.00	1232.18	525.09	1630.18	1126.54	74.92	18.36	5900.00	0.0041	2.13	10.24	68.50	16.78	5900.00	0.0041	6.62	11.70	16.83	10.50	16.83	11.70
VANO 19	9.60	10.00	1130.68	499.51	1569.19	1041.36	68.75	16.84	5900.00	0.0041	2.03	9.44	63.32	15.51	5900.00	0.0041	6.37	10.94	16.83	10.50	16.83	10.94
VANO 19	9.60	11.00	1130.68	499.51	1569.19	1041.36	68.75	16.84	5900.00	0.0041	2.03	9.44	63.32	15.51	5900.00	0.0041	6.37	10.94	16.83	10.50	16.83	10.94
VANO 19	10.80	12.00	1030.10	474.16	1510.11	956.08	62.64	15.35	5900.00	0.0041	1.92	8.64	58.13	14.24	5900.00	0.0041	6.13	10.19	16.83	10.50	16.83	10.50
VANO 19	12.00	13.00	930.46	449.04	1452.32	870.71	56.58	13.86	5900.00	0.0041	1.82	7.84	52.94	12.97	5900.00	0.0041	5.90	9.43	16.83	10.50	16.83	10.50
VANO 19	13.20	14.00	831.83	424.14	1397.14	785.24	50.58	12.39	5900.00	0.0041	1.72	7.06	47.75	11.70	5900.00	0.0041	5.67	8.69	16.83	10.50	16.83	10.50
VANO 19	14.40	15.00	734.22	399.46	1345.19	699.70	44.64	10.94	5900.00	0.0041	1.62	6.28	42.55	10.42	5900.00	0.0041	5.46	7.94	16.83	10.50	16.83	10.50
VANO 19	14.40	16.00	717.28	399.46	1345.19	682.76	43.61	10.69	5900.00	0.0041	1.62	6.15	41.52	10.17	5900.00	0.0041	5.46	7.82	16.83	10.50	16.83	10.50
VANO 19	15.60	17.00	620.74	375.01	1297.38	597.15	37.74	9.25	5900.00	0.0041	1.52	5.38	36.31	8.90	5900.00	0.0041	5.27	7.08	16.83	10.50	16.83	10.50
VANO 19	16.80	18.00	525.30	350.79	1250.36	511.47	31.94	7.83	5900.00	0.0041	1.42	4.62	31.10	7.62	5900.00	0.0041	5.08	6.35	16.83	10.50	16.83	10.50
VANO 19	18.00	19.00	430.99	326.79	1206.15	425.74	26.21	6.42	5900.00	0.0041	1.33	3.87	25.89	6.34	5900.00	0.0041	4.90	5.62	16.83	10.50	16.83	10.50
VANO 19	19.20	20.00	489.77	177.07	1164.34	339.96	29.78	7.30	5900.00	0.0041	0.72	4.01	20.67	5.06	5900.00	0.0041	4.73	4.90	16.83	10.50	16.83	10.50
VANO 19	19.20	21.00	489.77	177.07	1164.34	339.96	29.78	7.30	5900.00	0.0041	0.72	4.01	20.67	5.06	5900.00	0.0041	4.73	4.90	16.83	10.50	16.83	10.50
VANO 19	20.40	22.00	567.43	166.70	1127.38	254.15	34.50	8.45	5900.00	0.0041	0.68	4.56	15.45	3.79	5900.00	0.0041	4.58	4.18	16.83	10.50	16.83	10.50
VANO 19	21.60	23.00	646.40	156.32	1096.10	168.30	39.30	9.63	5900.00	0.0041	0.63	5.13	10.23	2.51	5900.00	0.0041	4.45	3.48	16.83	10.50	16.83	10.50
VANO 19	22.80	24.00	726.69	145.95	1088.15	83.36	44.19	10.83	5900.00	0.0041	0.59	5.71	5.07	1.24	5900.00	0.0041	4.42	2.83	16.83	10.50	16.83	10.50
VANO 19	24.00	25.00	399.83	135.57	1115.73	3.98	24.31	5.96	5900.00	0.0041	0.55	3.25	0.24	0.06	5900.00	0.0041	4.53	2.29	16.83	10.50	16.83	10.50
VANO 19	24.00	26.00	399.83	135.57	1115.73	3.98	24.31	5.96	5900.00	0.0041	0.55	3.25	0.24	0.06	5900.00	0.0041	4.53	2.29	16.83	10.50	16.83	10.50
VANO 19	25.20	27.00	711.62	187.04	1152.15	89.30	43.27	10.60	5900.00	0.0041	0.76	5.68	5.43	1.33	5900.00	0.0041	4.68	3.01	16.83	10.50	16.83	10.50
VANO 19	26.40	28.00	631.31	164.70	1192.17	175.16	38.39	9.40	5900.00	0.0041	0.67	5.04	10.65	2.61	5900.00	0.0041	4.84	3.72	16.83	10.50	16.83	10.50
VANO 19	27.60	29.00	552.32	142.63	1233.11	261.01	33.58	8.23	5900.00	0.0041	0.58	4.40	15.87	3.89	5900.00	0.0041	5.01	4.45	16.83	10.50	16.83	10.50
VANO 19	28.80	30.00	474.65	120.83	1277.25	346.82	28.86	7.07	5900.00	0.0041	0.49	3.78	21.09	5.17	5900.00	0.0041	5.18	5.18	16.83	10.50	16.83	10.50
VANO 19	28.80	31.00	474.65	120.83	1277.25	346.82	28.86	7.07	5900.00	0.0041	0.49	3.78	21.09	5.17	5900.00	0.0041	5.18	5.18	16.83	10.50	16.83	10.50
VANO 19	30.00	32.00	441.60	111.38	1322.10	432.60	26.85	6.58	5900.00	0.0041	0.45	3.52	26.30	6.44	5900.00	0.0041	5.37	5.91	16.83	10.50	16.83	10.50
VANO 19	31.20	33.00	535.90	124.89	1370.15	518.33	32.59	7.98	5900.00	0.0041	0.51	4.25	31.52	7.72	5900.00	0.0041	5.56	6.64	16.83	10.50	16.83	10.50
VANO 19	32.40	34.00	631.32	143.44	1420.11	604.01	38.39	9.40	5900.00	0.0041	0.58	4.99	36.73	9.00	5900.00	0.0041	5.76	7.38	16.83	10.50	16.83	10.50
VANO 19	33.60	35.00	727.84	163.77	1471.17	689.62	44.26	10.84	5900.00	0.0041	0.66	5.75	41.93	10.27	5900.00	0.0041	5.97	8.12	16.83	10.50	16.83	10.50
VANO 19	33.60	36.00	727.84	163.77	1471.17	689.62	44.26	10.84	5900.00	0.0041	0.66	5.75	41.93	10.27	5900.00	0.0041	5.97	8.12	16.83	10.50	16.83	10.50
VANO 19	34.80	37.00	825.43	184.39	1524.14	775.16	50.19	12.30	5900.00	0.0041	0.75	6.52	47.13	11.55	5900.00	0.0041	6.19	8.87	16.83	10.50	16.83	10.50
VANO 19	36.00	38.00	924.05	205.23	1580.11	860.62	56.19	13.77	5900.00	0.0041	0.83	7.30	52.33	12.82	5900.00	0.0041	6.41	9.62	16.83	10.50	16.83	10.50
VANO 19	37.20	39.00	1023.67	226.30	1637.18	945.99	62.24	15.25	5900.00	0.0041	0.92	8.08	57.52	14.09	5900.00	0.0041	6.65	10.37	16.83	10.50	16.83	10.50
VANO 19	38.40	40.00	1124.25	247.59	1696.46	1031.27	68.36	16.75	5900.00	0.0041	1.01	8.88	62.71	15.36	5900.00	0.0041	6.89	11.12	16.83	10.50	16.83	11.12
VANO 19	38.40	41.00	1124.25	247.59	1696.46	1031.27	68.36	16.75	5900.00	0.0041	1.01	8.88	62.71	15.36	5900.00	0.0041	6.89	11.12	16.83	10.50	16.83	11.12
VANO 19	39.60	42.00	1225.73	269.50	1757.44	1116.45	74.53	18.28	5900.00	0.0041	1.09	9.68	67.89	16.63	5900.00	0.0041	7.13	11.88	16.83	10.50	16.83	11.88
VANO 19	40.80	43.00	1328.09	292.13	1820.03	1201.52	80.75	19.78	5900.00	0.0041	1.19	10.49	73.06	17.90	5900.00	0.0041	7.39	12.64	16.83	10.50	16.83	12.64
VANO 19	42.00	44.00	1431.26	314.99	1885.12	1286.49	87.03	21.32	5900.00	0.0041	1.28	11.30	78.22	19.17	5900.00	0.0041	7.65	13.41	16.83	10.50	16.83	13.41
VANO 19	43.20	45.00	1535.21	338.08	1951.81	1371.33	93.35	22.87	5900.00	0.0041	1.37	12.12	83.38	20.43	5900.00	0.0041	7.92	14.18	16.83	10.50	16.83	14.18
VANO 19	43.20	46.00	1535.21	338.08	1951.81	1371.33	93.35	22.87	5900.00	0.0041	1.37	12.12	83.38	20.43	5900.00	0.0041	7.92	14.18	16.83	10.50	16.83	14.18
VANO 19	44.40	47.00	1639.87	361.39	2020.41	1456.05	99.71	24.43	5900.00	0.0041	1.47	12.95	88.54	21.69	5900.00	0.0041	8.20	14.95	16.83	10.50	16.83	14.95
VANO 19	45.60	48.00	1745.20	384.93	2090.91	1540.65	106.12	26.00	5900.00	0.0041	1.56	13.78	93.68	22.95	5900.00	0.0041	8.49	15.72	16.83	10.50	16.83	15.72
VANO 19	46.80	49.00	1851.13	408.69	2163.31	1625.12	112.56	27.58	5900.00	0.0041	1.66	14.62	98.82	24.21	5900.00	0.0041	8.78	16.50	16.83	10.50	16.83	16.50
VANO 19	48.00	50.00	2065.71	442.98	2237.42	1709.45	119.11	29.25	5900.00	0.0041	1.76	15.69	104.59	25.87	5900.00	0.0041	9.08	17.27	16.83	10.50	16.83	17.27
VANO 20	0.00	1.00	2308.18	418.89	1968.64	1715.72	140.35	34.39	5900.00	0.0041	1.70	18.04	104.32	25.56	5900.00	0.0041	7.99	16.78	16.83	10.50	18.04	18.04
VANO 20	1.20	2.00	1793.23	393.69	1896.11	1631.38	109.04	26.71	5900.00	0.0041	1.60	14.16	99.20	24.30	5900.00	0.0041	7.70	16.00	16.83	10.50	16.83	16.00
VANO 20	2.40	3.00	1687.35	369.93	1826.73	1546.90	102.60	25.14	5900.00	0.0041	1.50	13.32	94.06	23.04	5900.00	0.0041	7.42	15.23	16.83	10.50	16.83	15.23
VANO 20	3.60	4.00	1582.08	346.40	1759.25	1462.30	96.20	23.57	5900.00	0.0041	1.41	12.49	88.92	21.78	5900.00	0.0041	7.14	14.46	16.83	10.50	16.83	14.46
VANO 20	4.80	5.00	1477.47	323.10	1693.69	1377.57	89.84	22.01	5900.00	0.0041	1.31	11.66	83.76	20.52	5900.00	0.0041	6.88	13.70	16.83	10.50	16.83	13.70
VANO 20	4.80	6.00	1477.47	323.10	1693.69	1377.57	89.84	22.01	5900.00	0.0041	1.31	11.66	83.76	20.52	5900.00	0.0041	6.88	13.70	16.83	10.50	16.83	13.70
VANO 20	6.00	7.00	1373.58	300.01	1630.05	1292.72	83.52	20.46	5900.00	0.0041	1.22	10.84	78.60	19.26	5900.00	0.0041	6.62	12.94	16.83	10.50	16.83	12.94
VANO 20	7.20	8.00	1269.49	277.15	1568.31	1207.76	77.19	18.91	5900.00	0.0041	1.13	10.02	73.44	17.99	5900.00	0.0041	6.37	12.18	16.83	10.50	16.83	12.18
VANO 20	8.40	9.00	1167.19	254.54	1508.53	1122.68	70.97	17.39	5900.00	0.0041	1.03	9.21	68.26	16.72	5900.00	0.0041	6.12	11.42	16.83	10.50	16.83	11.42
VANO 20	9.60	10.00	1065.76	232.20	1450.63	1037.50	64.80	15.88	5900.00	0.0041	0.94	8.41	63.09	15.46	5900.00	0.0041	5.89	10.67	16.83	10.50	15.83	10.67
VANO 20	9.60	11.00	1065.76	232.20	1450.63	1037.50	64.80	15.88	5900.00	0.0041	0.94	8.41	63.09	15.46	5900.00	0.0041	5.89	10.67	16.83	10.50	16.83	10.67
VANO 20	10.80	12.00	965.23	210.50	1395.13	952.21	58.69	14.38	5900.00	0.0041	0.85	7.62	57.90	14.19	5900.00	0.0041	5.66	9.92	16.83	10.50	16.83	10.50
VANO 20	12.00	13.00	865.66	189.50	1342.02	866.84	52.64	12.90	5900.00	0.0041	0.77	6.83	52.71	12.91	5900.00	0.0041	5.45	9.18	16.83	10.50	16.83	10.50
VANO 20	13.20	14.00	767.09	168.72	1290.81	781.37	46.64	11.43	5900.00	0.0041	0.68	6.06	47.51	11.64	5900.00	0.0041	5.24	8.44	16.83	10.50	16.83	10.50
VANO 20	14.40	15.00	669.55	149.06	1242.40	695.83	40.71	9.97	5900.00	0.0041	0.61	5.29	42.31	10.37	5900.00	0.0041	5.04	7.70	16.83	10.50	16.83	10.50
VANO 20	14.40	16.00	652.61	149.06	1242.40	678.86	39.68	9.72	5900.00	0.0041	0.61	5.16	41.28	10.11	5900.00	0.0041	5.04	7.58	16.83	10.50	16.83	10.50
VANO 20	15.60	17.00	556.13	135.09	1201.33	593.27	33.82	8.28	5900.00	0.0041	0.55	4.42	36.07	8.84	5900.00	0.0041	4.88	6.86	16.83	10.50	16.83	10.50
VANO 20	16.80	18.00	460.75	121.34	1162.24	507.59	28.02	6.86	5900.00	0.0041	0.49	3.68	30.86	7.56	5900.00	0.0041	4.72	6.14	16.83	10.50	16.83	10.50
VANO 20	18.00	19.00	366.50	107.61	1125.02	421.85	22.29	5.46	5900.00	0.0041	0.44	2.95	25.65	6.28	5900.00	0.0041	4.57	5.43	16.83	10.50	16.83	10.50
VANO 20	19.20	20.00	415.94	111.37	1089.83	336.07	25.29	6.20	5900.00	0.0041	0.45	3.32	20.43	5.01	5900.00	0.0041	4.42	4.72	16.83	10.50	16.83	10.50
VANO 20	19.20	21.00	415.94	111.37	1089.83	336.07	25.29	6.20	5900.00	0.0041	0.45	3.32	20.43	5.01	5900.00	0.0041	4.42	4.72	16.83	10.50	16.83	10.50
VANO 20	20.40	22.00	496.78	133.21	1090.04	252.92	30.21	7.40	5900.00	0.0041	0.54	3.97	15.38	3.77	5900.00	0.0041	4.42	4.10	16.83	10.50	16.83	10.50
VANO 20	21.60	23.00	578.93	155.32	1104.07	166.18	35.20	8.62	5900.00	0.0041	0.63	4.63	10.10	2.48	5900.00	0.0041	4.48	3.48	16.83	10.50	16.83	10.50
VANO 20	22.80	24.00	662.40	177.71	1129.43	79.41	40.28	9.87	5900.00	0.0041	0.72	5.29	4.83	1.18	5900.00	0.0041	4.58	2.88	16.83	10.50	16.83	10.50
VANO 20	24.00	25.00	338.74	200.37	1164.56	7.33	20.60	5.05	5900.00	0.0041	0.81	2.93	0.45	0.11	5900.00	0.0041	4.73	2.42	16.83	10.50	16.83	10.50
VANO 20	24.00	26.00	338.74	200.37	1164.56	7.33	20.60	5.05	5900.00	0.0041	0.81	2.93	0.45	0.11	5900.00	0.0041	4.73	2.42	16.83	10.50	16.83	10.50
VANO 20	25.20	27.00	646.53	135.02	1201.80	93.20	39.31	9.63	5900.00	0.0041	0.55	5.09	5.67	1.39	5900.00	0.0041	4.88	3.13	16.83	10.50	16.83	10.50
VANO 20	26.40	28.00	563.13	145.47	1241.19	179.06	34.24	8.39	5900.00	0.0041	0.59	4.49	10.89	2.67	5900.00	0.0041	5.04	3.85	16.83	10.50	16.83	10.50
VANO 20	27.60	29.00	481.05	155.92	1282.62	264.90	29.25	7.17	5900.00	0.0041	0.63	3.90	16.11	3.95	5900.00	0.0041	5.21	4.58	16.83	10.50	16.83	10.50
VANO 20	28.80	30.00	400.28	170.28	1326.21	350.72	24.34	5.96	5900.00	0.0041	0.69	3.33	21.33	5.22	5900.00	0.0041	5.38	5.30	16.83	10.50	16.83	10.50
VANO 20	28.80	31.00	400.28	170.28	1326.21	350.72	24.34	5.96	5900.00	0.0041	0.69	3.33	21.33	5.22	5900.00	0.0041	5.38	5.30	16.83	10.50	16.83	10.50
VANO 20	30.00	32.00	382.92	317.64	1371.91	436.50	23.28	5.70	5900.00	0.0041	1.29	3.50	26.54	6.50	5900.00	0.0041	5.57	6.04	16.83	10.50	16.83	10.50
VANO 20	31.20	33.00	477.23	341.66	1419.63	522.23	29.02	7.11	5900.00	0.0041	1.39	4.25	31.75	7.78	5900.00	0.0041	5.76	6.77	16.83	10.50	16.83	10.50
VANO 20	32.40	34.00	572.66	365.91	1469.26	607.90	34.82	8.53	5900.00	0.0041	1.49	5.01	36.96	9.06	5900.00	0.0041	5.96	7.51	16.83	10.50	16.83	10.50
VANO 20	33.60	35.00	669.20	390.38	1520.80	693.51	40.69	9.97	5900.00	0.0041	1.58	5.78	42.17	10.33	5900.00	0.0041	6.17	8.25	16.83	10.50	16.83	10.50
VANO 20	33.60	36.00	669.20	390.38	1520.80	693.51	40.69	9.97	5900.00	0.0041	1.58	5.78	42.17	10.33	5900.00	0.0041	6.17	8.25	16.83	10.50	16.83	10.50
VANO 20	34.80	37.00	766.79	415.08	1574.25	779.05	46.63	11.42	5900.00	0.0041	1.68	6.55	47.37	11.61	5900.00	0.0041	6.39	9.00	16.83	10.50	16.83	10.50
VANO 20	36.00	38.00	865.42	439.99	1629.61	864.51	52.62	12.89	5900.00	0.0041	1.79	7.34	52.57	12.88	5900.00	0.0041	6.61	9.75	16.83	10.50	16.83	10.50
VANO 20	37.20	39.00	965.04	465.14	1686.85	949.88	58.68	14.38	5900.00	0.0041	1.89	8.13	57.76	14.15	5900.00	0.0041	6.85	10.50	16.83	10.50	16.83	10.50
VANO 20	38.40	40.00	1065.61	490.50	1746.07	1035.15	64.79	15.87	5900.00	0.0041	1.99	8.93	62.94	15.42	5900.00	0.0041	7.09	11.25	16.83	10.50	16.83	11.25
VANO 20	38.40	41.00	1065.61	490.50	1746.07	1035.15	64.79	15.87	5900.00	0.0041	1.99	8.93	62.94	15.42	5900.00	0.0041	7.09	11.25	16.83	10.50	16.83	11.25
VANO 20	39.60	42.00	1167.09	516.10	1807.17	1120.33	70.97	17.39	5900.00	0.0041	2.09	9.74	68.12	16.69	5900.00	0.0041	7.34	12.01	16.83	10.50	16.83	12.01
VANO 20	40.80	43.00	1269.43	541.91	1870.17	1205.40	77.19	18.91	5900.00	0.0041	2.20	10.56	73.29	17.96	5900.00	0.0041	7.59	12.77	16.83	10.50	16.83	12.77
VANO 20	42.00	44.00	1372.60	567.95	1935.08	1290.35	83.46	20.45	5900.00	0.0041	2.31	11.38	78.46	19.22	5900.00	0.0041	7.85	13.54	16.83	10.50	16.83	13.54
VANO 20	43.20	45.00	1476.52	594.21	2001.92	1375.19	89.78	22.00	5900.00	0.0041	2.41	12.20	83.62	20.49	5900.00	0.0041	8.13	14.31	16.83	10.50	16.83	14.31
VANO 20	43.20	46.00	1476.52	594.21	2001.92	1375.19	89.78	22.00	5900.00	0.0041	2.41	12.20	83.62	20.49	5900.00	0.0041	8.13	14.31	16.83	10.50	16.83	14.31
VANO 20	44.40	47.00	1581.17	620.70	2070.66	1459.91	96.14	23.56	5900.00	0.0041	2.52	13.04	88.77	21.75	5900.00	0.0041	8.41	15.08	16.83	10.50	16.83	15.08
VANO 20	45.60	48.00	1686.47	647.41	2141.31	1544.50	102.55	25.12	5900.00	0.0041	2.63	13.88	93.91	23.01	5900.00	0.0041	8.69	15.85	16.83	10.50	16.83	15.85
VANO 20	46.80	49.00	1792.38	674.34	2213.87	1628.96	108.99	26.70	5900.00	0.0041	2.74	14.72	99.05	24.27	5900.00	0.0041	8.99	16.83	16.83	10.50	16.83	16.83

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

ARMADO DE LOSA SUPERIOR JUNTO AL ALMA

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20 008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

CARACT. RASANTE

M est (S3)=	1.22
Inercia XX =	20.0
fyd cercos =	40816
colg tetha =	1
K rasant =	0.061
Canto sec=	0.53

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
colg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

			Hipótesis max cortante		Hipótesis max torsor			Dos caras				Una cara		Dos caras				Una cara	FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 21	0.00	1.00	2295.31	303.03	1698.01	1721.99	139.57	34.19	5900.00	0.0041	1.23	17.71	104.71	25.65	5900.00	0.0041	6.89	16.27	16.83	10.50	17.71	17.71
VANO 21	1.20	2.00	1780.31	286.39	1634.34	1637.62	108.25	26.52	5900.00	0.0041	1.16	13.84	99.58	24.40	5900.00	0.0041	6.63	15.52	16.83	10.50	16.83	15.52
VANO 21	2.40	3.00	1674.38	269.99	1572.62	1553.13	101.81	24.94	5900.00	0.0041	1.10	13.02	94.44	23.14	5900.00	0.0041	6.38	14.76	16.83	10.50	16.83	14.76
VANO 21	3.60	4.00	1569.07	253.81	1512.87	1468.50	95.41	23.37	5900.00	0.0041	1.03	12.20	89.29	21.88	5900.00	0.0041	6.14	14.01	16.83	10.50	16.83	14.01
VANO 21	4.80	5.00	1464.42	237.86	1455.07	1383.75	89.04	21.82	5900.00	0.0041	0.97	11.39	84.14	20.61	5900.00	0.0041	5.91	13.26	16.83	10.50	16.83	13.26
VANO 21	4.80	6.00	1464.42	237.86	1455.07	1383.75	89.04	21.82	5900.00	0.0041	0.97	11.39	84.14	20.61	5900.00	0.0041	5.91	13.26	16.83	10.50	16.83	13.26
VANO 21	6.00	7.00	1360.51	222.14	1399.24	1298.88	82.73	20.27	5900.00	0.0041	0.90	10.58	78.98	19.35	5900.00	0.0041	5.68	12.51	16.83	10.50	16.83	12.51
VANO 21	7.20	8.00	1257.38	206.65	1345.36	1213.90	76.46	18.73	5900.00	0.0041	0.84	9.79	73.81	18.08	5900.00	0.0041	5.46	11.77	16.83	10.50	16.83	11.77
VANO 21	8.40	9.00	1155.08	196.47	1293.44	1128.80	70.23	17.21	5900.00	0.0041	0.80	9.00	68.64	16.82	5900.00	0.0041	5.25	11.03	16.83	10.50	16.83	11.03
VANO 21	9.60	10.00	1053.66	206.80	1243.48	1043.59	64.07	15.70	5900.00	0.0041	0.84	8.27	63.46	15.55	5900.00	0.0041	5.05	10.30	16.83	10.50	16.83	10.50
VANO 21	9.60	11.00	1053.66	206.80	1243.48	1043.59	64.07	15.70	5900.00	0.0041	0.84	8.27	63.46	15.55	5900.00	0.0041	5.05	10.30	16.83	10.50	16.83	10.50
VANO 21	10.80	12.00	953.16	217.13	1195.48	958.29	57.96	14.20	5900.00	0.0041	0.88	7.54	58.27	14.28	5900.00	0.0041	4.85	9.56	16.83	10.50	16.83	10.50
VANO 21	12.00	13.00	853.63	227.45	1162.21	852.42	51.90	12.72	5900.00	0.0041	0.92	6.82	51.83	12.70	5900.00	0.0041	4.72	8.71	16.83	10.50	16.83	10.50
VANO 21	13.20	14.00	755.10	237.78	1162.23	795.61	45.91	11.25	5900.00	0.0041	0.97	6.11	48.38	11.85	5900.00	0.0041	4.72	8.29	16.83	10.50	16.83	10.50
VANO 21	14.40	15.00	657.62	248.11	1164.98	709.15	39.99	9.80	5900.00	0.0041	1.01	5.40	43.12	10.56	5900.00	0.0041	4.73	7.65	16.83	10.50	16.83	10.50
VANO 21	14.40	16.00	640.68	248.11	1164.98	692.21	38.96	9.54	5900.00	0.0041	1.01	5.28	42.09	10.31	5900.00	0.0041	4.73	7.52	16.83	10.50	16.83	10.50
VANO 21	15.60	17.00	544.28	258.43	1169.74	605.67	33.10	8.11	5900.00	0.0041	1.05	4.58	36.83	9.02	5900.00	0.0041	4.75	6.89	16.83	10.50	16.83	10.50
VANO 21	16.80	18.00	448.99	268.76	1176.50	519.08	27.30	6.69	5900.00	0.0041	1.09	3.89	31.56	7.73	5900.00	0.0041	4.78	6.25	16.83	10.50	16.83	10.50
VANO 21	18.00	19.00	354.85	279.09	1188.15	432.44	21.58	5.29	5900.00	0.0041	1.13	3.21	26.29	6.44	5900.00	0.0041	4.82	5.63	16.83	10.50	16.83	10.50
VANO 21	19.20	20.00	390.69	368.44	1206.84	345.75	23.76	5.82	5900.00	0.0041	1.50	3.66	21.02	5.15	5900.00	0.0041	4.90	5.02	16.83	10.50	16.83	10.50
VANO 21	19.20	21.00	390.69	368.44	1206.84	345.75	23.76	5.82	5900.00	0.0041	1.50	3.66	21.02	5.15	5900.00	0.0041	4.90	5.02	16.83	10.50	16.83	10.50
VANO 21	20.40	22.00	468.48	375.14	1236.59	259.02	28.49	6.98	5900.00	0.0041	1.52	4.25	15.75	3.86	5900.00	0.0041	5.02	4.44	16.83	10.50	16.83	10.50
VANO 21	21.60	23.00	550.77	397.31	1268.51	172.27	33.49	8.20	5900.00	0.0041	1.61	4.91	10.48	2.57	5900.00	0.0041	5.15	3.86	16.83	10.50	16.83	10.50
VANO 21	22.80	24.00	634.38	419.76	1302.59	85.51	38.57	9.45	5900.00	0.0041	1.70	5.58	5.20	1.27	5900.00	0.0041	5.29	3.28	16.83	10.50	16.83	10.50
VANO 21	24.00	25.00	311.70	330.72	1338.84	3.64	18.95	4.64	5900.00	0.0041	1.34	2.99	0.22	0.05	5900.00	0.0041	5.43	2.74	16.83	10.50	16.83	10.50
VANO 21	24.00	26.00	311.70	330.72	1338.84	3.64	18.95	4.64	5900.00	0.0041	1.34	2.99	0.22	0.05	5900.00	0.0041	5.43	2.74	16.83	10.50	16.83	10.50
VANO 21	25.20	27.00	635.47	341.05	1377.24	87.22	38.64	9.47	5900.00	0.0041	1.38	5.43	5.30	1.30	5900.00	0.0041	5.59	3.44	16.83	10.50	16.83	10.50
VANO 21	26.40	28.00	552.24	361.32	1417.80	173.08	33.58	8.23	5900.00	0.0041	1.47	4.85	10.52	2.58	5900.00	0.0041	5.76	4.17	16.83	10.50	16.83	10.50
VANO 21	27.60	29.00	470.33	383.04	1460.53	258.91	28.60	7.01	5900.00	0.0041	1.55	4.28	15.74	3.86	5900.00	0.0041	5.93	4.89	16.83	10.50	16.83	10.50
VANO 21	28.80	30.00	390.28	372.03	1505.42	344.70	23.73	5.81	5900.00	0.0041	1.51	3.66	20.96	5.14	5900.00	0.0041	6.11	5.62	16.83	10.50	16.83	10.50
VANO 21	28.80	31.00	390.28	372.03	1505.42	344.70	23.73	5.81	5900.00	0.0041	1.51	3.66	20.96	5.14	5900.00	0.0041	6.11	5.62	16.83	10.50	16.83	10.50
VANO 21	30.00	32.00	355.65	560.21	1552.46	430.46	21.63	5.30	5900.00	0.0041	2.27	3.79	26.17	6.41	5900.00	0.0041	6.30	6.36	16.83	10.50	16.83	10.50
VANO 21	31.20	33.00	450.15	584.33	1601.57	516.16	27.37	6.71	5900.00	0.0041	2.37	4.54	31.39	7.69	5900.00	0.0041	6.50	7.10	16.83	10.50	16.83	10.50
VANO 21	32.40	34.00	545.77	608.68	1652.62	601.80	33.19	8.13	5900.00	0.0041	2.47	5.30	36.59	8.97	5900.00	0.0041	6.71	7.84	16.83	10.50	16.83	10.50
VANO 21	33.60	35.00	642.48	633.26	1705.63	687.38	39.07	9.57	5900.00	0.0041	2.57	6.07	41.80	10.24	5900.00	0.0041	6.92	8.58	16.83	10.50	16.83	10.50
VANO 21	33.60	36.00	642.48	633.26	1705.63	687.38	39.07	9.57	5900.00	0.0041	2.57	6.07	41.80	10.24	5900.00	0.0041	6.92	8.58	16.83	10.50	16.83	10.50
VANO 21	34.80	37.00	740.26	658.07	1760.59	772.87	45.01	11.03	5900.00	0.0041	2.67	6.85	46.99	11.51	5900.00	0.0041	7.15	9.33	16.83	10.50	16.83	10.50
VANO 21	36.00	38.00	839.06	683.11	1817.51	858.28	51.02	12.50	5900.00	0.0041	2.77	7.64	52.19	12.79	5900.00	0.0041	7.38	10.08	16.83	10.50	16.83	10.50
VANO 21	37.20	39.00	938.84	708.38	1876.37	943.60	57.09	13.99	5900.00	0.0041	2.88	8.43	57.38	14.06	5900.00	0.0041	7.62	10.84	16.83	10.50	16.83	10.50
VANO 21	38.40	40.00	1039.57	733.88	1937.19	1028.81	63.21	15.49	5900.00	0.0041	2.98	9.23	62.56	15.33	5900.00	0.0041	7.86	11.59	16.83	10.50	16.83	10.84
VANO 21	38.40	41.00	1039.57	733.88	1937.19	1028.81	63.21	15.49	5900.00	0.0041	2.98	9.23	62.56	15.33	5900.00	0.0041	7.86	11.59	16.83	10.50	16.83	11.59
VANO 21	39.60	42.00	1141.20	759.61	1999.96	1113.92	69.39	17.00	5900.00	0.0041	3.08	10.04	67.73	16.59	5900.00	0.0041	8.12	12.36	16.83	10.50	16.83	11.59
VANO 21	40.80	43.00	1243.68	785.57	2064.68	1198.92	75.62	18.53	5900.00	0.0041	3.19	10.86	72.90	17.86	5900.00	0.0041	8.38	13.12	16.83	10.50	16.83	12.36
VANO 21	42.00	44.00	1346.97	811.75	2131.36	1283.80	81.90	20.07	5900.00	0.0041	3.30	11.68	78.06	19.13	5900.00	0.0041	8.65	13.89	16.83	10.50	16.83	13.12
VANO 21	43.20	45.00	1451.01	838.17	2199.98	1368.55	88.23	21.62	5900.00	0.0041	3.40	12.51	83.21	20.39	5900.00	0.0041	8.93	14.66	16.83	10.50	16.83	13.89
VANO 21	43.20	46.00	1451.01	838.17	2199.98	1368.55	88.23	21.62	5900.00	0.0041	3.40	12.51	83.21	20.39	5900.00	0.0041	8.93	14.66	16.83	10.50	16.83	14.66
VANO 21	44.40	47.00	1555.74	864.82	2270.56	1453.17	94.60	23.18	5900.00	0.0041	3.51	13.34	88.36	21.65	5900.00	0.0041	9.22	15.43	16.83	10.50	16.83	14.66
VANO 21	45.60	48.00	1661.12	891.69	2343.09	1537.67	101.00	24.75	5900.00	0.0041	3.62	14.18	93.50	22.91	5900.00	0.0041	9.51	16.21	16.83	10.50	16.83	15.43
VANO 21	46.80	49.00	1767.08	918.80	2417.58	1622.02	107.45	26.32	5900.00	0.0041	3.73	15.03	98.63	24.16	5900.00	0.0041	9.81	16.99	16.83	10.50	16.99	16.21
VANO 22	0.00	1.00	2209.25	452.93	1436.54	1777.55	134.33	32.91	5900.00	0.0041	1.84	17.38	108.08	26.48	5900.00	0.0041	5.83	16.16	16.83	10.50	17.38	17.38
VANO 22	0.98	2.00	1775.04	461.26	1424.01	1708.04	107.93	26.44	5900.00	0.0041	1.87	14.16	103.86	25.45	5900.00	0.0041	5.78	15.61	16.83	10.50	16.83	15.61
VANO 22	1.95	3.00	1688.21	469.59	1413.15	1638.41	102.65	25.15	5900.00	0.0041	1.91	13.53	99.62	24.41	5900.00	0.0041	5.74	15.07	16.83	10.50	16.83	15.07
VANO 22	2.93	4.00	1601.72	477.91	1403.95	1568.67	97.39	23.86	5900.00	0.0041	1.94	12.90	95.38	23.37	5900.00	0.0041	5.70	14.53	16.83	10.50	16.83	14.53
VANO 22	3.90	5.00	1515.59	486.24	1396.44	1498.82	92.16	22.58	5900.00	0.0041	1.97	12.28	91.14	22.33	5900.00	0.0041	5.67	14.00	16.83	10.50	16.83	14.00
VANO 22	3.90	6.00	1515.59	486.24	1396.44	1498.82	92.16	22.58	5900.00	0.0041	1.97	12.28	91.14	22.33	5900.00	0.0041	5.67	14.00	16.83	10.50	16.83	14.00
VANO 22	4.88	7.00	1429.87	494.57	1392.92	1428.85	86.94	21.30	5900.00	0.0041	2.01	11.65	86.88	21.29	5900.00	0.0041	5.65	13.47	16.83	10.50	16.83	13.47
VANO 22	5.85	8.00	1344.58	502.90	1391.06	1358.78	81.76	20.03	5900.00	0.0041	2.04	11.04	82.62	20.24	5900.00	0.0041	5.65	12.94	16.83	10.50	16.83	12.94
VANO 22	6.83	9.00	1259.74	511.23	1390.86	1288.59	76.60	18.77	5900.00	0.0041	2.08	10.42	78.35	19.20	5900.00	0.0041	5.65	12.42	16.83	10.50	16.83	12.42
VANO 22	7.80	10.00	1175.38	519.55	1392.33	1218.29	71.47	17.51	5900.00	0.0041	2.11	9.81	74.08	18.15	5900.00	0.0041	5.65	11.90	16.83	10.50	16.83	11.90
VANO 22	7.80	11.00	1175.38	519.55	1392.33	1218.29	71.47	17.51	5900.00	0.0041	2.11	9.81	74.08	18.15	5900.00	0.0041	5.65	11.90	16.83	10.50	16.83	11.90
VANO 22	8.78	12.00	1091.54	527.88	1405.78	1147.89	66.37	16.26	5900.00	0.0041	2.14	9.20	69.80	17.10	5900.00	0.0041	5.71	11.40	16.83	10.50	16.83	11.40
VANO 22	9.75	13.00	1008.29	536.21	1421.79	1077.40	61.31	15.02	5900.00	0.0041	2.18	8.60	65.51	16.05	5900.00	0.0041	5.77	10.91	16.83	10.50	16.83	10.91
VANO 22	10.73	14.00	925.80	544.54	1439.61	1006.92	56.29	13.79	5900.00	0.0041	2.21	8.00	61.23	15.00	5900.00	0.0041	5.84	10.42	16.83	10.50	16.83	10.50
VANO 22	11.70	15.00	844.11	552.87	1459.23	936.43	51.33	12.57	5900.00	0.0041	2.24	7.41	56.94	13.95	5900.00	0.0041	5.92	9.94	16.83	10.50	16.83	10.50
VANO 22	11.70	16.00	844.11	552.87	1459.23	936.43	51.33	12.57	5900.00	0.0041	2.24	7.41	56.94	13.95	5900.00	0.0041	5.92	9.94	16.83	10.50	16.83	10.50
VANO 22	12.68	17.00	763.24	561.19	1480.65	865.94	46.41	11.37	5900.00	0.0041	2.28	6.82	52.65	12.90	5900.00	0.0041	6.01	9.46	16.83	10.50	16.83	10.50
VANO 22	13.65	18.00	683.20	574.55	1503.89	795.46	41.54	10.18	5900.00	0.0041	2.33	6.26	48.37	11.85	5900.00	0.0041	6.10	8.98	16.83	10.50	16.83	10.50
VANO 22	14.63	19.00	604.03	593.27	1528.92	724.97	36.73	9.00	5900.00	0.0041	2.41	5.70	44.08	10.80	5900.00	0.0041	6.21	8.50	16.83	10.50	16.83	10.50
VANO 22	15.60	20.00	525.73	611.77	1555.77	654.50	31.97	7.83	5900.00	0.0041	2.48	5.16	39.80	9.75	5900.00	0.0041	6.32	8.03	16.83	10.50	16.83	10.50
VANO 22	15.60	21.00	525.73	611.77	1555.77	654.50	31.97	7.83	5900.00	0.0041	2.48	5.16	39.80	9.75	5900.00	0.0041	6.32	8.03	16.83	10.50	16.83	10.50
VANO 22	16.58	22.00	446.34	630.03	1584.42	584.03	27.26	6.68	5900.00	0.0041	2.56	4.62	35.51	8.70	5900.00	0.0041	6.43	7.57	16.83	10.50	16.83	10.50
VANO 22	17.55	23.00	371.88	648.06	1614.88	513.57	22.61	5.54	5900.00	0.0041	2.63	4.09	31.23	7.65	5900.00	0.0041	6.56	7.10	16.83	10.50	16.83	10.50
VANO 22	18.53	24.00	296.35	665.86	1647.15	443.12	18.02	4.41	5900.00	0.0041	2.70	3.56	26.94	6.60	5900.00	0.0041	6.69	6.64	16.83	10.50	16.83	10.50
VANO 22	19.50	25.00	323.80	746.69	1681.22	372.69	19.69	4.82	5900.00	0.0041	3.03	3.93	22.66	5.55	5900.00	0.0041	6.82	6.19	16.83	10.50	16.83	10.50
VANO 22	19.50	26.00	323.80	746.69	1681.22	372.69	19.69	4.82	5900.00	0.0041	3.03	3.93	22.66	5.55	5900.00	0.0041	6.82	6.19	16.83	10.50	16.83	10.50
VANO 22	20.48	27.00	386.36	744.04	1717.09	302.27	23.49	5.76	5900.00	0.0041	3.02	4.39	18.38	4.50	5900.00	0.0041	6.97	5.74	16.83	10.50	16.83	10.50
VANO 22	21.45	28.00	451.29	750.66	1754.78	231.87	27.44	6.72	5900.00	0.0041	3.05	4.89	14.10	3.45	5900.00	0.0041	7.12	5.29	16.83	10.50	16.83	10.50
VANO 22	22.43	29.00	351.06	734.72	1794.27	161.49	21.35	5.23	5900.00	0.0041	2.98	4.11	9.82	2.41	5900.00	0.0041	7.28	4.84	16.83	10.50	16.83	10.50
VANO 22	23.40	30.00	703.55	751.35	1835.57	91.13	42.78	10.48	5900.00	0.0041	3.05	6.77	5.54	1.36	5900.00	0.0041	7.45	4.40	16.83	10.50	16.83	10.50
VANO 22	23.40	31.00	686.61	751.35	1835.57	74.19	41.75	10.23	5900.00	0.0041	3.05	6.64	4.51	1.11	5900.00	0.0041	7.45	4.28	16.83	10.50	16.83	10.50
VANO 22	24.38	32.00	617.19	767.75	1878.67	14.17	37.53	9.19	5900.00	0.0041	3.12	6.16	0.86	0.21	5900.00	0.0041	7.63	3.92	16.83	10.50	16.83	10.50
VANO 22	25.35	33.00	550.16	783.92	1923.58	65.66	33.45	8.20	5900.00	0.0041	3.18	5.69	3.99	0.98	5900.00	0.0041	7.81	4.39	16.83	10.50	16.83	10.50
VANO 22	26.33	34.00	486.82	705.22	1970.30	135.20	29.60	7.25	5900.00	0.0041	2.86	5.06	8.22	2.01	5900.00	0.0041	8.00	5.01	16.83	10.50	16.83	10.50
VANO 22	27.30	35.00	425.53	717.40	2018.82	204.71	25.87	6.34	5900.00	0.0041	2.91	4.63	12.45	3.05	5900.00	0.0041	8.19	5.62	16.83	10.50	16.83	10.50
VANO 22	27.30	36.00	425.53	717.40	2018.82	204.71	25.87	6.34	5900.00	0.0041	2.91	4.63	12.45	3.05	5900.00	0.0041	8.19	5.62	16.83	10.50	16.83	10.50
VANO 22	28.28	37.00	364.89	729.38	2069.15	274.19	22.19	5.44	5900.00	0.0041	2.96	4.20	16.67	4.08	5900.00	0.0041	8.40	6.24	16.83	10.50	16.83	10.50
VANO 22	29.25	38.00	304.91	741.17	2121.29	343.63	18.54	4.54	5900.00	0.0041	3.01	3.78	20.89	5.12	5900.00	0.0041	8.61	6.86	16.83	10.50	16.83	10.50
VANO 22	30.23	39.00	350.29	1002.05	2175.22	413.02	21.30	5.22	5900.00	0.0041	4.07	4.64	25.11	6.15	5900.00	0.0041	8.83	7.49	16.83	10.50	16.83	10.50
VANO 22	31.20	40.00	429.93	1023.59	2230.85	482.37	26.14	6.40	5900.00	0.0041	4.15	5.28	29.33	7.19	5900.00	0.0041	9.06	8.12	16.83	10.50	16.83	10.50
VANO 22	31.20	41.00	429.93	1023.59	2230.85	482.37	26.14	6.40	5900.00	0.0041	4.15	5.28	29.33	7.19	5900.00	0.0041	9.06	8.12	16.83	10.50	16.83	10.50
VANO 22	32.18	42.00	510.60	1045.32	2288.11	551.68	31.05	7.61	5900.00	0.0041	4.24	5.92	33.54	8.22	5900.00	0.0041	9.29	8.75	16.83	10.50	16.83	10.50
VANO 22	33.15	43.00	592.29	1067.25	2347.00	620.93	36.01	8.82	5900.00	0.0041	4.33	6.58	37.76	9.25	5900.00	0.0041	9.53	9.39	16.83	10.50	16.83	10.50
VANO 22	34.13	44.00	675.00	1089.36	2407.53	690.13	41.04	10.06	5900.00	0.0041	4.42	7.24	41.96	10.28	5900.00	0.0041	9.77	10.03	16.83	10.50	16.83	10.50
VANO 22	35.10	45.00	758.73	1111.67	2469.70	759.28	46.13	11.30	5900.00	0.0041	4.51	7.91	46.17	11.31	5900.00	0.0041	10.03	10.67	16.83	10.50	16.83	10.84
VANO 22	35.10	46.00	982.91	1111.67	2469.70	983.47	59.77	14.64	5900.00	0.0041	4.51	9.58	59.80	14.65	5900.00	0.0041	10.03	12.34	16.83	10.50	16.83	12.34
VANO 22	36.08	47.00	1067.66	1134.16	2533.50	1052.55	64.92	15.91	5900.00	0.0041	4.60	10.25	64.00	15.68	5900.00	0.0041	10.28	12.98	16.83	10.50	16.83	12.98
VANO 22	37.05	48.00	1153.42	1156.85	2598.94	1121.58	70.13	17.18	5900.00	0.0041	4.70	10.84	68.20	16.71	5900.00	0.0041	10.55	13.63	16.83	10.50	16.83	13.63
VANO 22	38.03	49.00	1240.19	1179.72	2666.13	1190.57	75.41	18.48	5900.00	0.0041	4.79	11.63	72.39	17.74	5900.00	0.0041	10.82	14.28	16.83	10.50	16.83	14.28

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 9 PILA
I	20 008	24.9687
ys	1 495	1 754
yi	2.505	2.246

PRETENSA Exterior		Lanzam.ent	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28 5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0 2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR ZONA CENTRAL

CARACT. RASANTE		CARACTERISTICAS TORSOR			
M est (S4)=	0.57	fyd armad =	40816	Ae =	20.67
Inercia XX =	20.0	fck (t/m2) =	4082	he =	0.25
fyd cercos =	40816	fpk (t/m2) =	190000	ue =	18.55
colg tetha =	1	colg tetha =	1.46	Ap=	0.0342
K rasant =	0.029	Beta comp=	1.44	K tors Tu3 =	1.526
Canto sec=	0.33	K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 1	0.00	1.00	1536.07	865.68	2253.04	1061.72	44.11	10.81	5900.00	0.0041	3.51	7.16	30.49	7.47	5900.00	0.0041	9.15	8.31	9.04	10.50	9.04	10.50
VANO 1	0.98	2.00	1122.11	842.66	2183.96	992.87	32.22	7.89	5900.00	0.0041	3.42	5.66	28.51	6.99	5900.00	0.0041	8.87	7.93	9.04	10.50	9.04	10.50
VANO 1	1.95	3.00	1035.33	819.83	2118.53	923.74	29.73	7.28	5900.00	0.0041	3.33	5.31	26.53	6.50	5900.00	0.0041	8.59	7.55	9.04	10.50	9.04	10.50
VANO 1	2.93	4.00	949 57	797.20	2050 89	854.71	27.27	6.68	5900.00	0.0041	3.24	4.96	24.54	6.01	5900.00	0.0041	8.33	7.17	9.04	10.50	9.04	10.50
VANO 1	3.90	5.00	864 82	774 77	1986 92	785.62	24 83	6.08	5900.00	0.0041	3.14	4.61	22.56	5.53	5900.00	0.0041	8.07	6.80	9.04	10.50	9.04	10.50
VANO 1	3.90	6.00	864 82	774.77	1986 92	785.62	24.83	6.08	5900.00	0.0041	3.14	4.61	22.56	5.53	5900.00	0.0041	8.07	6.80	9.04	10.50	9.04	10.50
VANO 1	4.88	7.00	781 09	752.53	1924 64	716.47	22.43	5.50	5900.00	0.0041	3.05	4.27	20.57	5.04	5900.00	0.0041	7.81	6.43	9.04	10.50	9.04	10.50
VANO 1	5.85	8.00	698 39	730.48	1864 03	647.26	20.05	4.91	5900.00	0.0041	2.97	3.94	18.59	4.55	5900.00	0.0041	7.57	6.06	9.04	10.50	9.04	10.50
VANO 1	6.83	9.00	616.71	708.64	1805 11	578.00	17.71	4.34	5900.00	0.0041	2.88	3.61	16.60	4.07	5900.00	0.0041	7.33	5.70	9.04	10.50	9.04	10.50
VANO 1	7.80	10.00	536 05	686 98	1747 86	508.70	15.39	3.77	5900.00	0.0041	2.79	3.28	14 61	3.58	5900.00	0.0041	7.09	5.34	9.04	10.50	9.04	10.50
VANO 1	7.80	11.00	536.05	686 98	1747 86	508.70	15 39	3.77	5900.00	0.0041	2.79	3.28	14.61	3.58	5900.00	0.0041	7.09	5.34	9.04	10.50	9.04	10.50
VANO 1	8.78	12.00	456.41	665.53	1692 30	439.34	13.11	3.21	5900.00	0.0041	2.70	2.96	12.62	3.09	5900.00	0.0041	6.87	4.98	9.04	10.50	9.04	10.50
VANO 1	9.75	13.00	377 80	644.15	1638 47	369.94	10 85	2.66	5900.00	0.0041	2.61	2.64	10.62	2.60	5900.00	0.0041	6.65	4.63	9.04	10.50	9.04	10.50
VANO 1	10.73	14.00	320 20	406.97	1586 49	300.50	9.19	2.25	5900.00	0.0041	1.65	1.95	8.63	2.11	5900.00	0.0041	6.44	4.28	9.04	10.50	9.04	10.50
VANO 1	11.70	15.00	380.86	394.96	1536 36	231.02	10 94	2 68	5900.00	0.0041	1.60	2.14	6.63	1.63	5900.00	0.0041	6.24	3.93	9.04	10.50	9.04	10.50
VANO 1	11.70	16.00	397 80	394.96	1536 36	214.08	11 42	2.80	5900.00	0.0041	1.60	2.20	6.15	1.51	5900.00	0.0041	6.24	3.87	9.04	10.50	9.04	10.50
VANO 1	12.68	17.00	459 12	382.76	1488 09	144.57	13.18	3.23	5900.00	0.0041	1.55	2.39	4.15	1.02	5900.00	0.0041	6.04	3.53	9.04	10.50	9.04	10.50
VANO 1	13.65	18.00	522.90	446.83	1441 58	75.02	15.02	3.68	5900.00	0.0041	1 81	2 75	2.15	0.53	5900.00	0.0041	5.85	3.19	9.04	10.50	9.04	10.50
VANO 1	14.63	19.00	589 95	430 65	1397 12	5.44	16.94	4.15	5900.00	0.0041	1.75	2.95	0.16	0.04	5900.00	0.0041	5.67	2.85	9.04	10.50	9.04	10.50
VANO 1	15.60	20.00	659 46	414.23	1354 41	65.20	18.94	4 64	5900.00	0.0041	1.68	3 16	1.87	0.46	5900.00	0.0041	5.50	2.98	9.04	10.50	9.04	10.50
VANO 1	16.60	21.00	659 46	414.23	1354.41	65 20	18 94	4 64	5900.00	0.0041	1 68	3.16	1 87	0.46	5900.00	0.0041	5.50	2.98	9.04	10.50	9.04	10.50
VANO 1	16.58	22.00	361 92	397.57	1313.56	135.56	10.39	2.55	5900.00	0.0041	1 61	2.08	3.89	0.95	5900.00	0.0041	5.33	3.14	9.04	10.50	9.04	10.50
VANO 1	17.55	23.00	446.47	409.06	1274 57	205.94	12.82	3.14	5900.00	0.0041	1 66	2 40	5.91	1 45	5900.00	0.0041	5.17	3.31	9.04	10.50	9.04	10.50
VANO 1	18.53	24.00	381 57	402.28	1237 13	276.35	10.96	2 68	5900.00	0.0041	1 63	2.16	7.94	1.94	5900.00	0.0041	5.02	3.48	9.04	10.50	9.04	10.50
VANO 1	19.50	25.00	319 75	426.88	1202.15	346.77	9.18	2.25	5900 00	0.0041	1.73	1.99	9.96	2.44	5900.00	0.0041	4.88	3.66	9.04	10.50	9.04	10.50
VANO 1	19.50	26.00	319 75	426.88	1202 15	346.77	9 18	2.25	5900 00	0.0041	1.73	1.99	9.96	2.44	5900.00	0.0041	4.88	3.66	9.04	10.50	9.04	10.50
VANO 1	20.48	27.00	362 87	328.54	1168.72	417.20	10.42	2 55	5900.00	0 0041	1 33	1.94	11.98	2 94	5900.00	0.0041	4.74	3 84	9.04	10.50	9.04	10.50
VANO 1	21.45	28.00	438 44	310.68	1137.15	487.65	12 59	3 08	5900 00	0 0041	1.26	2.17	14.00	3.43	5900.00	0.0041	4.62	4.02	9.04	10.50	9.04	10.50
VANO 1	22.43	29.00	514 94	292.59	1107 13	558.11	14.79	3 62	5900.00	0 0041	1.19	2.41	16.03	3.93	5900.00	0.0041	4.50	4.21	9.04	10.50	9.04	10.50
VANO 1	23.40	30.00	592 37	282.16	1079 37	628.58	17.01	4.17	5900.00	0 0041	1.15	2.66	18.05	4.42	5900.00	0.0041	4.38	4.40	9.04	10.50	9.04	10.50
VANO 1	23.40	31.00	592 37	282.16	1079 37	628.58	17 01	4.17	5900 00	0.0041	1.15	2.66	18.05	4.42	5900.00	0.0041	4.38	4.40	9.04	10.50	9.04	10.50
VANO 1	24.38	32.00	670.70	273 91	1053.37	699.06	19 26	4.72	5900.00	0.0041	1.11	2.92	20.07	4.92	5900.00	0.0041	4.28	4.60	9.04	10.50	9.04	10.50
VANO 1	25.35	33.00	749.92	265.66	1029 12	769.54	21.53	5.28	5900.00	0.0041	1.08	3.18	22.10	5.41	5900.00	0.0041	4.18	4.80	9.04	10.50	9.04	10.50
VANO 1	26.33	34.00	830.00	257.41	1007.12	840.03	23.83	5.84	5900.00	0.0041	1.04	3.44	24.12	5.91	5900.00	0.0041	4.09	5.00	9.04	10.50	9.04	10.50
VANO 1	27.30	35.00	910 92	249.16	986 98	910.52	26.16	6.41	5900.00	0.0041	1.01	3.71	26.15	6.41	5900.00	0.0041	4.01	5.21	9.04	10.50	9.04	10.50
VANO 1	27.30	36.00	910 92	249.16	986 98	910.52	26.16	6.41	5900.00	0.0041	1.01	3.71	26.15	6.41	5900.00	0.0041	4.01	5.21	9.04	10.50	9.04	10.50
VANO 1	28.28	37.00	992 65	240.91	974 77	953.33	28.50	6.98	5900.00	0.0041	0.98	3.98	27.38	6.71	5900.00	0.0041	3.96	5.33	9.04	10.50	9.04	10.50
VANO 1	29.25	38.00	1075 18	232.66	973 35	1020.65	30.87	7.56	5900.00	0.0041	0.94	4.25	29.31	7.18	5900.00	0.0041	3.95	5.57	9.04	10.50	9.04	10.50
VANO 1	30.23	39.00	1158 47	224.41	975 27	1087.46	33.27	8.15	5900.00	0.0041	0.91	4.53	31.23	7.65	5900.00	0.0041	3.96	5.80	9.04	10.50	9.04	10.50
VANO 1	31.20	40.00	1242.36	216.16	977 69	1153.74	35.67	8.74	5900.00	0.0041	0.88	4.81	33.13	8.12	5900.00	0.0041	3.97	6.04	9.04	10.50	9.04	10.50
VANO 1	31.20	41.00	1242.36	216.16	977 69	1153.74	35.67	8.74	5900.00	0.0041	0.88	4.81	33.13	8.12	5900.00	0.0041	3.97	6.04	9.04	10.50	9.04	10.50
VANO 1	32.18	42.00	1326.76	207.91	980 83	1219.50	38.10	9.33	5900.00	0.0041	0.84	5.09	35.02	8.58	5900.00	0.0041	3.98	6.28	9.04	10.50	9.04	10.50
VANO 1	33.15	43.00	1411 64	199.66	985 29	1285.17	40.54	9.93	5900.00	0.0041	0.81	5.37	36.90	9.04	5900.00	0.0041	4.00	6.52	9.04	10.50	9.04	10.50
VANO 1	34.13	44.00	1496.98	191.41	991. 9	1350.97	42.99	10.53	5900.00	0.0041	0.78	5.65	38.79	9.50	5900.00	0.0041	4.02	6.76	9.04	10.50	9.04	10.50
VANO 1	35.10	45.00	1582.75	183.16	1029 32	1457.58	45.45	11.14	5900.00	0.0041	0.74	5.94	41.85	10.25	5900.00	0.0041	4.18	7.22	9.04	10.50	9.04	10.50
VANO 1	35.10	46.00	1582.75	183.16	1029 32	1457.58	45.45	11.14	5900.00	0.0041	0.74	5.94	41.85	10.25	5900.00	0.0041	4.18	7.22	9.04	10.50	9.04	10.50
VANO 1	36.08	47.00	1668.91	174.91	1074 83	1526.70	47 92	11.74	5900.00	0.0041	0.71	6.23	43.84	10.74	5900.00	0.0041	4.36	7.55	9.04	10.50	9.04	10.50
VANO 1	37.05	48.00	1755.45	173.02	1122. 1	1595.71	50.41	12.35	5900.00	0.0041	0.70	6.53	45.82	11.23	5900.00	0.0041	4.55	7.89	9.04	10.50	9.04	10.50
VANO 1	38.03	49.00	1842.32	186.35	1171.06	1664.60	52.90	12.96	5900.00	0.0041	0.76	6.86	47.80	11.71	5900.00	0.0041	4.75	8.23	9.04	10.50	9.04	10.50
VANO 2	0.00	1.00	2356.78	617.61	2013 43	1717.19	67.68	16.58	5900.00	0.0041	2.51	9.54	49.31	12.08	5900.00	0.0041	8.17	10.13	9.04	10.50	10.13	10.50
VANO 2	1.20	2.00	1841.70	590.63	1937 21	1632.96	52.89	12.96	5900.00	0.0041	2.40	7.68	46.89	11.49	5900.00	0.0041	7.86	9.68	9.04	10.50	9.68	10.50
VANO 2	2.40	3.00	1735.66	563.88	1862 99	1548.60	49.84	12.21	5900.00	0.0041	2.29	7.25	44.47	10.89	5900.00	0.0041	7.56	9.23	9.04	10.50	9.23	10.50
VANO 2	3.60	4.00	1630 21	537.37	1790 17	1464.10	46.81	11.47	5900.00	0.0041	2.18	6.83	42.04	10.30	5900.00	0.0041	7.27	8.78	9.04	10.50	9.04	10.50
VANO 2	4.80	5.00	1525.41	511.09	1720 55	1379.46	43.80	10.73	5900.00	0.0041	2.07	6.40	39.61	9.70	5900.00	0.0041	6.98	8.34	9.04	10.50	9.04	10.50
VANO 2	4.80	6.00	1525.41	511.09	1720 55	1379.46	43.80	10.73	5900.00	0.0041	2.07	6.40	39.61	9.70	5900.00	0.0041	6.98	8.34	9.04	10.50	9.04	10.50
VANO 2	6.00	7.00	1421.30	485.04	1652 23	1294.69	40 81	10.00	5900.00	0.0041	1.97	5.98	37.18	9.11	5900.00	0.0041	6.71	7.91	9.04	10.50	9.04	10.50
VANO 2	7.20	8.00	1317 95	459.23	1586.10	1209.80	37.85	9.27	5900.00	0.0041	1.86	5.57	34.74	8.51	5900.00	0.0041	6.44	7.47	9.04	10.50	9.04	10.50
VANO 2	8.40	9.00	1215.41	433.66	1521 18	1124.79	34.90	8.55	5900.00	0.0041	1.76	5.16	32.30	7.91	5900.00	0.0041	6.18	7.05	9.04	10.50	9.04	10.50
VANO 2	9.60	10.00	1113.72	408.32	1459 66	1039.67	31.98	7.84	5900.00	0.0041	1.66	4.75	29.85	7.31	5900.00	0.0041	5.93	6.62	9.04	10.50	9.04	10.50
VANO 2	9.60	11.00	1113.72	408 32	1459 66	1039.67	31.98	7.84	5900 00	0.0041	1.66	4.75	29.85	7.31	5900.00	0.0041	5.93	6.62	9.04	10.50	9.04	10.50
VANO 2	10.80	12.00	1012.94	383.22	1399 43	954.44	29.09	7.13	5900.00	0.0041	1.56	4.34	27.41	6.71	5900.00	0.0041	5.68	6.20	9.04	10.50	9.04	10.50
VANO 2	12.00	13.00	913 11	358.35	1341 21	869.10	26.22	6.42	5900.00	0.0041	1.45	3.94	24.96	6.11	5900.00	0.0041	5.44	5.78	9.04	10.50	9.04	10.50
VANO 2	13.20	14.00	814 27	333.72	1284 59	783.68	23 38	5.73	5900.00	0.0041	1.35	3.54	22.50	5.51	5900.00	0.0041	5.22	5.36	9.04	10.50	9.04	10.50
VANO 2	14.40	15.00	716 46	309.32	1230 76	698 16	20.57	5.04	5900.00	0.0041	1.26	3.15	20.05	4.91	5900.00	0.0041	5.00	4.95	9.04	10.50	9.04	10.50
VANO 2	14.40	16.00	699 51	309.32	1230.76	681.22	20 09	4.92	5900 00	0.0041	1.26	3.09	19 56	4.79	5900.00	0.0041	5.00	4.89	9.04	10.50	9.04	10.50
VANO 2	15.60	17.00	602 77	285.15	1178 54	595.63	17.31	4.24	5900.00	0.0041	1.16	2.70	17.10	4.19	5900.00	0.0041	4.78	4.49	9.04	10.50	9.04	10.50
VANO 2	16 80	18.00	507 13	261.23	1128.31	509.97	14.56	3.57	5900 00	0.0041	1.06	2.31	14.64	3.59	5900.00	0.0041	4.58	4.08	9.04	10.50	9.04	10.50
VANO 2	18 00	19.00	412 61	237.53	1080 09	424.25	11.85	2.90	5900 00	0.0041	0.96	1.93	12.18	2.98	5900.00	0.0041	4.38	3.68	9.04	10.50	9.04	10.50
VANO 2	19 20	20.00	455.14	82.80	1033.57	338.47	13.07	3.20	5900.00	0.0041	0.34	1.77	9.72	2.38	5900.00	0.0041	4.20	3.29	9.04	10.50	9.04	10.50
VANO 2	19.20	21.00	455.14	82.80	1033.57	338.47	13.07	3.20	5900.00	0.0041	0.34	1.77	9.72	2.38	5900.00	0.0041	4.20	3.29	9.04	10.50	9.04	10.50
VANO 2	20.40	22.00	535.31	72.81	990 07	252.66	15.37	3.77	5900.00	0.0041	0.30	2.03	7.26	1.78	5900.00	0.0041	4.02	2.90	9.04	10.50	9.04	10.50
VANO 2	21.60	23.00	617.24	62.83	948.37	166.81	17.72	4.34	5900.00	0.0041	0.26	2.30	4.79	1.17	5900.00	0.0041	3.85	2.51	9.04	10.50	9.04	10.50
VANO 2	22.80	24.00	700.51	52.85	908.83	80.94	20.12	4.93	5900.00	0.0041	0.21	2.57	2.32	0.57	5900.00	0.0041	3.69	2.13	9.04	10.50	9.04	10.50
VANO 2	24.00	25.00	376.61	47.91	871.63	6.27	10.81	2.65	5900.00	0.0041	0.19	1.42	0.18	0.04	5900.00	0.0041	3.54	1.79	9.04	10.50	9.04	10.50
VANO 2	24.00	26.00	376.61	47.91	871.63	6.27	10.81	2.65	5900.00	0.0041	0.19	1.42	0.18	0.04	5900.00	0.0041	3.54	1.79	9.04	10.50	9.04	10.50
VANO 2	25.20	27.00	691.35	100.07	836.58	93.05	19.85	4.86	5900.00	0.0041	0.41	2.64	2.67	0.65	5900.00	0.0041	3.40	2.03	9.04	10.50	9.04	10.50
VANO 2	26.40	28.00	607.79	78.15	814.43	179.84	17.45	4.28	5900.00	0.0041	0.32	2.30	5.16	1.27	5900.00	0.0041	3.31	2.29	9.04	10.50	9.04	10.50
VANO 2	27.60	29.00	525.56	56.53	845.33	263.89	15.09	3.70	5900.00	0.0041	0.23	1.96	7.58	1.86	5900.00	0.0041	3.43	2.64	9.04	10.50	9.04	10.50
VANO 2	28.80	30.00	446.03	67.00	880.25	349.73	12.81	3.14	5900.00	0.0041	0.27	1.70	10.04	2.46	5900.00	0.0041	3.57	3.02	9.04	10.50	9.04	10.50
VANO 2	28.80	31.00	446.03	67.00	880.25	349.73	12.81	3.14	5900.00	0.0041	0.27	1.70	10.04	2.46	5900.00	0.0041	3.57	3.02	9.04	10.50	9.04	10.50
VANO 2	30.00	32.00	420.06	120.77	922 23	435.54	12.06	2.96	5900.00	0.0041	0.49	1.72	12.51	3.06	5900.00	0.0041	3.74	3.40	9.04	10.50	9.04	10.50
VANO 2	31.20	33.00	514.30	143.84	969 12	521.30	14.77	3.62	5900.00	0.0041	0.58	2.10	14.97	3.67	5900.00	0.0041	3.93	3.80	9.04	10.50	9.04	10.50
VANO 2	32.40	34.00	609.68	167.69	1018.51	607.01	17.51	4.29	5900.00	0.0041	0.68	2.48	17.43	4.27	5900.00	0.0041	4.13	4.20	9.04	10.50	9.04	10.50
VANO 2	33.60	35.00	706.18	191.77	1069.92	692.65	20.28	4.97	5900.00	0.0041	0.78	2.87	19.89	4.87	5900.00	0.0041	4.34	4.61	9.04	10.50	9.04	10.50
VANO 2	33.60	36.00	706.18	191.77	1069.92	692.65	20.28	4.97	5900.00	0.0041	0.78	2.87	19.89	4.87	5900.00	0.0041	4.34	4.61	9.04	10.50	9.04	10.50
VANO 2	34.80	37.00	803.77	216.09	1123.33	778.23	23.08	5.65	5900.00	0.0041	0.88	3.27	22.35	5.48	5900.00	0.0041	4.56	5.02	9.04	10.50	9.04	10.50
VANO 2	36.00	38.00	902.40	240.65	1178.71	863.72	25.91	6.35	5900.00	0.0041	0.98	3.66	24.80	6.08	5900.00	0.0041	4.78	5.43	9.04	10.50	9.04	10.50
VANO 2	37.20	39.00	1002 05	265.44	1236 19	949.13	28.77	7.05	5900.00	0.0041	1.08	4.06	27.25	6.68	5900.00	0.0041	5.02	5.85	9.04	10.50	9.04	10.50
VANO 2	38.40	40.00	1102.66	290.46	1295.53	1034.45	31.66	7.76	5900.00	0.0041	1.18	4.47	29.70	7.28	5900.00	0.0041	5.26	6.27	9.04	10.50	9.04	10.50
VANO 2	38.40	41.00	1102.66	290.46	1295.53	1034.45	31.66	7.76	5900.00	0.0041	1.18	4.47	29.70	7.28	5900.00	0.0041	5.26	6.27	9.04	10.50	9.04	10.50
VANO 2	39.60	42.00	1204.20	315.73	1357.02	1119.66	34.58	8.47	5900.00	0.0041	1.28	4.88	32.15	7.88	5900.00	0.0041	5.51	6.69	9.04	10.50	9.04	10.50
VANO 2	40.80	43.00	1306.63	341.22	1420.46	1204.77	37.52	9.19	5900.00	0.0041	1.39	5.29	34.60	8.48	5900.00	0.0041	5.77	7.12	9.04	10.50	9.04	10.50
VANO 2	42.00	44.00	1409.89	366.95	1485.9	1289.76	40.49	9.92	5900.00	0.0041	1.49	5.70	37.04	9.07	5900.00	0.0041	6.03	7.55	9.04	10.50	9.04	10.50
VANO 2	43.20	45.00	1513.93	392.92	1553.36	1374.64	43.47	10.65	5900.00	0.0041	1.59	6.12	39.47	9.67	5900.00	0.0041	6.31	7.99	9.04	10.50	9.04	10.50
VANO 2	43.20	46.00	1513.93	392.92	1553.36	1374.64	43.47	10.65	5900.00	0.0041	1.59	6.12	39.47	9.67	5900.00	0.0041	6.31	7.99	9.04	10.50	9.04	10.50
VANO 2	44.40	47.00	1618.70	419.12	1622.82	1459.39	46.48	11.39	5900.00	0.0041	1.70	6.54	41.91	10.27	5900.00	0.0041	6.59	8.43	9.04	10.50	9.04	10.50
VANO 2	45.60	48.00	1724.14	445.56	1694.29	1544.02	49.51	12.13	5900.00	0.0041	1.81	6.97	44.34	10.86	5900.00	0.0041	6.88	8.87	9.04	10.50	9.04	10.50
VANO 2	46.80	49.00	1830.20	472.23	1767.76	1628.52	52.55	12.88	5900.00	0.0041	1.92	7.40	46.78	11.46	5900.00	0.0041	7.18	9.32	9.04	10.50	9.32	10.50

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzam ent	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR ZONA CENTRAL

CARACT. RASANTE

M est (S4)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816	Ae =	20.67
fck (t/m2) =	4082	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

			Hipótesis max cortante		Hipótesis max torsor		Dos caras				Una cara	Dos caras				Una cara	FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 3	0.00	1.00	2355.00	466.74	1897.96	1696.24	67.62	16.57	5900.00	0.0041	1.89	9.23	48.71	11.93	5900.00	0.0041	7.70	9.82	9.04	10.50	9.82	10.50
VANO 3	1.20	2.00	1839.90	440.21	1823.49	1611.91	52.83	12.94	5900.00	0.0041	1.79	7.37	46.29	11.34	5900.00	0.0041	7.40	9.37	9.04	10.50	9.37	10.50
VANO 3	2.40	3.00	1733.86	413.92	1751.02	1527.45	49.79	12.20	5900.00	0.0041	1.68	6.94	43.86	10.75	5900.00	0.0041	7.11	8.93	9.04	10.50	9.04	10.50
VANO 3	3.60	4.00	1628.42	387.86	1680.52	1442.85	46.76	11.46	5900.00	0.0041	1.57	6.52	41.43	10.15	5900.00	0.0041	6.82	8.49	9.04	10.50	9.04	10.50
VANO 3	4.80	5.00	1523.64	362.04	1612.01	1358.13	43.75	10.72	5900.00	0.0041	1.47	6.09	39.00	9.55	5900.00	0.0041	6.54	8.05	9.04	10.50	9.04	10.50
VANO 3	4.80	6.00	1523.64	362.04	1612.01	1358.13	43.75	10.72	5900.00	0.0041	1.47	6.09	39.00	9.55	5900.00	0.0041	6.54	8.05	9.04	10.50	9.04	10.50
VANO 3	6.00	7.00	1419.57	336.45	1545.49	1273.28	40.76	9.99	5900.00	0.0041	1.37	5.68	36.56	8.96	5900.00	0.0041	6.27	7.62	9.04	10.50	9.04	10.50
VANO 3	7.20	8.00	1316.27	311.09	1480.95	1188.31	37.80	9.26	5900.00	0.0041	1.26	5.26	34.12	8.36	5900.00	0.0041	6.01	7.19	9.04	10.50	9.04	10.50
VANO 3	8.40	9.00	1213.78	286.83	1419.26	1103.23	34.85	8.54	5900.00	0.0041	1.16	4.85	31.68	7.76	5900.00	0.0041	5.76	6.76	9.04	10.50	9.04	10.50
VANO 3	9.60	10.00	1112.16	264.36	1361.11	1018.04	31.94	7.82	5900.00	0.0041	1.07	4.45	29.23	7.16	5900.00	0.0041	5.53	6.34	9.04	10.50	9.04	10.50
VANO 3	9.60	11.00	1112.16	264.36	1361.11	1018.04	31.94	7.82	5900.00	0.0041	1.07	4.45	29.23	7.16	5900.00	0.0041	5.53	6.34	9.04	10.50	9.04	10.50
VANO 3	10.80	12.00	1011.44	242.12	1304.95	932.75	29.04	7.12	5900.00	0.0041	0.98	4.05	26.78	6.56	5900.00	0.0041	5.30	5.93	9.04	10.50	9.04	10.50
VANO 3	12.00	13.00	911.67	220.11	1250.77	847.37	26.18	6.41	5900.00	0.0041	0.89	3.65	24.33	5.96	5900.00	0.0041	5.08	5.52	9.04	10.50	9.04	10.50
VANO 3	13.20	14.00	812.90	198.34	1198.58	761.89	23.34	5.72	5900.00	0.0041	0.81	3.26	21.88	5.36	5900.00	0.0041	4.87	5.11	9.04	10.50	9.04	10.50
VANO 3	14.40	15.00	715.16	176.80	1148.37	676.33	20.54	5.03	5900.00	0.0041	0.72	2.87	19.42	4.76	5900.00	0.0041	4.66	4.71	9.04	10.50	9.04	10.50
VANO 3	14.40	16.00	698.21	176.80	1148.37	659.38	20.05	4.91	5900.00	0.0041	0.72	2.81	18.93	4.64	5900.00	0.0041	4.66	4.65	9.04	10.50	9.04	10.50
VANO 3	15.60	17.00	601.53	155.99	1100.54	573.75	17.27	4.23	5900.00	0.0041	0.63	2.43	16.48	4.04	5900.00	0.0041	4.47	4.25	9.04	10.50	9.04	10.50
VANO 3	16.80	18.00	505.95	135.80	1055.29	488.05	14.53	3.56	5900.00	0.0041	0.55	2.06	14.01	3.43	5900.00	0.0041	4.28	3.86	9.04	10.50	9.04	10.50
VANO 3	18.00	19.00	428.34	25.29	1011.93	402.29	12.30	3.01	5900.00	0.0041	0.10	1.56	11.55	2.83	5900.00	0.0041	4.11	3.47	9.04	10.50	9.04	10.50
VANO 3	19.20	20.00	507.44	58.74	974.31	316.48	14.57	3.57	5900.00	0.0041	0.24	1.90	9.09	2.23	5900.00	0.0041	3.95	3.09	9.04	10.50	9.04	10.50
VANO 3	19.20	21.00	507.44	58.74	974.31	316.48	14.57	3.57	5900.00	0.0041	0.24	1.90	9.09	2.23	5900.00	0.0041	3.95	3.09	9.04	10.50	9.04	10.50
VANO 3	20.40	22.00	588.12	79.95	941.67	230.63	16.89	4.14	5900.00	0.0041	0.32	2.23	6.62	1.62	5900.00	0.0041	3.82	2.72	9.04	10.50	9.04	10.50
VANO 3	21.60	23.00	670.11	101.44	924.41	146.30	19.24	4.71	5900.00	0.0041	0.41	2.56	4.20	1.03	5900.00	0.0041	3.75	2.39	9.04	10.50	9.04	10.50
VANO 3	22.80	24.00	753.43	123.22	943.42	59.50	21.64	5.30	5900.00	0.0041	0.50	2.90	1.71	0.42	5900.00	0.0041	3.83	2.12	9.04	10.50	9.04	10.50
VANO 3	24.00	25.00	430.06	145.28	978.19	32.06	12.35	3.03	5900.00	0.0041	0.59	1.81	0.92	0.23	5900.00	0.0041	3.97	2.10	9.04	10.50	9.04	10.50
VANO 3	24.00	26.00	430.06	145.28	978.19	32.06	12.35	3.03	5900.00	0.0041	0.59	1.81	0.92	0.23	5900.00	0.0041	3.97	2.10	9.04	10.50	9.04	10.50
VANO 3	25.20	27.00	691.04	83.74	1015.56	117.97	19.84	4.86	5900.00	0.0041	0.34	2.60	3.39	0.83	5900.00	0.0041	4.12	2.48	9.04	10.50	9.04	10.50
VANO 3	26.40	28.00	607.51	93.48	1055.14	203.88	17.44	4.27	5900.00	0.0041	0.38	2.33	5.85	1.43	5900.00	0.0041	4.28	2.86	9.04	10.50	9.04	10.50
VANO 3	27.60	29.00	525.32	103.23	1096.31	289.78	15.08	3.70	5900.00	0.0041	0.42	2.06	8.32	2.04	5900.00	0.0041	4.45	3.25	9.04	10.50	9.04	10.50
VANO 3	28.80	30.00	444.44	112.97	1140.88	375.65	12.76	3.13	5900.00	0.0041	0.46	1.79	10.79	2.64	5900.00	0.0041	4.63	3.64	9.04	10.50	9.04	10.50
VANO 3	28.80	31.00	444.44	112.97	1140.98	375.65	12.76	3.13	5900.00	0.0041	0.46	1.79	10.79	2.64	5900.00	0.0041	4.63	3.64	9.04	10.50	9.04	10.50
VANO 3	30.00	32.00	473.68	259.78	1187.35	461.48	13.60	3.33	5900.00	0.0041	1.05	2.19	13.25	3.25	5900.00	0.0041	4.82	4.03	9.04	10.50	9.04	10.50
VANO 3	31.20	33.00	567.95	283.28	1235.32	547.27	16.31	4.00	5900.00	0.0041	1.15	2.57	15.72	3.85	5900.00	0.0041	5.01	4.43	9.04	10.50	9.04	10.50
VANO 3	32.40	34.00	663.35	307.02	1285.57	633.01	19.05	4.67	5900.00	0.0041	1.25	2.96	18.18	4.45	5900.00	0.0041	5.22	4.84	9.04	10.50	9.04	10.50
VANO 3	33.60	35.00	759.86	330.99	1337.30	718.69	21.82	5.35	5900.00	0.0041	1.34	3.34	20.64	5.06	5900.00	0.0041	5.43	5.24	9.04	10.50	9.04	10.50
VANO 3	33.60	36.00	759.86	330.99	1337.30	718.69	21.82	5.35	5900.00	0.0041	1.34	3.34	20.64	5.06	5900.00	0.0041	5.43	5.24	9.04	10.50	9.04	10.50
VANO 3	34.80	37.00	857.46	355.19	1392.03	804.29	24.62	6.03	5900.00	0.0041	1.44	3.74	23.10	5.66	5900.00	0.0041	5.65	5.65	9.04	10.50	9.04	10.50
VANO 3	36.00	38.00	956.09	379.62	1448.24	889.82	27.45	6.73	5900.00	0.0041	1.54	4.13	25.55	6.26	5900.00	0.0041	5.88	6.07	9.04	10.50	9.04	10.50
VANO 3	37.20	39.00	1055.74	404.29	1506.14	975.27	30.32	7.43	5900.00	0.0041	1.64	4.53	28.01	6.86	5900.00	0.0041	6.11	6.49	9.04	10.50	9.04	10.50
VANO 3	38.40	40.00	1156.36	429.19	1566.33	1060.62	33.21	8.14	5900.00	0.0041	1.74	4.94	30.46	7.46	5900.00	0.0041	6.36	6.91	9.04	10.50	9.04	10.50
VANO 3	38.40	41.00	1156.36	429.19	1566.33	1060.62	33.21	8.14	5900.00	0.0041	1.74	4.94	30.46	7.46	5900.00	0.0041	6.36	6.91	9.04	10.50	9.04	10.50
VANO 3	39.60	42.00	1257.90	454.32	1628.30	1145.87	36.12	8.85	5900.00	0.0041	1.84	5.35	32.90	8.06	5900.00	0.0041	6.61	7.34	9.04	10.50	9.04	10.50
VANO 3	40.80	43.00	1360.33	479.69	1692.36	1231.02	39.06	9.57	5900.00	0.0041	1.95	5.76	35.35	8.66	5900.00	0.0041	6.87	7.77	9.04	10.50	9.04	10.50
VANO 3	42.00	44.00	1463.60	505.28	1759.11	1316.05	42.03	10.30	5900.00	0.0041	2.05	6.17	37.79	9.26	5900.00	0.0041	7.14	8.20	9.04	10.50	9.04	10.50
VANO 3	43.20	45.00	1567.65	531.11	1827.34	1400.98	45.02	11.03	5900.00	0.0041	2.16	6.59	40.23	9.86	5900.00	0.0041	7.42	8.64	9.04	10.50	9.04	10.50
VANO 3	43.20	46.00	1567.65	531.11	1827.34	1400.98	45.02	11.03	5900.00	0.0041	2.16	6.59	40.23	9.86	5900.00	0.0041	7.42	8.64	9.04	10.50	9.04	10.50
VANO 3	44.40	47.00	1672.44	557.17	1897.37	1485.78	48.02	11.77	5900.00	0.0041	2.26	7.01	42.66	10.45	5900.00	0.0041	7.70	9.08	9.04	10.50	9.08	10.50
VANO 3	45.60	48.00	1777.91	583.47	1969.18	1570.45	51.05	12.51	5900.00	0.0041	2.37	7.44	45.10	11.05	5900.00	0.0041	7.99	9.52	9.04	10.50	9.52	10.50
VANO 3	46.80	49.00	1884.01	609.99	2043.37	1655.00	54.10	13.25	5900.00	0.0041	2.48	7.87	47.52	11.64	5900.00	0.0041	8.30	9.97	9.04	10.50	9.97	10.50
VANO 3	48.00	50.00	2000.20	636.75	2118.67	1739.41	56.80	13.88	5900.00	0.0041	2.58	8.73	49.95	12.24	5900.00	0.0041	8.60	10.42	9.04	10.50	10.42	10.50
VANO 4	0.00	1.00	2490.73	631.03	2164.17	1815.11	71.52	17.52	5900.00	0.0041	2.56	10.04	52.12	12.77	5900.00	0.0041	8.79	10.78	9.04	10.50	10.78	10.78
VANO 4	1.28	2.00	1995.10	602.55	2083.12	1725.71	57.29	14.04	5900.00	0.0041	2.45	8.24	49.55	12.14	5900.00	0.0041	8.46	10.30	9.04	10.50	10.30	10.50
VANO 4	2.55	3.00	1882.70	574.32	2005.11	1636.17	54.06	13.25	5900.00	0.0041	2.33	7.79	46.98	11.51	5900.00	0.0041	8.14	9.82	9.04	10.50	9.82	10.50
VANO 4	3.83	4.00	1770.91	546.34	1928.13	1546.49	50.85	12.46	5900.00	0.0041	2.22	7.34	44.41	10.88	5900.00	0.0041	7.83	9.35	9.04	10.50	9.35	10.50
VANO 4	5.10	5.00	1659.81	518.61	1853.10	1456.67	47.66	11.68	5900.00	0.0041	2.11	6.89	41.83	10.25	5900.00	0.0041	7.52	8.89	9.04	10.50	9.04	10.50
VANO 4	5.10	6.00	1659.81	518.61	1853.10	1456.67	47.66	11.68	5900.00	0.0041	2.11	6.89	41.83	10.25	5900.00	0.0041	7.52	8.89	9.04	10.50	9.04	10.50
VANO 4	6.38	7.00	1549.46	491.13	1781.10	1366.72	44.49	10.90	5900.00	0.0041	1.99	6.45	39.25	9.62	5900.00	0.0041	7.23	8.42	9.04	10.50	9.04	10.50
VANO 4	7.65	8.00	1439.90	463.93	1710.05	1276.63	41.35	10.13	5900.00	0.0041	1.88	6.01	36.66	8.98	5900.00	0.0041	6.94	7.96	9.04	10.50	9.04	10.50
VANO 4	8.93	9.00	1331.20	437.02	1642.00	1186.42	38.23	9.37	5900.00	0.0041	1.77	5.57	34.07	8.35	5900.00	0.0041	6.67	7.51	9.04	10.50	9.04	10.50
VANO 4	10.20	10.00	1223.40	410.37	1576.19	1096.09	35.13	8.61	5900.00	0.0041	1.67	5.14	31.47	7.71	5900.00	0.0041	6.40	7.06	9.04	10.50	9.04	10.50
VANO 4	10.20	11.00	1223.40	410.37	1576.19	1096.09	35.13	8.61	5900.00	0.0041	1.67	5.14	31.47	7.71	5900.00	0.0041	6.40	7.06	9.04	10.50	9.04	10.50
VANO 4	11.48	12.00	1116.56	383.97	1512.22	1005.65	32.06	7.86	5900.00	0.0041	1.56	4.71	28.88	7.08	5900.00	0.0041	6.14	6.61	9.04	10.50	9.04	10.50
VANO 4	12.75	13.00	1010.73	357.82	1450.18	915.10	29.02	7.11	5900.00	0.0041	1.45	4.28	26.28	6.44	5900.00	0.0041	5.89	6.16	9.04	10.50	9.04	10.50
VANO 4	14.03	14.00	905.94	331.92	1391.18	824.45	26.01	6.37	5900.00	0.0041	1.35	3.86	23.67	5.80	5900.00	0.0041	5.65	5.72	9.04	10.50	9.04	10.50
VANO 4	15.30	15.00	802.23	306.27	1333.12	733.71	23.04	5.64	5900.00	0.0041	1.24	3.44	21.07	5.16	5900.00	0.0041	5.41	5.29	9.04	10.50	9.04	10.50
VANO 4	15.30	16.00	785.29	306.27	1333.12	716.77	22.55	5.52	5900.00	0.0041	1.24	3.38	20.58	5.04	5900.00	0.0041	5.41	5.23	9.04	10.50	9.04	10.50
VANO 4	16.58	17.00	682.71	280.87	1278.19	625.95	19.60	4.80	5900.00	0.0041	1.14	2.97	17.97	4.40	5900.00	0.0041	5.19	4.80	9.04	10.50	9.04	10.50
VANO 4	17.85	18.00	581.29	255.72	1225.41	535.05	16.69	4.09	5900.00	0.0041	1.04	2.56	15.36	3.76	5900.00	0.0041	4.97	4.37	9.04	10.50	9.04	10.50
VANO 4	19.13	19.00	481.07	230.81	1174.26	444.08	13.81	3.38	5900.00	0.0041	0.94	2.16	12.75	3.12	5900.00	0.0041	4.77	3.95	9.04	10.50	9.04	10.50
VANO 4	20.40	20.00	455.81	79.65	1125.44	353.07	13.09	3.21	5900.00	0.0041	0.32	1.77	10.14	2.48	5900.00	0.0041	4.57	3.53	9.04	10.50	9.04	10.50
VANO 4	20.40	21.00	455.81	79.65	1125.44	353.07	13.09	3.21	5900.00	0.0041	0.32	1.77	10.14	2.48	5900.00	0.0041	4.57	3.53	9.04	10.50	9.04	10.50
VANO 4	21.68	22.00	541.45	69.27	1078.30	262.00	15.55	3.81	5900.00	0.0041	0.28	2.05	7.52	1.84	5900.00	0.0041	4.38	3.11	9.04	10.50	9.04	10.50
VANO 4	22.95	23.00	628.50	58.90	1034.20	170.90	18.05	4.42	5900.00	0.0041	0.24	2.33	4.91	1.20	5900.00	0.0041	4.20	2.70	9.04	10.50	9.04	10.50
VANO 4	24.23	24.00	716.97	48.52	992.26	79.78	20.59	5.04	5900.00	0.0041	0.20	2.62	2.29	0.56	5900.00	0.0041	4.03	2.29	9.04	10.50	9.04	10.50
VANO 4	25.50	25.00	424.70	60.28	952.58	28.92	12.20	2.99	5900.00	0.0041	0.24	1.62	0.83	0.20	5900.00	0.0041	3.87	2.04	9.04	10.50	9.04	10.50
VANO 4	25.50	26.00	424.70	60.28	952.58	28.92	12.20	2.99	5900.00	0.0041	0.24	1.62	0.83	0.20	5900.00	0.0041	3.87	2.04	9.04	10.50	9.04	10.50
VANO 4	26.78	27.00	675.10	86.26	923.34	121.02	19.39	4.75	5900.00	0.0041	0.35	2.55	3.48	0.85	5900.00	0.0041	3.75	2.30	9.04	10.50	9.04	10.50
VANO 4	28.05	28.00	586.33	63.24	952.41	210.95	16.84	4.13	5900.00	0.0041	0.26	2.19	6.06	1.48	5900.00	0.0041	3.87	2.68	9.04	10.50	9.04	10.50
VANO 4	29.33	29.00	498.98	41.39	992.68	302.06	14.33	3.51	5900.00	0.0041	0.17	1.84	8.67	2.13	5900.00	0.0041	4.03	3.08	9.04	10.50	9.04	10.50
VANO 4	30.60	30.00	423.44	133.99	1035.31	393.15	12.16	2.98	5900.00	0.0041	0.54	1.76	11.29	2.77	5900.00	0.0041	4.20	3.48	9.04	10.50	9.04	10.50
VANO 4	30.60	31.00	423.44	133.99	1035.31	393.15	12.16	2.98	5900.00	0.0041	0.54	1.76	11.29	2.77	5900.00	0.0041	4.20	3.48	9.04	10.50	9.04	10.50
VANO 4	31.88	32.00	522.17	158.28	1082.51	484.19	14.99	3.67	5900.00	0.0041	0.64	2.16	13.90	3.41	5900.00	0.0041	4.39	3.90	9.04	10.50	9.04	10.50
VANO 4	33.15	33.00	622.13	183.11	1132.12	575.18	17.86	4.38	5900.00	0.0041	0.74	2.56	16.52	4.05	5900.00	0.0041	4.60	4.32	9.04	10.50	9.04	10.50
VANO 4	34.43	34.00	723.29	208.18	1183.87	666.12	20.77	5.09	5900.00	0.0041	0.85	2.97	19.13	4.69	5900.00	0.0041	4.81	4.75	9.04	10.50	9.04	10.50
VANO 4	35.70	35.00	825.63	233.51	1237.75	756.98	23.71	5.81	5900.00	0.0041	0.95	3.38	21.74	5.33	5900.00	0.0041	5.02	5.17	9.04	10.50	9.04	10.50
VANO 4	35.70	36.00	825.63	233.51	1237.75	756.98	23.71	5.81	5900.00	0.0041	0.95	3.38	21.74	5.33	5900.00	0.0041	5.02	5.17	9.04	10.50	9.04	10.50
VANO 4	36.98	37.00	929.11	259.09	1293.77	847.76	26.68	6.54	5900.00	0.0041	1.05	3.79	24.34	5.96	5900.00	0.0041	5.25	5.61	9.04	10.50	9.04	10.50
VANO 4	38.25	38.00	1033.69	284.92	1351.93	938.46	29.68	7.27	5900.00	0.0041	1.16	4.21	26.95	6.60	5900.00	0.0041	5.49	6.05	9.04	10.50	9.04	10.50
VANO 4	39.53	39.00	1139.33	310.99	1412.22	1029.06	32.72	8.02	5900.00	0.0041	1.26	4.64	29.55	7.24	5900.00	0.0041	5.73	6.49	9.04	10.50	9.04	10.50
VANO 4	40.80	40.00	1246.00	337.32	1474.61	1119.57	35.78	8.77	5900.00	0.0041	1.37	5.07	32.15	7.88	5900.00	0.0041	5.99	6.93	9.04	10.50	9.04	10.50
VANO 4	40.80	41.00	1246.00	337.32	1474.61	1119.57	35.78	8.77	5900.00	0.0041	1.37	5.07	32.15	7.88	5900.00	0.0041	5.99	6.93	9.04	10.50	9.04	10.50
VANO 4	42.08	42.00	1353.64	363.90	1539.23	1209.96	38.87	9.52	5900.00	0.0041	1.48	5.50	34.74	8.51	5900.00	0.0041	6.25	7.38	9.04	10.50	9.04	10.50
VANO 4	43.35	43.00	1462.20	390.73	1605.83	1300.23	41.99	10.29	5900.00	0.0041	1.59	5.94	37.34	9.15	5900.00	0.0041	6.52	7.83	9.04	10.50	9.04	10.50
VANO 4	44.63	44.00	1559.90	417.80	1674.72	1388.72	44.79	10.97	5900.00	0.0041	1.70	6.34	39.88	9.77	5900.00	0.0041	6.80	8.28	9.04	10.50	9.04	10.50
VANO 4	45.90	45.00	1664.60	445.13	1745.63	1478.75	47.80	11.71	5900.00	0.0041	1.81	6.76	42.46	10.40	5900.00	0.0041	7.09	8.74	9.04	10.50	9.04	10.50
VANO 4	45.90	46.00	1664.60	445.13	1745.63	1478.75	47.80	11.71	5900.00	0.0041	1.81	6.76	42.46	10.40	5900.00	0.0041	7.09	8.74	9.04	10.50	9.04	10.50
VANO 4	47.18	47.00	1775.63	472.71	1818.73	1568.65	50.99	12.49	5900.00	0.0041	1.92	7.21	45.04	11.04	5900.00	0.0041	7.38	9.21	9.04	10.50	9.21	10.50
VANO 4	48.45	48.00	1887.37	500.54	1894.02	1658.41	54.20	13.28	5900.00	0.0041	2.03	7.65	47.62	11.67	5900.00	0.0041	7.69	9.68	9.04	10.50	9.68	10.50
VANO 4	49.73	49.00	1999.76	528.62	1971.34	1748.03	57.42	14.07	5900.00	0.0041	2.15	8.11	50.20	12.30	5900.00	0.0041	8.00	10.15	9.04	10.50	10.15	10.50

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
t	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR ZONA CENTRAL

CARACT. RASANTE	
M est (S4)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
colg tetha =	1
K rasant =	0.029
Canto sec=	0.33

CARACTERISTICAS TORSOR			
fyd armad =	40816	Ae =	20.87
fck (t/m2) =	4082	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
colg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

			Hipótesis max cortante		Hipótesis max torsor		Dos caras					Dos caras					Una cara	FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 5	0.00	1.00	2471.64	701.27	2252.71	1844.60	70.97	17.39	5900.00	0.0041	2.85	10.12	52.97	12.98	5900.00	0.0041	9.14	11.06	9.04	10.50	11.06	11.06
VANO 5	1.28	2.00	1976.01	672.69	2172.25	1755.13	56.74	13.90	5900.00	0.0041	2.73	8.32	50.40	12.35	5900.00	0.0041	8.82	10.58	9.04	10.50	10.58	10.58
VANO 5	2.56	3.00	1863.62	644.35	2093.91	1665.51	53.51	13.11	5900.00	0.0041	2.62	7.86	47.83	11.72	5900.00	0.0041	8.50	10.11	9.04	10.50	10.11	10.50
VANO 5	3.83	4.00	1762.93	616.27	2017.69	1575.76	50.62	12.40	5900.00	0.0041	2.50	7.45	45.25	11.09	5900.00	0.0041	8.19	9.64	9.04	10.50	9.64	10.50
VANO 5	5.10	5.00	1665.21	588.45	1943.60	1485.86	47.82	11.72	5900.00	0.0041	2.39	7.05	42.67	10.45	5900.00	0.0041	7.89	9.17	9.04	10.50	9.17	10.50
VANO 5	5.10	6.00	1665.21	588.45	1943.60	1485.86	47.82	11.72	5900.00	0.0041	2.39	7.05	42.67	10.45	5900.00	0.0041	7.89	9.17	9.04	10.50	9.17	10.50
VANO 5	6.38	7.00	1568.26	560.93	1871.69	1395.84	45.03	11.03	5900.00	0.0041	2.28	6.66	40.08	9.82	5900.00	0.0041	7.60	8.71	9.04	10.50	9.04	10.50
VANO 5	7.65	8.00	1470.56	533.67	1801.90	1307.36	42.23	10.35	5900.00	0.0041	2.17	6.26	37.54	9.20	5900.00	0.0041	7.31	8.26	9.04	10.50	9.04	10.50
VANO 5	8.93	9.00	1361.99	506.65	1734.23	1217.08	39.11	9.58	5900.00	0.0041	2.06	5.82	34.95	8.56	5900.00	0.0041	7.04	7.80	9.04	10.50	9.04	10.50
VANO 5	10.20	10.00	1254.35	479.88	1668.67	1126.70	36.02	8.82	5900.00	0.0041	1.95	5.39	32.35	7.93	5900.00	0.0041	6.77	7.35	9.04	10.50	9.04	10.50
VANO 5	10.20	11.00	1254.35	479.88	1668.67	1126.70	36.02	8.82	5900.00	0.0041	1.95	5.39	32.35	7.93	5900.00	0.0041	6.77	7.35	9.04	10.50	9.04	10.50
VANO 5	11.48	12.00	1147.66	452.96	1604.83	1036.20	32.96	8.07	5900.00	0.0041	1.84	4.96	29.75	7.29	5900.00	0.0041	6.51	6.90	9.04	10.50	9.04	10.50
VANO 5	12.75	13.00	1042.03	426.60	1543.44	945.60	29.92	7.33	5900.00	0.0041	1.73	4.53	27.15	6.65	5900.00	0.0041	6.27	6.46	9.04	10.50	9.04	10.50
VANO 5	14.03	14.00	937.44	400.50	1484.16	854.91	26.92	6.60	5900.00	0.0041	1.63	4.11	24.55	6.01	5900.00	0.0041	6.02	6.02	9.04	10.50	9.04	10.50
VANO 5	15.30	15.00	833.95	374.65	1427.00	764.13	23.95	5.87	5900.00	0.0041	1.52	3.69	21.94	5.38	5900.00	0.0041	5.79	5.58	9.04	10.50	9.04	10.50
VANO 5	15.30	16.00	817.01	374.65	1427.00	747.19	23.46	5.75	5900.00	0.0041	1.52	3.63	21.46	5.26	5900.00	0.0041	5.79	5.52	9.04	10.50	9.04	10.50
VANO 5	16.58	17.00	714.66	349.04	1371.95	656.33	20.52	5.03	5900.00	0.0041	1.42	3.22	18.85	4.62	5900.00	0.0041	5.57	5.09	9.04	10.50	9.04	10.50
VANO 5	17.85	18.00	613.48	323.69	1319.03	565.40	17.62	4.32	5900.00	0.0041	1.31	2.81	16.24	3.98	5900.00	0.0041	5.35	4.67	9.04	10.50	9.04	10.50
VANO 5	19.13	19.00	513.51	298.58	1268.22	474.41	14.75	3.61	5900.00	0.0041	1.21	2.41	13.62	3.34	5900.00	0.0041	5.15	4.24	9.04	10.50	9.04	10.50
VANO 5	20.40	20.00	461.27	142.55	1219.53	383.37	13.25	3.25	5900.00	0.0041	0.58	1.91	11.01	2.70	5900.00	0.0041	4.95	3.82	9.04	10.50	9.04	10.50
VANO 5	20.40	21.00	461.27	142.55	1219.53	383.37	13.25	3.25	5900.00	0.0041	0.58	1.91	11.01	2.70	5900.00	0.0041	4.95	3.82	9.04	10.50	9.04	10.50
VANO 5	21.68	22.00	533.87	138.73	1179.82	292.29	15.33	3.76	5900.00	0.0041	0.56	2.16	8.39	2.06	5900.00	0.0041	4.79	3.42	9.04	10.50	9.04	10.50
VANO 5	22.95	23.00	607.89	134.90	1142.43	201.18	17.46	4.28	5900.00	0.0041	0.55	2.41	5.78	1.42	5900.00	0.0041	4.64	3.03	9.04	10.50	9.04	10.50
VANO 5	24.23	24.00	683.32	131.07	1107.38	110.05	19.62	4.81	5900.00	0.0041	0.53	2.67	3.16	0.77	5900.00	0.0041	4.50	2.63	9.04	10.50	9.04	10.50
VANO 5	25.50	25.00	415.92	203.67	1074.68	18.91	11.94	2.93	5900.00	0.0041	0.83	1.88	0.54	0.13	5900.00	0.0041	4.36	2.25	9.04	10.50	9.04	10.50
VANO 5	25.50	26.00	415.92	153.08	1024.10	18.91	11.94	2.93	5900.00	0.0041	0.62	1.77	0.54	0.13	5900.00	0.0041	4.16	2.15	9.04	10.50	9.04	10.50
VANO 5	26.78	27.00	720.02	129.46	988.33	74.59	20.68	5.07	5900.00	0.0041	0.53	2.80	2.14	0.52	5900.00	0.0041	4.01	2.27	9.04	10.50	9.04	10.50
VANO 5	28.05	28.00	644.84	106.14	975.22	165.01	18.52	4.54	5900.00	0.0041	0.43	2.48	4.74	1.16	5900.00	0.0041	3.96	2.56	9.04	10.50	9.04	10.50
VANO 5	29.33	29.00	571.06	83.13	1008.40	256.11	16.40	4.02	5900.00	0.0041	0.34	2.18	7.35	1.80	5900.00	0.0041	4.09	2.95	9.04	10.50	9.04	10.50
VANO 5	30.60	30.00	498.70	60.41	1043.30	347.17	14.32	3.51	5900.00	0.0041	0.25	1.88	9.97	2.44	5900.00	0.0041	4.24	3.34	9.04	10.50	9.04	10.50
VANO 5	30.60	31.00	498.70	60.41	1043.30	347.17	14.32	3.51	5900.00	0.0041	0.25	1.88	9.97	2.44	5900.00	0.0041	4.24	3.34	9.04	10.50	9.04	10.50
VANO 5	31.88	32.00	474.33	146.82	1088.38	438.19	13.62	3.34	5900.00	0.0041	0.60	1.97	12.58	3.08	5900.00	0.0041	4.42	3.75	9.04	10.50	9.04	10.50
VANO 5	33.15	33.00	574.53	168.05	1134.99	529.15	16.50	4.04	5900.00	0.0041	0.68	2.36	15.19	3.72	5900.00	0.0041	4.61	4.16	9.04	10.50	9.04	10.50
VANO 5	34.43	34.00	675.91	189.60	1183.75	620.04	19.41	4.76	5900.00	0.0041	0.77	2.76	17.80	4.36	5900.00	0.0041	4.81	4.58	9.04	10.50	9.04	10.50
VANO 5	35.70	35.00	778.46	212.27	1235.22	710.87	22.35	5.48	5900.00	0.0041	0.86	3.17	20.41	5.00	5900.00	0.0041	5.01	5.01	9.04	10.50	9.04	10.50
VANO 5	35.70	36.00	778.46	212.27	1235.22	710.87	22.35	5.48	5900.00	0.0041	0.86	3.17	20.41	5.00	5900.00	0.0041	5.01	5.01	9.04	10.50	9.04	10.50
VANO 5	36.98	37.00	882.13	235.19	1288.31	801.60	25.33	6.21	5900.00	0.0041	0.95	3.58	23.02	5.64	5900.00	0.0041	5.23	5.44	9.04	10.50	9.04	10.50
VANO 5	38.25	38.00	986.88	258.36	1344.32	892.25	28.34	6.94	5900.00	0.0041	1.05	4.00	25.62	6.28	5900.00	0.0041	5.46	5.87	9.04	10.50	9.04	10.50
VANO 5	39.53	39.00	1092.69	282.02	1402.38	982.80	31.38	7.69	5900.00	0.0041	1.14	4.42	28.22	6.91	5900.00	0.0041	5.69	6.30	9.04	10.50	9.04	10.50
VANO 5	40.80	40.00	1199.49	306.98	1463.33	1073.24	34.44	8.44	5900.00	0.0041	1.25	4.84	30.82	7.55	5900.00	0.0041	5.94	6.75	9.04	10.50	9.04	10.50
VANO 5	40.80	41.00	1199.49	306.98	1463.33	1073.24	34.44	8.44	5900.00	0.0041	1.25	4.84	30.82	7.55	5900.00	0.0041	5.94	6.75	9.04	10.50	9.04	10.50
VANO 5	42.08	42.00	1307.25	332.19	1527.18	1163.57	37.54	9.20	5900.00	0.0041	1.35	5.27	33.41	8.19	5900.00	0.0041	6.20	7.19	9.04	10.50	9.04	10.50
VANO 5	43.35	43.00	1415.92	359.16	1594.18	1253.78	40.66	9.96	5900.00	0.0041	1.46	5.71	36.00	8.82	5900.00	0.0041	6.47	7.65	9.04	10.50	9.04	10.50
VANO 5	44.63	44.00	1525.44	386.37	1663.29	1343.87	43.80	10.73	5900.00	0.0041	1.57	6.15	38.59	9.45	5900.00	0.0041	6.75	8.10	9.04	10.50	9.04	10.50
VANO 5	45.90	45.00	1635.77	413.84	1734.12	1433.83	46.97	11.51	5900.00	0.0041	1.68	6.59	41.17	10.09	5900.00	0.0041	7.04	8.56	9.04	10.50	9.04	10.50
VANO 5	45.90	46.00	1635.77	413.84	1734.12	1433.83	46.97	11.51	5900.00	0.0041	1.68	6.59	41.17	10.09	5900.00	0.0041	7.04	8.56	9.04	10.50	9.04	10.50
VANO 5	47.18	47.00	1746.83	441.55	1807.17	1523.65	50.16	12.29	5900.00	0.0041	1.79	7.04	43.75	10.72	5900.00	0.0041	7.34	9.03	9.04	10.50	9.04	10.50
VANO 5	48.45	48.00	1858.59	469.51	1883.14	1613.33	53.37	13.08	5900.00	0.0041	1.91	7.49	46.33	11.35	5900.00	0.0041	7.64	9.50	9.04	10.50	9.50	10.50
VANO 5	49.73	49.00	1970.96	497.72	1960.13	1702.88	56.60	13.87	5900.00	0.0041	2.02	7.94	48.90	11.98	5900.00	0.0041	7.96	9.97	9.04	10.50	9.97	10.50
VANO 5	51.00	50.00	2083.01	526.18	2040.07	1792.21	70.83	17.35	5900.00	0.0041	2.14	8.14	51.47	12.61	5900.00	0.0041	8.26	10.49	9.04	10.50	10.49	10.50
VANO 6	0.00	1.00	2406.83	757.03	2337.01	1742.10	69.11	16.93	5900.00	0.0041	3.07	10.00	50.03	12.26	5900.00	0.0041	9.49	10.87	9.04	10.50	10.87	10.87
VANO 6	1.20	2.00	1891.68	730.03	2261.80	1657.69	54.32	13.31	5900.00	0.0041	2.96	8.14	47.60	11.66	5900.00	0.0041	9.18	10.42	9.04	10.50	10.42	10.50
VANO 6	2.40	3.00	1785.62	703.26	2186.14	1573.15	51.27	12.56	5900.00	0.0041	2.85	7.71	45.17	11.07	5900.00	0.0041	8.88	9.97	9.04	10.50	9.97	10.50
VANO 6	3.60	4.00	1680.19	676.72	2114.14	1488.48	48.25	11.82	5900.00	0.0041	2.75	7.28	42.74	10.47	5900.00	0.0041	8.58	9.53	9.04	10.50	9.53	10.50
VANO 6	4.80	5.00	1575.43	650.41	2044.70	1403.69	45.24	11.08	5900.00	0.0041	2.64	6.86	40.31	9.88	5900.00	0.0041	8.30	9.09	9.04	10.50	9.09	10.50
VANO 6	4.80	6.00	1575.43	650.41	2044.70	1403.69	45.24	11.08	5900.00	0.0041	2.64	6.86	40.31	9.88	5900.00	0.0041	8.30	9.09	9.04	10.50	9.09	10.50
VANO 6	6.00	7.00	1471.41	624.33	1976.50	1318.78	42.25	10.35	5900.00	0.0041	2.53	6.44	37.87	9.28	5900.00	0.0041	8.02	8.65	9.04	10.50	9.04	10.50
VANO 6	7.20	8.00	1368.18	598.47	1910.07	1233.75	39.29	9.63	5900.00	0.0041	2.43	6.03	35.43	8.68	5900.00	0.0041	7.75	8.22	9.04	10.50	9.04	10.50
VANO 6	8.40	9.00	1265.78	572.85	1845.99	1148.61	36.35	8.91	5900.00	0.0041	2.33	5.62	32.98	8.08	5900.00	0.0041	7.49	7.79	9.04	10.50	9.04	10.50
VANO 6	9.60	10.00	1164.26	547.45	1783.66	1063.36	33.43	8.19	5900.00	0.0041	2.22	5.21	30.53	7.48	5900.00	0.0041	7.24	7.36	9.04	10.50	9.04	10.50
VANO 6	9.60	11.00	1164.26	547.45	1783.66	1063.36	33.43	8.19	5900.00	0.0041	2.22	5.21	30.53	7.48	5900.00	0.0041	7.24	7.36	9.04	10.50	9.04	10.50
VANO 6	10.80	12.00	1063.67	522.29	1723.19	978.02	30.54	7.48	5900.00	0.0041	2.12	4.80	28.08	6.88	5900.00	0.0041	7.00	6.94	9.04	10.50	9.04	10.50
VANO 6	12.00	13.00	964.04	497.35	1664.17	892.58	27.68	6.78	5900.00	0.0041	2.02	4.40	25.63	6.28	5900.00	0.0041	6.76	6.52	9.04	10.50	9.04	10.50
VANO 6	13.20	14.00	865.42	472.64	1608.41	807.06	24.85	6.09	5900.00	0.0041	1.92	4.00	23.18	5.68	5900.00	0.0041	6.53	6.10	9.04	10.50	9.04	10.50
VANO 6	14.40	15.00	767.84	448.16	1553.10	721.46	22.05	5.40	5900.00	0.0041	1.82	3.61	20.72	5.08	5900.00	0.0041	6.31	5.69	9.04	10.50	9.04	10.50
VANO 6	14.40	16.00	750.89	448.16	1553.10	704.52	21.56	5.28	5900.00	0.0041	1.82	3.55	20.23	4.96	5900.00	0.0041	6.31	5.63	9.04	10.50	9.04	10.50
VANO 6	15.60	17.00	654.39	423.91	1501.35	618.85	18.79	4.60	5900.00	0.0041	1.72	3.16	17.77	4.35	5900.00	0.0041	6.09	5.22	9.04	10.50	9.04	10.50
VANO 6	16.80	18.00	558.99	399.88	1450.76	533.12	16.05	3.93	5900.00	0.0041	1.62	2.78	15.31	3.75	5900.00	0.0041	5.89	4.82	9.04	10.50	9.04	10.50
VANO 6	18.00	19.00	464.74	376.09	1402.11	447.34	13.35	3.27	5900.00	0.0041	1.53	2.40	12.85	3.15	5900.00	0.0041	5.69	4.42	9.04	10.50	9.04	10.50
VANO 6	19.20	20.00	477.66	226.51	1355.13	361.51	13.72	3.36	5900.00	0.0041	0.92	2.14	10.38	2.54	5900.00	0.0041	5.50	4.02	9.04	10.50	9.04	10.50
VANO 6	19.20	21.00	477.66	226.51	1355.13	361.51	13.72	3.36	5900.00	0.0041	0.92	2.14	10.38	2.54	5900.00	0.0041	5.50	4.02	9.04	10.50	9.04	10.50
VANO 6	20.40	22.00	558.53	207.33	1311.11	275.65	16.04	3.93	5900.00	0.0041	0.84	2.39	7.92	1.94	5900.00	0.0041	5.32	3.63	9.04	10.50	9.04	10.50
VANO 6	21.60	23.00	640.71	197.25	1268.66	189.76	18.40	4.51	5900.00	0.0041	0.80	2.65	5.45	1.34	5900.00	0.0041	5.15	3.24	9.04	10.50	9.04	10.50
VANO 6	22.80	24.00	724.21	187.17	1228.77	103.88	20.80	5.10	5900.00	0.0041	0.76	2.93	2.98	0.73	5900.00	0.0041	4.99	2.86	9.04	10.50	9.04	10.50
VANO 6	24.00	25.00	421.04	260.02	1190.84	17.95	12.09	2.96	5900.00	0.0041	1.06	2.01	0.52	0.13	5900.00	0.0041	4.83	2.48	9.04	10.50	9.04	10.50
VANO 6	24.00	26.00	421.04	260.02	1190.84	17.95	12.09	2.96	5900.00	0.0041	1.06	2.01	0.52	0.13	5900.00	0.0041	4.83	2.48	9.04	10.50	9.04	10.50
VANO 6	25.20	27.00	744.38	237.62	1155.08	85.59	21.38	5.24	5900.00	0.0041	0.96	3.10	2.46	0.60	5900.00	0.0041	4.69	2.65	9.04	10.50	9.04	10.50
VANO 6	26.40	28.00	661.03	215.51	1121.48	172.39	18.98	4.65	5900.00	0.0041	0.87	2.76	4.95	1.21	5900.00	0.0041	4.55	2.88	9.04	10.50	9.04	10.50
VANO 6	27.60	29.00	579.01	193.68	1103.68	259.16	16.63	4.07	5900.00	0.0041	0.79	2.43	7.44	1.82	5900.00	0.0041	4.48	3.15	9.04	10.50	9.04	10.50
VANO 6	28.80	30.00	498.29	172.12	1088.18	345.91	14.31	3.51	5900.00	0.0041	0.70	2.10	9.93	2.43	5900.00	0.0041	4.42	3.43	9.04	10.50	9.04	10.50
VANO 6	28.80	31.00	498.29	172.12	1088.18	345.91	14.31	3.51	5900.00	0.0041	0.70	2.10	9.93	2.43	5900.00	0.0041	4.42	3.43	9.04	10.50	9.04	10.50
VANO 6	30.00	32.00	444.49	126.71	1074.84	432.61	12.76	3.13	5900.00	0.0041	0.51	1.82	12.42	3.04	5900.00	0.0041	4.36	3.70	9.04	10.50	9.04	10.50
VANO 6	31.20	33.00	538.90	116.63	1101.40	514.12	15.47	3.79	5900.00	0.0041	0.47	2.13	14.76	3.62	5900.00	0.0041	4.47	4.04	9.04	10.50	9.04	10.50
VANO 6	32.40	34.00	634.44	128.92	1140.13	599.82	18.22	4.46	5900.00	0.0041	0.52	2.49	17.22	4.22	5900.00	0.0041	4.63	4.42	9.04	10.50	9.04	10.50
VANO 6	33.60	35.00	731.08	142.87	1180.82	685.45	20.99	5.14	5900.00	0.0041	0.58	2.85	19.68	4.82	5900.00	0.0041	4.79	4.81	9.04	10.50	9.04	10.50
VANO 6	33.60	36.00	731.08	142.87	1180.82	685.45	20.99	5.14	5900.00	0.0041	0.58	2.85	19.68	4.82	5900.00	0.0041	4.79	4.81	9.04	10.50	9.04	10.50
VANO 6	34.80	37.00	828.77	157.04	1223.48	771.01	23.80	5.83	5900.00	0.0041	0.64	3.23	22.14	5.42	5900.00	0.0041	4.97	5.20	9.04	10.50	9.04	10.50
VANO 6	36.00	38.00	927.50	171.45	1268.06	856.49	26.63	6.53	5900.00	0.0041	0.70	3.61	24.59	6.03	5900.00	0.0041	5.15	5.59	9.04	10.50	9.04	10.50
VANO 6	37.20	39.00	1027.21	191.90	1320.43	941.88	29.50	7.23	5900.00	0.0041	0.78	4.00	27.05	6.63	5900.00	0.0041	5.36	5.99	9.04	10.50	9.04	10.50
VANO 6	38.40	40.00	1127.88	213.19	1375.38	1027.17	32.39	7.93	5900.00	0.0041	0.87	4.40	29.50	7.23	5900.00	0.0041	5.58	6.40	9.04	10.50	9.04	10.50
VANO 6	38.40	41.00	1127.88	213.19	1375.38	1027.17	32.39	7.93	5900.00	0.0041	0.87	4.40	29.50	7.23	5900.00	0.0041	5.58	6.40	9.04	10.50	9.04	10.50
VANO 6	39.60	42.00	1229.45	234.71	1432.24	1112.36	35.30	8.65	5900.00	0.0041	0.95	4.80	31.94	7.83	5900.00	0.0041	5.81	6.82	9.04	10.50	9.04	10.50
VANO 6	40.80	43.00	1331.89	256.45	1491.03	1197.44	38.25	9.37	5900.00	0.0041	1.04	5.21	34.38	8.42	5900.00	0.0041	6.05	7.24	9.04	10.50	9.04	10.50
VANO 6	42.00	44.00	1435.15	278.43	1551.87	1282.41	41.21	10.10	5900.00	0.0041	1.13	5.61	36.82	9.02	5900.00	0.0041	6.30	7.66	9.04	10.50	9.04	10.50
VANO 6	43.20	45.00	1539.17	300.63	1614.61	1367.26	44.20	10.83	5900.00	0.0041	1.22	6.02	39.26	9.62	5900.00	0.0041	6.55	8.09	9.04	10.50	9.04	10.50
VANO 6	43.20	46.00	1539.17	300.63	1614.61	1367.26	44.20	10.83	5900.00	0.0041	1.22	6.02	39.26	9.62	5900.00	0.0041	6.55	8.09	9.04	10.50	9.04	10.50
VANO 6	44.40	47.00	1643.90	323.07	1679.31	1451.99	47.21	11.57	5900.00	0.0041	1.31	6.44	41.69	10.22	5900.00	0.0041	6.82	8.52	9.04	10.50	9.04	10.50
VANO 6	45.60	48.00	1749.29	348.56	1746.51	1536.59	50.23	12.31	5900.00	0.0041	1.41	6.86	44.12	10.81	5900.00	0.0041	7.09	8.95	9.04	10.50	9.04	10.50
VANO 6	46.80	49.00	1855.28	370.34	1815.72	1621.06	53.28	13.05	5900.00	0.0041	1.50	7.28	46.55	11.40	5900.00	0.0041	7.37	9.39	9.04	10.50	9.39	10.50

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC COV	SEC S PILA
I	20 008	24.9687
ys	1.495	1.754
yi	2 505	2.246

PRETENSA Exterior	
Nº TENDON	6
Nº CORDON	25
ROTURA TE	28.5
% TESADO	0.8
% PERDIDA	0.16
COEF. SEG	1

Lanzamient	Lanz. Adic
14	Variables
19	19
28.5	28.5
0.75	75%
0.2	20%
1	1.0

ARMADO DE LOSA SUPERIOR ZONA CENTRAL

CARACT. RASANTE

M est (S4)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
colg tetha =	1
K rasant =	0.029
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816	Ae =	20.67
fck (t/m2) =	4082	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
colg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	FLEXIÓN TRANS As int	As ext	As int
VANO 7	0.00	1.00	2316.53	710.45	2345.43	1717.32	66.52	16.30	5900.00	0.0041	2.88	9.59	49.31	12.08	5900.00	0.0041	9.52	10.80	9.04	10.50	10.80	10.80
VANO 7	1.20	2.00	1801.53	683.29	2269.69	1632.98	51.73	12.67	5900.00	0.0041	2.77	7.72	46.89	11.49	5900.00	0.0041	9.21	10.35	9.04	10.50	10.35	10.50
VANO 7	2.40	3.00	1698.44	656.36	2195.90	1548.51	48.77	11.95	5900.00	0.0041	2.66	7.31	44.47	10.89	5900.00	0.0041	8.91	9.90	9.04	10.50	9.90	10.50
VANO 7	3.60	4.00	1605.64	629.66	2124.05	1463.91	46.11	11.30	5900.00	0.0041	2.56	6.93	42.04	10.30	5900.00	0.0041	8.62	9.46	9.04	10.50	9.46	10.50
VANO 7	4.80	5.00	1513.50	603.18	2054.14	1379.18	43.46	10.65	5900.00	0.0041	2.45	6.55	39.60	9.70	5900.00	0.0041	8.34	9.02	9.04	10.50	9.04	10.50
VANO 7	4.80	6.00	1513.50	603.18	2054.14	1379.18	43.46	10.65	5900.00	0.0041	2.45	6.55	39.60	9.70	5900.00	0.0041	8.34	9.02	9.04	10.50	9.04	10.50
VANO 7	6.00	7.00	1422.07	576.92	1983.18	1294.33	40.84	10.00	5900.00	0.0041	2.34	6.17	37.17	9.11	5900.00	0.0041	8.06	8.58	9.04	10.50	9.04	10.50
VANO 7	7.20	8.00	1331.41	550.89	1921.16	1209.36	38.23	9.37	5900.00	0.0041	2.24	5.80	34.73	8.51	5900.00	0.0041	7.79	8.15	9.04	10.50	9.04	10.50
VANO 7	8.40	9.00	1232.18	525.09	1853.09	1124.28	35.38	8.67	5900.00	0.0041	2.13	5.40	32.28	7.91	5900.00	0.0041	7.53	7.72	9.04	10.50	9.04	10.50
VANO 7	9.60	10.00	1130.68	499.51	1793.96	1039.09	32.47	7.95	5900.00	0.0041	2.03	4.99	29.84	7.31	5900.00	0.0041	7.28	7.30	9.04	10.50	9.04	10.50
VANO 7	9.60	11.00	1130.68	499.51	1793.96	1039.09	32.47	7.95	5900.00	0.0041	2.03	4.99	29.84	7.31	5900.00	0.0041	7.28	7.30	9.04	10.50	9.04	10.50
VANO 7	10.80	12.00	1030.10	474.16	1733.77	953.80	29.58	7.25	5900.00	0.0041	1.92	4.59	27.39	6.71	5900.00	0.0041	7.04	6.87	9.04	10.50	9.04	10.50
VANO 7	12.00	13.00	930.46	449.04	1675.52	868.42	26.72	6.55	5900.00	0.0041	1.82	4.18	24.94	6.11	5900.00	0.0041	6.80	6.46	9.04	10.50	9.04	10.50
VANO 7	13.20	14.00	831.83	424.14	1619.22	782.95	23.89	5.85	5900.00	0.0041	1.72	3.79	22.48	5.51	5900.00	0.0041	6.57	6.04	9.04	10.50	9.04	10.50
VANO 7	14.40	15.00	734.22	399.46	1566.86	697.40	21.08	5.17	5900.00	0.0041	1.62	3.39	20.03	4.91	5900.00	0.0041	6.35	5.63	9.04	10.50	9.04	10.50
VANO 7	14.40	16.00	717.28	399.46	1566.86	680.45	20.60	5.05	5900.00	0.0041	1.62	3.33	19.54	4.79	5900.00	0.0041	6.35	5.57	9.04	10.50	9.04	10.50
VANO 7	15.60	17.00	620.74	375.01	1515.44	594.83	17.82	4.37	5900.00	0.0041	1.52	2.94	17.08	4.18	5900.00	0.0041	6.14	5.16	9.04	10.50	9.04	10.50
VANO 7	16.80	18.00	525.30	350.79	1466.97	509.14	15.08	3.70	5900.00	0.0041	1.42	2.56	14.62	3.58	5900.00	0.0041	5.93	4.76	9.04	10.50	9.04	10.50
VANO 7	18.00	19.00	430.99	326.79	1417.44	423.39	12.38	3.03	5900.00	0.0041	1.33	2.18	12.16	2.98	5900.00	0.0041	5.74	4.36	9.04	10.50	9.04	10.50
VANO 7	19.20	20.00	489.77	177.07	1368.96	337.60	14.06	3.45	5900.00	0.0041	0.72	2.08	9.69	2.38	5900.00	0.0041	5.55	3.96	9.04	10.50	9.04	10.50
VANO 7	19.20	21.00	489.77	177.07	1368.96	337.60	14.06	3.45	5900.00	0.0041	0.72	2.08	9.69	2.38	5900.00	0.0041	5.55	3.96	9.04	10.50	9.04	10.50
VANO 7	20.40	22.00	567.43	166.70	1321.63	251.77	16.29	3.99	5900.00	0.0041	0.68	2.33	7.23	1.77	5900.00	0.0041	5.37	3.57	9.04	10.50	9.04	10.50
VANO 7	21.60	23.00	646.40	156.32	1280.45	165.91	18.56	4.55	5900.00	0.0041	0.63	2.59	4.76	1.17	5900.00	0.0041	5.20	3.18	9.04	10.50	9.04	10.50
VANO 7	22.80	24.00	726.69	145.95	1240.42	80.03	20.87	5.11	5900.00	0.0041	0.59	2.85	2.30	0.56	5900.00	0.0041	5.04	2.80	9.04	10.50	9.04	10.50
VANO 7	24.00	25.00	399.83	135.57	1202.55	10.26	11.48	2.81	5900.00	0.0041	0.55	1.68	0.29	0.07	5900.00	0.0041	4.88	2.48	9.04	10.50	9.04	10.50
VANO 7	24.00	26.00	399.83	135.57	1202.55	10.26	11.48	2.81	5900.00	0.0041	0.55	1.68	0.29	0.07	5900.00	0.0041	4.88	2.48	9.04	10.50	9.04	10.50
VANO 7	25.20	27.00	711.62	187.04	1166.82	97.04	20.43	5.01	5900.00	0.0041	0.76	2.88	2.79	0.68	5900.00	0.0041	4.74	2.71	9.04	10.50	9.04	10.50
VANO 7	26.40	28.00	631.31	164.70	1134.92	183.82	18.13	4.44	5900.00	0.0041	0.67	2.55	5.28	1.29	5900.00	0.0041	4.61	2.95	9.04	10.50	9.04	10.50
VANO 7	27.60	29.00	552.32	142.63	1122.16	270.58	15.86	3.89	5900.00	0.0041	0.58	2.23	7.77	1.90	5900.00	0.0041	4.55	3.23	9.04	10.50	9.04	10.50
VANO 7	28.80	30.00	474.65	120.83	1107.55	357.31	13.63	3.34	5900.00	0.0041	0.49	1.91	10.26	2.51	5900.00	0.0041	4.50	3.50	9.04	10.50	9.04	10.50
VANO 7	28.80	31.00	474.65	120.83	1107.55	357.31	13.63	3.34	5900.00	0.0041	0.49	1.91	10.26	2.51	5900.00	0.0041	4.50	3.50	9.04	10.50	9.04	10.50
VANO 7	30.00	32.00	441.60	111.38	1097.08	444.01	12.68	3.11	5900.00	0.0041	0.45	1.78	12.75	3.12	5900.00	0.0041	4.45	3.79	9.04	10.50	9.04	10.50
VANO 7	31.20	33.00	535.90	124.89	1117.11	525.19	15.39	3.77	5900.00	0.0041	0.51	2.14	15.08	3.69	5900.00	0.0041	4.53	4.11	9.04	10.50	9.04	10.50
VANO 7	32.40	34.00	631.32	143.44	1155.96	610.89	18.13	4.44	5900.00	0.0041	0.58	2.51	17.54	4.30	5900.00	0.0041	4.69	4.50	9.04	10.50	9.04	10.50
VANO 7	33.60	35.00	727.84	163.77	1196.76	696.51	20.90	5.12	5900.00	0.0041	0.66	2.89	20.00	4.90	5900.00	0.0041	4.86	4.88	9.04	10.50	9.04	10.50
VANO 7	33.60	36.00	727.84	163.77	1196.76	696.51	20.90	5.12	5900.00	0.0041	0.66	2.89	20.00	4.90	5900.00	0.0041	4.86	4.88	9.04	10.50	9.04	10.50
VANO 7	34.80	37.00	825.43	184.39	1239.50	782.07	23.70	5.81	5900.00	0.0041	0.75	3.28	22.46	5.50	5900.00	0.0041	5.03	5.27	9.04	10.50	9.04	10.50
VANO 7	36.00	38.00	924.05	205.23	1284.18	867.55	26.53	6.50	5900.00	0.0041	0.83	3.67	24.91	6.10	5900.00	0.0041	5.21	5.66	9.04	10.50	9.04	10.50
VANO 7	37.20	39.00	1023.67	226.30	1330.81	952.93	29.40	7.20	5900.00	0.0041	0.92	4.06	27.36	6.70	5900.00	0.0041	5.40	6.05	9.04	10.50	9.04	10.50
VANO 7	38.40	40.00	1124.25	247.59	1381.16	1038.23	32.28	7.91	5900.00	0.0041	1.01	4.46	29.81	7.30	5900.00	0.0041	5.61	6.46	9.04	10.50	9.04	10.50
VANO 7	38.40	41.00	1124.25	247.59	1381.16	1038.23	32.28	7.91	5900.00	0.0041	1.01	4.46	29.81	7.30	5900.00	0.0041	5.61	6.46	9.04	10.50	9.04	10.50
VANO 7	39.60	42.00	1225.73	269.50	1438.03	1123.42	35.20	8.62	5900.00	0.0041	1.09	4.86	32.26	7.90	5900.00	0.0041	5.84	6.87	9.04	10.50	9.04	10.50
VANO 7	40.80	43.00	1328.09	292.13	1496.84	1208.51	38.14	9.34	5900.00	0.0041	1.19	5.26	34.70	8.50	5900.00	0.0041	6.08	7.29	9.04	10.50	9.04	10.50
VANO 7	42.00	44.00	1431.26	314.99	1557.59	1293.48	41.10	10.07	5900.00	0.0041	1.28	5.67	37.14	9.10	5900.00	0.0041	6.32	7.71	9.04	10.50	9.04	10.50
VANO 7	43.20	45.00	1535.21	338.08	1620.29	1378.33	44.08	10.80	5900.00	0.0041	1.37	6.09	39.58	9.70	5900.00	0.0041	6.58	8.14	9.04	10.50	9.04	10.50
VANO 7	43.20	46.00	1535.21	338.08	1620.29	1378.33	44.08	10.80	5900.00	0.0041	1.37	6.09	39.58	9.70	5900.00	0.0041	6.58	8.14	9.04	10.50	9.04	10.50
VANO 7	44.40	47.00	1639.87	361.39	1684.33	1463.07	47.09	11.54	5900.00	0.0041	1.47	6.50	42.01	10.29	5900.00	0.0041	6.84	8.57	9.04	10.50	9.04	10.50
VANO 7	45.60	48.00	1745.20	384.93	1752.36	1547.68	50.11	12.28	5900.00	0.0041	1.56	6.92	44.44	10.89	5900.00	0.0041	7.11	9.00	9.04	10.50	9.04	10.50
VANO 7	46.80	49.00	1851.13	408.69	1821.18	1632.16	53.16	13.02	5900.00	0.0041	1.66	7.34	46.87	11.48	5900.00	0.0041	7.39	9.44	9.04	10.50	9.44	10.50
VANO 8	0.00	1.00	2316.53	710.45	2236.37	1719.11	66.52	16.30	5900.00	0.0041	2.88	9.59	49.36	12.09	5900.00	0.0041	9.08	10.59	9.04	10.50	10.59	10.59
VANO 8	1.20	2.00	1801.53	683.29	2161.36	1634.77	51.73	12.67	5900.00	0.0041	2.77	7.72	46.94	11.50	5900.00	0.0041	8.77	10.14	9.04	10.50	10.14	10.50
VANO 8	2.40	3.00	1698.44	656.36	2088.18	1550.30	48.77	11.95	5900.00	0.0041	2.66	7.31	44.52	10.91	5900.00	0.0041	8.48	9.69	9.04	10.50	9.69	10.50
VANO 8	3.60	4.00	1605.64	629.66	2017.02	1465.71	46.11	11.30	5900.00	0.0041	2.56	6.93	42.09	10.31	5900.00	0.0041	8.19	9.25	9.04	10.50	9.25	10.50
VANO 8	4.80	5.00	1513.50	603.18	1947.90	1380.98	43.46	10.65	5900.00	0.0041	2.45	6.55	39.66	9.72	5900.00	0.0041	7.91	8.81	9.04	10.50	9.04	10.50
VANO 8	4.80	6.00	1513.50	603.18	1947.90	1380.98	43.46	10.65	5900.00	0.0041	2.45	6.55	39.66	9.72	5900.00	0.0041	7.91	8.81	9.04	10.50	9.04	10.50
VANO 8	6.00	7.00	1422.07	576.92	1880.11	1296.14	40.84	10.00	5900.00	0.0041	2.34	6.17	37.22	9.12	5900.00	0.0041	7.63	8.38	9.04	10.50	9.04	10.50
VANO 8	7.20	8.00	1331.41	550.89	1814.34	1211.17	38.23	9.37	5900.00	0.0041	2.24	5.80	34.78	8.52	5900.00	0.0041	7.37	7.94	9.04	10.50	9.04	10.50
VANO 8	8.40	9.00	1232.18	525.09	1750.00	1126.10	35.38	8.67	5900.00	0.0041	2.13	5.40	32.34	7.92	5900.00	0.0041	7.11	7.51	9.04	10.50	9.04	10.50
VANO 8	9.60	10.00	1130.68	499.51	1689.00	1040.92	32.47	7.95	5900.00	0.0041	2.03	4.99	29.89	7.32	5900.00	0.0041	6.86	7.09	9.04	10.50	9.04	10.50
VANO 8	9.60	11.00	1130.68	499.51	1689.00	1040.92	32.47	7.95	5900.00	0.0041	2.03	4.99	29.89	7.32	5900.00	0.0041	6.86	7.09	9.04	10.50	9.04	10.50
VANO 8	10.80	12.00	1030.10	474.16	1629.42	955.63	29.58	7.25	5900.00	0.0041	1.92	4.59	27.44	6.72	5900.00	0.0041	6.61	6.67	9.04	10.50	9.04	10.50
VANO 8	12.00	13.00	930.46	449.04	1571.27	870.26	26.72	6.55	5900.00	0.0041	1.82	4.18	24.99	6.12	5900.00	0.0041	6.38	6.25	9.04	10.50	9.04	10.50
VANO 8	13.20	14.00	831.83	424.14	1515.65	784.79	23.89	5.85	5900.00	0.0041	1.72	3.79	22.54	5.52	5900.00	0.0041	6.15	5.84	9.04	10.50	9.04	10.50
VANO 8	14.40	15.00	734.22	399.46	1461.66	699.25	21.08	5.17	5900.00	0.0041	1.62	3.39	20.08	4.92	5900.00	0.0041	5.93	5.43	9.04	10.50	9.04	10.50
VANO 8	14.40	16.00	717.28	399.46	1461.66	682.30	20.60	5.05	5900.00	0.0041	1.62	3.33	19.59	4.80	5900.00	0.0041	5.93	5.37	9.04	10.50	9.04	10.50
VANO 8	15.60	17.00	620.74	375.01	1409.00	596.69	17.82	4.37	5900.00	0.0041	1.52	2.94	17.13	4.20	5900.00	0.0041	5.72	4.96	9.04	10.50	9.04	10.50
VANO 8	16.80	18.00	525.30	350.79	1359.47	511.01	15.08	3.70	5900.00	0.0041	1.42	2.56	14.67	3.60	5900.00	0.0041	5.52	4.56	9.04	10.50	9.04	10.50
VANO 8	18.00	19.00	430.99	326.79	1311.27	425.27	12.38	3.03	5900.00	0.0041	1.33	2.18	12.21	2.99	5900.00	0.0041	5.32	4.16	9.04	10.50	9.04	10.50
VANO 8	19.20	20.00	489.77	177.07	1265.10	339.48	14.06	3.45	5900.00	0.0041	0.72	2.08	9.75	2.39	5900.00	0.0041	5.14	3.76	9.04	10.50	9.04	10.50
VANO 8	19.20	21.00	489.77	177.07	1265.10	339.48	14.06	3.45	5900.00	0.0041	0.72	2.08	9.75	2.39	5900.00	0.0041	5.14	3.76	9.04	10.50	9.04	10.50
VANO 8	20.40	22.00	567.43	166.70	1221.08	253.66	16.29	3.99	5900.00	0.0041	0.68	2.33	7.28	1.78	5900.00	0.0041	4.96	3.37	9.04	10.50	9.04	10.50
VANO 8	21.60	23.00	646.40	156.32	1179.15	167.81	18.56	4.55	5900.00	0.0041	0.63	2.59	4.82	1.18	5900.00	0.0041	4.79	2.98	9.04	10.50	9.04	10.50
VANO 8	22.80	24.00	726.69	145.95	1139.40	81.94	20.87	5.11	5900.00	0.0041	0.59	2.85	2.35	0.58	5900.00	0.0041	4.63	2.60	9.04	10.50	9.04	10.50
VANO 8	24.00	25.00	399.83	135.57	1103.91	5.42	11.48	2.81	5900.00	0.0041	0.55	1.68	0.16	0.04	5900.00	0.0041	4.48	2.26	9.04	10.50	9.04	10.50
VANO 8	24.00	26.00	399.83	135.57	1103.91	5.42	11.48	2.81	5900.00	0.0041	0.55	1.68	0.16	0.04	5900.00	0.0041	4.48	2.26	9.04	10.50	9.04	10.50
VANO 8	25.20	27.00	711.62	187.04	1073.32	91.80	20.43	5.01	5900.00	0.0041	0.76	2.88	2.64	0.65	5900.00	0.0041	4.36	2.50	9.04	10.50	9.04	10.50
VANO 8	26.40	28.00	631.31	164.70	1056.73	178.57	18.13	4.44	5900.00	0.0041	0.67	2.55	5.13	1.26	5900.00	0.0041	4.29	2.77	9.04	10.50	9.04	10.50
VANO 8	27.60	29.00	552.32	142.63	1057.93	262.63	15.86	3.89	5900.00	0.0041	0.58	2.23	7.54	1.85	5900.00	0.0041	4.29	3.07	9.04	10.50	9.04	10.50
VANO 8	28.80	30.00	474.65	120.83	1090.93	348.46	13.63	3.34	5900.00	0.0041	0.49	1.91	10.01	2.45	5900.00	0.0041	4.43	3.44	9.04	10.50	9.04	10.50
VANO 8	28.80	31.00	474.65	120.83	1090.93	348.46	13.63	3.34	5900.00	0.0041	0.49	1.91	10.01	2.45	5900.00	0.0041	4.43	3.44	9.04	10.50	9.04	10.50
VANO 8	30.00	32.00	441.60	111.38	1126.11	434.24	12.68	3.11	5900.00	0.0041	0.45	1.78	12.47	3.06	5900.00	0.0041	4.57	3.81	9.04	10.50	9.04	10.50
VANO 8	31.20	33.00	535.90	124.89	1165.23	519.98	15.39	3.77	5900.00	0.0041	0.51	2.14	14.93	3.66	5900.00	0.0041	4.73	4.19	9.04	10.50	9.04	10.50
VANO 8	32.40	34.00	631.32	143.44	1210.67	605.66	18.13	4.44	5900.00	0.0041	0.58	2.51	17.39	4.26	5900.00	0.0041	4.91	4.59	9.04	10.50	9.04	10.50
VANO 8	33.60	35.00	727.84	163.77	1258.04	691.28	20.90	5.12	5900.00	0.0041	0.66	2.89	19.85	4.86	5900.00	0.0041	5.11	4.99	9.04	10.50	9.04	10.50
VANO 8	33.60	36.00	727.84	163.77	1258.04	691.28	20.90	5.12	5900.00	0.0041	0.66	2.89	19.85	4.86	5900.00	0.0041	5.11	4.99	9.04	10.50	9.04	10.50
VANO 8	34.80	37.00	825.43	184.39	1307.89	776.83	23.70	5.81	5900.00	0.0041	0.75	3.28	22.31	5.47	5900.00	0.0041	5.31	5.39	9.04	10.50	9.04	10.50
VANO 8	36.00	38.00	924.05	205.23	1359.7	862.30	26.53	6.50	5900.00	0.0041	0.83	3.67	24.76	6.07	5900.00	0.0041	5.52	5.79	9.04	10.50	9.04	10.50
VANO 8	37.20	39.00	1023.67	226.30	1413.48	947.68	29.40	7.20	5900.00	0.0041	0.92	4.06	27.21	6.67	5900.00	0.0041	5.74	6.20	9.04	10.50	9.04	10.50
VANO 8	38.40	40.00	1124.25	247.59	1469.25	1032.97	32.28	7.91	5900.00	0.0041	1.01	4.46	29.66	7.27	5900.00	0.0041	5.96	6.62	9.04	10.50	9.04	10.50
VANO 8	38.40	41.00	1124.25	247.59	1469.25	1032.97	32.28	7.91	5900.00	0.0041	1.01	4.46	29.66	7.27	5900.00	0.0041	5.96	6.62	9.04	10.50	9.04	10.50
VANO 8	39.60	42.00	1225.73	269.50	1526.91	1118.15	35.20	8.62	5900.00	0.0041	1.09	4.86	32.11	7.87	5900.00	0.0041	6.20	7.03	9.04	10.50	9.04	10.50
VANO 8	40.80	43.00	1328.09	292.13	1586.86	1203.23	38.14	9.34	5900.00	0.0041	1.19	5.26	34.55	8.47	5900.00	0.0041	6.44	7.45	9.04	10.50	9.04	10.50
VANO 8	42.00	44.00	1431.26	314.99	1651.44	1288.20	41.10	10.07	5900.00	0.0041	1.28	5.67	36.99	9.06	5900.00	0.0041	6.70	7.88	9.04	10.50	9.04	10.50
VANO 8	43.20	45.00	1535.21	338.08	1717.95	1373.05	44.08	10.80	5900.00	0.0041	1.37	6.09	39.43	9.66	5900.00	0.0041	6.97	8.32	9.04	10.50	9.04	10.50
VANO 8	43.20	46.00	1535.21	338.08	1717.95	1373.05	44.08	10.80	5900.00	0.0041	1.37	6.09	39.43	9.66	5900.00	0.0041	6.97	8.32	9.04	10.50	9.04	10.50
VANO 8	44.40	47.00	1639.87	361.39	1786.38	1457.77	47.09	11.54	5900.00	0.0041	1.47	6.50	41.86	10.26	5900.00	0.0041	7.25	8.75	9.04	10.50	9.04	10.50
VANO 8	45.60	48.00	1745.20	384.93	1856.75	1542.38	50.11	12.28	5900.00	0.0041	1.56	6.92	44.29	10.85	5900.00	0.0041	7.54	9.19	9.04	10.50	9.19	10.50
VANO 8	46.80	49.00	1851.13	408.69	1929.04	1626.85	53.16	13.02	5900.00	0.0041	1.66	7.34	46.72	11.45	5900.00	0.0041	7.83	9.64	9.04	10.50	9.64	10.50

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR ZONA CENTRAL

CARACT. RASANTE		CARACTERISTICAS TORSOR			
M est (S4)=	0.57	fyd armad =	40816	Ae =	20.67
Inercia XX =	20.0	fck (t/m2) =	4082	he =	0.25
fyd cercos =	40816	fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1	cotg tetha =	1.46	Ap=	0.0342
K rasant =	0.029	Beta comp=	1.44	K tors Tu3 =	1.526
Canto sec=	0.33	K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 9	0.00	1.00	2316.53	710.45	2078.91	1719.14	66.52	16.30	5900.00	0.0041	2.88	9.59	49.37	12.09	5900.00	0.0041	8.44	10.27	9.04	10.50	10.27	10.50
VANO 9	1.20	2.00	1801.53	683.29	2004.31	1634.80	51.73	12.67	5900.00	0.0041	2.77	7.72	46.94	11.50	5900.00	0.0041	8.14	9.82	9.04	10.50	9.82	10.50
VANO 9	2.40	3.00	1698.44	656.36	1931.63	1550.33	48.77	11.95	5900.00	0.0041	2.66	7.31	44.52	10.91	5900.00	0.0041	7.84	9.37	9.04	10.50	9.37	10.50
VANO 9	3.60	4.00	1605.64	629.66	1860.88	1465.72	46.11	11.30	5900.00	0.0041	2.56	6.93	42.09	10.31	5900.00	0.0041	7.55	8.93	9.04	10.50	9.04	10.50
VANO 9	4.80	5.00	1513.50	603.18	1792.05	1381.00	43.46	10.65	5900.00	0.0041	2.45	6.55	39.66	9.72	5900.00	0.0041	7.27	8.50	9.04	10.50	9.04	10.50
VANO 9	4.80	6.00	1513.50	603.18	1792.05	1381.00	43.46	10.65	5900.00	0.0041	2.45	6.55	39.66	9.72	5900.00	0.0041	7.27	8.50	9.04	10.50	9.04	10.50
VANO 9	6.00	7.00	1422.07	576.92	1725.15	1296.15	40.84	10.00	5900.00	0.0041	2.34	6.17	37.22	9.12	5900.00	0.0041	7.00	8.06	9.04	10.50	9.04	10.50
VANO 9	7.20	8.00	1331.41	550.89	1660.18	1211.18	38.23	9.37	5900.00	0.0041	2.24	5.80	34.78	8.52	5900.00	0.0041	6.74	7.63	9.04	10.50	9.04	10.50
VANO 9	8.40	9.00	1232.18	525.09	1597.13	1126.11	35.38	8.67	5900.00	0.0041	2.13	5.40	32.34	7.92	5900.00	0.0041	6.48	7.20	9.04	10.50	9.04	10.50
VANO 9	9.60	10.00	1130.68	499.51	1536.31	1040.92	32.47	7.95	5900.00	0.0041	2.03	4.99	29.89	7.32	5900.00	0.0041	6.24	6.78	9.04	10.50	9.04	10.50
VANO 9	9.60	11.00	1130.68	499.51	1536.31	1040.92	32.47	7.95	5900.00	0.0041	2.03	4.99	29.89	7.32	5900.00	0.0041	6.24	6.78	9.04	10.50	9.04	10.50
VANO 9	10.80	12.00	1030.10	474.16	1476.32	955.64	29.58	7.25	5900.00	0.0041	1.92	4.59	27.44	6.72	5900.00	0.0041	5.99	6.36	9.04	10.50	9.04	10.50
VANO 9	12.00	13.00	930.46	449.04	1419.56	870.26	26.72	6.55	5900.00	0.0041	1.82	4.18	24.99	6.12	5900.00	0.0041	5.76	5.94	9.04	10.50	9.04	10.50
VANO 9	13.20	14.00	831.83	424.14	1364.22	784.80	23.89	5.85	5900.00	0.0041	1.72	3.79	22.54	5.52	5900.00	0.0041	5.54	5.53	9.04	10.50	9.04	10.50
VANO 9	14.40	15.00	734.22	399.46	1310.50	699.25	21.08	5.17	5900.00	0.0041	1.62	3.39	20.08	4.92	5900.00	0.0041	5.32	5.12	9.04	10.50	9.04	10.50
VANO 9	14.40	16.00	717.28	399.46	1310.50	682.31	20.60	5.05	5900.00	0.0041	1.62	3.33	19.59	4.80	5900.00	0.0041	5.32	5.06	9.04	10.50	9.04	10.50
VANO 9	15.60	17.00	620.74	375.01	1259.32	596.69	17.82	4.37	5900.00	0.0041	1.52	2.94	17.13	4.20	5900.00	0.0041	5.11	4.65	9.04	10.50	9.04	10.50
VANO 9	16.80	18.00	525.30	350.79	1209.33	511.01	15.08	3.70	5900.00	0.0041	1.42	2.56	14.67	3.60	5900.00	0.0041	4.91	4.25	9.04	10.50	9.04	10.50
VANO 9	18.00	19.00	430.99	326.79	1165.15	425.27	12.38	3.03	5900.00	0.0041	1.33	2.18	12.21	2.99	5900.00	0.0041	4.73	3.86	9.04	10.50	9.04	10.50
VANO 9	19.20	20.00	489.77	177.07	1122.79	339.48	14.06	3.45	5900.00	0.0041	0.72	2.08	9.75	2.39	5900.00	0.0041	4.56	3.47	9.04	10.50	9.04	10.50
VANO 9	19.20	21.00	489.77	177.07	1122.79	339.48	14.06	3.45	5900.00	0.0041	0.72	2.08	9.75	2.39	5900.00	0.0041	4.56	3.47	9.04	10.50	9.04	10.50
VANO 9	20.40	22.00	567.43	166.70	1083.34	253.66	16.29	3.99	5900.00	0.0041	0.68	2.33	7.28	1.78	5900.00	0.0041	4.40	3.09	9.04	10.50	9.04	10.50
VANO 9	21.60	23.00	646.40	156.32	1049.11	167.81	18.56	4.55	5900.00	0.0041	0.63	2.59	4.82	1.18	5900.00	0.0041	4.26	2.72	9.04	10.50	9.04	10.50
VANO 9	22.80	24.00	726.69	145.95	1024.04	82.85	20.87	5.11	5900.00	0.0041	0.59	2.85	2.38	0.58	5900.00	0.0041	4.16	2.37	9.04	10.50	9.04	10.50
VANO 9	24.00	25.00	399.83	135.57	1050.35	4.40	11.48	2.81	5900.00	0.0041	0.55	1.68	0.13	0.03	5900.00	0.0041	4.26	2.15	9.04	10.50	9.04	10.50
VANO 9	24.00	26.00	399.83	135.57	1050.35	4.40	11.48	2.81	5900.00	0.0041	0.55	1.68	0.13	0.03	5900.00	0.0041	4.26	2.15	9.04	10.50	9.04	10.50
VANO 9	25.20	27.00	711.62	187.04	1087.37	90.08	20.43	5.01	5900.00	0.0041	0.76	2.88	2.59	0.63	5900.00	0.0041	4.42	2.52	9.04	10.50	9.04	10.50
VANO 9	26.40	28.00	631.31	164.70	1127.32	175.95	18.13	4.44	5900.00	0.0041	0.67	2.55	5.05	1.24	5900.00	0.0041	4.58	2.91	9.04	10.50	9.04	10.50
VANO 9	27.60	29.00	552.32	142.63	1168.70	261.80	15.86	3.89	5900.00	0.0041	0.58	2.23	7.52	1.84	5900.00	0.0041	4.74	3.29	9.04	10.50	9.04	10.50
VANO 9	28.80	30.00	474.65	120.83	1212.32	347.62	13.63	3.34	5900.00	0.0041	0.49	1.91	9.98	2.45	5900.00	0.0041	4.92	3.68	9.04	10.50	9.04	10.50
VANO 9	28.80	31.00	474.65	120.83	1212.32	347.62	13.63	3.34	5900.00	0.0041	0.49	1.91	9.98	2.45	5900.00	0.0041	4.92	3.68	9.04	10.50	9.04	10.50
VANO 9	30.00	32.00	441.60	111.38	1258.07	433.40	12.68	3.11	5900.00	0.0041	0.45	1.78	12.45	3.05	5900.00	0.0041	5.11	4.08	9.04	10.50	9.04	10.50
VANO 9	31.20	33.00	535.90	124.89	1305.35	519.14	15.39	3.77	5900.00	0.0041	0.51	2.14	14.91	3.65	5900.00	0.0041	5.30	4.48	9.04	10.50	9.04	10.50
VANO 9	32.40	34.00	631.32	143.44	1355.96	604.82	18.13	4.44	5900.00	0.0041	0.58	2.51	17.37	4.26	5900.00	0.0041	5.50	4.88	9.04	10.50	9.04	10.50
VANO 9	33.60	35.00	727.84	163.77	1407.19	690.44	20.90	5.12	5900.00	0.0041	0.66	2.89	19.83	4.86	5900.00	0.0041	5.71	5.28	9.04	10.50	9.04	10.50
VANO 9	33.60	36.00	727.84	163.77	1407.19	690.44	20.90	5.12	5900.00	0.0041	0.66	2.89	19.83	4.86	5900.00	0.0041	5.71	5.28	9.04	10.50	9.04	10.50
VANO 9	34.80	37.00	825.43	184.39	1460.76	775.98	23.70	5.81	5900.00	0.0041	0.75	3.28	22.28	5.46	5900.00	0.0041	5.93	5.69	9.04	10.50	9.04	10.50
VANO 9	36.00	38.00	924.05	205.23	1516.35	861.45	26.53	6.50	5900.00	0.0041	0.83	3.67	24.74	6.06	5900.00	0.0041	6.15	6.11	9.04	10.50	9.04	10.50
VANO 9	37.20	39.00	1023.67	226.30	1573.66	946.82	29.40	7.20	5900.00	0.0041	0.92	4.06	27.19	6.66	5900.00	0.0041	6.39	6.52	9.04	10.50	9.04	10.50
VANO 9	38.40	40.00	1124.25	247.59	1633.01	1032.11	32.28	7.91	5900.00	0.0041	1.01	4.46	29.64	7.26	5900.00	0.0041	6.63	6.94	9.04	10.50	9.04	10.50
VANO 9	38.40	41.00	1124.25	247.59	1633.01	1032.11	32.28	7.91	5900.00	0.0041	1.01	4.46	29.64	7.26	5900.00	0.0041	6.63	6.94	9.04	10.50	9.04	10.50
VANO 9	39.60	42.00	1225.73	269.50	1694.38	1117.29	35.20	8.62	5900.00	0.0041	1.09	4.86	32.08	7.86	5900.00	0.0041	6.88	7.37	9.04	10.50	9.04	10.50
VANO 9	40.80	43.00	1328.09	292.13	1757.48	1202.36	38.14	9.34	5900.00	0.0041	1.19	5.26	34.53	8.46	5900.00	0.0041	7.13	7.80	9.04	10.50	9.04	10.50
VANO 9	42.00	44.00	1431.26	314.99	1822.60	1287.33	41.10	10.07	5900.00	0.0041	1.28	5.67	36.97	9.06	5900.00	0.0041	7.40	8.23	9.04	10.50	9.04	10.50
VANO 9	43.20	45.00	1535.21	338.08	1889.66	1372.17	44.08	10.80	5900.00	0.0041	1.37	6.09	39.40	9.65	5900.00	0.0041	7.67	8.66	9.04	10.50	9.04	10.50
VANO 9	43.20	46.00	1535.21	338.08	1889.66	1372.17	44.08	10.80	5900.00	0.0041	1.37	6.09	39.40	9.65	5900.00	0.0041	7.67	8.66	9.04	10.50	9.04	10.50
VANO 9	44.40	47.00	1639.87	361.39	1958.64	1456.90	47.09	11.54	5900.00	0.0041	1.47	6.50	41.84	10.25	5900.00	0.0041	7.95	9.10	9.04	10.50	9.10	10.50
VANO 9	45.60	48.00	1745.20	384.93	2029.54	1541.49	50.11	12.28	5900.00	0.0041	1.56	6.92	44.26	10.84	5900.00	0.0041	8.24	9.54	9.04	10.50	9.54	10.50
VANO 9	46.80	49.00	1851.13	408.69	2102.38	1625.96	53.16	13.02	5900.00	0.0041	1.66	7.34	46.69	11.44	5900.00	0.0041	8.53	9.99	9.04	10.50	9.99	10.50
VANO 9	48.00	50.00	1956.81	433.68	2177.46	1710.80	57.44	14.08	5900.00	0.0041	1.76	8.20	49.11	12.04	5900.00	0.0041	8.81	10.45	9.04	10.50	10.45	10.50
VANO 10	0.00	1.00	2316.53	710.45	2116.28	1713.85	66.52	16.30	5900.00	0.0041	2.88	9.59	49.21	12.06	5900.00	0.0041	8.59	10.32	9.04	10.50	10.32	10.50
VANO 10	1.20	2.00	1801.53	683.29	2041.81	1629.51	51.73	12.67	5900.00	0.0041	2.77	7.72	46.79	11.46	5900.00	0.0041	8.29	9.88	9.04	10.50	9.88	10.50
VANO 10	2.40	3.00	1698.44	656.36	1969.35	1545.03	48.77	11.95	5900.00	0.0041	2.66	7.31	44.37	10.87	5900.00	0.0041	7.99	9.43	9.04	10.50	9.43	10.50
VANO 10	3.60	4.00	1605.64	629.66	1898.61	1460.43	46.11	11.30	5900.00	0.0041	2.56	6.93	41.94	10.27	5900.00	0.0041	7.71	8.99	9.04	10.50	9.04	10.50
VANO 10	4.80	5.00	1513.50	603.18	1829.89	1375.69	43.46	10.65	5900.00	0.0041	2.45	6.55	39.50	9.68	5900.00	0.0041	7.43	8.55	9.04	10.50	9.04	10.50
VANO 10	4.80	6.00	1513.50	603.18	1829.89	1375.69	43.46	10.65	5900.00	0.0041	2.45	6.55	39.50	9.68	5900.00	0.0041	7.43	8.55	9.04	10.50	9.04	10.50
VANO 10	6.00	7.00	1422.07	576.92	1763.09	1290.84	40.84	10.00	5900.00	0.0041	2.34	6.17	37.07	9.08	5900.00	0.0041	7.16	8.12	9.04	10.50	9.04	10.50
VANO 10	7.20	8.00	1331.41	550.89	1698.10	1205.87	38.23	9.37	5900.00	0.0041	2.24	5.80	34.63	8.48	5900.00	0.0041	6.89	7.69	9.04	10.50	9.04	10.50
VANO 10	8.40	9.00	1232.18	525.09	1635.24	1120.78	35.38	8.67	5900.00	0.0041	2.13	5.40	32.18	7.89	5900.00	0.0041	6.64	7.26	9.04	10.50	9.04	10.50
VANO 10	9.60	10.00	1130.68	499.51	1574.19	1035.59	32.47	7.95	5900.00	0.0041	2.03	4.99	29.74	7.29	5900.00	0.0041	6.39	6.84	9.04	10.50	9.04	10.50
VANO 10	9.60	11.00	1130.68	499.51	1574.19	1035.59	32.47	7.95	5900.00	0.0041	2.03	4.99	29.74	7.29	5900.00	0.0041	6.39	6.84	9.04	10.50	9.04	10.50
VANO 10	10.80	12.00	1030.10	474.16	1515.06	950.30	29.58	7.25	5900.00	0.0041	1.92	4.59	27.29	6.69	5900.00	0.0041	6.15	6.42	9.04	10.50	9.04	10.50
VANO 10	12.00	13.00	930.46	449.04	1457.65	864.92	26.72	6.55	5900.00	0.0041	1.82	4.18	24.84	6.08	5900.00	0.0041	5.92	6.00	9.04	10.50	9.04	10.50
VANO 10	13.20	14.00	831.83	424.14	1402.56	779.44	23.89	5.85	5900.00	0.0041	1.72	3.79	22.38	5.48	5900.00	0.0041	5.69	5.59	9.04	10.50	9.04	10.50
VANO 10	14.40	15.00	734.22	399.46	1349.19	693.89	21.08	5.17	5900.00	0.0041	1.62	3.39	19.93	4.88	5900.00	0.0041	5.48	5.18	9.04	10.50	9.04	10.50
VANO 10	14.40	16.00	717.28	399.46	1349.19	676.95	20.60	5.05	5900.00	0.0041	1.62	3.33	19.44	4.76	5900.00	0.0041	5.48	5.12	9.04	10.50	9.04	10.50
VANO 10	15.60	17.00	620.74	375.01	1297.73	591.32	17.82	4.37	5900.00	0.0041	1.52	2.94	16.98	4.16	5900.00	0.0041	5.27	4.71	9.04	10.50	9.04	10.50
VANO 10	16.80	18.00	525.30	350.79	1248.48	505.63	15.08	3.70	5900.00	0.0041	1.42	2.56	14.52	3.56	5900.00	0.0041	5.07	4.31	9.04	10.50	9.04	10.50
VANO 10	18.00	19.00	430.99	326.79	1203.00	419.89	12.38	3.03	5900.00	0.0041	1.33	2.18	12.06	2.95	5900.00	0.0041	4.89	3.92	9.04	10.50	9.04	10.50
VANO 10	19.20	20.00	489.77	177.07	1161.17	334.10	14.06	3.45	5900.00	0.0041	0.72	2.08	9.59	2.35	5900.00	0.0041	4.71	3.53	9.04	10.50	9.04	10.50
VANO 10	19.20	21.00	489.77	177.07	1161.17	334.10	14.06	3.45	5900.00	0.0041	0.72	2.08	9.59	2.35	5900.00	0.0041	4.71	3.53	9.04	10.50	9.04	10.50
VANO 10	20.40	22.00	567.43	166.70	1120.92	248.27	16.29	3.99	5900.00	0.0041	0.68	2.33	7.13	1.75	5900.00	0.0041	4.55	3.15	9.04	10.50	9.04	10.50
VANO 10	21.60	23.00	646.40	156.32	1085.17	162.41	18.56	4.55	5900.00	0.0041	0.63	2.59	4.66	1.14	5900.00	0.0041	4.40	2.77	9.04	10.50	9.04	10.50
VANO 10	22.80	24.00	726.69	145.95	1056.79	77.40	20.87	5.11	5900.00	0.0041	0.59	2.85	2.22	0.54	5900.00	0.0041	4.29	2.42	9.04	10.50	9.04	10.50
VANO 10	24.00	25.00	399.83	135.57	1081.32	9.42	11.48	2.81	5900.00	0.0041	0.55	1.68	0.27	0.07	5900.00	0.0041	4.39	2.23	9.04	10.50	9.04	10.50
VANO 10	24.00	26.00	399.83	135.57	1081.32	9.42	11.48	2.81	5900.00	0.0041	0.55	1.68	0.27	0.07	5900.00	0.0041	4.39	2.23	9.04	10.50	9.04	10.50
VANO 10	25.20	27.00	711.62	187.04	1118.21	95.30	20.43	5.01	5900.00	0.0041	0.76	2.88	2.74	0.67	5900.00	0.0041	4.54	2.60	9.04	10.50	9.04	10.50
VANO 10	26.40	28.00	631.31	164.70	1157.44	181.18	18.13	4.44	5900.00	0.0041	0.67	2.55	5.20	1.27	5900.00	0.0041	4.70	2.99	9.04	10.50	9.04	10.50
VANO 10	27.60	29.00	552.32	142.63	1198.68	267.03	15.86	3.89	5900.00	0.0041	0.58	2.23	7.67	1.88	5900.00	0.0041	4.87	3.37	9.04	10.50	9.04	10.50
VANO 10	28.80	30.00	474.65	120.83	1242.05	352.86	13.63	3.34	5900.00	0.0041	0.49	1.91	10.13	2.48	5900.00	0.0041	5.04	3.76	9.04	10.50	9.04	10.50
VANO 10	28.80	31.00	474.65	120.83	1242.05	352.86	13.63	3.34	5900.00	0.0041	0.49	1.91	10.13	2.48	5900.00	0.0041	5.04	3.76	9.04	10.50	9.04	10.50
VANO 10	30.00	32.00	441.60	111.38	1287.55	438.65	12.68	3.11	5900.00	0.0041	0.45	1.78	12.60	3.09	5900.00	0.0041	5.23	4.16	9.04	10.50	9.04	10.50
VANO 10	31.20	33.00	535.90	124.89	1335.03	524.39	15.39	3.77	5900.00	0.0041	0.51	2.14	15.06	3.69	5900.00	0.0041	5.42	4.55	9.04	10.50	9.04	10.50
VANO 10	32.40	34.00	631.32	143.44	1384.59	610.08	18.13	4.44	5900.00	0.0041	0.58	2.51	17.52	4.29	5900.00	0.0041	5.62	4.96	9.04	10.50	9.04	10.50
VANO 10	33.60	35.00	727.84	163.77	1435.85	695.70	20.90	5.12	5900.00	0.0041	0.66	2.89	19.98	4.89	5900.00	0.0041	5.83	5.36	9.04	10.50	9.04	10.50
VANO 10	33.60	36.00	727.84	163.77	1435.85	695.70	20.90	5.12	5900.00	0.0041	0.66	2.89	19.98	4.89	5900.00	0.0041	5.83	5.36	9.04	10.50	9.04	10.50
VANO 10	34.80	37.00	825.43	184.39	1489.12	781.25	23.70	5.81	5900.00	0.0041	0.75	3.28	22.43	5.50	5900.00	0.0041	6.04	5.77	9.04	10.50	9.04	10.50
VANO 10	36.00	38.00	924.05	205.23	1544.31	866.72	26.53	6.50	5900.00	0.0041	0.83	3.67	24.89	6.10	5900.00	0.0041	6.27	6.18	9.04	10.50	9.04	10.50
VANO 10	37.20	39.00	1023.67	226.30	1601.42	952.11	29.40	7.20	5900.00	0.0041	0.92	4.06	27.34	6.70	5900.00	0.0041	6.50	6.60	9.04	10.50	9.04	10.50
VANO 10	38.40	40.00	1124.25	247.59	1660.46	1037.39	32.28	7.91	5900.00	0.0041	1.01	4.46	29.79	7.30	5900.00	0.0041	6.74	7.02	9.04	10.50	9.04	10.50
VANO 10	38.40	41.00	1124.25	247.59	1660.46	1037.39	32.28	7.91	5900.00	0.0041	1.01	4.46	29.79	7.30	5900.00	0.0041	6.74	7.02	9.04	10.50	9.04	10.50
VANO 10	39.60	42.00	1225.73	269.50	1721.43	1122.58	35.20	8.62	5900.00	0.0041	1.09	4.86	32.24	7.90	5900.00	0.0041	6.99	7.44	9.04	10.50	9.04	10.50
VANO 10	40.80	43.00	1328.09	292.13	1784.23	1207.66	38.14	9.34	5900.00	0.0041	1.19	5.26	34.68	8.50	5900.00	0.0041	7.24	7.87	9.04	10.50	9.04	10.50
VANO 10	42.00	44.00	1431.26	314.99	1849.01	1292.63	41.10	10.07	5900.00	0.0041	1.28	5.67	37.12	9.09	5900.00	0.0041	7.51	8.30	9.04	10.50	9.04	10.50
VANO 10	43.20	45.00	1535.21	338.08	1915.75	1377.48	44.08	10.80	5900.00	0.0041	1.37	6.09	39.55	9.69	5900.00	0.0041	7.78	8.73	9.04	10.50	9.04	10.50
VANO 10	43.20	46.00	1535.21	338.08	1915.75	1377.48	44.08	10.80	5900.00	0.0041	1.37	6.09	39.55	9.69	5900.00	0.0041	7.78	8.73	9.04	10.50	9.04	10.50
VANO 10	44.40	47.00	1639.87	361.39	1984.37	1462.20	47.09	11.54	5900.00	0.0041	1.47	6.50	41.99	10.29	5900.00	0.0041	8.05	9.17	9.04	10.50	9.17	10.50
VANO 10	45.60	48.00	1745.20	384.93	2054.99	1546.80	50.11	12.28	5900.00	0.0041	1.56	6.92	44.42	10.88	5900.00	0.0041	8.34	9.61	9.04	10.50	9.61	10.50
VANO 10	46.80	49.00	1851.13	408.69	2127.31	1631.28	53.16	13.02	5900.00	0.0041	1.66	7.34	46.84	11.48	5900.00	0.0041	8.64	10.06	9.04	10.50	10.06	10.50

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20 008	24 9687
ys	1 495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28 5	28.5	28.5
% TESADO	0.8	0 75	75%
% PERDIDA	0.16	0 2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR ZONA CENTRAL

CARACT. RASANTE

M est (S4)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816	Ae =	20.67
fck (t/m2) =	4082	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

			Hipótesis max cortante		Hipótesis max torsor		ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC					ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC					ARMADO DEFINITV			
							Dos caras				Una cara	Dos caras					Una cara	FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 11	0.00	1.00	2316.53	710.45	2046.18	1722.87	66.52	16.30	5900.00	0.0041	2.88	9.59	49.47	12.12	5900.00	0.0041	8.31	10.21	9.04	10.50	10.21	10.50
VANO 11	1.20	2.00	1801.53	683.29	1971.37	1638.53	51.73	12.67	5900.00	0.0041	2.77	7.72	47.05	11.53	5900.00	0.0041	8.00	9.77	9.04	10.50	9.77	10.50
VANO 11	2.40	3.00	1698.44	656.36	1899.28	1554.05	48.77	11.95	5900.00	0.0041	2.66	7.31	44.63	10.93	5900.00	0.0041	7.71	9.32	9.04	10.50	9.32	10.50
VANO 11	3.60	4.00	1605.64	629.66	1828.42	1469.45	46.11	11.30	5900.00	0.0041	2.56	6.93	42.20	10.34	5900.00	0.0041	7.42	8.88	9.04	10.50	9.04	10.50
VANO 11	4.80	5.00	1513.50	603.18	1759.59	1384.72	43.46	10.65	5900.00	0.0041	2.45	6.55	39.76	9.74	5900.00	0.0041	7.14	8.44	9.04	10.50	9.04	10.50
VANO 11	4.80	6.00	1513.50	603.18	1759.59	1384.72	43.46	10.65	5900.00	0.0041	2.45	6.55	39.76	9.74	5900.00	0.0041	7.14	8.44	9.04	10.50	9.04	10.50
VANO 11	6.00	7.00	1422.07	576.92	1692.38	1299.87	40.84	10.00	5900.00	0.0041	2.34	6.17	37.33	9.14	5900.00	0.0041	6.87	8.01	9.04	10.50	9.04	10.50
VANO 11	7.20	8.00	1331.41	550.89	1627.39	1214.90	38.23	9.37	5900.00	0.0041	2.24	5.80	34.89	8.55	5900.00	0.0041	6.61	7.58	9.04	10.50	9.04	10.50
VANO 11	8.40	9.00	1232.18	525.09	1565.33	1129.81	35.38	8.67	5900.00	0.0041	2.13	5.40	32.44	7.95	5900.00	0.0041	6.35	7.15	9.04	10.50	9.04	10.50
VANO 11	9.60	10.00	1130.68	499.51	1506.12	1044.63	32.47	7.95	5900.00	0.0041	2.03	4.99	30.00	7.35	5900.00	0.0041	6.11	6.73	9.04	10.50	9.04	10.50
VANO 11	9.60	11.00	1130.68	499.51	1506.12	1044.63	32.47	7.95	5900.00	0.0041	2.03	4.99	30.00	7.35	5900.00	0.0041	6.11	6.73	9.04	10.50	9.04	10.50
VANO 11	10.80	12.00	1030.10	474.16	1450.27	959.34	29.58	7.25	5900.00	0.0041	1.92	4.59	27.55	6.75	5900.00	0.0041	5.89	6.32	9.04	10.50	9.04	10.50
VANO 11	12.00	13.00	930.46	449.04	1396.33	873.95	26.72	6.55	5900.00	0.0041	1.82	4.18	25.10	6.15	5900.00	0.0041	5.67	5.91	9.04	10.50	9.04	10.50
VANO 11	13.20	14.00	831.83	424.14	1343.77	788.48	23.89	5.85	5900.00	0.0041	1.72	3.79	22.64	5.55	5900.00	0.0041	5.45	5.50	9.04	10.50	9.04	10.50
VANO 11	14.40	15.00	734.22	399.46	1293.16	702.93	21.08	5.17	5900.00	0.0041	1.62	3.39	20.18	4.95	5900.00	0.0041	5.25	5.10	9.04	10.50	9.04	10.50
VANO 11	14.40	16.00	717.28	399.46	1293.16	685.99	20.60	5.05	5900.00	0.0041	1.62	3.33	19.70	4.83	5900.00	0.0041	5.25	5.04	9.04	10.50	9.04	10.50
VANO 11	15.60	17.00	620.74	375.01	1245.11	600.36	17.82	4.37	5900.00	0.0041	1.52	2.94	17.24	4.22	5900.00	0.0041	5.06	4.64	9.04	10.50	9.04	10.50
VANO 11	16.80	18.00	525.30	350.79	1200.34	514.67	15.08	3.70	5900.00	0.0041	1.42	2.56	14.78	3.62	5900.00	0.0041	4.87	4.25	9.04	10.50	9.04	10.50
VANO 11	18.00	19.00	430.99	326.79	1159.37	428.93	12.38	3.03	5900.00	0.0041	1.33	2.18	12.32	3.02	5900.00	0.0041	4.71	3.86	9.04	10.50	9.04	10.50
VANO 11	19.20	20.00	489.77	177.07	1124.41	343.13	14.06	3.45	5900.00	0.0041	0.72	2.08	9.85	2.41	5900.00	0.0041	4.56	3.49	9.04	10.50	9.04	10.50
VANO 11	19.20	21.00	489.77	177.07	1124.41	343.13	14.06	3.45	5900.00	0.0041	0.72	2.08	9.85	2.41	5900.00	0.0041	4.56	3.49	9.04	10.50	9.04	10.50
VANO 11	20.40	22.00	567.43	166.70	1091.28	257.31	16.29	3.99	5900.00	0.0041	0.68	2.33	7.39	1.81	5900.00	0.0041	4.43	3.12	9.04	10.50	9.04	10.50
VANO 11	21.60	23.00	646.40	156.32	1072.19	173.29	18.56	4.55	5900.00	0.0041	0.63	2.59	4.98	1.22	5900.00	0.0041	4.35	2.79	9.04	10.50	9.04	10.50
VANO 11	22.80	24.00	726.69	145.95	1088.03	86.52	20.87	5.11	5900.00	0.0041	0.59	2.85	2.48	0.61	5900.00	0.0041	4.42	2.51	9.04	10.50	9.04	10.50
VANO 11	24.00	25.00	399.83	135.57	1119.74	1.70	11.48	2.81	5900.00	0.0041	0.55	1.68	0.05	0.01	5900.00	0.0041	4.55	2.28	9.04	10.50	9.04	10.50
VANO 11	24.00	26.00	399.83	135.57	1119.74	1.70	11.48	2.81	5900.00	0.0041	0.55	1.68	0.05	0.01	5900.00	0.0041	4.55	2.28	9.04	10.50	9.04	10.50
VANO 11	25.20	27.00	711.62	187.04	1156.83	86.22	20.43	5.01	5900.00	0.0041	0.76	2.88	2.48	0.61	5900.00	0.0041	4.70	2.65	9.04	10.50	9.04	10.50
VANO 11	26.40	28.00	631.31	164.70	1196.05	172.09	18.13	4.44	5900.00	0.0041	0.67	2.55	4.94	1.21	5900.00	0.0041	4.86	3.03	9.04	10.50	9.04	10.50
VANO 11	27.60	29.00	552.32	142.63	1237.41	257.95	15.86	3.89	5900.00	0.0041	0.58	2.23	7.41	1.81	5900.00	0.0041	5.02	3.42	9.04	10.50	9.04	10.50
VANO 11	28.80	30.00	474.65	120.83	1280.80	343.78	13.63	3.34	5900.00	0.0041	0.49	1.91	9.87	2.42	5900.00	0.0041	5.20	3.81	9.04	10.50	9.04	10.50
VANO 11	28.80	31.00	474.65	120.83	1280.80	343.78	13.63	3.34	5900.00	0.0041	0.49	1.91	9.87	2.42	5900.00	0.0041	5.20	3.81	9.04	10.50	9.04	10.50
VANO 11	30.00	32.00	441.60	111.38	1326.51	429.57	12.68	3.11	5900.00	0.0041	0.45	1.78	12.34	3.02	5900.00	0.0041	5.38	4.20	9.04	10.50	9.04	10.50
VANO 11	31.20	33.00	535.90	124.89	1374.16	515.32	15.39	3.77	5900.00	0.0041	0.51	2.14	14.80	3.63	5900.00	0.0041	5.58	4.60	9.04	10.50	9.04	10.50
VANO 11	32.40	34.00	631.32	143.44	1423.73	601.01	18.13	4.44	5900.00	0.0041	0.58	2.51	17.26	4.23	5900.00	0.0041	5.78	5.00	9.04	10.50	9.04	10.50
VANO 11	33.60	35.00	727.84	163.77	1475.23	686.63	20.90	5.12	5900.00	0.0041	0.66	2.89	19.72	4.83	5900.00	0.0041	5.99	5.41	9.04	10.50	9.04	10.50
VANO 11	33.60	36.00	727.84	163.77	1475.23	686.63	20.90	5.12	5900.00	0.0041	0.66	2.89	19.72	4.83	5900.00	0.0041	5.99	5.41	9.04	10.50	9.04	10.50
VANO 11	34.80	37.00	825.43	184.39	1528.65	772.18	23.70	5.81	5900.00	0.0041	0.75	3.28	22.17	5.43	5900.00	0.0041	6.21	5.82	9.04	10.50	9.04	10.50
VANO 11	36.00	38.00	924.05	205.23	1584.00	857.66	26.53	6.50	5900.00	0.0041	0.83	3.67	24.63	6.03	5900.00	0.0041	6.43	6.23	9.04	10.50	9.04	10.50
VANO 11	37.20	39.00	1023.67	226.30	1641.27	943.04	29.40	7.20	5900.00	0.0041	0.92	4.06	27.08	6.63	5900.00	0.0041	6.66	6.65	9.04	10.50	9.04	10.50
VANO 11	38.40	40.00	1124.25	247.59	1700.47	1028.33	32.28	7.91	5900.00	0.0041	1.01	4.46	29.53	7.23	5900.00	0.0041	6.90	7.07	9.04	10.50	9.04	10.50
VANO 11	38.40	41.00	1124.25	247.59	1700.47	1028.33	32.28	7.91	5900.00	0.0041	1.01	4.46	29.53	7.23	5900.00	0.0041	6.90	7.07	9.04	10.50	9.04	10.50
VANO 11	39.60	42.00	1225.73	269.50	1761.60	1113.52	35.20	8.62	5900.00	0.0041	1.09	4.86	31.98	7.83	5900.00	0.0041	7.15	7.49	9.04	10.50	9.04	10.50
VANO 11	40.80	43.00	1328.09	292.13	1824.64	1196.60	38.14	9.34	5900.00	0.0041	1.19	5.26	34.42	8.43	5900.00	0.0041	7.41	7.92	9.04	10.50	9.04	10.50
VANO 11	42.00	44.00	1431.26	314.99	1889.62	1283.57	41.10	10.07	5900.00	0.0041	1.28	5.67	36.86	9.03	5900.00	0.0041	7.67	8.35	9.04	10.50	9.04	10.50
VANO 11	43.20	45.00	1535.21	338.08	1956.52	1368.43	44.08	10.80	5900.00	0.0041	1.37	6.09	39.29	9.63	5900.00	0.0041	7.94	8.78	9.04	10.50	9.04	10.50
VANO 11	43.20	46.00	1535.21	338.08	1956.52	1368.43	44.08	10.80	5900.00	0.0041	1.37	6.09	39.29	9.63	5900.00	0.0041	7.94	8.78	9.04	10.50	9.04	10.50
VANO 11	44.40	47.00	1639.87	361.39	2025.34	1453.16	47.09	11.54	5900.00	0.0041	1.47	6.50	41.73	10.22	5900.00	0.0041	8.22	9.22	9.04	10.50	9.22	10.50
VANO 11	45.60	48.00	1745.20	384.93	2096.09	1537.76	50.11	12.28	5900.00	0.0041	1.56	6.92	44.16	10.82	5900.00	0.0041	8.51	9.66	9.04	10.50	9.66	10.50
VANO 11	46.80	49.00	1851.13	408.69	2168.77	1622.24	53.16	13.02	5900.00	0.0041	1.66	7.34	46.58	11.41	5900.00	0.0041	8.80	10.11	9.04	10.50	10.11	10.50
VANO 11	48.00	50.00	2064.13	432.64	2243.37	1706.91	57.94	14.05	5900.00	0.0041	1.76	8.12	49.01	12.01	5900.00	0.0041	9.11	10.45	9.04	10.50	10.45	10.50
VANO 12	0.00	1.00	2316.53	710.45	2093.30	1716.19	66.52	16.30	5900.00	0.0041	2.88	9.59	49.28	12.07	5900.00	0.0041	8.50	10.29	9.04	10.50	10.29	10.50
VANO 12	1.20	2.00	1801.53	683.29	2018.28	1631.85	51.73	12.67	5900.00	0.0041	2.77	7.72	46.86	11.48	5900.00	0.0041	8.19	9.84	9.04	10.50	9.84	10.50
VANO 12	2.40	3.00	1698.44	656.36	1945.15	1547.38	48.77	11.95	5900.00	0.0041	2.66	7.31	44.43	10.89	5900.00	0.0041	7.90	9.39	9.04	10.50	9.39	10.50
VANO 12	3.60	4.00	1605.64	629.66	1874.00	1462.78	46.11	11.30	5900.00	0.0041	2.56	6.93	42.00	10.29	5900.00	0.0041	7.61	8.95	9.04	10.50	9.04	10.50
VANO 12	4.80	5.00	1513.50	603.18	1804.78	1378.05	43.46	10.65	5900.00	0.0041	2.45	6.55	39.57	9.69	5900.00	0.0041	7.33	8.51	9.04	10.50	9.04	10.50
VANO 12	4.80	6.00	1513.50	603.18	1804.78	1378.05	43.46	10.65	5900.00	0.0041	2.45	6.55	39.57	9.69	5900.00	0.0041	7.33	8.51	9.04	10.50	9.04	10.50
VANO 12	6.00	7.00	1422.07	576.92	1737.53	1293.20	40.84	10.00	5900.00	0.0041	2.34	6.17	37.13	9.10	5900.00	0.0041	7.05	8.08	9.04	10.50	9.04	10.50
VANO 12	7.20	8.00	1331.41	550.89	1672.13	1208.23	38.23	9.37	5900.00	0.0041	2.24	5.80	34.69	8.50	5900.00	0.0041	6.79	7.64	9.04	10.50	9.04	10.50
VANO 12	8.40	9.00	1232.18	525.09	1608.77	1123.15	35.38	8.67	5900.00	0.0041	2.13	5.40	32.25	7.90	5900.00	0.0041	6.53	7.22	9.04	10.50	9.04	10.50
VANO 12	9.60	10.00	1130.68	499.51	1547.31	1037.96	32.47	7.95	5900.00	0.0041	2.03	4.99	29.81	7.30	5900.00	0.0041	6.28	6.79	9.04	10.50	9.04	10.50
VANO 12	9.60	11.00	1130.68	499.51	1547.31	1037.96	32.47	7.95	5900.00	0.0041	2.03	4.99	29.81	7.30	5900.00	0.0041	6.28	6.79	9.04	10.50	9.04	10.50
VANO 12	10.80	12.00	1030.10	474.16	1487.83	952.67	29.58	7.25	5900.00	0.0041	1.92	4.59	27.36	6.70	5900.00	0.0041	6.04	6.37	9.04	10.50	9.04	10.50
VANO 12	12.00	13.00	930.46	449.04	1430.22	867.29	26.72	6.55	5900.00	0.0041	1.82	4.18	24.90	6.10	5900.00	0.0041	5.81	5.95	9.04	10.50	9.04	10.50
VANO 12	13.20	14.00	831.83	424.14	1374.53	781.81	23.89	5.85	5900.00	0.0041	1.72	3.79	22.45	5.50	5900.00	0.0041	5.58	5.54	9.04	10.50	9.04	10.50
VANO 12	14.40	15.00	734.22	399.46	1320.93	696.26	21.08	5.17	5900.00	0.0041	1.62	3.39	19.99	4.90	5900.00	0.0041	5.36	5.13	9.04	10.50	9.04	10.50
VANO 12	14.40	16.00	717.28	399.46	1320.93	679.32	20.60	5.05	5900.00	0.0041	1.62	3.33	19.51	4.78	5900.00	0.0041	5.36	5.07	9.04	10.50	9.04	10.50
VANO 12	15.60	17.00	620.74	375.01	1269.11	593.70	17.82	4.37	5900.00	0.0041	1.52	2.94	17.05	4.18	5900.00	0.0041	5.15	4.68	9.04	10.50	9.04	10.50
VANO 12	16.80	18.00	525.30	350.79	1219.34	508.01	15.08	3.70	5900.00	0.0041	1.42	2.56	14.59	3.57	5900.00	0.0041	4.95	4.26	9.04	10.50	9.04	10.50
VANO 12	18.00	19.00	430.99	326.79	1171.47	422.27	12.38	3.03	5900.00	0.0041	1.33	2.18	12.13	2.97	5900.00	0.0041	4.76	3.86	9.04	10.50	9.04	10.50
VANO 12	19.20	20.00	489.77	177.07	1125.64	336.48	14.06	3.45	5900.00	0.0041	0.72	2.08	9.66	2.37	5900.00	0.0041	4.57	3.47	9.04	10.50	9.04	10.50
VANO 12	19.20	21.00	489.77	177.07	1125.64	336.48	14.06	3.45	5900.00	0.0041	0.72	2.08	9.66	2.37	5900.00	0.0041	4.57	3.47	9.04	10.50	9.04	10.50
VANO 12	20.40	22.00	567.43	166.70	1081.97	250.65	16.29	3.99	5900.00	0.0041	0.68	2.33	7.20	1.76	5900.00	0.0041	4.39	3.08	9.04	10.50	9.04	10.50
VANO 12	21.60	23.00	646.40	156.32	1042.99	164.79	18.56	4.55	5900.00	0.0041	0.63	2.59	4.73	1.16	5900.00	0.0041	4.23	2.70	9.04	10.50	9.04	10.50
VANO 12	22.80	24.00	726.69	145.95	1007.26	78.92	20.87	5.11	5900.00	0.0041	0.59	2.85	2.27	0.56	5900.00	0.0041	4.09	2.32	9.04	10.50	9.04	10.50
VANO 12	24.00	25.00	399.83	135.57	1006.77	6.97	11.48	2.81	5900.00	0.0041	0.55	1.68	0.20	0.05	5900.00	0.0041	4.09	2.07	9.04	10.50	9.04	10.50
VANO 12	24.00	26.00	399.83	135.57	1006.77	6.97	11.48	2.81	5900.00	0.0041	0.55	1.68	0.20	0.05	5900.00	0.0041	4.09	2.07	9.04	10.50	9.04	10.50
VANO 12	25.20	27.00	711.62	187.04	1043.85	92.85	20.43	5.01	5900.00	0.0041	0.76	2.88	2.67	0.65	5900.00	0.0041	4.24	2.45	9.04	10.50	9.04	10.50
VANO 12	26.40	28.00	631.31	164.70	1082.99	178.73	18.13	4.44	5900.00	0.0041	0.67	2.55	5.13	1.26	5900.00	0.0041	4.40	2.83	9.04	10.50	9.04	10.50
VANO 12	27.60	29.00	552.32	142.63	1124.33	264.58	15.86	3.89	5900.00	0.0041	0.58	2.23	7.60	1.86	5900.00	0.0041	4.56	3.21	9.04	10.50	9.04	10.50
VANO 12	28.80	30.00	474.65	120.83	1167.86	350.41	13.63	3.34	5900.00	0.0041	0.49	1.91	10.06	2.47	5900.00	0.0041	4.74	3.60	9.04	10.50	9.04	10.50
VANO 12	28.80	31.00	474.65	120.83	1167.86	350.41	13.63	3.34	5900.00	0.0041	0.49	1.91	10.06	2.47	5900.00	0.0041	4.74	3.60	9.04	10.50	9.04	10.50
VANO 12	30.00	32.00	441.60	111.38	1213.42	436.20	12.68	3.11	5900.00	0.0041	0.45	1.78	12.53	3.07	5900.00	0.0041	4.93	4.00	9.04	10.50	9.04	10.50
VANO 12	31.20	33.00	535.90	124.89	1261.18	521.94	15.39	3.77	5900.00	0.0041	0.51	2.14	14.99	3.67	5900.00	0.0041	5.12	4.40	9.04	10.50	9.04	10.50
VANO 12	32.40	34.00	631.32	143.44	1310.72	607.63	18.13	4.44	5900.00	0.0041	0.58	2.51	17.45	4.27	5900.00	0.0041	5.32	4.80	9.04	10.50	9.04	10.50
VANO 12	33.60	35.00	727.84	163.77	1362.23	693.25	20.90	5.12	5900.00	0.0041	0.66	2.89	19.91	4.88	5900.00	0.0041	5.53	5.20	9.04	10.50	9.04	10.50
VANO 12	33.60	36.00	727.84	163.77	1362.23	693.25	20.90	5.12	5900.00	0.0041	0.66	2.89	19.91	4.88	5900.00	0.0041	5.53	5.20	9.04	10.50	9.04	10.50
VANO 12	34.80	37.00	825.43	184.39	1415.77	778.80	23.70	5.81	5900.00	0.0041	0.75	3.28	22.36	5.48	5900.00	0.0041	5.75	5.61	9.04	10.50	9.04	10.50
VANO 12	36.00	38.00	924.05	205.23	1471.21	864.27	26.53	6.50	5900.00	0.0041	0.83	3.67	24.82	6.08	5900.00	0.0041	5.97	6.03	9.04	10.50	9.04	10.50
VANO 12	37.20	39.00	1023.67	226.30	1528.58	949.65	29.40	7.20	5900.00	0.0041	0.92	4.06	27.27	6.68	5900.00	0.0041	6.20	6.44	9.04	10.50	9.04	10.50
VANO 12	38.40	40.00	1124.25	247.59	1587.90	1034.94	32.28	7.91	5900.00	0.0041	1.01	4.46	29.72	7.28	5900.00	0.0041	6.45	6.86	9.04	10.50	9.04	10.50
VANO 12	38.40	41.00	1124.25	247.59	1587.90	1034.94	32.28	7.91	5900.00	0.0041	1.01	4.46	29.72	7.28	5900.00	0.0041	6.45	6.86	9.04	10.50	9.04	10.50
VANO 12	39.60	42.00	1225.73	269.50	1649.16	1120.12	35.20	8.62	5900.00	0.0041	1.09	4.86	32.16	7.88	5900.00	0.0041	6.69	7.29	9.04	10.50	9.04	10.50
VANO 12	40.80	43.00	1328.09	292.13	1712.37	1205.20	38.14	9.34	5900.00	0.0041	1.19	5.26	34.61	8.48	5900.00	0.0041	6.95	7.71	9.04	10.50	9.04	10.50
VANO 12	42.00	44.00	1431.26	314.99	1777.51	1290.17	41.10	10.07	5900.00	0.0041	1.28	5.67	37.05	9.08	5900.00	0.0041	7.22	8.15	9.04	10.50	9.04	10.50
VANO 12	43.20	45.00	1535.21	338.08	1844.59	1375.02	44.08	10.80	5900.00	0.0041	1.37	6.09	39.48	9.67	5900.00	0.0041	7.49	8.58	9.04	10.50	9.04	10.50
VANO 12	43.20	46.00	1535.21	338.08	1844.59	1375.02	44.08	10.80	5900.00	0.0041	1.37	6.09	39.48	9.67	5900.00	0.0041	7.49	8.58	9.04	10.50	9.04	10.50
VANO 12	44.40	47.00	1639.87	361.39	1913.61	1459.75	47.09	11.54	5900.00	0.0041	1.47	6.50	41.92	10.27	5900.00	0.0041	7.77	9.02	9.04	10.50	9.04	10.50
VANO 12	45.60	48.00	1745.20	384.93	1984.58	1544.35	50.11	12.28	5900.00	0.0041	1.56	6.92	44.35	10.86	5900.00	0.0041	8.06	9.46	9.04	10.50	9.46	10.50
VANO 12	46.80	49.00	1851.13	408.69	2057.49	1628.82	53.16	13.02	5900.00	0.0041	1.66	7.34	46.77	11.46	5900.00	0.0041	8.35	9.91	9.04	10.50	9.91	10.50

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 3 PILA
I	20 008	24.9687
ys	1.495	1 754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	75%	75%
% PERDIDA	0.16	20%	20%
COEF. SEG	1	1.0	1.0

ARMADO DE LOSA SUPERIOR ZONA CENTRAL

CARACT. RASANTE

M est (S4)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816	Ae =	20.67
fck (t/m2) =	4082	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 13	0.00	1.00	2316.53	710.45	2174.48	1715.93	66.52	16.30	5900.00	0.0041	2.88	9.59	49.27	12.07	5900.00	0.0041	8.83	10.45	9.04	10.50	10.45	10.50
VANO 13	1.20	2.00	1801.53	683.29	2099.85	1631.58	51.73	12.67	5900.00	0.0041	2.77	7.72	46.85	11.48	5900.00	0.0041	8.52	10.00	9.04	10.50	10.00	10.50
VANO 13	2.40	3.00	1698.44	656.36	2027.14	1547.10	48.77	11.95	5900.00	0.0041	2.66	7.31	44.43	10.88	5900.00	0.0041	8.23	9.56	9.04	10.50	9.56	10.50
VANO 13	3.60	4.00	1605.64	629.66	1956.37	1462.50	46.11	11.30	5900.00	0.0041	2.56	6.93	42.00	10.29	5900.00	0.0041	7.94	9.12	9.04	10.50	9.12	10.50
VANO 13	4.80	5.00	1513.50	603.18	1887.51	1377.76	43.46	10.65	5900.00	0.0041	2.45	6.55	39.56	9.69	5900.00	0.0041	7.66	8.68	9.04	10.50	9.04	10.50
VANO 13	4.80	6.00	1513.50	603.18	1887.51	1377.76	43.46	10.65	5900.00	0.0041	2.45	6.55	39.56	9.69	5900.00	0.0041	7.66	8.68	9.04	10.50	9.04	10.50
VANO 13	6.00	7.00	1422.07	576.92	1820.59	1292.91	40.84	10.00	5900.00	0.0041	2.34	6.17	37.13	9.10	5900.00	0.0041	7.39	8.24	9.04	10.50	9.04	10.50
VANO 13	7.20	8.00	1331.41	550.89	1755.59	1207.93	38.23	9.37	5900.00	0.0041	2.24	5.80	34.69	8.50	5900.00	0.0041	7.13	7.81	9.04	10.50	9.04	10.50
VANO 13	8.40	9.00	1232.18	525.09	1692.52	1122.85	35.38	8.67	5900.00	0.0041	2.13	5.40	32.24	7.90	5900.00	0.0041	6.87	7.38	9.04	10.50	9.04	10.50
VANO 13	9.60	10.00	1130.68	499.51	1631.37	1037.65	32.47	7.95	5900.00	0.0041	2.03	4.99	29.80	7.30	5900.00	0.0041	6.62	6.96	9.04	10.50	9.04	10.50
VANO 13	9.60	11.00	1130.68	499.51	1631.37	1037.65	32.47	7.95	5900.00	0.0041	2.03	4.99	29.80	7.30	5900.00	0.0041	6.62	6.96	9.04	10.50	9.04	10.50
VANO 13	10.80	12.00	1030.10	474.16	1572.15	952.36	29.58	7.25	5900.00	0.0041	1.92	4.59	27.35	6.70	5900.00	0.0041	6.38	6.54	9.04	10.50	9.04	10.50
VANO 13	12.00	13.00	930.46	449.04	1514.85	866.97	26.72	6.55	5900.00	0.0041	1.82	4.18	24.90	6.10	5900.00	0.0041	6.15	6.12	9.04	10.50	9.04	10.50
VANO 13	13.20	14.00	831.83	424.14	1459.49	781.49	23.89	5.85	5900.00	0.0041	1.72	3.79	22.44	5.50	5900.00	0.0041	5.92	5.71	9.04	10.50	9.04	10.50
VANO 13	14.40	15.00	734.22	399.46	1406.04	695.94	21.08	5.17	5900.00	0.0041	1.62	3.39	19.98	4.90	5900.00	0.0041	5.71	5.30	9.04	10.50	9.04	10.50
VANO 13	14.40	16.00	717.28	399.46	1406.04	678.99	20.60	5.05	5900.00	0.0041	1.62	3.33	19.50	4.78	5900.00	0.0041	5.71	5.24	9.04	10.50	9.04	10.50
VANO 13	15.60	17.00	620.74	375.01	1354.53	593.36	17.82	4.37	5900.00	0.0041	1.52	2.94	17.04	4.17	5900.00	0.0041	5.50	4.84	9.04	10.50	9.04	10.50
VANO 13	16.80	18.00	525.30	350.79	1304.94	507.67	15.08	3.70	5900.00	0.0041	1.42	2.56	14.58	3.57	5900.00	0.0041	5.30	4.43	9.04	10.50	9.04	10.50
VANO 13	18.00	19.00	430.99	326.79	1257.27	421.92	12.38	3.03	5900.00	0.0041	1.33	2.18	12.12	2.97	5900.00	0.0041	5.10	4.04	9.04	10.50	9.04	10.50
VANO 13	19.20	20.00	489.77	177.07	1211.64	336.13	14.06	3.45	5900.00	0.0041	0.72	2.08	9.65	2.36	5900.00	0.0041	4.92	3.64	9.04	10.50	9.04	10.50
VANO 13	19.20	21.00	489.77	177.07	1211.64	336.13	14.06	3.45	5900.00	0.0041	0.72	2.08	9.65	2.36	5900.00	0.0041	4.92	3.64	9.04	10.50	9.04	10.50
VANO 13	20.40	22.00	567.43	166.70	1168.13	250.29	16.29	3.99	5900.00	0.0041	0.68	2.33	7.19	1.76	5900.00	0.0041	4.74	3.25	9.04	10.50	9.04	10.50
VANO 13	21.60	23.00	646.40	156.32	1126.77	164.43	18.56	4.55	5900.00	0.0041	0.63	2.59	4.72	1.16	5900.00	0.0041	4.57	2.87	9.04	10.50	9.04	10.50
VANO 13	22.80	24.00	726.69	145.95	1087.53	78.55	20.87	5.11	5900.00	0.0041	0.59	2.85	2.26	0.55	5900.00	0.0041	4.41	2.48	9.04	10.50	9.04	10.50
VANO 13	24.00	25.00	399.83	135.57	1050.43	7.36	11.48	2.81	5900.00	0.0041	0.55	1.68	0.21	0.05	5900.00	0.0041	4.26	2.16	9.04	10.50	9.04	10.50
VANO 13	24.00	26.00	399.83	135.57	1050.43	7.36	11.48	2.81	5900.00	0.0041	0.55	1.68	0.21	0.05	5900.00	0.0041	4.26	2.16	9.04	10.50	9.04	10.50
VANO 13	25.20	27.00	711.62	187.04	1053.00	93.23	20.43	5.01	5900.00	0.0041	0.76	2.68	2.68	0.66	5900.00	0.0041	4.27	2.47	9.04	10.50	9.04	10.50
VANO 13	26.40	28.00	631.31	164.70	1090.94	179.11	18.13	4.44	5900.00	0.0041	0.67	2.55	5.14	1.26	5900.00	0.0041	4.43	2.84	9.04	10.50	9.04	10.50
VANO 13	27.60	29.00	552.32	142.63	1132.14	264.97	15.86	3.89	5900.00	0.0041	0.58	2.23	7.61	1.86	5900.00	0.0041	4.60	3.23	9.04	10.50	9.04	10.50
VANO 13	28.80	30.00	474.65	120.83	1175.47	350.80	13.63	3.34	5900.00	0.0041	0.49	1.91	10.07	2.47	5900.00	0.0041	4.77	3.62	9.04	10.50	9.04	10.50
VANO 13	28.80	31.00	474.65	120.83	1175.47	350.80	13.63	3.34	5900.00	0.0041	0.49	1.91	10.07	2.47	5900.00	0.0041	4.77	3.62	9.04	10.50	9.04	10.50
VANO 13	30.00	32.00	441.60	111.38	1220.94	436.60	12.68	3.11	5900.00	0.0041	0.45	1.78	12.54	3.07	5900.00	0.0041	4.96	4.01	9.04	10.50	9.04	10.50
VANO 13	31.20	33.00	535.90	124.89	1268.43	522.35	15.39	3.77	5900.00	0.0041	0.51	2.14	15.00	3.67	5900.00	0.0041	5.15	4.41	9.04	10.50	9.04	10.50
VANO 13	32.40	34.00	631.32	143.44	1317.86	608.04	18.13	4.44	5900.00	0.0041	0.58	2.51	17.46	4.28	5900.00	0.0041	5.35	4.81	9.04	10.50	9.04	10.50
VANO 13	33.60	35.00	727.84	163.77	1369.20	693.67	20.90	5.12	5900.00	0.0041	0.66	2.89	19.92	4.88	5900.00	0.0041	5.56	5.22	9.04	10.50	9.04	10.50
VANO 13	33.60	36.00	727.84	163.77	1369.20	693.67	20.90	5.12	5900.00	0.0041	0.66	2.89	19.92	4.88	5900.00	0.0041	5.56	5.22	9.04	10.50	9.04	10.50
VANO 13	34.80	37.00	825.43	184.39	1422.03	779.22	23.70	5.81	5900.00	0.0041	0.75	3.28	22.38	5.48	5900.00	0.0041	5.77	5.63	9.04	10.50	9.04	10.50
VANO 13	36.00	38.00	924.05	205.23	1477.68	864.70	26.53	6.50	5900.00	0.0041	0.83	3.67	24.83	6.08	5900.00	0.0041	6.00	6.04	9.04	10.50	9.04	10.50
VANO 13	37.20	39.00	1023.67	226.30	1534.81	950.09	29.40	7.20	5900.00	0.0041	0.92	4.06	27.28	6.68	5900.00	0.0041	6.23	6.46	9.04	10.50	9.04	10.50
VANO 13	38.40	40.00	1124.25	247.59	1593.86	1035.38	32.28	7.91	5900.00	0.0041	1.01	4.46	29.73	7.28	5900.00	0.0041	6.47	6.88	9.04	10.50	9.04	10.50
VANO 13	38.40	41.00	1124.25	247.59	1593.86	1035.38	32.28	7.91	5900.00	0.0041	1.01	4.46	29.73	7.28	5900.00	0.0041	6.47	6.88	9.04	10.50	9.04	10.50
VANO 13	39.60	42.00	1225.73	269.50	1654.84	1120.57	35.20	8.62	5900.00	0.0041	1.09	4.86	32.18	7.88	5900.00	0.0041	6.72	7.30	9.04	10.50	9.04	10.50
VANO 13	40.80	43.00	1328.09	292.13	1717.75	1205.65	38.14	9.34	5900.00	0.0041	1.19	5.26	34.62	8.48	5900.00	0.0041	6.97	7.73	9.04	10.50	9.04	10.50
VANO 13	42.00	44.00	1431.26	314.99	1782.58	1290.62	41.10	10.07	5900.00	0.0041	1.28	5.67	37.06	9.08	5900.00	0.0041	7.24	8.16	9.04	10.50	9.04	10.50
VANO 13	43.20	45.00	1535.21	338.08	1849.34	1375.47	44.08	10.80	5900.00	0.0041	1.37	6.09	39.50	9.68	5900.00	0.0041	7.51	8.59	9.04	10.50	9.04	10.50
VANO 13	43.20	46.00	1535.21	338.08	1849.34	1375.47	44.08	10.80	5900.00	0.0041	1.37	6.09	39.50	9.68	5900.00	0.0041	7.51	8.59	9.04	10.50	9.04	10.50
VANO 13	44.40	47.00	1639.87	361.39	1918.03	1460.21	47.09	11.54	5900.00	0.0041	1.47	6.50	41.93	10.27	5900.00	0.0041	7.79	9.03	9.04	10.50	9.04	10.50
VANO 13	45.60	48.00	1745.20	384.93	1988.64	1544.81	50.11	12.28	5900.00	0.0041	1.56	6.92	44.36	10.87	5900.00	0.0041	8.07	9.47	9.04	10.50	9.47	10.50
VANO 13	46.80	49.00	1851.13	408.69	2061.18	1629.29	53.16	13.02	5900.00	0.0041	1.66	7.34	46.79	11.46	5900.00	0.0041	8.37	9.91	9.04	10.50	9.91	10.50
VANO 14	0.00	1.00	2316.53	710.45	2235.21	1721.92	66.52	16.30	5900.00	0.0041	2.88	9.59	49.45	12.11	5900.00	0.0041	9.07	10.59	9.04	10.50	10.59	10.50
VANO 14	1.20	2.00	1801.53	683.29	2160.26	1637.58	51.73	12.67	5900.00	0.0041	2.77	7.72	47.02	11.52	5900.00	0.0041	8.77	10.14	9.04	10.50	10.14	10.50
VANO 14	2.40	3.00	1698.44	656.36	2087.24	1553.11	48.77	11.95	5900.00	0.0041	2.66	7.31	44.60	10.93	5900.00	0.0041	8.47	9.70	9.04	10.50	9.70	10.50
VANO 14	3.60	4.00	1605.64	629.66	2016.14	1468.51	46.11	11.30	5900.00	0.0041	2.56	6.93	42.17	10.33	5900.00	0.0041	8.18	9.26	9.04	10.50	9.26	10.50
VANO 14	4.80	5.00	1513.50	603.18	1946.97	1383.78	43.46	10.65	5900.00	0.0041	2.45	6.55	39.74	9.74	5900.00	0.0041	7.90	8.82	9.04	10.50	9.04	10.50
VANO 14	4.80	6.00	1513.50	603.18	1946.97	1383.78	43.46	10.65	5900.00	0.0041	2.45	6.55	39.74	9.74	5900.00	0.0041	7.90	8.82	9.04	10.50	9.04	10.50
VANO 14	6.00	7.00	1422.07	576.92	1879.73	1298.93	40.84	10.00	5900.00	0.0041	2.34	6.17	37.30	9.14	5900.00	0.0041	7.63	8.38	9.04	10.50	9.04	10.50
VANO 14	7.20	8.00	1331.41	550.89	1814.42	1213.96	38.23	9.37	5900.00	0.0041	2.24	5.80	34.86	8.54	5900.00	0.0041	7.37	7.95	9.04	10.50	9.04	10.50
VANO 14	8.40	9.00	1232.18	525.09	1751.34	1128.88	35.38	8.67	5900.00	0.0041	2.13	5.40	32.42	7.94	5900.00	0.0041	7.11	7.52	9.04	10.50	9.04	10.50
VANO 14	9.60	10.00	1130.68	499.51	1689.38	1043.69	32.47	7.95	5900.00	0.0041	2.03	4.99	29.97	7.34	5900.00	0.0041	6.86	7.10	9.04	10.50	9.04	10.50
VANO 14	9.60	11.00	1130.68	499.51	1689.38	1043.69	32.47	7.95	5900.00	0.0041	2.03	4.99	29.97	7.34	5900.00	0.0041	6.86	7.10	9.04	10.50	9.04	10.50
VANO 14	10.80	12.00	1030.10	474.16	1630.35	958.40	29.58	7.25	5900.00	0.0041	1.92	4.59	27.52	6.74	5900.00	0.0041	6.62	6.68	9.04	10.50	9.04	10.50
VANO 14	12.00	13.00	930.46	449.04	1572.46	873.01	26.72	6.55	5900.00	0.0041	1.82	4.18	25.07	6.14	5900.00	0.0041	6.38	6.26	9.04	10.50	9.04	10.50
VANO 14	13.20	14.00	831.83	424.14	1516.78	787.54	23.89	5.85	5900.00	0.0041	1.72	3.79	22.61	5.54	5900.00	0.0041	6.16	5.85	9.04	10.50	9.04	10.50
VANO 14	14.40	15.00	734.22	399.46	1463.34	701.99	21.08	5.17	5900.00	0.0041	1.62	3.39	20.16	4.94	5900.00	0.0041	5.94	5.44	9.04	10.50	9.04	10.50
VANO 14	14.40	16.00	717.28	399.46	1463.34	685.05	20.60	5.05	5900.00	0.0041	1.62	3.33	19.67	4.82	5900.00	0.0041	5.94	5.38	9.04	10.50	9.04	10.50
VANO 14	15.60	17.00	620.74	375.01	1411.23	599.42	17.82	4.37	5900.00	0.0041	1.52	2.94	17.21	4.22	5900.00	0.0041	5.73	4.97	9.04	10.50	9.04	10.50
VANO 14	16.80	18.00	525.30	350.79	1361.34	513.73	15.08	3.70	5900.00	0.0041	1.42	2.56	14.75	3.61	5900.00	0.0041	5.53	4.57	9.04	10.50	9.04	10.50
VANO 14	18.00	19.00	430.99	326.79	1313.18	427.98	12.38	3.03	5900.00	0.0041	1.33	2.18	12.29	3.01	5900.00	0.0041	5.33	4.17	9.04	10.50	9.04	10.50
VANO 14	19.20	20.00	489.77	177.07	1267.35	342.19	14.06	3.45	5900.00	0.0041	0.72	2.08	9.83	2.41	5900.00	0.0041	5.14	3.78	9.04	10.50	9.04	10.50
VANO 14	19.20	21.00	489.77	177.07	1267.35	342.19	14.06	3.45	5900.00	0.0041	0.72	2.08	9.83	2.41	5900.00	0.0041	5.14	3.78	9.04	10.50	9.04	10.50
VANO 14	20.40	22.00	567.43	166.70	1223.18	256.36	16.29	3.99	5900.00	0.0041	0.68	2.33	7.36	1.80	5900.00	0.0041	4.97	3.39	9.04	10.50	9.04	10.50
VANO 14	21.60	23.00	646.40	156.32	1182.10	170.50	18.56	4.55	5900.00	0.0041	0.63	2.59	4.90	1.20	5900.00	0.0041	4.80	3.00	9.04	10.50	9.04	10.50
VANO 14	22.80	24.00	726.69	145.95	1142.18	84.63	20.87	5.11	5900.00	0.0041	0.59	2.85	2.43	0.60	5900.00	0.0041	4.64	2.62	9.04	10.50	9.04	10.50
VANO 14	24.00	25.00	399.83	135.57	1105.19	2.42	11.48	2.81	5900.00	0.0041	0.55	1.68	0.07	0.02	5900.00	0.0041	4.49	2.25	9.04	10.50	9.04	10.50
VANO 14	24.00	26.00	399.83	135.57	1105.19	2.42	11.48	2.81	5900.00	0.0041	0.55	1.68	0.07	0.02	5900.00	0.0041	4.49	2.25	9.04	10.50	9.04	10.50
VANO 14	25.20	27.00	711.62	187.04	1077.15	88.01	20.43	5.01	5900.00	0.0041	0.76	2.88	2.53	0.62	5900.00	0.0041	4.37	2.50	9.04	10.50	9.04	10.50
VANO 14	26.40	28.00	631.31	164.70	1069.15	173.03	18.13	4.44	5900.00	0.0041	0.67	2.55	4.97	1.22	5900.00	0.0041	4.34	2.78	9.04	10.50	9.04	10.50
VANO 14	27.60	29.00	552.32	142.63	1100.17	258.89	15.86	3.89	5900.00	0.0041	0.58	2.23	7.43	1.82	5900.00	0.0041	4.47	3.14	9.04	10.50	9.04	10.50
VANO 14	28.80	30.00	474.65	120.83	1139.19	344.72	13.63	3.34	5900.00	0.0041	0.49	1.91	9.90	2.43	5900.00	0.0041	4.62	3.52	9.04	10.50	9.04	10.50
VANO 14	28.80	31.00	474.65	120.83	1139.19	344.72	13.63	3.34	5900.00	0.0041	0.49	1.91	9.90	2.43	5900.00	0.0041	4.62	3.52	9.04	10.50	9.04	10.50
VANO 14	30.00	32.00	441.60	111.38	1181.02	430.51	12.68	3.11	5900.00	0.0041	0.45	1.78	12.36	3.03	5900.00	0.0041	4.80	3.91	9.04	10.50	9.04	10.50
VANO 14	31.20	33.00	535.90	124.89	1225.04	516.26	15.39	3.77	5900.00	0.0041	0.51	2.14	14.82	3.63	5900.00	0.0041	4.98	4.30	9.04	10.50	9.04	10.50
VANO 14	32.40	34.00	631.32	143.44	1271.91	601.95	18.13	4.44	5900.00	0.0041	0.58	2.51	17.29	4.23	5900.00	0.0041	5.16	4.70	9.04	10.50	9.04	10.50
VANO 14	33.60	35.00	727.84	163.77	1320.70	687.58	20.90	5.12	5900.00	0.0041	0.66	2.89	19.74	4.84	5900.00	0.0041	5.36	5.10	9.04	10.50	9.04	10.50
VANO 14	33.60	36.00	727.84	163.77	1320.70	687.58	20.90	5.12	5900.00	0.0041	0.66	2.89	19.74	4.84	5900.00	0.0041	5.36	5.10	9.04	10.50	9.04	10.50
VANO 14	34.80	37.00	825.43	184.39	1371.24	773.13	23.70	5.81	5900.00	0.0041	0.75	3.28	22.20	5.44	5900.00	0.0041	5.57	5.50	9.04	10.50	9.04	10.50
VANO 14	36.00	38.00	924.05	205.23	1426.55	858.61	26.53	6.50	5900.00	0.0041	0.83	3.67	24.66	6.04	5900.00	0.0041	5.79	5.92	9.04	10.50	9.04	10.50
VANO 14	37.20	39.00	1023.67	226.30	1483.19	944.00	29.40	7.20	5900.00	0.0041	0.92	4.06	27.11	6.64	5900.00	0.0041	6.02	6.33	9.04	10.50	9.04	10.50
VANO 14	38.40	40.00	1124.25	247.59	1542.16	1029.29	32.28	7.91	5900.00	0.0041	1.01	4.46	29.56	7.24	5900.00	0.0041	6.26	6.75	9.04	10.50	9.04	10.50
VANO 14	38.40	41.00	1124.25	247.59	1542.16	1029.29	32.28	7.91	5900.00	0.0041	1.01	4.46	29.56	7.24	5900.00	0.0041	6.26	6.75	9.04	10.50	9.04	10.50
VANO 14	39.60	42.00	1225.73	269.50	1602.15	1114.48	35.20	8.62	5900.00	0.0041	1.09	4.86	32.00	7.84	5900.00	0.0041	6.51	7.17	9.04	10.50	9.04	10.50
VANO 14	40.80	43.00	1328.09	292.13	1665.18	1199.57	38.14	9.34	5900.00	0.0041	1.19	5.26	34.45	8.44	5900.00	0.0041	6.76	7.60	9.04	10.50	9.04	10.50
VANO 14	42.00	44.00	1431.26	314.99	1730.03	1284.54	41.10	10.07	5900.00	0.0041	1.28	5.67	36.89	9.04	5900.00	0.0041	7.02	8.03	9.04	10.50	9.04	10.50
VANO 14	43.20	45.00	1535.21	338.08	1796.11	1369.40	44.08	10.80	5900.00	0.0041	1.37	6.09	39.32	9.63	5900.00	0.0041	7.29	8.48	9.04	10.50	9.04	10.50
VANO 14	43.20	46.00	1535.21	338.08	1796.11	1369.40	44.08	10.80	5900.00	0.0041	1.37	6.09	39.32	9.63	5900.00	0.0041	7.29	8.48	9.04	10.50	9.04	10.50
VANO 14	44.40	47.00	1639.87	361.39	1865.41	1454.13	47.09	11.54	5900.00	0.0041	1.47	6.50	41.76	10.23	5900.00	0.0041	7.57	8.90	9.04	10.50	9.04	10.50
VANO 14	45.60	48.00	1745.20	384.93	1935.85	1538.74	50.11	12.28	5900.00	0.0041	1.56	6.92	44.19	10.83	5900.00	0.0041	7.86	9.34	9.04	10.50	9.34	10.50
VANO 14	46.80	49.00	1851.13	408.69	2008.21	1623.22	53.16	13.02	5900.00	0.0041	1.66	7.34	46.61	11.42	5900.00	0.0041	8.15	9.79	9.04	10.50	9.79	10.50

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC COV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR ZONA CENTRAL

CARACT. RASANTE

M est (S4)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816	Ae =	20.67
fck (t/m2) =	4082	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Prel) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 15	0.00	1.00	2316.53	710.45	2323.20	1715.51	66.52	16.30	5900.00	0.0041	2.88	9.59	49.26	12.07	5900.00	0.0041	9.43	10.75	9.04	10.50	10.75	10.75
VANO 15	1.20	2.00	1801.53	683.29	2247.92	1631.17	51.73	12.67	5900.00	0.0041	2.77	7.72	46.84	11.48	5900.00	0.0041	9.12	10.30	9.04	10.50	10.30	10.50
VANO 15	2.40	3.00	1698.44	656.36	2174.57	1546.70	48.77	11.95	5900.00	0.0041	2.66	7.31	44.41	10.88	5900.00	0.0041	8.83	9.85	9.04	10.50	9.85	10.50
VANO 15	3.60	4.00	1605.64	629.66	2103.15	1462.10	46.11	11.30	5900.00	0.0041	2.56	6.93	41.98	10.29	5900.00	0.0041	8.54	9.41	9.04	10.50	9.41	10.50
VANO 15	4.80	5.00	1513.50	603.18	2033.65	1377.38	43.46	10.65	5900.00	0.0041	2.45	6.55	39.55	9.69	5900.00	0.0041	8.26	8.97	9.04	10.50	9.04	10.50
VANO 15	4.80	6.00	1513.50	603.18	2033.65	1377.38	43.46	10.65	5900.00	0.0041	2.45	6.55	39.55	9.69	5900.00	0.0041	8.26	8.97	9.04	10.50	9.04	10.50
VANO 15	6.00	7.00	1422.07	576.92	1966.08	1292.53	40.84	10.00	5900.00	0.0041	2.34	6.17	37.12	9.09	5900.00	0.0041	7.98	8.54	9.04	10.50	8.04	10.50
VANO 15	7.20	8.00	1331.41	550.89	1900.44	1207.57	38.23	9.37	5900.00	0.0041	2.24	5.80	34.68	8.50	5900.00	0.0041	7.71	8.10	9.04	10.50	9.04	10.50
VANO 15	8.40	9.00	1232.18	525.09	1836.73	1122.49	35.38	8.67	5900.00	0.0041	2.13	5.40	32.23	7.90	5900.00	0.0041	7.46	7.68	9.04	10.50	9.04	10.50
VANO 15	9.60	10.00	1130.68	499.51	1774.34	1037.30	32.47	7.95	5900.00	0.0041	2.03	4.99	29.79	7.30	5900.00	0.0041	7.20	7.25	9.04	10.50	9.04	10.50
VANO 15	9.60	11.00	1130.68	499.51	1774.94	1037.30	32.47	7.95	5900.00	0.0041	2.03	4.99	29.79	7.30	5900.00	0.0041	7.20	7.25	9.04	10.50	9.04	10.50
VANO 15	10.80	12.00	1030.10	474.16	1715.38	952.02	29.58	7.25	5900.00	0.0041	1.92	4.59	27.34	6.70	5900.00	0.0041	6.96	6.83	9.04	10.50	9.04	10.50
VANO 15	12.00	13.00	930.46	449.04	1657.14	866.64	26.72	6.55	5900.00	0.0041	1.82	4.18	24.89	6.10	5900.00	0.0041	6.73	6.41	9.04	10.50	9.04	10.50
VANO 15	13.20	14.00	831.83	424.14	1601.13	781.17	23.89	5.85	5900.00	0.0041	1.72	3.79	22.43	5.50	5900.00	0.0041	6.50	6.00	9.04	10.50	9.04	10.50
VANO 15	14.40	15.00	734.22	399.46	1547.35	695.63	21.08	5.17	5900.00	0.0041	1.62	3.39	19.98	4.89	5900.00	0.0041	6.28	5.59	9.04	10.50	9.04	10.50
VANO 15	14.40	16.00	717.28	399.46	1547.35	678.68	20.60	5.05	5900.00	0.0041	1.62	3.33	19.49	4.77	5900.00	0.0041	6.28	5.53	9.04	10.50	9.04	10.50
VANO 15	15.60	17.00	620.74	375.01	1494.90	593.06	17.82	4.37	5900.00	0.0041	1.52	2.94	17.03	4.17	5900.00	0.0041	6.07	5.12	9.04	10.50	9.04	10.50
VANO 15	16.80	18.00	525.30	350.79	1444.37	507.38	15.08	3.70	5900.00	0.0041	1.42	2.56	14.57	3.57	5900.00	0.0041	5.86	4.72	9.04	10.50	9.04	10.50
VANO 15	18.00	19.00	430.99	326.79	1396.17	421.64	12.38	3.03	5900.00	0.0041	1.33	2.18	12.11	2.97	5900.00	0.0041	5.67	4.32	9.04	10.50	9.04	10.50
VANO 15	19.20	20.00	489.77	177.07	1350.10	335.85	14.06	3.45	5900.00	0.0041	0.72	2.08	9.64	2.36	5900.00	0.0041	5.48	3.92	9.04	10.50	9.04	10.50
VANO 15	19.20	21.00	489.77	177.07	1350.10	335.85	14.06	3.45	5900.00	0.0041	0.72	2.08	9.64	2.36	5900.00	0.0041	5.48	3.92	9.04	10.50	9.04	10.50
VANO 15	20.40	22.00	567.43	166.70	1305.97	250.03	16.29	3.99	5900.00	0.0041	0.68	2.33	7.18	1.76	5900.00	0.0041	5.30	3.53	9.04	10.50	9.04	10.50
VANO 15	21.60	23.00	646.40	156.32	1263.17	164.17	18.56	4.55	5900.00	0.0041	0.63	2.59	4.71	1.16	5900.00	0.0041	5.13	3.14	9.04	10.50	9.04	10.50
VANO 15	22.80	24.00	726.69	145.95	1224.10	78.30	20.87	5.11	5900.00	0.0041	0.59	2.85	2.25	0.55	5900.00	0.0041	4.97	2.76	9.04	10.50	9.04	10.50
VANO 15	24.00	25.00	399.83	135.57	1186.16	7.60	11.48	2.81	5900.00	0.0041	0.55	1.68	0.22	0.05	5900.00	0.0041	4.82	2.43	9.04	10.50	9.04	10.50
VANO 15	24.00	26.00	399.83	135.57	1186.16	7.60	11.48	2.81	5900.00	0.0041	0.55	1.68	0.22	0.05	5900.00	0.0041	4.82	2.43	9.04	10.50	9.04	10.50
VANO 15	25.20	27.00	711.62	187.04	1150.76	94.38	20.43	5.01	5900.00	0.0041	0.76	2.88	2.71	0.66	5900.00	0.0041	4.67	2.67	9.04	10.50	9.04	10.50
VANO 15	26.40	28.00	631.31	164.70	1128.16	181.15	18.13	4.44	5900.00	0.0041	0.67	2.55	5.20	1.27	5900.00	0.0041	4.58	2.93	9.04	10.50	9.04	10.50
VANO 15	27.60	29.00	552.32	142.63	1111.63	267.91	15.86	3.89	5900.00	0.0041	0.58	2.23	7.69	1.88	5900.00	0.0041	4.51	3.20	9.04	10.50	9.04	10.50
VANO 15	28.80	30.00	474.65	120.83	1108.14	351.01	13.63	3.34	5900.00	0.0041	0.49	1.91	10.08	2.47	5900.00	0.0041	4.50	3.49	9.04	10.50	9.04	10.50
VANO 15	28.80	31.00	474.65	120.83	1108.14	351.01	13.63	3.34	5900.00	0.0041	0.49	1.91	10.08	2.47	5900.00	0.0041	4.50	3.49	9.04	10.50	9.04	10.50
VANO 15	30.00	32.00	441.60	111.38	1143.16	436.80	12.68	3.11	5900.00	0.0041	0.45	1.78	12.54	3.07	5900.00	0.0041	4.64	3.86	9.04	10.50	9.04	10.50
VANO 15	31.20	33.00	535.90	124.89	1180.92	522.54	15.39	3.77	5900.00	0.0041	0.51	2.14	15.00	3.68	5900.00	0.0041	4.79	4.23	9.04	10.50	9.04	10.50
VANO 15	32.40	34.00	631.32	143.44	1224.70	608.23	18.13	4.44	5900.00	0.0041	0.58	2.51	17.47	4.28	5900.00	0.0041	4.97	4.63	9.04	10.50	9.04	10.50
VANO 15	33.60	35.00	727.84	163.77	1271.98	693.85	20.90	5.12	5900.00	0.0041	0.66	2.89	19.92	4.88	5900.00	0.0041	5.16	5.02	9.04	10.50	9.04	10.50
VANO 15	33.60	36.00	727.84	163.77	1271.98	693.85	20.90	5.12	5900.00	0.0041	0.66	2.89	19.92	4.88	5900.00	0.0041	5.16	5.02	9.04	10.50	9.04	10.50
VANO 15	34.80	37.00	825.43	184.39	1321.25	779.40	23.70	5.81	5900.00	0.0041	0.75	3.28	22.38	5.48	5900.00	0.0041	5.36	5.42	9.04	10.50	9.04	10.50
VANO 15	36.00	38.00	924.05	205.23	1372.43	864.87	26.53	6.50	5900.00	0.0041	0.83	3.67	24.84	6.08	5900.00	0.0041	5.57	5.83	9.04	10.50	9.04	10.50
VANO 15	37.20	39.00	1023.67	226.30	1425.55	950.25	29.40	7.20	5900.00	0.0041	0.92	4.06	27.29	6.69	5900.00	0.0041	5.79	6.24	9.04	10.50	9.04	10.50
VANO 15	38.40	40.00	1124.25	247.59	1480.59	1035.54	32.28	7.91	5900.00	0.0041	1.01	4.46	29.74	7.29	5900.00	0.0041	6.01	6.65	9.04	10.50	9.04	10.50
VANO 15	38.40	41.00	1124.25	247.59	1480.59	1035.54	32.28	7.91	5900.00	0.0041	1.01	4.46	29.74	7.29	5900.00	0.0041	6.01	6.65	9.04	10.50	9.04	10.50
VANO 15	39.60	42.00	1225.73	269.50	1537.42	1120.73	35.20	8.62	5900.00	0.0041	1.09	4.86	32.18	7.88	5900.00	0.0041	6.24	7.06	9.04	10.50	9.04	10.50
VANO 15	40.80	43.00	1328.09	292.13	1597.11	1205.81	38.14	9.34	5900.00	0.0041	1.19	5.26	34.63	8.48	5900.00	0.0041	6.48	7.48	9.04	10.50	9.04	10.50
VANO 15	42.00	44.00	1431.26	314.99	1658.12	1290.78	41.10	10.07	5900.00	0.0041	1.28	5.67	37.07	9.08	5900.00	0.0041	6.73	7.91	9.04	10.50	9.04	10.50
VANO 15	43.20	45.00	1535.21	338.08	1722.07	1375.63	44.08	10.80	5900.00	0.0041	1.37	6.09	39.50	9.68	5900.00	0.0041	6.99	8.33	9.04	10.50	9.04	10.50
VANO 15	43.20	46.00	1535.21	338.08	1722.07	1375.63	44.08	10.80	5900.00	0.0041	1.37	6.09	39.50	9.68	5900.00	0.0041	6.99	8.33	9.04	10.50	9.04	10.50
VANO 15	44.40	47.00	1639.87	361.39	1787.33	1460.36	47.09	11.54	5900.00	0.0041	1.47	6.50	41.93	10.27	5900.00	0.0041	7.26	8.76	9.04	10.50	9.04	10.50
VANO 15	45.60	48.00	1745.20	384.93	1854.53	1544.96	50.11	12.28	5900.00	0.0041	1.56	6.92	44.36	10.87	5900.00	0.0041	7.53	9.20	9.04	10.50	9.20	10.50
VANO 15	46.80	49.00	1851.13	408.69	1923.65	1629.44	53.16	13.02	5900.00	0.0041	1.66	7.34	46.79	11.46	5900.00	0.0041	7.81	9.64	9.04	10.50	9.64	10.50
VANO 15	47.94	50.00	1906.13	432.68	1994.13	1713.78	57.04	13.66	5900.00	0.0041	1.76	8.20	49.21	12.06	5900.00	0.0041	8.10	10.08	9.04	10.50	10.08	10.50
VANO 16	0.00	1.00	2316.53	710.45	2288.21	1719.36	66.52	16.30	5900.00	0.0041	2.88	9.59	49.37	12.10	5900.00	0.0041	9.29	10.69	9.04	10.50	10.69	10.69
VANO 16	1.20	2.00	1801.53	683.29	2213.51	1635.02	51.73	12.67	5900.00	0.0041	2.77	7.72	46.95	11.50	5900.00	0.0041	8.99	10.24	9.04	10.50	10.24	10.50
VANO 16	2.40	3.00	1698.44	656.36	2140.63	1550.55	48.77	11.95	5900.00	0.0041	2.66	7.31	44.52	10.91	5900.00	0.0041	8.69	9.80	9.04	10.50	9.80	10.50
VANO 16	3.60	4.00	1605.64	629.66	2069.65	1465.96	46.11	11.30	5900.00	0.0041	2.56	6.93	42.10	10.31	5900.00	0.0041	8.40	9.36	9.04	10.50	9.36	10.50
VANO 16	4.80	5.00	1513.50	603.18	2000.63	1381.23	43.46	10.65	5900.00	0.0041	2.45	6.55	39.66	9.72	5900.00	0.0041	8.12	8.92	9.04	10.50	9.04	10.50
VANO 16	4.80	6.00	1513.50	603.18	2000.63	1381.23	43.46	10.65	5900.00	0.0041	2.45	6.55	39.66	9.72	5900.00	0.0041	8.12	8.92	9.04	10.50	9.04	10.50
VANO 16	6.00	7.00	1422.07	576.92	1933.43	1296.38	40.84	10.00	5900.00	0.0041	2.34	6.17	37.23	9.12	5900.00	0.0041	7.85	8.48	9.04	10.50	9.04	10.50
VANO 16	7.20	8.00	1331.41	550.89	1868.23	1211.42	38.23	9.37	5900.00	0.0041	2.24	5.80	34.79	8.52	5900.00	0.0041	7.58	8.05	9.04	10.50	9.04	10.50
VANO 16	8.40	9.00	1232.18	525.09	1804.91	1126.34	35.38	8.67	5900.00	0.0041	2.13	5.40	32.34	7.92	5900.00	0.0041	7.33	7.63	9.04	10.50	9.04	10.50
VANO 16	9.60	10.00	1130.68	499.51	1743.51	1041.16	32.47	7.95	5900.00	0.0041	2.03	4.99	29.90	7.32	5900.00	0.0041	7.08	7.20	9.04	10.50	9.04	10.50
VANO 16	9.60	11.00	1130.68	499.51	1743.51	1041.16	32.47	7.95	5900.00	0.0041	2.03	4.99	29.90	7.32	5900.00	0.0041	7.08	7.20	9.04	10.50	9.04	10.50
VANO 16	10.80	12.00	1030.10	474.16	1684.02	955.88	29.58	7.25	5900.00	0.0041	1.92	4.59	27.45	6.72	5900.00	0.0041	6.84	6.78	9.04	10.50	9.04	10.50
VANO 16	12.00	13.00	930.46	449.04	1626.41	870.50	26.72	6.55	5900.00	0.0041	1.82	4.18	25.00	6.12	5900.00	0.0041	6.60	6.36	9.04	10.50	9.04	10.50
VANO 16	13.20	14.00	831.83	424.14	1570.73	785.04	23.89	5.85	5900.00	0.0041	1.72	3.79	22.54	5.52	5900.00	0.0041	6.38	5.95	9.04	10.50	9.04	10.50
VANO 16	14.40	15.00	734.22	399.46	1517.01	699.49	21.08	5.17	5900.00	0.0041	1.62	3.39	20.09	4.92	5900.00	0.0041	6.16	5.54	9.04	10.50	9.04	10.50
VANO 16	14.40	16.00	717.28	399.46	1517.01	682.55	20.60	5.05	5900.00	0.0041	1.62	3.33	19.60	4.80	5900.00	0.0041	6.16	5.48	9.04	10.50	9.04	10.50
VANO 16	15.60	17.00	620.74	375.01	1465.23	596.93	17.82	4.37	5900.00	0.0041	1.52	2.94	17.14	4.20	5900.00	0.0041	5.95	5.07	9.04	10.50	9.04	10.50
VANO 16	16.80	18.00	525.30	350.79	1415.23	511.25	15.08	3.70	5900.00	0.0041	1.42	2.56	14.68	3.60	5900.00	0.0041	5.74	4.67	9.04	10.50	9.04	10.50
VANO 16	18.00	19.00	430.99	326.79	1367.27	425.51	12.38	3.03	5900.00	0.0041	1.33	2.18	12.22	2.99	5900.00	0.0041	5.55	4.27	9.04	10.50	9.04	10.50
VANO 16	19.20	20.00	489.77	177.07	1321.23	339.73	14.06	3.45	5900.00	0.0041	0.72	2.08	9.76	2.39	5900.00	0.0041	5.36	3.88	9.04	10.50	9.04	10.50
VANO 16	19.20	21.00	489.77	177.07	1321.23	339.73	14.06	3.45	5900.00	0.0041	0.72	2.08	9.76	2.39	5900.00	0.0041	5.36	3.88	9.04	10.50	9.04	10.50
VANO 16	20.40	22.00	567.43	166.70	1277.4	253.91	16.29	3.99	5900.00	0.0041	0.68	2.33	7.29	1.79	5900.00	0.0041	5.19	3.49	9.04	10.50	9.04	10.50
VANO 16	21.60	23.00	646.40	156.32	1235.66	168.06	18.56	4.55	5900.00	0.0041	0.63	2.59	4.83	1.18	5900.00	0.0041	5.02	3.10	9.04	10.50	9.04	10.50
VANO 16	22.80	24.00	726.69	145.95	1196.02	82.19	20.87	5.11	5900.00	0.0041	0.59	2.85	2.36	0.58	5900.00	0.0041	4.85	2.72	9.04	10.50	9.04	10.50
VANO 16	24.00	25.00	399.83	135.57	1158.5	4.12	11.48	2.81	5900.00	0.0041	0.55	1.68	0.12	0.03	5900.00	0.0041	4.70	2.37	9.04	10.50	9.04	10.50
VANO 16	24.00	26.00	399.83	135.57	1158.5	4.12	11.48	2.81	5900.00	0.0041	0.55	1.68	0.12	0.03	5900.00	0.0041	4.70	2.37	9.04	10.50	9.04	10.50
VANO 16	25.20	27.00	711.62	187.04	1127.24	90.46	20.43	5.01	5900.00	0.0041	0.76	2.88	2.60	0.64	5900.00	0.0041	4.58	2.61	9.04	10.50	9.04	10.50
VANO 16	26.40	28.00	631.31	164.70	1110.71	177.22	18.13	4.44	5900.00	0.0041	0.67	2.55	5.09	1.25	5900.00	0.0041	4.51	2.88	9.04	10.50	9.04	10.50
VANO 16	27.60	29.00	552.32	142.63	1112.91	261.29	15.86	3.89	5900.00	0.0041	0.58	2.23	7.50	1.84	5900.00	0.0041	4.52	3.18	9.04	10.50	9.04	10.50
VANO 16	28.80	30.00	474.65	120.83	1149.42	347.11	13.63	3.34	5900.00	0.0041	0.49	1.91	9.97	2.44	5900.00	0.0041	4.67	3.55	9.04	10.50	9.04	10.50
VANO 16	28.80	31.00	474.65	120.83	1149.42	347.11	13.63	3.34	5900.00	0.0041	0.49	1.91	9.97	2.44	5900.00	0.0041	4.67	3.55	9.04	10.50	9.04	10.50
VANO 16	30.00	32.00	441.60	111.38	1191.09	432.69	12.68	3.11	5900.00	0.0041	0.45	1.78	12.43	3.05	5900.00	0.0041	4.83	3.94	9.04	10.50	9.04	10.50
VANO 16	31.20	33.00	535.90	124.89	1234.69	518.63	15.39	3.77	5900.00	0.0041	0.51	2.14	14.89	3.65	5900.00	0.0041	5.01	4.33	9.04	10.50	9.04	10.50
VANO 16	32.40	34.00	631.32	143.44	1280.24	604.32	18.13	4.44	5900.00	0.0041	0.58	2.51	17.35	4.25	5900.00	0.0041	5.20	4.72	9.04	10.50	9.04	10.50
VANO 16	33.60	35.00	727.84	163.77	1327.71	689.94	20.90	5.12	5900.00	0.0041	0.66	2.89	19.81	4.85	5900.00	0.0041	5.39	5.12	9.04	10.50	9.04	10.50
VANO 16	33.60	36.00	727.84	163.77	1327.71	689.94	20.90	5.12	5900.00	0.0041	0.66	2.89	19.81	4.85	5900.00	0.0041	5.39	5.12	9.04	10.50	9.04	10.50
VANO 16	34.80	37.00	825.43	184.39	1377.43	775.48	23.70	5.81	5900.00	0.0041	0.75	3.28	22.27	5.46	5900.00	0.0041	5.59	5.52	9.04	10.50	9.04	10.50
VANO 16	36.00	38.00	924.05	205.23	1429.32	860.95	26.53	6.50	5900.00	0.0041	0.83	3.67	24.72	6.08	5900.00	0.0041	5.80	5.93	9.04	10.50	9.04	10.50
VANO 16	37.20	39.00	1023.67	226.30	1483.12	946.33	29.40	7.20	5900.00	0.0041	0.92	4.06	27.17	6.66	5900.00	0.0041	6.02	6.34	9.04	10.50	9.04	10.50
VANO 16	38.40	40.00	1124.25	247.59	1538.83	1031.62	32.28	7.91	5900.00	0.0041	1.01	4.46	29.62	7.26	5900.00	0.0041	6.25	6.75	9.04	10.50	9.04	10.50
VANO 16	38.40	41.00	1124.25	247.59	1538.83	1031.62	32.28	7.91	5900.00	0.0041	1.01	4.46	29.62	7.26	5900.00	0.0041	6.25	6.75	9.04	10.50	9.04	10.50
VANO 16	39.60	42.00	1225.73	269.50	1596.46	1116.80	35.20	8.62	5900.00	0.0041	1.09	4.86	32.07	7.86	5900.00	0.0041	6.48	7.17	9.04	10.50	9.04	10.50
VANO 16	40.80	43.00	1328.09	292.13	1656.00	1201.88	38.14	9.34	5900.00	0.0041	1.19	5.26	34.51	8.46	5900.00	0.0041	6.72	7.59	9.04	10.50	9.04	10.50
VANO 16	42.00	44.00	1431.26	314.99	1717.46	1286.85	41.10	10.07	5900.00	0.0041	1.28	5.67	36.95	9.05	5900.00	0.0041	6.97	8.01	9.04	10.50	9.04	10.50
VANO 16	43.20	45.00	1535.21	338.08	1783.23	1371.70	44.08	10.80	5900.00	0.0041	1.37	6.09	39.39	9.65	5900.00	0.0041	7.24	8.44	9.04	10.50	9.04	10.50
VANO 16	43.20	46.00	1535.21	338.08	1783.23	1371.70	44.08	10.80	5900.00	0.0041	1.37	6.09	39.39	9.65	5900.00	0.0041	7.24	8.44	9.04	10.50	9.04	10.50
VANO 16	44.40	47.00	1639.87	361.39	1851.61	1456.43	47.09	11.54	5900.00	0.0041	1.47	6.50	41.82	10.25	5900.00	0.0041	7.52	8.88	9.04	10.50	9.04	10.50
VANO 16	45.60	48.00	1745.20	384.93	1921.91	1541.03	50.11	12.28	5900.00	0.0041	1.56	6.92	44.25	10.84	5900.00	0.0041	7.80	9.32	9.04	10.50	9.04	10.50
VANO 16	46.80	49.00	1851.13	408.69	1994.11	1625.51	53.16	13.02	5900.00	0.0041	1.66	7.34	46.68	11.44	5900.00	0.0041	8.09	9.77	9.04	10.50	9.77	10.50

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior	
Nº TENDON	6
Nº CORDON	25
ROTURA TE	28.5
% TESADO	0.8
% PERDIDA	0.16
COEF. SEG	1

Lanzamient	Lanz. Adic
14	Variables
19	19
28.5	28.5
0.75	75%
0.2	20%
1	1.0

ARMADO DE LOSA SUPERIOR ZONA CENTRAL

CARACT. RASANTE

M est (S4)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
coig tetha =	1
K rasant =	0.029
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816	Ae =	20.67
fck (t/m2) =	4082	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
coig tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

	X	Nudo	Hipótesis max cortante		Hipótesis max torsor		ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC					ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC					ARMADO DEFINITIV	
			Vd max	Td con	Td max	Vd con	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	FLEXIÓN TRANS As int
VANO 17	0.00	1.00	2316.53	710.45	2280.43	1717.77	66.52	16.30	5900.00	0.0041	2.88	9.59	49.33	12.08	5900.00	0.0041	9.26	10.67	9.04	10.50
VANO 17	1.20	2.00	1801.53	683.29	2205.69	1633.44	51.73	12.67	5900.00	0.0041	2.77	7.72	46.90	11.49	5900.00	0.0041	8.95	10.22	9.04	10.50
VANO 17	2.40	3.00	1698.44	656.36	2132.85	1548.97	48.77	11.95	5900.00	0.0041	2.66	7.31	44.48	10.90	5900.00	0.0041	8.66	9.78	9.04	10.50
VANO 17	3.60	4.00	1605.64	629.66	2061.92	1464.37	46.11	11.30	5900.00	0.0041	2.56	6.93	42.05	10.30	5900.00	0.0041	8.37	9.34	9.04	10.50
VANO 17	4.80	5.00	1513.50	603.18	1992.90	1379.65	43.46	10.65	5900.00	0.0041	2.45	6.55	39.62	9.71	5900.00	0.0041	8.09	8.90	9.04	10.50
VANO 17	4.80	6.00	1513.50	603.18	1992.90	1379.65	43.46	10.65	5900.00	0.0041	2.45	6.55	39.62	9.71	5900.00	0.0041	8.09	8.90	9.04	10.50
VANO 17	6.00	7.00	1422.07	576.92	1925.79	1294.80	40.84	10.00	5900.00	0.0041	2.34	6.17	37.18	9.11	5900.00	0.0041	7.82	8.46	9.04	10.50
VANO 17	7.20	8.00	1331.41	550.89	1850.59	1209.84	38.23	9.37	5900.00	0.0041	2.24	5.80	34.74	8.51	5900.00	0.0041	7.55	8.03	9.04	10.50
VANO 17	8.40	9.00	1232.18	525.09	1797.30	1124.77	35.38	8.67	5900.00	0.0041	2.13	5.40	32.30	7.91	5900.00	0.0041	7.30	7.60	9.04	10.50
VANO 17	9.60	10.00	1130.68	499.51	1735.91	1039.59	32.47	7.95	5900.00	0.0041	2.03	4.99	29.85	7.31	5900.00	0.0041	7.05	7.18	9.04	10.50
VANO 17	9.60	11.00	1130.68	499.51	1735.91	1039.59	32.47	7.95	5900.00	0.0041	2.03	4.99	29.85	7.31	5900.00	0.0041	7.05	7.18	9.04	10.50
VANO 17	10.80	12.00	1030.10	474.16	1676.44	954.31	29.58	7.25	5900.00	0.0041	1.92	4.59	27.40	6.71	5900.00	0.0041	6.81	6.76	9.04	10.50
VANO 17	12.00	13.00	930.46	449.04	1618.87	868.93	26.72	6.55	5900.00	0.0041	1.82	4.18	24.95	6.11	5900.00	0.0041	6.57	6.34	9.04	10.50
VANO 17	13.20	14.00	831.83	424.14	1563.22	783.47	23.89	5.85	5900.00	0.0041	1.72	3.79	22.50	5.51	5900.00	0.0041	6.35	5.93	9.04	10.50
VANO 17	14.40	15.00	734.22	399.46	1519.47	697.93	21.08	5.17	5900.00	0.0041	1.62	3.39	20.04	4.91	5900.00	0.0041	6.13	5.52	9.04	10.50
VANO 17	14.40	16.00	717.28	399.46	1519.47	680.99	20.60	5.05	5900.00	0.0041	1.62	3.33	19.55	4.79	5900.00	0.0041	6.13	5.46	9.04	10.50
VANO 17	15.60	17.00	620.74	375.01	1497.63	595.37	17.82	4.37	5900.00	0.0041	1.52	2.94	17.10	4.19	5900.00	0.0041	5.92	5.05	9.04	10.50
VANO 17	16.80	18.00	525.30	350.79	1497.70	509.69	15.08	3.70	5900.00	0.0041	1.42	2.56	14.64	3.59	5900.00	0.0041	5.71	4.65	9.04	10.50
VANO 17	18.00	19.00	430.99	326.79	1379.68	423.96	12.38	3.03	5900.00	0.0041	1.33	2.18	12.17	2.98	5900.00	0.0041	5.52	4.25	9.04	10.50
VANO 17	19.20	20.00	489.77	177.07	1373.67	338.18	14.06	3.45	5900.00	0.0041	0.72	2.08	9.71	2.38	5900.00	0.0041	5.33	3.88	9.04	10.50
VANO 17	19.20	21.00	489.77	177.07	1373.67	338.18	14.06	3.45	5900.00	0.0041	0.72	2.08	9.71	2.38	5900.00	0.0041	5.33	3.86	9.04	10.50
VANO 17	20.40	22.00	567.43	166.70	1297.77	252.36	16.29	3.99	5900.00	0.0041	0.68	2.33	7.25	1.78	5900.00	0.0041	5.15	3.46	9.04	10.50
VANO 17	21.60	23.00	646.40	156.32	1297.99	166.51	18.56	4.55	5900.00	0.0041	0.63	2.59	4.78	1.17	5900.00	0.0041	4.98	3.08	9.04	10.50
VANO 17	22.80	24.00	726.69	145.95	1118.32	80.65	20.87	5.11	5900.00	0.0041	0.59	2.85	2.32	0.57	5900.00	0.0041	4.82	2.70	9.04	10.50
VANO 17	24.00	25.00	399.83	135.57	1119.79	5.23	11.48	2.81	5900.00	0.0041	0.55	1.68	0.15	0.04	5900.00	0.0041	4.67	2.35	9.04	10.50
VANO 17	24.00	26.00	399.83	135.57	1119.79	5.23	11.48	2.81	5900.00	0.0041	0.55	1.68	0.15	0.04	5900.00	0.0041	4.67	2.35	9.04	10.50
VANO 17	25.20	27.00	711.62	187.04	1123.33	92.00	20.43	5.01	5900.00	0.0041	0.76	2.88	2.64	0.65	5900.00	0.0041	4.56	2.60	9.04	10.50
VANO 17	26.40	28.00	631.31	164.70	1105.88	178.76	18.13	4.44	5900.00	0.0041	0.67	2.55	5.13	1.26	5900.00	0.0041	4.49	2.88	9.04	10.50
VANO 17	27.60	29.00	552.32	142.63	1123.66	262.81	15.86	3.89	5900.00	0.0041	0.58	2.23	7.55	1.85	5900.00	0.0041	4.57	3.21	9.04	10.50
VANO 17	28.80	30.00	474.65	120.83	1153.72	348.63	13.63	3.34	5900.00	0.0041	0.49	1.91	10.01	2.45	5900.00	0.0041	4.71	3.58	9.04	10.50
VANO 17	28.80	31.00	474.65	120.83	1153.72	348.63	13.63	3.34	5900.00	0.0041	0.49	1.91	10.01	2.45	5900.00	0.0041	4.71	3.58	9.04	10.50
VANO 17	30.00	32.00	441.60	111.38	1193.69	434.41	12.68	3.11	5900.00	0.0041	0.45	1.78	12.47	3.06	5900.00	0.0041	4.87	3.96	9.04	10.50
VANO 17	31.20	33.00	535.90	124.89	1243.30	520.14	15.39	3.77	5900.00	0.0041	0.51	2.14	14.94	3.66	5900.00	0.0041	5.05	4.35	9.04	10.50
VANO 17	32.40	34.00	631.32	143.44	1283.82	605.82	18.13	4.44	5900.00	0.0041	0.58	2.51	17.40	4.26	5900.00	0.0041	5.23	4.75	9.04	10.50
VANO 17	33.60	35.00	727.84	163.77	1333.73	691.44	20.90	5.12	5900.00	0.0041	0.66	2.89	19.85	4.86	5900.00	0.0041	5.43	5.15	9.04	10.50
VANO 17	33.60	36.00	727.84	163.77	1333.73	691.44	20.90	5.12	5900.00	0.0041	0.66	2.89	19.85	4.86	5900.00	0.0041	5.43	5.15	9.04	10.50
VANO 17	34.80	37.00	625.43	184.39	1386.66	776.98	23.70	5.81	5900.00	0.0041	0.75	3.28	22.31	5.47	5900.00	0.0041	5.63	5.55	9.04	10.50
VANO 17	36.00	38.00	924.05	205.23	1443.50	862.45	26.53	6.50	5900.00	0.0041	0.83	3.67	24.77	6.07	5900.00	0.0041	5.84	5.95	9.04	10.50
VANO 17	37.20	39.00	1023.67	226.30	1497.24	947.82	29.40	7.20	5900.00	0.0041	0.92	4.06	27.22	6.67	5900.00	0.0041	6.06	6.36	9.04	10.50
VANO 17	38.40	40.00	1124.25	247.59	1549.90	1033.11	32.28	7.91	5900.00	0.0041	1.01	4.46	29.67	7.27	5900.00	0.0041	6.28	6.78	9.04	10.50
VANO 17	38.40	41.00	1124.25	247.59	1549.90	1033.11	32.28	7.91	5900.00	0.0041	1.01	4.46	29.67	7.27	5900.00	0.0041	6.28	6.78	9.04	10.50
VANO 17	39.60	42.00	1225.73	269.50	1600.06	1118.29	35.20	8.62	5900.00	0.0041	1.09	4.86	32.11	7.87	5900.00	0.0041	6.52	7.20	9.04	10.50
VANO 17	40.80	43.00	1328.09	292.13	1650.68	1203.36	38.14	9.34	5900.00	0.0041	1.19	5.26	34.56	8.47	5900.00	0.0041	6.78	7.62	9.04	10.50
VANO 17	42.00	44.00	1431.26	314.99	1701.20	1288.33	41.10	10.07	5900.00	0.0041	1.28	5.67	36.99	9.06	5900.00	0.0041	7.04	8.05	9.04	10.50
VANO 17	43.20	45.00	1535.21	338.08	1751.64	1373.18	44.08	10.80	5900.00	0.0041	1.37	6.09	39.43	9.66	5900.00	0.0041	7.31	8.48	9.04	10.50
VANO 17	43.20	46.00	1535.21	338.08	1800.64	1373.18	44.08	10.80	5900.00	0.0041	1.37	6.09	39.43	9.66	5900.00	0.0041	7.31	8.48	9.04	10.50
VANO 17	44.40	47.00	1639.87	361.39	1851.98	1457.90	47.09	11.54	5900.00	0.0041	1.47	6.50	41.86	10.26	5900.00	0.0041	7.59	8.92	9.04	10.50
VANO 17	45.60	48.00	1745.20	384.93	1901.24	1542.50	50.11	12.28	5900.00	0.0041	1.56	6.92	44.29	10.85	5900.00	0.0041	7.87	9.36	9.04	10.50
VANO 17	46.80	49.00	1851.13	408.69	2011.40	1626.97	53.16	13.02	5900.00	0.0041	1.66	7.34	46.72	11.45	5900.00	0.0041	8.16	9.81	9.04	10.50
VANO 17	48.00	50.00	2048.13	432.48	2064.47	1711.81	67.94	16.65	5900.00	0.0041	1.76	8.20	46.73	11.45	5900.00	0.0041	8.17	10.25	9.04	10.50
VANO 18	0.00	1.00	2316.53	710.45	2280.43	1717.77	66.52	16.30	5900.00	0.0041	2.88	9.59	49.31	12.08	5900.00	0.0041	9.12	10.60	9.04	10.50
VANO 18	1.20	2.00	1801.53	683.29	2205.69	1632.87	51.73	12.67	5900.00	0.0041	2.77	7.72	46.89	11.49	5900.00	0.0041	8.82	10.15	9.04	10.50
VANO 18	2.40	3.00	1698.44	656.36	2132.85	1548.41	48.77	11.95	5900.00	0.0041	2.66	7.31	44.46	10.89	5900.00	0.0041	8.53	9.71	9.04	10.50
VANO 18	3.60	4.00	1605.64	629.66	2061.92	1463.81	46.11	11.30	5900.00	0.0041	2.56	6.93	42.03	10.30	5900.00	0.0041	8.24	9.27	9.04	10.50
VANO 18	4.80	5.00	1513.50	603.18	1992.85	1379.08	43.46	10.65	5900.00	0.0041	2.45	6.55	39.60	9.70	5900.00	0.0041	7.96	8.83	9.04	10.50
VANO 18	4.80	6.00	1513.50	603.18	1992.85	1379.08	43.46	10.65	5900.00	0.0041	2.45	6.55	39.60	9.70	5900.00	0.0041	7.96	8.83	9.04	10.50
VANO 18	6.00	7.00	1422.07	576.92	1893.90	1294.24	40.84	10.00	5900.00	0.0041	2.34	6.17	37.16	9.11	5900.00	0.0041	7.69	8.40	9.04	10.50
VANO 18	7.20	8.00	1331.41	550.89	1828.86	1209.28	38.23	9.37	5900.00	0.0041	2.24	5.80	34.72	8.51	5900.00	0.0041	7.42	7.97	9.04	10.50
VANO 18	8.40	9.00	1232.18	525.09	1765.71	1124.20	35.38	8.67	5900.00	0.0041	2.13	5.40	32.28	7.91	5900.00	0.0041	7.17	7.54	9.04	10.50
VANO 18	9.60	10.00	1130.68	499.51	1704.47	1039.02	32.47	7.95	5900.00	0.0041	2.03	4.99	29.84	7.31	5900.00	0.0041	6.92	7.11	9.04	10.50
VANO 18	9.60	11.00	1130.68	499.51	1704.47	1039.02	32.47	7.95	5900.00	0.0041	2.03	4.99	29.84	7.31	5900.00	0.0041	6.92	7.11	9.04	10.50
VANO 18	10.80	12.00	1030.10	474.16	1645.13	953.74	29.58	7.25	5900.00	0.0041	1.92	4.59	27.39	6.71	5900.00	0.0041	6.68	6.69	9.04	10.50
VANO 18	12.00	13.00	930.46	449.04	1587.70	868.37	26.72	6.55	5900.00	0.0041	1.82	4.18	24.94	6.11	5900.00	0.0041	6.44	6.28	9.04	10.50
VANO 18	13.20	14.00	831.83	424.14	1532.17	782.91	23.89	5.85	5900.00	0.0041	1.72	3.79	22.48	5.51	5900.00	0.0041	6.22	5.86	9.04	10.50
VANO 18	14.40	15.00	734.22	399.46	1478.54	697.37	21.08	5.17	5900.00	0.0041	1.62	3.39	20.03	4.91	5900.00	0.0041	6.00	5.45	9.04	10.50
VANO 18	14.40	16.00	717.28	399.46	1478.54	680.42	20.60	5.05	5900.00	0.0041	1.62	3.33	19.54	4.79	5900.00	0.0041	6.00	5.39	9.04	10.50
VANO 18	15.60	17.00	620.74	375.01	1426.31	594.81	17.82	4.37	5900.00	0.0041	1.52	2.94	17.08	4.18	5900.00	0.0041	5.79	4.99	9.04	10.50
VANO 18	16.80	18.00	525.30	350.79	1376.38	509.13	15.08	3.70	5900.00	0.0041	1.42	2.56	14.62	3.58	5900.00	0.0041	5.59	4.59	9.04	10.50
VANO 18	18.00	19.00	430.99	326.79	1329.36	423.40	12.38	3.03	5900.00	0.0041	1.33	2.18	12.16	2.98	5900.00	0.0041	5.39	4.19	9.04	10.50
VANO 18	19.20	20.00	489.77	177.07	1283.15	337.62	14.06	3.45	5900.00	0.0041	0.72	2.08	9.69	2.38	5900.00	0.0041	5.21	3.78	9.04	10.50
VANO 18	19.20	21.00	489.77	177.07	1283.15	337.62	14.06	3.45	5900.00	0.0041	0.72	2.08	9.69	2.38	5900.00	0.0041	5.21	3.79	9.04	10.50
VANO 18	20.40	22.00	567.43	166.70	1239.13	251.80	16.29	3.99	5900.00	0.0041	0.68	2.33	7.23	1.77	5900.00	0.0041	5.03	3.40	9.04	10.50
VANO 18	21.60	23.00	646.40	156.32	1197.63	165.96	18.56	4.55	5900.00	0.0041	0.63	2.59	4.77	1.17	5900.00	0.0041	4.86	3.01	9.04	10.50
VANO 18	22.80	24.00	726.69	145.95	1158.03	80.10	20.87	5.11	5900.00	0.0041	0.59	2.85	2.30	0.56	5900.00	0.0041	4.70	2.63	9.04	10.50
VANO 18	24.00	25.00	399.83	135.57	1120.54	5.78	11.48	2.81	5900.00	0.0041	0.55	1.68	0.17	0.04	5900.00	0.0041	4.55	2.29	9.04	10.50
VANO 18	24.00	26.00	399.83	135.57	1120.54	5.78	11.48	2.81	5900.00	0.0041	0.55	1.68	0.17	0.04	5900.00	0.0041	4.55	2.29	9.04	10.50
VANO 18	25.20	27.00	711.62	187.04	1096.61	92.56	20.43	5.01	5900.00	0.0041	0.76	2.88	2.66	0.65	5900.00	0.0041	4.45	2.55	9.04	10.50
VANO 18	26.40	28.00	631.31	164.70	1111.62	177.51	18.13	4.44	5900.00	0.0041	0.67	2.55	5.10	1.25	5900.00	0.0041	4.51	2.88	9.04	10.50
VANO 18	27.60	29.00	552.32	142.63	1143.18	263.36	15.86	3.89	5900.00	0.0041	0.58	2.23	7.56	1.85	5900.00	0.0041	4.64	3.25	9.04	10.50
VANO 18	28.80	30.00	474.65	120.83	1182.62	349.17	13.63	3.34	5900.00	0.0041	0.49	1.91	10.03	2.46	5900.00	0.0041	4.80	3.63	9.04	10.50
VANO 18	28.80	31.00	474.65	120.83	1182.62	349.17	13.63	3.34	5900.00	0.0041	0.49	1.91	10.03	2.46	5900.00	0.0041	4.80	3.63	9.04	10.50
VANO 18	30.00	32.00	441.60	111.38	1224.62	434.95	12.68	3.11	5900.00	0.0041	0.45	1.78	12.49	3.06	5900.00	0.0041	4.97	4.02	9.04	10.50
VANO 18	31.20	33.00	535.90	124.89	1268.84	520.69	15.39	3.77	5900.00	0.0041	0.51	2.14	14.95	3.66	5900.00	0.0041	5.15	4.41	9.04	10.50
VANO 18	32.40	34.00	631.32	143.44	1314.58	606.36	18.13	4.44	5900.00	0.0041	0.58	2.51	17.41	4.27	5900.00	0.0041	5.34	4.80	9.04	10.50
VANO 18	33.60	35.00	727.84	163.77	1365.87	691.98	20.90	5.12	5900.00	0.0041	0.66	2.89	19.87	4.87	5900.00	0.0041	5.54	5.21	9.04	10.50
VANO 18	33.60	36.00	727.84	163.77	1365.87	691.98	20.90	5.12	5900.00	0.0041	0.66	2.89	19.87	4.87	5900.00	0.0041	5.54	5.21	9.04	10.50
VANO 18	34.80	37.00	625.43	184.39	1418.91	777.52	23.70	5.81	5900.00	0.0041	0.75	3.28	22.33	5.47	5900.00	0.0041	5.76	5.61	9.04	10.50
VANO 18	36.00	38.00	924.05	205.23	1473.91	862.98	26.53	6.50	5900.00	0.0041	0.83	3.67	24.78	6.07	5900.00	0.0041	5.98	6.03	9.04	10.50
VANO 18	37.20	39.00	1023.67	226.30	1530.71	948.36	29.40	7.20	5900.00	0.0041	0.92	4.06	27.23	6.67	5900.00	0.0041	6.21	6.44	9.04	10.50
VANO 18	38.40	40.00	1124.25	247.59	1589.53	1033.64	32.28	7.91	5900.00	0.0041	1.01	4.46	29.68	7.27	5900.00	0.0041	6.45	6.86	9.04	10.50
VANO 18	38.40	41.00	1124.25	247.59	1589.53	1033.64	32.28	7.91	5900.00	0.0041	1.01	4.46	29.68	7.27	5900.00	0.0041	6.45	6.86	9.04	10.50
VANO 18	39.60	42.00	1225.73	269.50	1650.23	1118.82	35.20	8.62	5900.00	0.0041	1.09	4.86	32.13	7.87	5900.00	0.0041	6.70	7.28	9.04	10.50
VANO 18	40.80	43.00	1328.09	292.13	1712.81	1203.89	38.14	9.34	5900.00	0.0041	1.19	5.26	34.57	8.47	5900.00	0.0041	6.95	7.71	9.04	10.50
VANO 18	42.00	44.00	1431.26	314.99	1777.3	1288.86	41.10	10.07	5900.00	0.0041	1.28	5.67	37.01	9.07	5900.00	0.0041	7.21	8.14	9.04	10.50
VANO 18	43.20	45.00	1535.21	338.08	1843.70	1373.70	44.08	10.80	5900.00	0.0041	1.37	6.09	39.45	9.66	5900.00	0.0041	7.48	8.57	9.04	10.50
VANO 18	43.20	46.00	1535.21	338.08	1843.70	1373.70	44.08	10.80	5900.00	0.0041	1.37	6.09	39.45	9.66	5900.00	0.0041	7.48	8.57	9.04	10.50
VANO 18	44.40	47.00	1639.87	361.39	1911.98	1458.43	47.09	11.54	5900.00	0.0041	1.47	6.50	41.88	10.26	5900.00	0.0041	7.76	9.01	9.04	10.50
VANO 18	45.60	48.00	1745.20	384.93	1982.11	1543.03	50.11	12.28	5900.00	0.0041	1.56	6.92	44.31	10.86	5900.00	0.0041	8.05	9.45	9.04	10.50
VANO 18	46.80	49.00	1851.13	408.69	2054.21	1627.50	53.16	13.02	5900.00	0.0041	1.66	7.34	46.73	11.45	5900.00	0.0041	8.34	9.89	9.04	10.50

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA SUPERIOR ZONA CENTRAL

CARACT. RASANTE

M est (S4)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816	Ae =	20.67
fck (t/m2) =	4082	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante		Hipótesis max torsor		Dos caras				Una cara	Dos caras				Una cara	FLEXIÓN TRANS			
			Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 19	0.00	1.00	2316.53	710.45	2110.42	1719.54	66.52	16.30	5900.00	0.0041	2.88	9.59	49.38	12.10	5900.00	0.0041	8.57	10.33	9.04	10.50	10.33	10.50
VANO 19	1.20	2.00	1801.53	683.29	2033.10	1635.21	51.73	12.67	5900.00	0.0041	2.77	7.72	46.96	11.50	5900.00	0.0041	8.26	9.88	9.04	10.50	9.88	10.50
VANO 19	2.40	3.00	1698.44	656.36	1963.69	1550.74	48.77	11.95	5900.00	0.0041	2.66	7.31	44.53	10.91	5900.00	0.0041	7.97	9.44	9.04	10.50	9.44	10.50
VANO 19	3.60	4.00	1605.64	629.66	1893.18	1466.14	46.11	11.30	5900.00	0.0041	2.56	6.93	42.10	10.31	5900.00	0.0041	7.68	9.00	9.04	10.50	9.04	10.50
VANO 19	4.80	5.00	1513.50	603.18	1824.57	1381.42	43.46	10.65	5900.00	0.0041	2.45	6.55	39.67	9.72	5900.00	0.0041	7.41	8.56	9.04	10.50	9.04	10.50
VANO 19	4.80	6.00	1513.50	603.18	1824.57	1381.42	43.46	10.65	5900.00	0.0041	2.45	6.55	39.67	9.72	5900.00	0.0041	7.41	8.56	9.04	10.50	9.04	10.50
VANO 19	6.00	7.00	1422.07	576.92	1757.87	1296.57	40.84	10.00	5900.00	0.0041	2.34	6.17	37.23	9.12	5900.00	0.0041	7.14	8.13	9.04	10.50	9.04	10.50
VANO 19	7.20	8.00	1331.41	550.89	1693.08	1211.61	38.23	9.37	5900.00	0.0041	2.24	5.80	34.79	8.52	5900.00	0.0041	6.87	7.70	9.04	10.50	9.04	10.50
VANO 19	8.40	9.00	1232.18	525.09	1631.18	1126.54	35.38	8.67	5900.00	0.0041	2.13	5.40	32.35	7.93	5900.00	0.0041	6.62	7.27	9.04	10.50	9.04	10.50
VANO 19	9.60	10.00	1130.68	499.51	1569.19	1041.36	32.47	7.95	5900.00	0.0041	2.03	4.99	29.90	7.33	5900.00	0.0041	6.37	6.85	9.04	10.50	9.04	10.50
VANO 19	9.60	11.00	1130.68	499.51	1569.19	1041.36	32.47	7.95	5900.00	0.0041	2.03	4.99	29.90	7.33	5900.00	0.0041	6.37	6.85	9.04	10.50	9.04	10.50
VANO 19	10.80	12.00	1030.10	474.16	1513.11	956.08	29.58	7.25	5900.00	0.0041	1.92	4.59	27.45	6.73	5900.00	0.0041	6.13	6.43	9.04	10.50	9.04	10.50
VANO 19	12.00	13.00	930.46	449.04	1451.92	870.71	26.72	6.55	5900.00	0.0041	1.82	4.18	25.00	6.13	5900.00	0.0041	5.90	6.01	9.04	10.50	9.04	10.50
VANO 19	13.20	14.00	831.83	424.14	1397.64	785.24	23.89	5.85	5900.00	0.0041	1.72	3.79	22.55	5.52	5900.00	0.0041	5.67	5.60	9.04	10.50	9.04	10.50
VANO 19	14.40	15.00	734.22	399.46	1343.69	699.70	21.08	5.17	5900.00	0.0041	1.62	3.39	20.09	4.92	5900.00	0.0041	5.46	5.19	9.04	10.50	9.04	10.50
VANO 19	14.40	16.00	717.28	399.46	1343.69	682.76	20.60	5.05	5900.00	0.0041	1.62	3.33	19.61	4.80	5900.00	0.0041	5.46	5.13	9.04	10.50	9.04	10.50
VANO 19	15.60	17.00	620.74	375.01	1297.38	597.15	17.82	4.37	5900.00	0.0041	1.52	2.94	17.15	4.20	5900.00	0.0041	5.27	4.73	9.04	10.50	9.04	10.50
VANO 19	16.80	18.00	525.30	350.79	1258.96	511.47	15.08	3.70	5900.00	0.0041	1.42	2.56	14.69	3.60	5900.00	0.0041	5.08	4.34	9.04	10.50	9.04	10.50
VANO 19	18.00	19.00	430.99	326.79	1208.45	425.74	12.38	3.03	5900.00	0.0041	1.33	2.18	12.23	3.00	5900.00	0.0041	4.90	3.95	9.04	10.50	9.04	10.50
VANO 19	19.20	20.00	489.77	177.07	1161.64	339.96	14.06	3.45	5900.00	0.0041	0.72	2.08	9.76	2.39	5900.00	0.0041	4.73	3.56	9.04	10.50	9.04	10.50
VANO 19	19.20	21.00	489.77	177.07	1161.64	339.96	14.06	3.45	5900.00	0.0041	0.72	2.08	9.76	2.39	5900.00	0.0041	4.73	3.56	9.04	10.50	9.04	10.50
VANO 19	20.40	22.00	567.43	166.70	1112.08	254.15	16.29	3.99	5900.00	0.0041	0.68	2.33	7.30	1.79	5900.00	0.0041	4.58	3.18	9.04	10.50	9.04	10.50
VANO 19	21.60	23.00	646.40	156.32	1096.10	168.30	18.56	4.55	5900.00	0.0041	0.63	2.59	4.83	1.18	5900.00	0.0041	4.45	2.82	9.04	10.50	9.04	10.50
VANO 19	22.80	24.00	726.69	145.95	1088.45	83.36	20.87	5.11	5900.00	0.0041	0.59	2.85	2.39	0.59	5900.00	0.0041	4.42	2.50	9.04	10.50	9.04	10.50
VANO 19	24.00	25.00	399.83	135.57	1111.73	3.98	11.48	2.81	5900.00	0.0041	0.55	1.68	-0.11	0.03	5900.00	0.0041	4.53	2.28	9.04	10.50	9.04	10.50
VANO 19	24.00	26.00	399.83	135.57	1111.73	3.98	11.48	2.81	5900.00	0.0041	0.55	1.68	0.11	0.03	5900.00	0.0041	4.53	2.28	9.04	10.50	9.04	10.50
VANO 19	25.20	27.00	711.62	187.04	1152.95	89.30	20.43	5.01	5900.00	0.0041	0.76	2.88	2.56	0.63	5900.00	0.0041	4.68	2.65	9.04	10.50	9.04	10.50
VANO 19	26.40	28.00	631.31	164.70	1192.27	175.16	18.13	4.44	5900.00	0.0041	0.67	2.55	5.03	1.23	5900.00	0.0041	4.84	3.04	9.04	10.50	9.04	10.50
VANO 19	27.60	29.00	552.32	142.63	1232.71	261.01	15.86	3.89	5900.00	0.0041	0.58	2.23	7.49	1.84	5900.00	0.0041	5.01	3.42	9.04	10.50	9.04	10.50
VANO 19	28.80	30.00	474.65	120.83	1277.25	346.82	13.63	3.34	5900.00	0.0041	0.49	1.91	9.96	2.44	5900.00	0.0041	5.18	3.81	9.04	10.50	9.04	10.50
VANO 19	28.80	31.00	474.65	120.83	1277.25	346.82	13.63	3.34	5900.00	0.0041	0.49	1.91	9.96	2.44	5900.00	0.0041	5.18	3.81	9.04	10.50	9.04	10.50
VANO 19	30.00	32.00	441.60	111.38	1322.90	432.60	12.68	3.11	5900.00	0.0041	0.45	1.78	12.42	3.04	5900.00	0.0041	5.37	4.21	9.04	10.50	9.04	10.50
VANO 19	31.20	33.00	535.90	124.89	1370.55	518.33	15.39	3.77	5900.00	0.0041	0.51	2.14	14.88	3.65	5900.00	0.0041	5.56	4.60	9.04	10.50	9.04	10.50
VANO 19	32.40	34.00	631.32	143.44	1420.11	604.01	18.13	4.44	5900.00	0.0041	0.58	2.51	17.34	4.25	5900.00	0.0041	5.76	5.01	9.04	10.50	9.04	10.50
VANO 19	33.60	35.00	727.84	163.77	1471.57	689.62	20.90	5.12	5900.00	0.0041	0.66	2.89	19.80	4.85	5900.00	0.0041	5.97	5.41	9.04	10.50	9.04	10.50
VANO 19	33.60	36.00	727.84	163.77	1471.57	689.62	20.90	5.12	5900.00	0.0041	0.66	2.89	19.80	4.85	5900.00	0.0041	5.97	5.41	9.04	10.50	9.04	10.50
VANO 19	34.80	37.00	825.43	184.39	1524.94	775.16	23.70	5.81	5900.00	0.0041	0.75	3.28	22.26	5.45	5900.00	0.0041	6.19	5.82	9.04	10.50	9.04	10.50
VANO 19	36.00	38.00	924.05	205.23	1580.21	860.62	26.53	6.50	5900.00	0.0041	0.83	3.67	24.71	6.05	5900.00	0.0041	6.41	6.23	9.04	10.50	9.04	10.50
VANO 19	37.20	39.00	1023.67	226.30	1637.38	945.99	29.40	7.20	5900.00	0.0041	0.92	4.06	27.16	6.66	5900.00	0.0041	6.65	6.65	9.04	10.50	9.04	10.50
VANO 19	38.40	40.00	1124.25	247.59	1696.46	1031.27	32.28	7.91	5900.00	0.0041	1.01	4.46	29.61	7.26	5900.00	0.0041	6.89	7.07	9.04	10.50	9.04	10.50
VANO 19	38.40	41.00	1124.25	247.59	1696.46	1031.27	32.28	7.91	5900.00	0.0041	1.01	4.46	29.61	7.26	5900.00	0.0041	6.89	7.07	9.04	10.50	9.04	10.50
VANO 19	39.60	42.00	1225.73	269.50	1757.44	1116.45	35.20	8.62	5900.00	0.0041	1.09	4.86	32.06	7.85	5900.00	0.0041	7.13	7.49	9.04	10.50	9.04	10.50
VANO 19	40.80	43.00	1328.09	292.13	1820.33	1201.52	38.14	9.34	5900.00	0.0041	1.19	5.26	34.50	8.45	5900.00	0.0041	7.39	7.92	9.04	10.50	9.04	10.50
VANO 19	42.00	44.00	1431.26	314.99	1885.12	1286.49	41.10	10.07	5900.00	0.0041	1.28	5.67	36.94	9.05	5900.00	0.0041	7.65	8.35	9.04	10.50	9.04	10.50
VANO 19	43.20	45.00	1535.21	338.08	1951.81	1371.33	44.08	10.80	5900.00	0.0041	1.37	6.09	39.38	9.65	5900.00	0.0041	7.92	8.79	9.04	10.50	9.04	10.50
VANO 19	43.20	46.00	1535.21	338.08	1951.81	1371.33	44.08	10.80	5900.00	0.0041	1.37	6.09	39.38	9.65	5900.00	0.0041	7.92	8.79	9.04	10.50	9.04	10.50
VANO 19	44.40	47.00	1639.87	361.39	2020.41	1456.05	47.09	11.54	5900.00	0.0041	1.47	6.50	41.81	10.24	5900.00	0.0041	8.20	9.22	9.04	10.50	9.04	10.50
VANO 19	45.60	48.00	1745.20	384.93	2090.91	1540.65	50.11	12.28	5900.00	0.0041	1.56	6.92	44.24	10.84	5900.00	0.0041	8.49	9.66	9.04	10.50	9.22	10.50
VANO 19	46.80	49.00	1851.13	408.69	2163.31	1625.12	53.16	13.02	5900.00	0.0041	1.66	7.34	46.67	11.43	5900.00	0.0041	8.78	10.11	9.04	10.50	9.66	10.50
VANO 20	0.00	1.00	2308.18	418.89	2207.62	1709.45	67.41	16.65	5900.00	0.0041	1.76	8.26	49.09	12.03	5900.00	0.0041	8.06	10.03	9.04	10.50	10.11	10.50
VANO 20	1.20	2.00	1793.23	393.69	1968.84	1715.72	66.28	16.24	5900.00	0.0041	1.70	8.97	49.27	12.07	5900.00	0.0041	7.99	10.03	9.04	10.50	10.03	10.50
VANO 20	2.40	3.00	1687.35	369.93	1896.11	1631.38	51.49	12.62	5900.00	0.0041	1.60	7.11	46.85	11.48	5900.00	0.0041	7.70	9.59	9.04	10.50	9.59	10.50
VANO 20	3.60	4.00	1582.08	346.40	1826.73	1546.90	48.45	11.87	5900.00	0.0041	1.50	6.69	44.42	10.88	5900.00	0.0041	7.42	9.15	9.04	10.50	9.15	10.50
VANO 20	4.80	5.00	1477.47	323.10	1759.25	1462.30	45.43	11.13	5900.00	0.0041	1.41	6.27	41.99	10.29	5900.00	0.0041	7.14	8.71	9.04	10.50	9.04	10.50
VANO 20	4.80	6.00	1477.47	323.10	1693.89	1377.57	42.43	10.39	5900.00	0.0041	1.31	5.85	39.56	9.69	5900.00	0.0041	6.88	8.28	9.04	10.50	9.04	10.50
VANO 20	6.00	7.00	1373.58	300.01	1693.89	1377.57	42.43	10.39	5900.00	0.0041	1.31	5.85	39.56	9.69	5900.00	0.0041	6.88	8.28	9.04	10.50	9.04	10.50
VANO 20	7.20	8.00	1269.49	277.15	1630.95	1292.72	39.44	9.66	5900.00	0.0041	1.22	5.44	37.12	9.09	5900.00	0.0041	6.62	7.86	9.04	10.50	9.04	10.50
VANO 20	8.40	9.00	1167.19	254.54	1568.31	1207.76	36.45	8.93	5900.00	0.0041	1.13	5.03	34.68	8.50	5900.00	0.0041	6.37	7.43	9.04	10.50	9.04	10.50
VANO 20	9.60	10.00	1065.76	232.20	1508.30	1122.68	33.52	8.21	5900.00	0.0041	1.03	4.62	32.24	7.90	5900.00	0.0041	6.12	7.01	9.04	10.50	9.04	10.50
VANO 20	9.60	11.00	1065.76	232.20	1450.36	1037.50	30.60	7.50	5900.00	0.0041	0.94	4.22	29.79	7.30	5900.00	0.0041	5.89	6.59	9.04	10.50	9.04	10.50
VANO 20	10.80	12.00	965.23	210.50	1450.36	1037.50	30.60	7.50	5900.00	0.0041	0.94	4.22	29.79	7.30	5900.00	0.0041	5.89	6.59	9.04	10.50	9.04	10.50
VANO 20	12.00	13.00	865.66	189.50	1395.15	952.21	27.72	6.79	5900.00	0.0041	0.85	3.82	27.34	6.70	5900.00	0.0041	5.66	6.18	9.04	10.50	9.04	10.50
VANO 20	13.20	14.00	767.09	168.72	1342.02	866.84	24.86	6.09	5900.00	0.0041	0.77	3.43	24.89	6.10	5900.00	0.0041	5.45	5.77	9.04	10.50	9.04	10.50
VANO 20	14.40	15.00	669.55	149.06	1290.11	781.37	22.03	5.40	5900.00	0.0041	0.68	3.04	22.44	5.50	5900.00	0.0041	5.24	5.37	9.04	10.50	9.04	10.50
VANO 20	14.40	16.00	652.61	149.06	1242.10	695.83	19.23	4.71	5900.00	0.0041	0.61	2.66	19.98	4.90	5900.00	0.0041	5.04	4.97	9.04	10.50	9.04	10.50
VANO 20	15.60	17.00	556.13	135.09	1242.10	678.88	18.74	4.59	5900.00	0.0041	0.61	2.60	19.49	4.78	5900.00	0.0041	5.04	4.91	9.04	10.50	9.04	10.50
VANO 20	16.80	18.00	460.75	121.34	1201.36	593.27	15.97	3.91	5900.00	0.0041	0.55	2.23	17.04	4.17	5900.00	0.0041	4.88	4.53	9.04	10.50	9.04	10.50
VANO 20	18.00	19.00	366.50	107.81	1162.24	507.59	13.23	3.24	5900.00	0.0041	0.49	1.87	14.58	3.57	5900.00	0.0041	4.72	4.14	9.04	10.50	9.04	10.50
VANO 20	19.20	20.00	415.94	111.37	1125.02	421.85	10.52	2.58	5900.00	0.0041	0.44	1.51	12.11	2.97	5900.00	0.0041	4.57	3.77	9.04	10.50	9.04	10.50
VANO 20	19.20	21.00	415.94	111.37	1089.83	336.07	11.94	2.93	5900.00	0.0041	0.45	1.69	9.65	2.36	5900.00	0.0041	4.42	3.39	9.04	10.50	9.04	10.50
VANO 20	20.40	22.00	496.78	133.21	1089.83	336.07	11.94	2.93	5900.00	0.0041	0.45	1.69	9.65	2.36	5900.00	0.0041	4.42	3.39	9.04	10.50	9.04	10.50
VANO 20	21.60	23.00	578.93	155.32	1090.04	252.92	14.27	3.49	5900.00	0.0041	0.54	2.02	7.26	1.78	5900.00	0.0041	4.42	3.10	9.04	10.50	9.04	10.50
VANO 20	22.80	24.00	662.40	177.71	1104.07	166.18	16.62	4.07	5900.00	0.0041	0.63	2.35	4.77	1.17	5900.00	0.0041	4.48	2.83	9.04	10.50	9.04	10.50
VANO 20	24.00	25.00	338.74	200.37	1129.43	79.41	19.02	4.66	5900.00	0.0041	0.72	2.69	2.28	0.56	5900.00	0.0041	4.58	2.57	9.04	10.50	9.04	10.50
VANO 20	24.00	26.00	338.74	200.37	1164.56	7.33	9.73	2.38	5900.00	0.0041	0.81	1.60	0.21	0.05	5900.00	0.0041	4.73	2.39	9.04	10.50	9.04	10.50
VANO 20	25.20	27.00	646.53	135.02	1164.56	7.33	9.73	2.38	5900.00	0.0041	0.81	1.60	0.21	0.05	5900.00	0.0041	4.73	2.39	9.04	10.50	9.04	10.50
VANO 20	26.40	28.00	563.13	145.47	1201.80	93.20	18.57	4.55	5900.00	0.0041	0.55	2.55	2.68	0.66	5900.00	0.0041	4.88	2.77	9.04	10.50	9.04	10.50
VANO 20	27.60	29.00	481.05	155.92	1241.15	179.06	16.17	3.96	5900.00	0.0041	0.59	2.28	5.14	1.26	5900.00	0.0041	5.04	3.15	9.04	10.50	9.04	10.50
VANO 20	28.80	30.00	400.28	170.28	1282.62	264.90	13.81	3.38	5900.00	0.0041	0.63	2.01	7.61	1.86	5900.00	0.0041	5.21	3.54	9.04	10.50	9.04	10.50
VANO 20	28.80	31.00	400.28	170.28	1326.21	350.72	11.49	2.82	5900.00	0.0041	0.69	1.75	10.07	2.47	5900.00	0.0041	5.38	3.93	9.04	10.50	9.04	10.50
VANO 20	30.00	32.00	382.92	317.64	1326.21	350.72	11.49	2.82	5900.00	0.0041	0.69	1.75	10.07	2.47	5900.00	0.0041	5.38	3.93	9.04	10.50	9.04	10.50
VANO 20	31.20	33.00	477.23	341.66	1371.92	436.50	11.00	2.69	5900.00	0.0041	1.29	1.99	12.53	3.07	5900.00	0.0041	5.57	4.32	9.04	10.50	9.04	10.50
VANO 20	32.40	34.00	572.66	365.91	1419.63	522.23	13.70	3.36	5900.00	0.0041	1.39	2.37	15.00	3.67	5900.00	0.0041	5.76	4.72	9.04	10.50	9.04	10.50
VANO 20	33.60	35.00	669.20	390.38	1469.25	607.90	16.44	4.03	5900.00	0.0041	1.49	2.76	17.46	4.28	5900.00	0.0041	5.96	5.12	9.04	10.50	9.04	10.50
VANO 20	33.60	36.00	669.20	390.38	1520.83	693.51	19.22	4.71	5900.00	0.0041	1.58	3.15	19.91	4.88	5900.00	0.0041	6.17	5.53	9.04	10.50	9.04	10.50
VANO 20	34.80	37.00	766.79	415.08	1520.83	693.51	19.22	4.71	5900.00	0.0041	1.58	3.15	19.91	4.88	5900.00	0.0041	6.17	5.53	9.04	10.50	9.04	10.50
VANO 20	36.00	38.00	865.42	439.99	1574.25	779.05	22.02	5.39	5900.00	0.0041	1.68	3.54	22.37	5.48	5900.00	0.0041	6.39	5.94	9.04	10.50	9.04	10.50
VANO 20	37.20	39.00	965.04	465.14	1629.61	864.51	24.85	6.09	5900.00	0.0041	1.79	3.94	24.82	6.08	5900.00	0.0041	6.61	6.35	9.04	10.50	9.04	10.50
VANO 20	38.40	40.00	1065.61	490.50	1686.83	949.88	27.71	6.79	5900.00	0.0041	1.89	4.34	27.28	6.68	5900.00	0.0041	6.85	6.77	9.04	10.50	9.04	10.50
VANO 20	38.40	41.00	1065.61	490.50	1746.07	1035.15	30.60	7.50	5900.00	0.0041	1.99	4.74	29.72	7.28	5900.00	0.0041	7.09	7.19	9.04	10.50	9.04	10.50
VANO 20	39.60	42.00	1167.09	516.10	1746.07	1035.15	30.60	7.50	5900.00	0.0041	1.99	4.74	29.72	7.28	5900.00	0.0041	7.09	7.19	9.04	10.50	9.04	10.50
VANO 20	40.80	43.00	1269.43	541.91	1807.17	1120.33	33.51	8.21	5900.00	0.0041	2.09	5.15	32.17	7.88	5900.00	0.0041	7.34	7.61	9.04	10.50	9.04	10.50
VANO 20	42.00	44.00	1372.60	567.95	1870.17	1205.40	36.45	8.93	5900.00	0.0041	2.20	5.57	34.61	8.48	5900.00	0.0041	7.59	8.04	9.04	10.50	9.04	10.50
VANO 20	43.20	45.00	1476.52	594.21	1935.00	1290.35	39.41	9.66	5900.00	0.0041	2.31	5.98	37.05	9.08	5900.00	0.0041	7.85	8.47	9.04	10.50	9.04	10.50
VANO 20	43.20	46.00	1476.52	594.21	2001.92	1375.19	42.40	10.39	5900.00	0.0041	2.41	6.40	39.49	9.67	5900.00	0.0041	8.13	8.90	9.04	10.50	9.04	10.50
VANO 20	44.40	47.00	1581.17	620.70	2001.92	1375.19	42.40	10.39	5900.00	0.0041	2.41	6.40	39.49	9.67	5900.00	0.0041	8.13	8.90	9.04	10.50	9.04	10.50
VANO 20	45.60	48.00	1686.47	647.41	2070.66	1459.91	45.40	11.12	5900.00	0.0041	2.52	6.82	41.92	10.27	5900.00	0.0041	8.41	9.34	9.04	10.50	9.34	10.50
VANO 20	46.80	49.00	1792.38	674.34	2141.38	1544.50	48.43	11.86	5900.00	0.0041	2.63	7.25	44.35	10.87	5900.00	0.0041	8.69	9.78	9.04	10.50	9.78	10.50
					2213.86	1628.96	51.47	12.61	5900.00	0.0041	2.74	7.67	46.78	11.46	5900.00	0.0041	8.99	10.22	9.04	10.50	10.22	10.50

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

ARMADO DE LOSA SUPERIOR ZONA CENTRAL

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20 008	24 9687
ys	1 495	1 754
yi	2 505	2 246

PRETENSA Exterior

Nº TENDON	6	14	Lanz. Adic
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

Lanzamient Variables

CARACT. RASANTE

M est (S4)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec =	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816	Ae =	20.67
fck (t/m2) =	4082	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 21	0.00	1.00	2295.31	303.03	1698.01	1721.99	65.11	16.15	5900.00	0.0041	1.23	8.69	49.45	12.11	5900.00	0.0041	6.89	9.50	9.04	10.50	9.50	10.50
VANO 21	1.20	2.00	1780.31	286.39	1634.34	1637.62	51.12	12.52	5900.00	0.0041	1.16	6.84	47.02	11.52	5900.00	0.0041	6.63	9.08	9.04	10.50	9.08	10.50
VANO 21	2.40	3.00	1674.38	269.99	1572.62	1553.13	48.08	11.78	5900.00	0.0041	1.10	6.44	44.60	10.93	5900.00	0.0041	6.38	8.66	9.04	10.50	9.04	10.50
VANO 21	3.60	4.00	1569.07	253.81	1512.87	1468.50	45.06	11.04	5900.00	0.0041	1.03	6.03	42.17	10.33	5900.00	0.0041	6.14	8.24	9.04	10.50	9.04	10.50
VANO 21	4.80	5.00	1464.42	237.86	1455.07	1383.75	42.05	10.30	5900.00	0.0041	0.97	5.63	39.74	9.74	5900.00	0.0041	5.91	7.82	9.04	10.50	9.04	10.50
VANO 21	4.80	6.00	1464.42	237.86	1455.07	1383.75	42.05	10.30	5900.00	0.0041	0.97	5.63	39.74	9.74	5900.00	0.0041	5.91	7.82	9.04	10.50	9.04	10.50
VANO 21	6.00	7.00	1360.51	222.14	1399.24	1298.88	39.07	9.57	5900.00	0.0041	0.90	5.24	37.30	9.14	5900.00	0.0041	5.68	7.41	9.04	10.50	9.04	10.50
VANO 21	7.20	8.00	1257.38	206.65	1345.36	1213.90	36.11	8.85	5900.00	0.0041	0.84	4.84	34.86	8.54	5900.00	0.0041	5.46	7.00	9.04	10.50	9.04	10.50
VANO 21	8.40	9.00	1155.08	196.47	1293.44	1128.80	33.17	8.13	5900.00	0.0041	0.80	4.46	32.41	7.94	5900.00	0.0041	5.25	6.60	9.04	10.50	9.04	10.50
VANO 21	9.60	10.00	1053.66	206.80	1243.48	1043.59	30.26	7.41	5900.00	0.0041	0.84	4.13	29.97	7.34	5900.00	0.0041	5.05	6.19	9.04	10.50	9.04	10.50
VANO 21	9.60	11.00	1053.66	206.80	1243.48	1043.59	30.26	7.41	5900.00	0.0041	0.84	4.13	29.97	7.34	5900.00	0.0041	5.05	6.19	9.04	10.50	9.04	10.50
VANO 21	10.80	12.00	953.16	217.13	1195.48	958.29	27.37	6.71	5900.00	0.0041	0.88	3.79	27.52	6.74	5900.00	0.0041	5.05	6.19	9.04	10.50	9.04	10.50
VANO 21	12.00	13.00	853.63	227.45	1162.21	852.42	24.51	6.01	5900.00	0.0041	0.92	3.46	24.48	6.00	5900.00	0.0041	4.72	5.36	9.04	10.50	9.04	10.50
VANO 21	13.20	14.00	755.10	237.78	1162.23	795.61	21.68	5.31	5900.00	0.0041	0.97	3.14	22.85	5.60	5900.00	0.0041	4.72	5.16	9.04	10.50	9.04	10.50
VANO 21	14.40	15.00	657.62	248.11	1164.98	709.15	18.88	4.63	5900.00	0.0041	1.01	2.82	20.36	4.99	5900.00	0.0041	4.73	4.86	9.04	10.50	9.04	10.50
VANO 21	14.40	16.00	640.68	248.11	1164.98	692.21	18.40	4.51	5900.00	0.0041	1.01	2.76	19.88	4.87	5900.00	0.0041	4.73	4.80	9.04	10.50	9.04	10.50
VANO 21	15.60	17.00	544.28	258.43	1169.74	605.67	15.63	3.83	5900.00	0.0041	1.05	2.44	17.39	4.26	5900.00	0.0041	4.75	4.50	9.04	10.50	9.04	10.50
VANO 21	16.80	18.00	448.99	268.76	1176.50	519.08	12.89	3.16	5900.00	0.0041	1.09	2.12	14.91	3.65	5900.00	0.0041	4.78	4.21	9.04	10.50	9.04	10.50
VANO 21	18.00	19.00	354.85	279.09	1188.15	432.44	10.19	2.50	5900.00	0.0041	1.13	1.81	12.42	3.04	5900.00	0.0041	4.82	3.93	9.04	10.50	9.04	10.50
VANO 21	19.20	20.00	390.69	368.44	1206.84	345.75	11.22	2.75	5900.00	0.0041	1.50	2.12	9.93	2.43	5900.00	0.0041	4.90	3.67	9.04	10.50	9.04	10.50
VANO 21	19.20	21.00	390.69	368.44	1206.84	345.75	11.22	2.75	5900.00	0.0041	1.50	2.12	9.93	2.43	5900.00	0.0041	4.90	3.67	9.04	10.50	9.04	10.50
VANO 21	20.40	22.00	468.48	375.14	1236.59	259.02	13.43	3.30	5900.00	0.0041	1.52	2.41	7.44	1.82	5900.00	0.0041	5.02	3.42	9.04	10.50	9.04	10.50
VANO 21	21.60	23.00	550.77	397.31	1268.51	172.27	15.82	3.87	5900.00	0.0041	1.61	2.74	4.95	1.21	5900.00	0.0041	5.15	3.18	9.04	10.50	9.04	10.50
VANO 21	22.80	24.00	634.38	419.76	1302.59	85.51	18.22	4.46	5900.00	0.0041	1.70	3.08	2.46	0.60	5900.00	0.0041	5.29	2.94	9.04	10.50	9.04	10.50
VANO 21	24.00	25.00	311.70	330.72	1338.84	3.64	8.93	2.19	5900.00	0.0041	1.34	1.77	0.10	0.03	5900.00	0.0041	5.43	2.73	9.04	10.50	9.04	10.50
VANO 21	24.00	26.00	311.70	330.72	1338.84	3.64	8.93	2.19	5900.00	0.0041	1.34	1.77	0.10	0.03	5900.00	0.0041	5.43	2.73	9.04	10.50	9.04	10.50
VANO 21	25.20	27.00	635.47	341.05	1377.24	87.22	18.23	4.47	5900.00	0.0041	1.38	2.93	2.50	0.61	5900.00	0.0041	5.59	3.10	9.04	10.50	9.04	10.50
VANO 21	26.40	28.00	552.24	361.32	1417.80	173.08	15.83	3.89	5900.00	0.0041	1.47	2.68	4.97	1.22	5900.00	0.0041	5.76	3.49	9.04	10.50	9.04	10.50
VANO 21	27.60	29.00	470.33	383.04	1460.53	258.91	13.5	3.31	5900.00	0.0041	1.55	2.43	7.43	1.82	5900.00	0.0041	5.93	3.88	9.04	10.50	9.04	10.50
VANO 21	28.80	30.00	390.28	372.03	1505.42	344.70	11.21	2.75	5900.00	0.0041	1.51	2.13	9.90	2.43	5900.00	0.0041	6.11	4.27	9.04	10.50	9.04	10.50
VANO 21	28.80	31.00	390.28	372.03	1505.42	344.70	11.2	2.75	5900.00	0.0041	1.51	2.13	9.90	2.43	5900.00	0.0041	6.11	4.27	9.04	10.50	9.04	10.50
VANO 21	30.00	32.00	355.65	560.21	1552.46	430.46	10.2	2.50	5900.00	0.0041	2.27	2.39	12.36	3.03	5900.00	0.0041	6.30	4.67	9.04	10.50	9.04	10.50
VANO 21	31.20	33.00	450.15	584.33	1601.57	516.16	12.91	3.17	5900.00	0.0041	2.37	2.77	14.82	3.63	5900.00	0.0041	6.50	5.07	9.04	10.50	9.04	10.50
VANO 21	32.40	34.00	545.77	608.68	1652.62	601.80	15.67	3.84	5900.00	0.0041	2.47	3.16	17.28	4.23	5900.00	0.0041	6.71	5.47	9.04	10.50	9.04	10.50
VANO 21	33.60	35.00	642.48	633.26	1705.63	687.38	18.45	4.52	5900.00	0.0041	2.57	3.55	19.74	4.84	5900.00	0.0041	6.92	5.88	9.04	10.50	9.04	10.50
VANO 21	33.60	36.00	642.48	633.26	1705.63	687.38	18.45	4.52	5900.00	0.0041	2.57	3.55	19.74	4.84	5900.00	0.0041	6.92	5.88	9.04	10.50	9.04	10.50
VANO 21	34.80	37.00	740.26	658.07	1760.59	772.87	21.26	5.21	5900.00	0.0041	2.67	3.94	22.19	5.44	5900.00	0.0041	7.15	6.29	9.04	10.50	9.04	10.50
VANO 21	36.00	38.00	839.06	683.11	1817.51	858.28	24.09	5.90	5900.00	0.0041	2.77	4.34	24.65	6.04	5900.00	0.0041	7.38	6.71	9.04	10.50	9.04	10.50
VANO 21	37.20	39.00	938.84	708.38	1876.37	943.60	26.96	6.60	5900.00	0.0041	2.88	4.74	27.10	6.64	5900.00	0.0041	7.62	7.13	9.04	10.50	9.04	10.50
VANO 21	38.40	40.00	1039.57	733.88	1937.19	1028.81	29.85	7.31	5900.00	0.0041	2.98	5.15	29.54	7.24	5900.00	0.0041	7.86	7.55	9.04	10.50	9.04	10.50
VANO 21	38.40	41.00	1039.57	733.88	1937.19	1028.81	29.85	7.31	5900.00	0.0041	2.98	5.15	29.54	7.24	5900.00	0.0041	7.86	7.55	9.04	10.50	9.04	10.50
VANO 21	39.60	42.00	1141.20	759.61	1999.96	1113.92	32.77	8.03	5900.00	0.0041	3.08	5.56	31.99	7.84	5900.00	0.0041	8.12	7.98	9.04	10.50	9.04	10.50
VANO 21	40.80	43.00	1243.68	785.57	2064.68	1198.92	35.71	8.75	5900.00	0.0041	3.19	5.97	34.43	8.43	5900.00	0.0041	8.38	8.41	9.04	10.50	9.04	10.50
VANO 21	42.00	44.00	1346.97	811.75	2131.38	1283.80	38.68	9.48	5900.00	0.0041	3.30	6.39	36.86	9.03	5900.00	0.0041	8.65	8.84	9.04	10.50	9.04	10.50
VANO 21	43.20	45.00	1451.01	838.17	2199.98	1368.55	41.63	10.21	5900.00	0.0041	3.40	6.81	39.30	9.63	5900.00	0.0041	8.93	9.28	9.04	10.50	9.28	10.50
VANO 21	43.20	46.00	1451.01	838.17	2199.98	1368.55	41.63	10.21	5900.00	0.0041	3.40	6.81	39.30	9.63	5900.00	0.0041	8.93	9.28	9.04	10.50	9.28	10.50
VANO 21	44.40	47.00	1555.74	864.82	2270.56	1453.17	44.63	10.95	5900.00	0.0041	3.51	7.23	41.73	10.22	5900.00	0.0041	9.22	9.72	9.04	10.50	9.72	10.50
VANO 21	45.60	48.00	1661.12	891.69	2343.09	1537.67	47.70	11.69	5900.00	0.0041	3.62	7.65	44.15	10.82	5900.00	0.0041	9.51	10.16	9.04	10.50	10.16	10.50
VANO 21	46.80	49.00	1767.08	918.80	2417.58	1622.02	50.74	12.43	5900.00	0.0041	3.73	8.08	46.58	11.41	5900.00	0.0041	9.81	10.61	9.04	10.50	10.61	10.61
VANO 22	0.00	1.00	2209.25	452.93	1436.54	1777.55	63.44	15.54	5900.00	0.0041	1.84	8.69	51.04	12.51	5900.00	0.0041	5.83	9.17	9.04	10.50	9.17	10.50
VANO 22	0.98	2.00	1775.04	461.26	1424.01	1708.04	50.97	12.49	5900.00	0.0041	1.87	7.18	49.05	12.02	5900.00	0.0041	5.78	8.90	9.04	10.50	9.04	10.50
VANO 22	1.95	3.00	1688.21	469.59	1413.15	1638.41	48.48	11.88	5900.00	0.0041	1.91	6.89	47.05	11.53	5900.00	0.0041	5.74	8.63	9.04	10.50	9.04	10.50
VANO 22	2.93	4.00	1601.72	477.91	1403.95	1568.67	45.99	11.27	5900.00	0.0041	1.94	6.60	45.04	11.04	5900.00	0.0041	5.70	8.37	9.04	10.50	9.04	10.50
VANO 22	3.90	5.00	1515.59	486.24	1396.44	1498.82	43.52	10.66	5900.00	0.0041	1.97	6.32	43.04	10.54	5900.00	0.0041	5.67	8.11	9.04	10.50	9.04	10.50
VANO 22	3.90	6.00	1515.59	486.24	1396.44	1498.82	43.52	10.66	5900.00	0.0041	1.97	6.32	43.04	10.54	5900.00	0.0041	5.67	8.11	9.04	10.50	9.04	10.50
VANO 22	4.88	7.00	1429.87	494.57	1392.92	1428.85	41.06	10.06	5900.00	0.0041	2.01	6.03	41.03	10.05	5900.00	0.0041	5.65	7.85	9.04	10.50	9.04	10.50
VANO 22	5.85	8.00	1344.58	502.90	1391.06	1358.78	38.61	9.46	5900.00	0.0041	2.04	5.75	39.02	9.56	5900.00	0.0041	5.65	7.60	9.04	10.50	9.04	10.50
VANO 22	6.83	9.00	1259.74	511.23	1390.86	1288.59	36.17	8.86	5900.00	0.0041	2.08	5.47	37.00	9.07	5900.00	0.0041	5.65	7.36	9.04	10.50	9.04	10.50
VANO 22	7.80	10.00	1175.38	519.55	1392.33	1218.29	33.75	8.27	5900.00	0.0041	2.11	5.19	34.98	8.57	5900.00	0.0041	5.65	7.11	9.04	10.50	9.04	10.50
VANO 22	7.80	11.00	1175.38	519.55	1392.33	1218.29	33.75	8.27	5900.00	0.0041	2.11	5.19	34.98	8.57	5900.00	0.0041	5.65	7.11	9.04	10.50	9.04	10.50
VANO 22	8.78	12.00	1091.54	527.88	1405.78	1147.89	31.34	7.68	5900.00	0.0041	2.14	4.91	32.96	8.08	5900.00	0.0041	5.71	6.89	9.04	10.50	9.04	10.50
VANO 22	9.75	13.00	1008.29	536.21	1421.79	1077.40	28.95	7.09	5900.00	0.0041	2.18	4.64	30.94	7.58	5900.00	0.0041	5.77	6.68	9.04	10.50	9.04	10.50
VANO 22	10.73	14.00	925.80	544.54	1439.61	1006.92	26.58	6.51	5900.00	0.0041	2.21	4.36	28.91	7.08	5900.00	0.0041	5.84	6.46	9.04	10.50	9.04	10.50
VANO 22	11.70	15.00	844.11	552.87	1459.23	936.43	24.24	5.94	5900.00	0.0041	2.24	4.09	26.89	6.59	5900.00	0.0041	5.92	6.26	9.04	10.50	9.04	10.50
VANO 22	11.70	16.00	844.11	552.87	1459.23	936.43	24.24	5.94	5900.00	0.0041	2.24	4.09	26.89	6.59	5900.00	0.0041	5.92	6.26	9.04	10.50	9.04	10.50
VANO 22	12.68	17.00	763.24	561.19	1480.65	865.94	21.92	5.37	5900.00	0.0041	2.28	3.82	24.87	6.09	5900.00	0.0041	6.01	6.05	9.04	10.50	9.04	10.50
VANO 22	13.65	18.00	683.20	574.55	1503.89	795.46	19.62	4.81	5900.00	0.0041	2.33	3.57	22.84	5.60	5900.00	0.0041	6.10	5.85	9.04	10.50	9.04	10.50
VANO 22	14.63	19.00	604.03	593.27	1528.92	724.97	17.34	4.25	5900.00	0.0041	2.41	3.33	20.82	5.10	5900.00	0.0041	6.21	5.65	9.04	10.50	9.04	10.50
VANO 22	15.60	20.00	525.73	611.77	1555.77	654.50	15.10	3.70	5900.00	0.0041	2.48	3.09	18.79	4.60	5900.00	0.0041	6.32	5.46	9.04	10.50	9.04	10.50
VANO 22	15.60	21.00	525.73	611.77	1555.77	654.50	15.10	3.70	5900.00	0.0041	2.48	3.09	18.79	4.60	5900.00	0.0041	6.32	5.46	9.04	10.50	9.04	10.50
VANO 22	16.58	22.00	448.34	630.03	1584.42	584.03	12.87	3.15	5900.00	0.0041	2.56	2.86	16.77	4.11	5900.00	0.0041	6.43	5.27	9.04	10.50	9.04	10.50
VANO 22	17.55	23.00	371.88	648.06	1614.88	513.57	10.68	2.62	5900.00	0.0041	2.63	2.62	14.75	3.61	5900.00	0.0041	6.56	5.08	9.04	10.50	9.04	10.50
VANO 22	18.53	24.00	296.35	665.86	1647.15	443.12	8.51	2.08	5900.00	0.0041	2.70	2.39	12.72	3.12	5900.00	0.0041	6.69	4.90	9.04	10.50	9.04	10.50
VANO 22	19.50	25.00	323.80	746.69	1681.22	372.69	9.30	2.28	5900.00	0.0041	3.03	2.65	10.70	2.62	5900.00	0.0041	6.82	4.72	9.04	10.50	9.04	10.50
VANO 22	19.50	26.00	323.80	746.69	1681.22	372.69	9.30	2.28	5900.00	0.0041	3.03	2.65	10.70	2.62	5900.00	0.0041	6.82	4.72	9.04	10.50	9.04	10.50
VANO 22	20.48	27.00	386.36	744.04	1717.09	302.27	11.09	2.72	5900.00	0.0041	3.02	2.87	8.68	2.13	5900.00	0.0041	6.97	4.55	9.04	10.50	9.04	10.50
VANO 22	21.45	28.00	451.29	750.66	1754.78	231.87	12.96	3.17	5900.00	0.0041	3.05	3.11	6.66	1.63	5900.00	0.0041	7.12	4.38	9.04	10.50	9.04	10.50
VANO 22	22.43	29.00	351.06	734.72	1794.27	161.49	10.08	2.47	5900.00	0.0041	2.98	2.73	4.64	1.14	5900.00	0.0041	7.28	4.21	9.04	10.50	9.04	10.50
VANO 22	23.40	30.00	703.55	751.35	1835.57	91.13	20.20	4.95	5900.00	0.0041	3.05	4.00	2.62	0.64	5900.00	0.0041	7.45	4.05	9.04	10.50	9.04	10.50
VANO 22	23.40	31.00	686.61	751.35	1835.57	74.19	19.72	4.83	5900.00	0.0041	3.05	3.94	2.13	0.52	5900.00	0.0041	7.45	3.99	9.04	10.50	9.04	10.50
VANO 22	24.38	32.00	617.19	767.75	1878.67	14.17	17.72	4.34	5900.00	0.0041	3.12	3.73	0.41	0.10	5900.00	0.0041	7.63	3.86	9.04	10.50	9.04	10.50
VANO 22	25.35	33.00	550.16	783.92	1923.58	65.66	15.80	3.87	5900.00	0.0041	3.18	3.53	1.89	0.46	5900.00	0.0041	7.81	4.14	9.04	10.50	9.04	10.50
VANO 22	26.33	34.00	486.82	705.22	1970.30	135.20	13.98	3.42	5900.00	0.0041	2.86	3.14	3.88	0.95	5900.00	0.0041	8.00	4.47	9.04	10.50	9.04	10.50
VANO 22	27.30	35.00	425.53	717.40	2018.82	204.71	12.22	2.99	5900.00	0.0041	2.91	2.95	5.88	1.44	5900.00	0.0041	8.19	4.82	9.04	10.50	9.04	10.50
VANO 22	27.30	36.00	425.53	717.40	2018.82	204.71	12.22	2.99	5900.00	0.0041	2.91	2.95	5.88	1.44	5900.00	0.0041	8.19	4.82	9.04	10.50	9.04	10.50
VANO 22	28.28	37.00	364.89	729.38	2069.15	274.19	10.48	2.57	5900.00	0.0041	2.96	2.76	7.87	1.93	5900.00	0.0041	8.40	5.16	9.04	10.50	9.04	10.50
VANO 22	29.25	38.00	304.91	741.17	2121.29	343.63	8.76	2.15	5900.00	0.0041	3.01	2.58	9.87	2.42	5900.00	0.0041	8.61	5.51	9.04	10.50	9.04	10.50
VANO 22	30.23	39.00	350.29	1002.05	2175.22	413.02	10.06	2.46	5900.00	0.0041	4.07	3.27	11.86	2.91	5900.00	0.0041	8.83	5.87	9.04	10.50	9.04	10.50
VANO 22	31.20	40.00	429.93	1023.59	2230.85	482.37	12.35	3.02	5900.00	0.0041	4.15	3.59	13.85	3.39	5900.00	0.0041	9.06	6.22	9.04	10.50	9.04	10.50
VANO 22	31.20	41.00	429.93	1023.59	2230.85	482.37	12.35	3.02	5900.00	0.0041	4.15	3.59	13.85	3.39	5900.00	0.0041	9.06	6.22	9.04	10.50	9.04	10.50
VANO 22	32.18	42.00	510.60	1045.32	2288.11	551.68	14.66	3.59	5900.00	0.0041	4.24	3.92	15.84	3.88	5900.00	0.0041	9.29	6.58	9.04	10.50	9.04	10.50
VANO 22	33.15	43.00	592.29	1067.25	2347.00	620.93	17.01	4.17	5900.00	0.0041	4.33	4.25	17.83	4.37	5900.00	0.0041	9.53	6.95	9.04	10.50	9.04	10.50
VANO 22	34.13	44.00	675.00	1089.36	2407.53	690.13	19.38	4.75	5900.00	0.0041	4.42	4.59	19.82	4.86	5900.00	0.0041	9.77	7.31	9.04	10.50	9.04	10.50
VANO 22	35.10	45.00	758.73	1111.67	2469.70	759.28	21.79	5.34	5900.00	0.0041	4.51	4.93	21.80	5.34	5900.00	0.0041	10.03	7.68	9.04	10.50	9.04	10.50
VANO 22	35.10	46.00	982.91	1111.67	2469.70	983.47	28.22	6.92	5900.00	0.0041	4.51	5.71	28.24	6.92	5900.00	0.0041	10.03	8.47	9.04	10.50	9.04	10.50
VANO 22	36.08	47.00	1067.66	1134.16	2533.50	1052.55	30.66	7.51	5900.00	0.0041	4.60	6.06	30.22	7.40	5900.00	0.0041	10.28	8.84	9.04	10.50	9.04	10.50
VANO 22	37.05	48.00	1153.42	1156.85	2598.94	1121.58	33.12	8.11	5900.00	0.0041	4.70	6.41	32.21	7.89	5900.00	0.0041	10.55	9.22	9.04	10.50	9.22	10.50
VANO 22	38.03	49.00	1240.19	1179.72	2666.13	1190.57	35.61	8.73	5900.00	0.0041	4.79	6.76	34.19	8.38	5900.00	0.0041	10.82	9.60	9.04	10.50	9.60	10.50

Armado de losa inferior

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 3 PILA
I	20.008	24.9667
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S5)=	1.65
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.082
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Vd con	Hipótesis max torsor Td max	Td con	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	FLEXIÓN TRANS As int	As ext	As int
VANO 1	0.00	1.00	1536.07	865.68	2251.04	1061.72	126.65	31.03	5900.00	0.0041	3.51	17.27	87.54	21.45	5900.00	0.0041	9.15	15.30	14.77	11.83	17.27	17.27
VANO 1	0.98	2.00	1122.11	842.66	2181.96	992.87	92.52	22.67	5900.00	0.0041	3.42	13.04	81.86	20.06	5900.00	0.0041	8.87	14.46	14.77	11.83	14.77	14.46
VANO 1	1.95	3.00	1035.33	819.83	2116.53	923.74	85.36	20.91	5900.00	0.0041	3.33	12.12	76.16	18.66	5900.00	0.0041	8.59	13.63	14.77	11.83	14.77	13.63
VANO 1	2.93	4.00	949.57	797.20	2050.89	854.71	78.29	19.18	5900.00	0.0041	3.24	11.21	70.47	17.27	5900.00	0.0041	8.33	12.80	14.77	11.83	14.77	12.80
VANO 1	3.90	5.00	864.82	774.77	1986.92	785.62	71.31	17.47	5900.00	0.0041	3.14	10.31	64.78	15.87	5900.00	0.0041	8.07	11.97	14.77	11.83	14.77	11.97
VANO 1	3.90	6.00	864.82	774.77	1986.92	785.62	71.31	17.47	5900.00	0.0041	3.14	10.31	64.78	15.87	5900.00	0.0041	8.07	11.97	14.77	11.83	14.77	11.97
VANO 1	4.88	7.00	781.09	752.53	1924.64	716.47	64.40	15.78	5900.00	0.0041	3.05	9.42	59.07	14.47	5900.00	0.0041	7.81	11.14	14.77	11.83	14.77	11.83
VANO 1	5.85	8.00	698.39	730.48	1864.03	647.26	57.58	14.11	5900.00	0.0041	2.97	8.54	53.37	13.08	5900.00	0.0041	7.57	10.32	14.77	11.83	14.77	11.83
VANO 1	6.83	9.00	616.71	708.64	1805.11	578.00	50.85	12.46	5900.00	0.0041	2.88	7.67	47.66	11.68	5900.00	0.0041	7.33	9.50	14.77	11.83	14.77	11.83
VANO 1	7.80	10.00	536.05	686.98	1745.86	508.70	44.20	10.83	5900.00	0.0041	2.79	6.81	41.94	10.28	5900.00	0.0041	7.09	8.69	14.77	11.83	14.77	11.83
VANO 1	7.80	11.00	536.05	686.98	1745.86	508.70	44.20	10.83	5900.00	0.0041	2.79	6.81	41.94	10.28	5900.00	0.0041	7.09	8.69	14.77	11.83	14.77	11.83
VANO 1	8.78	12.00	456.41	665.53	1690.30	439.34	37.63	9.22	5900.00	0.0041	2.70	5.96	36.22	8.87	5900.00	0.0041	6.87	7.87	14.77	11.83	14.77	11.83
VANO 1	9.75	13.00	377.80	644.15	1634.47	369.94	31.15	7.63	5900.00	0.0041	2.61	5.12	30.50	7.47	5900.00	0.0041	6.65	7.06	14.77	11.83	14.77	11.83
VANO 1	10.73	14.00	320.20	406.97	1586.49	300.50	26.40	6.47	5900.00	0.0041	1.65	4.06	24.78	6.07	5900.00	0.0041	6.44	6.26	14.77	11.83	14.77	11.83
VANO 1	11.70	15.00	380.86	394.96	1536.36	231.02	31.40	7.69	5900.00	0.0041	1.60	4.65	19.05	4.67	5900.00	0.0041	6.24	5.45	14.77	11.83	14.77	11.83
VANO 1	11.70	16.00	397.80	394.96	1536.36	214.08	32.80	8.04	5900.00	0.0041	1.60	4.82	17.65	4.32	5900.00	0.0041	6.24	5.28	14.77	11.83	14.77	11.83
VANO 1	12.68	17.00	459.12	382.76	1488.09	144.57	37.85	9.27	5900.00	0.0041	1.55	5.41	11.92	2.92	5900.00	0.0041	6.04	4.48	14.77	11.83	14.77	11.83
VANO 1	13.65	18.00	522.90	446.83	1441.68	75.02	43.11	10.56	5900.00	0.0041	1.81	6.19	6.19	1.52	5900.00	0.0041	5.85	3.68	14.77	11.83	14.77	11.83
VANO 1	14.63	19.00	589.95	430.65	1395.12	5.44	48.64	11.92	5900.00	0.0041	1.75	6.83	0.45	0.11	5900.00	0.0041	5.67	2.89	14.77	11.83	14.77	11.83
VANO 1	15.60	20.00	659.46	414.23	1354.41	65.20	54.37	13.32	5900.00	0.0041	1.68	7.50	5.38	1.32	5900.00	0.0041	5.50	3.41	14.77	11.83	14.77	11.83
VANO 1	15.60	21.00	659.46	414.23	1354.41	65.20	54.37	13.32	5900.00	0.0041	1.68	7.50	5.38	1.32	5900.00	0.0041	5.50	3.41	14.77	11.83	14.77	11.83
VANO 1	16.58	22.00	361.92	397.57	1313.56	135.56	29.84	7.31	5900.00	0.0041	1.61	4.46	11.18	2.74	5900.00	0.0041	5.33	4.04	14.77	11.83	14.77	11.83
VANO 1	17.55	23.00	446.47	409.06	1274.57	205.94	36.81	9.02	5900.00	0.0041	1.66	5.34	16.98	4.16	5900.00	0.0041	5.17	4.67	14.77	11.83	14.77	11.83
VANO 1	18.53	24.00	381.57	402.28	1237.43	276.35	31.46	7.71	5900.00	0.0041	1.63	4.67	22.79	5.58	5900.00	0.0041	5.02	5.30	14.77	11.83	14.77	11.83
VANO 1	19.50	25.00	319.75	426.88	1202.15	346.77	26.36	6.46	5900.00	0.0041	1.73	4.10	28.59	7.00	5900.00	0.0041	4.88	5.94	14.77	11.83	14.77	11.83
VANO 1	19.50	26.00	319.75	426.88	1202.15	346.77	26.36	6.46	5900.00	0.0041	1.73	4.10	28.59	7.00	5900.00	0.0041	4.88	5.94	14.77	11.83	14.77	11.83
VANO 1	20.48	27.00	362.87	328.54	1168.72	417.20	29.92	7.33	5900.00	0.0041	1.33	4.33	34.40	8.43	5900.00	0.0041	4.74	6.59	14.77	11.83	14.77	11.83
VANO 1	21.45	28.00	438.44	310.68	1137.15	487.65	36.15	8.86	5900.00	0.0041	1.26	5.06	40.21	9.85	5900.00	0.0041	4.62	7.23	14.77	11.83	14.77	11.83
VANO 1	22.43	29.00	514.94	292.59	1107.43	558.11	42.46	10.40	5900.00	0.0041	1.19	5.79	46.02	11.27	5900.00	0.0041	4.50	7.88	14.77	11.83	14.77	11.83
VANO 1	23.40	30.00	592.37	282.16	1079.57	628.58	48.84	11.97	5900.00	0.0041	1.15	6.56	51.83	12.70	5900.00	0.0041	4.38	8.54	14.77	11.83	14.77	11.83
VANO 1	23.40	31.00	592.37	282.16	1079.57	628.58	48.84	11.97	5900.00	0.0041	1.15	6.56	51.83	12.70	5900.00	0.0041	4.38	8.54	14.77	11.83	14.77	11.83
VANO 1	24.38	32.00	670.70	273.91	1053.57	699.06	55.30	13.55	5900.00	0.0041	1.11	7.33	57.64	14.12	5900.00	0.0041	4.28	9.20	14.77	11.83	14.77	11.83
VANO 1	25.35	33.00	749.92	265.66	1029.42	769.54	61.83	15.15	5900.00	0.0041	1.08	8.11	63.45	15.55	5900.00	0.0041	4.18	9.86	14.77	11.83	14.77	11.83
VANO 1	26.33	34.00	830.00	257.41	1007.12	840.03	68.43	16.77	5900.00	0.0041	1.04	8.91	69.26	16.97	5900.00	0.0041	4.09	10.53	14.77	11.83	14.77	11.83
VANO 1	27.30	35.00	910.92	249.16	986.68	910.52	75.11	18.40	5900.00	0.0041	1.01	9.71	75.07	18.39	5900.00	0.0041	4.01	11.20	14.77	11.83	14.77	11.83
VANO 1	27.30	36.00	910.92	249.16	986.68	910.52	75.11	18.40	5900.00	0.0041	1.01	9.71	75.07	18.39	5900.00	0.0041	4.01	11.20	14.77	11.83	14.77	11.83
VANO 1	28.28	37.00	992.65	240.91	974.77	953.33	81.85	20.05	5900.00	0.0041	0.98	10.52	78.60	19.26	5900.00	0.0041	3.96	11.61	14.77	11.83	14.77	11.83
VANO 1	29.25	38.00	1075.18	232.66	973.55	1020.65	88.65	21.72	5900.00	0.0041	0.94	11.33	84.15	20.62	5900.00	0.0041	3.95	12.28	14.77	11.83	14.77	11.83
VANO 1	30.23	39.00	1158.47	224.41	975.27	1087.46	95.52	23.40	5900.00	0.0041	0.91	12.16	89.66	21.97	5900.00	0.0041	3.96	12.96	14.77	11.83	14.77	12.28
VANO 1	31.20	40.00	1242.36	216.16	977.69	1153.74	102.43	25.10	5900.00	0.0041	0.88	12.99	95.13	23.31	5900.00	0.0041	3.97	13.64	14.77	11.83	14.77	12.96
VANO 1	31.20	41.00	1242.36	216.16	977.69	1153.74	102.43	25.10	5900.00	0.0041	0.88	12.99	95.13	23.31	5900.00	0.0041	3.97	13.64	14.77	11.83	14.77	13.64
VANO 1	32.18	42.00	1326.76	207.91	980.83	1219.50	109.39	26.80	5900.00	0.0041	0.84	13.82	100.55	24.63	5900.00	0.0041	3.98	14.31	14.77	11.83	14.77	13.64
VANO 1	33.15	43.00	1411.64	199.66	985.29	1285.17	116.39	28.52	5900.00	0.0041	0.81	14.66	105.96	25.96	5900.00	0.0041	4.00	14.98	14.77	11.83	14.77	14.31
VANO 1	34.13	44.00	1496.98	191.41	991.19	1350.97	123.43	30.24	5900.00	0.0041	0.78	15.51	111.39	27.29	5900.00	0.0041	4.02	15.66	14.77	11.83	14.98	14.98
VANO 1	35.10	45.00	1582.75	183.16	1029.22	1457.58	130.50	31.97	5900.00	0.0041	0.74	16.36	120.18	29.44	5900.00	0.0041	4.18	16.81	14.77	11.83	15.66	15.66
VANO 1	35.10	46.00	1582.75	183.16	1029.22	1457.58	130.50	31.97	5900.00	0.0041	0.74	16.36	120.18	29.44	5900.00	0.0041	4.18	16.81	14.77	11.83	16.81	16.81
VANO 1	36.08	47.00	1668.91	174.91	1074.33	1526.70	137.60	33.71	5900.00	0.0041	0.71	17.21	125.88	30.84	5900.00	0.0041	4.36	17.60	14.77	11.83	16.81	16.81
VANO 1	37.05	48.00	1755.45	173.02	1122.11	1595.71	144.74	35.46	5900.00	0.0041	0.70	18.08	131.57	32.23	5900.00	0.0041	4.55	18.39	14.77	11.83	17.60	17.60
VANO 1	38.03	49.00	1842.32	186.35	1171.86	1664.60	151.90	37.22	5900.00	0.0041	0.76	18.99	137.25	33.63	5900.00	0.0041	4.75	19.19	14.77	11.83	18.39	18.39
VANO 1	39.00	50.00	2221.04	199.87	1221.18	1733.36	183.13	44.87	5900.00	0.0041	0.81	22.84	142.92	35.02	5900.00	0.0041	4.90	19.99	14.77	11.83	19.19	19.19
VANO 2	0.00	1.00	2356.78	617.61	2013.13	1717.19	194.32	47.61	5900.00	0.0041	2.51	25.06	141.59	34.69	5900.00	0.0041	8.17	21.43	14.77	11.83	22.84	22.84
VANO 2	1.20	2.00	1841.70	590.63	1937.71	1632.96	151.85	37.20	5900.00	0.0041	2.40	19.80	134.64	32.99	5900.00	0.0041	7.86	20.43	14.77	11.83	25.06	25.06
VANO 2	2.40	3.00	1735.66	563.88	1862.19	1548.60	143.11	35.06	5900.00	0.0041	2.29	18.68	127.68	31.28	5900.00	0.0041	7.56	19.42	14.77	11.83	20.43	20.43
VANO 2	3.60	4.00	1630.21	537.37	1790.17	1464.10	134.41	32.93	5900.00	0.0041	2.18	17.56	120.72	29.58	5900.00	0.0041	7.27	18.42	14.77	11.83	19.42	19.42
VANO 2	4.80	5.00	1525.41	511.09	1720.15	1379.46	125.77	30.81	5900.00	0.0041	2.07	16.44	113.74	27.87	5900.00	0.0041	6.98	17.43	14.77	11.83	18.42	18.42
VANO 2	4.80	6.00	1525.41	511.09	1720.15	1379.46	125.77	30.81	5900.00	0.0041	2.07	16.44	113.74	27.87	5900.00	0.0041	6.98	17.43	14.77	11.83	17.43	17.43
VANO 2	6.00	7.00	1421.30	485.04	1652.43	1294.69	117.19	28.71	5900.00	0.0041	1.97	15.34	106.75	26.15	5900.00	0.0041	6.71	16.43	14.77	11.83	17.43	17.43
VANO 2	7.20	8.00	1317.95	459.23	1586.10	1209.80	108.67	26.62	5900.00	0.0041	1.86	14.24	99.75	24.44	5900.00	0.0041	6.44	15.44	14.77	11.83	16.43	16.43
VANO 2	8.40	9.00	1215.41	433.66	1521.88	1124.79	100.21	24.55	5900.00	0.0041	1.76	13.16	92.74	22.72	5900.00	0.0041	6.18	14.45	14.77	11.83	15.44	15.44
VANO 2	9.60	10.00	1113.72	408.32	1459.66	1039.67	91.83	22.50	5900.00	0.0041	1.66	12.08	85.72	21.00	5900.00	0.0041	5.93	13.46	14.77	11.83	14.77	14.45
VANO 2	9.60	11.00	1113.72	408.32	1459.66	1039.67	91.83	22.50	5900.00	0.0041	1.66	12.08	85.72	21.00	5900.00	0.0041	5.93	13.46	14.77	11.83	14.77	13.46
VANO 2	10.80	12.00	1012.94	383.22	1399.23	954.44	83.52	20.46	5900.00	0.0041	1.56	11.01	78.69	19.28	5900.00	0.0041	5.68	12.48	14.77	11.83	14.77	13.46
VANO 2	12.00	13.00	913.11	358.35	1341.21	869.10	75.29	18.45	5900.00	0.0041	1.45	9.95	71.66	17.56	5900.00	0.0041	5.44	11.50	14.77	11.83	14.77	12.48
VANO 2	13.20	14.00	814.27	333.72	1284.59	783.68	67.14	16.45	5900.00	0.0041	1.35	8.90	64.62	15.83	5900.00	0.0041	5.22	10.52	14.77	11.83	14.77	11.83
VANO 2	14.40	15.00	716.46	309.32	1230.36	698.16	59.07	14.47	5900.00	0.0041	1.26	7.86	57.56	14.10	5900.00	0.0041	5.00	9.55	14.77	11.83	14.77	11.83
VANO 2	14.40	16.00	699.51	309.32	1230.36	681.22	57.68	14.13	5900.00	0.0041	1.26	7.69	56.17	13.76	5900.00	0.0041	5.00	9.38	14.77	11.83	14.77	11.83
VANO 2	15.60	17.00	602.77	285.15	1178.54	595.63	49.70	12.18	5900.00	0.0041	1.16	6.67	49.11	12.03	5900.00	0.0041	4.78	8.41	14.77	11.83	14.77	11.83
VANO 2	16.80	18.00	507.13	261.23	1128.31	509.97	41.81	10.24	5900.00	0.0041	1.06	5.65	42.05	10.30	5900.00	0.0041	4.58	7.44	14.77	11.83	14.77	11.83
VANO 2	18.00	19.00	412.61	237.53	1080.09	424.25	34.02	8.34	5900.00	0.0041	0.96	4.65	34.98	8.57	5900.00	0.0041	4.38	6.48	14.77	11.83	14.77	11.83
VANO 2	19.20	20.00	455.14	82.80	1033.57	338.47	37.53	9.19	5900.00	0.0041	0.94	4.77	27.91	6.84	5900.00	0.0041	4.20	5.52	14.77	11.83	14.77	11.83
VANO 2	19.20	21.00	455.14	82.80	1033.57	338.47	37.53	9.19	5900.00	0.0041	0.94	4.77	27.91	6.84	5900.00	0.0041	4.20	5.52	14.77	11.83	14.77	11.83
VANO 2	20.40	22.00	535.31	72.81	990.67	252.66	44.14	10.81	5900.00	0.0041	0.90	5.55	20.83	5.10	5900.00	0.0041	4.02	4.56	14.77	11.83	14.77	11.83
VANO 2	21.60	23.00	617.24	62.83	948.37	166.81	50.89	12.47	5900.00	0.0041	0.86	6.36	13.75	3.37	5900.00	0.0041	3.85	3.61	14.77	11.83	14.77	11.83
VANO 2	22.80	24.00	700.51	52.85	908.93	80.94	57.76	14.15	5900.00	0.0041	0.82	7.18	6.67	1.63	5900.00	0.0041	3.69	2.66	14.77	11.83	14.77	11.83
VANO 2	24.00	25.00	376.61	47.91	871.63	6.27	31.05	7.61	5900.00	0.0041	0.79	3.90	0.52	0.13	5900.00	0.0041	3.54	1.83	14.77	11.83	14.77	11.83
VANO 2	24.00	26.00	376.61	47.91	871.63	6.27	31.05	7.61	5900.00	0.0041	0.79	3.90	0.52	0.13	5900.00	0.0041	3.54	1.83	14.77	11.83	14.77	11.83
VANO 2	25.20	27.00	691.35	100.07	836.53	93.05	57.00	13.97	5900.00	0.0041	0.86	7.19	7.67	1.88	5900.00	0.0041	3.40	2.64	14.77	11.83	14.77	11.83
VANO 2	26.40	28.00	607.79	78.15	814.43	179.84	50.11	12.28	5900.00	0.0041	0.92	6.30	14.83	3.63	5900.00	0.0041	3.31	3.47	14.77	11.83	14.77	11.83
VANO 2	27.60	29.00	525.56	56.53	845.33	263.89	43.33	10.62	5900.00	0.0041	0.93	5.42	21.76	5.33	5900.00	0.0041	3.43	4.38	14.77	11.83	14.77	11.83
VANO 2	28.80	30.00	446.03	67.00	880.23	349.73	36.78	9.01	5900.00	0.0041	0.97	4.64	28.84	7.06	5900.00	0.0041	3.57	5.32	14.77	11.83	14.77	11.83
VANO 2	28.80	31.00	446.03	67.00	880.23	349.73	36.78	9.01	5900.00	0.0041	0.97	4.64	28.84	7.06	5900.00	0.0041	3.57	5.32	14.77	11.83	14.77	11.83
VANO 2	30.00	32.00	420.06	120.77	922.23	435.54	34.63	8.49	5900.00	0.0041	0.99	4.49	35.91	8.80	5900.00	0.0041	3.74	6.27	14.77	11.83	14.77	11.83
VANO 2	31.20	33.00	514.30	143.84	969.13	521.30	42.40	10.39	5900.00	0.0041	0.58	5.49	42.98	10.53	5900.00	0.0041	3.93	7.23	14.77	11.83	14.77	11.83
VANO 2	32.40	34.00	609.68	167.69	1018.5	607.01	50.27	12.32	5900.00	0.0041	0.68	6.50	50.05	12.26	5900.00	0.0041	4.13	8.20	14.77	11.83	14.77	11.83
VANO 2	33.60	35.00	706.18	191.77	1069.92	692.65	58.23	14.27	5900.00	0.0041	0.78	7.52	57.11	13.99	5900.00	0.0041	4.34	9.17	14.77	11.83	14.77	11.83
VANO 2	33.60	36.00	706.18	191.77	1069.92	692.65	58.23	14.27	5900.00	0.0041	0.78	7.52	57.11	13.99	5900.00	0.0041	4.34	9.17	14.77	11.83	14.77	11.83
VANO 2	34.80	37.00	803.77	216.09	1123.32	778.23	66.27	16.24	5900.00	0.0041	0.88	8.56	64.17	15.72	5900.00	0.0041	4.56	10.14	14.77	11.83	14.77	11.83
VANO 2	36.00	38.00	902.40	240.65	1178.74	863.72	74.40	18.23	5900.00	0.0041	0.98	9.60	71.22	17.45	5900.00	0.0041	4.78	11.12	14.77	11.83	14.77	11.83
VANO 2	37.20	39.00	1002.05	265.44	1236.16	949.13	82.62	20.24	5900.00	0.0041	1.08	10.66	78.26	19.17	5900.00	0.0041	5.02	12.10	14.77	11.83	14.77	11.83
VANO 2	38.40	40.00	1102.66	290.46	1295.59	1034.45	90.92	22.27	5900.00	0.0041	1.18	11.73	85.29	20.90	5900.00	0.0041	5.26	13.08	14.77	11.83	14.77	12.10
VANO 2	38.40	41.00	1102.66	290.46	1295.59	1034.45	90.92	22.27	5900.00	0.0041	1.18	11.73	85.29	20.90	5900.00	0.0041	5.26	13.08	14.77	11.83	14.77	13.08
VANO 2	39.60	42.00	1204.20	315.73	1357.02	1119.66	99.29	24.33	5900.00	0.0041	1.28	12.80	92.32	22.62	5900.00	0.0041	5.51	14.06	14.77	11.83	14.77	13.08
VANO 2	40.80	43.00	1306.63	341.22	1420.46	1204.77	107.73	26.39	5900.00	0.0041	1.39	13.89	99.34	24.34	5900.00	0.0041	5.77	15.05	14.77	11.83	14.77	14.06
VANO 2	42.00	44.00	1409.89	366.95	1485.90	1289.78	116.25	28.48	5900.00	0.0041	1.49	14.99	106.34	26.05	5900.00	0.0041	6.03	16.04	14.77	11.83	15.05	15.05
VANO 2	43.20	45.00	1513.93	392.92	1553.36	1374.64	124.83	30.58	5900.00	0.0041	1.59	16.09	113.34	27.77	5900.00	0.0041	6.31	17.04	14.77	11.83	16.04	16.04
VANO 2	43.20	46.00	1513.93	392.92	1553.36	1374.64	124.83	30.58	5900.00	0.0041	1.59	16.09	113.34	27.77	5900.00	0.0041	6.31	17.04	14.77	11.83	17.04	17.04
VANO 2	44.40	47.00	1618.70	419.12	1622.62	1459.39	133.46	32.70	5900.00	0.0041	1.70	17.20	120.33	29.48	5900.00	0.0041	6.59	18.03	14.77	11.83	17.04	17.04
VANO 2	45.60	48.00	1724.14	445.56	1694.25	1544.02	142.18	34.83	5900.00	0.0041	1.81	18.32	127.31	31.19	5900.00	0.0041	6.88	19.03	14.77	11.83	18.03	18.03
VANO 2	46.80	49.00	1830.20	472.23	1767.76	1628.52	150.90	36.97	5900.00	0.0041	1.92	19.44	134.27	32.90	5900.00	0.0041	7.18	20.04	14.77	11.83	19.03	19.03
																					20.04	20.04

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	Variables	
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S5)=	1.65
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.082
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC — **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** — **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 3	0.00	1.00	2355.00	466.74	1897.16	1696.24	194.17	47.57	5900.00	0.0041	1.89	24.73	139.86	34.27	5900.00	0.0041	7.70	20.98	14.77	11.83	24.73	24.73
VANO 3	1.20	2.00	1839.90	440.21	1823.49	1611.91	151.70	37.17	5900.00	0.0041	1.79	19.48	132.91	32.56	5900.00	0.0041	7.40	19.98	14.77	11.83	19.98	19.98
VANO 3	2.40	3.00	1733.86	413.92	1751.02	1527.45	142.96	35.03	5900.00	0.0041	1.68	18.35	125.94	30.86	5900.00	0.0041	7.11	18.98	14.77	11.83	18.98	18.98
VANO 3	3.60	4.00	1628.42	387.86	1680.02	1442.85	134.27	32.90	5900.00	0.0041	1.57	17.23	118.97	29.15	5900.00	0.0041	6.82	17.98	14.77	11.83	17.98	17.98
VANO 3	4.80	5.00	1523.64	362.04	1612.01	1358.13	125.63	30.78	5900.00	0.0041	1.47	16.12	111.98	27.44	5900.00	0.0041	6.54	16.99	14.77	11.83	16.99	16.99
VANO 3	4.80	6.00	1523.64	362.04	1612.01	1358.13	125.63	30.78	5900.00	0.0041	1.47	16.12	111.98	27.44	5900.00	0.0041	6.54	16.99	14.77	11.83	16.99	16.99
VANO 3	6.00	7.00	1419.57	336.45	1545.49	1273.28	117.05	28.68	5900.00	0.0041	1.37	15.02	104.98	25.72	5900.00	0.0041	6.27	16.00	14.77	11.83	16.00	16.00
VANO 3	7.20	8.00	1316.27	311.09	1480.15	1188.31	108.53	26.59	5900.00	0.0041	1.26	13.93	97.98	24.00	5900.00	0.0041	6.01	15.01	14.77	11.83	15.01	15.01
VANO 3	8.40	9.00	1213.78	286.83	1419.26	1103.23	100.08	24.52	5900.00	0.0041	1.16	12.84	90.96	22.29	5900.00	0.0041	5.76	14.02	14.77	11.83	14.77	14.02
VANO 3	9.60	10.00	1112.16	264.36	1361.11	1018.04	91.70	22.47	5900.00	0.0041	1.07	11.77	83.94	20.57	5900.00	0.0041	5.53	13.05	14.77	11.83	14.77	13.05
VANO 3	9.60	11.00	1112.16	264.36	1361.11	1018.04	91.70	22.47	5900.00	0.0041	1.07	11.77	83.94	20.57	5900.00	0.0041	5.53	13.05	14.77	11.83	14.77	13.05
VANO 3	10.80	12.00	1011.44	242.12	1304.15	932.75	83.40	20.43	5900.00	0.0041	0.98	10.71	76.91	18.84	5900.00	0.0041	5.30	12.07	14.77	11.83	14.77	12.07
VANO 3	12.00	13.00	911.67	220.11	1250.77	847.37	75.17	18.42	5900.00	0.0041	0.89	9.65	69.87	17.12	5900.00	0.0041	5.08	11.10	14.77	11.83	14.77	11.83
VANO 3	13.20	14.00	812.90	198.34	1198.58	761.89	67.03	16.42	5900.00	0.0041	0.81	8.61	62.82	15.39	5900.00	0.0041	4.87	10.13	14.77	11.83	14.77	11.83
VANO 3	14.40	15.00	715.16	176.80	1148.37	676.33	58.97	14.45	5900.00	0.0041	0.72	7.58	55.76	13.66	5900.00	0.0041	4.66	9.16	14.77	11.83	14.77	11.83
VANO 3	14.40	16.00	698.21	176.80	1148.37	659.38	57.57	14.10	5900.00	0.0041	0.72	7.41	54.37	13.32	5900.00	0.0041	4.66	8.99	14.77	11.83	14.77	11.83
VANO 3	15.60	17.00	601.53	155.99	1100.64	573.75	49.60	12.15	5900.00	0.0041	0.63	6.39	47.31	11.59	5900.00	0.0041	4.47	8.03	14.77	11.83	14.77	11.83
VANO 3	16.80	18.00	505.95	135.80	1055.29	488.05	41.72	10.22	5900.00	0.0041	0.55	5.39	40.24	9.86	5900.00	0.0041	4.28	7.07	14.77	11.83	14.77	11.83
VANO 3	18.00	19.00	428.34	25.29	1011.53	402.29	35.32	8.65	5900.00	0.0041	0.10	4.38	33.17	8.13	5900.00	0.0041	4.11	6.12	14.77	11.83	14.77	11.83
VANO 3	19.20	20.00	507.44	58.74	974.31	316.48	41.84	10.25	5900.00	0.0041	0.24	5.24	26.09	6.39	5900.00	0.0041	3.95	5.17	14.77	11.83	14.77	11.83
VANO 3	19.20	21.00	507.44	58.74	974.31	316.48	41.84	10.25	5900.00	0.0041	0.24	5.24	26.09	6.39	5900.00	0.0041	3.95	5.17	14.77	11.83	14.77	11.83
VANO 3	20.40	22.00	588.12	79.95	941.67	230.63	48.49	11.88	5900.00	0.0041	0.32	6.10	19.02	4.66	5900.00	0.0041	3.82	4.24	14.77	11.83	14.77	11.83
VANO 3	21.60	23.00	670.11	101.44	924.41	146.30	55.25	13.54	5900.00	0.0041	0.41	6.97	12.06	2.96	5900.00	0.0041	3.75	3.35	14.77	11.83	14.77	11.83
VANO 3	22.80	24.00	753.43	123.22	943.42	59.50	62.12	15.22	5900.00	0.0041	0.50	7.86	4.91	1.20	5900.00	0.0041	3.83	2.52	14.77	11.83	14.77	11.83
VANO 3	24.00	25.00	430.06	145.28	978.19	32.06	35.46	8.69	5900.00	0.0041	0.59	4.64	2.64	0.65	5900.00	0.0041	3.97	2.31	14.77	11.83	14.77	11.83
VANO 3	24.00	26.00	430.06	145.28	978.19	32.06	35.46	8.69	5900.00	0.0041	0.59	4.64	2.64	0.65	5900.00	0.0041	3.97	2.31	14.77	11.83	14.77	11.83
VANO 3	25.20	27.00	691.04	83.74	1015.59	117.97	56.98	13.96	5900.00	0.0041	0.34	7.15	9.73	2.38	5900.00	0.0041	4.12	3.25	14.77	11.83	14.77	11.83
VANO 3	26.40	28.00	607.51	93.48	1055.14	203.88	50.09	12.27	5900.00	0.0041	0.38	6.33	16.81	4.12	5900.00	0.0041	4.28	4.20	14.77	11.83	14.77	11.83
VANO 3	27.60	29.00	525.32	103.23	1096.91	289.78	43.31	10.61	5900.00	0.0041	0.42	5.52	23.89	5.85	5900.00	0.0041	4.45	5.15	14.77	11.83	14.77	11.83
VANO 3	28.80	30.00	444.44	112.97	1140.89	375.65	36.65	8.98	5900.00	0.0041	0.46	4.72	30.97	7.59	5900.00	0.0041	4.63	6.11	14.77	11.83	14.77	11.83
VANO 3	28.80	31.00	444.44	112.97	1140.89	375.65	36.65	8.98	5900.00	0.0041	0.46	4.72	30.97	7.59	5900.00	0.0041	4.63	6.11	14.77	11.83	14.77	11.83
VANO 3	30.00	32.00	473.68	259.78	1187.05	461.48	39.06	9.57	5900.00	0.0041	1.05	5.31	38.05	9.32	5900.00	0.0041	4.82	7.07	14.77	11.83	14.77	11.83
VANO 3	31.20	33.00	567.95	283.28	1235.32	547.27	46.83	11.47	5900.00	0.0041	1.15	6.31	45.12	11.06	5900.00	0.0041	5.01	8.03	14.77	11.83	14.77	11.83
VANO 3	32.40	34.00	663.35	307.02	1285.57	633.01	54.69	13.40	5900.00	0.0041	1.25	7.32	52.19	12.79	5900.00	0.0041	5.22	9.00	14.77	11.83	14.77	11.83
VANO 3	33.60	35.00	759.86	330.99	1337.83	718.69	62.65	15.35	5900.00	0.0041	1.34	8.35	59.26	14.52	5900.00	0.0041	5.43	9.97	14.77	11.83	14.77	11.83
VANO 3	33.60	36.00	759.86	330.99	1337.83	718.69	62.65	15.35	5900.00	0.0041	1.34	8.35	59.26	14.52	5900.00	0.0041	5.43	9.97	14.77	11.83	14.77	11.83
VANO 3	34.80	37.00	857.46	355.19	1392.03	804.29	70.70	17.32	5900.00	0.0041	1.44	9.38	66.32	16.25	5900.00	0.0041	5.65	10.95	14.77	11.83	14.77	11.83
VANO 3	36.00	38.00	956.09	379.62	1448.21	889.82	78.83	19.31	5900.00	0.0041	1.54	10.43	73.37	17.98	5900.00	0.0041	5.88	11.93	14.77	11.83	14.77	11.83
VANO 3	37.20	39.00	1055.74	404.29	1506.41	975.27	87.05	21.33	5900.00	0.0041	1.64	11.48	80.41	19.70	5900.00	0.0041	6.11	12.91	14.77	11.83	14.77	11.93
VANO 3	38.40	40.00	1156.36	429.19	1566.63	1060.62	95.34	23.36	5900.00	0.0041	1.74	12.55	87.45	21.43	5900.00	0.0041	6.36	13.89	14.77	11.83	14.77	12.91
VANO 3	38.40	41.00	1156.36	429.19	1566.63	1060.62	95.34	23.36	5900.00	0.0041	1.74	12.55	87.45	21.43	5900.00	0.0041	6.36	13.89	14.77	11.83	14.77	13.89
VANO 3	39.60	42.00	1257.90	454.32	1628.83	1145.87	103.72	25.41	5900.00	0.0041	1.84	13.63	94.48	23.15	5900.00	0.0041	6.61	14.88	14.77	11.83	14.77	13.89
VANO 3	40.80	43.00	1360.33	479.69	1692.93	1231.02	112.16	27.48	5900.00	0.0041	1.95	14.71	101.50	24.87	5900.00	0.0041	6.87	15.87	14.77	11.83	14.88	14.88
VANO 3	42.00	44.00	1463.60	505.28	1759.11	1316.05	120.68	29.57	5900.00	0.0041	2.05	15.81	108.51	26.59	5900.00	0.0041	7.14	16.86	14.77	11.83	15.87	15.87
VANO 3	43.20	45.00	1567.65	531.11	1827.21	1400.98	129.26	31.67	5900.00	0.0041	2.16	16.91	115.51	28.30	5900.00	0.0041	7.42	17.86	14.77	11.83	16.86	16.86
VANO 3	43.20	46.00	1567.65	531.11	1827.21	1400.98	129.26	31.67	5900.00	0.0041	2.16	16.91	115.51	28.30	5900.00	0.0041	7.42	17.86	14.77	11.83	17.86	17.86
VANO 3	44.40	47.00	1672.44	557.17	1897.37	1485.78	137.90	33.78	5900.00	0.0041	2.26	18.02	122.50	30.01	5900.00	0.0041	7.70	18.86	14.77	11.83	17.86	17.86
VANO 3	45.60	48.00	1777.91	583.47	1969.43	1570.45	146.59	35.92	5900.00	0.0041	2.37	19.14	129.49	31.72	5900.00	0.0041	7.99	19.86	14.77	11.83	18.86	18.86
VANO 3	46.80	49.00	1884.01	609.99	2043.57	1655.00	155.34	38.06	5900.00	0.0041	2.48	20.27	136.46	33.43	5900.00	0.0041	8.30	20.86	14.77	11.83	19.86	19.86
VANO 3	48.00	50.00	2396.20	636.75	2119.61	1739.41	197.82	48.47	5900.00	0.0041	2.58	25.53	143.42	35.14	5900.00	0.0041	8.60	21.87	14.77	11.83	20.86	20.86
VANO 4	0.00	1.00	2490.73	631.03	2164.97	1815.11	205.36	50.31	5900.00	0.0041	2.56	26.44	149.66	36.67	5900.00	0.0041	8.79	22.73	14.77	11.83	25.53	25.53
VANO 4	1.28	2.00	1995.10	602.55	2083.99	1725.71	164.50	40.30	5900.00	0.0041	2.45	21.37	142.29	34.86	5900.00	0.0041	8.46	21.66	14.77	11.83	21.66	26.44
VANO 4	2.55	3.00	1882.70	574.32	2005.0	1636.17	155.23	38.03	5900.00	0.0041	2.33	20.18	134.91	33.05	5900.00	0.0041	8.14	20.60	14.77	11.83	20.60	21.66
VANO 4	3.83	4.00	1770.91	546.34	1928.25	1546.49	146.01	35.77	5900.00	0.0041	2.22	19.00	127.51	31.24	5900.00	0.0041	7.83	19.53	14.77	11.83	19.53	20.60
VANO 4	5.10	5.00	1659.81	518.61	1853.60	1456.67	136.85	33.53	5900.00	0.0041	2.11	17.82	120.11	29.43	5900.00	0.0041	7.52	18.47	14.77	11.83	18.47	19.53
VANO 4	5.10	6.00	1659.81	518.61	1853.60	1456.67	136.85	33.53	5900.00	0.0041	2.11	17.82	120.11	29.43	5900.00	0.0041	7.52	18.47	14.77	11.83	18.47	18.47
VANO 4	6.38	7.00	1549.46	491.13	1781.10	1366.72	127.76	31.30	5900.00	0.0041	1.99	16.65	112.69	27.61	5900.00	0.0041	7.23	17.42	14.77	11.83	17.42	18.47
VANO 4	7.65	8.00	1439.90	463.93	1710.75	1276.63	118.72	29.09	5900.00	0.0041	1.88	15.49	105.26	25.79	5900.00	0.0041	6.94	16.37	14.77	11.83	16.37	17.42
VANO 4	8.93	9.00	1331.20	437.02	1642.60	1186.42	109.76	26.89	5900.00	0.0041	1.77	14.33	97.82	23.97	5900.00	0.0041	6.67	15.32	14.77	11.83	15.32	16.37
VANO 4	10.20	10.00	1223.40	410.37	1576.59	1096.09	100.87	24.71	5900.00	0.0041	1.67	13.19	90.37	22.14	5900.00	0.0041	6.40	14.27	14.77	11.83	14.77	15.32
VANO 4	10.20	11.00	1223.40	410.37	1576.59	1096.09	100.87	24.71	5900.00	0.0041	1.67	13.19	90.37	22.14	5900.00	0.0041	6.40	14.27	14.77	11.83	14.77	14.27
VANO 4	11.48	12.00	1116.56	383.97	1512.72	1005.65	92.06	22.56	5900.00	0.0041	1.56	12.06	82.92	20.31	5900.00	0.0041	6.14	13.23	14.77	11.83	14.77	14.27
VANO 4	12.75	13.00	1010.73	357.82	1450.98	915.10	83.34	20.42	5900.00	0.0041	1.45	10.93	75.45	18.49	5900.00	0.0041	5.89	12.19	14.77	11.83	14.77	13.23
VANO 4	14.03	14.00	905.94	331.92	1391.30	824.45	74.70	18.30	5900.00	0.0041	1.35	9.82	67.98	16.65	5900.00	0.0041	5.65	11.15	14.77	11.83	14.77	12.19
VANO 4	15.30	15.00	802.23	306.27	1333.92	733.71	66.15	16.21	5900.00	0.0041	1.24	8.72	60.50	14.82	5900.00	0.0041	5.41	10.12	14.77	11.83	14.77	11.83
VANO 4	15.30	16.00	785.29	306.27	1333.92	716.77	64.75	15.86	5900.00	0.0041	1.24	8.55	59.10	14.48	5900.00	0.0041	5.41	9.95	14.77	11.83	14.77	11.83
VANO 4	16.58	17.00	682.71	280.87	1278.58	625.95	56.29	13.79	5900.00	0.0041	1.14	7.47	51.61	12.64	5900.00	0.0041	5.19	8.92	14.77	11.83	14.77	11.83
VANO 4	17.85	18.00	581.29	255.72	1225.41	535.05	47.93	11.74	5900.00	0.0041	1.04	6.39	44.12	10.81	5900.00	0.0041	4.97	7.89	14.77	11.83	14.77	11.83
VANO 4	19.13	19.00	481.07	230.81	1174.36	444.08	39.66	9.72	5900.00	0.0041	0.94	5.33	36.62	8.97	5900.00	0.0041	4.77	6.87	14.77	11.83	14.77	11.83
VANO 4	20.40	20.00	455.81	79.65	1125.44	353.07	37.58	9.21	5900.00	0.0041	0.32	4.77	29.11	7.13	5900.00	0.0041	4.57	5.65	14.77	11.83	14.77	11.83
VANO 4	20.40	21.00	455.81	79.65	1125.44	353.07	37.58	9.21	5900.00	0.0041	0.32	4.77	29.11	7.13	5900.00	0.0041	4.57	5.65	14.77	11.83	14.77	11.83
VANO 4	21.68	22.00	541.45	69.27	1078.70	262.00	44.64	10.94	5900.00	0.0041	0.28	5.61	21.60	5.29	5900.00	0.0041	4.36	4.84	14.77	11.83	14.77	11.83
VANO 4	22.95	23.00	628.50	58.90	1034.30	170.90	51.82	12.70	5900.00	0.0041	0.24	6.47	14.09	3.45	5900.00	0.0041	4.20	3.83	14.77	11.83	14.77	11.83
VANO 4	24.23	24.00	716.97	48.52	992.26	79.78	59.12	14.48	5900.00	0.0041	0.20	7.34	6.58	1.61	5900.00	0.0041	4.03	2.82	14.77	11.83	14.77	11.83
VANO 4	25.50	25.00	424.70	60.28	952.58	28.92	35.02	8.58	5900.00	0.0041	0.24	4.41	2.38	0.58	5900.00	0.0041	3.87	2.23	14.77	11.83	14.77	11.83
VANO 4	25.50	26.00	424.70	60.28	952.58	28.92	35.02	8.58	5900.00	0.0041	0.24	4.41	2.38	0.58	5900.00	0.0041	3.87	2.23	14.77	11.83	14.77	11.83
VANO 4	26.78	27.00	675.10	86.26	923.34	121.02	55.66	13.64	5900.00	0.0041	0.35	6.99	9.98	2.44	5900.00	0.0041	3.75	3.10	14.77	11.83	14.77	11.83
VANO 4	28.05	28.00	586.33	63.24	952.41	210.95	48.34	11.84	5900.00	0.0041	0.26	6.05	17.39	4.26	5900.00	0.0041	3.87	4.06	14.77	11.83	14.77	11.83
VANO 4	29.33	29.00	498.98	41.39	992.68	302.06	41.14	10.08	5900.00	0.0041	0.17	5.12	24.91	6.10	5900.00	0.0041	4.03	5.07	14.77	11.83	14.77	11.83
VANO 4	30.60	30.00	423.44	133.99	1035.31	393.15	34.91	8.55	5900.00	0.0041	0.54	4.55	32.42	7.94	5900.00	0.0041	4.20	6.07	14.77	11.83	14.77	11.83
VANO 4	30.60	31.00	423.44	133.99	1035.31	393.15	34.91	8.55	5900.00	0.0041	0.54	4.55	32.42	7.94	5900.00	0.0041	4.20	6.07	14.77	11.83	14.77	11.83
VANO 4	31.88	32.00	522.17	158.28	1082.51	484.19	43.05	10.55	5900.00	0.0041	0.64	5.60	39.92	9.78	5900.00	0.0041	4.39	7.09	14.77	11.83	14.77	11.83
VANO 4	33.15	33.00	622.13	183.11	1132.12	575.18	51.30	12.57	5900.00	0.0041	0.74	6.66	47.42	11.62	5900.00	0.0041	4.60	8.11	14.77	11.83	14.77	11.83
VANO 4	34.43	34.00	723.29	208.18	1183.87	666.12	59.64	14.61	5900.00	0.0041	0.85	7.73	54.92	13.46	5900.00	0.0041	4.81	9.13	14.77	11.83	14.77	11.83
VANO 4	35.70	35.00	825.63	233.51	1237.75	756.98	68.07	16.68	5900.00	0.0041	0.95	8.81	62.41	15.29	5900.00	0.0041	5.02	10.16	14.77	11.83	14.77	11.83
VANO 4	35.70	36.00	825.63	233.51	1237.75	756.98	68.07	16.68	5900.00	0.0041	0.95	8.81	62.41	15.29	5900.00	0.0041	5.02	10.16	14.77	11.83	14.77	11.83
VANO 4	36.98	37.00	929.11	259.09	1293.77	847.76	76.61	18.77	5900.00	0.0041	1.05	9.91	69.90	17.13	5900.00	0.0041	5.25	11.19	14.77	11.83	14.77	11.83
VANO 4	38.25	38.00	1033.69	284.92	1351.93	938.46	85.23	20.88	5900.00	0.0041	1.16	11.02	77.38	18.96	5900.00	0.0041	5.49	12.22	14.77	11.83	14.77	12.22
VANO 4	39.53	39.00	1139.33	310.99	1412.22	1029.06	93.94	23.02	5900.00	0.0041	1.26	12.14	84.85	20.79	5900.00	0.0041	5.73	13.26	14.77	11.83	14.77	13.26
VANO 4	40.80	40.00	1246.00	337.32	1474.64	1119.57	102.73	25.17	5900.00	0.0041	1.37	13.27	92.31	22.62	5900.00	0.0041	5.99	14.30	14.77	11.83	14.77	14.30
VANO 4	40.80	41.00	1246.00	337.32	1474.64	1119.57	102.73	25.17	5900.00	0.0041	1.37	13.27	92.31	22.62	5900.00	0.0041	5.99	14.30	14.77	11.83	14.77	14.30
VANO 4	42.08	42.00	1353.64	363.90	1539.20	1209.96	111.61	27.34	5900.00	0.0041	1.48	14.41	99.76	24.44	5900.00	0.0041	6.25	15.34	14.77	11.83	15.34	15.34
VANO 4	43.35	43.00	1462.20	390.73	1605.89	1300.23	120.56	29.54	5900.00	0.0041	1.59	15.56	107.21	26.27	5900.00	0.0041	6.52	16.39	14.77	11.83	16.39	16.39
VANO 4	44.63	44.00	1559.90	417.80	1674.72	1388.72	128.62	31.51	5900.00	0.0041	1.70	16.60	114.50	28.05	5900.00	0.0041	6.80	17.43	14.77	11.83	17.43	17.43
VANO 4	45.90	45.00	1664.60	445.13	1745.68	1478.75	137.25	33.63	5900.00	0.0041	1.81	17.72	121.93	29.87	5900.00	0.0041	7.09	18.48	14.77	11.83	18.48	18.48
VANO 4	45.90	46.00	1664.60	445.13	1745.68	1478.75	137.25	33.63	5900.00	0.0041	1.81	17.72	121.93	29.87	5900.00	0.0041	7.09	18.48	14.77	11.83	18.48	18.48
VANO 4	47.18	47.00	1775.63	472.71	1818.78	1568.65	146.40	35.87	5900.00	0.0041	1.92	18.89	129.34	31.69	5900.00	0.0041	7.38	19.54	14.77	11.83	19.54	19.54
VANO 4	48.48	48.00	1887.37	500.54	1894.02	1658.41	155.62	38.13	5900.00	0.0041	2.03	20.08	136.74	33.50	5900.00	0.0041	7.69	20.59	14.77	11.83	20.59	20.59
VANO 4	49.73	49.00	1999.76	528.62	1971.38	1748.03	164.88	40.40	5900.00	0.0041	2.15	21.27	144.13	35.31	5900.00	0.0041	8.00	21.66	14.77	11.83	21.66	21.66

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 3 PILA
I	20 008	24 9687
ys	1 495	1 754
yi	2 505	2 246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28 5	28 5	28.5
% TESADO	0 8	0.75	75%
% PERDIDA	0.16	0 2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S5)=	1.65
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.082
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC | **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** | **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 5	0.00	1 00	2471 64	701.27	2252 71	1844.60	203.79	49 93	5900.00	0.0041	2.85	26.39	152.09	37.26	5900.00	0.0041	9.14	23.20	14.77	11.83	26.39	26.39
VANO 5	1.28	2 00	1976 01	672 69	2172 25	1755.13	162.93	39.92	5900.00	0.0041	2.73	21.32	144.71	35.45	5900.00	0.0041	8.82	22.14	14.77	11.83	22.14	22.14
VANO 5	2.55	3 00	1863.62	644.35	2093 91	1655.51	153.66	37.65	5900.00	0.0041	2.62	20.13	137.32	33.64	5900.00	0.0041	8.50	21.07	14.77	11.83	21.07	21.07
VANO 5	3.83	4 00	1762 93	616.27	2017 89	1575.76	145.36	35.61	5900.00	0.0041	2.50	19.06	129.92	31 83	5900.00	0.0041	8.19	20.01	14.77	11.83	20.01	20.01
VANO 5	5.10	5.00	1665 21	588.45	1943 60	1485.86	137 30	33.64	5900.00	0.0041	2.39	18.01	122.51	30.02	5900.00	0 0041	7.89	18.95	14.77	11.83	18.95	18.95
VANO 5	5.10	6 00	1665 21	588.45	1943 60	1485.86	137 30	33.64	5900.00	0.0041	2.39	18.01	122 51	30.02	5900.00	0 0041	7.89	18.95	14.77	11.83	18.95	18.95
VANO 5	6.38	7 00	1568 26	560 93	1871 69	1395.84	129 31	31 68	5900.00	0.0041	2 28	16.98	115 09	28.20	5900.00	0.0041	7.60	17.90	14.77	11.83	17.90	17.90
VANO 5	7.65	8.00	1470 56	533.67	1801 90	1307.36	121 25	29.71	5900.00	0.0041	2.17	15 94	107.79	26.41	5900.00	0.0041	7.31	16.86	14.77	11.83	16.86	16.86
VANO 5	8.93	9 00	1361.99	506.65	1734 23	1217.08	112 30	27 51	5900.00	0.0041	2.06	14 78	100.35	24 59	5900.00	0.0041	7.04	15.81	14.77	11.83	15.81	15.81
VANO 5	10.20	10.00	1254 35	479 88	1668 67	1126.70	103.42	25.34	5900 00	0.0041	1.95	13.64	92.90	22.76	5900.00	0.0041	6.77	14.77	14.77	11.83	14.77	14.77
VANO 5	10.20	11.00	1254.35	479 88	1668 67	1126.70	103.42	25.34	5900 00	0.0041	1.95	13 64	92.90	22.76	5900.00	0.0041	6.77	14.77	14.77	11.83	14.77	14.77
VANO 5	11.48	12.00	1147 68	452.96	1604 83	1036.20	94 63	23.18	5900 00	0.0041	1.84	12.51	85.44	20.93	5900.00	0.0041	6.51	13.72	14.77	11.83	14.77	13.72
VANO 5	12.75	13.00	1042.03	426 60	1543 44	945.60	85 92	21 05	5900.00	0.0041	1.73	11 39	77 97	19.10	5900.00	0.0041	6.27	12.68	14.77	11.83	14.77	12.68
VANO 5	14.03	14 00	937 44	400 50	1484 16	854 91	77 29	18.94	5900 00	0.0041	1.63	10.28	70.49	17.27	5900.00	0.0041	6.02	11.65	14.77	11.83	14.77	11.83
VANO 5	15.30	15 00	833 95	374.65	1427 00	764 13	68.76	16 85	5900.00	0.0041	1.52	9.18	63.00	15.44	5900.00	0.0041	5.79	10.61	14.77	11.83	14.77	11.83
VANO 5	15.30	16.00	817.01	374.65	1427 00	747.19	67.36	16 50	5900.00	0.0041	1.52	9 01	61 61	15.09	5900.00	0.0041	5.79	10.44	14.77	11.83	14.77	11.83
VANO 5	16.58	17 00	714 66	349 04	1371 95	656.33	58.92	14.44	5900.00	0.0041	1.42	7 93	54.12	13.26	5900.00	0.0041	5.57	9.41	14.77	11.83	14.77	11.83
VANO 5	17.85	18.00	613.48	323 69	1319 03	565.40	50.58	12.39	5900.00	0.0041	1.31	6.85	46.62	11.42	5900.00	0.0041	5.35	8.39	14.77	11.83	14.77	11.83
VANO 5	19.13	19.00	513 51	298 58	1268 22	474.41	42.34	10.37	5900 00	0.0041	1 21	5.79	39.12	9 58	5900.00	0.0041	5.15	7.37	14.77	11.83	14.77	11.83
VANO 5	20.40	20 00	461.27	142 55	1219 53	383.37	38 03	9 32	5900.00	0.0041	0 58	4.95	31 61	7.74	5900.00	0.0041	4.95	6.35	14.77	11.83	14.77	11.83
VANO 5	20.40	21.00	461.27	142 55	1219 53	383.37	38.03	9 32	5900 00	0.0041	0.58	4.95	31.61	7.74	5900.00	0.0041	4.95	6.35	14.77	11.83	14.77	11.83
VANO 5	21.68	22.00	533.87	138 73	1179 92	292 29	44 02	10.78	5900.00	0.0041	0.56	5 67	24.10	5 90	5900.00	0.0041	4.79	5.35	14.77	11.83	14.77	11.83
VANO 5	22.95	23.00	607 89	134 90	1142 43	201 18	50.12	12.28	5900 00	0.0041	0.55	6 41	16.59	4.06	5900.00	0.0041	4.64	4.35	14.77	11.83	14.77	11.83
VANO 5	24.23	24.00	683.32	131 07	1107 38	110.05	56 34	13.80	5900 00	0.0041	0.53	7.17	9 07	2 22	5900.00	0.0041	4.50	3.36	14.77	11.83	14.77	11.83
VANO 5	25.50	25 00	415.92	203.67	1074 58	18.91	34.29	8 40	5900.00	0.0041	0 83	4 61	1.56	0.38	5900.00	0.0041	4.36	2.37	14.77	11.83	14.77	11.83
VANO 5	25.50	26 00	415 92	153 08	1024 10	18.91	34 29	8.40	5900.00	0.0041	0 62	4 51	1.56	0.38	5900.00	0 0041	4.16	2.27	14.77	11.83	14.77	11.83
VANO 5	26.78	27 00	720 02	129.46	988 33	74 59	59.37	14 54	5900 00	0.0041	0.53	7 54	6 15	1 51	5900.00	0.0041	4.01	2.76	14.77	11.83	14.77	11.83
VANO 5	28.05	28.00	644 84	106.14	975 22	165.01	53.17	13.03	5900 00	0.0041	0 43	6 73	13 61	3.33	5900.00	0.0041	3.96	3.65	14.77	11.83	14.77	11.83
VANO 5	29.33	29 00	571.06	83.13	1008 10	256.11	47 09	11 54	5900.00	0.0041	0 34	5 94	21 12	5 17	5900.00	0.0041	4 09	4.63	14.77	11.83	14.77	11.83
VANO 5	30.60	30.00	498 70	60.41	1043 30	347.17	41 12	10 07	5900 00	0.0041	0.25	5 16	28.62	7.01	5900.00	0.0041	4.24	5 63	14.77	11.83	14.77	11.83
VANO 5	30.60	31 00	498.70	60 41	1043.30	347.17	41 12	10.07	5900.00	0.0041	0.25	5.16	28 62	7.01	5900.00	0.0041	4.24	5.63	14.77	11.83	14.77	11.83
VANO 5	31.88	32.00	474.33	146 82	1088 38	438.19	39 11	9 58	5900 00	0.0041	0 60	5 09	36 13	8 85	5900.00	0.0041	4.42	6 63	14.77	11.83	14.77	11.83
VANO 5	33.15	33.00	574 53	168.05	1134 39	529.15	47 37	11.61	5900.00	0.0041	0.68	6.14	43.63	10.69	5900.00	0.0041	4.61	7.65	14.77	11.83	14.77	11.83
VANO 5	34.43	34 00	675.91	189 60	1183 75	620.04	55 73	13.65	5900.00	0.0041	0.77	7.21	51.12	12.53	5900.00	0.0041	4.81	8.67	14.77	11.83	14.77	11.83
VANO 5	35.70	35.00	778.46	212 27	1235.32	710.87	64 19	15 73	5900 00	0.0041	0.86	8 29	58 61	14.36	5900.00	0.0041	5.01	9.69	14.77	11.83	14.77	11.83
VANO 5	35.70	36.00	778 46	212.27	1235.32	710.87	64 19	15.73	5900.00	0 0041	0.86	8 29	58.61	14 36	5900.00	0.0041	5 01	9.69	14.77	11.83	14.77	11.83
VANO 5	36.98	37.00	882.13	235.19	1288.11	801.60	72.73	17 82	5900.00	0.0041	0.95	9 39	66.09	16.19	5900.00	0.0041	5.23	10.71	14.77	11.83	14.77	11.83
VANO 5	38.25	38.00	986.88	258.36	1344 52	892.25	81 37	19.94	5900 00	0 0041	1 05	10 49	73.57	18.02	5900.00	0.0041	5 46	11.74	14.77	11.83	14.77	11.83
VANO 5	39.53	39.00	1092 69	282.02	1402 38	982.80	90.09	22.07	5900.00	0.0041	1 14	11.61	81.03	19.85	5900.00	0.0041	5.69	12.77	14.77	11.83	14.77	12.77
VANO 5	40.80	40.00	1199.49	306.98	1463 33	1073.24	98 90	24 23	5900.00	0.0041	1 25	12 74	88 49	21.68	5900.00	0 0041	5 94	13.81	14.77	11.83	14.77	13.81
VANO 5	40.80	41 00	1199 49	306 98	1463 33	1073 24	98.90	24 23	5900.00	0.0041	1 25	12 74	88.49	21 68	5900.00	0.0041	5 94	13.81	14.77	11.83	14.77	13.81
VANO 5	42.08	42.00	1307 25	332 19	1527 19	1163.57	107 79	26.41	5900.00	0.0041	1.35	13 88	95.94	23.50	5900.00	0.0041	6.20	14.85	14.77	11.83	14.85	14.85
VANO 5	43.35	43 00	1415.92	359 16	1594 18	1253.78	116.75	28 60	5900 00	0.0041	1 46	15 03	103.38	25 33	5900.00	0.0041	6.47	15.90	14.77	11.83	15.90	15.90
VANO 5	44.63	44.00	1525 44	386.37	1663 39	1343.87	125 78	30.81	5900.00	0.0041	1.57	16 19	110.80	27.15	5900.00	0.0041	6.75	16.95	14.77	11.83	16.95	16.95
VANO 5	45.90	45 00	1635.77	413.84	1734 52	1433.83	134 87	33 04	5900.00	0.0041	1.68	17 36	118.22	28.96	5900.00	0.0041	7.04	18.00	14.77	11.83	18.00	18.00
VANO 5	45.90	46.00	1635.77	413.84	1734.52	1433 83	134.87	33.04	5900.00	0.0041	1.68	17.36	118.22	28.96	5900.00	0.0041	7.04	18.00	14.77	11.83	18.00	18.00
VANO 5	47.18	47.00	1746.83	441 55	1807 17	1523.65	144 03	35.29	5900.00	0.0041	1.79	18.54	125 63	30.78	5900.00	0.0041	7.34	19.06	14.77	11.83	19.06	19.06
VANO 5	48.45	48.00	1858.59	469.51	1883.14	1613.33	153.24	37.54	5900.00	0.0041	1.91	19 73	133.02	32.59	5900.00	0.0041	7.64	20.12	14.77	11.83	20.12	20.12
VANO 5	49.73	49.00	1970.96	497.72	1960 93	1702.88	162.51	39.81	5900.00	0.0041	2.02	20 92	140.41	34.40	5900.00	0.0041	7.96	21.18	14.77	11.83	21.18	21.18
VANO 5	51.00	50.00	2406.55	526.18	2040 94	1792.27	203.37	49 83	5900.00	0.0041	2 14	25.98	147.76	36.21	5900.00	0.0041	8.28	22.24	14.77	11.83	25.98	25.98
VANO 6	0.00	1.00	2406.83	757.03	2337 91	1742.10	198.45	48.62	5900.00	0.0041	3.07	25.85	143.64	35.19	5900.00	0.0041	9.49	22.34	14.77	11.83	25.85	25.85
VANO 6	1.20	2.00	1891 68	730.03	2261 00	1657.69	155 97	38.21	5900.00	0.0041	2.96	20.59	136 68	33.49	5900.00	0.0041	9.18	21.33	14.77	11.83	21.33	21.33
VANO 6	2.40	3.00	1785.62	703.26	2186 14	1573 15	147.23	36.07	5900.00	0.0041	2.85	19.46	129.71	31.78	5900.00	0.0041	8 88	20.33	14.77	11.83	20.33	20.33
VANO 6	3.60	4 00	1680.19	676.72	2114 04	1488.48	138.53	33.94	5900.00	0.0041	2.75	18.34	122.73	30.07	5900.00	0.0041	8.58	19.33	14.77	11.83	19.33	19.33
VANO 6	4.80	5 00	1575 43	650.41	2044 70	1403.69	129 90	31.82	5900.00	0.0041	2.64	17.23	115.74	28.36	5900.00	0.0041	8.30	18.33	14.77	11.83	18.33	18.33
VANO 6	4.80	6 00	1575.43	650 41	2044 70	1403.69	129.90	31.82	5900.00	0.0041	2.64	17.23	115.74	28.36	5900.00	0.0041	8.30	18.33	14.77	11.83	18.33	18.33
VANO 6	6.00	7.00	1471 41	624.33	1976 10	1318.78	121 32	29.72	5900.00	0.0041	2.53	16.13	108 74	26.64	5900.00	0.0041	8.02	17.33	14.77	11.83	17.33	17.33
VANO 6	7.20	8.00	1368 18	598.47	1910 27	1233.75	112.81	27.64	5900.00	0.0041	2.43	15.03	101.72	24.92	5900.00	0.0041	7.75	16.34	14.77	11.83	16.34	16.34
VANO 6	8.40	9 00	1265 78	572.85	1845 09	1148.61	104 37	25.57	5900.00	0.0041	2.33	13.95	94.70	23.20	5900.00	0.0041	7.49	15.35	14.77	11.83	15.35	15.35
VANO 6	9.60	10.00	1164 26	547.45	1783 66	1063.36	96.00	23.52	5900.00	0.0041	2.22	12.87	87.68	21.48	5900.00	0.0041	7.24	14.36	14.77	11.83	14.77	14.36
VANO 6	9.60	11.00	1164 26	547.45	1783.66	1063.36	96.00	23.52	5900 00	0.0041	2.22	12 87	87.68	21.48	5900.00	0.0041	7.24	14.36	14.77	11.83	14.77	14.36
VANO 6	10.80	12 00	1063 67	522.29	1723 19	978.02	87 70	21.49	5900 00	0.0041	2.12	11 80	80 64	19.76	5900.00	0.0041	7.00	13.38	14.77	11.83	14.77	13.38
VANO 6	12.00	13.00	964 04	497.35	1664 07	892.58	79 49	19.47	5900.00	0.0041	2.02	10.75	73.60	18.03	5900.00	0.0041	6.76	12.39	14.77	11.83	14.77	12.39
VANO 6	13.20	14.00	865.42	472.64	1608 41	807.06	71.36	17.48	5900.00	0.0041	1.92	9.70	66.54	16.30	5900.00	0.0041	6.53	11.42	14.77	11.83	14.77	11.83
VANO 6	14.40	15.00	767 84	448.16	1553 10	721.46	63.31	15.51	5900.00	0.0041	1.82	8.66	59.49	14.57	5900.00	0.0041	6.31	10.44	14.77	11.83	14.77	11.83
VANO 6	14 40	16.00	750 89	448.16	1553.90	704.52	61.91	15.17	5900 00	0.0041	1.82	8.49	58.09	14.23	5900.00	0.0041	6.31	10.27	14.77	11.83	14.77	11.83
VANO 6	15.60	17.00	654.39	423.91	1501 35	618.85	53.96	13.22	5900.00	0.0041	1.72	7.47	51.03	12.50	5900.00	0 0041	6.09	9.30	14.77	11.83	14.77	11.83
VANO 6	16.80	18.00	558 99	399 88	1450 16	533.12	46.09	11.29	5900.00	0.0041	1.62	6.46	43.96	10.77	5900.00	0 0041	5.89	8.33	14.77	11.83	14.77	11.83
VANO 6	18.00	19.00	464.74	376.09	1402 11	447.34	38.32	9.39	5900.00	0.0041	1.53	5.46	36.88	9.04	5900.00	0.0041	5.69	7.38	14.77	11.83	14.77	11.83
VANO 6	19.20	20 00	477 66	226.51	1355 13	361.51	39 38	9 65	5900.00	0.0041	0.92	5 28	29 81	7.30	5900.00	0.0041	5 50	6.40	14.77	11.83	14.77	11.83
VANO 6	19.20	21.00	477 66	226.51	1355.13	361.51	39.38	9.65	5900.00	0.0041	0.92	5.28	29.81	7.30	5900.00	0.0041	5.50	6.40	14.77	11.83	14.77	11.83
VANO 6	20.40	22.00	558 53	207.33	1311 71	275.65	46 05	11.28	5900.00	0.0041	0.84	6.06	22.73	5.57	5900.00	0.0041	5.32	5.45	14.77	11.83	14.77	11.83
VANO 6	21.60	23.00	640 71	197.25	1268 16	189.76	52.83	12.94	5900.00	0.0041	0.80	6.87	15.65	3.83	5900.00	0.0041	5.15	4.49	14.77	11.83	14.77	11.83
VANO 6	22.80	24.00	724 21	187.17	1228 57	103.86	59.71	14.63	5900.00	0.0041	0.76	7.69	8.56	2.10	5900.00	0.0041	4.99	3.54	14.77	11.83	14.77	11.83
VANO 6	24.00	25 00	421 04	260.02	1190 14	17.95	34.72	8.51	5900.00	0.0041	1.06	4.78	1.48	0.36	5900.00	0.0041	4.83	2.60	14.77	11.83	14.77	11.83
VANO 6	24.00	26.00	421.04	260.02	1190 14	17 95	34.72	8.51	5900.00	0.0041	1.06	4.78	1.48	0.36	5900.00	0.0041	4.83	2.60	14. 7	11.83	14.77	11.83
VANO 6	25.20	27.00	744.38	237 62	1155 68	85.59	61.38	15.04	5900.00	0.0041	0.96	8.00	7.06	1.73	5900.00	0.0041	4.69	3.21	14.77	11.83	14.77	11.83
VANO 6	26.40	28.00	661.03	215.51	1121 48	172.39	54 50	13.35	5900.00	0.0041	0.87	7.11	14.21	3.48	5900.00	0.0041	4.55	4.02	14.77	11.83	14.77	11.83
VANO 6	27.60	29.00	579.01	193.68	1103 68	259.16	47.74	11.70	5900.00	0.0041	0.79	6.24	21.37	5.24	5900.00	0.0041	4.48	4.86	14.77	11.83	14.77	11.83
VANO 6	28.80	30.00	498.29	172 12	1088.18	345.91	41.09	10.07	5900.00	0.0041	0.70	5.38	28.52	6.99	5900.00	0.0041	4.42	5.70	14.77	11.83	14.77	11.83
VANO 6	28.80	31.00	498.29	172.12	1088.18	345.91	41.09	10.07	5900.00	0.0041	0.70	5.38	28.52	6.99	5900.00	0.0041	4.42	5.70	14.77	11.83	14.77	11.83
VANO 6	30.00	32.00	444.49	126.71	1074 64	432.61	36.65	8.98	5900.00	0.0041	0.51	4.75	35.67	8.74	5900.00	0.0041	4.36	6.55	14.77	11.83	14.77	11.83
VANO 6	31.20	33.00	538.90	116.63	1101.40	514.12	44.43	10.89	5900.00	0.0041	0.47	5.68	42.39	10.39	5900.00	0.0041	4.47	7.43	14.77	11.83	14.77	11.83
VANO 6	32.40	34.00	634.44	128.92	1140.13	599.82	52.31	12.82	5900.00	0.0041	0.52	6.67	49.46	12.12	5900.00	0.0041	4.63	8.37	14.77	11.83	14.77	11.83
VANO 6	33.60	35.00	731.08	142.87	1180.82	685.45	60.28	14.77	5900.00	0.0041	0.58	7.67	56.52	13.85	5900.00	0.0041	4.79	9.32	14.77	11.83	14.77	11.83
VANO 6	33.60	36.00	731.08	142.87	1180.82	685.45	60.28	14.77	5900.00	0.0041	0.58	7.67	56.52	13.85	5900.00	0.0041	4.79	9.32	14.77	11.83	14.77	11.83
VANO 6	34.80	37.00	828.77	157.04	1223.46	771.01	68.33	16.74	5900.00	0.0041	0.64	8.69	63.57	15.57	5900.00	0.0041	4.97	10.27	14.77	11.83	14.77	11.83
VANO 6	36.00	38.00	927.50	171.45	1268.68	856.49	76.47	18.74	5900.00	0.0041	0.70	9.72	70.62	17.30	5900.00	0.0041	5.15	11.22	14.77	11.83	14.77	11.83
VANO 6	37.20	39.00	1027.21	191.90	1320.43	941.88	84.70	20.75	5900.00	0.0041	0.78	10.76	77.66	19.03	5900.00	0.0041	5.36	12.19	14.77	11.83	14.77	12.19
VANO 6	38.40	40.00	1127.88	213.19	1375.33	1027.17	93.00	22.78	5900.00	0.0041	0.87	11.82	84.69	20.75	5900.00	0.0041	5.58	13.17	14.77	11.83	14.77	13.17
VANO 6	38.40	41.00	1127.88	213.19	1375.39	1027.17	93.00	22.78	5900.00	0.0041	0.87	11.82	84.69	20.75	5900.00	0.0041	5.58	13.17	14.77	11.83	14.77	13.17
VANO 6	39.60	42.00	1229.45	234.71	1432.24	1112.36	101.37	24.84	5900.00	0.0041	0.95	12.89	91.72	22.47	5900.00	0.0041	5.81	14.14	14.77	11.83	14.77	14.14
VANO 6	40.80	43.00	1331.89	256.45	1491.03	1197.44	109.82	26.91	5900.00	0.0041	1.04	13.97	98.73	24.19	5900.00	0.0041	6.05	15.12	14.77	11.83	15.12	15.12
VANO 6	42.00	44.00	1435.15	278.43	1551.87	1282.41	118.33	28.99	5900.00	0.0041	1.13	15.06	105.74	25.91	5900.00	0.0041	6.30	16.10	14.77	11.83	16.10	16.10
VANO 6	43.20	45.00	1539.17	300 63	1614.61	1367.26	126.91	31.09	5900.00	0.0041	1.22	16.18	112.73	27.62	5900.00	0.0041	6.55	17.09	14.77	11.83	17.09	17.09
VANO 6	43.20	46.00	1539.17	300 63	1614.61	1367.26	126.91	31.09	5900.00	0.0041	1.22	16.16	112.73	27.62	5900.00	0.0041	6.55	17.09	14.77	11.83	17.09	17.09
VANO 6	44.40	47.00	1643.90	323.07	1679.31	1451.99	135.54	33.21	5900.00	0.0041	1.31	17.26	119.72	29.33	5900.00	0.0041	6.82	18.07	14.77	11.83	18.07	17.09
VANO 6	45.60	48.00	1749.29	346.56	1746.52	1536.59	144.23	35.34	5900.00	0.0041	1.41	18.37	126.69	31.04	5900.00	0.0041	7.09	19.06	14.77	11.83	19.06	18.07
VANO 6	46.80	49.00	1855.28	370.34	1815.73	1621.06	152.97	37.48	5900.00	0.0041	1.50	19.49	133.66	32.75	5900.00	0.0041	7.37	20.06	14.77	11.83	20.06	19.06
																						20.06

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S5)=	1.65
Inercia XX =	20.0
fyd cercos =	40816
colg tetha =	1
K rasant =	0.082
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
colg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Prel) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC | **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** | **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 7	0.00	1.00	2316.53	710.45	2345.43	1717.32	191.00	46.80	5900.00	0.0041	2.88	24.84	141.60	34.69	5900.00	0.0041	9.52	22.11	14.77	11.83	24.84	24.84
VANO 7	1.20	2.00	1801.53	683.29	2269.89	1632.98	148.54	36.39	5900.00	0.0041	2.77	19.58	134.64	32.99	5900.00	0.0041	9.21	21.10	14.77	11.83	21.10	21.10
VANO 7	2.40	3.00	1698.44	656.36	2195.90	1548.51	140.04	34.31	5900.00	0.0041	2.66	18.49	127.68	31.28	5900.00	0.0041	8.91	20.10	14.77	11.83	20.10	20.10
VANO 7	3.60	4.00	1605.64	629.66	2124.05	1463.91	132.39	32.43	5900.00	0.0041	2.56	17.50	120.70	29.57	5900.00	0.0041	8.62	19.10	14.77	11.83	19.10	19.10
VANO 7	4.80	5.00	1513.50	603.18	2054.14	1379.18	124.79	30.57	5900.00	0.0041	2.45	16.51	113.72	27.86	5900.00	0.0041	8.34	18.10	14.77	11.83	18.10	18.10
VANO 7	4.80	6.00	1513.50	603.18	2054.14	1379.18	124.79	30.57	5900.00	0.0041	2.45	16.51	113.72	27.86	5900.00	0.0041	8.34	18.10	14.77	11.83	18.10	18.10
VANO 7	6.00	7.00	1422.07	576.92	1986.18	1294.33	117.25	28.73	5900.00	0.0041	2.34	15.53	106.72	26.15	5900.00	0.0041	8.06	17.10	14.77	11.83	17.10	17.10
VANO 7	7.20	8.00	1331.41	550.89	1920.16	1209.36	109.78	26.90	5900.00	0.0041	2.24	14.57	99.71	24.43	5900.00	0.0041	7.79	16.11	14.77	11.83	16.11	16.11
VANO 7	8.40	9.00	1232.18	525.09	1856.09	1124.28	101.60	24.89	5900.00	0.0041	2.13	13.51	92.70	22.71	5900.00	0.0041	7.53	15.12	14.77	11.83	15.12	15.12
VANO 7	9.60	10.00	1130.68	499.51	1793.96	1039.09	93.23	22.84	5900.00	0.0041	2.03	12.43	85.68	20.99	5900.00	0.0041	7.28	14.14	14.77	11.83	14.14	14.14
VANO 7	9.60	11.00	1130.68	499.51	1793.96	1039.09	93.23	22.84	5900.00	0.0041	2.03	12.43	85.68	20.99	5900.00	0.0041	7.28	14.14	14.77	11.83	14.14	14.14
VANO 7	10.80	12.00	1030.10	474.16	1733.77	953.80	84.93	20.81	5900.00	0.0041	1.92	11.37	78.64	19.27	5900.00	0.0041	7.04	13.15	14.77	11.83	14.77	13.15
VANO 7	12.00	13.00	930.46	449.04	1675.52	868.42	76.72	18.80	5900.00	0.0041	1.82	10.31	71.60	17.54	5900.00	0.0041	6.80	12.17	14.77	11.83	14.77	12.17
VANO 7	13.20	14.00	831.83	424.14	1619.22	782.95	68.59	16.80	5900.00	0.0041	1.72	9.26	64.56	15.82	5900.00	0.0041	6.57	11.19	14.77	11.83	14.77	11.83
VANO 7	14.40	15.00	734.22	399.46	1564.36	697.40	60.54	14.83	5900.00	0.0041	1.62	8.23	57.50	14.09	5900.00	0.0041	6.35	10.22	14.77	11.83	14.77	11.83
VANO 7	14.40	16.00	717.28	399.46	1564.36	680.45	59.14	14.49	5900.00	0.0041	1.62	8.06	56.10	13.75	5900.00	0.0041	6.35	10.05	14.77	11.83	14.77	11.83
VANO 7	15.60	17.00	620.74	375.01	1512.14	594.83	51.18	12.54	5900.00	0.0041	1.52	7.03	49.04	12.02	5900.00	0.0041	6.14	9.08	14.77	11.83	14.77	11.83
VANO 7	16.80	18.00	525.30	350.79	1461.37	509.14	43.31	10.61	5900.00	0.0041	1.42	6.02	41.98	10.28	5900.00	0.0041	5.93	8.11	14.77	11.83	14.77	11.83
VANO 7	18.00	19.00	430.99	326.79	1413.14	423.39	35.54	8.71	5900.00	0.0041	1.33	5.02	34.91	8.55	5900.00	0.0041	5.74	7.15	14.77	11.83	14.77	11.83
VANO 7	19.20	20.00	489.77	177.07	1366.36	337.60	40.38	9.89	5900.00	0.0041	0.72	5.31	27.84	6.82	5900.00	0.0041	5.55	6.18	14.77	11.83	14.77	11.83
VANO 7	19.20	21.00	489.77	177.07	1366.36	337.60	40.38	9.89	5900.00	0.0041	0.72	5.31	27.84	6.82	5900.00	0.0041	5.55	6.18	14.77	11.83	14.77	11.83
VANO 7	20.40	22.00	567.43	166.70	1322.33	251.77	46.79	11.46	5900.00	0.0041	0.68	6.07	20.76	5.09	5900.00	0.0041	5.37	5.23	14.77	11.83	14.77	11.83
VANO 7	21.60	23.00	646.40	156.32	1280.15	165.91	53.30	13.06	5900.00	0.0041	0.63	6.85	13.68	3.35	5900.00	0.0041	5.20	4.27	14.77	11.83	14.77	11.83
VANO 7	22.80	24.00	726.69	145.95	1240.42	80.03	59.92	14.68	5900.00	0.0041	0.59	7.64	6.60	1.62	5900.00	0.0041	5.04	3.33	14.77	11.83	14.77	11.83
VANO 7	24.00	25.00	399.83	135.57	1202.15	10.26	32.97	8.08	5900.00	0.0041	0.55	4.31	0.85	0.21	5900.00	0.0041	4.88	2.54	14.77	11.83	14.77	11.83
VANO 7	24.00	26.00	399.83	135.57	1202.15	10.26	32.97	8.08	5900.00	0.0041	0.55	4.31	0.85	0.21	5900.00	0.0041	4.88	2.54	14.77	11.83	14.77	11.83
VANO 7	25.20	27.00	711.62	187.04	1166.12	97.04	58.67	14.38	5900.00	0.0041	0.76	7.57	8.00	1.96	5900.00	0.0041	4.74	3.35	14.77	11.83	14.77	11.83
VANO 7	26.40	28.00	631.31	164.70	1134.12	183.82	52.05	12.75	5900.00	0.0041	0.67	6.71	15.16	3.71	5900.00	0.0041	4.61	4.16	14.77	11.83	14.77	11.83
VANO 7	27.60	29.00	552.32	142.63	1120.6	270.58	45.54	11.16	5900.00	0.0041	0.58	5.87	22.31	5.47	5900.00	0.0041	4.55	5.01	14.77	11.83	14.77	11.83
VANO 7	28.80	30.00	474.65	120.83	1107.55	357.31	39.14	9.59	5900.00	0.0041	0.49	5.04	29.46	7.22	5900.00	0.0041	4.50	5.86	14.77	11.83	14.77	11.83
VANO 7	28.80	31.00	474.65	120.83	1107.55	357.31	39.14	9.59	5900.00	0.0041	0.49	5.04	29.46	7.22	5900.00	0.0041	4.50	5.86	14.77	11.83	14.77	11.83
VANO 7	30.00	32.00	441.60	111.38	1097.18	444.01	36.41	8.92	5900.00	0.0041	0.45	4.69	36.61	8.97	5900.00	0.0041	4.45	6.71	14.77	11.83	14.77	11.83
VANO 7	31.20	33.00	535.90	124.89	1117.1	525.19	44.19	10.83	5900.00	0.0041	0.51	5.67	43.30	10.61	5900.00	0.0041	4.53	7.57	14.77	11.83	14.77	11.83
VANO 7	32.40	34.00	631.32	143.44	1155.96	610.89	52.05	12.75	5900.00	0.0041	0.58	6.67	50.37	12.34	5900.00	0.0041	4.69	8.52	14.77	11.83	14.77	11.83
VANO 7	33.60	35.00	727.84	163.77	1196.76	696.51	60.01	14.70	5900.00	0.0041	0.66	7.68	57.43	14.07	5900.00	0.0041	4.86	9.46	14.77	11.83	14.77	11.83
VANO 7	33.60	36.00	727.84	163.77	1196.76	696.51	60.01	14.70	5900.00	0.0041	0.66	7.68	57.43	14.07	5900.00	0.0041	4.86	9.46	14.77	11.83	14.77	11.83
VANO 7	34.80	37.00	825.43	184.39	1239.10	782.07	68.06	16.67	5900.00	0.0041	0.75	8.71	64.48	15.80	5900.00	0.0041	5.03	10.41	14.77	11.83	14.77	11.83
VANO 7	36.00	38.00	924.05	205.23	1284.8	867.55	76.19	18.67	5900.00	0.0041	0.83	9.75	71.53	17.53	5900.00	0.0041	5.21	11.37	14.77	11.83	14.77	11.83
VANO 7	37.20	39.00	1023.67	226.30	1330.11	952.93	84.40	20.68	5900.00	0.0041	0.92	10.80	78.57	19.25	5900.00	0.0041	5.40	12.33	14.77	11.83	14.77	12.33
VANO 7	38.40	40.00	1124.25	247.59	1381.6	1038.23	92.70	22.71	5900.00	0.0041	1.01	11.86	85.60	20.97	5900.00	0.0041	5.61	13.29	14.77	11.83	14.77	13.29
VANO 7	38.40	41.00	1124.25	247.59	1381.6	1038.23	92.70	22.71	5900.00	0.0041	1.01	11.86	85.60	20.97	5900.00	0.0041	5.61	13.29	14.77	11.83	14.77	13.29
VANO 7	39.60	42.00	1225.73	269.50	1438.03	1123.42	101.06	24.76	5900.00	0.0041	1.09	12.93	92.63	22.69	5900.00	0.0041	5.84	14.27	14.77	11.83	14.77	14.27
VANO 7	40.80	43.00	1328.09	292.13	1496.14	1208.51	109.50	26.83	5900.00	0.0041	1.19	14.01	99.64	24.41	5900.00	0.0041	6.08	15.24	14.77	11.83	15.24	15.24
VANO 7	42.00	44.00	1431.26	314.99	1557.19	1293.48	118.01	28.91	5900.00	0.0041	1.28	15.10	106.65	26.13	5900.00	0.0041	6.32	16.23	14.77	11.83	16.23	16.23
VANO 7	43.20	45.00	1535.21	338.08	1620.29	1378.33	126.58	31.01	5900.00	0.0041	1.37	16.19	113.65	27.84	5900.00	0.0041	6.58	17.21	14.77	11.83	17.21	17.21
VANO 7	43.20	46.00	1535.21	338.08	1620.29	1378.33	126.58	31.01	5900.00	0.0041	1.37	16.19	113.65	27.84	5900.00	0.0041	6.58	17.21	14.77	11.83	17.21	17.21
VANO 7	44.40	47.00	1639.87	361.39	1684.53	1463.07	135.21	33.13	5900.00	0.0041	1.47	17.30	120.63	29.55	5900.00	0.0041	6.84	18.20	14.77	11.83	18.20	18.20
VANO 7	45.60	48.00	1745.20	384.93	1752.66	1547.68	143.89	35.25	5900.00	0.0041	1.56	18.41	127.61	31.26	5900.00	0.0041	7.11	19.19	14.77	11.83	19.19	19.19
VANO 7	46.80	49.00	1851.13	408.69	1821.18	1632.16	152.63	37.39	5900.00	0.0041	1.66	19.53	134.57	32.97	5900.00	0.0041	7.39	20.18	14.77	11.83	20.18	20.18
VANO 7	48.00	50.00	2366.13	432.88	1892.20	1716.50	195.09	47.80	5900.00	0.0041	1.76	24.28	141.53	34.67	5900.00	0.0041	7.68	21.18	14.77	11.83	24.76	24.76
VANO 8	0.00	1.00	2316.53	710.45	2236.67	1719.11	191.00	46.80	5900.00	0.0041	2.88	24.84	141.74	34.73	5900.00	0.0041	9.08	21.90	14.77	11.83	24.84	24.84
VANO 8	1.20	2.00	1801.53	683.29	2161.66	1634.77	148.54	36.39	5900.00	0.0041	2.77	19.58	134.79	33.02	5900.00	0.0041	8.77	20.90	14.77	11.83	20.90	20.90
VANO 8	2.40	3.00	1698.44	656.36	2088.28	1550.30	140.04	34.31	5900.00	0.0041	2.66	18.49	127.83	31.32	5900.00	0.0041	8.48	19.90	14.77	11.83	19.90	19.90
VANO 8	3.60	4.00	1605.64	629.66	2017.02	1465.71	132.39	32.43	5900.00	0.0041	2.56	17.50	120.85	29.61	5900.00	0.0041	8.19	18.90	14.77	11.83	18.90	18.90
VANO 8	4.80	5.00	1513.50	603.18	1947.60	1380.98	124.79	30.57	5900.00	0.0041	2.45	16.51	113.86	27.90	5900.00	0.0041	7.91	17.90	14.77	11.83	17.90	17.90
VANO 8	4.80	6.00	1513.50	603.18	1947.60	1380.98	124.79	30.57	5900.00	0.0041	2.45	16.51	113.86	27.90	5900.00	0.0041	7.91	17.90	14.77	11.83	17.90	17.90
VANO 8	6.00	7.00	1422.07	576.92	1880.11	1296.14	117.25	28.73	5900.00	0.0041	2.34	15.53	106.87	26.18	5900.00	0.0041	7.63	16.91	14.77	11.83	16.91	16.91
VANO 8	7.20	8.00	1331.41	550.89	1814.54	1211.17	109.78	26.90	5900.00	0.0041	2.24	14.57	99.86	24.47	5900.00	0.0041	7.37	15.92	14.77	11.83	15.92	15.92
VANO 8	8.40	9.00	1232.18	525.09	1750.90	1126.10	101.60	24.89	5900.00	0.0041	2.13	13.51	92.85	22.75	5900.00	0.0041	7.11	14.93	14.77	11.83	14.93	14.93
VANO 8	9.60	10.00	1130.68	499.51	1689.29	1040.92	93.23	22.84	5900.00	0.0041	2.03	12.43	85.83	21.03	5900.00	0.0041	6.86	13.94	14.77	11.83	14.77	13.94
VANO 8	9.60	11.00	1130.68	499.51	1689.29	1040.92	93.23	22.84	5900.00	0.0041	2.03	12.43	85.83	21.03	5900.00	0.0041	6.86	13.94	14.77	11.83	14.77	13.94
VANO 8	10.80	12.00	1030.10	474.16	1629.42	955.63	84.93	20.81	5900.00	0.0041	1.92	11.37	78.79	19.30	5900.00	0.0041	6.61	12.96	14.77	11.83	14.77	12.96
VANO 8	12.00	13.00	930.46	449.04	1571.57	870.26	76.72	18.80	5900.00	0.0041	1.82	10.31	71.75	17.58	5900.00	0.0041	6.38	11.98	14.77	11.83	14.77	11.98
VANO 8	13.20	14.00	831.83	424.14	1515.65	784.79	68.59	16.80	5900.00	0.0041	1.72	9.26	64.71	15.85	5900.00	0.0041	6.15	11.00	14.77	11.83	14.77	11.83
VANO 8	14.40	15.00	734.22	399.46	1461.63	699.25	60.54	14.83	5900.00	0.0041	1.62	8.23	57.65	14.13	5900.00	0.0041	5.93	10.03	14.77	11.83	14.77	11.83
VANO 8	14.40	16.00	717.28	399.46	1461.63	682.30	59.14	14.49	5900.00	0.0041	1.62	8.06	56.26	13.78	5900.00	0.0041	5.93	9.86	14.77	11.83	14.77	11.83
VANO 8	15.60	17.00	620.74	375.01	1409.63	596.69	51.18	12.54	5900.00	0.0041	1.52	7.03	49.20	12.05	5900.00	0.0041	5.72	8.89	14.77	11.83	14.77	11.83
VANO 8	16.80	18.00	525.30	350.79	1359.47	511.01	43.31	10.61	5900.00	0.0041	1.42	6.02	42.13	10.32	5900.00	0.0041	5.52	7.92	14.77	11.83	14.77	11.83
VANO 8	18.00	19.00	430.99	326.79	1311.27	425.27	35.54	8.71	5900.00	0.0041	1.33	5.02	35.06	8.59	5900.00	0.0041	5.32	6.96	14.77	11.83	14.77	11.83
VANO 8	19.20	20.00	489.77	177.07	1265.10	339.48	40.38	9.89	5900.00	0.0041	0.72	5.31	27.99	6.86	5900.00	0.0041	5.14	6.00	14.77	11.83	14.77	11.83
VANO 8	19.20	21.00	489.77	177.07	1265.10	339.48	40.38	9.89	5900.00	0.0041	0.72	5.31	27.99	6.86	5900.00	0.0041	5.14	6.00	14.77	11.83	14.77	11.83
VANO 8	20.40	22.00	567.43	166.70	1221.03	253.66	46.79	11.46	5900.00	0.0041	0.68	6.07	20.91	5.12	5900.00	0.0041	4.96	5.04	14.77	11.83	14.77	11.83
VANO 8	21.60	23.00	646.40	156.32	1179.13	167.81	53.30	13.06	5900.00	0.0041	0.63	6.85	13.84	3.39	5900.00	0.0041	4.79	4.09	14.77	11.83	14.77	11.83
VANO 8	22.80	24.00	726.69	145.95	1139.41	81.94	59.92	14.68	5900.00	0.0041	0.59	7.64	6.76	1.66	5900.00	0.0041	4.63	3.14	14.77	11.83	14.77	11.83
VANO 8	24.00	25.00	399.83	135.57	1103.91	5.42	32.97	8.08	5900.00	0.0041	0.55	4.31	0.45	0.11	5900.00	0.0041	4.48	2.30	14.77	11.83	14.77	11.83
VANO 8	24.00	26.00	399.83	135.57	1103.91	5.42	32.97	8.08	5900.00	0.0041	0.55	4.31	0.45	0.11	5900.00	0.0041	4.48	2.30	14.77	11.83	14.77	11.83
VANO 8	25.20	27.00	711.62	187.04	1073.33	91.80	58.67	14.38	5900.00	0.0041	0.76	7.57	7.57	1.85	5900.00	0.0041	4.36	3.11	14.77	11.83	14.77	11.83
VANO 8	26.40	28.00	631.31	164.70	1056.73	178.57	52.05	12.75	5900.00	0.0041	0.67	6.71	14.72	3.61	5900.00	0.0041	4.29	3.95	14.77	11.83	14.77	11.83
VANO 8	27.60	29.00	552.32	142.63	1057.99	262.63	45.54	11.16	5900.00	0.0041	0.58	5.87	21.65	5.31	5900.00	0.0041	4.29	4.80	14.77	11.83	14.77	11.83
VANO 8	28.80	30.00	474.65	120.83	1090.95	348.46	39.14	9.59	5900.00	0.0041	0.49	5.04	28.73	7.04	5900.00	0.0041	4.43	5.73	14.77	11.83	14.77	11.83
VANO 8	28.80	31.00	474.65	120.83	1090.95	348.46	39.14	9.59	5900.00	0.0041	0.49	5.04	28.73	7.04	5900.00	0.0041	4.43	5.73	14.77	11.83	14.77	11.83
VANO 8	30.00	32.00	441.60	111.38	1126.1	434.24	36.41	8.92	5900.00	0.0041	0.45	4.69	35.80	8.77	5900.00	0.0041	4.57	6.67	14.77	11.83	14.77	11.83
VANO 8	31.20	33.00	535.90	124.89	1165.23	519.98	44.19	10.83	5900.00	0.0041	0.51	5.67	42.87	10.50	5900.00	0.0041	4.73	7.62	14.77	11.83	14.77	11.83
VANO 8	32.40	34.00	631.32	143.44	1210.63	605.66	52.05	12.75	5900.00	0.0041	0.58	6.67	49.94	12.23	5900.00	0.0041	4.91	8.57	14.77	11.83	14.77	11.83
VANO 8	33.60	35.00	727.84	163.77	1258.04	691.28	60.01	14.70	5900.00	0.0041	0.66	7.68	57.00	13.96	5900.00	0.0041	5.11	9.54	14.77	11.83	14.77	11.83
VANO 8	33.60	36.00	727.84	163.77	1258.04	691.28	60.01	14.70	5900.00	0.0041	0.66	7.68	57.00	13.96	5900.00	0.0041	5.11	9.54	14.77	11.83	14.77	11.83
VANO 8	34.80	37.00	825.43	184.39	1307.81	776.83	68.06	16.67	5900.00	0.0041	0.75	8.71	64.05	15.69	5900.00	0.0041	5.31	10.50	14.77	11.83	14.77	11.83
VANO 8	36.00	38.00	924.05	205.23	1359.71	862.30	76.19	18.67	5900.00	0.0041	0.83	9.75	71.10	17.42	5900.00	0.0041	5.52	11.47	14.77	11.83	14.77	11.83
VANO 8	37.20	39.00	1023.67	226.30	1413.48	947.68	84.40	20.68	5900.00	0.0041	0.92	10.80	78.14	19.14	5900.00	0.0041	5.74	12.44	14.77	11.83	14.77	12.44
VANO 8	38.40	40.00	1124.25	247.59	1469.22	1032.97	92.70	22.71	5900.00	0.0041	1.01	11.86	85.17	20.87	5900.00	0.0041	5.96	13.42	14.77	11.83	14.77	13.42
VANO 8	38.40	41.00	1124.25	247.59	1469.22	1032.97	92.70	22.71	5900.00	0.0041	1.01	11.86	85.17	20.87	5900.00	0.0041	5.96	13.42	14.77	11.83	14.77	13.42
VANO 8	39.60	42.00	1225.73	269.50	1526.91	1118.15	101.06	24.76	5900.00	0.0041	1.09	12.93	92.19	22.59	5900.00	0.0041	6.20	14.39	14.77	11.83	14.77	14.39
VANO 8	40.80	43.00	1328.09	292.13	1586.88	1203.23	109.50	26.83	5900.00	0.0041	1.19	14.01	99.21	24.31	5900.00	0.0041	6.44	15.37	14.77	11.83	15.37	15.37
VANO 8	42.00	44.00	1431.26	314.99	1651.44	1288.20	118.01	28.91	5900.00	0.0041	1.28	15.10	106.21	26.02	5900.00	0.0041	6.70	16.36	14.77	11.83	16.36	16.36
VANO 8	43.20	45.00	1535.21	338.08	1717.95	1373.05	126.58	31.01	5900.00	0.0041	1.37	16.19	113.21	27.74	5900.00	0.0041	6.97	17.35	14.77	11.83	17.35	17.35
VANO 8	43.20	46.00	1535.21	338.08	1717.95	1373.05	126.58	31.01	5900.00	0.0041	1.37	16.19	113.21	27.74	5900.00	0.0041	6.97	17.35	14.77	11.83	17.35	17.35
VANO 8	44.40	47.00	1639.87	361.39	1786.38	1457.77	135.21	33.13	5900.00	0.0041	1.47	17.30	120.20	29.45	5900.00	0.0041	7.25	18.35	14.77	11.83	18.35	18.35
VANO 8	45.60	48.00	1745.20	384.93	1856.75	1542.38	143.89	35.25	5900.00	0.0041	1.56	18.41	127.17	31.16	5900.00	0.0041	7.54	19.35	14.77	11.83	19.35	19.35
VANO 8	46.80	49.00	1851.13	408.69	1929.04	1626.85	152.63	37.39	5900.00	0.0041	1.66	19.53	134.14	32.86	5900.00	0.0041	7.83	20.35	14.77	11.83	20.35	20.35

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S5)=	1.65
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.082
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 9	0.00	1 00	2316.53	710.45	2078 91	1719.14	191.00	46.80	5900.00	0.0041	2.88	24.84	141.75	34.73	5900.00	0.0041	8.44	21.58	14.77	11.83	24.84	24.84
VANO 9	1.20	2 00	1801.53	683.29	2004.31	1634.80	148.54	36.39	5900.00	0.0041	2.77	19.58	134.79	33.02	5900.00	0.0041	8.14	20.58	14.77	11.83	20.58	20.58
VANO 9	2.40	3 00	1698.44	656.36	1931.63	1550.33	140.04	34.31	5900.00	0.0041	2.66	18.49	127.83	31.32	5900.00	0.0041	7.84	19.58	14.77	11.83	19.58	19.58
VANO 9	3.60	4 00	1605.64	629.66	1860.88	1465.72	132.39	32.43	5900.00	0.0041	2.56	17.50	120.85	29.61	5900.00	0.0041	7.55	18.58	14.77	11.83	18.58	18.58
VANO 9	4.80	5 00	1513 50	603.18	1792 05	1381.00	124.79	30 57	5900.00	0.0041	2.45	16.51	113.87	27.90	5900.00	0.0041	7.27	17.59	14.77	11.83	17.59	17.59
VANO 9	4.80	6 00	1513 50	603 18	1792 05	1381.00	124.79	30 57	5900.00	0.0041	2.45	16.51	113.87	27.90	5900.00	0.0041	7.27	17.59	14.77	11.83	17.59	17.59
VANO 9	6.00	7 00	1422 07	576.92	1725 15	1296.15	117.25	28 73	5900.00	0.0041	2.34	15.53	106.87	26.18	5900.00	0.0041	7.00	16.59	14.77	11.83	16.59	16.59
VANO 9	7.20	8 00	1331.41	550 89	1660 18	1211.18	109 78	26 90	5900.00	0.0041	2 24	14.57	99.86	24.47	5900.00	0.0041	6.74	15.60	14.77	11.83	15.60	15.60
VANO 9	8.40	9 00	1232.18	525.09	1597 13	1126.11	101.60	24 89	5900.00	0.0041	2 13	13.51	92.85	22.75	5900.00	0.0041	6.48	14.62	14.77	11.83	14.77	14.62
VANO 9	9.60	10.00	1130.68	499 51	1536 01	1040.92	93.23	22 84	5900.00	0.0041	2.03	12.43	85.83	21.03	5900.00	0.0041	6.24	13.63	14.77	11.83	14.77	13.63
VANO 9	9.60	11.00	1130 68	499.51	1536 01	1040 92	93.23	22 84	5900.00	0.0041	2.03	12.43	85.83	21.03	5900.00	0.0041	6.24	13.63	14.77	11.83	14.77	13.63
VANO 9	10.80	12.00	1030.10	474 16	1476 82	955 64	84 93	20 81	5900.00	0.0041	1.92	11 37	78.79	19.30	5900.00	0.0041	5.99	12.65	14.77	11.83	14.77	12.65
VANO 9	12.00	13.00	930 46	449 04	1419 56	870.26	76 72	18 80	5900.00	0.0041	1 82	10 31	71.75	17.58	5900.00	0.0041	5.76	11.67	14.77	11.83	14.77	11.83
VANO 9	13.20	14.00	831.83	424 14	1364 22	784.80	68 59	16 80	5900.00	0.0041	1.72	9 26	64.71	15.85	5900.00	0.0041	5.54	10.70	14.77	11.83	14.77	11.83
VANO 9	14.40	15.00	734.22	399 46	1310.80	699.25	60 54	14 83	5900.00	0.0041	1.62	8 23	57.65	14.13	5900.00	0.0041	5.32	9.72	14.77	11.83	14.77	11.83
VANO 9	14.40	16.00	717.28	399.46	1310.80	682.31	59.14	14 49	5900.00	0.0041	1.62	8.06	56.26	13.78	5900.00	0.0041	5.32	9.55	14.77	11.83	14.77	11.83
VANO 9	15.60	17.00	620.74	375.01	1259 32	596 69	51.18	12 54	5900.00	0.0041	1.52	7.03	49.20	12.05	5900.00	0.0041	5.11	8.58	14.77	11.83	14.77	11.83
VANO 9	16.80	18.00	525.30	350.79	1209.33	511.01	43.31	10 61	5900.00	0.0041	1 42	6.02	42.13	10.32	5900.00	0.0041	4.91	7.62	14.77	11.83	14.77	11.83
VANO 9	18.00	19.00	430 99	326 79	1165 35	425.27	35.54	8 71	5900.00	0.0041	1.33	5.02	35.06	8.59	5900.00	0.0041	4.73	6.66	14.77	11.83	14.77	11.83
VANO 9	19.20	20.00	489 77	177 07	1122 79	339.48	40.38	9.89	5900.00	0.0041	0.72	5 31	27 99	6.86	5900.00	0.0041	4.56	5.71	14.77	11.83	14.77	11.83
VANO 9	19.20	21.00	489.77	177 07	1122 79	339.48	40 38	9 89	5900.00	0.0041	0.72	5.31	27.99	6.86	5900.00	0.0041	4.56	5.71	14.77	11.83	14.77	11.83
VANO 9	20.40	22.00	567.43	166 70	1083 34	253.66	46.79	11 46	5900.00	0.0041	0 68	6 07	20.91	5 12	5900.00	0.0041	4.40	4.76	14.77	11.83	14.77	11.83
VANO 9	21.60	23.00	646.40	156 32	1049 11	167.81	53.30	13 06	5900.00	0.0041	0 63	6 85	13.84	3.39	5900.00	0.0041	4.26	3.82	14.77	11.83	14.77	11.83
VANO 9	22.80	24.00	726 69	145 95	1024 14	82.85	59.92	14 68	5900.00	0.0041	0.59	7.64	6.83	1 67	5900.00	0.0041	4.16	2.92	14.77	11.83	14.77	11.83
VANO 9	24.00	25.00	399 83	135.57	1050 55	4.40	32.97	8 08	5900.00	0.0041	0.55	4.31	0.36	0.09	5900.00	0.0041	4.26	2.18	14.77	11.83	14.77	11.83
VANO 9	24.00	26.00	399.83	135 57	1050 55	4 40	32 97	8.08	5900.00	0.0041	0.55	4.31	0.36	0 09	5900.00	0.0041	4.26	2.18	14.77	11.83	14.77	11.83
VANO 9	25.20	27.00	711 62	187.04	1087 17	90.08	58.67	14 38	5900.00	0.0041	0.76	7 57	7.43	1.82	5900.00	0.0041	4.42	3.12	14.77	11.83	14.77	11.83
VANO 9	26.40	28.00	631 31	164 70	1127 32	175.95	52.05	12 75	5900.00	0.0041	0.67	6.71	14.51	3 55	5900.00	0.0041	4.58	4.06	14.77	11.83	14.77	11.83
VANO 9	27.60	29.00	552 32	142 63	1168 70	261.80	45.54	11 16	5900.00	0.0041	0 58	5.87	21.59	5.29	5900.00	0.0041	4.74	5.02	14.77	11.83	14.77	11.83
VANO 9	28.80	30.00	474.65	120.83	1212 12	347.62	39 14	9 59	5900.00	0.0041	0.49	5.04	28.66	7.02	5900.00	0.0041	4.92	5.97	14.77	11.83	14.77	11.83
VANO 9	28.80	31.00	474.65	120 83	1212 12	347.62	39.14	9 59	5900.00	0.0041	0 49	5.04	28.66	7.02	5900.00	0.0041	4.92	5.97	14.77	11.83	14.77	11.83
VANO 9	30.00	32.00	441.60	111 38	1258 17	433.40	36 41	8 92	5900.00	0.0041	0 45	4.69	35.73	8.76	5900.00	0.0041	5.11	6.93	14.77	11.83	14.77	11.83
VANO 9	31.20	33.00	535.90	124 89	1305 55	519 14	44 19	10 83	5900.00	0.0041	0 51	5 67	42 80	10.49	5900.00	0.0041	5.30	7.89	14.77	11.83	14.77	11.83
VANO 9	32.40	34 00	631 32	143.44	1355 56	604.82	52 05	12 75	5900.00	0.0041	0 58	6.67	49 87	12.22	5900.00	0.0041	5.50	8.86	14.77	11.83	14.77	11.83
VANO 9	33.60	35 00	727.84	163.77	1407 9	690 44	60 01	14 70	5900.00	0.0041	0 66	7 68	56.93	13.95	5900.00	0.0041	5.71	9 83	14.77	11.83	14.77	11.83
VANO 9	33.60	36.00	727 84	163.77	1407 9	690.44	60.01	14 70	5900.00	0.0041	0 66	7.68	56.93	13 95	5900.00	0.0041	5.71	9.83	14.77	11.83	14.77	11.83
VANO 9	34.80	37.00	825.43	184.39	1460 86	775.98	68.06	16.67	5900.00	0.0041	0.75	8 71	63.98	15.68	5900.00	0.0041	5.93	10.80	14.77	11.83	14.77	11.83
VANO 9	36.00	38.00	924.05	205.23	1516 25	861.45	76.19	18.67	5900.00	0.0041	0 83	9.75	71.03	17 40	5900.00	0.0041	6.15	11.78	14.77	11.83	14.77	11.83
VANO 9	37.20	39.00	1023 67	226.30	1573 16	946.82	84 40	20.68	5900.00	0.0041	0.92	10.80	78.07	19.13	5900.00	0.0041	6.39	12.76	14.77	11.83	14.77	12.76
VANO 9	38.40	40.00	1124.25	247.59	1633 61	1032.11	92.70	22.71	5900.00	0.0041	1 01	11.86	85.10	20.85	5900.00	0.0041	6.63	13.74	14.77	11.83	14.77	13.74
VANO 9	38.40	41.00	1124 25	247.59	1633 61	1032.11	92.70	22.71	5900.00	0.0041	1.01	11.86	85.10	20.85	5900.00	0.0041	6.63	13.74	14.77	11.83	14.77	13.74
VANO 9	39.60	42.00	1225.73	269.50	1694 38	1117 29	101 06	24.76	5900.00	0.0041	1.09	12.93	92.12	22.57	5900.00	0.0041	6.88	14.72	14.77	11.83	14.77	13.74
VANO 9	40.80	43.00	1328 09	292 13	1757 68	1202.36	109.50	26 83	5900.00	0.0041	1.19	14.01	99.14	24.29	5900.00	0.0041	7.13	15.71	14.77	11.83	14.77	14.72
VANO 9	42.00	44 00	1431.26	314.99	1822 00	1287.33	118.01	28.91	5900.00	0.0041	1.28	15.10	106.14	26.00	5900.00	0.0041	7.40	16.70	14.77	11.83	15.71	15.71
VANO 9	43.20	45.00	1535.21	338 08	1889 66	1372 17	126 58	31.01	5900.00	0.0041	1.37	16.19	113.14	27.72	5900.00	0.0041	7.67	17.69	14.77	11.83	16.70	16.70
VANO 9	43.20	46 00	1535.21	338.08	1889 66	1372.17	126 58	31.01	5900.00	0.0041	1.37	16.19	113.14	27.72	5900.00	0.0041	7.67	17.69	14.77	11.83	17.69	17.69
VANO 9	44.40	47.00	1639.87	361.39	1958 64	1456.90	135 21	33 13	5900.00	0.0041	1.47	17.30	120.12	29.43	5900.00	0.0041	7.95	18.69	14.77	11.83	17.69	17.69
VANO 9	45.60	48.00	1745.20	384.93	2029 54	1541.49	143 89	35.25	5900.00	0.0041	1.56	18.41	127.10	31.14	5900.00	0.0041	8.24	19.69	14.77	11.83	18.69	18.69
VANO 9	46.80	49.00	1851.13	408.69	2102 38	1625.96	152.63	37.39	5900.00	0.0041	1.66	19.53	134.06	32.85	5900.00	0.0041	8.53	20.69	14.77	11.83	19.69	19.69
VANO 9	48.00	50.00	2366.13	432.68	2177 16	1710.30	195.09	47.80	5900.00	0.0041	1.76	24.78	141.02	34.55	5900.00	0.0041	8.84	21.68	14.77	11.83	20.69	20.69
VANO 10	0.00	1.00	2316.53	710.45	2116 28	1713.85	191 00	46.80	5900.00	0.0041	2.88	24.84	141.31	34.62	5900.00	0.0041	8.59	21.61	14.77	11.83	24.78	24.78
VANO 10	1.20	2.00	1801.53	683.29	2041 61	1629.51	148.54	36.39	5900.00	0.0041	2.77	19.58	134.36	32.92	5900.00	0.0041	8.29	20.60	14.77	11.83	24.84	24.84
VANO 10	2.40	3.00	1698.44	656.36	1969 25	1545.03	140.04	34.31	5900.00	0.0041	2.66	18.49	127.39	31.21	5900.00	0.0041	7.99	19.60	14.77	11.83	20.60	20.60
VANO 10	3.60	4.00	1605.64	629.66	1898 61	1460.43	132.39	32 43	5900.00	0.0041	2.56	17.50	120.41	29.50	5900.00	0.0041	7.71	18.60	14.77	11.83	19.60	19.60
VANO 10	4.80	5.00	1513.50	603.18	1829 89	1375.69	124.79	30.57	5900.00	0.0041	2.45	16.51	113.43	27.79	5900.00	0.0041	7.43	17.61	14.77	11.83	18.60	18.60
VANO 10	4.80	6.00	1513.50	603.18	1829 89	1375.69	124.79	30.57	5900.00	0.0041	2.45	16.51	113.43	27.79	5900.00	0.0041	7.43	17.61	14.77	11.83	17.61	17.61
VANO 10	6.00	7.00	1422.07	576.92	1763 09	1290.84	117.25	28.73	5900.00	0.0041	2.34	15.53	106.43	26.08	5900.00	0.0041	7.16	16.62	14.77	11.83	17.61	17.61
VANO 10	7.20	8.00	1331.41	550.89	1698 23	1205.87	109.78	26.90	5900.00	0.0041	2.24	14.57	99.43	24.36	5900.00	0.0041	6.89	15.63	14.77	11.83	16.62	16.62
VANO 10	8.40	9.00	1232.18	525.09	1635.24	1120.78	101.60	24.89	5900.00	0.0041	2.13	13.51	92.41	22.64	5900.00	0.0041	6.64	14.64	14.77	11.83	15.63	15.63
VANO 10	9.60	10.00	1130.68	499.51	1574 13	1035.59	93.23	22.84	5900.00	0.0041	2.03	12.43	85.39	20.92	5900.00	0.0041	6.39	13.65	14.77	11.83	14.77	14.64
VANO 10	9.60	11.00	1130.68	499.51	1574 13	1035.59	93.23	22.84	5900.00	0.0041	2.03	12.43	85.39	20.92	5900.00	0.0041	6.39	13.65	14.77	11.83	14.77	13.65
VANO 10	10.80	12.00	1030.10	474.16	1515.03	950.30	84.93	20.81	5900.00	0.0041	1.92	11.37	78.35	19.20	5900.00	0.0041	6.15	12.67	14.77	11.83	14.77	13 65
VANO 10	12.00	13.00	930.46	449.04	1457.85	864.92	76.72	18.80	5900.00	0.0041	1.82	10.31	71.31	17.47	5900.00	0.0041	5.92	11.69	14.77	11.83	14.77	12.67
VANO 10	13.20	14.00	831.83	424.14	1402.53	779.44	68.59	16.80	5900.00	0.0041	1 72	9.26	64.27	15.75	5900.00	0.0041	5.69	10.72	14.77	11.83	14.77	11.83
VANO 10	14.40	15.00	734.22	399.46	1349.19	693.89	60.54	14.83	5900.00	0.0041	1.62	8.23	57.21	14.02	5900.00	0.0041	5.48	9.75	14.77	11.83	14.77	11.83
VANO 10	14.40	16.00	717.28	399.46	1349.19	676.95	59.14	14.49	5900.00	0.0041	1.62	8.06	55.82	13.67	5900.00	0.0041	5.48	9.58	14.77	11.83	14.77	11.83
VANO 10	15.60	17.00	620.74	375.01	1297.73	591.32	51.18	12.54	5900.00	0.0041	1 52	7.03	48.76	11.95	5900.00	0.0041	5.27	8.61	14.77	11.83	14.77	11.83
VANO 10	16.80	18.00	525.30	350.79	1246.43	505.63	43.31	10.61	5900.00	0.0041	1.42	6.02	41.69	10.21	5900.00	0.0041	5.07	7.64	14.77	11.83	14.77	11.83
VANO 10	18.00	19.00	430.99	326.79	1203.80	419.89	35.54	8.71	5900.00	0.0041	1.33	5.02	34.62	8.48	5900.00	0.0041	4.89	6.68	14.77	11.83	14.77	11.83
VANO 10	19.20	20.00	489.77	177.07	1161.17	334.10	40.38	9.89	5900.00	0.0041	0.72	5.31	27.55	6.75	5900.00	0.0041	4.71	5.73	14.77	11.83	14.77	11.83
VANO 10	19.20	21.00	489.77	177.07	1161.17	334.10	40.38	9.89	5900.00	0.0041	0.72	5.31	27.55	6.75	5900.00	0.0041	4.71	5.73	14.77	11.83	14.77	11.83
VANO 10	20.40	22.00	567.43	166.70	1120.93	248.27	46.79	11.46	5900.00	0.0041	0.68	6.07	20.47	5.02	5900.00	0.0041	4.55	4.78	14.77	11.83	14.77	11.83
VANO 10	21.60	23.00	646.40	156.32	1085.11	162.41	53.30	13.06	5900.00	0.0041	0.63	6.85	13.39	3.28	5900.00	0.0041	4.40	3.84	14.77	11.83	14.77	11.83
VANO 10	22.80	24.00	726.69	145.95	1056.71	77.40	59.92	14.68	5900.00	0.0041	0.59	7.64	6.38	1.56	5900.00	0.0041	4.29	2.93	14.77	11.83	14.77	11.83
VANO 10	24.00	25.00	399.83	135.57	1081.33	9.42	32.97	8.08	5900.00	0.0041	0.55	4.31	0.78	0.19	5900.00	0.0041	4.39	2.29	14.77	11.83	14.77	11.83
VANO 10	24.00	26.00	399.83	135 57	1081.33	9.42	32.97	8.08	5900.00	0.0041	0.55	4.31	0.78	0.19	5900.00	0.0041	4.39	2.29	14.77	11.83	14.77	11.83
VANO 10	25.20	27.00	711.62	187.04	1118.3	95.30	58.67	14.38	5900.00	0.0041	0.76	7.57	7.86	1.93	5900.00	0.0041	4.54	3.23	14.77	11.83	14.77	11.83
VANO 10	26.40	28.00	631.31	164.70	1157.44	181.18	52.05	12.75	5900.00	0.0041	0.67	6.71	14.94	3.66	5900.00	0.0041	4.70	4.18	14.77	11.83	14.77	11.83
VANO 10	27.60	29.00	552.32	142.63	1198.61	267.03	45.54	11.16	5900.00	0.0041	0 58	5.87	22.02	5.39	5900.00	0.0041	4.87	5.13	14.77	11.83	14.77	11.83
VANO 10	28.80	30.00	474.65	120.83	1242.09	352.86	39.14	9.59	5900.00	0.0041	0.49	5.04	29.09	7.13	5900.00	0.0041	5.04	6.08	14.77	11.83	14.77	11.83
VANO 10	28.80	31.00	474.65	120 83	1242.09	352.86	39.14	9.59	5900.00	0.0041	0.49	5.04	29.09	7.13	5900.00	0.0041	5.04	6.08	14.77	11.83	14.77	11.83
VANO 10	30.00	32.00	441.60	111.38	1287.55	438.65	36.41	8.92	5900.00	0.0041	0.45	4.69	36.17	8.86	5900.00	0.0041	5.23	7.04	14.77	11.83	14.77	11.83
VANO 10	31.20	33.00	535.90	124.89	1335.06	524.39	44.19	10.83	5900.00	0.0041	0.51	5.67	43.24	10.59	5900.00	0.0041	5.42	8.01	14.77	11.83	14.77	11.83
VANO 10	32.40	34.00	631.32	143.44	1384.50	610.08	52.05	12.75	5900.00	0.0041	0.58	6.67	50.30	12.32	5900.00	0.0041	5.62	8.97	14.77	11.83	14.77	11.83
VANO 10	33.60	35.00	727.84	163.77	1435.85	695.70	60.01	14.70	5900.00	0.0041	0.66	7.68	57.36	14.05	5900.00	0.0041	5.83	9.94	14.77	11.82	14.77	11.83
VANO 10	33.60	36.00	727.84	163.77	1435.85	695.70	60.01	14.70	5900.00	0.0041	0.66	7.68	57.36	14.05	5900.00	0.0041	5.83	9.94	14.77	11.83	14.77	11.83
VANO 10	34.80	37.00	825.43	184.39	1489.12	781.25	68.06	16.67	5900.00	0.0041	0.75	8.71	64.42	15.78	5900.00	0.0041	6.04	10.91	14.77	11.83	14.77	11.83
VANO 10	36.00	38.00	924.05	205.23	1544.31	866.72	76.19	18.67	5900.00	0.0041	0.83	9.75	71.46	17.51	5900.00	0.0041	6.27	11.89	14.77	11.83	14.77	11.89
VANO 10	37.20	39.00	1023.67	226.30	1601.42	952.11	84.40	20.68	5900.00	0.0041	0.92	10.80	78.50	19.23	5900.00	0.0041	6.50	12.87	14.77	11.83	14.77	12.87
VANO 10	38.40	40.00	1124.25	247.59	1660.45	1037.39	92.70	22.71	5900.00	0.0041	1.01	11.86	85.53	20.96	5900.00	0.0041	6.74	13.85	14.77	11.83	14.77	13.85
VANO 10	38.40	41.00	1124.25	247.59	1660.45	1037.39	92.70	22.71	5900.00	0.0041	1.01	11.86	85.53	20.96	5900.00	0.0041	6.74	13.85	14.77	11.83	14.77	13.85
VANO 10	39.60	42.00	1225.73	269.50	1721.40	1122.58	101.06	24.76	5900.00	0.0041	1.09	12.93	92.56	22.68	5900.00	0.0041	6.99	14.83	14.77	11.83	14.83	14.83
VANO 10	40.80	43.00	1328.09	292.13	1784.26	1207.66	109.50	26.83	5900.00	0.0041	1.19	14.01	99.57	24.40	5900.00	0.0041	7.24	15.82	14.77	11.83	15.82	15.82
VANO 10	42.00	44.00	1431.26	314.99	1849.04	1292.63	118.01	28.91	5900.00	0.0041	1.28	15.10	106.58	26.11	5900.00	0.0041	7.51	16.81	14.77	11.83	16.81	16.81
VANO 10	43.20	45.00	1535.21	338.08	1915.75	1377.48	126.58	31.01	5900.00	0.0041	1.37	16.19	113.58	27.83	5900.00	0.0041	7.78	17.80	14.77	11.83	17.80	17.80
VANO 10	43.20	46.00	1535.21	338.08	1915.75	1377.48	126.58	31.01	5900.00	0.0041	1.37	16.19	113.58	27.83	5900.00	0.0041	7.78	17.80	14.77	11.83	17.80	17.80
VANO 10	44.40	47.00	1639.87	361.39	1984.37	1482.20	135.21	33.13	5900.00	0.0041	1.47	17.30	120.56	29.54	5900.00	0.0041	8.05	18.80	14.77	11.83	18.80	18.80
VANO 10	45.60	48.00	1745.20	384.93	2054.91	1546.80	143.89	35.25	5900.00	0.0041	1.56	18.41	127.54	31.25	5900.00	0.0041	8.34	19.79	14.77	11.83	19.79	19.79
VANO 10	46.80	49.00	1851.13	408.69	2127.37	1631.28	152.63	37.39	5900.00	0.0041	1.66	19.53	134.50	32.95	5900.00	0.0041	8.64	20.79	14.77	11.83	20.79	20.79

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
		14	Variables
Nº TENDON	6		
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR JUNTO AL ALMA

CARACT. RASANTE	
M est (S5)=	1.65
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.082
Canto sec=	0.33

CARACTERISTICAS TORSOR			
fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipóteris max torsor Td max	Vd con	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	FLEXIÓN TRANS As int	ARMADO DEFINITIV As ext	ARMADO DEFINITIV As int
VANO 11	0.00	1.00	2316.53	710.45	2048.18	1722.87	191.00	46.80	5900.00	0.0041	2.88	24.84	142.05	34.80	5900.00	0.0041	8.31	21.55	14.77	11.83	24.84	24.84
VANO 11	1.20	2.00	1801.53	683.29	1971.67	1638.53	148.54	36.39	5900.00	0.0041	2.77	19.58	135.10	33.10	5900.00	0.0041	8.00	20.55	14.77	11.83	20.55	20.55
VANO 11	2.40	3.00	1698.44	656.36	1899.08	1554.05	140.04	34.31	5900.00	0.0041	2.66	18.49	128.13	31.39	5900.00	0.0041	7.71	19.55	14.77	11.83	19.55	19.55
VANO 11	3.60	4.00	1605.64	629.66	1828.42	1469.45	132.39	32.43	5900.00	0.0041	2.56	17.50	121.16	29.68	5900.00	0.0041	7.42	18.55	14.77	11.83	18.55	18.55
VANO 11	4.80	5.00	1513.50	603.18	1759.69	1384.72	124.79	30.57	5900.00	0.0041	2.45	16.51	114.17	27.97	5900.00	0.0041	7.14	17.56	14.77	11.83	17.56	17.56
VANO 11	4.80	6.00	1513.50	603.18	1759.69	1384.72	124.79	30.57	5900.00	0.0041	2.45	16.51	114.17	27.97	5900.00	0.0041	7.14	17.56	14.77	11.83	17.56	17.56
VANO 11	6.00	7.00	1422.07	576.92	1692.88	1299.87	117.25	28.73	5900.00	0.0041	2.34	15.53	107.18	26.26	5900.00	0.0041	6.87	16.56	14.77	11.83	16.56	16.56
VANO 11	7.20	8.00	1331.41	550.89	1622.99	1214.90	109.78	26.90	5900.00	0.0041	2.24	14.57	100.17	24.54	5900.00	0.0041	6.61	15.58	14.77	11.83	15.58	15.58
VANO 11	8.40	9.00	1232.18	525.09	1556.03	1129.81	101.60	24.89	5900.00	0.0041	2.13	13.51	93.16	22.82	5900.00	0.0041	6.35	14.59	14.77	11.83	14.77	14.59
VANO 11	9.60	10.00	1130.68	499.51	1506.42	1044.63	93.23	22.84	5900.00	0.0041	2.03	12.43	86.13	21.10	5900.00	0.0041	6.11	13.61	14.77	11.83	14.77	13.61
VANO 11	9.60	11.00	1130.68	499.51	1506.42	1044.63	93.23	22.84	5900.00	0.0041	2.03	12.43	86.13	21.10	5900.00	0.0041	6.11	13.61	14.77	11.83	14.77	13.61
VANO 11	10.80	12.00	1030.10	474.16	1456.27	959.34	84.93	20.81	5900.00	0.0041	1.92	11.37	79.10	19.38	5900.00	0.0041	5.89	12.63	14.77	11.83	14.77	12.63
VANO 11	12.00	13.00	930.46	449.04	1396.03	873.95	76.72	18.80	5900.00	0.0041	1.82	10.31	72.06	17.65	5900.00	0.0041	5.67	11.66	14.77	11.83	14.77	11.83
VANO 11	13.20	14.00	831.83	424.14	1342.77	788.48	68.59	16.80	5900.00	0.0041	1.72	9.26	65.01	15.93	5900.00	0.0041	5.45	10.69	14.77	11.83	14.77	11.83
VANO 11	14.40	15.00	734.22	399.46	1293.46	702.93	60.54	14.83	5900.00	0.0041	1.62	8.23	57.96	14.20	5900.00	0.0041	5.25	9.73	14.77	11.83	14.77	11.83
VANO 11	14.40	16.00	717.28	399.46	1293.46	685.99	59.14	14.49	5900.00	0.0041	1.62	8.06	56.56	13.86	5900.00	0.0041	5.25	9.55	14.77	11.83	14.77	11.83
VANO 11	15.60	17.00	620.74	375.01	1245.81	600.36	51.18	12.54	5900.00	0.0041	1.52	7.03	49.50	12.13	5900.00	0.0041	5.06	8.59	14.77	11.83	14.77	11.83
VANO 11	16.80	18.00	525.30	350.79	1200.24	514.67	43.31	10.61	5900.00	0.0041	1.42	6.02	42.44	10.40	5900.00	0.0041	4.87	7.63	14.77	11.83	14.77	11.83
VANO 11	18.00	19.00	430.99	326.79	1155.67	428.93	35.54	8.71	5900.00	0.0041	1.33	5.02	35.37	8.66	5900.00	0.0041	4.71	6.69	14.77	11.83	14.77	11.83
VANO 11	19.20	20.00	489.77	177.07	1124.41	343.13	40.38	9.89	5900.00	0.0041	0.72	5.31	28.29	6.93	5900.00	0.0041	4.56	5.75	14.77	11.83	14.77	11.83
VANO 11	19.20	21.00	489.77	177.07	1124.41	343.13	40.38	9.89	5900.00	0.0041	0.72	5.31	28.29	6.93	5900.00	0.0041	4.56	5.75	14.77	11.83	14.77	11.82
VANO 11	20.40	22.00	567.43	166.70	1091.28	257.31	46.79	11.46	5900.00	0.0041	0.68	6.07	21.22	5.20	5900.00	0.0041	4.43	4.81	14.77	11.83	14.77	11.83
VANO 11	21.60	23.00	646.40	156.32	1072.39	173.29	53.30	13.06	5900.00	0.0041	0.63	6.85	14.29	3.50	5900.00	0.0041	4.35	3.93	14.77	11.83	14.77	11.83
VANO 11	22.80	24.00	726.69	145.95	1088.53	86.52	59.92	14.68	5900.00	0.0041	0.59	7.64	7.13	1.75	5900.00	0.0041	4.42	3.08	14.77	11.83	14.77	11.83
VANO 11	24.00	25.00	399.83	135.57	1119.74	1.70	32.97	8.08	5900.00	0.0041	0.55	4.31	0.14	0.03	5900.00	0.0041	4.55	2.29	14.77	11.83	14.77	11.83
VANO 11	24.00	26.00	399.83	135.57	1119.74	1.70	32.97	8.08	5900.00	0.0041	0.55	4.31	0.14	0.03	5900.00	0.0041	4.55	2.29	14.77	11.83	14.77	11.83
VANO 11	25.20	27.00	711.62	187.04	1156.83	86.22	58.67	14.38	5900.00	0.0041	0.76	7.57	7.11	1.74	5900.00	0.0041	4.70	3.22	14.77	11.83	14.77	11.83
VANO 11	26.40	28.00	631.31	164.70	1196.05	172.09	52.05	12.75	5900.00	0.0041	0.67	6.71	14.19	3.48	5900.00	0.0041	4.86	4.17	14.77	11.83	14.77	11.83
VANO 11	27.60	29.00	552.32	142.63	1237.41	257.95	45.54	11.16	5900.00	0.0041	0.58	5.87	21.27	5.21	5900.00	0.0041	5.02	5.12	14.77	11.83	14.77	11.83
VANO 11	28.80	30.00	474.65	120.83	1280.90	343.78	39.14	9.59	5900.00	0.0041	0.49	5.04	28.35	6.94	5900.00	0.0041	5.20	6.07	14.77	11.83	14.77	11.83
VANO 11	28.80	31.00	474.65	120.83	1280.90	343.78	39.14	9.59	5900.00	0.0041	0.49	5.04	28.35	6.94	5900.00	0.0041	5.20	6.07	14.77	11.83	14.77	11.83
VANO 11	30.00	32.00	441.60	111.38	1326.51	429.57	36.41	8.92	5900.00	0.0041	0.45	4.69	35.42	8.68	5900.00	0.0041	5.38	7.03	14.77	11.83	14.77	11.83
VANO 11	31.20	33.00	535.90	124.89	1374.16	515.32	44.19	10.83	5900.00	0.0041	0.51	5.67	42.49	10.41	5900.00	0.0041	5.58	7.99	14.77	11.83	14.77	11.83
VANO 11	32.40	34.00	631.32	143.44	1423.73	601.01	52.05	12.75	5900.00	0.0041	0.58	6.67	49.55	12.14	5900.00	0.0041	5.78	8.96	14.77	11.83	14.77	11.83
VANO 11	33.60	35.00	727.84	163.77	1475.23	686.63	60.01	14.70	5900.00	0.0041	0.66	7.68	56.61	13.87	5900.00	0.0041	5.99	9.93	14.77	11.83	14.77	11.83
VANO 11	33.60	36.00	727.84	163.77	1475.23	686.63	60.01	14.70	5900.00	0.0041	0.66	7.68	56.61	13.87	5900.00	0.0041	5.99	9.93	14.77	11.83	14.77	11.83
VANO 11	34.80	37.00	825.43	184.39	1528.35	772.18	68.06	16.67	5900.00	0.0041	0.75	8.71	63.67	15.60	5900.00	0.0041	6.21	10.90	14.77	11.83	14.77	11.83
VANO 11	36.00	38.00	924.05	205.23	1584.30	857.66	76.19	18.67	5900.00	0.0041	0.83	9.75	70.72	17.33	5900.00	0.0041	6.43	11.88	14.77	11.83	14.77	11.83
VANO 11	37.20	39.00	1023.67	226.30	1641.27	943.04	84.40	20.68	5900.00	0.0041	0.92	10.80	77.76	19.05	5900.00	0.0041	6.66	12.86	14.77	11.83	14.77	11.88
VANO 11	38.40	40.00	1124.25	247.59	1700.17	1028.33	92.70	22.71	5900.00	0.0041	1.01	11.86	84.79	20.77	5900.00	0.0041	6.90	13.84	14.77	11.83	14.77	12.86
VANO 11	38.40	41.00	1124.25	247.59	1700.17	1028.33	92.70	22.71	5900.00	0.0041	1.01	11.86	84.79	20.77	5900.00	0.0041	6.90	13.84	14.77	11.83	14.77	13.84
VANO 11	39.60	42.00	1225.73	269.50	1761.30	1113.52	101.06	24.76	5900.00	0.0041	1.09	12.93	91.81	22.49	5900.00	0.0041	7.15	14.82	14.77	11.83	14.77	13.84
VANO 11	40.80	43.00	1328.09	292.13	1824.34	1198.60	109.50	26.83	5900.00	0.0041	1.19	14.01	98.83	24.21	5900.00	0.0041	7.41	15.81	14.77	11.83	14.77	14.82
VANO 11	42.00	44.00	1431.26	314.99	1889.12	1283.57	118.01	28.91	5900.00	0.0041	1.28	15.10	105.83	25.93	5900.00	0.0041	7.67	16.80	14.77	11.83	14.77	15.81
VANO 11	43.20	45.00	1535.21	338.08	1956.52	1368.43	126.58	31.01	5900.00	0.0041	1.37	16.19	112.83	27.64	5900.00	0.0041	7.94	17.79	14.77	11.83	14.77	16.80
VANO 11	43.20	46.00	1535.21	338.08	1956.52	1368.43	126.58	31.01	5900.00	0.0041	1.37	16.19	112.83	27.64	5900.00	0.0041	7.94	17.79	14.77	11.83	14.77	17.79
VANO 11	44.40	47.00	1639.87	361.39	2025.14	1453.16	135.21	33.13	5900.00	0.0041	1.47	17.30	119.82	29.35	5900.00	0.0041	8.22	18.79	14.77	11.83	14.77	17.79
VANO 11	45.60	48.00	1745.20	384.93	2096.19	1537.76	143.89	35.25	5900.00	0.0041	1.56	18.41	126.79	31.06	5900.00	0.0041	8.51	19.79	14.77	11.83	14.77	18.79
VANO 11	46.80	49.00	1851.13	408.69	2168.17	1622.24	152.63	37.39	5900.00	0.0041	1.66	19.53	133.76	32.77	5900.00	0.0041	8.80	20.79	14.77	11.83	14.77	19.79
VANO 11	48.00	50.00	2366.13	432.68	2243.17	1706.58	195.09	47.80	5900.00	0.0041	1.76	24.73	140.71	34.47	5900.00	0.0041	9.11	21.79	14.77	11.83	24.78	20.79
VANO 12	0.00	1.00	2316.53	710.45	2093.10	1716.19	191.00	46.80	5900.00	0.0041	2.88	24.84	141.50	34.67	5900.00	0.0041	8.50	21.58	14.77	11.83	24.84	24.78
VANO 12	1.20	2.00	1801.53	683.29	2018.16	1631.85	148.54	36.39	5900.00	0.0041	2.77	19.58	134.55	32.96	5900.00	0.0041	8.19	20.58	14.77	11.83	24.84	24.84
VANO 12	2.40	3.00	1698.44	656.36	1945.16	1547.38	140.04	34.31	5900.00	0.0041	2.66	18.49	127.58	31.26	5900.00	0.0041	7.90	19.58	14.77	11.83	20.58	20.58
VANO 12	3.60	4.00	1605.64	629.66	1874.00	1462.78	132.39	32.43	5900.00	0.0041	2.56	17.50	120.61	29.55	5900.00	0.0041	7.61	18.58	14.77	11.83	19.58	19.58
VANO 12	4.80	5.00	1513.50	603.18	1804.18	1378.05	124.79	30.57	5900.00	0.0041	2.45	16.51	113.62	27.84	5900.00	0.0041	7.33	17.58	14.77	11.83	18.58	18.58
VANO 12	4.80	6.00	1513.50	603.18	1804.18	1378.05	124.79	30.57	5900.00	0.0041	2.45	16.51	113.62	27.84	5900.00	0.0041	7.33	17.58	14.77	11.83	17.58	17.58
VANO 12	6.00	7.00	1422.07	576.92	1737.50	1293.20	117.25	28.73	5900.00	0.0041	2.34	15.53	106.63	26.12	5900.00	0.0041	7.05	16.59	14.77	11.83	16.59	17.58
VANO 12	7.20	8.00	1331.41	550.89	1672.16	1208.23	109.78	26.90	5900.00	0.0041	2.24	14.57	99.62	24.41	5900.00	0.0041	6.79	15.60	14.77	11.83	15.60	16.59
VANO 12	8.40	9.00	1232.18	525.09	1608.17	1123.15	101.60	24.89	5900.00	0.0041	2.13	13.51	92.61	22.69	5900.00	0.0041	6.53	14.61	14.77	11.83	14.77	15.60
VANO 12	9.60	10.00	1130.68	499.51	1547.31	1037.96	93.23	22.84	5900.00	0.0041	2.03	12.43	85.58	20.97	5900.00	0.0041	6.28	13.62	14.77	11.83	14.77	14.61
VANO 12	9.60	11.00	1130.68	499.51	1547.31	1037.96	93.23	22.84	5900.00	0.0041	2.03	12.43	85.58	20.97	5900.00	0.0041	6.28	13.62	14.77	11.83	14.77	13.62
VANO 12	10.80	12.00	1030.10	474.16	1487.60	952.67	84.93	20.81	5900.00	0.0041	1.92	11.37	78.55	19.24	5900.00	0.0041	6.04	12.64	14.77	11.83	14.77	13.62
VANO 12	12.00	13.00	930.46	449.04	1430.22	867.29	76.72	18.80	5900.00	0.0041	1.82	10.31	71.51	17.52	5900.00	0.0041	5.81	11.66	14.77	11.83	14.77	12.64
VANO 12	13.20	14.00	831.83	424.14	1374.59	781.81	68.59	16.80	5900.00	0.0041	1.72	9.26	64.46	15.79	5900.00	0.0041	5.58	10.69	14.77	11.83	14.77	11.83
VANO 12	14.40	15.00	734.22	399.46	1320.50	696.26	60.54	14.83	5900.00	0.0041	1.62	8.23	57.41	14.06	5900.00	0.0041	5.36	9.71	14.77	11.83	14.77	11.83
VANO 12	14.40	16.00	717.28	399.46	1320.50	679.32	59.14	14.49	5900.00	0.0041	1.62	8.06	56.01	13.72	5900.00	0.0041	5.36	9.54	14.77	11.83	14.77	11.83
VANO 12	15.60	17.00	620.74	375.01	1269.15	593.70	51.18	12.54	5900.00	0.0041	1.52	7.03	48.95	11.99	5900.00	0.0041	5.15	8.57	14.77	11.83	14.77	11.83
VANO 12	16.80	18.00	525.30	350.79	1219.34	508.01	43.31	10.61	5900.00	0.0041	1.42	6.02	41.89	10.26	5900.00	0.0041	4.95	7.61	14.77	11.83	14.77	11.83
VANO 12	18.00	19.00	430.99	326.79	1171.47	422.27	35.54	8.71	5900.00	0.0041	1.33	5.02	34.82	8.53	5900.00	0.0041	4.76	6.64	14.77	11.83	14.77	11.83
VANO 12	19.20	20.00	489.77	177.07	1125.61	336.48	40.38	9.89	5900.00	0.0041	0.72	5.31	27.74	6.80	5900.00	0.0041	4.57	5.68	14.77	11.83	14.77	11.83
VANO 12	19.20	21.00	489.77	177.07	1125.61	336.48	40.38	9.89	5900.00	0.0041	0.72	5.31	27.74	6.80	5900.00	0.0041	4.57	5.68	14.77	11.83	14.77	11.83
VANO 12	20.40	22.00	567.43	166.70	1081.97	250.65	46.79	11.46	5900.00	0.0041	0.68	6.07	20.67	5.06	5900.00	0.0041	4.39	4.73	14.77	11.83	14.77	11.83
VANO 12	21.60	23.00	646.40	156.32	1042.93	164.79	53.30	13.06	5900.00	0.0041	0.63	6.85	13.59	3.33	5900.00	0.0041	4.23	3.78	14.77	11.83	14.77	11.83
VANO 12	22.80	24.00	726.69	145.95	1007.23	78.92	59.92	14.68	5900.00	0.0041	0.59	7.64	6.51	1.59	5900.00	0.0041	4.09	2.84	14.77	11.83	14.77	11.83
VANO 12	24.00	25.00	399.83	135.57	1006.77	6.97	32.97	8.08	5900.00	0.0041	0.55	4.31	0.57	0.14	5900.00	0.0041	4.09	2.11	14.77	11.83	14.77	11.83
VANO 12	24.00	26.00	399.83	135.57	1006.77	6.97	32.97	8.08	5900.00	0.0041	0.55	4.31	0.57	0.14	5900.00	0.0041	4.09	2.11	14.77	11.83	14.77	11.83
VANO 12	25.20	27.00	711.62	187.04	1043.80	92.85	58.67	14.38	5900.00	0.0041	0.76	7.57	7.66	1.88	5900.00	0.0041	4.24	3.06	14.77	11.83	14.77	11.83
VANO 12	26.40	28.00	631.31	164.70	1082.99	178.73	52.05	12.75	5900.00	0.0041	0.67	6.71	14.74	3.61	5900.00	0.0041	4.40	4.00	14.77	11.83	14.77	11.83
VANO 12	27.60	29.00	552.32	142.63	1124.33	264.58	45.54	11.16	5900.00	0.0041	0.58	5.87	21.82	5.34	5900.00	0.0041	4.56	4.95	14.77	11.83	14.77	11.83
VANO 12	28.80	30.00	474.65	120.83	1167.80	350.41	39.14	9.59	5900.00	0.0041	0.49	5.04	28.89	7.08	5900.00	0.0041	4.74	5.91	14.77	11.83	14.77	11.83
VANO 12	28.80	31.00	474.65	120.83	1167.80	350.41	39.14	9.59	5900.00	0.0041	0.49	5.04	28.89	7.08	5900.00	0.0041	4.74	5.91	14.77	11.83	14.77	11.83
VANO 12	30.00	32.00	441.60	111.38	1213.45	436.20	36.41	8.92	5900.00	0.0041	0.45	4.69	35.97	8.81	5900.00	0.0041	4.93	6.87	14.77	11.83	14.77	11.83
VANO 12	31.20	33.00	535.90	124.89	1261.10	521.94	44.19	10.83	5900.00	0.0041	0.51	5.67	43.03	10.54	5900.00	0.0041	5.12	7.83	14.77	11.83	14.77	11.83
VANO 12	32.40	34.00	631.32	143.44	1310.72	607.63	52.05	12.75	5900.00	0.0041	0.58	6.67	50.10	12.27	5900.00	0.0041	5.32	8.80	14.77	11.83	14.77	11.83
VANO 12	33.60	35.00	727.84	163.77	1362.27	693.25	60.01	14.70	5900.00	0.0041	0.66	7.68	57.16	14.00	5900.00	0.0041	5.53	9.77	14.77	11.83	14.77	11.83
VANO 12	33.60	36.00	727.84	163.77	1362.27	693.25	60.01	14.70	5900.00	0.0041	0.66	7.68	57.16	14.00	5900.00	0.0041	5.53	9.77	14.77	11.83	14.77	11.83
VANO 12	34.80	37.00	825.43	184.39	1415.77	778.80	68.06	16.67	5900.00	0.0041	0.75	8.71	64.21	15.73	5900.00	0.0041	5.75	10.74	14.77	11.83	14.77	11.83
VANO 12	36.00	38.00	924.05	205.23	1471.21	864.27	76.19	18.67	5900.00	0.0041	0.83	9.75	71.26	17.46	5900.00	0.0041	5.97	11.72	14.77	11.83	14.77	11.83
VANO 12	37.20	39.00	1023.67	226.30	1528.58	949.65	84.40	20.68	5900.00	0.0041	0.92	10.80	78.30	19.18	5900.00	0.0041	6.20	12.69	14.77	11.83	14.77	11.83
VANO 12	38.40	40.00	1124.25	247.59	1587.90	1034.94	92.70	22.71	5900.00	0.0041	1.01	11.86	85.33	20.91	5900.00	0.0041	6.45	13.68	14.77	11.83	14.77	12.69
VANO 12	38.40	41.00	1124.25	247.59	1587.90	1034.94	92.70	22.71	5900.00	0.0041	1.01	11.86	85.33	20.91	5900.00	0.0041	6.45	13.68	14.77	11.83	14.77	13.68
VANO 12	39.60	42.00	1225.73	269.50	1649.16	1120.12	101.06	24.76	5900.00	0.0041	1.09	12.93	92.36	22.63	5900.00	0.0041	6.69	14.66	14.77	11.83	14.77	13.68
VANO 12	40.80	43.00	1328.09	292.13	1712.37	1205.20	109.50	26.83	5900.00	0.0041	1.19	14.01	99.37	24.35	5900.00	0.0041	6.95	15.65	14.77	11.83	14.77	14.66
VANO 12	42.00	44.00	1431.26	314.99	1777.51	1290.17	118.01	28.91	5900.00	0.0041	1.28	15.10	106.38	26.06	5900.00	0.0041	7.22	16.64	14.77	11.83	15.65	15.65
VANO 12	43.20	45.00	1535.21	338.08	1844.59	1375.02	126.58	31.01	5900.00	0.0041	1.37	16.19	113.37	27.78	5900.00	0.0041	7.49	17.63	14.77	11.83	16.64	16.64
VANO 12	43.20	46.00	1535.21	338.08	1844.59	1375.02	126.58	31.01	5900.00	0.0041	1.37	16.19	113.37	27.78	5900.00	0.0041	7.49	17.63	14.77	11.83	17.63	17.63
VANO 12	44.40	47.00	1639.87	361.39	1913.61	1459.75	135.21	33.13	5900.00	0.0041	1.47	17.30	120.36	29.49	5900.00	0.0041	7.77	18.63	14.77	11.83	17.63	17.63
VANO 12	45.60	48.00	1745.20	384.93	1984.58	1544.35	143.89	35.25	5900.00	0.0041	1.56	18.41	127.33	31.20	5900.00	0.0041	8.06	19.63	14.77	11.83	18.63	18.63
VANO 12	46.80	49.00	1851.13	408.69	2057.49	1628.82	152.63	37.39	5900.00	0.0041	1.66	19.53	134.30	32.90	5900.00	0.0041	8.35	20.63	14.77	11.83	19.63	20.63

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 8 PILA
I	20 008	24.9687
ys	1 495	1.754
yi	2 505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S5)=	1.65
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.082
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante		Hipótesis max torsor		Dos caras				Una cara	Dos caras				Una cara	FLEXIÓN TRANS			
			Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 13	0.00	1.00	2316.53	710.45	2174.48	1715.93	191.00	46.80	5900.00	0.0041	2.88	24.84	141.48	34.66	5900.00	0.0041	8.63	21.74	14.77	11.83	24.84	24.84
VANO 13	1.20	2.00	1801.53	683.29	2099.85	1631.58	148.54	36.39	5900.00	0.0041	2.77	19.58	134.53	32.96	5900.00	0.0041	8.52	20.74	14.77	11.83	20.74	20.74
VANO 13	2.40	3.00	1698.44	656.36	2027.14	1547.10	140.04	34.31	5900.00	0.0041	2.66	18.49	127.56	31.25	5900.00	0.0041	8.23	19.74	14.77	11.83	19.74	19.74
VANO 13	3.60	4.00	1605.64	629.66	1956.37	1462.50	132.39	32.43	5900.00	0.0041	2.56	17.50	120.59	29.54	5900.00	0.0041	7.94	18.74	14.77	11.83	18.74	18.74
VANO 13	4.80	5.00	1513.50	603.18	1887.51	1377.76	124.79	30.57	5900.00	0.0041	2.45	16.51	113.60	27.83	5900.00	0.0041	7.66	17.75	14.77	11.83	17.75	17.75
VANO 13	4.80	6.00	1513.50	603.18	1887.51	1377.76	124.79	30.57	5900.00	0.0041	2.45	16.51	113.60	27.83	5900.00	0.0041	7.66	17.75	14.77	11.83	17.75	17.75
VANO 13	6.00	7.00	1422.07	576.92	1820.59	1292.91	117.25	28.73	5900.00	0.0041	2.34	15.53	106.60	26.12	5900.00	0.0041	7.39	16.75	14.77	11.83	16.75	16.75
VANO 13	7.20	8.00	1331.41	550.89	1755.59	1207.93	109.78	26.90	5900.00	0.0041	2.24	14.57	99.60	24.40	5900.00	0.0041	7.13	15.76	14.77	11.83	15.76	15.76
VANO 13	8.40	9.00	1232.18	525.09	1692.52	1122.85	101.60	24.89	5900.00	0.0041	2.13	13.51	92.58	22.68	5900.00	0.0041	6.87	14.78	14.77	11.83	14.78	14.78
VANO 13	9.60	10.00	1130.68	499.51	1631.37	1037.65	93.23	22.84	5900.00	0.0041	2.03	12.43	85.56	20.96	5900.00	0.0041	6.62	13.79	14.77	11.83	14.77	13.79
VANO 13	9.60	11.00	1130.68	499.51	1631.37	1037.65	93.23	22.84	5900.00	0.0041	2.03	12.43	85.56	20.96	5900.00	0.0041	6.62	13.79	14.77	11.83	14.77	13.79
VANO 13	10.80	12.00	1030.10	474.16	1572.15	952.36	84.93	20.81	5900.00	0.0041	1.92	11.37	78.52	19.24	5900.00	0.0041	6.38	12.81	14.77	11.83	14.77	12.81
VANO 13	12.00	13.00	930.46	449.04	1514.15	866.97	76.72	18.80	5900.00	0.0041	1.82	10.31	71.48	17.51	5900.00	0.0041	6.15	11.83	14.77	11.83	14.77	11.83
VANO 13	13.20	14.00	831.83	424.14	1459.19	781.49	68.59	16.80	5900.00	0.0041	1.72	9.26	64.44	15.79	5900.00	0.0041	5.92	10.86	14.77	11.83	14.77	11.83
VANO 13	14.40	15.00	734.22	399.46	1406.14	695.94	60.54	14.83	5900.00	0.0041	1.62	8.23	57.38	14.06	5900.00	0.0041	5.71	9.88	14.77	11.83	14.77	11.83
VANO 13	14.40	16.00	717.28	399.46	1406.14	678.99	59.14	14.49	5900.00	0.0041	1.62	8.06	55.98	13.72	5900.00	0.0041	5.71	9.71	14.77	11.83	14.77	11.83
VANO 13	15.60	17.00	620.74	375.01	1354.63	593.36	51.18	12.54	5900.00	0.0041	1.52	7.03	48.92	11.99	5900.00	0.0041	5.50	8.74	14.77	11.83	14.77	11.83
VANO 13	16.80	18.00	525.30	350.79	1304.14	507.67	43.31	10.61	5900.00	0.0041	1.42	6.02	41.86	10.26	5900.00	0.0041	5.30	7.78	14.77	11.83	14.77	11.83
VANO 13	18.00	19.00	430.99	326.79	1257.27	421.92	35.54	8.71	5900.00	0.0041	1.33	5.02	34.79	8.52	5900.00	0.0041	5.10	6.81	14.77	11.83	14.77	11.83
VANO 13	19.20	20.00	489.77	177.07	1211.14	336.13	40.38	9.89	5900.00	0.0041	0.72	5.31	27.71	6.79	5900.00	0.0041	4.92	5.85	14.77	11.83	14.77	11.83
VANO 13	19.20	21.00	489.77	177.07	1211.14	336.13	40.38	9.89	5900.00	0.0041	0.72	5.31	27.71	6.79	5900.00	0.0041	4.92	5.85	14.77	11.83	14.77	11.83
VANO 13	20.40	22.00	567.43	166.70	1168.13	250.29	46.79	11.46	5900.00	0.0041	0.68	6.07	20.64	5.06	5900.00	0.0041	4.74	4.90	14.77	11.83	14.77	11.83
VANO 13	21.60	23.00	646.40	156.32	1126.77	164.43	53.30	13.06	5900.00	0.0041	0.63	6.85	13.56	3.32	5900.00	0.0041	4.57	3.95	14.77	11.83	14.77	11.83
VANO 13	22.80	24.00	726.69	145.95	1087.53	78.55	59.92	14.68	5900.00	0.0041	0.59	7.64	6.48	1.59	5900.00	0.0041	4.41	3.00	14.77	11.83	14.77	11.83
VANO 13	24.00	25.00	399.83	135.57	1050.03	7.36	32.97	8.08	5900.00	0.0041	0.55	4.31	0.61	0.15	5900.00	0.0041	4.26	2.21	14.77	11.83	14.77	11.83
VANO 13	24.00	26.00	399.83	135.57	1050.03	7.36	32.97	8.08	5900.00	0.0041	0.55	4.31	0.61	0.15	5900.00	0.0041	4.26	2.21	14.77	11.83	14.77	11.83
VANO 13	25.20	27.00	711.62	187.04	1053.00	93.23	58.67	14.38	5900.00	0.0041	0.76	7.57	7.69	1.88	5900.00	0.0041	4.27	3.08	14.77	11.83	14.77	11.83
VANO 13	26.40	28.00	631.31	164.70	1090.54	179.11	52.05	12.75	5900.00	0.0041	0.67	6.71	14.77	3.62	5900.00	0.0041	4.43	4.02	14.77	11.83	14.77	11.83
VANO 13	27.60	29.00	552.32	142.63	1132.04	264.97	45.54	11.16	5900.00	0.0041	0.58	5.87	21.85	5.35	5900.00	0.0041	4.60	4.97	14.77	11.83	14.77	11.83
VANO 13	28.80	30.00	474.65	120.83	1175.47	350.80	39.14	9.59	5900.00	0.0041	0.49	5.04	28.92	7.09	5900.00	0.0041	4.77	5.93	14.77	11.83	14.77	11.83
VANO 13	28.80	31.00	474.65	120.83	1175.47	350.80	39.14	9.59	5900.00	0.0041	0.49	5.04	28.92	7.09	5900.00	0.0041	4.77	5.93	14.77	11.83	14.77	11.83
VANO 13	30.00	32.00	441.60	111.38	1220.54	436.60	36.41	8.92	5900.00	0.0041	0.45	4.69	36.00	8.82	5900.00	0.0041	4.96	6.89	14.77	11.83	14.77	11.83
VANO 13	31.20	33.00	535.90	124.89	1268.43	522.35	44.19	10.83	5900.00	0.0041	0.51	5.67	43.07	10.55	5900.00	0.0041	5.15	7.85	14.77	11.83	14.77	11.83
VANO 13	32.40	34.00	631.32	143.44	1317.86	608.04	52.05	12.75	5900.00	0.0041	0.58	6.67	50.13	12.28	5900.00	0.0041	5.35	8.82	14.77	11.83	14.77	11.83
VANO 13	33.60	35.00	727.84	163.77	1369.20	693.67	60.01	14.70	5900.00	0.0041	0.66	7.68	57.19	14.01	5900.00	0.0041	5.56	9.79	14.77	11.83	14.77	11.83
VANO 13	33.60	36.00	727.84	163.77	1369.20	693.67	60.01	14.70	5900.00	0.0041	0.66	7.68	57.19	14.01	5900.00	0.0041	5.56	9.79	14.77	11.83	14.77	11.83
VANO 13	34.80	37.00	825.43	184.39	1422.48	779.22	68.06	16.67	5900.00	0.0041	0.75	8.71	64.25	15.74	5900.00	0.0041	5.77	10.76	14.77	11.83	14.77	11.83
VANO 13	36.00	38.00	924.05	205.23	1477.68	864.70	76.19	18.67	5900.00	0.0041	0.83	9.75	71.30	17.47	5900.00	0.0041	6.00	11.73	14.77	11.83	14.77	11.83
VANO 13	37.20	39.00	1023.67	226.30	1534.81	950.09	84.40	20.68	5900.00	0.0041	0.92	10.80	78.34	19.19	5900.00	0.0041	6.23	12.71	14.77	11.83	14.77	12.71
VANO 13	38.40	40.00	1124.25	247.59	1593.85	1035.38	92.70	22.71	5900.00	0.0041	1.01	11.86	85.37	20.92	5900.00	0.0041	6.47	13.69	14.77	11.83	14.77	13.69
VANO 13	38.40	41.00	1124.25	247.59	1593.85	1035.38	92.70	22.71	5900.00	0.0041	1.01	11.86	85.37	20.92	5900.00	0.0041	6.47	13.69	14.77	11.83	14.77	13.69
VANO 13	39.60	42.00	1225.73	269.50	1654.81	1120.57	101.06	24.76	5900.00	0.0041	1.09	12.93	92.39	22.64	5900.00	0.0041	6.72	14.68	14.77	11.83	14.77	14.68
VANO 13	40.80	43.00	1328.09	292.13	1717.75	1205.65	109.50	26.83	5900.00	0.0041	1.19	14.01	99.41	24.35	5900.00	0.0041	6.97	15.66	14.77	11.83	14.77	15.66
VANO 13	42.00	44.00	1431.26	314.99	1782.53	1290.62	118.01	28.91	5900.00	0.0041	1.28	15.10	106.41	26.07	5900.00	0.0041	7.24	16.65	14.77	11.83	16.65	16.65
VANO 13	43.20	45.00	1535.21	338.08	1849.36	1375.47	126.58	31.01	5900.00	0.0041	1.37	16.19	113.41	27.79	5900.00	0.0041	7.51	17.65	14.77	11.83	17.65	17.65
VANO 13	43.20	46.00	1535.21	338.08	1849.36	1375.47	126.58	31.01	5900.00	0.0041	1.37	16.19	113.41	27.79	5900.00	0.0041	7.51	17.65	14.77	11.83	17.65	17.65
VANO 13	44.40	47.00	1639.87	361.39	1918.03	1460.21	135.21	33.13	5900.00	0.0041	1.47	17.30	120.40	29.50	5900.00	0.0041	7.79	18.64	14.77	11.83	18.64	18.64
VANO 13	45.60	48.00	1745.20	384.93	1988.61	1544.81	143.89	35.25	5900.00	0.0041	1.56	18.41	127.37	31.21	5900.00	0.0041	8.07	19.64	14.77	11.83	19.64	19.64
VANO 13	46.80	49.00	1851.13	408.69	2061.13	1629.29	152.63	37.39	5900.00	0.0041	1.66	19.53	134.34	32.91	5900.00	0.0041	8.37	20.64	14.77	11.83	20.64	20.64
VANO 13	48.00	50.00	2366.13	432.68	2135.61	1713.63	195.09	47.80	5900.00	0.0041	1.76	24.78	141.29	34.62	5900.00	0.0041	8.67	21.64	14.77	11.83	24.76	24.78
VANO 14	0.00	1.00	2316.53	710.45	2235.21	1721.92	191.00	46.80	5900.00	0.0041	2.88	24.84	141.98	34.78	5900.00	0.0041	9.07	21.93	14.77	11.83	24.84	24.84
VANO 14	1.20	2.00	1801.53	683.29	2160.23	1637.58	148.54	36.39	5900.00	0.0041	2.77	19.58	135.02	33.08	5900.00	0.0041	8.77	20.92	14.77	11.83	20.92	20.92
VANO 14	2.40	3.00	1698.44	656.36	2087.21	1553.11	140.04	34.31	5900.00	0.0041	2.66	18.49	128.06	31.37	5900.00	0.0041	8.47	19.92	14.77	11.83	19.92	19.92
VANO 14	3.60	4.00	1605.64	629.66	2016.11	1468.51	132.39	32.43	5900.00	0.0041	2.56	17.50	121.08	29.66	5900.00	0.0041	8.18	18.92	14.77	11.83	18.92	18.92
VANO 14	4.80	5.00	1513.50	603.18	1946.97	1383.78	124.79	30.57	5900.00	0.0041	2.45	16.51	114.09	27.95	5900.00	0.0041	7.90	17.93	14.77	11.83	17.93	17.93
VANO 14	4.80	6.00	1513.50	603.18	1946.97	1383.78	124.79	30.57	5900.00	0.0041	2.45	16.51	114.09	27.95	5900.00	0.0041	7.90	17.93	14.77	11.83	17.93	17.93
VANO 14	6.00	7.00	1422.07	576.92	1879.71	1298.93	117.25	28.73	5900.00	0.0041	2.34	15.53	107.10	26.24	5900.00	0.0041	7.63	16.93	14.77	11.83	16.93	16.93
VANO 14	7.20	8.00	1331.41	550.89	1814.41	1213.96	109.78	26.90	5900.00	0.0041	2.24	14.57	100.09	24.52	5900.00	0.0041	7.37	15.94	14.77	11.83	15.94	15.94
VANO 14	8.40	9.00	1232.18	525.09	1751.03	1128.88	101.60	24.89	5900.00	0.0041	2.13	13.51	93.08	22.80	5900.00	0.0041	7.11	14.96	14.77	11.83	14.96	14.96
VANO 14	9.60	10.00	1130.68	499.51	1689.51	1043.69	93.23	22.84	5900.00	0.0041	2.03	12.43	86.05	21.08	5900.00	0.0041	6.86	13.97	14.77	11.83	14.77	13.97
VANO 14	9.60	11.00	1130.68	499.51	1689.51	1043.69	93.23	22.84	5900.00	0.0041	2.03	12.43	86.05	21.08	5900.00	0.0041	6.86	13.97	14.77	11.83	14.77	13.97
VANO 14	10.80	12.00	1030.10	474.16	1630.05	958.40	84.93	20.81	5900.00	0.0041	1.92	11.37	79.02	19.36	5900.00	0.0041	6.62	12.99	14.77	11.83	14.77	12.99
VANO 14	12.00	13.00	930.46	449.04	1572.46	873.01	76.72	18.80	5900.00	0.0041	1.82	10.31	71.98	17.64	5900.00	0.0041	6.38	12.01	14.77	11.83	14.77	12.01
VANO 14	13.20	14.00	831.83	424.14	1516.71	787.54	68.59	16.80	5900.00	0.0041	1.72	9.26	64.93	15.91	5900.00	0.0041	6.16	11.03	14.77	11.83	14.77	11.83
VANO 14	14.40	15.00	734.22	399.46	1463.04	701.99	60.54	14.83	5900.00	0.0041	1.62	8.23	57.88	14.18	5900.00	0.0041	5.94	10.06	14.77	11.83	14.77	11.83
VANO 14	14.40	16.00	717.28	399.46	1463.04	685.05	59.14	14.49	5900.00	0.0041	1.62	8.06	56.48	13.84	5900.00	0.0041	5.94	9.89	14.77	11.83	14.77	11.83
VANO 14	15.60	17.00	620.74	375.01	1411.23	599.42	51.18	12.54	5900.00	0.0041	1.52	7.03	49.42	12.11	5900.00	0.0041	5.73	8.92	14.77	11.83	14.77	11.83
VANO 14	16.80	18.00	525.30	350.79	1361.34	513.73	43.31	10.61	5900.00	0.0041	1.42	6.02	42.36	10.38	5900.00	0.0041	5.53	7.95	14.77	11.83	14.77	11.83
VANO 14	18.00	19.00	430.99	326.79	1313.38	427.98	35.54	8.71	5900.00	0.0041	1.33	5.02	35.29	8.65	5900.00	0.0041	5.33	6.99	14.77	11.83	14.77	11.83
VANO 14	19.20	20.00	489.77	177.07	1267.45	342.19	40.38	9.89	5900.00	0.0041	0.72	5.31	28.21	6.91	5900.00	0.0041	5.14	6.03	14.77	11.83	14.77	11.83
VANO 14	19.20	21.00	489.77	177.07	1267.45	342.19	40.38	9.89	5900.00	0.0041	0.72	5.31	28.21	6.91	5900.00	0.0041	5.14	6.03	14.77	11.83	14.77	11.83
VANO 14	20.40	22.00	567.43	166.70	1223.66	256.36	46.79	11.46	5900.00	0.0041	0.68	6.07	21.14	5.18	5900.00	0.0041	4.97	5.07	14.77	11.83	14.77	11.83
VANO 14	21.60	23.00	646.40	156.32	1182.00	170.50	53.30	13.06	5900.00	0.0041	0.63	6.85	14.06	3.44	5900.00	0.0041	4.80	4.12	14.77	11.83	14.77	11.83
VANO 14	22.80	24.00	726.69	145.95	1142.48	84.63	59.92	14.68	5900.00	0.0041	0.59	7.64	6.98	1.71	5900.00	0.0041	4.64	3.17	14.77	11.83	14.77	11.83
VANO 14	24.00	25.00	399.83	135.57	1105.06	2.42	32.97	8.08	5900.00	0.0041	0.55	4.31	0.20	0.05	5900.00	0.0041	4.49	2.27	14.77	11.83	14.77	11.83
VANO 14	24.00	26.00	399.83	135.57	1105.06	2.42	32.97	8.08	5900.00	0.0041	0.55	4.31	0.20	0.05	5900.00	0.0041	4.49	2.27	14.77	11.83	14.77	11.83
VANO 14	25.20	27.00	711.62	187.04	1077.35	88.01	58.67	14.38	5900.00	0.0041	0.76	7.57	7.26	1.78	5900.00	0.0041	4.37	3.08	14.77	11.83	14.77	11.83
VANO 14	26.40	28.00	631.31	164.70	1069.15	173.03	52.05	12.75	5900.00	0.0041	0.67	6.71	14.27	3.50	5900.00	0.0041	4.34	3.92	14.77	11.83	14.77	11.83
VANO 14	27.60	29.00	552.32	142.63	1100.17	258.89	45.54	11.16	5900.00	0.0041	0.58	5.87	21.35	5.23	5900.00	0.0041	4.47	4.85	14.77	11.83	14.77	11.83
VANO 14	28.80	30.00	474.65	120.83	1139.28	344.72	39.14	9.59	5900.00	0.0041	0.49	5.04	28.42	6.96	5900.00	0.0041	4.62	5.79	14.77	11.83	14.77	11.83
VANO 14	28.80	31.00	474.65	120.83	1139.28	344.72	39.14	9.59	5900.00	0.0041	0.49	5.04	28.42	6.96	5900.00	0.0041	4.62	5.79	14.77	11.83	14.77	11.83
VANO 14	30.00	32.00	441.60	111.38	1181.32	430.51	36.41	8.92	5900.00	0.0041	0.45	4.69	35.50	8.70	5900.00	0.0041	4.80	6.75	14.77	11.83	14.77	11.83
VANO 14	31.20	33.00	535.90	124.89	1225.64	516.26	44.19	10.83	5900.00	0.0041	0.51	5.67	42.57	10.43	5900.00	0.0041	4.98	7.70	14.77	11.83	14.77	11.83
VANO 14	32.40	34.00	631.32	143.44	1271.91	601.95	52.05	12.75	5900.00	0.0041	0.58	6.67	49.63	12.16	5900.00	0.0041	5.16	8.66	14.77	11.83	14.77	11.83
VANO 14	33.60	35.00	727.84	163.77	1320.10	687.58	60.01	14.70	5900.00	0.0041	0.66	7.68	56.69	13.89	5900.00	0.0041	5.36	9.62	14.77	11.83	14.77	11.83
VANO 14	33.60	36.00	727.84	163.77	1320.10	687.58	60.01	14.70	5900.00	0.0041	0.66	7.68	56.69	13.89	5900.00	0.0041	5.36	9.62	14.77	11.83	14.77	11.83
VANO 14	34.80	37.00	825.43	184.39	1371.34	773.13	68.06	16.67	5900.00	0.0041	0.75	8.71	63.75	15.62	5900.00	0.0041	5.57	10.59	14.77	11.83	14.77	11.83
VANO 14	36.00	38.00	924.05	205.23	1426.35	858.61	76.19	18.67	5900.00	0.0041	0.83	9.75	70.79	17.34	5900.00	0.0041	5.78	11.57	14.77	11.83	14.77	11.83
VANO 14	37.20	39.00	1023.67	226.30	1483.29	944.00	84.40	20.68	5900.00	0.0041	0.92	10.80	77.83	19.07	5900.00	0.0041	6.02	12.55	14.77	11.83	14.77	12.55
VANO 14	38.40	40.00	1124.25	247.59	1542.16	1029.29	92.70	22.71	5900.00	0.0041	1.01	11.86	84.87	20.79	5900.00	0.0041	6.26	13.53	14.77	11.83	14.77	13.53
VANO 14	38.40	41.00	1124.25	247.59	1542.16	1029.29	92.70	22.71	5900.00	0.0041	1.01	11.86	84.87	20.79	5900.00	0.0041	6.26	13.53	14.77	11.83	14.77	13.53
VANO 14	39.60	42.00	1225.73	269.50	1602.95	1114.48	101.06	24.76	5900.00	0.0041	1.09	12.93	91.89	22.51	5900.00	0.0041	6.51	14.51	14.77	11.83	14.77	13.53
VANO 14	40.80	43.00	1328.09	292.13	1665.68	1199.57	109.50	26.83	5900.00	0.0041	1.19	14.01	98.91	24.23	5900.00	0.0041	6.76	15.50	14.77	11.83	14.77	14.51
VANO 14	42.00	44.00	1431.26	314.99	1730.33	1284.54	118.01	28.91	5900.00	0.0041	1.28	15.10	105.91	25.95	5900.00	0.0041	7.02	16.49	14.77	11.83	15.50	15.50
VANO 14	43.20	45.00	1535.21	338.08	1796.91	1369.40	126.58	31.01	5900.00	0.0041	1.37	16.19	112.91	27.66	5900.00	0.0041	7.29	17.48	14.77	11.83	16.49	16.49
VANO 14	43.20	46.00	1535.21	338.08	1796.91	1369.40	126.58	31.01	5900.00	0.0041	1.37	16.19	112.91	27.66	5900.00	0.0041	7.29	17.48	14.77	11.83	17.48	17.48
VANO 14	44.40	47.00	1639.87	361.39	1865.41	1454.13	135.21	33.13	5900.00	0.0041	1.47	17.30	119.90	29.37	5900.00	0.0041	7.57	18.47	14.77	11.83	17.48	17.48
VANO 14	45.60	48.00	1745.20	384.93	1935.85	1538.74	143.89	35.25	5900.00	0.0041	1.56	18.41	126.87	31.08	5900.00	0.0041	7.86	19.47	14.77	11.83	18.47	18.47
VANO 14	46.80	49.00	1851.13	408.69	2008.21	1623.22	152.63	37.39	5900.00	0.0041	1.66	19.53	133.84	32.79	5900.00	0.0041	8.15	20.47	14.77	11.83	19.47	19.47
																					20.47	20.47

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR JUNTO AL ALMA

CARACT. RASANTE

M est (S5)=	1.65
Inercia XX =	20.0
fyd cercos =	40816
colg tetha =	1
K rasant =	0.082
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
colg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Fret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC — **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** — **ARMADO DEFINITIV**

			Hipótesis max cortante		Hipótesis max torsor		Dos caras				Una cara	Dos caras				Una cara	FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 15	0.00	1.00	2316.53	710.45	2323.10	1715.51	191.00	46.80	5900.00	0.0041	2.88	24.84	141.45	34.65	5900.00	0.0041	9.43	22.04	14.77	11.83	24.84	24.84
VANO 15	1.20	2.00	1801.53	683.29	2247.12	1631.17	148.54	36.39	5900.00	0.0041	2.77	19.58	134.49	32.95	5900.00	0.0041	9.12	21.04	14.77	11.83	21.04	21.04
VANO 15	2.40	3.00	1698.44	656.36	2174.47	1546.70	140.04	34.31	5900.00	0.0041	2.66	18.49	127.53	31.24	5900.00	0.0041	8.83	20.04	14.77	11.83	20.04	20.04
VANO 15	3.60	4.00	1605.64	629.66	2103.15	1462.10	132.39	32.43	5900.00	0.0041	2.56	17.50	120.55	29.54	5900.00	0.0041	8.54	19.04	14.77	11.83	19.04	19.04
VANO 15	4.80	5.00	1513.50	603.18	2033.15	1377.38	124.79	30.57	5900.00	0.0041	2.45	16.51	113.57	27.82	5900.00	0.0041	8.26	18.04	14.77	11.83	18.04	18.04
VANO 15	4.80	6.00	1513.50	603.18	2033.15	1377.38	124.79	30.57	5900.00	0.0041	2.45	16.51	113.57	27.82	5900.00	0.0041	8.26	18.04	14.77	11.83	18.04	18.04
VANO 15	6.00	7.00	1422.07	576.92	1966.08	1292.53	117.25	28.73	5900.00	0.0041	2.34	15.53	106.57	26.11	5900.00	0.0041	7.98	17.05	14.77	11.83	17.05	17.05
VANO 15	7.20	8.00	1331.41	550.89	1900.44	1207.57	109.78	26.90	5900.00	0.0041	2.24	14.57	99.57	24.39	5900.00	0.0041	7.71	16.05	14.77	11.83	16.05	16.05
VANO 15	8.40	9.00	1232.18	525.09	1836.73	1122.49	101.60	24.89	5900.00	0.0041	2.13	13.51	92.55	22.68	5900.00	0.0041	7.46	15.07	14.77	11.83	15.07	15.07
VANO 15	9.60	10.00	1130.68	499.51	1774.14	1037.30	93.23	22.84	5900.00	0.0041	2.03	12.43	85.53	20.95	5900.00	0.0041	7.20	14.08	14.77	11.83	14.77	14.08
VANO 15	9.60	11.00	1130.68	499.51	1774.14	1037.30	93.23	22.84	5900.00	0.0041	2.03	12.43	85.53	20.95	5900.00	0.0041	7.20	14.08	14.77	11.83	14.77	14.08
VANO 15	10.80	12.00	1030.10	474.16	1715.38	952.02	84.93	20.81	5900.00	0.0041	1.92	11.37	78.50	19.23	5900.00	0.0041	6.96	13.10	14.77	11.83	14.77	13.10
VANO 15	12.00	13.00	930.46	449.04	1657.64	866.64	76.72	18.80	5900.00	0.0041	1.82	10.31	71.46	17.51	5900.00	0.0041	6.73	12.12	14.77	11.83	14.77	12.12
VANO 15	13.20	14.00	831.83	424.14	1601.13	781.17	68.59	16.80	5900.00	0.0041	1.72	9.26	64.41	15.78	5900.00	0.0041	6.50	11.14	14.77	11.83	14.77	11.83
VANO 15	14.40	15.00	734.22	399.46	1547.05	695.63	60.54	14.83	5900.00	0.0041	1.62	8.23	57.36	14.05	5900.00	0.0041	6.28	10.17	14.77	11.83	14.77	11.83
VANO 15	14.40	16.00	717.28	399.46	1547.05	678.68	59.14	14.49	5900.00	0.0041	1.62	8.06	55.96	13.71	5900.00	0.0041	6.28	9.99	14.77	11.83	14.77	11.83
VANO 15	15.60	17.00	620.74	375.01	1494.10	593.06	51.18	12.54	5900.00	0.0041	1.52	7.03	48.90	11.98	5900.00	0.0041	6.07	9.02	14.77	11.83	14.77	11.83
VANO 15	16.80	18.00	525.30	350.79	1444.67	507.38	43.31	10.61	5900.00	0.0041	1.42	6.02	41.83	10.25	5900.00	0.0041	5.86	8.06	14.77	11.83	14.77	11.83
VANO 15	18.00	19.00	430.99	326.79	1396.37	421.64	35.54	8.71	5900.00	0.0041	1.33	5.02	34.76	8.52	5900.00	0.0041	5.67	7.09	14.77	11.83	14.77	11.83
VANO 15	19.20	20.00	489.77	177.07	1350.10	335.85	40.38	9.89	5900.00	0.0041	0.72	5.31	27.69	6.78	5900.00	0.0041	5.48	6.13	14.77	11.83	14.77	11.83
VANO 15	19.20	21.00	489.77	177.07	1350.10	335.85	40.38	9.89	5900.00	0.0041	0.72	5.31	27.69	6.78	5900.00	0.0041	5.48	6.13	14.77	11.83	14.77	11.83
VANO 15	20.40	22.00	567.43	166.70	1305.17	250.03	46.79	11.46	5900.00	0.0041	0.68	6.07	20.62	5.05	5900.00	0.0041	5.30	5.18	14.77	11.83	14.77	11.83
VANO 15	21.60	23.00	646.40	156.32	1263.17	164.17	53.30	13.06	5900.00	0.0041	0.63	6.85	13.54	3.32	5900.00	0.0041	5.13	4.22	14.77	11.83	14.77	11.83
VANO 15	22.80	24.00	726.69	145.95	1224.10	78.30	59.92	14.68	5900.00	0.0041	0.59	7.64	6.46	1.58	5900.00	0.0041	4.97	3.28	14.77	11.83	14.77	11.83
VANO 15	24.00	25.00	399.83	135.57	1186.66	7.60	32.97	8.08	5900.00	0.0041	0.55	4.31	0.63	0.15	5900.00	0.0041	4.82	2.48	14.77	11.83	14.77	11.83
VANO 15	24.00	26.00	399.83	135.57	1186.66	7.60	32.97	8.08	5900.00	0.0041	0.55	4.31	0.63	0.15	5900.00	0.0041	4.82	2.48	14.77	11.83	14.77	11.83
VANO 15	25.20	27.00	711.62	187.04	1150.66	94.38	58.67	14.38	5900.00	0.0041	0.76	7.57	7.78	1.91	5900.00	0.0041	4.67	3.29	14.77	11.83	14.77	11.83
VANO 15	26.40	28.00	631.31	164.70	1128.66	181.15	52.05	12.75	5900.00	0.0041	0.67	6.71	14.94	3.66	5900.00	0.0041	4.58	4.12	14.77	11.83	14.77	11.83
VANO 15	27.60	29.00	552.32	142.63	1111.43	267.91	45.54	11.16	5900.00	0.0041	0.58	5.87	22.09	5.41	5900.00	0.0041	4.51	4.96	14.77	11.83	14.77	11.83
VANO 15	28.80	30.00	474.65	120.83	1108.14	351.01	39.14	9.59	5900.00	0.0041	0.49	5.04	28.94	7.09	5900.00	0.0041	4.50	5.80	14.77	11.83	14.77	11.83
VANO 15	28.80	31.00	474.65	120.83	1108.14	351.01	39.14	9.59	5900.00	0.0041	0.49	5.04	28.94	7.09	5900.00	0.0041	4.50	5.80	14.77	11.83	14.77	11.83
VANO 15	30.00	32.00	441.60	111.38	1143.16	436.80	36.41	8.92	5900.00	0.0041	0.45	4.69	36.01	8.82	5900.00	0.0041	4.64	6.73	14.77	11.83	14.77	11.83
VANO 15	31.20	33.00	535.90	124.89	1180.12	522.54	44.19	10.83	5900.00	0.0041	0.51	5.67	43.08	10.56	5900.00	0.0041	4.79	7.67	14.77	11.83	14.77	11.83
VANO 15	32.40	34.00	631.32	143.44	1224.10	608.23	52.05	12.75	5900.00	0.0041	0.58	6.67	50.15	12.29	5900.00	0.0041	4.97	8.63	14.77	11.83	14.77	11.83
VANO 15	33.60	35.00	727.84	163.77	1271.58	693.85	60.01	14.70	5900.00	0.0041	0.66	7.68	57.21	14.02	5900.00	0.0041	5.16	9.59	14.77	11.83	14.77	11.83
VANO 15	33.60	36.00	727.84	163.77	1271.58	693.85	60.01	14.70	5900.00	0.0041	0.66	7.68	57.21	14.02	5900.00	0.0041	5.16	9.59	14.77	11.83	14.77	11.83
VANO 15	34.80	37.00	825.43	184.39	1321.15	779.40	68.06	16.67	5900.00	0.0041	0.75	8.71	64.26	15.74	5900.00	0.0041	5.36	10.55	14.77	11.83	14.77	11.83
VANO 15	36.00	38.00	924.05	205.23	1372.43	864.87	76.19	18.67	5900.00	0.0041	0.83	9.75	71.31	17.47	5900.00	0.0041	5.57	11.52	14.77	11.83	14.77	11.83
VANO 15	37.20	39.00	1023.67	226.30	1425.55	950.25	84.40	20.68	5900.00	0.0041	0.92	10.80	78.35	19.20	5900.00	0.0041	5.79	12.49	14.77	11.83	14.77	12.49
VANO 15	38.40	40.00	1124.25	247.59	1480.59	1035.54	92.70	22.71	5900.00	0.0041	1.01	11.86	85.38	20.92	5900.00	0.0041	6.01	13.46	14.77	11.83	14.77	13.46
VANO 15	38.40	41.00	1124.25	247.59	1480.59	1035.54	92.70	22.71	5900.00	0.0041	1.01	11.86	85.38	20.92	5900.00	0.0041	6.01	13.46	14.77	11.83	14.77	13.46
VANO 15	39.60	42.00	1225.73	269.50	1537.62	1120.73	101.06	24.76	5900.00	0.0041	1.09	12.93	92.41	22.64	5900.00	0.0041	6.24	14.44	14.77	11.83	14.77	14.44
VANO 15	40.80	43.00	1328.09	292.13	1597.31	1205.81	109.50	26.83	5900.00	0.0041	1.19	14.01	99.42	24.36	5900.00	0.0041	6.48	15.42	14.77	11.83	14.77	15.42
VANO 15	42.00	44.00	1431.26	314.99	1658.72	1290.78	118.01	28.91	5900.00	0.0041	1.28	15.10	106.43	26.07	5900.00	0.0041	6.73	16.40	14.77	11.83	16.40	16.40
VANO 15	43.20	45.00	1535.21	338.08	1722.07	1375.63	126.58	31.01	5900.00	0.0041	1.37	16.19	113.42	27.79	5900.00	0.0041	6.99	17.39	14.77	11.83	17.39	17.39
VANO 15	43.20	46.00	1535.21	338.08	1722.07	1375.63	126.58	31.01	5900.00	0.0041	1.37	16.19	113.42	27.79	5900.00	0.0041	6.99	17.39	14.77	11.83	17.39	17.39
VANO 15	44.40	47.00	1639.87	361.39	1787.23	1460.36	135.21	33.13	5900.00	0.0041	1.47	17.30	120.41	29.50	5900.00	0.0041	7.26	18.38	14.77	11.83	18.38	18.38
VANO 15	45.60	48.00	1745.20	384.93	1854.53	1544.96	143.89	35.25	5900.00	0.0041	1.56	18.41	127.38	31.21	5900.00	0.0041	7.53	19.37	14.77	11.83	19.37	19.37
VANO 15	46.80	49.00	1851.13	408.69	1923.65	1629.44	152.63	37.39	5900.00	0.0041	1.66	19.53	134.35	32.92	5900.00	0.0041	7.81	20.36	14.77	11.83	20.36	20.36
VANO 15	48.00	50.00	2366.13	432.68	1994.70	1713.76	195.09	47.80	5900.00	0.0041	1.76	24.78	141.30	34.62	5900.00	0.0041	8.10	21.36	14.77	11.83	24.76	24.78
VANO 16	0.00	1.00	2316.53	710.45	2288.31	1719.36	191.00	46.80	5900.00	0.0041	2.88	24.84	141.76	34.73	5900.00	0.0041	9.29	22.01	14.77	11.83	24.84	24.84
VANO 16	1.20	2.00	1801.53	683.29	2213.51	1635.02	148.54	36.39	5900.00	0.0041	2.77	19.58	134.81	33.03	5900.00	0.0041	8.99	21.01	14.77	11.83	21.01	21.01
VANO 16	2.40	3.00	1698.44	656.36	2140.63	1550.55	140.04	34.31	5900.00	0.0041	2.66	18.49	127.85	31.32	5900.00	0.0041	8.69	20.01	14.77	11.83	20.01	20.01
VANO 16	3.60	4.00	1605.64	629.66	2069.66	1465.96	132.39	32.43	5900.00	0.0041	2.56	17.50	120.87	29.61	5900.00	0.0041	8.40	19.01	14.77	11.83	19.01	19.01
VANO 16	4.80	5.00	1513.50	603.18	2000.60	1381.23	124.79	30.57	5900.00	0.0041	2.45	16.51	113.88	27.90	5900.00	0.0041	8.12	18.01	14.77	11.83	18.01	18.01
VANO 16	4.80	6.00	1513.50	603.18	2000.60	1381.23	124.79	30.57	5900.00	0.0041	2.45	16.51	113.88	27.90	5900.00	0.0041	8.12	18.01	14.77	11.83	18.01	18.01
VANO 16	6.00	7.00	1422.07	576.92	1933.45	1296.38	117.25	28.73	5900.00	0.0041	2.34	15.53	106.89	26.19	5900.00	0.0041	7.85	17.02	14.77	11.83	17.02	17.02
VANO 16	7.20	8.00	1331.41	550.89	1868.23	1211.42	109.78	26.90	5900.00	0.0041	2.24	14.57	99.88	24.47	5900.00	0.0041	7.58	16.03	14.77	11.83	16.03	16.03
VANO 16	8.40	9.00	1232.18	525.09	1804.91	1126.34	101.60	24.89	5900.00	0.0041	2.13	13.51	92.87	22.75	5900.00	0.0041	7.33	15.04	14.77	11.83	15.04	15.04
VANO 16	9.60	10.00	1130.68	499.51	1743.51	1041.16	93.23	22.84	5900.00	0.0041	2.03	12.43	85.85	21.03	5900.00	0.0041	7.08	14.05	14.77	11.83	14.77	14.05
VANO 16	9.60	11.00	1130.68	499.51	1743.51	1041.16	93.23	22.84	5900.00	0.0041	2.03	12.43	85.85	21.03	5900.00	0.0041	7.08	14.05	14.77	11.83	14.77	14.05
VANO 16	10.80	12.00	1030.10	474.16	1684.02	955.88	84.93	20.81	5900.00	0.0041	1.92	11.37	78.81	19.31	5900.00	0.0041	6.84	13.07	14.77	11.83	14.77	13.07
VANO 16	12.00	13.00	930.46	449.04	1626.44	870.50	76.72	18.80	5900.00	0.0041	1.82	10.31	71.77	17.58	5900.00	0.0041	6.60	12.09	14.77	11.83	14.77	12.09
VANO 16	13.20	14.00	831.83	424.14	1570.73	785.04	68.59	16.80	5900.00	0.0041	1.72	9.26	64.73	15.86	5900.00	0.0041	6.38	11.12	14.77	11.83	14.77	11.83
VANO 16	14.40	15.00	734.22	399.46	1517.01	699.49	60.54	14.83	5900.00	0.0041	1.62	8.23	57.67	14.13	5900.00	0.0041	6.16	10.14	14.77	11.83	14.77	11.83
VANO 16	14.40	16.00	717.28	399.46	1517.01	682.55	59.14	14.49	5900.00	0.0041	1.62	8.06	56.28	13.79	5900.00	0.0041	6.16	9.97	14.77	11.83	14.77	11.83
VANO 16	15.60	17.00	620.74	375.01	1465.23	596.93	51.18	12.54	5900.00	0.0041	1.52	7.03	49.22	12.06	5900.00	0.0041	5.95	9.00	14.77	11.83	14.77	11.83
VANO 16	16.80	18.00	525.30	350.79	1415.23	511.25	43.31	10.61	5900.00	0.0041	1.42	6.02	42.15	10.33	5900.00	0.0041	5.74	8.04	14.77	11.83	14.77	11.83
VANO 16	18.00	19.00	430.99	326.79	1367.27	425.51	35.54	8.71	5900.00	0.0041	1.33	5.02	35.08	8.60	5900.00	0.0041	5.55	7.07	14.77	11.83	14.77	11.83
VANO 16	19.20	20.00	489.77	177.07	1321.23	339.73	40.38	9.89	5900.00	0.0041	0.72	5.31	28.01	6.86	5900.00	0.0041	5.36	6.11	14.77	11.83	14.77	11.83
VANO 16	19.20	21.00	489.77	177.07	1321.23	339.73	40.38	9.89	5900.00	0.0041	0.72	5.31	28.01	6.86	5900.00	0.0041	5.36	6.11	14.77	11.83	14.77	11.83
VANO 16	20.40	22.00	567.43	166.70	1277.41	253.91	46.79	11.46	5900.00	0.0041	0.68	6.07	20.94	5.13	5900.00	0.0041	5.19	5.16	14.77	11.83	14.77	11.83
VANO 16	21.60	23.00	646.40	156.32	1235.63	168.06	53.30	13.06	5900.00	0.0041	0.63	6.85	13.86	3.39	5900.00	0.0041	5.02	4.21	14.77	11.83	14.77	11.83
VANO 16	22.80	24.00	726.69	145.95	1196.02	82.19	59.92	14.68	5900.00	0.0041	0.59	7.64	6.78	1.66	5900.00	0.0041	4.85	3.26	14.77	11.83	14.77	11.83
VANO 16	24.00	25.00	399.83	135.57	1158.51	4.12	32.97	8.08	5900.00	0.0041	0.55	4.31	0.34	0.08	5900.00	0.0041	4.70	2.39	14.77	11.83	14.77	11.83
VANO 16	24.00	26.00	399.83	135.57	1158.51	4.12	32.97	8.08	5900.00	0.0041	0.55	4.31	0.34	0.08	5900.00	0.0041	4.70	2.39	14.77	11.83	14.77	11.83
VANO 16	25.20	27.00	711.62	187.04	1127.21	90.46	58.67	14.38	5900.00	0.0041	0.76	7.57	7.46	1.83	5900.00	0.0041	4.58	3.20	14.77	11.83	14.77	11.83
VANO 16	26.40	28.00	631.31	164.70	1110.73	177.22	52.05	12.75	5900.00	0.0041	0.67	6.71	14.61	3.58	5900.00	0.0041	4.51	4.04	14.77	11.83	14.77	11.83
VANO 16	27.60	29.00	552.32	142.63	1112.91	261.29	45.54	11.16	5900.00	0.0041	0.58	5.87	21.54	5.28	5900.00	0.0041	4.52	4.90	14.77	11.83	14.77	11.83
VANO 16	28.80	30.00	474.65	120.83	1149.43	347.11	39.14	9.59	5900.00	0.0041	0.49	5.04	28.62	7.01	5900.00	0.0041	4.67	5.84	14.77	11.83	14.77	11.83
VANO 16	28.80	31.00	474.65	120.83	1149.43	347.11	39.14	9.59	5900.00	0.0041	0.49	5.04	28.62	7.01	5900.00	0.0041	4.67	5.84	14.77	11.83	14.77	11.83
VANO 16	30.00	32.00	441.60	111.38	1191.03	432.89	36.41	8.92	5900.00	0.0041	0.45	4.69	35.69	8.74	5900.00	0.0041	4.83	6.79	14.77	11.83	14.77	11.83
VANO 16	31.20	33.00	535.90	124.89	1234.69	518.63	44.19	10.83	5900.00	0.0041	0.51	5.67	42.76	10.48	5900.00	0.0041	5.01	7.74	14.77	11.83	14.77	11.83
VANO 16	32.40	34.00	631.32	143.44	1280.24	604.32	52.05	12.75	5900.00	0.0041	0.58	6.67	49.83	12.21	5900.00	0.0041	5.20	8.70	14.77	11.83	14.77	11.83
VANO 16	33.60	35.00	727.84	163.77	1327.7	689.94	60.01	14.70	5900.00	0.0041	0.66	7.68	56.89	13.94	5900.00	0.0041	5.39	9.66	14.77	11.83	14.77	11.83
VANO 16	33.60	36.00	727.84	163.77	1327.7	689.94	60.01	14.70	5900.00	0.0041	0.66	7.68	56.89	13.94	5900.00	0.0041	5.39	9.66	14.77	11.83	14.77	11.83
VANO 16	34.80	37.00	825.43	184.39	1377.43	775.48	68.06	16.67	5900.00	0.0041	0.75	8.71	63.94	15.67	5900.00	0.0041	5.59	10.63	14.77	11.83	14.77	11.83
VANO 16	36.00	38.00	924.05	205.23	1429.35	860.95	76.19	18.67	5900.00	0.0041	0.83	9.75	70.99	17.39	5900.00	0.0041	5.80	11.60	14.77	11.83	14.77	11.83
VANO 16	37.20	39.00	1023.67	226.30	1483.11	946.33	84.40	20.68	5900.00	0.0041	0.92	10.80	78.03	19.12	5900.00	0.0041	6.02	12.57	14.77	11.83	14.77	12.57
VANO 16	38.40	40.00	1124.25	247.59	1538.87	1031.62	92.70	22.71	5900.00	0.0041	1.01	11.86	85.06	20.84	5900.00	0.0041	6.25	13.54	14.77	11.83	14.77	13.54
VANO 16	38.40	41.00	1124.25	247.59	1538.87	1031.62	92.70	22.71	5900.00	0.0041	1.01	11.86	85.06	20.84	5900.00	0.0041	6.25	13.54	14.77	11.83	14.77	13.54
VANO 16	39.60	42.00	1225.73	269.50	1596.40	1116.80	101.06	24.76	5900.00	0.0041	1.09	12.93	92.08	22.56	5900.00	0.0041	6.48	14.52	14.77	11.83	14.77	14.52
VANO 16	40.80	43.00	1328.09	292.13	1656.06	1201.88	109.50	26.83	5900.00	0.0041	1.19	14.01	99.10	24.28	5900.00	0.0041	6.72	15.50	14.77	11.83	15.50	15.50
VANO 16	42.00	44.00	1431.26	314.99	1717.44	1286.85	118.01	28.91	5900.00	0.0041	1.28	15.10	106.10	26.00	5900.00	0.0041	6.97	16.48	14.77	11.83	16.48	16.48
VANO 16	43.20	45.00	1535.21	338.08	1783.23	1371.70	126.58	31.01	5900.00	0.0041	1.37	16.19	113.10	27.71	5900.00	0.0041	7.24	17.47	14.77	11.83	17.47	17.47
VANO 16	43.20	46.00	1535.21	338.08	1783.23	1371.70	126.58	31.01	5900.00	0.0041	1.37	16.19	113.10	27.71	5900.00	0.0041	7.24	17.47	14.77	11.83	17.47	17.47
VANO 16	44.40	47.00	1639.87	361.39	1851.65	1456.43	135.21	33.13	5900.00	0.0041	1.47	17.30	120.09	29.42	5900.00	0.0041	7.52	18.47	14.77	11.83	18.47	18.47
VANO 16	45.60	48.00	1745.20	384.93	1921.91	1541.03	143.89	35.25	5900.00	0.0041	1.56	18.41	127.06	31.13	5900.00	0.0041	7.80	19.47	14.77	11.83	19.47	19.47
VANO 16	46.80	49.00	1851.13	408.69	1994.15	1625.51	152.63	37.39	5900.00	0.0041	1.66	19.53	134.03	32.84	5900.00	0.0041	8.09	20.47	14.77	11.83	20.47	20.47

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR JUNTO AL ALMA

CARACT. RASANTE	
M est (S5)=	1.65
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.082
Canto sec=	0.33

CARACTERISTICAS TORSOR			
fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.48	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	Dos caras As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	FLEXIÓN TRANS As int	As ext	As int
VANO 17	0.00	1.00	2316.53	710.45	2280.73	1717.77	191.00	46.80	5900.00	0.0041	2.88	24.84	141.63	34.70	5900.00	0.0041	9.26	21.98	14.77	11.83	24.84	24.84
VANO 17	1.20	2.00	1801.53	683.29	2205.69	1633.44	148.54	36.39	5900.00	0.0041	2.77	19.58	134.68	33.00	5900.00	0.0041	8.95	20.97	14.77	11.83	20.97	20.97
VANO 17	2.40	3.00	1698.44	656.36	2132.15	1548.97	140.04	34.31	5900.00	0.0041	2.66	18.49	127.72	31.29	5900.00	0.0041	8.66	19.97	14.77	11.83	19.97	19.97
VANO 17	3.60	4.00	1605.64	629.66	2061.92	1464.37	132.39	32.43	5900.00	0.0041	2.56	17.50	120.74	29.58	5900.00	0.0041	8.37	18.98	14.77	11.83	18.98	18.98
VANO 17	4.80	5.00	1513.50	603.18	1992.10	1379.65	124.79	30.57	5900.00	0.0041	2.45	16.51	113.75	27.87	5900.00	0.0041	8.09	17.98	14.77	11.83	17.98	17.98
VANO 17	4.80	6.00	1513.50	603.18	1992.10	1379.65	124.79	30.57	5900.00	0.0041	2.45	16.51	113.75	27.87	5900.00	0.0041	8.09	17.98	14.77	11.83	17.98	17.98
VANO 17	6.00	7.00	1422.07	576.92	1925.19	1294.80	117.25	28.73	5900.00	0.0041	2.34	15.53	106.76	26.16	5900.00	0.0041	7.82	16.99	14.77	11.83	16.99	16.99
VANO 17	7.20	8.00	1331.41	550.89	1860.19	1209.84	109.78	26.90	5900.00	0.0041	2.24	14.57	99.75	24.44	5900.00	0.0041	7.55	16.00	14.77	11.83	16.00	16.00
VANO 17	8.40	9.00	1232.18	525.09	1797.10	1124.77	101.60	24.89	5900.00	0.0041	2.13	13.51	92.74	22.72	5900.00	0.0041	7.30	15.01	14.77	11.83	15.01	15.01
VANO 17	9.60	10.00	1130.68	499.51	1735.11	1039.59	93.23	22.84	5900.00	0.0041	2.03	12.43	85.72	21.00	5900.00	0.0041	7.05	14.02	14.77	11.83	14.77	14.02
VANO 17	9.60	11.00	1130.68	499.51	1735.11	1039.59	93.23	22.84	5900.00	0.0041	2.03	12.43	85.72	21.00	5900.00	0.0041	7.05	14.02	14.77	11.83	14.77	14.02
VANO 17	10.80	12.00	1030.10	474.16	1676.44	954.31	84.93	20.81	5900.00	0.0041	1.92	11.37	78.68	19.28	5900.00	0.0041	6.81	13.04	14.77	11.83	14.77	13.04
VANO 17	12.00	13.00	930.46	449.04	1618.17	868.93	76.72	18.80	5900.00	0.0041	1.82	10.31	71.64	17.55	5900.00	0.0041	6.57	12.06	14.77	11.83	14.77	12.06
VANO 17	13.20	14.00	831.83	424.14	1563.22	783.47	68.59	16.80	5900.00	0.0041	1.72	9.26	64.60	15.83	5900.00	0.0041	6.35	11.09	14.77	11.83	14.77	11.83
VANO 17	14.40	15.00	734.22	399.46	1509.47	697.93	60.54	14.83	5900.00	0.0041	1.62	8.23	57.55	14.10	5900.00	0.0041	6.13	10.11	14.77	11.83	14.77	11.83
VANO 17	14.40	16.00	717.28	399.46	1509.47	680.99	59.14	14.49	5900.00	0.0041	1.62	8.06	56.15	13.76	5900.00	0.0041	6.13	9.94	14.77	11.83	14.77	11.83
VANO 17	15.60	17.00	620.74	375.01	1457.63	595.37	51.18	12.54	5900.00	0.0041	1.52	7.03	49.09	12.03	5900.00	0.0041	5.92	8.97	14.77	11.83	14.77	11.83
VANO 17	16.80	18.00	525.30	350.79	1407.10	509.69	43.31	10.61	5900.00	0.0041	1.42	6.02	42.03	10.30	5900.00	0.0041	5.71	8.01	14.77	11.83	14.77	11.83
VANO 17	18.00	19.00	430.99	326.79	1359.66	423.96	35.54	8.71	5900.00	0.0041	1.33	5.02	34.96	8.56	5900.00	0.0041	5.52	7.04	14.77	11.83	14.77	11.83
VANO 17	19.20	20.00	489.77	177.07	1313.67	338.18	40.38	9.89	5900.00	0.0041	0.72	5.31	27.88	6.83	5900.00	0.0041	5.33	6.08	14.77	11.83	14.77	11.83
VANO 17	19.20	21.00	489.77	177.07	1313.67	338.18	40.38	9.89	5900.00	0.0041	0.72	5.31	27.88	6.83	5900.00	0.0041	5.33	6.08	14.77	11.83	14.77	11.83
VANO 17	20.40	22.00	567.43	166.70	1269.77	252.36	46.79	11.46	5900.00	0.0041	0.68	6.07	20.81	5.10	5900.00	0.0041	5.15	5.13	14.77	11.83	14.77	11.83
VANO 17	21.60	23.00	646.40	156.32	1227.99	166.51	53.30	13.06	5900.00	0.0041	0.63	6.85	13.73	3.36	5900.00	0.0041	4.98	4.17	14.77	11.83	14.77	11.83
VANO 17	22.80	24.00	726.69	145.95	1188.32	80.65	59.92	14.68	5900.00	0.0041	0.59	7.64	6.65	1.63	5900.00	0.0041	4.82	3.23	14.77	11.83	14.77	11.83
VANO 17	24.00	25.00	399.83	135.57	1150.79	5.23	32.97	8.08	5900.00	0.0041	0.55	4.31	0.43	0.11	5900.00	0.0041	4.67	2.39	14.77	11.83	14.77	11.83
VANO 17	24.00	26.00	399.83	135.57	1150.79	5.23	32.97	8.08	5900.00	0.0041	0.55	4.31	0.43	0.11	5900.00	0.0041	4.67	2.39	14.77	11.83	14.77	11.83
VANO 17	25.20	27.00	711.62	187.04	1123.33	92.00	58.67	14.38	5900.00	0.0041	0.76	7.57	7.59	1.86	5900.00	0.0041	4.56	3.21	14.77	11.83	14.77	11.83
VANO 17	26.40	28.00	631.31	164.70	1106.88	178.76	52.05	12.75	5900.00	0.0041	0.67	6.71	14.74	3.61	5900.00	0.0041	4.49	4.05	14.77	11.83	14.77	11.83
VANO 17	27.60	29.00	552.32	142.63	1126.66	262.81	45.54	11.16	5900.00	0.0041	0.58	5.87	21.67	5.31	5900.00	0.0041	4.57	4.94	14.77	11.83	14.77	11.83
VANO 17	28.80	30.00	474.65	120.83	1159.72	348.63	39.14	9.59	5900.00	0.0041	0.49	5.04	28.74	7.04	5900.00	0.0041	4.71	5.88	14.77	11.83	14.77	11.83
VANO 17	28.80	31.00	474.65	120.83	1159.72	348.63	39.14	9.59	5900.00	0.0041	0.49	5.04	28.74	7.04	5900.00	0.0041	4.71	5.88	14.77	11.83	14.77	11.83
VANO 17	30.00	32.00	441.60	111.38	1199.63	434.41	36.41	8.92	5900.00	0.0041	0.45	4.69	35.82	8.78	5900.00	0.0041	4.87	6.82	14.77	11.83	14.77	11.83
VANO 17	31.20	33.00	535.90	124.89	1243.33	520.14	44.19	10.83	5900.00	0.0041	0.51	5.67	42.89	10.51	5900.00	0.0041	5.05	7.78	14.77	11.83	14.77	11.83
VANO 17	32.40	34.00	631.32	143.44	1288.82	605.82	52.05	12.75	5900.00	0.0041	0.58	6.67	49.95	12.24	5900.00	0.0041	5.23	8.73	14.77	11.83	14.77	11.83
VANO 17	33.60	35.00	727.84	163.77	1336.73	691.44	60.01	14.70	5900.00	0.0041	0.66	7.68	57.01	13.97	5900.00	0.0041	5.43	9.70	14.77	11.83	14.77	11.83
VANO 17	33.60	36.00	727.84	163.77	1336.73	691.44	60.01	14.70	5900.00	0.0041	0.66	7.68	57.01	13.97	5900.00	0.0041	5.43	9.70	14.77	11.83	14.77	11.83
VANO 17	34.80	37.00	825.43	184.39	1386.63	776.98	68.06	16.67	5900.00	0.0041	0.75	8.71	64.06	15.70	5900.00	0.0041	5.63	10.66	14.77	11.83	14.77	11.83
VANO 17	36.00	38.00	924.05	205.23	1438.53	862.45	76.19	18.67	5900.00	0.0041	0.83	9.75	71.11	17.42	5900.00	0.0041	5.84	11.63	14.77	11.83	14.77	11.83
VANO 17	37.20	39.00	1023.67	226.30	1492.21	947.82	84.40	20.68	5900.00	0.0041	0.92	10.80	78.15	19.15	5900.00	0.0041	6.06	12.60	14.77	11.83	14.77	12.60
VANO 17	38.40	40.00	1124.25	247.59	1547.99	1033.11	92.70	22.71	5900.00	0.0041	1.01	11.86	85.18	20.87	5900.00	0.0041	6.28	13.58	14.77	11.83	14.77	13.58
VANO 17	38.40	41.00	1124.25	247.59	1547.99	1033.11	92.70	22.71	5900.00	0.0041	1.01	11.86	85.18	20.87	5900.00	0.0041	6.28	13.58	14.77	11.83	14.77	13.58
VANO 17	39.60	42.00	1225.73	269.50	1607.05	1118.29	101.06	24.76	5900.00	0.0041	1.09	12.93	92.20	22.59	5900.00	0.0041	6.52	14.56	14.77	11.83	14.77	14.56
VANO 17	40.80	43.00	1328.09	292.13	1669.61	1203.36	109.50	26.83	5900.00	0.0041	1.19	14.01	99.22	24.31	5900.00	0.0041	6.78	15.54	14.77	11.83	15.54	15.54
VANO 17	42.00	44.00	1431.26	314.99	1734.21	1288.33	118.01	28.91	5900.00	0.0041	1.28	15.10	106.22	26.03	5900.00	0.0041	7.04	16.53	14.77	11.83	16.53	16.53
VANO 17	43.20	45.00	1535.21	338.08	1800.65	1373.18	126.58	31.01	5900.00	0.0041	1.37	16.19	113.22	27.74	5900.00	0.0041	7.31	17.52	14.77	11.83	17.52	17.52
VANO 17	43.20	46.00	1535.21	338.08	1800.65	1373.18	126.58	31.01	5900.00	0.0041	1.37	16.19	113.22	27.74	5900.00	0.0041	7.31	17.52	14.77	11.83	17.52	17.52
VANO 17	44.40	47.00	1639.87	361.39	1868.96	1457.90	135.21	33.13	5900.00	0.0041	1.47	17.30	120.21	29.45	5900.00	0.0041	7.59	18.52	14.77	11.83	18.52	18.52
VANO 17	45.60	48.00	1745.20	384.93	1939.24	1542.50	143.89	35.25	5900.00	0.0041	1.56	18.41	127.18	31.16	5900.00	0.0041	7.87	19.52	14.77	11.83	19.52	19.52
VANO 17	46.80	49.00	1851.13	408.69	2011.40	1626.97	152.63	37.39	5900.00	0.0041	1.66	19.53	134.15	32.87	5900.00	0.0041	8.16	20.52	14.77	11.83	20.52	20.52
VANO 17	48.00	50.00	2306.13	432.68	2085.4	1711.31	195.09	47.80	5900.00	0.0041	1.76	24.78	141.10	34.57	5900.00	0.0041	8.47	21.52	14.77	11.83	24.78	24.78
VANO 18	0.00	1.00	2316.53	710.45	2247.68	1717.21	191.00	46.80	5900.00	0.0041	2.88	24.84	141.59	34.69	5900.00	0.0041	9.12	21.91	14.77	11.83	24.84	24.84
VANO 18	1.20	2.00	1801.53	683.29	2173.17	1632.87	148.54	36.39	5900.00	0.0041	2.77	19.58	134.63	32.99	5900.00	0.0041	8.82	20.90	14.77	11.83	20.90	20.90
VANO 18	2.40	3.00	1698.44	656.36	2100.46	1548.41	140.04	34.31	5900.00	0.0041	2.66	18.49	127.67	31.28	5900.00	0.0041	8.53	19.90	14.77	11.83	19.90	19.90
VANO 18	3.60	4.00	1605.64	629.66	2029.7	1463.81	132.39	32.43	5900.00	0.0041	2.56	17.50	120.69	29.57	5900.00	0.0041	8.24	18.90	14.77	11.83	18.90	18.90
VANO 18	4.80	5.00	1513.50	603.18	1960.85	1379.08	124.79	30.57	5900.00	0.0041	2.45	16.51	113.71	27.86	5900.00	0.0041	7.96	17.91	14.77	11.83	17.91	17.91
VANO 18	4.80	6.00	1513.50	603.18	1960.85	1379.08	124.79	30.57	5900.00	0.0041	2.45	16.51	113.71	27.86	5900.00	0.0041	7.96	17.91	14.77	11.83	17.91	17.91
VANO 18	6.00	7.00	1422.07	576.92	1893.90	1294.24	117.25	28.73	5900.00	0.0041	2.34	15.53	106.71	26.14	5900.00	0.0041	7.69	16.92	14.77	11.83	16.92	16.92
VANO 18	7.20	8.00	1331.41	550.89	1828.88	1209.28	109.78	26.90	5900.00	0.0041	2.24	14.57	99.71	24.43	5900.00	0.0041	7.42	15.93	14.77	11.83	15.93	15.93
VANO 18	8.40	9.00	1232.18	525.09	1765.71	1124.20	101.60	24.89	5900.00	0.0041	2.13	13.51	92.69	22.71	5900.00	0.0041	7.17	14.94	14.77	11.83	14.94	14.94
VANO 18	9.60	10.00	1130.68	499.51	1704.47	1039.02	93.23	22.84	5900.00	0.0041	2.03	12.43	85.67	20.99	5900.00	0.0041	6.92	13.95	14.77	11.83	14.77	13.95
VANO 18	9.60	11.00	1130.68	499.51	1704.47	1039.02	93.23	22.84	5900.00	0.0041	2.03	12.43	85.67	20.99	5900.00	0.0041	6.92	13.95	14.77	11.83	14.77	13.95
VANO 18	10.80	12.00	1030.10	474.16	1645.13	953.74	84.93	20.81	5900.00	0.0041	1.92	11.37	78.64	19.27	5900.00	0.0041	6.68	12.97	14.77	11.83	14.77	12.97
VANO 18	12.00	13.00	930.46	449.04	1587.70	868.37	76.72	18.80	5900.00	0.0041	1.82	10.31	71.60	17.54	5900.00	0.0041	6.44	11.99	14.77	11.83	14.77	11.99
VANO 18	13.20	14.00	831.83	424.14	1532.17	782.91	68.59	16.80	5900.00	0.0041	1.72	9.26	64.55	15.82	5900.00	0.0041	6.22	11.02	14.77	11.83	14.77	11.83
VANO 18	14.40	15.00	734.22	399.46	1478.54	697.37	60.54	14.83	5900.00	0.0041	1.62	8.23	57.50	14.09	5900.00	0.0041	6.00	10.04	14.77	11.83	14.77	11.83
VANO 18	14.40	16.00	717.28	399.46	1478.54	680.42	59.14	14.49	5900.00	0.0041	1.62	8.06	56.10	13.75	5900.00	0.0041	6.00	9.87	14.77	11.83	14.77	11.83
VANO 18	15.60	17.00	620.74	375.01	1426.81	594.81	51.18	12.54	5900.00	0.0041	1.52	7.03	49.04	12.02	5900.00	0.0041	5.79	8.90	14.77	11.83	14.77	11.83
VANO 18	16.80	18.00	525.30	350.79	1376.98	509.13	43.31	10.61	5900.00	0.0041	1.42	6.02	41.98	10.28	5900.00	0.0041	5.59	7.94	14.77	11.83	14.77	11.83
VANO 18	18.00	19.00	430.99	326.79	1329.06	423.40	35.54	8.71	5900.00	0.0041	1.33	5.02	34.91	8.55	5900.00	0.0041	5.39	6.97	14.77	11.83	14.77	11.83
VANO 18	19.20	20.00	489.77	177.07	1283.15	337.62	40.38	9.89	5900.00	0.0041	0.72	5.31	27.84	6.82	5900.00	0.0041	5.21	6.01	14.77	11.83	14.77	11.83
VANO 18	19.20	21.00	489.77	177.07	1283.15	337.62	40.38	9.89	5900.00	0.0041	0.72	5.31	27.84	6.82	5900.00	0.0041	5.21	6.01	14.77	11.83	14.77	11.83
VANO 18	20.40	22.00	567.43	166.70	1239.33	251.80	46.79	11.46	5900.00	0.0041	0.68	6.07	20.76	5.09	5900.00	0.0041	5.03	5.06	14.77	11.83	14.77	11.83
VANO 18	21.60	23.00	646.40	156.32	1197.63	165.96	53.30	13.06	5900.00	0.0041	0.63	6.85	13.68	3.35	5900.00	0.0041	4.86	4.11	14.77	11.83	14.77	11.83
VANO 18	22.80	24.00	726.69	145.95	1158.03	80.10	59.92	14.68	5900.00	0.0041	0.59	7.64	6.60	1.62	5900.00	0.0041	4.70	3.16	14.77	11.83	14.77	11.83
VANO 18	24.00	25.00	399.83	135.57	1120.54	5.78	32.97	8.08	5900.00	0.0041	0.55	4.31	0.48	0.12	5900.00	0.0041	4.55	2.33	14.77	11.83	14.77	11.83
VANO 18	24.00	26.00	399.83	135.57	1120.54	5.78	32.97	8.08	5900.00	0.0041	0.55	4.31	0.48	0.12	5900.00	0.0041	4.55	2.33	14.77	11.83	14.77	11.83
VANO 18	25.20	27.00	711.62	187.04	1096.81	92.56	58.67	14.38	5900.00	0.0041	0.76	7.57	7.63	1.87	5900.00	0.0041	4.45	3.16	14.77	11.83	14.77	11.83
VANO 18	26.40	28.00	631.31	164.70	1111.62	177.51	52.05	12.75	5900.00	0.0041	0.67	6.71	14.64	3.59	5900.00	0.0041	4.51	4.05	14.77	11.83	14.77	11.83
VANO 18	27.60	29.00	552.32	142.63	1143.18	263.36	45.54	11.16	5900.00	0.0041	0.58	5.87	21.71	5.32	5900.00	0.0041	4.64	4.98	14.77	11.83	14.77	11.83
VANO 18	28.80	30.00	474.65	120.83	1182.62	349.17	39.14	9.59	5900.00	0.0041	0.49	5.04	28.79	7.05	5900.00	0.0041	4.80	5.93	14.77	11.83	14.77	11.83
VANO 18	28.80	31.00	474.65	120.83	1182.62	349.17	39.14	9.59	5900.00	0.0041	0.49	5.04	28.79	7.05	5900.00	0.0041	4.80	5.93	14.77	11.83	14.77	11.83
VANO 18	30.00	32.00	441.60	111.38	1224.62	434.95	36.41	8.92	5900.00	0.0041	0.45	4.69	35.86	8.79	5900.00	0.0041	4.97	6.88	14.77	11.83	14.77	11.83
VANO 18	31.20	33.00	535.90	124.89	1268.84	520.69	44.19	10.83	5900.00	0.0041	0.51	5.67	42.93	10.52	5900.00	0.0041	5.15	7.83	14.77	11.83	14.77	11.83
VANO 18	32.40	34.00	631.32	143.44	1314.96	606.36	52.05	12.75	5900.00	0.0041	0.58	6.67	50.00	12.25	5900.00	0.0041	5.34	8.79	14.77	11.83	14.77	11.83
VANO 18	33.60	35.00	727.84	163.77	1365.87	691.98	60.01	14.70	5900.00	0.0041	0.66	7.68	57.05	13.98	5900.00	0.0041	5.54	9.76	14.77	11.83	14.77	11.83
VANO 18	33.60	36.00	727.84	163.77	1365.87	691.98	60.01	14.70	5900.00	0.0041	0.66	7.68	57.05	13.98	5900.00	0.0041	5.54	9.76	14.77	11.83	14.77	11.83
VANO 18	34.80	37.00	825.43	184.39	1418.94	777.52	68.06	16.67	5900.00	0.0041	0.75	8.71	64.11	15.71	5900.00	0.0041	5.76	10.73	14.77	11.83	14.77	11.83
VANO 18	36.00	38.00	924.05	205.23	1473.91	862.98	76.19	18.67	5900.00	0.0041	0.83	9.75	71.15	17.43	5900.00	0.0041	5.98	11.71	14.77	11.83	14.77	11.83
VANO 18	37.20	39.00	1023.67	226.30	1530.79	948.36	84.40	20.68	5900.00	0.0041	0.92	10.80	78.19	19.16	5900.00	0.0041	6.21	12.69	14.77	11.83	14.77	12.69
VANO 18	38.40	40.00	1124.25	247.59	1589.56	1033.64	92.70	22.71	5900.00	0.0041	1.01	11.86	85.23	20.88	5900.00	0.0041	6.45	13.67	14.77	11.83	14.77	13.67
VANO 18	38.40	41.00	1124.25	247.59	1589.56	1033.64	92.70	22.71	5900.00	0.0041	1.01	11.86	85.23	20.88	5900.00	0.0041	6.45	13.67	14.77	11.83	14.77	13.67
VANO 18	39.60	42.00	1225.73	269.50	1650.24	1118.82	101.06	24.76	5900.00	0.0041	1.09	12.93	92.25	22.60	5900.00	0.0041	6.70	14.65	14.77	11.83	14.77	14.65
VANO 18	40.80	43.00	1328.09	292.13	1712.83	1203.89	109.50	26.83	5900.00	0.0041	1.19	14.01	99.26	24.32	5900.00	0.0041	6.95	15.64	14.77	11.83	15.64	15.64
VANO 18	42.00	44.00	1431.26	314.99	1777.31	1288.86	118.01	28.91	5900.00	0.0041	1.28	15.10	106.27	26.04	5900.00	0.0041	7.21	16.63	14.77	11.83	16.63	16.63
VANO 18	43.20	45.00	1535.21	338.08	1843.70	1373.70	126.58	31.01	5900.00	0.0041	1.37	16.19	113.26	27.75	5900.00	0.0041	7.48	17.62	14.77	11.83	17.62	17.62
VANO 18	43.20	46.00	1535.21	338.08	1843.70	1373.70	126.58	31.01	5900.00	0.0041	1.37	16.19	113.26	27.75	5900.00	0.0041	7.48	17.62	14.77	11.83	17.62	17.62
VANO 18	44.40	47.00	1639.87	361.39	1911.99	1458.43	135.21	33.13	5900.00	0.0041	1.47	17.30	120.25	29.46	5900.00	0.0041	7.76	18.61	14.77	11.83	18.61	18.61
VANO 18	45.60	48.00	1745.20	384.93	1982.18	1543.03	143.89	35.25	5900.00	0.0041	1.56	18.41	127.23	31.17	5900.00	0.0041	8.05	19.61	14.77	11.83	19.61	19.61
VANO 18	46.80	49.00	1851.13	408.69	2054.28	1627.50	152.63	37.39	5900.00	0.0041	1.66	19.53	134.19	32.88	5900.00	0.0041	8.34	20.61	14.77	11.83	20.61	20.61

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20 008	24 9687
ys	1 495	1 754
yi	2 505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR JUNTO AL ALMA

CARACT. RASANTE		CARACTERISTICAS TORSOR			
M est (S5)=	1.65	fyd armad =	40816.3	Ae =	20.67
Inercia XX =	20.0	fck (t/m2) =	4081.6	he =	0.25
fyd cercos =	40816	fpk (t/m2) =	190000	ue =	18.55
colg tetha =	1	colg tetha =	1.46	Ap=	0.0342
K rasant =	0.082	Beta comp=	1.44	K tors Tu3 =	1.526
Canto sec=	0.33	K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante		Hipótesis max torsor		Dos caras					Una cara	Dos caras					Una cara	FLEXIÓN TRANS			
			Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 19	0.00	1.00	2316.53	710.45	2110.72	1719.54	191.00	46.80	5900.00	0.0041	2.88	24.84	141.78	34.74	5900.00	0.0041	8.57	21.65	14.77	11.83	24.84	24.84
VANO 19	1.20	2.00	1801.53	683.29	2036.10	1635.21	148.54	36.39	5900.00	0.0041	2.77	19.58	134.83	33.03	5900.00	0.0041	8.26	20.65	14.77	11.83	20.65	20.65
VANO 19	2.40	3.00	1698.44	656.36	1963.69	1550.74	140.04	34.31	5900.00	0.0041	2.66	18.49	127.86	31.33	5900.00	0.0041	7.97	19.65	14.77	11.83	19.65	19.65
VANO 19	3.60	4.00	1605.64	629.66	1893.18	1466.14	132.39	32.43	5900.00	0.0041	2.56	17.50	120.89	29.62	5900.00	0.0041	7.68	18.65	14.77	11.83	18.65	18.65
VANO 19	4.80	5.00	1513.50	603.18	1824.67	1381.42	124.79	30.57	5900.00	0.0041	2.45	16.51	113.90	27.91	5900.00	0.0041	7.41	17.66	14.77	11.83	17.66	17.66
VANO 19	4.80	6.00	1513.50	603.18	1824.67	1381.42	124.79	30.57	5900.00	0.0041	2.45	16.51	113.90	27.91	5900.00	0.0041	7.41	17.66	14.77	11.83	17.66	17.66
VANO 19	6.00	7.00	1422.07	576.92	1757.67	1296.57	117.25	28.73	5900.00	0.0041	2.34	15.53	106.90	26.19	5900.00	0.0041	7.14	16.66	14.77	11.83	16.66	16.66
VANO 19	7.20	8.00	1331.41	550.89	1693.68	1211.61	109.78	26.90	5900.00	0.0041	2.24	14.57	99.90	24.48	5900.00	0.0041	6.87	15.67	14.77	11.83	15.67	15.67
VANO 19	8.40	9.00	1232.18	525.09	1630.18	1126.54	101.60	24.89	5900.00	0.0041	2.13	13.51	92.89	22.76	5900.00	0.0041	6.62	14.69	14.77	11.83	14.77	14.69
VANO 19	9.60	10.00	1130.68	499.51	1569.19	1041.36	93.23	22.84	5900.00	0.0041	2.03	12.43	85.86	21.04	5900.00	0.0041	6.37	13.70	14.77	11.83	14.77	13.70
VANO 19	9.60	11.00	1130.68	499.51	1569.19	1041.36	93.23	22.84	5900.00	0.0041	2.03	12.43	85.86	21.04	5900.00	0.0041	6.37	13.70	14.77	11.83	14.77	13.70
VANO 19	10.80	12.00	1030.10	474.16	1510.11	956.08	84.93	20.81	5900.00	0.0041	1.92	11.37	78.83	19.31	5900.00	0.0041	6.13	12.72	14.77	11.83	14.77	12.72
VANO 19	12.00	13.00	930.46	449.04	1452.52	870.71	76.72	18.80	5900.00	0.0041	1.82	10.31	71.79	17.59	5900.00	0.0041	5.90	11.74	14.77	11.83	14.77	11.83
VANO 19	13.20	14.00	831.83	424.14	1397.64	785.24	68.59	16.80	5900.00	0.0041	1.72	9.26	64.74	15.86	5900.00	0.0041	5.67	10.77	14.77	11.83	14.77	11.83
VANO 19	14.40	15.00	734.22	399.46	1345.69	699.70	60.54	14.83	5900.00	0.0041	1.62	8.23	57.69	14.13	5900.00	0.0041	5.46	9.80	14.77	11.83	14.77	11.83
VANO 19	14.40	16.00	717.28	399.46	1345.69	682.76	59.14	14.49	5900.00	0.0041	1.62	8.06	56.29	13.79	5900.00	0.0041	5.46	9.63	14.77	11.83	14.77	11.83
VANO 19	15.60	17.00	620.74	375.01	1297.38	597.15	51.18	12.54	5900.00	0.0041	1.52	7.03	49.24	12.06	5900.00	0.0041	5.27	8.66	14.77	11.83	14.77	11.83
VANO 19	16.80	18.00	525.30	350.79	1250.96	511.47	43.31	10.61	5900.00	0.0041	1.42	6.02	42.17	10.33	5900.00	0.0041	5.08	7.71	14.77	11.83	14.77	11.83
VANO 19	18.00	19.00	430.99	326.79	1206.45	425.74	35.54	8.71	5900.00	0.0041	1.33	5.02	35.10	8.60	5900.00	0.0041	4.90	6.75	14.77	11.83	14.77	11.83
VANO 19	19.20	20.00	489.77	177.07	1164.64	339.96	40.38	9.89	5900.00	0.0041	0.72	5.31	28.03	6.87	5900.00	0.0041	4.73	5.80	14.77	11.83	14.77	11.83
VANO 19	19.20	21.00	489.77	177.07	1164.64	339.96	40.38	9.89	5900.00	0.0041	0.72	5.31	28.03	6.87	5900.00	0.0041	4.73	5.80	14.77	11.83	14.77	11.83
VANO 19	20.40	22.00	567.43	166.70	1127.08	254.15	46.79	11.46	5900.00	0.0041	0.68	6.07	20.95	5.13	5900.00	0.0041	4.58	4.85	14.77	11.83	14.77	11.83
VANO 19	21.60	23.00	646.40	156.32	1096.13	168.30	53.30	13.06	5900.00	0.0041	0.63	6.85	13.88	3.40	5900.00	0.0041	4.45	3.92	14.77	11.83	14.77	11.83
VANO 19	22.80	24.00	726.69	145.95	1088.45	83.36	59.92	14.68	5900.00	0.0041	0.59	7.64	6.87	1.68	5900.00	0.0041	4.42	3.05	14.77	11.83	14.77	11.83
VANO 19	24.00	25.00	399.83	135.57	1115.73	3.98	32.97	8.08	5900.00	0.0041	0.55	4.31	0.33	0.08	5900.00	0.0041	4.53	2.30	14.77	11.83	14.77	11.83
VANO 19	24.00	26.00	399.83	135.57	1115.73	3.98	32.97	8.08	5900.00	0.0041	0.55	4.31	0.33	0.08	5900.00	0.0041	4.53	2.30	14.77	11.83	14.77	11.83
VANO 19	25.20	27.00	711.62	187.04	1152.93	89.30	58.67	14.38	5900.00	0.0041	0.76	7.57	7.36	1.80	5900.00	0.0041	4.68	3.24	14.77	11.83	14.77	11.83
VANO 19	26.40	28.00	631.31	164.70	1192.27	175.16	52.05	12.75	5900.00	0.0041	0.67	6.71	14.44	3.54	5900.00	0.0041	4.84	4.19	14.77	11.83	14.77	11.83
VANO 19	27.60	29.00	552.32	142.63	1233.71	261.01	45.54	11.16	5900.00	0.0041	0.58	5.87	21.52	5.27	5900.00	0.0041	5.01	5.14	14.77	11.83	14.77	11.83
VANO 19	28.80	30.00	474.65	120.83	1277.23	346.82	39.14	9.59	5900.00	0.0041	0.49	5.04	28.60	7.01	5900.00	0.0041	5.18	6.10	14.77	11.83	14.77	11.83
VANO 19	28.80	31.00	474.65	120.83	1277.23	346.82	39.14	9.59	5900.00	0.0041	0.49	5.04	28.60	7.01	5900.00	0.0041	5.18	6.10	14.77	11.83	14.77	11.83
VANO 19	30.00	32.00	441.60	111.38	1322.93	432.60	36.41	8.92	5900.00	0.0041	0.45	4.69	35.67	8.74	5900.00	0.0041	5.37	7.05	14.77	11.83	14.77	11.83
VANO 19	31.20	33.00	535.90	124.89	1370.53	518.33	44.19	10.83	5900.00	0.0041	0.51	5.67	42.74	10.47	5900.00	0.0041	5.56	8.02	14.77	11.83	14.77	11.83
VANO 19	32.40	34.00	631.32	143.44	1420.11	604.01	52.05	12.75	5900.00	0.0041	0.58	6.67	49.80	12.20	5900.00	0.0041	5.76	8.98	14.77	11.83	14.77	11.83
VANO 19	33.60	35.00	727.84	163.77	1471.57	689.62	60.01	14.70	5900.00	0.0041	0.66	7.68	56.86	13.93	5900.00	0.0041	5.97	9.95	14.77	11.83	14.77	11.83
VANO 19	33.60	36.00	727.84	163.77	1471.57	689.62	60.01	14.70	5900.00	0.0041	0.66	7.68	56.86	13.93	5900.00	0.0041	5.97	9.95	14.77	11.83	14.77	11.83
VANO 19	34.80	37.00	825.43	184.39	1524.91	775.16	68.06	16.67	5900.00	0.0041	0.75	8.71	63.91	15.66	5900.00	0.0041	6.19	10.92	14.77	11.83	14.77	11.83
VANO 19	36.00	38.00	924.05	205.23	1580.27	860.62	76.19	18.67	5900.00	0.0041	0.83	9.75	70.96	17.39	5900.00	0.0041	6.41	11.90	14.77	11.83	14.77	11.83
VANO 19	37.20	39.00	1023.67	226.30	1637.39	945.99	84.40	20.68	5900.00	0.0041	0.92	10.80	78.00	19.11	5900.00	0.0041	6.65	12.88	14.77	11.83	14.77	11.90
VANO 19	38.40	40.00	1124.25	247.59	1696.46	1031.27	92.70	22.71	5900.00	0.0041	1.01	11.86	85.03	20.83	5900.00	0.0041	6.89	13.86	14.77	11.83	14.77	12.88
VANO 19	38.40	41.00	1124.25	247.59	1696.46	1031.27	92.70	22.71	5900.00	0.0041	1.01	11.86	85.03	20.83	5900.00	0.0041	6.89	13.86	14.77	11.83	14.77	13.86
VANO 19	39.60	42.00	1225.73	269.50	1757.67	1116.45	101.06	24.76	5900.00	0.0041	1.09	12.93	92.05	22.55	5900.00	0.0041	7.13	14.84	14.77	11.83	14.84	14.84
VANO 19	40.80	43.00	1328.09	292.13	1820.31	1201.52	109.50	26.83	5900.00	0.0041	1.19	14.01	99.07	24.27	5900.00	0.0041	7.39	15.83	14.77	11.83	15.83	15.83
VANO 19	42.00	44.00	1431.26	314.99	1885.11	1286.49	118.01	28.91	5900.00	0.0041	1.28	15.10	106.07	25.99	5900.00	0.0041	7.65	16.82	14.77	11.83	16.82	16.82
VANO 19	43.20	45.00	1535.21	338.08	1951.8	1371.33	126.58	31.01	5900.00	0.0041	1.37	16.19	113.07	27.70	5900.00	0.0041	7.92	17.81	14.77	11.83	17.81	17.81
VANO 19	43.20	46.00	1535.21	338.08	1951.8	1371.33	126.58	31.01	5900.00	0.0041	1.37	16.19	113.07	27.70	5900.00	0.0041	7.92	17.81	14.77	11.83	17.81	17.81
VANO 19	44.40	47.00	1639.87	361.39	2020.4	1456.05	135.21	33.13	5900.00	0.0041	1.47	17.30	120.05	29.41	5900.00	0.0041	8.20	18.81	14.77	11.83	18.81	18.81
VANO 19	45.60	48.00	1745.20	384.93	2090.99	1540.65	143.89	35.25	5900.00	0.0041	1.56	18.41	127.03	31.12	5900.00	0.0041	8.49	19.80	14.77	11.83	19.80	19.80
VANO 19	46.80	49.00	1851.13	408.69	2163.31	1625.12	152.63	37.39	5900.00	0.0041	1.66	19.53	133.99	32.83	5900.00	0.0041	8.78	20.80	14.77	11.83	20.80	20.80
VANO 19	48.00	50.00	2366.13	432.08	2237.63	1709.45	195.09	47.80	5900.00	0.0041	1.76	24.78	140.95	34.53	5900.00	0.0041	9.08	21.81	14.77	11.83	24.78	24.78
VANO 20	0.00	1.00	2308.18	418.89	1968.64	1715.72	190.31	46.63	5900.00	0.0041	1.70	24.16	141.46	34.66	5900.00	0.0041	7.99	21.32	14.77	11.83	24.16	24.16
VANO 20	1.20	2.00	1793.23	393.69	1896.17	1631.38	147.86	36.22	5900.00	0.0041	1.60	18.91	134.51	32.95	5900.00	0.0041	7.70	20.33	14.77	11.83	20.33	20.33
VANO 20	2.40	3.00	1687.35	369.93	1826.72	1546.90	139.13	34.09	5900.00	0.0041	1.50	17.79	127.54	31.25	5900.00	0.0041	7.42	19.33	14.77	11.83	19.33	19.33
VANO 20	3.60	4.00	1582.08	346.40	1759.29	1462.30	130.45	31.96	5900.00	0.0041	1.41	16.68	120.57	29.54	5900.00	0.0041	7.14	18.34	14.77	11.83	18.34	18.34
VANO 20	4.80	5.00	1477.47	323.10	1693.69	1377.57	121.82	29.85	5900.00	0.0041	1.31	15.58	113.58	27.83	5900.00	0.0041	6.88	17.35	14.77	11.83	17.35	17.35
VANO 20	4.80	6.00	1477.47	323.10	1693.69	1377.57	121.82	29.85	5900.00	0.0041	1.31	15.58	113.58	27.83	5900.00	0.0041	6.88	17.35	14.77	11.83	17.35	17.35
VANO 20	6.00	7.00	1373.58	300.01	1630.09	1292.72	113.25	27.75	5900.00	0.0041	1.22	14.48	106.59	26.11	5900.00	0.0041	6.62	16.37	14.77	11.83	16.37	16.37
VANO 20	7.20	8.00	1269.49	277.15	1568.31	1207.76	104.67	25.64	5900.00	0.0041	1.13	13.38	99.58	24.40	5900.00	0.0041	6.37	15.38	14.77	11.83	15.38	15.38
VANO 20	8.40	9.00	1167.19	254.54	1508.50	1122.68	96.24	23.58	5900.00	0.0041	1.03	12.31	92.57	22.68	5900.00	0.0041	6.12	14.40	14.77	11.83	14.77	14.40
VANO 20	9.60	10.00	1065.76	232.20	1450.66	1037.50	87.87	21.53	5900.00	0.0041	0.94	11.24	85.54	20.96	5900.00	0.0041	5.89	13.42	14.77	11.83	14.77	13.42
VANO 20	9.60	11.00	1065.76	232.20	1450.66	1037.50	87.87	21.53	5900.00	0.0041	0.94	11.24	85.54	20.96	5900.00	0.0041	5.89	13.42	14.77	11.83	14.77	13.42
VANO 20	10.80	12.00	965.23	210.50	1395.15	952.21	79.59	19.50	5900.00	0.0041	0.85	10.18	78.51	19.24	5900.00	0.0041	5.66	12.45	14.77	11.83	14.77	12.45
VANO 20	12.00	13.00	865.66	189.50	1342.02	866.84	71.38	17.49	5900.00	0.0041	0.77	9.13	71.47	17.51	5900.00	0.0041	5.45	11.48	14.77	11.83	14.77	11.83
VANO 20	13.20	14.00	767.09	168.72	1290.81	781.37	63.25	15.50	5900.00	0.0041	0.68	8.09	64.43	15.78	5900.00	0.0041	5.24	10.51	14.77	11.83	14.77	11.83
VANO 20	14.40	15.00	669.55	149.06	1242.40	695.83	55.21	13.53	5900.00	0.0041	0.61	7.07	57.37	14.06	5900.00	0.0041	5.04	9.55	14.77	11.83	14.77	11.83
VANO 20	14.40	16.00	652.61	149.06	1242.40	678.88	53.81	13.18	5900.00	0.0041	0.61	6.89	55.98	13.71	5900.00	0.0041	5.04	9.38	14.77	11.83	14.77	11.83
VANO 20	15.60	17.00	556.13	135.09	1201.36	593.27	45.85	11.23	5900.00	0.0041	0.55	5.89	48.92	11.98	5900.00	0.0041	4.88	8.43	14.77	11.83	14.77	11.83
VANO 20	16.80	18.00	460.75	121.34	1162.24	507.59	37.99	9.31	5900.00	0.0041	0.49	4.90	41.85	10.25	5900.00	0.0041	4.72	7.49	14.77	11.83	14.77	11.83
VANO 20	18.00	19.00	366.50	107.81	1125.02	421.85	30.22	7.40	5900.00	0.0041	0.44	3.92	34.78	8.52	5900.00	0.0041	4.57	6.54	14.77	11.83	14.77	11.83
VANO 20	19.20	20.00	415.94	111.37	1089.83	336.07	34.29	8.40	5900.00	0.0041	0.45	4.43	27.71	6.79	5900.00	0.0041	4.42	5.61	14.77	11.83	14.77	11.83
VANO 20	19.20	21.00	415.94	111.37	1089.83	336.07	34.29	8.40	5900.00	0.0041	0.45	4.43	27.71	6.79	5900.00	0.0041	4.42	5.61	14.77	11.83	14.77	11.83
VANO 20	20.40	22.00	496.78	133.21	1090.04	252.92	40.96	10.04	5900.00	0.0041	0.54	5.29	20.85	5.11	5900.00	0.0041	4.42	4.77	14.77	11.83	14.77	11.83
VANO 20	21.60	23.00	578.93	155.32	1104.07	166.18	47.73	11.69	5900.00	0.0041	0.63	6.16	13.70	3.36	5900.00	0.0041	4.48	3.92	14.77	11.83	14.77	11.83
VANO 20	22.80	24.00	662.40	177.71	1129.43	79.41	54.62	13.38	5900.00	0.0041	0.72	7.05	6.55	1.60	5900.00	0.0041	4.58	3.09	14.77	11.83	14.77	11.83
VANO 20	24.00	25.00	338.74	200.37	1164.56	7.33	27.93	6.84	5900.00	0.0041	0.81	3.83	0.60	0.15	5900.00	0.0041	4.73	2.44	14.77	11.83	14.77	11.83
VANO 20	24.00	26.00	338.74	200.37	1164.56	7.33	27.93	6.84	5900.00	0.0041	0.81	3.83	0.60	0.15	5900.00	0.0041	4.73	2.44	14.77	11.83	14.77	11.83
VANO 20	25.20	27.00	646.53	135.02	1201.80	93.20	53.31	13.06	5900.00	0.0041	0.55	6.80	7.68	1.88	5900.00	0.0041	4.88	3.38	14.77	11.83	14.77	11.83
VANO 20	26.40	28.00	563.13	145.47	1241.15	179.06	46.43	11.38	5900.00	0.0041	0.59	5.98	14.76	3.62	5900.00	0.0041	5.04	4.33	14.77	11.83	14.77	11.83
VANO 20	27.60	29.00	481.05	155.92	1282.62	264.90	39.66	9.72	5900.00	0.0041	0.63	5.18	21.84	5.35	5900.00	0.0041	5.21	5.28	14.77	11.83	14.77	11.83
VANO 20	28.80	30.00	400.28	170.28	1326.21	350.72	33.00	8.09	5900.00	0.0041	0.69	4.39	28.92	7.08	5900.00	0.0041	5.38	6.23	14.77	11.83	14.77	11.83
VANO 20	28.80	31.00	400.28	170.28	1326.21	350.72	33.00	8.09	5900.00	0.0041	0.69	4.39	28.92	7.08	5900.00	0.0041	5.38	6.23	14.77	11.83	14.77	11.83
VANO 20	30.00	32.00	382.92	317.64	1371.92	436.50	31.57	7.74	5900.00	0.0041	1.29	4.51	35.99	8.82	5900.00	0.0041	5.57	7.19	14.77	11.83	14.77	11.83
VANO 20	31.20	33.00	477.23	341.66	1419.63	522.23	39.35	9.64	5900.00	0.0041	1.39	5.51	43.06	10.55	5900.00	0.0041	5.76	8.16	14.77	11.83	14.77	11.83
VANO 20	32.40	34.00	572.66	365.91	1469.26	607.80	47.22	11.57	5900.00	0.0041	1.49	6.53	50.12	12.28	5900.00	0.0041	5.96	9.12	14.77	11.83	14.77	11.83
VANO 20	33.60	35.00	669.20	390.38	1520.80	693.51	55.18	13.52	5900.00	0.0041	1.58	7.55	57.18	14.01	5900.00	0.0041	6.17	10.09	14.77	11.83	14.77	11.83
VANO 20	33.60	36.00	669.20	390.38	1520.80	693.51	55.18	13.52	5900.00	0.0041	1.58	7.55	57.18	14.01	5900.00	0.0041	6.17	10.09	14.77	11.83	14.77	11.83
VANO 20	34.80	37.00	766.79	415.08	1574.25	779.05	63.22	15.49	5900.00	0.0041	1.68	8.59	64.23	15.74	5900.00	0.0041	6.39	11.06	14.77	11.83	14.77	11.83
VANO 20	36.00	38.00	865.42	439.99	1629.61	864.51	71.36	17.48	5900.00	0.0041	1.79	9.63	71.28	17.46	5900.00	0.0041	6.61	12.04	14.77	11.83	14.77	12.04
VANO 20	37.20	39.00	965.04	465.14	1686.89	949.88	79.57	19.49	5900.00	0.0041	1.89	10.69	78.32	19.19	5900.00	0.0041	6.85	13.02	14.77	11.83	14.77	13.02
VANO 20	38.40	40.00	1065.61	490.50	1746.07	1035.15	87.86	21.53	5900.00	0.0041	1.99	11.76	85.35	20.91	5900.00	0.0041	7.09	14.00	14.77	11.83	14.77	14.00
VANO 20	38.40	41.00	1065.61	490.50	1746.07	1035.15	87.86	21.53	5900.00	0.0041	1.99	11.76	85.35	20.91	5900.00	0.0041	7.09	14.00	14.77	11.83	14.77	14.00
VANO 20	39.60	42.00	1167.09	516.10	1807.17	1120.33	96.23	23.58	5900.00	0.0041	2.09	12.84	92.37	22.63	5900.00	0.0041	7.34	14.98	14.77	11.83	14.98	14.98
VANO 20	40.80	43.00	1269.43	541.91	1870.17	1205.40	104.67	25.64	5900.00	0.0041	2.20	13.92	99.39	24.35	5900.00	0.0041	7.59	15.97	14.77	11.83	15.97	15.97
VANO 20	42.00	44.00	1372.60	567.95	1935.09	1290.35	113.17	27.73	5900.00	0.0041	2.31	15.02	106.39	26.07	5900.00	0.0041	7.85	16.96	14.77	11.83	16.96	16.96
VANO 20	43.20	45.00	1476.52	594.21	2001.92	1375.19	121.74	29.83	5900.00	0.0041	2.41	16.12	113.39	27.78	5900.00	0.0041	8.13	17.95	14.77	11.83	17.95	17.95
VANO 20	43.20	46.00	1476.52	594.21	2001.92	1375.19	121.74	29.83	5900.00	0.0041	2.41	16.12	113.39	27.78	5900.00	0.0041	8.13	17.95	14.77	11.83	17.95	17.95
VANO 20	44.40	47.00	1581.17	620.70	2070.66	1459.91	130.37	31.94	5900.00	0.0041	2.52	17.23	120.37	29.49	5900.00	0.0041	8.41	18.95	14.77	11.83	18.95	18.95
VANO 20	45.60	48.00	1686.47	647.41	2141.31	1544.50	139.05	34.07	5900.00	0.0041	2.63	18.35	127.35	31.20	5900.00	0.0041	8.69	19.95	14.77	11.83	19.95	19.95
VANO 20	46.80	49.00	1792.38	674.34	2213.87	1628.96	147.78	36.21	5900.00	0.0041	2.74	19.47	134.31	32.91	5900.00	0.0041	8.99	20.95	14.77	11.83	20.95	20.95

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

ARMADO DE LOSA INFERIOR JUNTO AL ALMA

CARACTERISTICAS MECANICAS		
	SEC CDV	SEC S PILA
I	20 008	24 9687
ys	1 495	1 754
yi	2 505	2 246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28 5	28.5
% TESADO	0.8	0 75	75%
% PERDIDA	0.16	0 2	20%
COEF SEG	1	1	1.0

CARACT. RASANTE	
M est (S5)=	1.65
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.082
Canto sec=	0.33

CARACTERISTICAS TORSOR			
fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

			Hipótesis max cortante		Hipótesis max torsor			Dos caras				Una cara		Dos caras				Una cara	FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 21	0.00	1 00	2295 31	303 03	1698 01	1721 99	189.25	46.37	5900.00	0.0041	1.23	23.80	141.98	34.79	5900.00	0.0041	6.89	20.84	14.77	11.83	23.80	23.80
VANO 21	1.20	2 00	1780 31	286 39	1634.34	1637 62	146.76	35.96	5900.00	0.0041	1.16	18.56	135.02	33.08	5900.00	0.0041	6.63	19.86	14.77	11.83	19.86	19.86
VANO 21	2.40	3 00	1674 38	269 99	1572 62	1553 13	138.06	33 82	5900.00	0.0041	1.10	17.46	128.06	31.37	5900.00	0.0041	6.38	18.88	14.77	11.83	18.88	18.88
VANO 21	3.60	4 00	1569 07	253 81	1512 87	1468.50	129.31	31.70	5900.00	0.0041	1.03	16.36	121 08	29.66	5900.00	0.0041	6.14	17.90	14.77	11.83	17.90	17.90
VANO 21	4.80	5 00	1464 42	237 86	1455 07	1383.75	120.74	29.58	5900.00	0.0041	0.97	15.27	114.09	27.95	5900.00	0.0041	5.91	16.93	14.77	11.83	16.93	16.93
VANO 21	4.80	6 00	1464 42	237 86	1455 07	1383 75	120.74	29.58	5900.00	0.0041	0.97	15.27	114.09	27.95	5900.00	0.0041	5.91	16.93	14.77	11.83	16.93	16.93
VANO 21	6.00	7 00	1360.51	222 14	1399.24	1298 88	112.18	27.48	5900.00	0.0041	0.90	14.19	107.10	26.24	5900.00	0.0041	5.68	15.96	14.77	11.83	15.96	15.96
VANO 21	7.20	8 00	1257 38	206 65	1345.36	1213.90	103.61	25 40	5900.00	0.0041	0.84	13.12	100.09	24.52	5900.00	0.0041	5.46	14.99	14.77	11.83	14.99	14.99
VANO 21	8.40	9 00	1155.08	196 47	1293.44	1128.80	95.24	23.33	5900.00	0.0041	0.80	12.07	93.07	22.80	5900.00	0.0041	5.25	14.03	14.77	11.83	14.77	14.03
VANO 21	9.60	10 00	1053.66	206 80	1243.48	1043.59	86.88	21 28	5900.00	0.0041	0.84	11.06	86.05	21 08	5900.00	0.0041	5.05	13.06	14.77	11.83	14.77	13.06
VANO 21	9.60	11 00	1053.66	206 80	1243.48	1043.59	86.88	21 28	5900.00	0.0041	0.84	11.06	86.05	21.08	5900.00	0.0041	5.05	13.06	14.77	11.83	14.77	13.06
VANO 21	10.80	12 00	953.16	217 13	1195.48	958 29	78.59	19.25	5900.00	0.0041	0.88	10 07	79 01	19.36	5900.00	0.0041	4 85	12.11	14.77	11.83	14.77	12.11
VANO 21	12.00	13 00	853.63	227.45	1162.21	852 42	70.38	17.24	5900.00	0.0041	0.92	9 08	70.28	17.22	5900.00	0.0041	4.72	10.97	14.77	11.83	14.77	11.83
VANO 21	13.20	14 00	755 10	237 78	1162 23	795.61	62.26	15.25	5900.00	0.0041	0.97	8 11	65 60	16.07	5900.00	0.0041	4.72	10.39	14.77	11.83	14.77	11.83
VANO 21	14.40	15.00	657.62	248.11	1164.98	709 15	54.22	13.28	5900.00	0.0041	1.01	7.15	58 47	14.33	5900.00	0.0041	4.73	9.53	14.77	11.83	14.77	11.83
VANO 21	14.40	16 00	640 68	248.11	1164 98	692.21	52.81	12.94	5900.00	0.0041	1.01	6.97	57.07	13.98	5900.00	0.0041	4.73	9.36	14.77	11.83	14.77	11.83
VANO 21	15.60	17 00	544 28	258 43	1169.74	605 67	44.88	10.99	5900.00	0.0041	1.05	6 02	49.94	12.24	5900.00	0.0041	4.75	8.49	14.77	11.83	14.77	11.83
VANO 21	16.80	18 00	448.99	268.76	1176.50	519 08	37.02	9 07	5900.00	0.0041	1.09	5.08	42 80	10.49	5900.00	0.0041	4 78	7.63	14.77	11.83	14.77	11.83
VANO 21	18.00	19 00	354 85	279 09	1188 15	432 44	29.26	7.17	5900.00	0.0041	1.13	4 15	35.66	8.74	5900.00	0.0041	4.82	6.78	14.77	11.83	14.77	11.83
VANO 21	19.20	20 00	390.69	368 44	1206 84	345.75	32 21	7 89	5900.00	0.0041	1.50	4.69	28.51	6.98	5900.00	0.0041	4.90	5.94	14.77	11.83	14.77	11.83
VANO 21	19.20	21 00	390.69	368 44	1206 84	345.75	32 21	7.89	5900.00	0.0041	1.50	4.69	28.51	6.98	5900.00	0.0041	4.90	5.94	14.77	11.83	14.77	11.83
VANO 21	20.40	22 00	468 48	375.14	1236.59	259.02	38.63	9 46	5900.00	0.0041	1.52	5.49	21.36	5.23	5900.00	0.0041	5.02	5.13	14.77	11.83	14.77	11.83
VANO 21	21.60	23.00	550.77	397.31	1268.51	172.27	45.41	11 13	5900.00	0.0041	1.61	6 37	14.20	3.48	5900.00	0.0041	5.15	4.31	14.77	11.83	14.77	11.83
VANO 21	22.80	24.00	634 38	419.76	1302.59	85.51	52.31	12 81	5900.00	0.0041	1.70	7.26	7 05	1.73	5900.00	0.0041	5.29	3.51	14.77	11.83	14.77	11.83
VANO 21	24.00	25 00	311.70	330.72	1338.84	3.64	25.70	6 30	5900.00	0.0041	1.34	3 82	0 30	0 07	5900.00	0.0041	5.43	2.75	14.77	11.83	14.77	11.83
VANO 21	24.00	26 00	311 70	330.72	1338.84	3 64	25.70	6.30	5900.00	0.0041	1 34	3.82	0 30	0.07	5900.00	0.0041	5.43	2.75	14.77	11.83	14.77	11.83
VANO 21	25.20	27.00	635.47	341.05	1377.24	87.22	52.40	12.84	5900.00	0.0041	1.38	7.11	7.19	1.76	5900.00	0.0041	5.59	3.68	14.77	11.83	14.77	11.83
VANO 21	26.40	28 00	552 24	361.32	1417.80	173.08	45.52	11.16	5900.00	0.0041	1.47	6 31	14 27	3 50	5900.00	0.0041	5.76	4.63	14.77	11.83	14.77	11.83
VANO 21	27.60	29 00	470 33	383.04	1460.53	258.91	38.78	9.50	5900.00	0.0041	1.55	5 53	21 35	5.23	5900.00	0.0041	5.93	5.58	14.77	11.83	14.77	11.83
VANO 21	28.80	30 00	390.28	372.03	1505.42	344.70	32.18	7.88	5900.00	0.0041	1.51	4.70	28.42	6.96	5900.00	0.0041	6.11	6.54	14.77	11.83	14.77	11.83
VANO 21	28.80	31 00	390 28	372.03	1505.42	344.70	32.18	7.88	5900.00	0.0041	1.51	4.70	28.42	6.96	5900.00	0.0041	6.11	6.54	14.77	11.83	14.77	11.83
VANO 21	30.00	32 00	355.65	560 21	1552 46	430.46	29.32	7.18	5900.00	0.0041	2.27	4 73	35 49	8.70	5900.00	0.0041	6.30	7.50	14.77	11.83	14.77	11.83
VANO 21	31.20	33 00	450.15	584.33	1601.57	516.16	37.12	9.09	5900.00	0.0041	2 37	5.73	42.56	10.43	5900.00	0.0041	6.50	8.46	14.77	11.83	14.77	11.83
VANO 21	32.40	34.00	545 77	608.68	1652.62	601.80	45.00	11.02	5900.00	0.0041	2.47	6 75	49.62	12.16	5900.00	0.0041	6.71	9.43	14.77	11.83	14.77	11.83
VANO 21	33.60	35 00	642.48	633.26	1705.63	687.38	52.97	12.98	5900.00	0.0041	2.57	7.77	56.68	13.89	5900.00	0.0041	6.92	10.40	14.77	11.83	14.77	11.83
VANO 21	33.60	36.00	642.48	633.26	1705.63	687.38	52.97	12.98	5900.00	0.0041	2.57	7 77	56.68	13.89	5900.00	0.0041	6.92	10.40	14.77	11.83	14.77	11.83
VANO 21	34.80	37.00	740 26	658.07	1760 59	772.87	61.04	14.95	5900.00	0.0041	2.67	8.81	63.72	15.61	5900.00	0.0041	7.15	11.38	14.77	11.83	14.77	11.83
VANO 21	36.00	38 00	839 06	683.11	1817.51	858.28	69 18	16.95	5900.00	0.0041	2.77	9.86	70.77	17.34	5900.00	0.0041	7.38	12.36	14.77	11.83	14.77	12.36
VANO 21	37.20	39 00	938.84	708 38	1876.37	943 60	77.41	18.97	5900.00	0.0041	2.88	10 92	77.80	19.06	5900.00	0.0041	7.62	13.34	14.77	11.83	14.77	13.34
VANO 21	38.40	40 00	1039.57	733.88	1937.19	1028.81	85.71	21 00	5900.00	0.0041	2.98	11 99	84 83	20 78	5900.00	0.0041	7.86	14.32	14.77	11.83	14.77	14.32
VANO 21	39.60	42 00	1141.20	759.61	1999.96	1113.92	94.09	23 05	5900.00	0.0041	3.08	13.07	91.84	22.50	5900.00	0.0041	8.12	15.31	14.77	11.83	15.31	15.31
VANO 21	40.80	43.00	1243.68	785.57	2064 68	1198.92	102.54	25.12	5900.00	0.0041	3.19	14.16	98.85	24.22	5900.00	0.0041	8.38	16.30	14.77	11.83	16.30	16.30
VANO 21	42.00	44.00	1346.97	811.75	2131.36	1283.80	111.06	27.21	5900.00	0.0041	3.30	15.25	105.85	25.93	5900.00	0.0041	8.65	17.29	14.77	11.83	17.29	17.29
VANO 21	43.20	45.00	1451.01	838.17	2199 98	1368.55	119.64	29.31	5900.00	0.0041	3.40	16.36	112.84	27.65	5900.00	0.0041	8.93	18.29	14.77	11.83	18.29	18.29
VANO 21	43.20	46.00	1451.01	838.17	2199 98	1368 55	119.64	29.31	5900.00	0.0041	3.40	16.36	112.84	27.65	5900.00	0.0041	8.93	18.29	14.77	11.83	18.29	18.29
VANO 21	44.40	47.00	1555.74	864 82	2270 56	1453.17	128.27	31.43	5900.00	0.0041	3.51	17.47	119.82	29.36	5900.00	0.0041	9.22	19.29	14.77	11.83	19.29	19.29
VANO 21	45.60	48.00	1661.12	891.69	2343.09	1537.67	136.96	33.56	5900.00	0.0041	3.62	18.59	126.78	31.06	5900.00	0.0041	9.51	20.29	14.77	11.83	20.29	20.29
VANO 21	46.80	49.00	1767.08	918.80	2417.58	1622.02	145.70	35.70	5900.00	0.0041	3.73	19.71	133.74	32.77	5900.00	0.0041	9.81	21.29	14.77	11.83	21.29	21.29
VANO 21	48.00	50.00	1872.45	946.00	2491.20	1706.23	154.11	37.76	5900.00	0.0041	3.84	20.87	140.68	34.47	5900.00	0.0041	10.12	22.30	14.77	11.83	22.30	22.87
VANO 22	0.00	1 00	2209.25	452.93	1436.54	1777 55	182 16	44.63	5900.00	0.0041	1.84	23.23	146 56	35.91	5900.00	0.0041	5.83	20.87	14.77	11.83	23.23	23 23
VANO 22	0.98	2 00	1775 04	461 26	1424 01	1708.04	146 36	35 86	5900.00	0.0041	1.87	18 86	140.83	34 50	5900.00	0.0041	5.78	20.14	14.77	11.83	20.14	20.14
VANO 22	1.95	3 00	1688.21	469 59	1413.15	1638 41	139 20	34.10	5900.00	0.0041	1.91	18.00	135 09	33 10	5900.00	0.0041	5.74	19 42	14.77	11.83	19.42	19.42
VANO 22	2.93	4 00	1601 72	477.91	1403.95	1568 67	132.06	32.36	5900.00	0.0041	1.94	17.15	129 34	31.69	5900.00	0.0041	5.70	18.69	14.77	11.83	18.69	18.69
VANO 22	3.90	5 00	1515 59	486 24	1396 44	1498 82	124.96	30 62	5900.00	0.0041	1.97	16 29	123 58	30 28	5900.00	0.0041	5.67	17.97	14.77	11.83	17.97	17.97
VANO 22	3.90	6 00	1515 59	486 24	1396.44	1498 82	124.96	30.62	5900.00	0.0041	1.97	16.29	123.58	30.28	5900.00	0.0041	5.67	17.97	14.77	11.83	17.97	17.97
VANO 22	4.88	7 00	1429.87	494 57	1392.92	1428.85	117.90	28.88	5900.00	0.0041	2.01	15.45	117.81	28.86	5900.00	0.0041	5.65	17.26	14.77	11.83	17.26	17.26
VANO 22	5.85	8 00	1344.58	502.90	1391.06	1358.78	110.86	27.16	5900.00	0.0041	2.04	14 60	112.03	27.45	5900.00	0.0041	5.65	16.55	14.77	11.83	16.55	16.55
VANO 22	6.83	9 00	1259.74	511 23	1390 86	1288.59	103 87	25 45	5900.00	0.0041	2.08	13 76	106 25	26.03	5900.00	0.0041	5.65	15.84	14.77	11.83	15.84	15.84
VANO 22	7.80	10 00	1175 38	519.55	1392 33	1218 29	96 91	23.74	5900.00	0.0041	2.11	12 93	100 45	24.61	5900.00	0.0041	5.65	15 13	14.77	11.83	15.13	15.13
VANO 22	7.80	11.00	1175 38	519.55	1392 33	1218 29	96.91	23.74	5900.00	0.0041	2 11	12.93	100.45	24.61	5900.00	0.0041	5.65	15.13	14.77	11.83	15.13	15.13
VANO 22	8.78	12 00	1091 54	527 88	1405 78	1147.89	90.00	22.05	5900.00	0.0041	2.14	12.10	94 65	23.19	5900.00	0.0041	5.71	14.45	14.77	11.83	14.77	14.45
VANO 22	9.75	13 00	1008 29	536.21	1421.79	1077 40	83.14	20.37	5900.00	0.0041	2.18	11.27	88 83	21.76	5900.00	0.0041	5.77	13.77	14.77	11.83	14.77	13.77
VANO 22	10.73	14 00	925.80	544 54	1439 61	1006.92	76 33	18.70	5900.00	0.0041	2.21	10 46	83.02	20 34	5900.00	0.0041	5.84	13.09	14.77	11.83	14.77	13.09
VANO 22	11.70	15.00	844.11	552.87	1459.23	936 43	69.60	17.05	5900.00	0.0041	2.24	9.65	77.21	18.92	5900.00	0.0041	5.92	12.42	14.77	11.83	14.77	12.42
VANO 22	11.70	16.00	844.11	552.87	1459.23	936 43	69.60	17.05	5900.00	0.0041	2 24	9 65	77.21	18.92	5900.00	0.0041	5.92	12.42	14.77	11.83	14.77	12.42
VANO 22	12.68	17 00	763 24	561.19	1480 65	865.94	62.93	15.42	5900.00	0.0041	2.28	8.85	71 40	17.49	5900.00	0.0041	6.01	11.75	14.77	11.83	14.77	11.83
VANO 22	13 65	18 00	683 20	574.55	1503 89	795.46	56.33	13.80	5900.00	0.0041	2.33	8.07	65.59	16.07	5900.00	0.0041	6.10	11.09	14.77	11.83	14.77	11.83
VANO 22	14.63	19.00	604.03	593.27	1528.92	724.97	49.80	12.20	5900.00	0.0041	2.41	7.30	59.78	14.64	5900.00	0.0041	6.21	10.43	14.77	11.83	14.77	11.83
VANO 22	15.60	20 00	525.73	611.77	1555.77	654.50	43.35	10.62	5900.00	0.0041	2.48	6 55	53.96	13.22	5900.00	0.0041	6.32	9.77	14.77	11.83	14.77	11.83
VANO 22	15.60	21.00	525.73	611 77	1555.77	654.50	43.35	10.62	5900.00	0.0041	2.48	6.55	53.96	13.22	5900.00	0.0041	6.32	9.77	14.77	11.83	14.77	11.83
VANO 22	16.58	22 00	448.34	630.03	1584.42	584.03	36.97	9.06	5900.00	0.0041	2.56	5.81	48.15	11.80	5900.00	0.0041	6.43	9.11	14.77	11.83	14.77	11.83
VANO 22	17.55	23 00	371.88	648.06	1614.88	513.57	30.66	7.51	5900.00	0.0041	2.63	5.07	42 34	10 37	5900.00	0.0041	6.56	8.46	14.77	11.83	14.77	11.83
VANO 22	18.53	24 00	296.35	665.86	1647.15	443.12	24.43	5 99	5900.00	0.0041	2.70	4.34	36.54	8.95	5900.00	0.0041	6.69	7.82	14.77	11.83	14.77	11.83
VANO 22	19.50	25.00	323.80	746.69	1681 22	372.69	26.70	6.54	5900.00	0.0041	3.03	4.79	30.73	7.53	5900.00	0.0041	6.82	7.18	14.77	11.83	14.77	11.83
VANO 22	19.50	26 00	323 80	746 69	1681 22	372.69	26.70	6.54	5900.00	0.0041	3.03	4.79	30 73	7.53	5900.00	0.0041	6.82	7.18	14.77	11.83	14.77	11.83
VANO 22	20.48	27 00	386.36	744 04	1717.09	302.27	31.86	7.80	5900.00	0.0041	3.02	5.41	24.92	6.11	5900.00	0.0041	6.97	6.54	14.77	11.83	14.77	11.83
VANO 22	21.45	28 00	451 29	750.66	1754.78	231 67	37.21	9.12	5900.00	0.0041	3.05	6.08	19.12	4.68	5900.00	0.0041	7.12	5.90	14.77	11.83	14.77	11.83
VANO 22	22.43	29 00	351 06	734.72	1794.27	161.49	28.95	7.09	5900.00	0.0041	2.98	5.04	13.32	3.26	5900.00	0.0041	7.28	5 27	14.77	11.83	14.77	11.83
VANO 22	23.40	30 00	703.55	751.35	1835.57	91.13	58.01	14.21	5900.00	0.0041	3.05	8.63	7.51	1.84	5900.00	0.0041	7.45	4.65	14.77	11.83	14.77	11.83
VANO 22	23.40	31.00	686.61	751.35	1835.57	74.19	56.61	13.87	5900.00	0.0041	3.05	8.46	6.12	1.50	5900.00	0.0041	7.45	4.47	14.77	11.83	14.77	11.83
VANO 22	24.38	32 00	617.19	767.75	1878 67	14.17	50.89	12 47	5900.00	0.0041	3.12	7.79	1 17	0 29	5900.00	0.0041	7.63	3.96	14.77	11.83	14.77	11.83
VANO 22	25.35	33 00	550 16	783 92	1923.58	65 66	45.36	11.11	5900.00	0.0041	3.18	7.15	5.41	1.33	5900.00	0.0041	7.81	4.57	14.77	11.83	14.77	11.83
VANO 22	26.33	34 00	486 82	705.22	1970.30	135 20	40.14	9.83	5900.00	0.0041	2.86	6.35	11.15	2.73	5900.00	0.0041	8.00	5.36	14.77	11.83	14.77	11.83
VANO 22	27.30	35.00	425.53	717.40	2018 82	204.71	35.09	8 60	5900.00	0.0041	2.91	5.75	16.88	4.14	5900.00	0.0041	8.19	6.17	14.77	11.83	14.77	11.83
VANO 22	27.30	36 00	425 53	717.40	2018.82	204.71	35.09	8 60	5900.00	0.0041	2.91	5.75	16.88	4.14	5900.00	0.0041	8.19	6.17	14.77	11.83	14.77	11.83
VANO 22	28.28	37 00	364 89	729.38	2069.15	274.19	30.09	7.37	5900.00	0.0041	2.96	5.17	22.61	5.54	5900.00	0.0041	8.40	6.97	14.77	11.83	14.77	11.83
VANO 22	29.25	38 00	304.91	741.17	2121.29	343.63	25 14	6.16	5900.00	0.0041	3.01	4.58	28.33	6.94	5900.00	0.0041	8.61	7.78	14.77	11.83	14.77	11.83
VANO 22	30.23	39 00	350.29	1002.05	2175.22	413.02	28.88	7.08	5900.00	0.0041	4.07	5.57	34.05	8.34	5900.00	0.0041	8.83	8.59	14.77	11.83	14.77	11.83
VANO 22	31.20	40 00	429.93	1023.59	2230 85	482.37	35.45	8.68	5900.00	0.0041	4.15	6.42	39.77	9.74	5900.00	0.0041	9.06	9.40	14.77	11.83	14.77	11.83
VANO 22	31.20	41.00	429 93	1023.59	2230.85	482.37	35.45	8.68	5900.00	0.0041	4.15	6.42	39.77	9.74	5900.00	0.0041	9.06	9.40	14.77	11.83	14.77	11.83
VANO 22	32.18	42 00	510.60	1045.32	2288.11	551.68	42.10	10.31	5900.00	0.0041	4.24	7.28	45.49	11.14	5900.00	0.0041	9.29	10.22	14.77	11.83	14.77	11.83
VANO 22	33.15	43.00	592.29	1067.25	2347.00	620.93	48.84	11.96	5900.00	0.0041	4.33	8.15	51.20	12.54	5900.00	0.0041	9.53	11.04	14.77	11.83	14.77	11.83
VANO 22	34.13	44 00	675.00	1089.36	2407.53	690.13	55.65	13.64	5900.00	0.0041	4.42	9.03	56.90	13.94	5900.00	0.0041	9.77	11.86	14.77	11.83	14.77	11.86
VANO 22	35.10	45.00	758.73	1111.67	2469.70	759.28	62.56	15.33	5900.00	0.0041	4.51	9.92	62.60	15.34	5900.00	0.0041	10.03	12.68	14.77	11.83	14.77	12.68
VANO 22	35.10	46 00	982.91	1111.67	2469.70	983.47	81.04	19.86	5900.00	0.0041	4.51	12.18	81.09	19.87	5900.00	0.0041	10.03	14.95	14.77	11.83	14.95	14.95
VANO 22	36.08	47.00	1067.66	1134.16	2533.50	1052.55	88.03	21.57	5900.00	0.0041	4.60	13.09	86.78	21.26	5900.00	0.0041	10.28	15.77	14.77	11.83	15.77	15.77
VANO 22	37.05	48 00	1153.42	1156.85	2598.94	1121.58	95.10	23.30	5900.00	0.0041	4.70	14.00	92.48	22.66	5900.00	0.0041	10.55	16.60	14.77	11.83	16.60	16.60
VANO 22	38.03	49.00	1240.19	1179.72	2666.13	1190.57	102.26	25.05	5900.00	0.0041	4.79	14.92	98.16	24.05	5900.00	0.0041	10.82	17.44	14.77	11.83	17.44	17.44

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC COV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	4	Variables
Nº CORDON	25	9	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR EN ZONA CENTRAL

CARACT. RASANTE		CARACTERISTICAS TORSOR			
M est (S6)=	1.16	fyd armad =	40816.3	Ae =	20.67
Inercia XX =	20.0	fck (t/m2) =	4081.6	he =	0.25
fyd cercos =	40816	fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1	cotg tetha =	1.46	Ap=	0.0342
K rasant =	0.058	Beta comp=	1.44	K tors Tu3 =	1.526
Canto sec=	0.33	K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC | **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** | **ARMADO DEFINITIV**

			Hipótesis max cortante		Hipótesis max torsor		Dos caras					Dos caras					Una cara	FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 1	0.00	1.00	1536.07	865.68	2253.04	1061.72	89.08	21.83	5900.00	0.0041	3.51	12.67	61.57	15.09	5900.00	0.0041	9.15	12.12	14.77	11.83	14.77	12.67
VANO 1	0.98	2.00	1122.11	842.66	2183.16	992.87	65.08	15.94	5900.00	0.0041	3.42	9.68	57.58	14.11	5900.00	0.0041	8.87	11.49	14.77	11.83	14.77	11.83
VANO 1	1.95	3.00	1035.33	819.83	2116.53	923.74	60.04	14.71	5900.00	0.0041	3.33	9.02	53.57	13.13	5900.00	0.0041	8.59	10.86	14.77	11.83	14.77	11.83
VANO 1	2.93	4.00	949.57	797.20	2050.89	854.71	55.07	13.49	5900.00	0.0041	3.24	8.36	49.57	12.14	5900.00	0.0041	8.33	10.23	14.77	11.83	14.77	11.83
VANO 1	3.90	5.00	864.82	774.77	1986.12	785.62	50.15	12.29	5900.00	0.0041	3.14	7.72	45.56	11.16	5900.00	0.0041	8.07	9.61	14.77	11.83	14.77	11.83
VANO 1	3.90	6.00	864.82	774.77	1986.12	785.62	50.15	12.29	5900.00	0.0041	3.14	7.72	45.56	11.16	5900.00	0.0041	8.07	9.61	14.77	11.83	14.77	11.83
VANO 1	4.88	7.00	781.09	752.53	1924.64	716.47	45.30	11.10	5900.00	0.0041	3.05	7.08	41.55	10.18	5900.00	0.0041	7.81	9.00	14.77	11.83	14.77	11.83
VANO 1	5.85	8.00	698.39	730.48	1864.03	647.26	40.50	9.92	5900.00	0.0041	2.97	6.44	37.54	9.20	5900.00	0.0041	7.57	8.38	14.77	11.83	14.77	11.83
VANO 1	6.83	9.00	616.71	708.64	1805.11	578.00	35.77	8.76	5900.00	0.0041	2.88	5.82	33.52	8.21	5900.00	0.0041	7.33	7.77	14.77	11.83	14.77	11.83
VANO 1	7.80	10.00	536.05	686.98	1747.16	508.70	31.09	7.62	5900.00	0.0041	2.79	5.20	29.50	7.23	5900.00	0.0041	7.09	7.16	14.77	11.83	14.77	11.83
VANO 1	7.80	11.00	536.05	686.98	1747.16	508.70	31.09	7.62	5900.00	0.0041	2.79	5.20	29.50	7.23	5900.00	0.0041	7.09	7.16	14.77	11.83	14.77	11.83
VANO 1	8.78	12.00	456.41	665.53	1692.20	439.34	26.47	6.48	5900.00	0.0041	2.70	4.59	25.48	6.24	5900.00	0.0041	6.87	6.56	14.77	11.83	14.77	11.83
VANO 1	9.75	13.00	377.80	644.15	1638.47	369.94	21.91	5.37	5900.00	0.0041	2.61	3.99	21.45	5.26	5900.00	0.0041	6.65	5.95	14.77	11.83	14.77	11.83
VANO 1	10.73	14.00	320.20	406.97	1586.49	300.50	18.57	4.55	5900.00	0.0041	1.65	3.10	17.43	4.27	5900.00	0.0041	6.44	5.35	14.77	11.83	14.77	11.83
VANO 1	11.70	15.00	380.86	394.96	1536.36	231.02	22.09	5.41	5900.00	0.0041	1.60	3.51	13.40	3.28	5900.00	0.0041	6.24	4.76	14.77	11.83	14.77	11.83
VANO 1	11.70	16.00	397.80	394.96	1536.36	214.08	23.07	5.65	5900.00	0.0041	1.60	3.63	12.42	3.04	5900.00	0.0041	6.24	4.64	14.77	11.83	14.77	11.83
VANO 1	12.68	17.00	459.12	382.76	1488.09	144.57	26.63	6.52	5900.00	0.0041	1.55	4.04	8.38	2.05	5900.00	0.0041	6.04	4.05	14.77	11.83	14.77	11.83
VANO 1	13.65	18.00	522.90	446.83	1441.68	75.02	30.33	7.43	5900.00	0.0041	1.81	4.62	4.35	1.07	5900.00	0.0041	5.85	3.46	14.77	11.83	14.77	11.83
VANO 1	14.63	19.00	589.95	430.65	1397.12	5.44	34.21	8.38	5900.00	0.0041	1.75	5.07	0.32	0.08	5900.00	0.0041	5.67	2.87	14.77	11.83	14.77	11.83
VANO 1	15.60	20.00	659.46	414.23	1354.41	65.20	38.24	9.37	5900.00	0.0041	1.68	5.53	3.78	0.93	5900.00	0.0041	5.50	3.21	14.77	11.83	14.77	11.83
VANO 1	15.60	21.00	659.46	414.23	1354.41	65.20	38.24	9.37	5900.00	0.0041	1.68	5.53	3.78	0.93	5900.00	0.0041	5.50	3.21	14.77	11.83	14.77	11.83
VANO 1	16.58	22.00	361.92	397.57	1313.56	135.56	20.99	5.14	5900.00	0.0041	1.61	3.38	7.86	1.93	5900.00	0.0041	5.33	3.63	14.77	11.83	14.77	11.83
VANO 1	17.55	23.00	446.47	409.06	1274.57	205.94	25.89	6.34	5900.00	0.0041	1.66	4.00	11.94	2.93	5900.00	0.0041	5.17	4.05	14.77	11.83	14.77	11.83
VANO 1	18.53	24.00	381.57	402.28	1237.43	276.35	22.13	5.42	5900.00	0.0041	1.63	3.53	16.03	3.93	5900.00	0.0041	5.02	4.47	14.77	11.83	14.77	11.83
VANO 1	19.50	25.00	319.75	426.88	1202.15	346.77	18.54	4.54	5900.00	0.0041	1.73	3.14	20.11	4.93	5900.00	0.0041	4.88	4.90	14.77	11.83	14.77	11.83
VANO 1	19.50	26.00	319.75	426.88	1202.15	346.77	18.54	4.54	5900.00	0.0041	1.73	3.14	20.11	4.93	5900.00	0.0041	4.88	4.90	14.77	11.83	14.77	11.83
VANO 1	20.48	27.00	362.87	328.54	1168.72	417.20	21.04	5.16	5900.00	0.0041	1.33	3.24	24.20	5.93	5900.00	0.0041	4.74	5.34	14.77	11.83	14.77	11.83
VANO 1	21.45	28.00	438.44	310.68	1137.15	487.65	25.43	6.23	5900.00	0.0041	1.26	3.75	28.28	6.93	5900.00	0.0041	4.62	5.77	14.77	11.83	14.77	11.83
VANO 1	22.43	29.00	514.94	292.59	1107.43	558.11	29.86	7.32	5900.00	0.0041	1.19	4.25	32.37	7.93	5900.00	0.0041	4.50	6.21	14.77	11.83	14.77	11.83
VANO 1	23.40	30.00	592.37	282.16	1079.57	628.58	34.35	8.42	5900.00	0.0041	1.15	4.78	36.45	8.93	5900.00	0.0041	4.38	6.66	14.77	11.83	14.77	11.83
VANO 1	23.40	31.00	592.37	282.16	1079.57	628.58	34.35	8.42	5900.00	0.0041	1.15	4.78	36.45	8.93	5900.00	0.0041	4.38	6.66	14.77	11.83	14.77	11.83
VANO 1	24.38	32.00	670.70	273.91	1053.57	699.06	38.90	9.53	5900.00	0.0041	1.11	5.32	40.54	9.93	5900.00	0.0041	4.28	7.10	14.77	11.83	14.77	11.83
VANO 1	25.35	33.00	749.92	265.66	1029.42	769.54	43.49	10.66	5900.00	0.0041	1.08	5.87	44.63	10.93	5900.00	0.0041	4.18	7.56	14.77	11.83	14.77	11.83
VANO 1	26.33	34.00	830.00	257.41	1007.12	840.03	48.14	11.79	5900.00	0.0041	1.04	6.42	48.72	11.94	5900.00	0.0041	4.09	8.01	14.77	11.83	14.77	11.83
VANO 1	27.30	35.00	910.92	249.16	986.63	910.52	52.83	12.94	5900.00	0.0041	1.01	6.98	52.81	12.94	5900.00	0.0041	4.01	8.47	14.77	11.83	14.77	11.83
VANO 1	27.30	36.00	910.92	249.16	986.63	910.52	52.83	12.94	5900.00	0.0041	1.01	6.98	52.81	12.94	5900.00	0.0041	4.01	8.47	14.77	11.83	14.77	11.83
VANO 1	28.28	37.00	992.65	240.91	974.77	953.33	57.57	14.10	5900.00	0.0041	0.98	7.54	55.29	13.55	5900.00	0.0041	3.96	8.75	14.77	11.83	14.77	11.83
VANO 1	29.25	38.00	1075.18	232.66	973.55	1020.65	62.35	15.28	5900.00	0.0041	0.94	8.11	59.19	14.50	5900.00	0.0041	3.95	9.23	14.77	11.83	14.77	11.83
VANO 1	30.23	39.00	1158.47	224.41	975.27	1087.46	67.18	16.46	5900.00	0.0041	0.91	8.69	63.07	15.45	5900.00	0.0041	3.96	9.71	14.77	11.83	14.77	11.83
VANO 1	31.20	40.00	1242.36	216.16	977.69	1153.74	72.05	17.65	5900.00	0.0041	0.88	9.26	66.91	16.39	5900.00	0.0041	3.97	10.18	14.77	11.83	14.77	11.83
VANO 1	31.20	41.00	1242.36	216.16	977.69	1153.74	72.05	17.65	5900.00	0.0041	0.88	9.26	66.91	16.39	5900.00	0.0041	3.97	10.18	14.77	11.83	14.77	11.83
VANO 1	32.18	42.00	1326.76	207.91	980.83	1219.50	76.94	18.85	5900.00	0.0041	0.84	9.85	70.72	17.33	5900.00	0.0041	3.98	10.65	14.77	11.83	14.77	11.83
VANO 1	33.15	43.00	1411.64	199.66	985.29	1285.17	81.87	20.06	5900.00	0.0041	0.81	10.43	74.53	18.26	5900.00	0.0041	4.00	11.13	14.77	11.83	14.77	11.83
VANO 1	34.13	44.00	1496.98	191.41	991.13	1350.97	86.82	21.27	5900.00	0.0041	0.78	11.02	78.35	19.20	5900.00	0.0041	4.02	11.61	14.77	11.83	14.77	11.83
VANO 1	35.10	45.00	1582.75	183.16	1029.22	1457.58	91.79	22.49	5900.00	0.0041	0.74	11.62	84.53	20.71	5900.00	0.0041	4.18	12.44	14.77	11.83	14.77	12.44
VANO 1	35.10	46.00	1582.75	183.16	1029.22	1457.58	91.79	22.49	5900.00	0.0041	0.74	11.62	84.53	20.71	5900.00	0.0041	4.18	12.44	14.77	11.83	14.77	12.44
VANO 1	36.08	47.00	1668.91	174.91	1074.81	1526.70	96.79	23.71	5900.00	0.0041	0.71	12.21	88.54	21.69	5900.00	0.0041	4.36	13.03	14.77	11.83	14.77	13.03
VANO 1	37.05	48.00	1755.45	173.02	1122.11	1595.71	101.81	24.94	5900.00	0.0041	0.70	12.82	92.54	22.67	5900.00	0.0041	4.55	13.61	14.77	11.83	14.77	13.61
VANO 1	38.03	49.00	1842.32	186.35	1171.06	1664.60	106.84	26.18	5900.00	0.0041	0.76	13.47	96.54	23.65	5900.00	0.0041	4.75	14.20	14.77	11.83	14.77	14.20
VANO 1	39.00	50.00	2221.04	199.87	1221.63	1733.38	128.81	31.56	5900.00	0.0041	0.81	16.18	100.53	24.63	5900.00	0.0041	4.96	14.79	14.77	11.83	16.18	16.13
VANO 2	0.00	1.00	2356.78	617.61	2013.43	1717.19	136.68	33.49	5900.00	0.0041	2.51	18.00	99.59	24.40	5900.00	0.0041	8.17	16.29	14.77	11.83	18.00	18.00
VANO 2	1.20	2.00	1841.70	590.63	1937.21	1632.96	106.81	26.17	5900.00	0.0041	2.40	14.28	94.70	23.20	5900.00	0.0041	7.86	15.53	14.77	11.83	15.53	15.53
VANO 2	2.40	3.00	1735.66	563.88	1862.99	1548.60	100.66	24.66	5900.00	0.0041	2.29	13.48	89.81	22.00	5900.00	0.0041	7.56	14.78	14.77	11.83	14.78	14.78
VANO 2	3.60	4.00	1630.21	537.37	1790.77	1464.10	94.54	23.16	5900.00	0.0041	2.18	12.67	84.91	20.80	5900.00	0.0041	7.27	14.04	14.77	11.83	14.77	14.04
VANO 2	4.80	5.00	1525.41	511.09	1720.55	1379.46	88.46	21.67	5900.00	0.0041	2.07	11.87	80.00	19.60	5900.00	0.0041	6.98	13.29	14.77	11.83	14.77	13.29
VANO 2	4.80	6.00	1525.41	511.09	1720.55	1379.46	88.46	21.67	5900.00	0.0041	2.07	11.87	80.00	19.60	5900.00	0.0041	6.98	13.29	14.77	11.83	14.77	13.29
VANO 2	6.00	7.00	1421.30	485.04	1652.31	1294.69	82.43	20.19	5900.00	0.0041	1.97	11.08	75.08	18.40	5900.00	0.0041	6.71	12.55	14.77	11.83	14.77	12.55
VANO 2	7.20	8.00	1317.95	459.23	1586.11	1209.80	76.43	18.73	5900.00	0.0041	1.86	10.30	70.16	17.19	5900.00	0.0041	6.44	11.81	14.77	11.83	14.77	11.83
VANO 2	8.40	9.00	1215.41	433.66	1521.81	1124.79	70.49	17.27	5900.00	0.0041	1.76	9.51	65.23	15.98	5900.00	0.0041	6.18	11.08	14.77	11.83	14.77	11.83
VANO 2	9.60	10.00	1113.72	408.32	1459.64	1039.67	64.59	15.82	5900.00	0.0041	1.66	8.74	60.29	14.77	5900.00	0.0041	5.93	10.35	14.77	11.83	14.77	11.83
VANO 2	9.60	11.00	1113.72	408.32	1459.64	1039.67	64.59	15.82	5900.00	0.0041	1.66	8.74	60.29	14.77	5900.00	0.0041	5.93	10.35	14.77	11.83	14.77	11.83
VANO 2	10.80	12.00	1012.94	383.22	1399.44	954.44	58.74	14.39	5900.00	0.0041	1.56	7.97	55.35	13.56	5900.00	0.0041	5.68	9.62	14.77	11.83	14.77	11.83
VANO 2	12.00	13.00	913.11	358.35	1341.21	869.10	52.96	12.97	5900.00	0.0041	1.45	7.21	50.40	12.35	5900.00	0.0041	5.44	8.90	14.77	11.83	14.77	11.83
VANO 2	13.20	14.00	814.27	333.72	1284.99	783.68	47.22	11.57	5900.00	0.0041	1.35	6.46	45.45	11.13	5900.00	0.0041	5.22	8.18	14.77	11.83	14.77	11.83
VANO 2	14.40	15.00	716.46	309.32	1230.76	698.16	41.55	10.18	5900.00	0.0041	1.26	5.72	40.49	9.92	5900.00	0.0041	5.00	7.46	14.77	11.83	14.77	11.83
VANO 2	14.40	16.00	699.51	309.32	1230.76	681.22	40.57	9.94	5900.00	0.0041	1.26	5.60	39.51	9.68	5900.00	0.0041	5.00	7.34	14.77	11.83	14.77	11.83
VANO 2	15.60	17.00	602.77	285.15	1178.53	595.63	34.96	8.56	5900.00	0.0041	1.16	4.86	34.54	8.46	5900.00	0.0041	4.78	6.62	14.77	11.83	14.77	11.83
VANO 2	16.80	18.00	507.13	261.23	1128.31	509.97	29.41	7.21	5900.00	0.0041	1.06	4.13	29.58	7.25	5900.00	0.0041	4.58	5.91	14.77	11.83	14.77	11.83
VANO 2	18.00	19.00	412.61	237.53	1080.09	424.25	23.93	5.86	5900.00	0.0041	0.96	3.41	24.60	6.03	5900.00	0.0041	4.38	5.21	14.77	11.83	14.77	11.83
VANO 2	19.20	20.00	455.14	82.80	1033.97	338.47	26.40	6.47	5900.00	0.0041	0.34	3.40	19.63	4.81	5900.00	0.0041	4.20	4.50	14.77	11.83	14.77	11.83
VANO 2	19.20	21.00	455.14	82.80	1033.97	338.47	26.40	6.47	5900.00	0.0041	0.34	3.40	19.63	4.81	5900.00	0.0041	4.20	4.50	14.77	11.83	14.77	11.83
VANO 2	20.40	22.00	535.31	72.81	990.07	252.66	31.04	7.61	5900.00	0.0041	0.30	3.95	14.65	3.59	5900.00	0.0041	4.02	3.80	14.77	11.83	14.77	11.83
VANO 2	21.60	23.00	617.24	62.83	948.37	166.81	35.80	8.77	5900.00	0.0041	0.26	4.51	9.67	2.37	5900.00	0.0041	3.85	3.11	14.77	11.83	14.77	11.83
VANO 2	22.80	24.00	700.51	52.85	908.90	80.94	40.63	9.95	5900.00	0.0041	0.21	5.08	4.69	1.15	5900.00	0.0041	3.69	2.42	14.77	11.83	14.77	11.83
VANO 2	24.00	25.00	376.61	47.91	871.63	6.27	21.84	5.35	5900.00	0.0041	0.19	2.77	0.36	0.09	5900.00	0.0041	3.54	1.81	14.77	11.83	14.77	11.83
VANO 2	24.00	26.00	376.61	47.91	871.63	6.27	21.84	5.35	5900.00	0.0041	0.19	2.77	0.36	0.09	5900.00	0.0041	3.54	1.81	14.77	11.83	14.77	11.83
VANO 2	25.20	27.00	691.35	100.07	836.58	93.05	40.09	9.82	5900.00	0.0041	0.41	5.11	5.40	1.32	5900.00	0.0041	3.40	2.36	14.77	11.83	14.77	11.83
VANO 2	26.40	28.00	607.79	78.15	814.43	179.84	35.25	8.64	5900.00	0.0041	0.32	4.48	10.43	2.56	5900.00	0.0041	3.31	2.93	14.77	11.83	14.77	11.83
VANO 2	27.60	29.00	525.56	56.53	845.33	263.89	30.48	7.47	5900.00	0.0041	0.23	3.85	15.30	3.75	5900.00	0.0041	3.43	3.59	14.77	11.83	14.77	11.83
VANO 2	28.80	30.00	446.03	67.00	880.25	349.73	25.87	6.34	5900.00	0.0041	0.27	3.30	20.28	4.97	5900.00	0.0041	3.57	4.27	14.77	11.83	14.77	11.83
VANO 2	28.80	31.00	446.03	67.00	880.25	349.73	25.87	6.34	5900.00	0.0041	0.27	3.30	20.28	4.97	5900.00	0.0041	3.57	4.27	14.77	11.83	14.77	11.83
VANO 2	30.00	32.00	420.06	120.77	922.28	435.54	24.36	5.97	5900.00	0.0041	0.49	3.23	25.26	6.19	5900.00	0.0041	3.74	4.97	14.77	11.83	14.77	11.83
VANO 2	31.20	33.00	514.30	143.84	969.12	521.30	29.83	7.31	5900.00	0.0041	0.58	3.95	30.23	7.41	5900.00	0.0041	3.93	5.67	14.77	11.83	14.77	11.83
VANO 2	32.40	34.00	609.68	167.69	1018.51	607.01	35.36	8.66	5900.00	0.0041	0.68	4.67	35.20	8.62	5900.00	0.0041	4.13	6.38	14.77	11.83	14.77	11.83
VANO 2	33.60	35.00	706.18	191.77	1069.92	692.65	40.95	10.03	5900.00	0.0041	0.78	5.41	40.17	9.84	5900.00	0.0041	4.34	7.09	14.77	11.83	14.77	11.83
VANO 2	33.60	36.00	706.18	191.77	1069.92	692.65	40.95	10.03	5900.00	0.0041	0.78	5.41	40.17	9.84	5900.00	0.0041	4.34	7.09	14.77	11.83	14.77	11.83
VANO 2	34.80	37.00	803.77	216.09	1123.32	778.23	46.61	11.42	5900.00	0.0041	0.88	6.15	45.13	11.06	5900.00	0.0041	4.56	7.81	14.77	11.83	14.77	11.83
VANO 2	36.00	38.00	902.40	240.65	1178.74	863.72	52.33	12.82	5900.00	0.0041	0.98	6.90	50.09	12.27	5900.00	0.0041	4.78	8.53	14.77	11.83	14.77	11.83
VANO 2	37.20	39.00	1002.05	265.44	1236.16	949.13	58.11	14.24	5900.00	0.0041	1.08	7.66	55.04	13.49	5900.00	0.0041	5.02	9.25	14.77	11.83	14.77	11.83
VANO 2	38.40	40.00	1102.66	290.46	1295.58	1034.45	63.95	15.67	5900.00	0.0041	1.18	8.42	59.99	14.70	5900.00	0.0041	5.26	9.98	14.77	11.83	14.77	11.83
VANO 2	38.40	41.00	1102.66	290.46	1295.58	1034.45	63.95	15.67	5900.00	0.0041	1.18	8.42	59.99	14.70	5900.00	0.0041	5.26	9.98	14.77	11.83	14.77	11.83
VANO 2	39.60	42.00	1204.20	315.73	1357.02	1119.66	69.84	17.11	5900.00	0.0041	1.28	9.20	64.93	15.91	5900.00	0.0041	5.51	10.71	14.77	11.83	14.77	11.83
VANO 2	40.80	43.00	1306.63	341.22	1420.46	1204.77	75.78	18.57	5900.00	0.0041	1.39	9.98	69.87	17.12	5900.00	0.0041	5.77	11.44	14.77	11.83	14.77	11.83
VANO 2	42.00	44.00	1409.89	366.95	1485.91	1289.76	81.77	20.03	5900.00	0.0041	1.49	10.76	74.80	18.33	5900.00	0.0041	6.03	12.18	14.77	11.83	14.77	12.18
VANO 2	43.20	45.00	1513.93	392.92	1553.36	1374.64	87.80	21.51	5900.00	0.0041	1.59	11.55	79.72	19.53	5900.00	0.0041	6.31	12.92	14.77	11.83	14.77	12.92
VANO 2	43.20	46.00	1513.93	392.92	1553.36	1374.64	87.80	21.51	5900.00	0.0041	1.59	11.55	79.72	19.53	5900.00	0.0041	6.31	12.92	14.77	11.83	14.77	12.92
VANO 2	44.40	47.00	1618.70	419.12	1622.82	1459.39	93.88	23.00	5900.00	0.0041	1.70	12.35	84.64	20.74	5900.00	0.0041	6.59	13.66	14.77	11.83	14.77	13.66
VANO 2	45.60	48.00	1724.14	445.56	1694.25	1544.02	99.99	24.50	5900.00	0.0041	1.81	13.15	89.54	21.94	5900.00	0.0041	6.88	14.41	14.77	11.83	14.77	14.41
VANO 2	46.80	49.00	1830.20	472.23	1767.76	1628.52	106.14	26.00	5900.00	0.0041	1.92	13.96	94.44	23.14	5900.00	0.0041	7.18	15.16	14.77	11.83	15.16	15.16

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC COV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR EN ZONA CENTRAL

CARACT. RASANTE		CARACTERISTICAS TORSOR			
M est (S6)=	1.16	fyd armad =	40816.3	Ae =	20.67
Inercia XX =	20.0	fck (t/m2) =	4081.6	he =	0.25
fyd cercos =	40816	fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1	cotg tetha =	1.46	Ap=	0.0342
K rasant =	0.058	Beta comp=	1.44	K tors Tu3 =	1.526
Canto sec=	0.33	K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

			Hipótesis max cortante		Hipótesis max torsor		ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC					ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC						ARMADO DEFINITIV			
							Dos caras					Dos caras						FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	Una cara As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	Una cara As (Rd+Td)	As ext	As int	As ext	As int
VANO 3	0.00	1.00	2355.00	466.74	1897.96	1696.24	136.58	33.46	5900.00	0.0041	1.89	17.68	98.37	24.10	5900.00	0.0041	7.70	15.90	14.77	11.83	17.68	17.68
VANO 3	1.20	2.00	1839.90	440.21	1823.19	1611.91	106.70	26.14	5900.00	0.0041	1.79	13.96	93.48	22.90	5900.00	0.0041	7.40	15.15	14.77	11.83	15.15	15.15
VANO 3	2.40	3.00	1733.86	413.92	1751.32	1527.45	100.55	24.64	5900.00	0.0041	1.68	13.16	88.58	21.70	5900.00	0.0041	7.11	14.41	14.77	11.83	14.77	14.41
VANO 3	3.60	4.00	1628.42	387.86	1680.02	1442.85	94.44	23.14	5900.00	0.0041	1.57	12.36	83.68	20.50	5900.00	0.0041	6.82	13.66	14.77	11.83	14.77	13.66
VANO 3	4.80	5.00	1523.64	362.04	1612.91	1358.13	88.36	21.65	5900.00	0.0041	1.47	11.56	78.76	19.30	5900.00	0.0041	6.54	12.92	14.77	11.83	14.77	12.92
VANO 3	4.80	6.00	1523.64	362.04	1612.91	1358.13	88.36	21.65	5900.00	0.0041	1.47	11.56	78.76	19.30	5900.00	0.0041	6.54	12.92	14.77	11.83	14.77	12.92
VANO 3	6.00	7.00	1419.57	336.45	1545.49	1273.28	82.33	20.17	5900.00	0.0041	1.37	10.77	73.84	18.09	5900.00	0.0041	6.27	12.18	14.77	11.83	14.77	12.18
VANO 3	7.20	8.00	1316.27	311.09	1480.35	1188.31	76.34	18.70	5900.00	0.0041	1.26	9.98	68.92	16.88	5900.00	0.0041	6.01	11.45	14.77	11.83	14.77	11.83
VANO 3	8.40	9.00	1213.78	286.83	1419.76	1103.23	70.39	17.25	5900.00	0.0041	1.16	9.21	63.98	15.68	5900.00	0.0041	5.76	10.72	14.77	11.83	14.77	11.83
VANO 3	9.60	10.00	1112.16	264.36	1361.11	1018.04	64.50	15.80	5900.00	0.0041	1.07	8.44	59.04	14.47	5900.00	0.0041	5.53	10.00	14.77	11.83	14.77	11.83
VANO 3	9.60	11.00	1112.16	264.36	1361.11	1018.04	64.50	15.80	5900.00	0.0041	1.07	8.44	59.04	14.47	5900.00	0.0041	5.53	10.00	14.77	11.83	14.77	11.83
VANO 3	10.80	12.00	1011.44	242.12	1304.15	932.75	58.66	14.37	5900.00	0.0041	0.98	7.68	54.09	13.25	5900.00	0.0041	5.30	9.28	14.77	11.83	14.77	11.83
VANO 3	12.00	13.00	911.67	220.11	1250.17	847.37	52.87	12.95	5900.00	0.0041	0.89	6.92	49.14	12.04	5900.00	0.0041	5.08	8.56	14.77	11.83	14.77	11.83
VANO 3	13.20	14.00	812.90	198.34	1198.38	761.89	47.14	11.55	5900.00	0.0041	0.81	6.18	44.19	10.83	5900.00	0.0041	4.87	7.85	14.77	11.83	14.77	11.83
VANO 3	14.40	15.00	715.16	176.80	1148.17	676.33	41.48	10.16	5900.00	0.0041	0.72	5.44	39.22	9.61	5900.00	0.0041	4.66	7.14	14.77	11.83	14.77	11.83
VANO 3	14.40	16.00	698.21	176.80	1148.17	659.38	40.49	9.92	5900.00	0.0041	0.72	5.32	38.24	9.37	5900.00	0.0041	4.66	7.02	14.77	11.83	14.77	11.83
VANO 3	15.60	17.00	601.53	155.99	1100.64	573.75	34.89	8.55	5900.00	0.0041	0.63	4.59	33.27	8.15	5900.00	0.0041	4.47	6.31	14.77	11.83	14.77	11.83
VANO 3	16.80	18.00	505.95	135.80	1055.29	488.05	29.34	7.19	5900.00	0.0041	0.55	3.87	28.30	6.93	5900.00	0.0041	4.28	5.61	14.77	11.83	14.77	11.83
VANO 3	18.00	19.00	428.34	25.29	1011.93	402.29	24.84	6.09	5900.00	0.0041	0.10	3.09	23.33	5.72	5900.00	0.0041	4.11	4.91	14.77	11.83	14.77	11.83
VANO 3	19.20	20.00	507.44	58.74	974.31	316.48	29.43	7.21	5900.00	0.0041	0.24	3.72	18.35	4.50	5900.00	0.0041	3.95	4.23	14.77	11.83	14.77	11.83
VANO 3	19.20	21.00	507.44	58.74	974.31	316.48	29.43	7.21	5900.00	0.0041	0.24	3.72	18.35	4.50	5900.00	0.0041	3.95	4.23	14.77	11.83	14.77	11.83
VANO 3	20.40	22.00	588.12	79.95	941.67	230.63	34.11	8.36	5900.00	0.0041	0.32	4.34	13.38	3.28	5900.00	0.0041	3.82	3.55	14.77	11.83	14.77	11.83
VANO 3	21.60	23.00	670.11	101.44	924.41	146.30	38.86	9.52	5900.00	0.0041	0.41	4.97	8.48	2.08	5900.00	0.0041	3.75	2.92	14.77	11.83	14.77	11.83
VANO 3	22.80	24.00	753.43	123.22	943.42	59.50	43.69	10.71	5900.00	0.0041	0.50	5.60	3.45	0.85	5900.00	0.0041	3.83	2.34	14.77	11.83	14.77	11.83
VANO 3	24.00	25.00	430.06	145.28	978.99	32.06	24.94	6.11	5900.00	0.0041	0.59	3.35	1.86	0.46	5900.00	0.0041	3.97	2.21	14.77	11.83	14.77	11.83
VANO 3	24.00	26.00	430.06	145.28	978.99	32.06	24.94	6.11	5900.00	0.0041	0.59	3.35	1.86	0.46	5900.00	0.0041	3.97	2.21	14.77	11.83	14.77	11.83
VANO 3	25.20	27.00	691.04	83.74	1015.56	117.97	40.08	9.82	5900.00	0.0041	0.34	5.08	6.84	1.68	5900.00	0.0041	4.12	2.90	14.77	11.83	14.77	11.83
VANO 3	26.40	28.00	607.51	93.48	1055.74	203.88	35.23	8.63	5900.00	0.0041	0.38	4.51	11.82	2.90	5900.00	0.0041	4.28	3.59	14.77	11.83	14.77	11.83
VANO 3	27.60	29.00	525.32	103.23	1096.91	289.78	30.47	7.46	5900.00	0.0041	0.42	3.94	16.81	4.12	5900.00	0.0041	4.45	4.28	14.77	11.83	14.77	11.83
VANO 3	28.80	30.00	444.44	112.97	1140.18	375.65	25.78	6.31	5900.00	0.0041	0.46	3.39	21.79	5.34	5900.00	0.0041	4.63	4.98	14.77	11.83	14.77	11.83
VANO 3	28.80	31.00	444.44	112.97	1140.18	375.65	25.78	6.31	5900.00	0.0041	0.46	3.39	21.79	5.34	5900.00	0.0041	4.63	4.98	14.77	11.83	14.77	11.83
VANO 3	30.00	32.00	473.68	259.78	1187.65	461.48	27.47	6.73	5900.00	0.0041	1.05	3.89	26.76	6.56	5900.00	0.0041	4.82	5.69	14.77	11.83	14.77	11.83
VANO 3	31.20	33.00	567.95	283.28	1235.22	547.27	32.94	8.07	5900.00	0.0041	1.15	4.61	31.74	7.78	5900.00	0.0041	5.01	6.40	14.77	11.83	14.77	11.83
VANO 3	32.40	34.00	663.35	307.02	1285.17	633.01	38.47	9.43	5900.00	0.0041	1.25	5.34	36.71	8.99	5900.00	0.0041	5.22	7.11	14.77	11.83	14.77	11.83
VANO 3	33.60	35.00	759.86	330.99	1337.10	718.69	44.07	10.80	5900.00	0.0041	1.34	6.07	41.68	10.21	5900.00	0.0041	5.43	7.82	14.77	11.83	14.77	11.83
VANO 3	33.60	36.00	759.86	330.99	1337.10	718.69	44.07	10.80	5900.00	0.0041	1.34	6.07	41.68	10.21	5900.00	0.0041	5.43	7.82	14.77	11.83	14.77	11.83
VANO 3	34.80	37.00	857.46	355.19	1392.03	804.29	49.73	12.18	5900.00	0.0041	1.44	6.81	46.64	11.43	5900.00	0.0041	5.65	8.54	14.77	11.83	14.77	11.83
VANO 3	36.00	38.00	956.09	379.62	1448.24	889.82	55.45	13.58	5900.00	0.0041	1.54	7.56	51.60	12.64	5900.00	0.0041	5.88	9.26	14.77	11.83	14.77	11.83
VANO 3	37.20	39.00	1055.74	404.29	1506.44	975.27	61.23	15.00	5900.00	0.0041	1.64	8.32	56.56	13.86	5900.00	0.0041	6.11	9.99	14.77	11.83	14.77	11.83
VANO 3	38.40	40.00	1156.36	429.19	1566.63	1060.62	67.06	16.43	5900.00	0.0041	1.74	9.09	61.51	15.07	5900.00	0.0041	6.36	10.71	14.77	11.83	14.77	11.83
VANO 3	38.40	41.00	1156.36	429.19	1566.63	1060.62	67.06	16.43	5900.00	0.0041	1.74	9.09	61.51	15.07	5900.00	0.0041	6.36	10.71	14.77	11.83	14.77	11.83
VANO 3	39.60	42.00	1257.90	454.32	1628.10	1145.87	72.95	17.87	5900.00	0.0041	1.84	9.86	66.45	16.28	5900.00	0.0041	6.61	11.45	14.77	11.83	14.77	11.83
VANO 3	40.80	43.00	1360.33	479.69	1692.16	1231.02	78.89	19.33	5900.00	0.0041	1.95	10.64	71.39	17.49	5900.00	0.0041	6.87	12.18	14.77	11.83	14.77	12.18
VANO 3	42.00	44.00	1463.60	505.28	1759.11	1316.05	84.88	20.80	5900.00	0.0041	2.05	11.42	76.32	18.70	5900.00	0.0041	7.14	12.92	14.77	11.83	14.77	12.92
VANO 3	43.20	45.00	1567.65	531.11	1827.74	1400.98	90.91	22.27	5900.00	0.0041	2.16	12.22	81.25	19.91	5900.00	0.0041	7.42	13.66	14.77	11.83	14.77	13.66
VANO 3	43.20	46.00	1567.65	531.11	1827.74	1400.98	90.91	22.27	5900.00	0.0041	2.16	12.22	81.25	19.91	5900.00	0.0041	7.42	13.66	14.77	11.83	14.77	13.66
VANO 3	44.40	47.00	1672.44	557.17	1897.37	1485.78	96.99	23.76	5900.00	0.0041	2.26	13.01	86.17	21.11	5900.00	0.0041	7.70	14.41	14.77	11.83	14.77	14.41
VANO 3	45.60	48.00	1777.91	583.47	1969.48	1570.45	103.11	25.26	5900.00	0.0041	2.37	13.82	91.08	22.31	5900.00	0.0041	7.99	15.15	14.77	11.83	15.15	15.15
VANO 3	46.80	49.00	1884.01	609.99	2043.57	1655.00	109.26	26.77	5900.00	0.0041	2.48	14.62	95.98	23.52	5900.00	0.0041	8.30	15.91	14.77	11.83	15.91	15.91
VANO 3	48.00	50.00	2399.20	636.75	2119.68	1739.41	139.14	34.09	5900.00	0.0041	2.58	18.34	100.88	24.71	5900.00	0.0041	8.60	16.66	14.77	11.83	18.34	18.34
VANO 4	0.00	1.00	2490.73	631.03	2164.57	1815.11	144.45	35.39	5900.00	0.0041	2.56	18.98	105.27	25.79	5900.00	0.0041	8.79	17.29	14.77	11.83	18.98	18.98
VANO 4	1.20	2.00	1995.10	602.55	2083.52	1725.71	115.70	28.35	5900.00	0.0041	2.45	15.40	100.08	24.52	5900.00	0.0041	8.46	16.49	14.77	11.83	16.49	16.49
VANO 4	2.55	3.00	1882.70	574.32	2005.01	1638.17	109.19	26.75	5900.00	0.0041	2.33	14.54	94.89	23.25	5900.00	0.0041	8.14	15.69	14.77	11.83	15.69	15.69
VANO 4	3.83	4.00	1770.91	546.34	1928.23	1546.49	102.70	25.16	5900.00	0.0041	2.22	13.69	89.69	21.97	5900.00	0.0041	7.83	14.90	14.77	11.83	14.90	14.90
VANO 4	5.10	5.00	1659.81	518.61	1853.60	1456.67	96.26	23.58	5900.00	0.0041	2.11	12.84	84.48	20.70	5900.00	0.0041	7.52	14.11	14.77	11.83	14.77	14.11
VANO 4	5.10	6.00	1659.81	518.61	1853.60	1456.67	96.26	23.58	5900.00	0.0041	2.11	12.84	84.48	20.70	5900.00	0.0041	7.52	14.11	14.77	11.83	14.77	14.11
VANO 4	6.38	7.00	1549.46	491.13	1781.10	1366.72	89.86	22.02	5900.00	0.0041	1.99	12.00	79.26	19.42	5900.00	0.0041	7.23	13.32	14.77	11.83	14.77	13.32
VANO 4	7.65	8.00	1439.90	463.93	1710.75	1276.63	83.51	20.46	5900.00	0.0041	1.88	11.17	74.04	18.14	5900.00	0.0041	6.94	12.54	14.77	11.83	14.77	12.54
VANO 4	8.93	9.00	1331.20	437.02	1642.60	1186.42	77.20	18.91	5900.00	0.0041	1.77	10.34	68.81	16.86	5900.00	0.0041	6.67	11.76	14.77	11.83	14.77	11.83
VANO 4	10.20	10.00	1223.40	410.37	1576.59	1096.09	70.95	17.38	5900.00	0.0041	1.67	9.52	63.57	15.57	5900.00	0.0041	6.40	10.99	14.77	11.83	14.77	11.83
VANO 4	10.20	11.00	1223.40	410.37	1576.59	1096.09	70.95	17.38	5900.00	0.0041	1.67	9.52	63.57	15.57	5900.00	0.0041	6.40	10.99	14.77	11.83	14.77	11.83
VANO 4	11.48	12.00	1116.56	383.97	1512.72	1005.65	64.75	15.86	5900.00	0.0041	1.56	8.71	58.32	14.29	5900.00	0.0041	6.14	10.21	14.77	11.83	14.77	11.83
VANO 4	12.75	13.00	1010.73	357.82	1450.93	915.10	58.62	14.36	5900.00	0.0041	1.45	7.91	53.07	13.00	5900.00	0.0041	5.89	9.45	14.77	11.83	14.77	11.83
VANO 4	14.03	14.00	905.94	331.92	1391.38	824.45	52.54	12.87	5900.00	0.0041	1.35	7.11	47.81	11.71	5900.00	0.0041	5.65	8.68	14.77	11.83	14.77	11.83
VANO 4	15.30	15.00	802.23	306.27	1333.92	733.71	46.52	11.40	5900.00	0.0041	1.24	6.32	42.55	10.43	5900.00	0.0041	5.41	7.92	14.77	11.83	14.77	11.83
VANO 4	15.30	16.00	785.29	306.27	1333.92	716.77	45.54	11.16	5900.00	0.0041	1.24	6.20	41.57	10.18	5900.00	0.0041	5.41	7.80	14.77	11.83	14.77	11.83
VANO 4	16.58	17.00	682.71	280.87	1278.59	625.95	39.59	9.70	5900.00	0.0041	1.14	5.42	36.30	8.89	5900.00	0.0041	5.19	7.04	14.77	11.83	14.77	11.83
VANO 4	17.85	18.00	581.29	255.72	1225.41	535.05	33.71	8.26	5900.00	0.0041	1.04	4.65	31.03	7.60	5900.00	0.0041	4.97	6.29	14.77	11.83	14.77	11.83
VANO 4	19.13	19.00	481.07	230.81	1174.33	444.08	27.90	6.84	5900.00	0.0041	0.94	3.89	25.75	6.31	5900.00	0.0041	4.77	5.54	14.77	11.83	14.77	11.83
VANO 4	20.40	20.00	455.81	79.65	1125.44	353.07	26.43	6.48	5900.00	0.0041	0.32	3.40	20.48	5.02	5900.00	0.0041	4.57	4.79	14.77	11.83	14.77	11.83
VANO 4	20.40	21.00	455.81	79.65	1125.44	353.07	26.43	6.48	5900.00	0.0041	0.32	3.40	20.48	5.02	5900.00	0.0041	4.57	4.79	14.77	11.83	14.77	11.83
VANO 4	21.68	22.00	541.45	69.27	1078.73	262.00	31.40	7.69	5900.00	0.0041	0.28	3.99	15.19	3.72	5900.00	0.0041	4.38	4.05	14.77	11.83	14.77	11.83
VANO 4	22.95	23.00	628.50	58.90	1034.33	170.90	36.45	8.93	5900.00	0.0041	0.24	4.58	9.91	2.43	5900.00	0.0041	4.20	3.31	14.77	11.83	14.77	11.83
VANO 4	24.23	24.00	716.97	48.52	992.23	79.78	41.58	10.19	5900.00	0.0041	0.20	5.19	4.63	1.13	5900.00	0.0041	4.03	2.58	14.77	11.83	14.77	11.83
VANO 4	25.50	25.00	424.70	60.28	952.53	28.92	24.63	6.03	5900.00	0.0041	0.24	3.14	1.68	0.41	5900.00	0.0041	3.87	2.14	14.77	11.83	14.77	11.83
VANO 4	25.50	26.00	424.70	60.28	952.53	28.92	24.63	6.03	5900.00	0.0041	0.24	3.14	1.68	0.41	5900.00	0.0041	3.87	2.14	14.77	11.83	14.77	11.83
VANO 4	26.78	27.00	675.10	86.26	923.33	121.02	39.15	9.59	5900.00	0.0041	0.35	4.97	7.02	1.72	5900.00	0.0041	3.75	2.73	14.77	11.83	14.77	11.83
VANO 4	28.05	28.00	586.33	63.24	952.41	210.95	34.00	8.33	5900.00	0.0041	0.26	4.29	12.23	3.00	5900.00	0.0041	3.87	3.43	14.77	11.83	14.77	11.83
VANO 4	29.33	29.00	498.98	41.39	992.63	302.06	28.94	7.09	5900.00	0.0041	0.17	3.63	17.52	4.29	5900.00	0.0041	4.03	4.16	14.77	11.83	14.77	11.83
VANO 4	30.60	30.00	423.44	133.99	1035.31	393.15	24.56	6.02	5900.00	0.0041	0.54	3.28	22.80	5.59	5900.00	0.0041	4.20	4.89	14.77	11.83	14.77	11.83
VANO 4	30.60	31.00	423.44	133.99	1035.31	393.15	24.56	6.02	5900.00	0.0041	0.54	3.28	22.80	5.59	5900.00	0.0041	4.20	4.89	14.77	11.83	14.77	11.83
VANO 4	31.88	32.00	522.17	158.28	1082.51	484.19	30.28	7.42	5900.00	0.0041	0.64	4.03	28.08	6.88	5900.00	0.0041	4.39	5.64	14.77	11.83	14.77	11.83
VANO 4	33.15	33.00	622.13	183.11	1132.13	575.18	36.08	8.84	5900.00	0.0041	0.74	4.79	33.36	8.17	5900.00	0.0041	4.60	6.38	14.77	11.83	14.77	11.83
VANO 4	34.43	34.00	723.29	208.18	1183.87	666.12	41.95	10.28	5900.00	0.0041	0.85	5.56	38.63	9.46	5900.00	0.0041	4.81	7.14	14.77	11.83	14.77	11.83
VANO 4	35.70	35.00	825.63	233.51	1237.76	756.98	47.88	11.73	5900.00	0.0041	0.95	6.34	43.90	10.76	5900.00	0.0041	5.02	7.89	14.77	11.83	14.77	11.83
VANO 4	35.70	36.00	825.63	233.51	1237.76	756.98	47.88	11.73	5900.00	0.0041	0.95	6.34	43.90	10.76	5900.00	0.0041	5.02	7.89	14.77	11.83	14.77	11.83
VANO 4	36.98	37.00	929.11	259.09	1293.7	847.76	53.88	13.20	5900.00	0.0041	1.05	7.13	49.17	12.05	5900.00	0.0041	5.25	8.65	14.77	11.83	14.77	11.83
VANO 4	38.25	38.00	1033.69	284.92	1351.95	938.46	59.95	14.69	5900.00	0.0041	1.16	7.92	54.43	13.33	5900.00	0.0041	5.49	9.41	14.77	11.83	14.77	11.83
VANO 4	39.53	39.00	1139.33	310.99	1412.22	1029.06	66.07	16.19	5900.00	0.0041	1.26	8.73	59.68	14.62	5900.00	0.0041	5.73	10.18	14.77	11.83	14.77	11.83
VANO 4	40.80	40.00	1246.00	337.32	1474.64	1119.57	72.26	17.70	5900.00	0.0041	1.37	9.54	64.93	15.91	5900.00	0.0041	5.99	10.95	14.77	11.83	14.77	11.83
VANO 4	40.80	41.00	1246.00	337.32	1474.64	1119.57	72.26	17.70	5900.00	0.0041	1.37	9.54	64.93	15.91	5900.00	0.0041	5.99	10.95	14.77	11.83	14.77	11.83
VANO 4	42.08	42.00	1353.64	363.90	1539.20	1209.96	78.50	19.23	5900.00	0.0041	1.48	10.36	70.17	17.19	5900.00	0.0041	6.25	11.72	14.77	11.83	14.77	12.50
VANO 4	43.35	43.00	1462.20	390.73	1605.85	1300.23	84.80	20.78	5900.00	0.0041	1.59	11.18	75.41	18.47	5900.00	0.0041	6.52	12.50	14.77	11.83	14.77	13.26
VANO 4	44.63	44.00	1559.90	417.80	1674.72	1388.72	90.47	22.16	5900.00	0.0041	1.70	11.93	80.54	19.73	5900.00	0.0041	6.80	13.26	14.77	11.83	14.77	14.05
VANO 4	45.90	45.00	1664.60	445.13	1745.68	1478.75	96.54	23.65	5900.00	0.0041	1.81	12.73	85.76	21.01	5900.00	0.0041	7.09	14.05	14.77	11.83	14.77	14.05
VANO 4	45.90	46.00	1664.60	445.13	1745.68	1478.75	96.54	23.65	5900.00	0.0041	1.81	12.73	85.76	21.01	5900.00	0.0041	7.09	14.05	14.77	11.83	14.77	14.05
VANO 4	47.18	47.00	1775.63	472.71	1818.78	1568.65	102.98	25.23	5900.00	0.0041	1.92	13.57	90.97	22.29	5900.00	0.0041	7.38	14.84	14.77	11.83	14.84	14.84
VANO 4	48.45	48.00	1887.37	500.54	1894.00	1658.41	109.48	26.82	5900.00	0.0041	2.03	14.42	96.18	23.56	5900.00	0.0041	7.69	15.63	14.77	11.83	15.63	15.63
VANO 4	49.73	49.00	1999.76	528.62	1971.30	1748.03	115.97	28.41	5900.00	0.0041	2.15	15.28	101.38	24.84	5900.00	0.0041	8.00	16.42	14.77	11.83	16.42	16.42

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	4	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR EN ZONA CENTRAL

CARACT. RASANTE

M est (S6)=	1.16
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.058
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC | **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** | **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 5	0.00	1.00	2471.64	701.27	2252.11	1844.60	143.34	35.12	5900.00	0.0041	2.85	18.98	106.98	26.21	5900.00	0.0041	9.14	17.68	14.77	11.83	18.98	18.98
VANO 5	1.28	2.00	1976.01	672.69	2172.25	1755.13	114.60	28.08	5900.00	0.0041	2.73	15.40	101.79	24.94	5900.00	0.0041	8.82	16.88	14.77	11.83	16.88	16.88
VANO 5	2.55	3.00	1863.62	644.35	2093.51	1665.51	108.08	26.48	5900.00	0.0041	2.62	14.55	96.59	23.66	5900.00	0.0041	8.50	16.08	14.77	11.83	16.08	16.08
VANO 5	3.83	4.00	1762.93	616.27	2017.19	1575.76	102.24	25.05	5900.00	0.0041	2.50	13.78	91.38	22.39	5900.00	0.0041	8.19	15.29	14.77	11.83	15.29	15.29
VANO 5	5.10	5.00	1665.21	588.45	1943.60	1485.86	96.57	23.66	5900.00	0.0041	2.39	13.02	86.17	21.11	5900.00	0.0041	7.89	14.50	14.77	11.83	14.77	14.50
VANO 5	5.10	6.00	1665.21	588.45	1943.60	1485.86	96.57	23.66	5900.00	0.0041	2.39	13.02	86.17	21.11	5900.00	0.0041	7.89	14.50	14.77	11.83	14.77	14.50
VANO 5	6.38	7.00	1568.26	560.93	1871.09	1395.84	90.95	22.28	5900.00	0.0041	2.28	12.28	80.95	19.83	5900.00	0.0041	7.60	13.72	14.77	11.83	14.77	13.72
VANO 5	7.65	8.00	1470.56	533.67	1801.50	1307.36	85.28	20.89	5900.00	0.0041	2.17	11.53	75.82	18.58	5900.00	0.0041	7.31	12.95	14.77	11.83	14.77	12.95
VANO 5	8.93	9.00	1361.99	506.65	1734.23	1217.08	78.99	19.35	5900.00	0.0041	2.06	10.70	70.58	17.29	5900.00	0.0041	7.04	12.17	14.77	11.83	14.77	12.17
VANO 5	10.20	10.00	1254.35	479.88	1668.67	1126.70	72.74	17.82	5900.00	0.0041	1.95	9.89	65.34	16.01	5900.00	0.0041	6.77	11.39	14.77	11.83	14.77	11.83
VANO 5	10.20	11.00	1254.35	479.88	1668.67	1126.70	72.74	17.82	5900.00	0.0041	1.95	9.89	65.34	16.01	5900.00	0.0041	6.77	11.39	14.77	11.83	14.77	11.83
VANO 5	11.48	12.00	1147.68	452.96	1604.13	1036.20	66.56	16.31	5900.00	0.0041	1.84	9.07	60.09	14.72	5900.00	0.0041	6.51	10.62	14.77	11.83	14.77	11.83
VANO 5	12.75	13.00	1042.03	426.60	1543.44	945.60	60.43	14.81	5900.00	0.0041	1.73	8.27	54.84	13.44	5900.00	0.0041	6.27	9.85	14.77	11.83	14.77	11.83
VANO 5	14.03	14.00	937.44	400.50	1484.16	854.91	54.37	13.32	5900.00	0.0041	1.63	7.47	49.58	12.15	5900.00	0.0041	6.02	9.09	14.77	11.83	14.77	11.83
VANO 5	15.30	15.00	833.95	374.65	1427.00	764.13	48.36	11.85	5900.00	0.0041	1.52	6.69	44.32	10.86	5900.00	0.0041	5.79	8.32	14.77	11.83	14.77	11.83
VANO 5	15.30	16.00	817.01	374.65	1427.00	747.19	47.38	11.61	5900.00	0.0041	1.52	6.56	43.33	10.62	5900.00	0.0041	5.79	8.20	14.77	11.83	14.77	11.83
VANO 5	16.58	17.00	714.66	349.04	1371.55	656.33	41.45	10.15	5900.00	0.0041	1.42	5.79	38.06	9.33	5900.00	0.0041	5.57	7.45	14.77	11.83	14.77	11.83
VANO 5	17.85	18.00	613.48	323.69	1319.63	565.40	35.58	8.72	5900.00	0.0041	1.31	5.02	32.79	8.03	5900.00	0.0041	5.35	6.69	14.77	11.83	14.77	11.83
VANO 5	19.13	19.00	513.51	298.58	1268.22	474.41	29.78	7.30	5900.00	0.0041	1.21	4.25	27.51	6.74	5900.00	0.0041	5.15	5.94	14.77	11.83	14.77	11.83
VANO 5	20.40	20.00	461.27	142.55	1219.53	383.37	26.75	6.55	5900.00	0.0041	0.58	3.57	22.23	5.45	5900.00	0.0041	4.95	5.20	14.77	11.83	14.77	11.83
VANO 5	20.40	21.00	461.27	142.55	1219.53	383.37	26.75	6.55	5900.00	0.0041	0.58	3.57	22.23	5.45	5900.00	0.0041	4.95	5.20	14.77	11.83	14.77	11.83
VANO 5	21.68	22.00	533.87	138.73	1179.62	292.29	30.96	7.59	5900.00	0.0041	0.56	4.07	16.95	4.15	5900.00	0.0041	4.79	4.47	14.77	11.83	14.77	11.83
VANO 5	22.95	23.00	607.89	134.90	1142.43	201.18	35.25	8.64	5900.00	0.0041	0.55	4.59	11.67	2.86	5900.00	0.0041	4.64	3.75	14.77	11.83	14.77	11.83
VANO 5	24.23	24.00	683.32	131.07	1107.28	110.05	39.63	9.71	5900.00	0.0041	0.53	5.12	6.38	1.56	5900.00	0.0041	4.50	3.03	14.77	11.83	14.77	11.83
VANO 5	25.50	25.00	415.92	203.67	1074.68	18.91	24.12	5.91	5900.00	0.0041	0.83	3.37	1.10	0.27	5900.00	0.0041	4.36	2.32	14.77	11.83	14.77	11.83
VANO 5	25.50	26.00	415.92	153.08	1024.10	18.91	24.12	5.91	5900.00	0.0041	0.62	3.27	1.10	0.27	5900.00	0.0041	4.16	2.21	14.77	11.83	14.77	11.83
VANO 5	26.78	27.00	720.02	129.46	988.23	74.59	41.76	10.23	5900.00	0.0041	0.53	5.38	4.33	1.06	5900.00	0.0041	4.01	2.54	14.77	11.83	14.77	11.83
VANO 5	28.05	28.00	644.84	106.14	975.22	165.01	37.40	9.16	5900.00	0.0041	0.43	4.80	9.57	2.34	5900.00	0.0041	3.96	3.15	14.77	11.83	14.77	11.83
VANO 5	29.33	29.00	571.06	83.13	1008.40	256.11	33.12	8.11	5900.00	0.0041	0.34	4.23	14.85	3.64	5900.00	0.0041	4.09	3.87	14.77	11.83	14.77	11.83
VANO 5	30.60	30.00	498.70	60.41	1043.50	347.17	28.92	7.09	5900.00	0.0041	0.25	3.67	20.13	4.93	5900.00	0.0041	4.24	4.59	14.77	11.83	14.77	11.83
VANO 5	30.60	31.00	498.70	60.41	1043.50	347.17	28.92	7.09	5900.00	0.0041	0.25	3.67	20.13	4.93	5900.00	0.0041	4.24	4.59	14.77	11.83	14.77	11.83
VANO 5	31.88	32.00	474.33	146.82	1088.38	438.19	27.51	6.74	5900.00	0.0041	0.60	3.67	25.41	6.23	5900.00	0.0041	4.42	5.32	14.77	11.83	14.77	11.83
VANO 5	33.15	33.00	574.53	168.05	1134.99	529.15	33.32	8.16	5900.00	0.0041	0.68	4.42	30.69	7.52	5900.00	0.0041	4.61	6.06	14.77	11.83	14.77	11.83
VANO 5	34.43	34.00	675.91	189.60	1183.75	620.04	39.20	9.60	5900.00	0.0041	0.77	5.19	35.96	8.81	5900.00	0.0041	4.81	6.81	14.77	11.83	14.77	11.83
VANO 5	35.70	35.00	778.46	212.27	1235.22	710.87	45.15	11.06	5900.00	0.0041	0.86	5.96	41.23	10.10	5900.00	0.0041	5.01	7.56	14.77	11.83	14.77	11.83
VANO 5	35.70	36.00	778.46	212.27	1235.22	710.87	45.15	11.06	5900.00	0.0041	0.86	5.96	41.23	10.10	5900.00	0.0041	5.01	7.56	14.77	11.83	14.77	11.83
VANO 5	36.98	37.00	882.13	235.19	1288.81	801.60	51.16	12.53	5900.00	0.0041	0.95	6.74	46.49	11.39	5900.00	0.0041	5.23	8.31	14.77	11.83	14.77	11.83
VANO 5	38.25	38.00	986.88	258.36	1344.52	892.25	57.23	14.02	5900.00	0.0041	1.05	7.54	51.75	12.68	5900.00	0.0041	5.46	9.07	14.77	11.83	14.77	11.83
VANO 5	39.53	39.00	1092.69	282.02	1402.53	982.80	63.37	15.53	5900.00	0.0041	1.14	8.34	57.00	13.96	5900.00	0.0041	5.69	9.83	14.77	11.83	14.77	11.83
VANO 5	40.80	40.00	1199.49	306.98	1463.83	1073.24	69.56	17.04	5900.00	0.0041	1.25	9.14	62.24	15.25	5900.00	0.0041	5.94	10.60	14.77	11.83	14.77	11.83
VANO 5	40.80	41.00	1199.49	306.98	1463.83	1073.24	69.56	17.04	5900.00	0.0041	1.25	9.14	62.24	15.25	5900.00	0.0041	5.94	10.60	14.77	11.83	14.77	11.83
VANO 5	42.08	42.00	1307.25	332.19	1527.19	1163.57	75.81	18.57	5900.00	0.0041	1.35	9.96	67.48	16.53	5900.00	0.0041	6.20	11.37	14.77	11.83	14.77	11.83
VANO 5	43.35	43.00	1415.92	359.16	1594.13	1253.78	82.12	20.12	5900.00	0.0041	1.46	10.79	72.71	17.81	5900.00	0.0041	6.47	12.14	14.77	11.83	14.77	12.14
VANO 5	44.63	44.00	1525.44	386.37	1663.23	1343.87	88.47	21.67	5900.00	0.0041	1.57	11.62	77.94	19.09	5900.00	0.0041	6.75	12.92	14.77	11.83	14.77	12.92
VANO 5	45.90	45.00	1635.77	413.84	1734.52	1433.83	94.87	23.24	5900.00	0.0041	1.68	12.46	83.15	20.37	5900.00	0.0041	7.04	13.71	14.77	11.83	14.77	13.71
VANO 5	45.90	46.00	1635.77	413.84	1734.52	1433.83	94.87	23.24	5900.00	0.0041	1.68	12.46	83.15	20.37	5900.00	0.0041	7.04	13.71	14.77	11.83	14.77	13.71
VANO 5	47.18	47.00	1746.83	441.55	1807.87	1523.65	101.31	24.82	5900.00	0.0041	1.79	13.31	88.36	21.65	5900.00	0.0041	7.34	14.49	14.77	11.83	14.77	14.49
VANO 5	48.45	48.00	1858.59	469.51	1883.31	1613.33	107.79	26.41	5900.00	0.0041	1.91	14.16	93.56	22.92	5900.00	0.0041	7.64	15.28	14.77	11.83	15.28	15.28
VANO 5	49.73	49.00	1970.96	497.72	1960.91	1702.88	114.30	28.00	5900.00	0.0041	2.02	15.01	98.76	24.20	5900.00	0.0041	7.96	16.08	14.77	11.83	16.08	16.08
VANO 5	51.00	50.00	2466.55	526.18	2040.61	1792.27	143.05	35.05	5900.00	0.0041	2.14	18.59	103.94	25.47	5900.00	0.0041	8.28	16.87	14.77	11.83	18.59	18.59
VANO 6	0.00	1.00	2406.83	757.03	2337.01	1742.10	139.58	34.20	5900.00	0.0041	3.07	18.64	101.03	24.75	5900.00	0.0041	9.49	17.12	14.77	11.83	18.64	18.64
VANO 6	1.20	2.00	1891.68	730.03	2261.09	1657.69	109.71	26.88	5900.00	0.0041	2.96	14.92	96.14	23.55	5900.00	0.0041	9.18	16.37	14.77	11.83	16.37	16.37
VANO 6	2.40	3.00	1785.62	703.26	2186.91	1573.15	103.56	25.37	5900.00	0.0041	2.85	14.11	91.23	22.35	5900.00	0.0041	8.88	15.61	14.77	11.83	15.61	15.61
VANO 6	3.60	4.00	1680.19	675.72	2114.81	1488.48	97.44	23.87	5900.00	0.0041	2.75	13.31	86.32	21.15	5900.00	0.0041	8.58	14.87	14.77	11.83	14.87	14.87
VANO 6	4.80	5.00	1575.43	650.41	2044.70	1403.69	91.37	22.38	5900.00	0.0041	2.64	12.51	81.41	19.94	5900.00	0.0041	8.30	14.12	14.77	11.83	14.77	14.12
VANO 6	4.80	6.00	1575.43	650.41	2044.70	1403.69	91.37	22.38	5900.00	0.0041	2.64	12.51	81.41	19.94	5900.00	0.0041	8.30	14.12	14.77	11.83	14.77	14.12
VANO 6	6.00	7.00	1471.41	624.33	1976.50	1318.78	85.33	20.91	5900.00	0.0041	2.53	11.72	76.48	18.74	5900.00	0.0041	8.02	13.38	14.77	11.83	14.77	13.38
VANO 6	7.20	8.00	1368.18	598.47	1910.27	1233.75	79.35	19.44	5900.00	0.0041	2.43	10.93	71.55	17.53	5900.00	0.0041	7.75	12.64	14.77	11.83	14.77	12.64
VANO 6	8.40	9.00	1265.78	572.85	1845.90	1148.61	73.41	17.98	5900.00	0.0041	2.33	10.16	66.61	16.32	5900.00	0.0041	7.49	11.91	14.77	11.83	14.77	11.91
VANO 6	9.60	10.00	1164.26	547.45	1783.66	1063.36	67.52	16.54	5900.00	0.0041	2.22	9.38	61.67	15.11	5900.00	0.0041	7.24	11.17	14.77	11.83	14.77	11.83
VANO 6	9.60	11.00	1164.26	547.45	1783.66	1063.36	67.52	16.54	5900.00	0.0041	2.22	9.38	61.67	15.11	5900.00	0.0041	7.24	11.17	14.77	11.83	14.77	11.83
VANO 6	10.80	12.00	1063.67	522.29	1723.29	978.02	61.69	15.11	5900.00	0.0041	2.12	8.62	56.72	13.90	5900.00	0.0041	7.00	10.45	14.77	11.83	14.77	11.83
VANO 6	12.00	13.00	964.04	497.35	1664.87	892.58	55.91	13.70	5900.00	0.0041	2.02	7.86	51.76	12.68	5900.00	0.0041	6.76	9.72	14.77	11.83	14.77	11.83
VANO 6	13.20	14.00	865.42	472.64	1608.4	807.06	50.19	12.30	5900.00	0.0041	1.92	7.11	46.81	11.47	5900.00	0.0041	6.53	9.00	14.77	11.83	14.77	11.83
VANO 6	14.40	15.00	767.84	448.16	1553.90	721.46	44.53	10.91	5900.00	0.0041	1.82	6.36	41.84	10.25	5900.00	0.0041	6.31	8.28	14.77	11.83	14.77	11.83
VANO 6	14.40	16.00	750.89	448.16	1553.90	704.52	43.55	10.67	5900.00	0.0041	1.82	6.24	40.86	10.01	5900.00	0.0041	6.31	8.16	14.77	11.83	14.77	11.83
VANO 6	16.60	17.00	654.39	423.91	1501.35	618.85	37.95	9.30	5900.00	0.0041	1.72	5.51	35.89	8.79	5900.00	0.0041	6.09	7.44	14.77	11.83	14.77	11.83
VANO 6	16.60	18.00	558.99	399.88	1450.70	533.12	32.42	7.94	5900.00	0.0041	1.62	4.78	30.92	7.57	5900.00	0.0041	5.89	6.73	14.77	11.83	14.77	11.83
VANO 6	18.00	19.00	464.74	376.09	1402.1	447.34	26.95	6.60	5900.00	0.0041	1.53	4.06	25.94	6.36	5900.00	0.0041	5.69	6.02	14.77	11.83	14.77	11.83
VANO 6	19.20	20.00	477.66	226.51	1355.53	361.51	27.70	6.79	5900.00	0.0041	0.92	3.85	20.97	5.14	5900.00	0.0041	5.50	5.32	14.77	11.83	14.77	11.83
VANO 6	19.20	21.00	477.66	226.51	1355.53	361.51	27.70	6.79	5900.00	0.0041	0.92	3.85	20.97	5.14	5900.00	0.0041	5.50	5.32	14.77	11.83	14.77	11.83
VANO 6	20.40	22.00	558.53	207.33	1311.11	275.65	32.39	7.94	5900.00	0.0041	0.84	4.39	15.99	3.92	5900.00	0.0041	5.32	4.62	14.77	11.83	14.77	11.83
VANO 6	21.60	23.00	640.71	197.25	1268.86	189.76	37.16	9.10	5900.00	0.0041	0.80	4.95	11.01	2.70	5900.00	0.0041	5.15	3.92	14.77	11.83	14.77	11.83
VANO 6	22.80	24.00	724.21	187.17	1228.77	103.86	42.00	10.29	5900.00	0.0041	0.76	5.52	6.02	1.48	5900.00	0.0041	4.99	3.23	14.77	11.83	14.77	11.83
VANO 6	24.00	25.00	421.04	260.02	1190.84	17.95	24.42	5.98	5900.00	0.0041	1.06	3.52	1.04	0.26	5900.00	0.0041	4.83	2.54	14.77	11.83	14.77	11.83
VANO 6	24.00	26.00	421.04	260.02	1190.84	17.95	24.42	5.98	5900.00	0.0041	1.06	3.52	1.04	0.26	5900.00	0.0041	4.83	2.54	14.77	11.83	14.77	11.83
VANO 6	25.20	27.00	744.38	237.62	1155.08	85.59	43.17	10.58	5900.00	0.0041	0.96	5.77	4.96	1.22	5900.00	0.0041	4.69	2.95	14.77	11.83	14.77	11.83
VANO 6	26.40	28.00	661.03	215.51	1121.41	172.39	38.34	9.39	5900.00	0.0041	0.87	5.13	10.00	2.45	5900.00	0.0041	4.55	3.50	14.77	11.83	14.77	11.83
VANO 6	27.60	29.00	579.01	193.68	1103.66	259.16	33.58	8.23	5900.00	0.0041	0.79	4.51	15.03	3.68	5900.00	0.0041	4.48	4.08	14.77	11.83	14.77	11.83
VANO 6	28.80	30.00	498.29	172.12	1088.18	345.91	28.90	7.08	5900.00	0.0041	0.70	3.89	20.06	4.91	5900.00	0.0041	4.42	4.67	14.77	11.83	14.77	11.83
VANO 6	28.80	31.00	498.29	172.12	1088.18	345.91	28.90	7.08	5900.00	0.0041	0.70	3.89	20.06	4.91	5900.00	0.0041	4.42	4.67	14.77	11.83	14.77	11.83
VANO 6	30.00	32.00	444.49	126.71	1074.84	432.61	25.78	6.32	5900.00	0.0041	0.51	3.41	25.09	6.15	5900.00	0.0041	4.36	5.25	14.77	11.83	14.77	11.83
VANO 6	31.20	33.00	538.90	116.63	1101.40	514.12	31.25	7.66	5900.00	0.0041	0.47	4.07	29.82	7.30	5900.00	0.0041	4.47	5.89	14.77	11.83	14.77	11.83
VANO 6	32.40	34.00	634.44	128.92	1140.13	599.82	36.79	9.01	5900.00	0.0041	0.52	4.77	34.79	8.52	5900.00	0.0041	4.63	6.58	14.77	11.83	14.77	11.83
VANO 6	33.60	35.00	731.08	142.87	1180.82	685.45	42.40	10.39	5900.00	0.0041	0.58	5.48	39.75	9.74	5900.00	0.0041	4.79	7.27	14.77	11.83	14.77	11.83
VANO 6	33.60	36.00	731.08	142.87	1180.82	685.45	42.40	10.39	5900.00	0.0041	0.58	5.48	39.75	9.74	5900.00	0.0041	4.79	7.27	14.77	11.83	14.77	11.83
VANO 6	34.80	37.00	828.77	157.04	1223.46	771.01	48.06	11.78	5900.00	0.0041	0.64	6.21	44.71	10.96	5900.00	0.0041	4.97	7.96	14.77	11.83	14.77	11.83
VANO 6	36.00	38.00	927.50	171.45	1268.06	856.49	53.79	13.18	5900.00	0.0041	0.70	6.94	49.67	12.17	5900.00	0.0041	5.15	8.66	14.77	11.83	14.77	11.83
VANO 6	37.20	39.00	1027.21	191.90	1320.43	941.88	59.57	14.60	5900.00	0.0041	0.78	7.69	54.62	13.38	5900.00	0.0041	5.36	9.37	14.77	11.83	14.77	11.83
VANO 6	38.40	40.00	1127.88	213.19	1375.36	1027.17	65.41	16.03	5900.00	0.0041	0.87	8.45	59.57	14.59	5900.00	0.0041	5.58	10.09	14.77	11.83	14.77	11.83
VANO 6	38.40	41.00	1127.88	213.19	1375.36	1027.17	65.41	16.03	5900.00	0.0041	0.87	8.45	59.57	14.59	5900.00	0.0041	5.58	10.09	14.77	11.83	14.77	11.83
VANO 6	39.60	42.00	1229.45	234.71	1432.24	1112.36	71.30	17.47	5900.00	0.0041	0.95	9.21	64.51	15.81	5900.00	0.0041	5.81	10.81	14.77	11.83	14.77	11.83
VANO 6	40.80	43.00	1331.89	256.45	1491.08	1197.44	77.24	18.92	5900.00	0.0041	1.04	9.98	69.44	17.01	5900.00	0.0041	6.05	11.53	14.77	11.83	14.77	11.83
VANO 6	42.00	44.00	1435.15	278.43	1551.87	1282.41	83.23	20.39	5900.00	0.0041	1.13	10.76	74.37	18.22	5900.00	0.0041	6.30	12.26	14.77	11.83	14.77	12.26
VANO 6	43.20	45.00	1539.17	300.63	1614.61	1367.26	89.26	21.87	5900.00	0.0041	1.22	11.54	79.29	19.43	5900.00	0.0041	6.55	12.99	14.77	11.83	14.77	12.99
VANO 6	43.20	46.00	1539.17	300.63	1614.61	1367.26	89.26	21.87	5900.00	0.0041	1.22	11.54	79.29	19.43	5900.00	0.0041	6.55	12.99	14.77	11.83	14.77	12.99
VANO 6	44.40	47.00	1643.90	323.07	1679.31	1451.99	95.34	23.36	5900.00	0.0041	1.31	12.33	84.21	20.63	5900.00	0.0041	6.82	13.72	14.77	11.83	14.77	13.72
VANO 6	45.60	48.00	1749.29	346.56	1746.52	1536.59	101.45	24.86	5900.00	0.0041	1.41	13.13	89.11	21.83	5900.00	0.0041	7.09	14.46	14.77	11.83	14.77	14.46
VANO 6	46.80	49.00	1855.28	370.34	1815.72	1621.06	107.60	26.36	5900.00	0.0041	1.50	13.93	94.01	23.03	5900.00	0.0041	7.37	15.20	14.77	11.83	15.20	15.20

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	4	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR EN ZONA CENTRAL

CARACT. RASANTE		CARACTERISTICAS TORSOR			
M est (S6)=	1.16	fyd armad =	40816.3	Ae =	20.67
Inercia XX =	20.0	fck (t/m2) =	4081.6	he =	0.25
fyd cercos =	40816	fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1	cotg tetha =	1.46	Ap=	0.0342
K rasant =	0.058	Beta comp=	1.44	K tors Tu3 =	1.526
Canto sec=	0.33	K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC | **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** | **ARMADO DEFINITIV**

			Hipótesis max cortante		Hipótesis max torsor		Dos caras					Dos caras					FLEXIÓN TRANS	
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	Una cara As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	Una cara As (Rd+Td)	As ext	As int
VANO 7	0.00	1.00	2316.53	710.45	2345.43	1717.32	134.35	32.91	5900.00	0.0041	2.88	17.90	99.59	24.40	5900.00	0.0041	9.52	16.96	14.77	11.83
VANO 7	1.20	2.00	1801.53	683.29	2269.69	1632.98	104.48	25.60	5900.00	0.0041	2.77	14.19	94.70	23.20	5900.00	0.0041	9.21	16.21	14.77	11.83
VANO 7	2.40	3.00	1698.44	656.36	2195.00	1548.51	98.50	24.13	5900.00	0.0041	2.66	13.40	89.80	22.00	5900.00	0.0041	8.91	15.46	14.77	11.83
VANO 7	3.60	4.00	1605.64	629.66	2124.65	1463.91	93.12	22.81	5900.00	0.0041	2.56	12.68	84.90	20.80	5900.00	0.0041	8.62	14.71	14.77	11.83
VANO 7	4.80	5.00	1513.50	603.18	2054.14	1379.18	87.77	21.50	5900.00	0.0041	2.45	11.98	79.98	19.60	5900.00	0.0041	8.34	13.97	14.77	11.83
VANO 7	4.80	6.00	1513.50	603.18	2054.14	1379.18	87.77	21.50	5900.00	0.0041	2.45	11.98	79.98	19.60	5900.00	0.0041	8.34	13.97	14.77	11.83
VANO 7	6.00	7.00	1422.07	576.92	1986.18	1294.33	82.47	20.21	5900.00	0.0041	2.34	11.27	75.06	18.39	5900.00	0.0041	8.06	13.23	14.77	11.83
VANO 7	7.20	8.00	1331.41	550.89	1920.16	1209.36	77.21	18.92	5900.00	0.0041	2.24	10.58	70.14	17.18	5900.00	0.0041	7.79	12.49	14.77	11.83
VANO 7	8.40	9.00	1232.18	525.09	1856.09	1124.28	71.46	17.51	5900.00	0.0041	2.13	9.82	65.20	15.97	5900.00	0.0041	7.53	11.75	14.77	11.83
VANO 7	9.60	10.00	1130.68	499.51	1793.16	1039.09	65.57	16.07	5900.00	0.0041	2.03	9.05	60.26	14.76	5900.00	0.0041	7.28	11.02	14.77	11.83
VANO 7	9.60	11.00	1130.68	499.51	1793.16	1039.09	65.57	16.07	5900.00	0.0041	2.03	9.05	60.26	14.76	5900.00	0.0041	7.28	11.02	14.77	11.83
VANO 7	10.80	12.00	1030.10	474.16	1733.17	953.80	59.74	14.64	5900.00	0.0041	1.92	8.28	55.32	13.55	5900.00	0.0041	7.04	10.29	14.77	11.83
VANO 7	12.00	13.00	930.46	449.04	1675.12	868.42	53.96	13.22	5900.00	0.0041	1.82	7.52	50.36	12.34	5900.00	0.0041	6.80	9.57	14.77	11.83
VANO 7	13.20	14.00	831.83	424.14	1619.22	782.95	48.24	11.82	5900.00	0.0041	1.72	6.77	45.41	11.12	5900.00	0.0041	6.57	8.85	14.77	11.83
VANO 7	14.40	15.00	734.22	399.46	1564.66	697.40	42.58	10.43	5900.00	0.0041	1.62	6.03	40.45	9.91	5900.00	0.0041	6.35	8.13	14.77	11.83
VANO 7	14.40	16.00	717.28	399.46	1564.66	680.45	41.60	10.19	5900.00	0.0041	1.62	5.91	39.46	9.67	5900.00	0.0041	6.35	8.01	14.77	11.83
VANO 7	15.60	17.00	620.74	375.01	1512.44	594.83	36.00	8.82	5900.00	0.0041	1.52	5.17	34.50	8.45	5900.00	0.0041	6.14	7.30	14.77	11.83
VANO 7	16.80	18.00	525.30	350.79	1461.57	509.14	30.46	7.46	5900.00	0.0041	1.42	4.44	29.53	7.23	5900.00	0.0041	5.93	6.58	14.77	11.83
VANO 7	18.00	19.00	430.99	326.79	1413.44	423.39	25.00	6.12	5900.00	0.0041	1.33	3.73	24.55	6.02	5900.00	0.0041	5.74	5.88	14.77	11.83
VANO 7	19.20	20.00	489.77	177.07	1366.56	337.60	28.40	6.96	5900.00	0.0041	0.72	3.84	19.58	4.80	5900.00	0.0041	5.55	5.17	14.77	11.83
VANO 7	19.20	21.00	489.77	177.07	1366.56	337.60	28.40	6.96	5900.00	0.0041	0.72	3.84	19.58	4.80	5900.00	0.0041	5.55	5.17	14.77	11.83
VANO 7	20.40	22.00	567.43	166.70	1322.63	251.77	32.91	8.06	5900.00	0.0041	0.68	4.37	14.60	3.58	5900.00	0.0041	5.37	4.47	14.77	11.83
VANO 7	21.60	23.00	646.40	156.32	1280.45	165.91	37.49	9.18	5900.00	0.0041	0.63	4.91	9.62	2.36	5900.00	0.0041	5.20	3.78	14.77	11.83
VANO 7	22.80	24.00	726.69	145.95	1240.42	80.03	42.14	10.33	5900.00	0.0041	0.59	5.46	4.64	1.14	5900.00	0.0041	5.04	3.09	14.77	11.83
VANO 7	24.00	25.00	399.83	135.57	1202.55	10.26	23.19	5.68	5900.00	0.0041	0.55	3.12	0.59	0.15	5900.00	0.0041	4.88	2.51	14.77	11.83
VANO 7	24.00	26.00	399.83	135.57	1202.55	10.26	23.19	5.68	5900.00	0.0041	0.55	3.12	0.59	0.15	5900.00	0.0041	4.88	2.51	14.77	11.83
VANO 7	25.20	27.00	711.62	187.04	1166.52	97.04	41.27	10.11	5900.00	0.0041	0.76	5.44	5.63	1.38	5900.00	0.0041	4.74	3.06	14.77	11.83
VANO 7	26.40	28.00	631.31	164.70	1134.52	183.82	36.61	8.97	5900.00	0.0041	0.67	4.82	10.66	2.61	5900.00	0.0041	4.61	3.61	14.77	11.83
VANO 7	27.60	29.00	552.32	142.63	1120.16	270.58	32.03	7.85	5900.00	0.0041	0.58	4.21	15.69	3.84	5900.00	0.0041	4.55	4.20	14.77	11.83
VANO 7	28.80	30.00	474.65	120.83	1107.55	357.31	27.53	6.74	5900.00	0.0041	0.49	3.62	20.72	5.08	5900.00	0.0041	4.50	4.79	14.77	11.83
VANO 7	28.80	31.00	474.65	120.83	1107.55	357.31	27.53	6.74	5900.00	0.0041	0.49	3.62	20.72	5.08	5900.00	0.0041	4.50	4.79	14.77	11.83
VANO 7	30.00	32.00	441.60	111.38	1097.68	444.01	25.61	6.27	5900.00	0.0041	0.45	3.36	25.75	6.31	5900.00	0.0041	4.45	5.38	14.77	11.83
VANO 7	31.20	33.00	535.90	124.89	1117.11	525.19	31.08	7.61	5900.00	0.0041	0.51	4.06	30.46	7.46	5900.00	0.0041	4.53	6.00	14.77	11.83
VANO 7	32.40	34.00	631.32	143.44	1155.66	610.89	36.61	8.97	5900.00	0.0041	0.58	4.78	35.43	8.68	5900.00	0.0041	4.69	6.69	14.77	11.83
VANO 7	33.60	35.00	727.84	163.77	1196.76	696.51	42.21	10.34	5900.00	0.0041	0.66	5.50	40.39	9.90	5900.00	0.0041	4.86	7.38	14.77	11.83
VANO 7	33.60	36.00	727.84	163.77	1196.76	696.51	42.21	10.34	5900.00	0.0041	0.66	5.50	40.39	9.90	5900.00	0.0041	4.86	7.38	14.77	11.83
VANO 7	34.80	37.00	825.43	184.39	1239.50	782.07	47.87	11.73	5900.00	0.0041	0.75	6.24	45.36	11.11	5900.00	0.0041	5.03	8.07	14.77	11.83
VANO 7	36.00	38.00	924.05	205.23	1284.18	867.55	53.59	13.13	5900.00	0.0041	0.83	6.98	50.31	12.33	5900.00	0.0041	5.21	8.77	14.77	11.83
VANO 7	37.20	39.00	1023.67	226.30	1330.81	952.93	59.37	14.54	5900.00	0.0041	0.92	7.73	55.26	13.54	5900.00	0.0041	5.40	9.47	14.77	11.83
VANO 7	38.40	40.00	1124.25	247.59	1381.15	1038.23	65.20	15.97	5900.00	0.0041	1.01	8.49	60.21	14.75	5900.00	0.0041	5.61	10.18	14.77	11.83
VANO 7	38.40	41.00	1124.25	247.59	1381.13	1038.23	65.20	15.97	5900.00	0.0041	1.01	8.49	60.21	14.75	5900.00	0.0041	5.61	10.18	14.77	11.83
VANO 7	39.60	42.00	1225.73	269.50	1438.03	1123.42	71.09	17.42	5900.00	0.0041	1.09	9.25	65.15	15.96	5900.00	0.0041	5.84	10.90	14.77	11.83
VANO 7	40.80	43.00	1328.09	292.13	1496.84	1208.51	77.02	18.87	5900.00	0.0041	1.19	10.03	70.09	17.17	5900.00	0.0041	6.08	11.62	14.77	11.83
VANO 7	42.00	44.00	1431.26	314.99	1557.59	1293.48	83.01	20.34	5900.00	0.0041	1.28	10.81	75.01	18.38	5900.00	0.0041	6.32	12.35	14.77	12.35
VANO 7	43.20	45.00	1535.21	338.08	1620.29	1378.33	89.03	21.81	5900.00	0.0041	1.37	11.59	79.94	19.58	5900.00	0.0041	6.58	13.08	14.77	13.08
VANO 7	43.20	46.00	1535.21	338.08	1620.29	1378.33	89.03	21.81	5900.00	0.0041	1.37	11.59	79.94	19.58	5900.00	0.0041	6.58	13.08	14.77	13.08
VANO 7	44.40	47.00	1639.87	361.39	1684.93	1463.07	95.10	23.30	5900.00	0.0041	1.47	12.38	84.85	20.79	5900.00	0.0041	6.84	13.81	14.77	13.81
VANO 7	45.60	48.00	1745.20	384.93	1752.05	1547.68	101.21	24.80	5900.00	0.0041	1.56	13.18	89.76	21.99	5900.00	0.0041	7.11	14.55	14.77	14.55
VANO 7	46.80	49.00	1851.13	408.69	1821.13	1632.16	107.36	26.30	5900.00	0.0041	1.66	13.98	94.66	23.19	5900.00	0.0041	7.39	15.29	14.77	15.29
VANO 7	48.00	50.00	2386.13	432.68	1892.33	1716.50	137.22	33.62	5900.00	0.0041	1.76	17.69	98.55	24.39	5900.00	0.0041	7.63	16.04	14.77	17.69
VANO 8	0.00	1.00	2316.53	710.45	2236.87	1719.11	134.35	32.91	5900.00	0.0041	2.88	17.90	99.70	24.43	5900.00	0.0041	9.08	16.75	14.77	11.83
VANO 8	1.20	2.00	1801.53	683.29	2161.65	1634.77	104.48	25.60	5900.00	0.0041	2.77	14.19	94.81	23.23	5900.00	0.0041	8.77	16.00	14.77	11.83
VANO 8	2.40	3.00	1698.44	656.36	2088.33	1550.30	98.50	24.13	5900.00	0.0041	2.66	13.40	89.91	22.03	5900.00	0.0041	8.48	15.25	14.77	11.83
VANO 8	3.60	4.00	1605.64	629.66	2017.02	1465.71	93.12	22.81	5900.00	0.0041	2.56	12.68	85.00	20.83	5900.00	0.0041	8.19	14.51	14.77	11.83
VANO 8	4.80	5.00	1513.50	603.18	1947.63	1380.98	87.77	21.50	5900.00	0.0041	2.45	11.98	80.09	19.62	5900.00	0.0041	7.91	13.76	14.77	11.83
VANO 8	4.80	6.00	1513.50	603.18	1947.63	1380.98	87.77	21.50	5900.00	0.0041	2.45	11.98	80.09	19.62	5900.00	0.0041	7.91	13.76	14.77	11.83
VANO 8	6.00	7.00	1422.07	576.92	1880.11	1296.14	82.47	20.21	5900.00	0.0041	2.34	11.27	75.17	18.42	5900.00	0.0041	7.63	13.02	14.77	11.83
VANO 8	7.20	8.00	1331.41	550.89	1814.51	1211.17	77.21	18.92	5900.00	0.0041	2.24	10.58	70.24	17.21	5900.00	0.0041	7.37	12.29	14.77	11.83
VANO 8	8.40	9.00	1232.18	525.09	1750.91	1126.10	71.46	17.51	5900.00	0.0041	2.13	9.82	65.31	16.00	5900.00	0.0041	7.11	11.55	14.77	11.83
VANO 8	9.60	10.00	1130.68	499.51	1689.20	1040.92	65.57	16.07	5900.00	0.0041	2.03	9.05	60.37	14.79	5900.00	0.0041	6.86	10.82	14.77	11.83
VANO 8	9.60	11.00	1130.68	499.51	1689.20	1040.92	65.57	16.07	5900.00	0.0041	2.03	9.05	60.37	14.79	5900.00	0.0041	6.86	10.82	14.77	11.83
VANO 8	10.80	12.00	1030.10	474.16	1629.47	955.63	59.74	14.64	5900.00	0.0041	1.92	8.28	55.42	13.58	5900.00	0.0041	6.61	10.10	14.77	11.83
VANO 8	12.00	13.00	930.46	449.04	1571.57	870.26	53.96	13.22	5900.00	0.0041	1.82	7.52	50.47	12.37	5900.00	0.0041	6.38	9.37	14.77	11.83
VANO 8	13.20	14.00	831.83	424.14	1515.66	784.79	48.24	11.82	5900.00	0.0041	1.72	6.77	45.51	11.15	5900.00	0.0041	6.15	8.65	14.77	11.83
VANO 8	14.40	15.00	734.22	399.46	1461.66	699.25	42.58	10.43	5900.00	0.0041	1.62	6.03	40.55	9.94	5900.00	0.0041	5.93	7.93	14.77	11.83
VANO 8	14.40	16.00	717.28	399.46	1461.66	682.30	41.60	10.19	5900.00	0.0041	1.62	5.91	39.57	9.69	5900.00	0.0041	5.93	7.81	14.77	11.83
VANO 8	15.60	17.00	620.74	375.01	1409.61	596.69	36.00	8.82	5900.00	0.0041	1.52	5.17	34.60	8.48	5900.00	0.0041	5.72	7.10	14.77	11.83
VANO 8	16.80	18.00	525.30	350.79	1359.47	511.01	30.46	7.46	5900.00	0.0041	1.42	4.44	29.64	7.26	5900.00	0.0041	5.52	6.39	14.77	11.83
VANO 8	18.00	19.00	430.99	326.79	1311.27	425.27	25.00	6.12	5900.00	0.0041	1.33	3.73	24.66	6.04	5900.00	0.0041	5.32	5.68	14.77	11.83
VANO 8	19.20	20.00	489.77	177.07	1265.10	339.48	28.40	6.96	5900.00	0.0041	0.72	3.84	19.69	4.82	5900.00	0.0041	5.14	4.98	14.77	11.83
VANO 8	19.20	21.00	489.77	177.07	1265.10	339.48	28.40	6.96	5900.00	0.0041	0.72	3.84	19.69	4.82	5900.00	0.0041	5.14	4.98	14.77	11.83
VANO 8	20.40	22.00	567.43	166.70	1221.06	253.66	32.91	8.06	5900.00	0.0041	0.68	4.37	14.71	3.60	5900.00	0.0041	4.96	4.28	14.77	11.83
VANO 8	21.60	23.00	646.40	156.32	1179.16	167.81	37.49	9.18	5900.00	0.0041	0.63	4.91	9.73	2.38	5900.00	0.0041	4.79	3.59	14.77	11.83
VANO 8	22.80	24.00	726.69	145.95	1139.40	81.94	42.14	10.33	5900.00	0.0041	0.59	5.46	4.75	1.16	5900.00	0.0041	4.63	2.89	14.77	11.83
VANO 8	24.00	25.00	399.83	135.57	1103.9	5.42	23.19	5.68	5900.00	0.0041	0.55	3.12	0.31	0.08	5900.00	0.0041	4.48	2.28	14.77	11.83
VANO 8	24.00	26.00	399.83	135.57	1103.9	5.42	23.19	5.68	5900.00	0.0041	0.55	3.12	0.31	0.08	5900.00	0.0041	4.48	2.28	14.77	11.83
VANO 8	25.20	27.00	711.62	187.04	1073.33	91.80	41.27	10.11	5900.00	0.0041	0.76	5.44	5.32	1.30	5900.00	0.0041	4.36	2.83	14.77	11.83
VANO 8	26.40	28.00	631.31	164.70	1056.73	178.57	36.61	8.97	5900.00	0.0041	0.67	4.82	10.36	2.54	5900.00	0.0041	4.29	3.41	14.77	11.83
VANO 8	27.60	29.00	552.32	142.63	1057.99	262.63	32.03	7.85	5900.00	0.0041	0.58	4.21	15.23	3.73	5900.00	0.0041	4.29	4.01	14.77	11.83
VANO 8	28.80	30.00	474.65	120.83	1090.98	348.46	27.53	6.74	5900.00	0.0041	0.49	3.62	20.21	4.95	5900.00	0.0041	4.43	4.69	14.77	11.83
VANO 8	28.80	31.00	474.65	120.83	1090.98	348.46	27.53	6.74	5900.00	0.0041	0.49	3.62	20.21	4.95	5900.00	0.0041	4.43	4.69	14.77	11.83
VANO 8	30.00	32.00	441.60	111.38	1126.17	434.24	25.61	6.27	5900.00	0.0041	0.45	3.36	25.18	6.17	5900.00	0.0041	4.57	5.37	14.77	11.83
VANO 8	31.20	33.00	535.90	124.89	1165.23	519.98	31.08	7.61	5900.00	0.0041	0.51	4.06	30.16	7.39	5900.00	0.0041	4.73	6.06	14.77	11.83
VANO 8	32.40	34.00	631.32	143.44	1210.67	605.66	36.61	8.97	5900.00	0.0041	0.58	4.78	35.13	8.61	5900.00	0.0041	4.91	6.76	14.77	11.83
VANO 8	33.60	35.00	727.84	163.77	1258.04	691.28	42.21	10.34	5900.00	0.0041	0.66	5.50	40.09	9.82	5900.00	0.0041	5.11	7.46	14.77	11.83
VANO 8	33.60	36.00	727.84	163.77	1258.04	691.28	42.21	10.34	5900.00	0.0041	0.66	5.50	40.09	9.82	5900.00	0.0041	5.11	7.46	14.77	11.83
VANO 8	34.80	37.00	825.43	184.39	1307.89	776.83	47.87	11.73	5900.00	0.0041	0.75	6.24	45.05	11.04	5900.00	0.0041	5.31	8.17	14.77	11.83
VANO 8	36.00	38.00	924.05	205.23	1359.79	862.30	53.59	13.13	5900.00	0.0041	0.83	6.98	50.01	12.25	5900.00	0.0041	5.52	8.89	14.77	11.83
VANO 8	37.20	39.00	1023.67	226.30	1413.46	947.68	59.37	14.54	5900.00	0.0041	0.92	7.73	54.96	13.47	5900.00	0.0041	5.74	9.60	14.77	11.83
VANO 8	38.40	40.00	1124.25	247.59	1469.23	1032.97	65.20	15.97	5900.00	0.0041	1.01	8.49	59.91	14.68	5900.00	0.0041	5.96	10.32	14.77	11.83
VANO 8	38.40	41.00	1124.25	247.59	1469.23	1032.97	65.20	15.97	5900.00	0.0041	1.01	8.49	59.91	14.68	5900.00	0.0041	5.96	10.32	14.77	11.83
VANO 8	39.60	42.00	1225.73	269.50	1528.91	1118.15	71.09	17.42	5900.00	0.0041	1.09	9.25	64.85	15.89	5900.00	0.0041	6.20	11.04	14.77	11.83
VANO 8	40.80	43.00	1328.09	292.13	1586.86	1203.23	77.02	18.87	5900.00	0.0041	1.19	10.03	69.78	17.10	5900.00	0.0041	6.44	11.77	14.77	11.83
VANO 8	42.00	44.00	1431.26	314.99	1651.44	1288.20	83.01	20.34	5900.00	0.0041	1.28	10.81	74.71	18.30	5900.00	0.0041	6.70	12.50	14.77	11.83
VANO 8	43.20	45.00	1535.21	338.08	1717.95	1373.05	89.03	21.81	5900.00	0.0041	1.37	11.59	79.63	19.51	5900.00	0.0041	6.97	13.24	14.77	11.83
VANO 8	43.20	46.00	1535.21	338.08	1717.95	1373.05	89.03	21.81	5900.00	0.0041	1.37	11.59	79.63	19.51	5900.00	0.0041	6.97	13.24	14.77	11.83
VANO 8	44.40	47.00	1639.87	361.39	1786.38	1457.77	95.10	23.30	5900.00	0.0041	1.47	12.38	84.54	20.71	5900.00	0.0041	7.25	13.98	14.77	11.83
VANO 8	45.60	48.00	1745.20	384.93	1856.75	1542.38	101.21	24.80	5900.00	0.0041	1.56	13.18	89.45	21.92	5900.00	0.0041	7.54	14.73	14.77	11.83
VANO 8	46.80	49.00	1851.13	408.69	1929.04	1626.85	107.36	26.30	5900.00	0.0041	1.66	13.98	94.35	23.12	5900.00	0.0041	7.83	15.47	14.77	11.83

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR EN ZONA CENTRAL

CARACT. RASANTE		CARACTERISTICAS TORSOR			
M est (S6)=	1.16	fyd armad =	40816.3	Ae =	20.67
Inercia XX =	20.0	fck (t/m2) =	4081.6	he =	0.25
fyd cercos =	40816	fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1	cotg tetha =	1.46	Ap=	0.0342
K rasant =	0.058	Beta comp=	1.44	K tors Tu3 =	1.526
Canto sec=	0.33	K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

			Hipótesis max cortante		Hipótesis max torsor		Dos caras					Una cara	Dos caras					Una cara	FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 9	0.00	1.00	2316.53	710.45	2078.91	1719.14	134.35	32.91	5900.00	0.0041	2.88	17.90	99.70	24.43	5900.00	0.0041	8.44	16.43	14.77	11.83	17.90	17.90
VANO 9	1.20	2.00	1801.53	683.29	2004.31	1634.80	104.48	25.60	5900.00	0.0041	2.77	14.19	94.81	23.23	5900.00	0.0041	8.14	15.68	14.77	11.83	15.68	15.68
VANO 9	2.40	3.00	1698.44	656.36	1931.63	1550.33	98.50	24.13	5900.00	0.0041	2.66	13.40	89.91	22.03	5900.00	0.0041	7.84	14.93	14.77	11.83	14.93	14.93
VANO 9	3.60	4.00	1605.64	629.66	1860.88	1465.72	93.12	22.81	5900.00	0.0041	2.56	12.68	85.00	20.83	5900.00	0.0041	7.55	14.19	14.77	11.83	14.77	14.19
VANO 9	4.80	5.00	1513.50	603.18	1792.05	1381.00	87.77	21.50	5900.00	0.0041	2.45	11.98	80.09	19.62	5900.00	0.0041	7.27	13.45	14.77	11.83	14.77	13.45
VANO 9	4.80	6.00	1513.50	603.18	1792.05	1381.00	87.77	21.50	5900.00	0.0041	2.45	11.98	80.09	19.62	5900.00	0.0041	7.27	13.45	14.77	11.83	14.77	13.45
VANO 9	6.00	7.00	1422.07	576.92	1725.15	1296.15	82.47	20.21	5900.00	0.0041	2.34	11.27	75.17	18.42	5900.00	0.0041	7.00	12.71	14.77	11.83	14.77	12.71
VANO 9	7.20	8.00	1331.41	550.89	1660.18	1211.18	77.21	18.92	5900.00	0.0041	2.24	10.58	70.24	17.21	5900.00	0.0041	6.74	11.97	14.77	11.83	14.77	11.97
VANO 9	8.40	9.00	1232.18	525.09	1597.13	1126.11	71.46	17.51	5900.00	0.0041	2.13	9.82	65.31	16.00	5900.00	0.0041	6.48	11.24	14.77	11.83	14.77	11.83
VANO 9	9.60	10.00	1130.68	499.51	1536.01	1040.92	65.57	16.07	5900.00	0.0041	2.03	9.05	60.37	14.79	5900.00	0.0041	6.24	10.51	14.77	11.83	14.77	11.83
VANO 9	9.60	11.00	1130.68	499.51	1536.01	1040.92	65.57	16.07	5900.00	0.0041	2.03	9.05	60.37	14.79	5900.00	0.0041	6.24	10.51	14.77	11.83	14.77	11.83
VANO 9	10.80	12.00	1030.10	474.16	1476.82	955.64	59.74	14.64	5900.00	0.0041	1.92	8.28	55.42	13.58	5900.00	0.0041	5.99	9.79	14.77	11.83	14.77	11.83
VANO 9	12.00	13.00	930.46	449.04	1419.56	870.26	53.96	13.22	5900.00	0.0041	1.82	7.52	50.47	12.37	5900.00	0.0041	5.76	9.06	14.77	11.83	14.77	11.83
VANO 9	13.20	14.00	831.83	424.14	1364.22	784.80	48.24	11.82	5900.00	0.0041	1.72	6.77	45.51	11.15	5900.00	0.0041	5.54	8.34	14.77	11.83	14.77	11.83
VANO 9	14.40	15.00	734.22	399.46	1310.90	699.25	42.58	10.43	5900.00	0.0041	1.62	6.03	40.55	9.94	5900.00	0.0041	5.32	7.63	14.77	11.83	14.77	11.83
VANO 9	14.40	16.00	717.28	399.46	1310.90	682.31	41.60	10.19	5900.00	0.0041	1.62	5.91	39.57	9.69	5900.00	0.0041	5.32	7.51	14.77	11.83	14.77	11.83
VANO 9	15.60	17.00	620.74	375.01	1259.32	596.69	36.00	8.82	5900.00	0.0041	1.52	5.17	34.60	8.48	5900.00	0.0041	5.11	6.79	14.77	11.83	14.77	11.83
VANO 9	16.80	18.00	525.30	350.79	1209.93	511.01	30.46	7.46	5900.00	0.0041	1.42	4.44	29.64	7.26	5900.00	0.0041	4.91	6.09	14.77	11.83	14.77	11.83
VANO 9	18.00	19.00	430.99	326.79	1165.35	425.27	25.00	6.12	5900.00	0.0041	1.33	3.73	24.66	6.04	5900.00	0.0041	4.73	5.39	14.77	11.83	14.77	11.83
VANO 9	19.20	20.00	489.77	177.07	1122.79	339.48	28.40	6.96	5900.00	0.0041	0.72	3.84	19.69	4.82	5900.00	0.0041	4.56	4.69	14.77	11.83	14.77	11.83
VANO 9	19.20	21.00	489.77	177.07	1122.79	339.48	28.40	6.96	5900.00	0.0041	0.72	3.84	19.69	4.82	5900.00	0.0041	4.56	4.69	14.77	11.83	14.77	11.83
VANO 9	20.40	22.00	567.43	166.70	1083.34	253.66	32.91	8.06	5900.00	0.0041	0.68	4.37	14.71	3.60	5900.00	0.0041	4.40	4.00	14.77	11.83	14.77	11.83
VANO 9	21.60	23.00	646.40	156.32	1049.11	167.81	37.49	9.18	5900.00	0.0041	0.63	4.91	9.73	2.38	5900.00	0.0041	4.26	3.32	14.77	11.83	14.77	11.83
VANO 9	22.80	24.00	726.69	145.95	1024.04	82.85	42.14	10.33	5900.00	0.0041	0.59	5.46	4.81	1.18	5900.00	0.0041	4.16	2.67	14.77	11.83	14.77	11.83
VANO 9	24.00	25.00	399.83	135.57	1050.35	4.40	23.19	5.68	5900.00	0.0041	0.55	3.12	0.26	0.06	5900.00	0.0041	4.26	2.16	14.77	11.83	14.77	11.83
VANO 9	24.00	26.00	399.83	135.57	1050.35	4.40	23.19	5.68	5900.00	0.0041	0.55	3.12	0.26	0.06	5900.00	0.0041	4.26	2.16	14.77	11.83	14.77	11.83
VANO 9	25.20	27.00	711.62	187.04	1087.37	90.08	41.27	10.11	5900.00	0.0041	0.76	5.44	5.22	1.28	5900.00	0.0041	4.42	2.85	14.77	11.83	14.77	11.83
VANO 9	26.40	28.00	631.31	164.70	1127.12	175.95	36.61	8.97	5900.00	0.0041	0.67	4.82	10.20	2.50	5900.00	0.0041	4.58	3.54	14.77	11.83	14.77	11.83
VANO 9	27.60	29.00	552.32	142.63	1168.70	261.80	32.03	7.85	5900.00	0.0041	0.58	4.21	15.18	3.72	5900.00	0.0041	4.74	4.23	14.77	11.83	14.77	11.83
VANO 9	28.80	30.00	474.65	120.83	1212.12	347.62	27.53	6.74	5900.00	0.0041	0.49	3.62	20.16	4.94	5900.00	0.0041	4.92	4.93	14.77	11.83	14.77	11.83
VANO 9	28.80	31.00	474.65	120.83	1212.12	347.62	27.53	6.74	5900.00	0.0041	0.49	3.62	20.16	4.94	5900.00	0.0041	4.92	4.93	14.77	11.83	14.77	11.83
VANO 9	30.00	32.00	441.60	111.38	1258.07	433.40	25.61	6.27	5900.00	0.0041	0.45	3.36	25.13	6.16	5900.00	0.0041	5.11	5.63	14.77	11.83	14.77	11.83
VANO 9	31.20	33.00	535.90	124.89	1305.35	519.14	31.08	7.61	5900.00	0.0041	0.51	4.06	30.11	7.38	5900.00	0.0041	5.30	6.34	14.77	11.83	14.77	11.83
VANO 9	32.40	34.00	631.32	143.44	1355.36	604.82	36.61	8.97	5900.00	0.0041	0.58	4.78	35.08	8.59	5900.00	0.0041	5.50	7.05	14.77	11.83	14.77	11.83
VANO 9	33.60	35.00	727.84	163.77	1407.19	690.44	42.21	10.34	5900.00	0.0041	0.66	5.50	40.04	9.81	5900.00	0.0041	5.71	7.76	14.77	11.83	14.77	11.83
VANO 9	33.60	36.00	727.84	163.77	1407.19	690.44	42.21	10.34	5900.00	0.0041	0.66	5.50	40.04	9.81	5900.00	0.0041	5.71	7.76	14.77	11.83	14.77	11.83
VANO 9	34.80	37.00	825.43	184.39	1460.76	775.98	47.87	11.73	5900.00	0.0041	0.75	6.24	45.00	11.03	5900.00	0.0041	5.93	8.48	14.77	11.83	14.77	11.83
VANO 9	36.00	38.00	924.05	205.23	1516.35	861.45	53.59	13.13	5900.00	0.0041	0.83	6.98	49.96	12.24	5900.00	0.0041	6.15	9.20	14.77	11.83	14.77	11.83
VANO 9	37.20	39.00	1023.67	226.30	1573.96	946.82	59.37	14.54	5900.00	0.0041	0.92	7.73	54.91	13.45	5900.00	0.0041	6.39	9.92	14.77	11.83	14.77	11.83
VANO 9	38.40	40.00	1124.25	247.59	1633.01	1032.11	65.20	15.97	5900.00	0.0041	1.01	8.49	59.86	14.66	5900.00	0.0041	6.63	10.65	14.77	11.83	14.77	11.83
VANO 9	38.40	41.00	1124.25	247.59	1633.01	1032.11	65.20	15.97	5900.00	0.0041	1.01	8.49	59.86	14.66	5900.00	0.0041	6.63	10.65	14.77	11.83	14.77	11.83
VANO 9	39.60	42.00	1225.73	269.50	1694.18	1117.29	71.09	17.42	5900.00	0.0041	1.09	9.25	64.80	15.88	5900.00	0.0041	6.88	11.38	14.77	11.83	14.77	11.83
VANO 9	40.80	43.00	1328.09	292.13	1757.48	1202.36	77.02	18.87	5900.00	0.0041	1.19	10.03	69.73	17.08	5900.00	0.0041	7.13	12.11	14.77	11.83	14.77	12.11
VANO 9	42.00	44.00	1431.26	314.99	1822.60	1287.33	83.01	20.34	5900.00	0.0041	1.28	10.81	74.66	18.29	5900.00	0.0041	7.40	12.84	14.77	11.83	14.77	12.84
VANO 9	43.20	45.00	1535.21	338.08	1889.46	1372.17	89.03	21.81	5900.00	0.0041	1.37	11.59	79.58	19.50	5900.00	0.0041	7.67	13.58	14.77	11.83	14.77	13.58
VANO 9	43.20	46.00	1535.21	338.08	1889.46	1372.17	89.03	21.81	5900.00	0.0041	1.37	11.59	79.58	19.50	5900.00	0.0041	7.67	13.58	14.77	11.83	14.77	13.58
VANO 9	44.40	47.00	1639.87	361.39	1958.64	1456.90	95.10	23.30	5900.00	0.0041	1.47	12.38	84.49	20.70	5900.00	0.0041	7.95	14.33	14.77	11.83	14.77	14.33
VANO 9	45.60	48.00	1745.20	384.93	2029.14	1541.49	101.21	24.80	5900.00	0.0041	1.56	13.18	89.40	21.90	5900.00	0.0041	8.24	15.07	14.77	11.83	15.07	15.07
VANO 9	46.80	49.00	1851.13	408.69	2102.78	1625.96	107.36	26.30	5900.00	0.0041	1.66	13.98	94.30	23.10	5900.00	0.0041	8.53	15.82	14.77	11.83	15.82	15.82
VANO 9	48.00	50.00	2366.13	432.68	2177.41	1710.30	137.22	33.62	5900.00	0.0041	1.76	17.69	99.19	24.30	5900.00	0.0041	8.84	16.57	14.77	11.83	17.69	17.69
VANO 10	0.00	1.00	2316.53	710.45	2116.78	1713.85	134.35	32.91	5900.00	0.0041	2.88	17.90	99.39	24.35	5900.00	0.0041	8.59	16.47	14.77	11.83	17.90	17.90
VANO 10	1.20	2.00	1801.53	683.29	2041.11	1629.51	104.48	25.60	5900.00	0.0041	2.77	14.19	94.50	23.15	5900.00	0.0041	8.29	15.72	14.77	11.83	15.72	15.72
VANO 10	2.40	3.00	1698.44	656.36	1969.55	1545.03	98.50	24.13	5900.00	0.0041	2.66	13.40	89.60	21.95	5900.00	0.0041	7.99	14.97	14.77	11.83	14.97	14.97
VANO 10	3.60	4.00	1605.64	629.66	1898.11	1460.43	93.12	22.81	5900.00	0.0041	2.56	12.68	84.70	20.75	5900.00	0.0041	7.71	14.23	14.77	11.83	14.77	14.23
VANO 10	4.80	5.00	1513.50	603.18	1829.69	1375.69	87.77	21.50	5900.00	0.0041	2.45	11.98	79.78	19.55	5900.00	0.0041	7.43	13.49	14.77	11.83	14.77	13.49
VANO 10	4.80	6.00	1513.50	603.18	1829.69	1375.69	87.77	21.50	5900.00	0.0041	2.45	11.98	79.78	19.55	5900.00	0.0041	7.43	13.49	14.77	11.83	14.77	13.49
VANO 10	6.00	7.00	1422.07	576.92	1763.69	1290.84	82.47	20.21	5900.00	0.0041	2.34	11.27	74.86	18.34	5900.00	0.0041	7.16	12.75	14.77	11.83	14.77	12.75
VANO 10	7.20	8.00	1331.41	550.89	1698.20	1205.87	77.21	18.92	5900.00	0.0041	2.24	10.58	69.93	17.13	5900.00	0.0041	6.89	12.01	14.77	11.83	14.77	12.01
VANO 10	8.40	9.00	1232.18	525.09	1635.24	1120.78	71.46	17.51	5900.00	0.0041	2.13	9.82	65.00	15.92	5900.00	0.0041	6.64	11.28	14.77	11.83	14.77	11.83
VANO 10	9.60	10.00	1130.68	499.51	1574.19	1035.59	65.57	16.07	5900.00	0.0041	2.03	9.05	60.06	14.71	5900.00	0.0041	6.39	10.55	14.77	11.83	14.77	11.83
VANO 10	9.60	11.00	1130.68	499.51	1574.19	1035.59	65.57	16.07	5900.00	0.0041	2.03	9.05	60.06	14.71	5900.00	0.0041	6.39	10.55	14.77	11.83	14.77	11.83
VANO 10	10.80	12.00	1030.10	474.16	1515.68	950.30	59.74	14.64	5900.00	0.0041	1.92	8.28	55.11	13.50	5900.00	0.0041	6.15	9.83	14.77	11.83	14.77	11.83
VANO 10	12.00	13.00	930.46	449.04	1457.55	864.92	53.96	13.22	5900.00	0.0041	1.82	7.52	50.16	12.29	5900.00	0.0041	5.92	9.10	14.77	11.83	14.77	11.83
VANO 10	13.20	14.00	831.83	424.14	1402.16	779.44	48.24	11.82	5900.00	0.0041	1.72	6.77	45.20	11.07	5900.00	0.0041	5.69	8.38	14.77	11.83	14.77	11.83
VANO 10	14.40	15.00	734.22	399.46	1349.19	693.89	42.58	10.43	5900.00	0.0041	1.62	6.03	40.24	9.86	5900.00	0.0041	5.48	7.67	14.77	11.83	14.77	11.83
VANO 10	14.40	16.00	717.28	399.46	1349.19	676.95	41.60	10.19	5900.00	0.0041	1.62	5.91	39.26	9.62	5900.00	0.0041	5.48	7.55	14.77	11.83	14.77	11.83
VANO 10	15.60	17.00	620.74	375.01	1297.53	591.32	36.00	8.82	5900.00	0.0041	1.52	5.17	34.29	8.40	5900.00	0.0041	5.27	6.83	14.77	11.83	14.77	11.83
VANO 10	16.80	18.00	525.30	350.79	1248.48	505.63	30.46	7.46	5900.00	0.0041	1.42	4.44	29.32	7.18	5900.00	0.0041	5.07	6.13	14.77	11.83	14.77	11.83
VANO 10	18.00	19.00	430.99	326.79	1203.80	419.89	25.00	6.12	5900.00	0.0041	1.33	3.73	24.35	5.97	5900.00	0.0041	4.89	5.43	14.77	11.83	14.77	11.83
VANO 10	19.20	20.00	489.77	177.07	1161.17	334.10	28.40	6.96	5900.00	0.0041	0.72	3.84	19.38	4.75	5900.00	0.0041	4.71	4.73	14.77	11.83	14.77	11.83
VANO 10	19.20	21.00	489.77	177.07	1161.17	334.10	28.40	6.96	5900.00	0.0041	0.72	3.84	19.38	4.75	5900.00	0.0041	4.71	4.73	14.77	11.83	14.77	11.83
VANO 10	20.40	22.00	567.43	166.70	1120.92	248.27	32.91	8.06	5900.00	0.0041	0.68	4.37	14.40	3.53	5900.00	0.0041	4.55	4.04	14.77	11.83	14.77	11.83
VANO 10	21.60	23.00	646.40	156.32	1085.17	162.41	37.49	9.18	5900.00	0.0041	0.63	4.91	9.42	2.31	5900.00	0.0041	4.40	3.36	14.77	11.83	14.77	11.83
VANO 10	22.80	24.00	726.69	145.95	1056.79	77.40	42.14	10.33	5900.00	0.0041	0.59	5.46	4.49	1.10	5900.00	0.0041	4.29	2.69	14.77	11.83	14.77	11.83
VANO 10	24.00	25.00	399.83	135.57	1081.32	9.42	23.19	5.68	5900.00	0.0041	0.55	3.12	0.55	0.13	5900.00	0.0041	4.39	2.26	14.77	11.83	14.77	11.83
VANO 10	24.00	26.00	399.83	135.57	1081.32	9.42	23.19	5.68	5900.00	0.0041	0.55	3.12	0.55	0.13	5900.00	0.0041	4.39	2.26	14.77	11.83	14.77	11.83
VANO 10	25.20	27.00	711.62	187.04	1118.31	95.30	41.27	10.11	5900.00	0.0041	0.76	5.44	5.53	1.35	5900.00	0.0041	4.54	2.95	14.77	11.83	14.77	11.83
VANO 10	26.40	28.00	631.31	164.70	1157.44	181.18	36.61	8.97	5900.00	0.0041	0.67	4.82	10.51	2.57	5900.00	0.0041	4.70	3.64	14.77	11.83	14.77	11.83
VANO 10	27.60	29.00	552.32	142.63	1198.63	267.03	32.03	7.85	5900.00	0.0041	0.58	4.21	15.49	3.79	5900.00	0.0041	4.87	4.33	14.77	11.83	14.77	11.83
VANO 10	28.80	30.00	474.65	120.83	1242.05	352.86	27.53	6.74	5900.00	0.0041	0.49	3.62	20.46	5.01	5900.00	0.0041	5.04	5.03	14.77	11.83	14.77	11.83
VANO 10	28.80	31.00	474.65	120.83	1242.05	352.86	27.53	6.74	5900.00	0.0041	0.49	3.62	20.46	5.01	5900.00	0.0041	5.04	5.03	14.77	11.83	14.77	11.83
VANO 10	30.00	32.00	441.60	111.38	1287.55	438.65	25.61	6.27	5900.00	0.0041	0.45	3.36	25.44	6.23	5900.00	0.0041	5.23	5.73	14.77	11.83	14.77	11.83
VANO 10	31.20	33.00	535.90	124.89	1335.03	524.39	31.08	7.61	5900.00	0.0041	0.51	4.06	30.41	7.45	5900.00	0.0041	5.42	6.44	14.77	11.83	14.77	11.83
VANO 10	32.40	34.00	631.32	143.44	1384.57	610.08	36.61	8.97	5900.00	0.0041	0.58	4.78	35.38	8.67	5900.00	0.0041	5.62	7.14	14.77	11.83	14.77	11.83
VANO 10	33.60	35.00	727.84	163.77	1435.85	695.70	42.21	10.34	5900.00	0.0041	0.66	5.50	40.35	9.88	5900.00	0.0041	5.83	7.86	14.77	11.83	14.77	11.83
VANO 10	33.60	36.00	727.84	163.77	1435.85	695.70	42.21	10.34	5900.00	0.0041	0.66	5.50	40.35	9.88	5900.00	0.0041	5.83	7.86	14.77	11.83	14.77	11.83
VANO 10	34.80	37.00	825.43	184.39	1489.12	781.25	47.87	11.73	5900.00	0.0041	0.75	6.24	45.31	11.10	5900.00	0.0041	6.04	8.57	14.77	11.83	14.77	11.83
VANO 10	36.00	38.00	924.05	205.23	1544.31	866.72	53.59	13.13	5900.00	0.0041	0.83	6.98	50.27	12.31	5900.00	0.0041	6.27	9.29	14.77	11.83	14.77	11.83
VANO 10	37.20	39.00	1023.67	226.30	1601.42	952.11	59.37	14.54	5900.00	0.0041	0.92	7.73	55.22	13.53	5900.00	0.0041	6.50	10.01	14.77	11.83	14.77	11.83
VANO 10	38.40	40.00	1124.25	247.59	1660.45	1037.39	65.20	15.97	5900.00	0.0041	1.01	8.49	60.16	14.74	5900.00	0.0041	6.74	10.74	14.77	11.83	14.77	11.83
VANO 10	38.40	41.00	1124.25	247.59	1660.45	1037.39	65.20	15.97	5900.00	0.0041	1.01	8.49	60.16	14.74	5900.00	0.0041	6.74	10.74	14.77	11.83	14.77	11.83
VANO 10	39.60	42.00	1225.73	269.50	1721.40	1122.58	71.09	17.42	5900.00	0.0041	1.09	9.25	65.10	15.95	5900.00	0.0041	6.99	11.47	14.77	11.83	14.77	11.83
VANO 10	40.80	43.00	1328.09	292.13	1784.23	1207.66	77.02	18.87	5900.00	0.0041	1.19	10.03	70.04	17.16	5900.00	0.0041	7.24	12.20	14.77	11.83	14.77	12.20
VANO 10	42.00	44.00	1431.26	314.99	1849.04	1292.63	83.01	20.34	5900.00	0.0041	1.28	10.81	74.97	18.37	5900.00	0.0041	7.51	12.94	14.77	11.83	14.77	12.94
VANO 10	43.20	45.00	1535.21	338.08	1915.75	1377.48	89.03	21.81	5900.00	0.0041	1.37	11.59	79.89	19.57	5900.00	0.0041	7.78	13.67	14.77	11.83	14.77	13.67
VANO 10	43.20	46.00	1535.21	338.08	1915.75	1377.48	89.03	21.81	5900.00	0.0041	1.37	11.59	79.89	19.57	5900.00	0.0041	7.78	13.67	14.77	11.83	14.77	13.67
VANO 10	44.40	47.00	1639.87	361.39	1984.31	1462.20	95.10	23.30	5900.00	0.0041	1.47	12.38	84.80	20.78	5900.00	0.0041	8.05	14.42	14.77	11.83	14.77	14.42
VANO 10	45.60	48.00	1745.20	384.93	2054.99	1546.80	101.21	24.80	5900.00	0.0041	1.56	13.18	89.71	21.98	5900.00	0.0041	8.34	15.16	14.77	11.83	15.16	15.16
VANO 10	46.80	49.00	1851.13	408.69	2127.30	1631.28	107.36	26.30	5900.00	0.0041	1.66	13.98	94.60	23.18	5900.00	0.0041	8.64	15.91	14.77	11.83	15.91	15.91

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14 Variables	
Nº CORDON	25	19	19
ROTURA TE	28.5	21.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR EN ZONA CENTRAL

CARACT. RASANTE		CARACTERISTICAS TORSOR			
M est (S6)=	1.16	fyd armad =	40816.3	Ae =	20.67
Inercia XX =	20.0	fck (t/m2) =	4081.6	he =	0.25
fyd cercos =	40816	fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1	cotg tetha =	1.46	Ap=	0.0342
K rasant =	0.058	Beta comp=	1.44	K tors Tu3 =	1.526
Canto sec=	0.33	K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

			Hipótesis max cortante		Hipótesis max torsor		ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC					ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC					FLEXIÓN TRANS		ARMADO DEFINITIV	
							Dos caras				Una cara	Dos caras				Una cara				
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 11	0.00	1.00	2316.53	710.45	2046.18	1722.87	134.35	32.91	5900.00	0.0041	2.88	17.90	99.92	24.48	5900.00	0.0041	8.31	16.39	14.77	11.83	17.90	17.90
VANO 11	1.20	2.00	1801.53	683.29	1971.67	1638.53	104.48	25.60	5900.00	0.0041	2.77	14.19	95.03	23.28	5900.00	0.0041	8.00	15.64	14.77	11.83	15.64	15.64
VANO 11	2.40	3.00	1698.44	656.36	1899.08	1554.05	98.50	24.13	5900.00	0.0041	2.66	13.40	90.13	22.08	5900.00	0.0041	7.71	14.89	14.77	11.83	14.89	14.89
VANO 11	3.60	4.00	1605.64	629.66	1828.42	1469.45	93.12	22.81	5900.00	0.0041	2.56	12.68	85.22	20.88	5900.00	0.0041	7.42	14.15	14.77	11.83	14.77	14.15
VANO 11	4.80	5.00	1513.50	603.18	1759.69	1384.72	87.77	21.50	5900.00	0.0041	2.45	11.98	80.31	19.67	5900.00	0.0041	7.14	13.41	14.77	11.83	14.77	13.41
VANO 11	4.80	6.00	1513.50	603.18	1759.69	1384.72	87.77	21.50	5900.00	0.0041	2.45	11.98	80.31	19.67	5900.00	0.0041	7.14	13.41	14.77	11.83	14.77	13.41
VANO 11	6.00	7.00	1422.07	576.92	1692.18	1299.87	82.47	20.21	5900.00	0.0041	2.34	11.27	75.38	18.47	5900.00	0.0041	6.87	12.67	14.77	11.83	14.77	12.67
VANO 11	7.20	8.00	1331.41	550.89	1627.99	1214.90	77.21	18.92	5900.00	0.0041	2.24	10.58	70.46	17.26	5900.00	0.0041	6.61	11.94	14.77	11.83	14.77	11.94
VANO 11	8.40	9.00	1232.18	525.09	1565.03	1129.81	71.46	17.51	5900.00	0.0041	2.13	9.82	65.52	16.05	5900.00	0.0041	6.35	11.20	14.77	11.83	14.77	11.83
VANO 11	9.60	10.00	1130.68	499.51	1506.42	1044.63	65.57	16.07	5900.00	0.0041	2.03	9.05	60.58	14.84	5900.00	0.0041	6.11	10.48	14.77	11.83	14.77	11.83
VANO 11	9.60	11.00	1130.68	499.51	1506.42	1044.63	65.57	16.07	5900.00	0.0041	2.03	9.05	60.58	14.84	5900.00	0.0041	6.11	10.48	14.77	11.83	14.77	11.83
VANO 11	10.80	12.00	1030.10	474.16	1450.07	959.34	59.74	14.64	5900.00	0.0041	1.92	8.28	55.64	13.63	5900.00	0.0041	5.89	9.76	14.77	11.83	14.77	11.83
VANO 11	12.00	13.00	930.46	449.04	1396.03	873.95	53.96	13.22	5900.00	0.0041	1.82	7.52	50.68	12.42	5900.00	0.0041	5.67	9.04	14.77	11.83	14.77	11.83
VANO 11	13.20	14.00	831.83	424.14	1343.97	788.48	48.24	11.82	5900.00	0.0041	1.72	6.77	45.73	11.20	5900.00	0.0041	5.45	8.33	14.77	11.83	14.77	11.83
VANO 11	14.40	15.00	734.22	399.46	1293.46	702.93	42.58	10.43	5900.00	0.0041	1.62	6.03	40.77	9.99	5900.00	0.0041	5.25	7.62	14.77	11.83	14.77	11.83
VANO 11	14.40	16.00	717.28	399.46	1293.46	685.99	41.60	10.19	5900.00	0.0041	1.62	5.91	39.78	9.75	5900.00	0.0041	5.25	7.50	14.77	11.83	14.77	11.83
VANO 11	15.60	17.00	620.74	375.01	1245.81	600.36	36.00	8.82	5900.00	0.0041	1.52	5.17	34.82	8.53	5900.00	0.0041	5.06	6.79	14.77	11.83	14.77	11.83
VANO 11	16.80	18.00	525.30	350.79	1200.24	514.67	30.46	7.46	5900.00	0.0041	1.42	4.44	29.85	7.31	5900.00	0.0041	4.87	6.09	14.77	11.83	14.77	11.83
VANO 11	18.00	19.00	430.99	326.79	1159.17	428.93	25.00	6.12	5900.00	0.0041	1.33	3.73	24.88	6.09	5900.00	0.0041	4.71	5.40	14.77	11.83	14.77	11.83
VANO 11	19.20	20.00	489.77	177.07	1124.11	343.13	28.40	6.96	5900.00	0.0041	0.72	3.84	19.90	4.88	5900.00	0.0041	4.56	4.72	14.77	11.83	14.77	11.83
VANO 11	19.20	21.00	489.77	177.07	1124.11	343.13	28.40	6.96	5900.00	0.0041	0.72	3.84	19.90	4.88	5900.00	0.0041	4.56	4.72	14.77	11.83	14.77	11.83
VANO 11	20.40	22.00	567.43	166.70	1091.28	257.31	32.91	8.06	5900.00	0.0041	0.68	4.37	14.92	3.66	5900.00	0.0041	4.43	4.04	14.77	11.83	14.77	11.83
VANO 11	21.60	23.00	646.40	156.32	1072.29	173.29	37.49	9.18	5900.00	0.0041	0.63	4.91	10.05	2.46	5900.00	0.0041	4.35	3.41	14.77	11.83	14.77	11.83
VANO 11	22.80	24.00	726.69	145.95	1088.53	86.52	42.14	10.33	5900.00	0.0041	0.59	5.46	5.02	1.23	5900.00	0.0041	4.42	2.82	14.77	11.83	14.77	11.83
VANO 11	24.00	25.00	399.83	135.57	1119.14	1.70	23.19	5.68	5900.00	0.0041	0.55	3.12	0.10	0.02	5900.00	0.0041	4.55	2.28	14.77	11.83	14.77	11.83
VANO 11	24.00	26.00	399.83	135.57	1119.14	1.70	23.19	5.68	5900.00	0.0041	0.55	3.12	0.10	0.02	5900.00	0.0041	4.55	2.28	14.77	11.83	14.77	11.83
VANO 11	25.20	27.00	711.62	187.04	1156.13	86.22	41.27	10.11	5900.00	0.0041	0.76	5.44	5.00	1.23	5900.00	0.0041	4.70	2.96	14.77	11.83	14.77	11.83
VANO 11	26.40	28.00	631.31	164.70	1196.05	172.09	36.61	8.97	5900.00	0.0041	0.67	4.82	9.98	2.45	5900.00	0.0041	4.86	3.65	14.77	11.83	14.77	11.83
VANO 11	27.60	29.00	552.32	142.63	1237.41	257.95	32.03	7.85	5900.00	0.0041	0.58	4.21	14.96	3.67	5900.00	0.0041	5.02	4.34	14.77	11.83	14.77	11.83
VANO 11	28.80	30.00	474.65	120.83	1280.00	343.78	27.53	6.74	5900.00	0.0041	0.49	3.62	19.94	4.88	5900.00	0.0041	5.20	5.04	14.77	11.83	14.77	11.83
VANO 11	28.80	31.00	474.65	120.83	1280.00	343.78	27.53	6.74	5900.00	0.0041	0.49	3.62	19.94	4.88	5900.00	0.0041	5.20	5.04	14.77	11.83	14.77	11.83
VANO 11	30.00	32.00	441.60	111.38	1326.51	429.57	25.61	6.27	5900.00	0.0041	0.45	3.36	24.91	6.10	5900.00	0.0041	5.38	5.74	14.77	11.83	14.77	11.83
VANO 11	31.20	33.00	535.90	124.89	1374.96	515.32	31.08	7.61	5900.00	0.0041	0.51	4.06	29.89	7.32	5900.00	0.0041	5.58	6.45	14.77	11.83	14.77	11.83
VANO 11	32.40	34.00	631.32	143.44	1423.13	601.01	36.61	8.97	5900.00	0.0041	0.58	4.78	34.85	8.54	5900.00	0.0041	5.78	7.16	14.77	11.83	14.77	11.83
VANO 11	33.60	35.00	727.84	163.77	1475.23	686.63	42.21	10.34	5900.00	0.0041	0.66	5.50	39.82	9.76	5900.00	0.0041	5.99	7.87	14.77	11.83	14.77	11.83
VANO 11	33.60	36.00	727.84	163.77	1475.23	686.63	42.21	10.34	5900.00	0.0041	0.66	5.50	39.82	9.76	5900.00	0.0041	5.99	7.87	14.77	11.83	14.77	11.83
VANO 11	34.80	37.00	825.43	184.39	1528.65	772.18	47.87	11.73	5900.00	0.0041	0.75	6.24	44.78	10.97	5900.00	0.0041	6.21	8.59	14.77	11.83	14.77	11.83
VANO 11	36.00	38.00	924.05	205.23	1584.00	857.66	53.59	13.13	5900.00	0.0041	0.83	6.98	49.74	12.19	5900.00	0.0041	6.43	9.31	14.77	11.83	14.77	11.83
VANO 11	37.20	39.00	1023.67	226.30	1641.27	943.04	59.37	14.54	5900.00	0.0041	0.92	7.73	54.69	13.40	5900.00	0.0041	6.66	10.03	14.77	11.83	14.77	11.83
VANO 11	38.40	40.00	1124.25	247.59	1700.47	1028.33	65.20	15.97	5900.00	0.0041	1.01	8.49	59.64	14.61	5900.00	0.0041	6.90	10.76	14.77	11.83	14.77	11.83
VANO 11	38.40	41.00	1124.25	247.59	1700.47	1028.33	65.20	15.97	5900.00	0.0041	1.01	8.49	59.64	14.61	5900.00	0.0041	6.90	10.76	14.77	11.83	14.77	11.83
VANO 11	39.60	42.00	1225.73	269.50	1761.60	1113.52	71.09	17.42	5900.00	0.0041	1.09	9.25	64.58	15.82	5900.00	0.0041	7.15	11.49	14.77	11.83	14.77	11.83
VANO 11	40.80	43.00	1328.09	292.13	1824.64	1198.60	77.02	18.87	5900.00	0.0041	1.19	10.03	69.51	17.03	5900.00	0.0041	7.41	12.22	14.77	11.83	14.77	12.22
VANO 11	42.00	44.00	1431.26	314.99	1889.62	1283.57	83.01	20.34	5900.00	0.0041	1.28	10.81	74.44	18.24	5900.00	0.0041	7.67	12.95	14.77	11.83	14.77	12.95
VANO 11	43.20	45.00	1535.21	338.08	1956.52	1368.43	89.03	21.81	5900.00	0.0041	1.37	11.59	79.36	19.44	5900.00	0.0041	7.94	13.69	14.77	11.83	14.77	13.69
VANO 11	43.20	46.00	1535.21	338.08	1956.52	1368.43	89.03	21.81	5900.00	0.0041	1.37	11.59	79.36	19.44	5900.00	0.0041	7.94	13.69	14.77	11.83	14.77	13.69
VANO 11	44.40	47.00	1639.87	361.39	2025.34	1453.16	95.10	23.30	5900.00	0.0041	1.47	12.38	84.28	20.65	5900.00	0.0041	8.22	14.43	14.77	11.83	14.77	14.43
VANO 11	45.60	48.00	1745.20	384.93	2096.09	1537.76	101.21	24.80	5900.00	0.0041	1.56	13.18	89.18	21.85	5900.00	0.0041	8.51	15.18	14.77	11.83	15.18	15.18
VANO 11	46.80	49.00	1851.13	408.69	2168.77	1622.24	107.36	26.30	5900.00	0.0041	1.66	13.98	94.08	23.05	5900.00	0.0041	8.80	15.93	14.77	11.83	15.93	15.93
VANO 11	48.00	50.00	2366.13	432.68	2243.37	1706.58	137.22	33.62	5900.00	0.0041	1.76	17.69	98.97	24.25	5900.00	0.0041	9.11	16.66	14.77	11.83	17.69	17.69
VANO 12	0.00	1.00	2316.53	710.45	2093.30	1716.19	134.35	32.91	5900.00	0.0041	2.88	17.90	99.53	24.38	5900.00	0.0041	8.50	16.44	14.77	11.83	17.90	17.90
VANO 12	1.20	2.00	1801.53	683.29	2018.23	1631.85	104.48	25.60	5900.00	0.0041	2.77	14.19	94.64	23.19	5900.00	0.0041	8.19	15.69	14.77	11.83	15.69	15.69
VANO 12	2.40	3.00	1698.44	656.36	1945.15	1547.38	98.50	24.13	5900.00	0.0041	2.66	13.40	89.74	21.99	5900.00	0.0041	7.90	14.94	14.77	11.83	14.94	14.94
VANO 12	3.60	4.00	1605.64	629.66	1874.00	1462.78	93.12	22.81	5900.00	0.0041	2.56	12.68	84.83	20.78	5900.00	0.0041	7.61	14.20	14.77	11.83	14.77	14.20
VANO 12	4.80	5.00	1513.50	603.18	1804.78	1378.05	87.77	21.50	5900.00	0.0041	2.45	11.98	79.92	19.58	5900.00	0.0041	7.33	13.45	14.77	11.83	14.77	13.45
VANO 12	4.80	6.00	1513.50	603.18	1804.78	1378.05	87.77	21.50	5900.00	0.0041	2.45	11.98	79.92	19.58	5900.00	0.0041	7.33	13.45	14.77	11.83	14.77	13.45
VANO 12	6.00	7.00	1422.07	576.92	1737.50	1293.20	82.47	20.21	5900.00	0.0041	2.34	11.27	75.00	18.37	5900.00	0.0041	7.05	12.71	14.77	11.83	14.77	12.71
VANO 12	7.20	8.00	1331.41	550.89	1672.13	1208.23	77.21	18.92	5900.00	0.0041	2.24	10.58	70.07	17.17	5900.00	0.0041	6.79	11.98	14.77	11.83	14.77	11.98
VANO 12	8.40	9.00	1232.18	525.09	1608.77	1123.15	71.46	17.51	5900.00	0.0041	2.13	9.82	65.14	15.96	5900.00	0.0041	6.53	11.24	14.77	11.83	14.77	11.83
VANO 12	9.60	10.00	1130.68	499.51	1547.31	1037.96	65.57	16.07	5900.00	0.0041	2.03	9.05	60.20	14.75	5900.00	0.0041	6.28	10.51	14.77	11.83	14.77	11.83
VANO 12	9.60	11.00	1130.68	499.51	1547.31	1037.96	65.57	16.07	5900.00	0.0041	2.03	9.05	60.20	14.75	5900.00	0.0041	6.28	10.51	14.77	11.83	14.77	11.83
VANO 12	10.80	12.00	1030.10	474.16	1487.83	952.67	59.74	14.64	5900.00	0.0041	1.92	8.28	55.25	13.54	5900.00	0.0041	6.04	9.79	14.77	11.83	14.77	11.83
VANO 12	12.00	13.00	930.46	449.04	1430.22	867.29	53.96	13.22	5900.00	0.0041	1.82	7.52	50.30	12.32	5900.00	0.0041	5.81	9.06	14.77	11.83	14.77	11.83
VANO 12	13.20	14.00	831.83	424.14	1374.53	781.81	48.24	11.82	5900.00	0.0041	1.72	6.77	45.34	11.11	5900.00	0.0041	5.58	8.34	14.77	11.83	14.77	11.83
VANO 12	14.40	15.00	734.22	399.46	1320.93	696.26	42.58	10.43	5900.00	0.0041	1.62	6.03	40.38	9.89	5900.00	0.0041	5.36	7.63	14.77	11.83	14.77	11.83
VANO 12	14.40	16.00	717.28	399.46	1320.93	679.32	41.60	10.19	5900.00	0.0041	1.62	5.91	39.40	9.65	5900.00	0.0041	5.36	7.51	14.77	11.83	14.77	11.83
VANO 12	15.60	17.00	620.74	375.01	1269.15	593.70	36.00	8.82	5900.00	0.0041	1.52	5.17	34.43	8.44	5900.00	0.0041	5.15	6.79	14.77	11.83	14.77	11.83
VANO 12	16.80	18.00	525.30	350.79	1219.31	508.01	30.46	7.46	5900.00	0.0041	1.42	4.44	29.46	7.22	5900.00	0.0041	4.95	6.08	14.77	11.83	14.77	11.83
VANO 12	18.00	19.00	430.99	326.79	1171.47	422.27	25.00	6.12	5900.00	0.0041	1.33	3.73	24.49	6.00	5900.00	0.0041	4.76	5.38	14.77	11.83	14.77	11.83
VANO 12	19.20	20.00	489.77	177.07	1125.61	336.48	28.40	6.96	5900.00	0.0041	0.72	3.84	19.51	4.78	5900.00	0.0041	4.57	4.68	14.77	11.83	14.77	11.83
VANO 12	19.20	21.00	489.77	177.07	1125.61	336.48	28.40	6.96	5900.00	0.0041	0.72	3.84	19.51	4.78	5900.00	0.0041	4.57	4.68	14.77	11.83	14.77	11.83
VANO 12	20.40	22.00	567.43	166.70	1081.97	250.65	32.91	8.06	5900.00	0.0041	0.68	4.37	14.54	3.56	5900.00	0.0041	4.39	3.98	14.77	11.83	14.77	11.83
VANO 12	21.60	23.00	646.40	156.32	1042.91	164.79	37.49	9.18	5900.00	0.0041	0.63	4.91	9.56	2.34	5900.00	0.0041	4.23	3.29	14.77	11.83	14.77	11.83
VANO 12	22.80	24.00	726.69	145.95	1007.26	78.92	42.14	10.33	5900.00	0.0041	0.59	5.46	4.58	1.12	5900.00	0.0041	4.09	2.61	14.77	11.83	14.77	11.83
VANO 12	24.00	25.00	399.83	135.57	1006.77	6.97	23.19	5.68	5900.00	0.0041	0.55	3.12	0.40	0.10	5900.00	0.0041	4.09	2.09	14.77	11.83	14.77	11.83
VANO 12	24.00	26.00	399.83	135.57	1006.77	6.97	23.19	5.68	5900.00	0.0041	0.55	3.12	0.40	0.10	5900.00	0.0041	4.09	2.09	14.77	11.83	14.77	11.83
VANO 12	25.20	27.00	711.62	187.04	1043.8	92.85	41.27	10.11	5900.00	0.0041	0.76	5.44	5.38	1.32	5900.00	0.0041	4.24	2.78	14.77	11.83	14.77	11.83
VANO 12	26.40	28.00	631.31	164.70	1082.99	178.73	36.61	8.97	5900.00	0.0041	0.67	4.82	10.37	2.54	5900.00	0.0041	4.40	3.47	14.77	11.83	14.77	11.83
VANO 12	27.60	29.00	552.32	142.63	1124.32	264.58	32.03	7.85	5900.00	0.0041	0.58	4.21	15.34	3.76	5900.00	0.0041	4.56	4.16	14.77	11.83	14.77	11.83
VANO 12	28.80	30.00	474.65	120.83	1167.80	350.41	27.53	6.74	5900.00	0.0041	0.49	3.62	20.32	4.98	5900.00	0.0041	4.74	4.86	14.77	11.83	14.77	11.83
VANO 12	28.80	31.00	474.65	120.83	1167.80	350.41	27.53	6.74	5900.00	0.0041	0.49	3.62	20.32	4.98	5900.00	0.0041	4.74	4.86	14.77	11.83	14.77	11.83
VANO 12	30.00	32.00	441.60	111.38	1213.43	436.20	25.61	6.27	5900.00	0.0041	0.45	3.36	25.30	6.20	5900.00	0.0041	4.93	5.56	14.77	11.83	14.77	11.83
VANO 12	31.20	33.00	535.90	124.89	1261.10	521.94	31.08	7.61	5900.00	0.0041	0.51	4.06	30.27	7.42	5900.00	0.0041	5.12	6.27	14.77	11.83	14.77	11.83
VANO 12	32.40	34.00	631.32	143.44	1310.72	607.63	36.61	8.97	5900.00	0.0041	0.58	4.78	35.24	8.63	5900.00	0.0041	5.32	6.98	14.77	11.83	14.77	11.83
VANO 12	33.60	35.00	727.84	163.77	1362.23	693.25	42.21	10.34	5900.00	0.0041	0.66	5.50	40.20	9.85	5900.00	0.0041	5.53	7.69	14.77	11.83	14.77	11.83
VANO 12	33.60	36.00	727.84	163.77	1362.23	693.25	42.21	10.34	5900.00	0.0041	0.66	5.50	40.20	9.85	5900.00	0.0041	5.53	7.69	14.77	11.83	14.77	11.83
VANO 12	34.80	37.00	825.43	184.39	1415.77	778.60	47.87	11.73	5900.00	0.0041	0.75	6.24	45.17	11.07	5900.00	0.0041	5.75	8.41	14.77	11.83	14.77	11.83
VANO 12	36.00	38.00	924.05	205.23	1471.27	864.27	53.59	13.13	5900.00	0.0041	0.83	6.98	50.12	12.28	5900.00	0.0041	5.97	9.13	14.77	11.83	14.77	11.83
VANO 12	37.20	39.00	1023.67	226.30	1528.56	949.65	59.37	14.54	5900.00	0.0041	0.92	7.73	55.07	13.49	5900.00	0.0041	6.20	9.85	14.77	11.83	14.77	11.83
VANO 12	38.40	40.00	1124.25	247.59	1587.90	1034.94	65.20	15.97	5900.00	0.0041	1.01	8.49	60.02	14.71	5900.00	0.0041	6.45	10.58	14.77	11.83	14.77	11.83
VANO 12	38.40	41.00	1124.25	247.59	1587.90	1034.94	65.20	15.97	5900.00	0.0041	1.01	8.49	60.02	14.71	5900.00	0.0041	6.45	10.58	14.77	11.83	14.77	11.83
VANO 12	39.60	42.00	1225.73	269.50	1649.16	1120.12	71.09	17.42	5900.00	0.0041	1.09	9.25	64.96	15.92	5900.00	0.0041	6.69	11.30	14.77	11.83	14.77	11.83
VANO 12	40.80	43.00	1328.09	292.13	1712.37	1205.20	77.02	18.87	5900.00	0.0041	1.19	10.03	69.89	17.12	5900.00	0.0041	6.95	12.04	14.77	11.83	14.77	12.04
VANO 12	42.00	44.00	1431.26	314.99	1777.51	1290.17	83.01	20.34	5900.00	0.0041	1.28	10.81	74.82	18.33	5900.00	0.0041	7.22	12.77	14.77	11.83	14.77	12.77
VANO 12	43.20	45.00	1535.21	338.08	1844.56	1375.02	89.03	21.81	5900.00	0.0041	1.37	11.59	79.74	19.54	5900.00	0.0041	7.49	13.51	14.77	11.83	14.77	13.51
VANO 12	43.20	46.00	1535.21	338.08	1844.56	1375.02	89.03	21.81	5900.00	0.0041	1.37	11.59	79.74	19.54	5900.00	0.0041	7.49	13.51	14.77	11.83	14.77	13.51
VANO 12	44.40	47.00	1639.87	361.39	1913.81	1459.75	95.10	23.30	5900.00	0.0041	1.47	12.38	84.66	20.74	5900.00	0.0041	7.77	14.25	14.77	11.83	14.77	14.25
VANO 12	45.60	48.00	1745.20	384.93	1984.58	1544.35	101.21	24.80	5900.00	0.0041	1.56	13.18	89.56	21.94	5900.00	0.0041	8.06	15.00	14.77	11.83	15.00	15.00
VANO 12	46.80	49.00	1851.13	408.69	2057.46	1628.82	107.36	26.30	5900.00	0.0041	1.66	13.98	94.46	23.14	5900.00	0.0041	8.35	15.75	14.77	11.83	15.75	15.75

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20 008	24.9687
ys	1 495	1 754
yi	2 505	2 246

PRETENSA Exterior

		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR EN ZONA CENTRAL

CARACT. RASANTE

M est (S6)=	1.18
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.058
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC | **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** | **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 13	0.00	1.00	2316.53	710.45	2174.8	1715.93	134.35	32.91	5900.00	0.0041	2.88	17.90	99.51	24.38	5900.00	0.0041	8.83	16.60	14.77	11.83	17.90	17.90
VANO 13	1.20	2.00	1801.53	683.29	2099.35	1631.58	104.48	25.60	5900.00	0.0041	2.77	14.19	94.62	23.18	5900.00	0.0041	8.52	15.85	14.77	11.83	15.85	15.85
VANO 13	2.40	3.00	1698.44	656.36	2027.14	1547.10	98.50	24.13	5900.00	0.0041	2.66	13.40	89.72	21.98	5900.00	0.0041	8.23	15.11	14.77	11.83	15.11	15.11
VANO 13	3.60	4.00	1605.64	629.66	1956.37	1462.50	93.12	22.81	5900.00	0.0041	2.56	12.68	84.82	20.78	5900.00	0.0041	7.94	14.36	14.77	11.83	14.77	14.36
VANO 13	4.80	5.00	1513.50	603.18	1887.61	1377.76	87.77	21.50	5900.00	0.0041	2.45	11.98	79.90	19.58	5900.00	0.0041	7.66	13.62	14.77	11.83	14.77	13.62
VANO 13	4.80	6.00	1513.50	603.18	1887.61	1377.76	87.77	21.50	5900.00	0.0041	2.45	11.98	79.90	19.58	5900.00	0.0041	7.66	13.62	14.77	11.83	14.77	13.62
VANO 13	6.00	7.00	1422.07	576.92	1820.69	1292.91	82.47	20.21	5900.00	0.0041	2.34	11.27	74.98	18.37	5900.00	0.0041	7.39	12.88	14.77	11.83	14.77	12.88
VANO 13	7.20	8.00	1331.41	550.89	1755.89	1207.93	77.21	18.92	5900.00	0.0041	2.24	10.58	70.05	17.16	5900.00	0.0041	7.13	12.14	14.77	11.83	14.77	12.14
VANO 13	8.40	9.00	1232.18	525.09	1692.02	1122.85	71.46	17.51	5900.00	0.0041	2.13	9.82	65.12	15.95	5900.00	0.0041	6.87	11.41	14.77	11.83	14.77	11.83
VANO 13	9.60	10.00	1130.68	499.51	1631.17	1037.65	65.57	16.07	5900.00	0.0041	2.03	9.05	60.18	14.74	5900.00	0.0041	6.62	10.68	14.77	11.83	14.77	11.83
VANO 13	9.60	11.00	1130.68	499.51	1631.17	1037.65	65.57	16.07	5900.00	0.0041	2.03	9.05	60.18	14.74	5900.00	0.0041	6.62	10.68	14.77	11.83	14.77	11.83
VANO 13	10.80	12.00	1030.10	474.16	1572.5	952.36	59.74	14.64	5900.00	0.0041	1.92	8.28	55.23	13.53	5900.00	0.0041	6.38	9.96	14.77	11.83	14.77	11.83
VANO 13	12.00	13.00	930.46	449.04	1514.15	866.97	53.96	13.22	5900.00	0.0041	1.82	7.52	50.28	12.32	5900.00	0.0041	6.15	9.23	14.77	11.83	14.77	11.83
VANO 13	13.20	14.00	831.83	424.14	1459.99	781.49	48.24	11.82	5900.00	0.0041	1.72	6.77	45.32	11.10	5900.00	0.0041	5.92	8.51	14.77	11.83	14.77	11.83
VANO 13	14.40	15.00	734.22	399.46	1406.14	695.94	42.58	10.43	5900.00	0.0041	1.62	6.03	40.36	9.89	5900.00	0.0041	5.71	7.80	14.77	11.83	14.77	11.83
VANO 13	14.40	16.00	717.28	399.46	1406.14	678.99	41.60	10.19	5900.00	0.0041	1.62	5.91	39.38	9.65	5900.00	0.0041	5.71	7.68	14.77	11.83	14.77	11.83
VANO 13	15.60	17.00	620.74	375.01	1354.63	593.36	36.00	8.82	5900.00	0.0041	1.52	5.17	34.41	8.43	5900.00	0.0041	5.50	6.96	14.77	11.83	14.77	11.83
VANO 13	16.80	18.00	525.30	350.79	1304.94	507.67	30.46	7.46	5900.00	0.0041	1.42	4.44	29.44	7.21	5900.00	0.0041	5.30	6.26	14.77	11.83	14.77	11.83
VANO 13	18.00	19.00	430.99	326.79	1257.27	421.92	25.00	6.12	5900.00	0.0041	1.33	3.73	24.47	5.99	5900.00	0.0041	5.10	5.55	14.77	11.83	14.77	11.83
VANO 13	19.20	20.00	489.77	177.07	1211.64	336.13	28.40	6.96	5900.00	0.0041	0.72	3.84	19.49	4.78	5900.00	0.0041	4.92	4.85	14.77	11.83	14.77	11.83
VANO 13	19.20	21.00	489.77	177.07	1211.64	336.13	28.40	6.96	5900.00	0.0041	0.72	3.84	19.49	4.78	5900.00	0.0041	4.92	4.85	14.77	11.83	14.77	11.83
VANO 13	20.40	22.00	567.43	166.70	1168.3	250.29	32.91	8.06	5900.00	0.0041	0.68	4.37	14.52	3.56	5900.00	0.0041	4.74	4.15	14.77	11.83	14.77	11.83
VANO 13	21.60	23.00	646.40	156.32	1126.7	164.43	37.49	9.18	5900.00	0.0041	0.63	4.91	9.54	2.34	5900.00	0.0041	4.57	3.46	14.77	11.83	14.77	11.83
VANO 13	22.80	24.00	726.69	145.95	1087.53	78.55	42.14	10.33	5900.00	0.0041	0.59	5.46	4.56	1.12	5900.00	0.0041	4.41	2.77	14.77	11.83	14.77	11.83
VANO 13	24.00	25.00	399.83	135.57	1050.33	7.36	23.19	5.68	5900.00	0.0041	0.55	3.12	0.43	0.10	5900.00	0.0041	4.26	2.18	14.77	11.83	14.77	11.83
VANO 13	24.00	26.00	399.83	135.57	1050.33	7.36	23.19	5.68	5900.00	0.0041	0.55	3.12	0.43	0.10	5900.00	0.0041	4.26	2.18	14.77	11.83	14.77	11.83
VANO 13	25.20	27.00	711.62	187.04	1053.10	93.23	41.27	10.11	5900.00	0.0041	0.76	5.44	5.41	1.32	5900.00	0.0041	4.27	2.80	14.77	11.83	14.77	11.83
VANO 13	26.40	28.00	631.31	164.70	1090.54	179.11	36.61	8.97	5900.00	0.0041	0.67	4.82	10.39	2.54	5900.00	0.0041	4.43	3.49	14.77	11.83	14.77	11.83
VANO 13	27.60	29.00	552.32	142.63	1132.4	264.97	32.03	7.85	5900.00	0.0041	0.58	4.21	15.37	3.76	5900.00	0.0041	4.60	4.18	14.77	11.83	14.77	11.83
VANO 13	28.80	30.00	474.65	120.83	1175.77	350.80	27.53	6.74	5900.00	0.0041	0.49	3.62	20.34	4.98	5900.00	0.0041	4.77	4.88	14.77	11.83	14.77	11.83
VANO 13	28.80	31.00	474.65	120.83	1175.77	350.80	27.53	6.74	5900.00	0.0041	0.49	3.62	20.34	4.98	5900.00	0.0041	4.77	4.88	14.77	11.83	14.77	11.83
VANO 13	30.00	32.00	441.60	111.38	1220.14	436.60	25.61	6.27	5900.00	0.0041	0.45	3.36	25.32	6.20	5900.00	0.0041	4.96	5.58	14.77	11.83	14.77	11.83
VANO 13	31.20	33.00	535.90	124.89	1268.73	522.35	31.08	7.61	5900.00	0.0041	0.51	4.06	30.29	7.42	5900.00	0.0041	5.15	6.29	14.77	11.83	14.77	11.83
VANO 13	32.40	34.00	631.32	143.44	1317.16	608.04	36.61	8.97	5900.00	0.0041	0.58	4.78	35.26	8.64	5900.00	0.0041	5.35	6.99	14.77	11.83	14.77	11.83
VANO 13	33.60	35.00	727.84	163.77	1369.10	693.67	42.21	10.34	5900.00	0.0041	0.66	5.50	40.23	9.86	5900.00	0.0041	5.56	7.71	14.77	11.83	14.77	11.83
VANO 13	33.60	36.00	727.84	163.77	1369.10	693.67	42.21	10.34	5900.00	0.0041	0.66	5.50	40.23	9.86	5900.00	0.0041	5.56	7.71	14.77	11.83	14.77	11.83
VANO 13	34.80	37.00	825.43	184.39	1422.68	779.22	47.87	11.73	5900.00	0.0041	0.75	6.24	45.19	11.07	5900.00	0.0041	5.77	8.42	14.77	11.83	14.77	11.83
VANO 13	36.00	38.00	924.05	205.23	1477.18	864.70	53.59	13.13	5900.00	0.0041	0.83	6.98	50.15	12.29	5900.00	0.0041	6.00	9.14	14.77	11.83	14.77	11.83
VANO 13	37.20	39.00	1023.67	226.30	1534.11	950.09	59.37	14.54	5900.00	0.0041	0.92	7.73	55.10	13.50	5900.00	0.0041	6.23	9.86	14.77	11.83	14.77	11.83
VANO 13	38.40	40.00	1124.25	247.59	1593.16	1035.38	65.20	15.97	5900.00	0.0041	1.01	8.49	60.05	14.71	5900.00	0.0041	6.47	10.59	14.77	11.83	14.77	11.83
VANO 13	38.40	41.00	1124.25	247.59	1593.16	1035.38	65.20	15.97	5900.00	0.0041	1.01	8.49	60.05	14.71	5900.00	0.0041	6.47	10.59	14.77	11.83	14.77	11.83
VANO 13	39.60	42.00	1225.73	269.50	1654.14	1120.57	71.09	17.42	5900.00	0.0041	1.09	9.25	64.99	15.92	5900.00	0.0041	6.72	11.32	14.77	11.83	14.77	11.83
VANO 13	40.80	43.00	1328.09	292.13	1717.55	1205.65	77.02	18.87	5900.00	0.0041	1.19	10.03	69.92	17.13	5900.00	0.0041	6.97	12.05	14.77	11.83	14.77	12.05
VANO 13	42.00	44.00	1431.26	314.99	1782.58	1290.62	83.01	20.34	5900.00	0.0041	1.28	10.81	74.85	18.34	5900.00	0.0041	7.24	12.79	14.77	11.83	14.77	12.79
VANO 13	43.20	45.00	1535.21	338.08	1849.14	1375.47	89.03	21.81	5900.00	0.0041	1.37	11.59	79.77	19.54	5900.00	0.0041	7.51	13.53	14.77	11.83	14.77	13.53
VANO 13	43.20	46.00	1535.21	338.08	1849.14	1375.47	89.03	21.81	5900.00	0.0041	1.37	11.59	79.77	19.54	5900.00	0.0041	7.51	13.53	14.77	11.83	14.77	13.53
VANO 13	44.40	47.00	1639.87	361.39	1918.63	1460.21	95.10	23.30	5900.00	0.0041	1.47	12.38	84.68	20.75	5900.00	0.0041	7.79	14.27	14.77	11.83	14.77	14.27
VANO 13	45.60	48.00	1745.20	384.93	1988.64	1544.81	101.21	24.80	5900.00	0.0041	1.56	13.18	89.59	21.95	5900.00	0.0041	8.07	15.01	14.77	11.83	15.01	15.01
VANO 13	46.80	49.00	1851.13	408.69	2061.18	1629.29	107.36	26.30	5900.00	0.0041	1.66	13.98	94.49	23.15	5900.00	0.0041	8.37	15.76	14.77	11.83	15.76	15.76
VANO 13	48.00	50.00	2366.13	432.68	2135.05	1713.63	137.22	33.62	5900.00	0.0041	1.76	17.69	99.38	24.35	5900.00	0.0041	8.67	16.51	14.77	11.83	17.69	17.69
VANO 14	0.00	1.00	2316.53	710.45	2235.21	1721.92	134.35	32.91	5900.00	0.0041	2.88	17.90	99.86	24.47	5900.00	0.0041	9.07	16.77	14.77	11.83	17.90	17.90
VANO 14	1.20	2.00	1801.53	683.29	2160.06	1637.58	104.48	25.60	5900.00	0.0041	2.77	14.19	94.97	23.27	5900.00	0.0041	8.77	16.02	14.77	11.83	16.02	16.02
VANO 14	2.40	3.00	1698.44	656.36	2087.24	1553.11	98.50	24.13	5900.00	0.0041	2.66	13.40	90.07	22.07	5900.00	0.0041	8.47	15.27	14.77	11.83	15.27	15.27
VANO 14	3.60	4.00	1605.64	629.66	2016.14	1468.51	93.12	22.81	5900.00	0.0041	2.56	12.68	85.17	20.87	5900.00	0.0041	8.18	14.52	14.77	11.83	14.77	14.52
VANO 14	4.80	5.00	1513.50	603.18	1946.57	1383.78	87.77	21.50	5900.00	0.0041	2.45	11.98	80.25	19.66	5900.00	0.0041	7.90	13.78	14.77	11.83	14.77	13.78
VANO 14	4.80	6.00	1513.50	603.18	1946.57	1383.78	87.77	21.50	5900.00	0.0041	2.45	11.98	80.25	19.66	5900.00	0.0041	7.90	13.78	14.77	11.83	14.77	13.78
VANO 14	6.00	7.00	1422.07	576.92	1879.73	1298.93	82.47	20.21	5900.00	0.0041	2.34	11.27	75.33	18.46	5900.00	0.0041	7.63	13.04	14.77	11.83	14.77	13.04
VANO 14	7.20	8.00	1331.41	550.89	1814.42	1213.96	77.21	18.92	5900.00	0.0041	2.24	10.58	70.40	17.25	5900.00	0.0041	7.37	12.31	14.77	11.83	14.77	12.31
VANO 14	8.40	9.00	1232.18	525.09	1751.04	1128.88	71.46	17.51	5900.00	0.0041	2.13	9.82	65.47	16.04	5900.00	0.0041	7.11	11.57	14.77	11.83	14.77	11.83
VANO 14	9.60	10.00	1130.68	499.51	1689.58	1043.69	65.57	16.07	5900.00	0.0041	2.03	9.05	60.53	14.83	5900.00	0.0041	6.86	10.84	14.77	11.83	14.77	11.83
VANO 14	9.60	11.00	1130.68	499.51	1689.58	1043.69	65.57	16.07	5900.00	0.0041	2.03	9.05	60.53	14.83	5900.00	0.0041	6.86	10.84	14.77	11.83	14.77	11.83
VANO 14	10.80	12.00	1030.10	474.16	1630.05	958.40	59.74	14.64	5900.00	0.0041	1.92	8.28	55.58	13.62	5900.00	0.0041	6.62	10.12	14.77	11.83	14.77	11.83
VANO 14	12.00	13.00	930.46	449.04	1572.46	873.01	53.96	13.22	5900.00	0.0041	1.82	7.52	50.63	12.40	5900.00	0.0041	6.38	9.39	14.77	11.83	14.77	11.83
VANO 14	13.20	14.00	831.83	424.14	1516.78	787.54	48.24	11.82	5900.00	0.0041	1.72	6.77	45.67	11.19	5900.00	0.0041	6.16	8.67	14.77	11.83	14.77	11.83
VANO 14	14.40	15.00	734.22	399.46	1463.04	701.99	42.58	10.43	5900.00	0.0041	1.62	6.03	40.71	9.97	5900.00	0.0041	5.94	7.96	14.77	11.83	14.77	11.83
VANO 14	14.40	16.00	717.28	399.46	1463.04	685.05	41.60	10.19	5900.00	0.0041	1.62	5.91	39.73	9.73	5900.00	0.0041	5.94	7.84	14.77	11.83	14.77	11.83
VANO 14	15.60	17.00	620.74	375.01	1411.23	599.42	36.00	8.82	5900.00	0.0041	1.52	5.17	34.76	8.52	5900.00	0.0041	5.73	7.12	14.77	11.83	14.77	11.83
VANO 14	16.80	18.00	525.30	350.79	1361.34	513.73	30.46	7.46	5900.00	0.0041	1.42	4.44	29.79	7.30	5900.00	0.0041	5.53	6.41	14.77	11.83	14.77	11.83
VANO 14	18.00	19.00	430.99	326.79	1313.38	427.98	25.00	6.12	5900.00	0.0041	1.33	3.73	24.82	6.08	5900.00	0.0041	5.33	5.71	14.77	11.83	14.77	11.83
VANO 14	19.20	20.00	489.77	177.07	1267.45	342.19	28.40	6.96	5900.00	0.0041	0.72	3.84	19.85	4.86	5900.00	0.0041	5.14	5.00	14.77	11.83	14.77	11.83
VANO 14	19.20	21.00	489.77	177.07	1267.45	342.19	28.40	6.96	5900.00	0.0041	0.72	3.84	19.85	4.86	5900.00	0.0041	5.14	5.00	14.77	11.83	14.77	11.83
VANO 14	20.40	22.00	567.43	166.70	1223.66	256.36	32.91	8.06	5900.00	0.0041	0.68	4.37	14.87	3.64	5900.00	0.0041	4.97	4.30	14.77	11.83	14.77	11.83
VANO 14	21.60	23.00	646.40	156.32	1182.00	170.50	37.49	9.18	5900.00	0.0041	0.63	4.91	9.89	2.42	5900.00	0.0041	4.80	3.61	14.77	11.83	14.77	11.83
VANO 14	22.80	24.00	726.69	145.95	1142.48	84.63	42.14	10.33	5900.00	0.0041	0.59	5.46	4.91	1.20	5900.00	0.0041	4.64	2.92	14.77	11.83	14.77	11.83
VANO 14	24.00	25.00	399.83	135.57	1105.09	2.42	23.19	5.68	5900.00	0.0041	0.55	3.12	0.14	0.03	5900.00	0.0041	4.49	2.26	14.77	11.83	14.77	11.83
VANO 14	24.00	26.00	399.83	135.57	1105.09	2.42	23.19	5.68	5900.00	0.0041	0.55	3.12	0.14	0.03	5900.00	0.0041	4.49	2.26	14.77	11.83	14.77	11.83
VANO 14	25.20	27.00	711.62	187.04	1077.35	88.01	41.27	10.11	5900.00	0.0041	0.76	5.44	5.10	1.25	5900.00	0.0041	4.37	2.81	14.77	11.83	14.77	11.83
VANO 14	26.40	28.00	631.31	164.70	1069.15	173.03	36.61	8.97	5900.00	0.0041	0.67	4.82	10.03	2.46	5900.00	0.0041	4.34	3.40	14.77	11.83	14.77	11.83
VANO 14	27.60	29.00	552.32	142.63	1100.17	258.89	32.03	7.85	5900.00	0.0041	0.58	4.21	15.01	3.68	5900.00	0.0041	4.47	4.07	14.77	11.83	14.77	11.83
VANO 14	28.80	30.00	474.65	120.83	1139.23	344.72	27.53	6.74	5900.00	0.0041	0.49	3.62	19.99	4.90	5900.00	0.0041	4.62	4.76	14.77	11.83	14.77	11.83
VANO 14	28.80	31.00	474.65	120.83	1139.23	344.72	27.53	6.74	5900.00	0.0041	0.49	3.62	19.99	4.90	5900.00	0.0041	4.62	4.76	14.77	11.83	14.77	11.83
VANO 14	30.00	32.00	441.60	111.38	1181.32	430.51	25.61	6.27	5900.00	0.0041	0.45	3.36	24.97	6.12	5900.00	0.0041	4.80	5.46	14.77	11.83	14.77	11.83
VANO 14	31.20	33.00	535.90	124.89	1225.64	516.26	31.08	7.61	5900.00	0.0041	0.51	4.06	29.94	7.34	5900.00	0.0041	4.98	6.16	14.77	11.83	14.77	11.83
VANO 14	32.40	34.00	631.32	143.44	1271.91	601.95	36.61	8.97	5900.00	0.0041	0.58	4.78	34.91	8.55	5900.00	0.0041	5.16	6.86	14.77	11.83	14.77	11.83
VANO 14	33.60	35.00	727.84	163.77	1320.10	687.58	42.21	10.34	5900.00	0.0041	0.66	5.50	39.88	9.77	5900.00	0.0041	5.36	7.56	14.77	11.83	14.77	11.83
VANO 14	33.60	36.00	727.84	163.77	1320.10	687.58	42.21	10.34	5900.00	0.0041	0.66	5.50	39.88	9.77	5900.00	0.0041	5.36	7.56	14.77	11.83	14.77	11.83
VANO 14	34.80	37.00	825.43	184.39	1371.34	773.13	47.87	11.73	5900.00	0.0041	0.75	6.24	44.84	10.99	5900.00	0.0041	5.57	8.28	14.77	11.83	14.77	11.83
VANO 14	36.00	38.00	924.05	205.23	1426.35	858.61	53.59	13.13	5900.00	0.0041	0.83	6.98	49.79	12.20	5900.00	0.0041	5.79	8.99	14.77	11.83	14.77	11.83
VANO 14	37.20	39.00	1023.67	226.30	1483.23	944.00	59.37	14.54	5900.00	0.0041	0.92	7.73	54.75	13.41	5900.00	0.0041	6.02	9.72	14.77	11.83	14.77	11.83
VANO 14	38.40	40.00	1124.25	247.59	1542.13	1029.29	65.20	15.97	5900.00	0.0041	1.01	8.49	59.69	14.62	5900.00	0.0041	6.26	10.44	14.77	11.83	14.77	11.83
VANO 14	38.40	41.00	1124.25	247.59	1542.13	1029.29	65.20	15.97	5900.00	0.0041	1.01	8.49	59.69	14.62	5900.00	0.0041	6.26	10.44	14.77	11.83	14.77	11.83
VANO 14	39.60	42.00	1225.73	269.50	1602.93	1114.48	71.09	17.42	5900.00	0.0041	1.09	9.25	64.63	15.84	5900.00	0.0041	6.51	11.17	14.77	11.83	14.77	11.83
VANO 14	40.80	43.00	1328.09	292.13	1665.63	1199.57	77.02	18.87	5900.00	0.0041	1.19	10.03	69.57	17.04	5900.00	0.0041	6.76	11.90	14.77	11.83	14.77	11.90
VANO 14	42.00	44.00	1431.26	314.99	1730.33	1284.54	83.01	20.34	5900.00	0.0041	1.28	10.81	74.50	18.25	5900.00	0.0041	7.02	12.64	14.77	11.83	14.77	12.64
VANO 14	43.20	45.00	1535.21	338.08	1796.91	1369.40	89.03	21.81	5900.00	0.0041	1.37	11.59	79.42	19.46	5900.00	0.0041	7.29	13.38	14.77	11.83	14.77	13.38
VANO 14	43.20	46.00	1535.21	338.08	1796.91	1369.40	89.03	21.81	5900.00	0.0041	1.37	11.59	79.42	19.46	5900.00	0.0041	7.29	13.38	14.77	11.83	14.77	13.38
VANO 14	44.40	47.00	1639.87	361.39	1865.41	1454.13	95.10	23.30	5900.00	0.0041	1.47	12.38	84.33	20.66	5900.00	0.0041	7.57	14.12	14.77	11.83	14.77	14.12
VANO 14	45.60	48.00	1745.20	384.93	1935.81	1538.74	101.21	24.80	5900.00	0.0041	1.56	13.18	89.24	21.86	5900.00	0.0041	7.86	14.86	14.77	11.83	14.86	14.86
VANO 14	46.80	49.00	1851.13	408.69	2008.2	1623.22	107.36	26.30	5900.00	0.0041	1.66	13.98	94.14	23.06	5900.00	0.0041	8.15	15.61	14.77	11.83	15.61	15.61

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 8 PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	75%	75%
% PERDIDA	0.16	20%	20%
COEF. SEG	1	1.0	1.0

ARMADO DE LOSA INFERIOR EN ZONA CENTRAL

CARACT. RASANTE

M est (S6)=	1.16
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.058
Canto sec=	0.33

CARACTERISTICAS TORSOR

fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC — **ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC** — **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 15	0.00	1.00	2316.53	710.45	2323.20	1715.51	134.35	32.91	5900.00	0.0041	2.88	17.90	99.49	24.38	5900.00	0.0041	9.43	16.90	14.77	11.83	17.90	17.90
VANO 15	1.20	2.00	1801.53	683.29	2247.92	1631.17	104.48	25.60	5900.00	0.0041	2.77	14.19	94.60	23.18	5900.00	0.0041	9.12	16.15	14.77	11.83	16.15	16.15
VANO 15	2.40	3.00	1698.44	656.36	2174.57	1546.70	98.50	24.13	5900.00	0.0041	2.66	13.40	89.70	21.98	5900.00	0.0041	8.83	15.40	14.77	11.83	15.40	15.40
VANO 15	3.60	4.00	1605.64	629.66	2103.15	1462.10	93.12	22.81	5900.00	0.0041	2.56	12.68	84.79	20.77	5900.00	0.0041	8.54	14.66	14.77	11.83	14.77	14.66
VANO 15	4.80	5.00	1513.50	603.18	2033.65	1377.38	87.77	21.50	5900.00	0.0041	2.45	11.98	79.88	19.57	5900.00	0.0041	8.26	13.91	14.77	11.83	14.77	13.91
VANO 15	4.80	6.00	1513.50	603.18	2033.65	1377.38	87.77	21.50	5900.00	0.0041	2.45	11.98	79.88	19.57	5900.00	0.0041	8.26	13.91	14.77	11.83	14.77	13.91
VANO 15	6.00	7.00	1422.07	576.92	1966.08	1292.53	82.47	20.21	5900.00	0.0041	2.34	11.27	74.96	18.37	5900.00	0.0041	7.98	13.17	14.77	11.83	14.77	13.17
VANO 15	7.20	8.00	1331.41	550.89	1900.44	1207.57	77.21	18.92	5900.00	0.0041	2.24	10.58	70.03	17.16	5900.00	0.0041	7.71	12.44	14.77	11.83	14.77	12.44
VANO 15	8.40	9.00	1232.18	525.09	1836.73	1122.49	71.46	17.51	5900.00	0.0041	2.13	9.82	65.10	15.95	5900.00	0.0041	7.46	11.70	14.77	11.83	14.77	11.83
VANO 15	9.60	10.00	1130.68	499.51	1774.94	1037.30	65.57	16.07	5900.00	0.0041	2.03	9.05	60.16	14.74	5900.00	0.0041	7.20	10.97	14.77	11.83	14.77	11.83
VANO 15	9.60	11.00	1130.68	499.51	1774.94	1037.30	65.57	16.07	5900.00	0.0041	2.03	9.05	60.16	14.74	5900.00	0.0041	7.20	10.97	14.77	11.83	14.77	11.83
VANO 15	10.80	12.00	1030.10	474.16	1715.08	952.02	59.74	14.64	5900.00	0.0041	1.92	8.28	55.21	13.53	5900.00	0.0041	6.96	10.24	14.77	11.83	14.77	11.83
VANO 15	12.00	13.00	930.46	449.04	1657.14	866.64	53.96	13.22	5900.00	0.0041	1.82	7.52	50.26	12.31	5900.00	0.0041	6.73	9.52	14.77	11.83	14.77	11.83
VANO 15	13.20	14.00	831.83	424.14	1601.13	781.17	48.24	11.82	5900.00	0.0041	1.72	6.77	45.30	11.10	5900.00	0.0041	6.50	8.80	14.77	11.83	14.77	11.83
VANO 15	14.40	15.00	734.22	399.46	1547.05	695.63	42.58	10.43	5900.00	0.0041	1.62	6.03	40.34	9.88	5900.00	0.0041	6.28	8.08	14.77	11.83	14.77	11.83
VANO 15	14.40	16.00	717.28	399.46	1547.05	678.68	41.60	10.19	5900.00	0.0041	1.62	5.91	39.36	9.64	5900.00	0.0041	6.28	7.96	14.77	11.83	14.77	11.83
VANO 15	15.60	17.00	620.74	375.01	1494.90	593.06	36.00	8.82	5900.00	0.0041	1.52	5.17	34.39	8.43	5900.00	0.0041	6.07	7.25	14.77	11.83	14.77	11.83
VANO 15	16.80	18.00	525.30	350.79	1444.67	507.38	30.46	7.46	5900.00	0.0041	1.42	4.44	29.43	7.21	5900.00	0.0041	5.86	6.54	14.77	11.83	14.77	11.83
VANO 15	18.00	19.00	430.99	326.79	1396.37	421.64	25.00	6.12	5900.00	0.0041	1.33	3.73	24.45	5.99	5900.00	0.0041	5.67	5.83	14.77	11.83	14.77	11.83
VANO 15	19.20	20.00	489.77	177.07	1350.10	335.85	28.40	6.96	5900.00	0.0041	0.72	3.84	19.48	4.77	5900.00	0.0041	5.48	5.13	14.77	11.83	14.77	11.83
VANO 15	19.20	21.00	489.77	177.07	1350.10	335.85	28.40	6.96	5900.00	0.0041	0.72	3.84	19.48	4.77	5900.00	0.0041	5.48	5.13	14.77	11.83	14.77	11.83
VANO 15	20.40	22.00	567.43	166.70	1305.97	250.03	32.91	8.06	5900.00	0.0041	0.68	4.37	14.50	3.55	5900.00	0.0041	5.30	4.43	14.77	11.83	14.77	11.83
VANO 15	21.60	23.00	646.40	156.32	1263.97	164.17	37.49	9.18	5900.00	0.0041	0.63	4.91	9.52	2.33	5900.00	0.0041	5.13	3.73	14.77	11.83	14.77	11.83
VANO 15	22.80	24.00	726.69	145.95	1224.10	78.30	42.14	10.33	5900.00	0.0041	0.59	5.46	4.54	1.11	5900.00	0.0041	4.97	3.04	14.77	11.83	14.77	11.83
VANO 15	24.00	25.00	399.83	135.57	1186.36	7.60	23.19	5.68	5900.00	0.0041	0.55	3.12	0.44	0.11	5900.00	0.0041	4.82	2.46	14.77	11.83	14.77	11.83
VANO 15	24.00	26.00	399.83	135.57	1186.36	7.60	23.19	5.68	5900.00	0.0041	0.55	3.12	0.44	0.11	5900.00	0.0041	4.82	2.46	14.77	11.83	14.77	11.83
VANO 15	25.20	27.00	711.62	187.04	1150.76	94.38	41.27	10.11	5900.00	0.0041	0.76	5.44	5.47	1.34	5900.00	0.0041	4.67	3.01	14.77	11.83	14.77	11.83
VANO 15	26.40	28.00	631.31	164.70	1128.16	181.15	36.61	8.97	5900.00	0.0041	0.67	4.82	10.51	2.57	5900.00	0.0041	4.58	3.58	14.77	11.83	14.77	11.83
VANO 15	27.60	29.00	552.32	142.63	1111.63	267.91	32.03	7.85	5900.00	0.0041	0.58	4.21	15.54	3.81	5900.00	0.0041	4.51	4.16	14.77	11.83	14.77	11.83
VANO 15	28.80	30.00	474.65	120.83	1108.84	351.01	27.53	6.74	5900.00	0.0041	0.49	3.62	20.36	4.99	5900.00	0.0041	4.50	4.74	14.77	11.83	14.77	11.83
VANO 15	28.80	31.00	474.65	120.83	1108.84	351.01	27.53	6.74	5900.00	0.0041	0.49	3.62	20.36	4.99	5900.00	0.0041	4.50	4.74	14.77	11.83	14.77	11.83
VANO 15	30.00	32.00	441.60	111.38	1143.86	436.80	25.61	6.27	5900.00	0.0041	0.45	3.36	25.33	6.21	5900.00	0.0041	4.64	5.42	14.77	11.83	14.77	11.83
VANO 15	31.20	33.00	535.90	124.89	1180.92	522.54	31.08	7.61	5900.00	0.0041	0.51	4.06	30.30	7.42	5900.00	0.0041	4.79	6.11	14.77	11.83	14.77	11.83
VANO 15	32.40	34.00	631.32	143.44	1224.70	608.23	36.61	8.97	5900.00	0.0041	0.58	4.78	35.27	8.64	5900.00	0.0041	4.97	6.81	14.77	11.83	14.77	11.83
VANO 15	33.60	35.00	727.84	163.77	1271.98	693.85	42.21	10.34	5900.00	0.0041	0.66	5.50	40.24	9.86	5900.00	0.0041	5.16	7.51	14.77	11.83	14.77	11.83
VANO 15	33.60	36.00	727.84	163.77	1271.98	693.85	42.21	10.34	5900.00	0.0041	0.66	5.50	40.24	9.86	5900.00	0.0041	5.16	7.51	14.77	11.83	14.77	11.83
VANO 15	34.80	37.00	825.43	184.39	1321.25	779.40	47.87	11.73	5900.00	0.0041	0.75	6.24	45.20	11.07	5900.00	0.0041	5.36	8.22	14.77	11.83	14.77	11.83
VANO 15	36.00	38.00	924.05	205.23	1372.43	864.87	53.59	13.13	5900.00	0.0041	0.83	6.98	50.16	12.29	5900.00	0.0041	5.57	8.93	14.77	11.83	14.77	11.83
VANO 15	37.20	39.00	1023.67	226.30	1425.55	950.25	59.37	14.54	5900.00	0.0041	0.92	7.73	55.11	13.50	5900.00	0.0041	5.79	9.64	14.77	11.83	14.77	11.83
VANO 15	38.40	40.00	1124.25	247.59	1480.59	1035.54	65.20	15.97	5900.00	0.0041	1.01	8.49	60.06	14.71	5900.00	0.0041	6.01	10.36	14.77	11.83	14.77	11.83
VANO 15	38.40	41.00	1124.25	247.59	1480.59	1035.54	65.20	15.97	5900.00	0.0041	1.01	8.49	60.06	14.71	5900.00	0.0041	6.01	10.36	14.77	11.83	14.77	11.83
VANO 15	39.60	42.00	1225.73	269.50	1537.32	1120.73	71.09	17.42	5900.00	0.0041	1.09	9.25	65.00	15.92	5900.00	0.0041	6.24	11.08	14.77	11.83	14.77	11.83
VANO 15	40.80	43.00	1328.09	292.13	1597.31	1205.81	77.02	18.87	5900.00	0.0041	1.19	10.03	69.93	17.13	5900.00	0.0041	6.48	11.81	14.77	11.83	14.77	11.83
VANO 15	42.00	44.00	1431.26	314.99	1658.72	1290.78	83.01	20.34	5900.00	0.0041	1.28	10.81	74.86	18.34	5900.00	0.0041	6.73	12.54	14.77	11.83	14.77	12.54
VANO 15	43.20	45.00	1535.21	338.08	1722.97	1375.63	89.03	21.81	5900.00	0.0041	1.37	11.59	79.78	19.55	5900.00	0.0041	6.99	13.27	14.77	11.83	14.77	13.27
VANO 15	43.20	46.00	1535.21	338.08	1722.97	1375.63	89.03	21.81	5900.00	0.0041	1.37	11.59	79.78	19.55	5900.00	0.0041	6.99	13.27	14.77	11.83	14.77	13.27
VANO 15	44.40	47.00	1639.87	361.39	1787.33	1460.36	95.10	23.30	5900.00	0.0041	1.47	12.38	84.69	20.75	5900.00	0.0041	7.26	14.00	14.77	11.83	14.77	14.00
VANO 15	45.60	48.00	1745.20	384.93	1854.53	1544.96	101.21	24.80	5900.00	0.0041	1.56	13.18	89.60	21.95	5900.00	0.0041	7.53	14.74	14.77	11.83	14.77	14.74
VANO 15	46.80	49.00	1851.13	408.69	1923.35	1629.44	107.36	26.30	5900.00	0.0041	1.66	13.98	94.50	23.15	5900.00	0.0041	7.81	15.48	14.77	11.83	15.48	15.48
VANO 15	48.00	50.00	2366.13	432.68	1994.70	1713.78	137.22	33.62	5900.00	0.0041	1.76	17.69	99.39	24.35	5900.00	0.0041	8.10	16.22	14.77	11.83	17.69	17.69
VANO 16	0.00	1.00	2316.53	710.45	2288.31	1719.36	134.35	32.91	5900.00	0.0041	2.88	17.90	99.71	24.43	5900.00	0.0041	9.29	16.86	14.77	11.83	17.90	17.90
VANO 16	1.20	2.00	1801.53	683.29	2213.51	1635.02	104.48	25.60	5900.00	0.0041	2.77	14.19	94.82	23.23	5900.00	0.0041	8.99	16.11	14.77	11.83	16.11	16.11
VANO 16	2.40	3.00	1698.44	656.36	2140.33	1550.55	98.50	24.13	5900.00	0.0041	2.66	13.40	89.92	22.03	5900.00	0.0041	8.69	15.36	14.77	11.83	15.36	15.36
VANO 16	3.60	4.00	1605.64	629.66	2069.36	1465.96	93.12	22.81	5900.00	0.0041	2.56	12.68	85.02	20.83	5900.00	0.0041	8.40	14.62	14.77	11.83	14.77	14.62
VANO 16	4.80	5.00	1513.50	603.18	2000.50	1381.23	87.77	21.50	5900.00	0.0041	2.45	11.98	80.10	19.63	5900.00	0.0041	8.12	13.87	14.77	11.83	14.77	13.87
VANO 16	4.80	6.00	1513.50	603.18	2000.50	1381.23	87.77	21.50	5900.00	0.0041	2.45	11.98	80.10	19.63	5900.00	0.0041	8.12	13.87	14.77	11.83	14.77	13.87
VANO 16	6.00	7.00	1422.07	576.92	1933.16	1296.38	82.47	20.21	5900.00	0.0041	2.34	11.27	75.18	18.42	5900.00	0.0041	7.85	13.13	14.77	11.83	14.77	13.13
VANO 16	7.20	8.00	1331.41	550.89	1868.53	1211.42	77.21	18.92	5900.00	0.0041	2.24	10.58	70.26	17.21	5900.00	0.0041	7.58	12.40	14.77	11.83	14.77	12.40
VANO 16	8.40	9.00	1232.18	525.09	1804.31	1126.34	71.46	17.51	5900.00	0.0041	2.13	9.82	65.32	16.00	5900.00	0.0041	7.33	11.67	14.77	11.83	14.77	11.83
VANO 16	9.60	10.00	1130.68	499.51	1743.51	1041.16	65.57	16.07	5900.00	0.0041	2.03	9.05	60.38	14.79	5900.00	0.0041	7.08	10.94	14.77	11.83	14.77	11.83
VANO 16	9.60	11.00	1130.68	499.51	1743.51	1041.16	65.57	16.07	5900.00	0.0041	2.03	9.05	60.38	14.79	5900.00	0.0041	7.08	10.94	14.77	11.83	14.77	11.83
VANO 16	10.80	12.00	1030.10	474.16	1684.02	955.88	59.74	14.64	5900.00	0.0041	1.92	8.28	55.44	13.58	5900.00	0.0041	6.84	10.21	14.77	11.83	14.77	11.83
VANO 16	12.00	13.00	930.46	449.04	1626.14	870.50	53.96	13.22	5900.00	0.0041	1.82	7.52	50.48	12.37	5900.00	0.0041	6.60	9.49	14.77	11.83	14.77	11.83
VANO 16	13.20	14.00	831.83	424.14	1570.78	785.04	48.24	11.82	5900.00	0.0041	1.72	6.77	45.53	11.15	5900.00	0.0041	6.38	8.77	14.77	11.83	14.77	11.83
VANO 16	14.40	15.00	734.22	399.46	1517.14	699.49	42.58	10.43	5900.00	0.0041	1.62	6.03	40.57	9.94	5900.00	0.0041	6.16	8.05	14.77	11.83	14.77	11.83
VANO 16	14.40	16.00	717.28	399.46	1517.14	682.55	41.60	10.19	5900.00	0.0041	1.62	5.91	39.58	9.70	5900.00	0.0041	6.16	7.93	14.77	11.83	14.77	11.83
VANO 16	15.60	17.00	620.74	375.01	1465.30	596.93	36.00	8.82	5900.00	0.0041	1.52	5.17	34.62	8.48	5900.00	0.0041	5.95	7.21	14.77	11.83	14.77	11.83
VANO 16	16.80	18.00	525.30	350.79	1415.38	511.25	30.46	7.46	5900.00	0.0041	1.42	4.44	29.65	7.26	5900.00	0.0041	5.74	6.50	14.77	11.83	14.77	11.83
VANO 16	18.00	19.00	430.99	326.79	1367.17	425.51	25.00	6.12	5900.00	0.0041	1.33	3.73	24.68	6.05	5900.00	0.0041	5.55	5.80	14.77	11.83	14.77	11.83
VANO 16	19.20	20.00	489.77	177.07	1321.38	339.73	28.40	6.96	5900.00	0.0041	0.72	3.84	19.70	4.83	5900.00	0.0041	5.36	5.10	14.77	11.83	14.77	11.83
VANO 16	19.20	21.00	489.77	177.07	1321.38	339.73	28.40	6.96	5900.00	0.0041	0.72	3.84	19.70	4.83	5900.00	0.0041	5.36	5.10	14.77	11.83	14.77	11.83
VANO 16	20.40	22.00	567.43	166.70	1277.41	253.91	32.91	8.06	5900.00	0.0041	0.68	4.37	14.73	3.61	5900.00	0.0041	5.19	4.40	14.77	11.83	14.77	11.83
VANO 16	21.60	23.00	646.40	156.32	1235.06	168.06	37.49	9.18	5900.00	0.0041	0.63	4.91	9.75	2.39	5900.00	0.0041	5.02	3.70	14.77	11.83	14.77	11.83
VANO 16	22.80	24.00	726.69	145.95	1196.02	82.19	42.14	10.33	5900.00	0.0041	0.59	5.46	4.77	1.17	5900.00	0.0041	4.85	3.01	14.77	11.83	14.51	11.83
VANO 16	24.00	25.00	399.83	135.57	1158.51	4.12	23.19	5.68	5900.00	0.0041	0.55	3.12	0.24	0.06	5900.00	0.0041	4.70	2.38	14.77	11.83	14.77	11.83
VANO 16	24.00	26.00	399.83	135.57	1158.51	4.12	23.19	5.68	5900.00	0.0041	0.55	3.12	0.24	0.06	5900.00	0.0041	4.70	2.38	14.77	11.83	14.77	11.83
VANO 16	25.20	27.00	711.62	187.04	1127.74	90.46	41.27	10.11	5900.00	0.0041	0.76	5.44	5.25	1.29	5900.00	0.0041	4.58	2.93	14.77	11.83	14.77	11.83
VANO 16	26.40	28.00	631.31	164.70	1110.19	177.22	36.61	8.97	5900.00	0.0041	0.67	4.82	10.28	2.52	5900.00	0.0041	4.51	3.51	14.77	11.83	14.77	11.83
VANO 16	27.60	29.00	552.32	142.63	1112.91	261.29	32.03	7.85	5900.00	0.0041	0.58	4.21	15.15	3.71	5900.00	0.0041	4.52	4.12	14.77	11.83	14.77	11.83
VANO 16	28.80	30.00	474.65	120.83	1149.42	347.11	27.53	6.74	5900.00	0.0041	0.49	3.62	20.13	4.93	5900.00	0.0041	4.67	4.80	14.77	11.83	14.77	11.83
VANO 16	28.80	31.00	474.65	120.83	1149.42	347.11	27.53	6.74	5900.00	0.0041	0.49	3.62	20.13	4.93	5900.00	0.0041	4.67	4.80	14.77	11.83	14.77	11.83
VANO 16	30.00	32.00	441.60	111.38	1191.65	432.89	25.61	6.27	5900.00	0.0041	0.45	3.36	25.11	6.15	5900.00	0.0041	4.83	5.49	14.77	11.83	14.77	11.83
VANO 16	31.20	33.00	535.90	124.89	1234.69	518.63	31.08	7.61	5900.00	0.0041	0.51	4.06	30.08	7.37	5900.00	0.0041	5.01	6.19	14.77	11.83	14.77	11.83
VANO 16	32.40	34.00	631.32	143.44	1280.24	604.32	36.61	8.97	5900.00	0.0041	0.58	4.78	35.05	8.59	5900.00	0.0041	5.20	6.89	14.77	11.83	14.77	11.83
VANO 16	33.60	35.00	727.84	163.77	1327.11	689.94	42.21	10.34	5900.00	0.0041	0.66	5.50	40.01	9.80	5900.00	0.0041	5.39	7.60	14.77	11.83	14.77	11.83
VANO 16	33.60	36.00	727.84	163.77	1327.11	689.94	42.21	10.34	5900.00	0.0041	0.66	5.50	40.01	9.80	5900.00	0.0041	5.39	7.60	14.77	11.83	14.77	11.83
VANO 16	34.80	37.00	825.43	184.39	1377.43	775.48	47.87	11.73	5900.00	0.0041	0.75	6.24	44.97	11.02	5900.00	0.0041	5.59	8.30	14.77	11.83	14.77	11.83
VANO 16	36.00	38.00	924.05	205.23	1429.12	860.95	53.59	13.13	5900.00	0.0041	0.83	6.98	49.93	12.23	5900.00	0.0041	5.80	9.02	14.77	11.83	14.77	11.83
VANO 16	37.20	39.00	1023.67	226.30	1483.12	946.33	59.37	14.54	5900.00	0.0041	0.92	7.73	54.88	13.45	5900.00	0.0041	6.02	9.73	14.77	11.83	14.77	11.83
VANO 16	38.40	40.00	1124.25	247.59	1538.83	1031.62	65.20	15.97	5900.00	0.0041	1.01	8.49	59.83	14.66	5900.00	0.0041	6.25	10.45	14.77	11.83	14.77	11.83
VANO 16	38.40	41.00	1124.25	247.59	1538.83	1031.62	65.20	15.97	5900.00	0.0041	1.01	8.49	59.83	14.66	5900.00	0.0041	6.25	10.45	14.77	11.83	14.77	11.83
VANO 16	39.60	42.00	1225.73	269.50	1596.48	1116.80	71.09	17.42	5900.00	0.0041	1.09	9.25	64.77	15.87	5900.00	0.0041	6.48	11.17	14.77	11.83	14.77	11.83
VANO 16	40.80	43.00	1328.09	292.13	1656.09	1201.88	77.02	18.87	5900.00	0.0041	1.19	10.03	69.70	17.08	5900.00	0.0041	6.72	11.90	14.77	11.83	14.77	11.90
VANO 16	42.00	44.00	1431.26	314.99	1717.46	1286.85	83.01	20.34	5900.00	0.0041	1.28	10.81	74.83	18.28	5900.00	0.0041	6.97	12.63	14.77	11.83	14.77	12.63
VANO 16	43.20	45.00	1535.21	338.08	1783.23	1371.70	89.03	21.81	5900.00	0.0041	1.37	11.59	79.55	19.49	5900.00	0.0041	7.24	13.36	14.77	11.83	14.77	13.36
VANO 16	43.20	46.00	1535.21	338.08	1783.23	1371.70	89.03	21.81	5900.00	0.0041	1.37	11.59	79.55	19.49	5900.00	0.0041	7.24	13.36	14.77	11.83	14.77	13.36
VANO 16	44.40	47.00	1639.87	361.39	1851.61	1456.43	95.10	23.30	5900.00	0.0041	1.47	12.38	84.46	20.69	5900.00	0.0041	7.52	14.10	14.77	11.83	14.77	14.10
VANO 16	45.60	48.00	1745.20	384.93	1921.51	1541.03	101.21	24.80	5900.00	0.0041	1.56	13.18	89.37	21.90	5900.00	0.0041	7.80	14.85	14.77	11.83	14.85	14.85
VANO 16	46.80	49.00	1851.13	408.69	1994.11	1625.51	107.36	26.30	5900.00	0.0041	1.66	13.98	94.27	23.10	5900.00	0.0041	8.09	15.60	14.77	11.83	15.60	15.60

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR EN ZONA CENTRAL

CARACT. RASANTE	
M est (S6)=	1.16
Inercia XX =	20.0
fyd cercos =	40816
colg tetha =	1
K rasant =	0.058
Canto sec=	0.33

CARACTERISTICAS TORSOR			
fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
colg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1.526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

			Hipótesis max cortante		Hipótesis max torsor		ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC					ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC					ARMADO DEFINITIV	
							Dos caras				Una cara	Dos caras				Una cara	FLEXIÓN TRANS	
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 17	0.00	1.00	2316.53	710.45	2280.43	1717.77	134.35	32.91	5900.00	0.0041	2.88	17.90	99.62	24.41	5900.00	0.0041	9.26	16.83	14.77	11.83	17.90	17.90
VANO 17	1.20	2.00	1801.53	683.29	2205.69	1633.44	104.48	25.60	5900.00	0.0041	2.77	14.19	94.73	23.21	5900.00	0.0041	8.95	16.08	14.77	11.83	16.08	16.08
VANO 17	2.40	3.00	1698.44	656.36	2132.85	1548.97	98.50	24.13	5900.00	0.0041	2.66	13.40	89.83	22.01	5900.00	0.0041	8.66	15.33	14.77	11.83	15.33	15.33
VANO 17	3.60	4.00	1605.64	629.66	2061.02	1464.37	93.12	22.81	5900.00	0.0041	2.56	12.68	84.93	20.81	5900.00	0.0041	8.37	14.59	14.77	11.83	14.77	14.59
VANO 17	4.80	5.00	1513.50	603.18	1992.90	1379.65	87.77	21.50	5900.00	0.0041	2.45	11.98	80.01	19.60	5900.00	0.0041	8.09	13.85	14.77	11.83	14.77	13.85
VANO 17	4.80	6.00	1513.50	603.18	1992.90	1379.65	87.77	21.50	5900.00	0.0041	2.45	11.98	80.01	19.60	5900.00	0.0041	8.09	13.85	14.77	11.83	14.77	13.85
VANO 17	6.00	7.00	1422.07	576.92	1925.79	1294.80	82.47	20.21	5900.00	0.0041	2.34	11.27	75.09	18.40	5900.00	0.0041	7.82	13.11	14.77	11.83	14.77	13.11
VANO 17	7.20	8.00	1331.41	550.89	1860.59	1209.84	77.21	18.92	5900.00	0.0041	2.24	10.58	70.16	17.19	5900.00	0.0041	7.55	12.37	14.77	11.83	14.77	12.37
VANO 17	8.40	9.00	1232.18	525.09	1797.00	1124.77	71.46	17.51	5900.00	0.0041	2.13	9.82	65.23	15.98	5900.00	0.0041	7.30	11.64	14.77	11.83	14.77	11.83
VANO 17	9.60	10.00	1130.68	499.51	1735.91	1039.59	65.57	16.07	5900.00	0.0041	2.03	9.05	60.29	14.77	5900.00	0.0041	7.05	10.91	14.77	11.83	14.77	11.83
VANO 17	9.60	11.00	1130.68	499.51	1735.91	1039.59	65.57	16.07	5900.00	0.0041	2.03	9.05	60.29	14.77	5900.00	0.0041	7.05	10.91	14.77	11.83	14.77	11.83
VANO 17	10.80	12.00	1030.10	474.16	1676.44	954.31	59.74	14.64	5900.00	0.0041	1.92	8.28	55.34	13.56	5900.00	0.0041	6.81	10.18	14.77	11.83	14.77	11.83
VANO 17	12.00	13.00	930.46	449.04	1618.87	868.93	53.96	13.22	5900.00	0.0041	1.82	7.52	50.39	12.35	5900.00	0.0041	6.57	9.46	14.77	11.83	14.77	11.83
VANO 17	13.20	14.00	831.83	424.14	1563.02	783.47	48.24	11.82	5900.00	0.0041	1.72	6.77	45.44	11.13	5900.00	0.0041	6.35	8.74	14.77	11.83	14.77	11.83
VANO 17	14.40	15.00	734.22	399.46	1509.47	697.93	42.58	10.43	5900.00	0.0041	1.62	6.03	40.48	9.92	5900.00	0.0041	6.13	8.02	14.77	11.83	14.77	11.83
VANO 17	14.40	16.00	717.28	399.46	1509.47	680.99	41.60	10.19	5900.00	0.0041	1.62	5.91	39.49	9.68	5900.00	0.0041	6.13	7.90	14.77	11.83	14.77	11.83
VANO 17	15.60	17.00	620.74	375.01	1457.63	595.37	36.00	8.82	5900.00	0.0041	1.52	5.17	34.53	8.46	5900.00	0.0041	5.92	7.19	14.77	11.83	14.77	11.83
VANO 17	16.80	18.00	525.30	350.79	1407.20	509.69	30.46	7.46	5900.00	0.0041	1.42	4.44	29.56	7.24	5900.00	0.0041	5.71	6.48	14.77	11.83	14.77	11.83
VANO 17	18.00	19.00	430.99	326.79	1359.68	423.96	25.00	6.12	5900.00	0.0041	1.33	3.73	24.59	6.02	5900.00	0.0041	5.52	5.77	14.77	11.83	14.77	11.83
VANO 17	19.20	20.00	489.77	177.07	1313.67	338.18	28.40	6.96	5900.00	0.0041	0.72	3.84	19.61	4.81	5900.00	0.0041	5.33	5.07	14.77	11.83	14.77	11.83
VANO 17	19.20	21.00	489.77	177.07	1313.67	338.18	28.40	6.96	5900.00	0.0041	0.72	3.84	19.61	4.81	5900.00	0.0041	5.33	5.07	14.77	11.83	14.77	11.83
VANO 17	20.40	22.00	567.43	166.70	1269.17	252.36	32.91	8.06	5900.00	0.0041	0.68	4.37	14.64	3.59	5900.00	0.0041	5.15	4.37	14.77	11.83	14.77	11.83
VANO 17	21.60	23.00	646.40	156.32	1227.59	166.51	37.49	9.18	5900.00	0.0041	0.63	4.91	9.66	2.37	5900.00	0.0041	4.98	3.68	14.77	11.83	14.77	11.83
VANO 17	22.80	24.00	726.69	145.95	1188.12	80.65	42.14	10.33	5900.00	0.0041	0.59	5.46	4.68	1.15	5900.00	0.0041	4.82	2.98	14.77	11.83	14.77	11.83
VANO 17	24.00	25.00	399.83	135.57	1150.79	5.23	23.19	5.68	5900.00	0.0041	0.55	3.12	0.30	0.07	5900.00	0.0041	4.67	2.37	14.77	11.83	14.77	11.83
VANO 17	24.00	26.00	399.83	135.57	1150.79	5.23	23.19	5.68	5900.00	0.0041	0.55	3.12	0.30	0.07	5900.00	0.0041	4.67	2.37	14.77	11.83	14.77	11.83
VANO 17	25.20	27.00	711.62	187.04	1123.13	92.00	41.27	10.11	5900.00	0.0041	0.76	5.44	5.34	1.31	5900.00	0.0041	4.56	2.93	14.77	11.83	14.77	11.83
VANO 17	26.40	28.00	631.31	164.70	1106.18	178.76	36.61	8.97	5900.00	0.0041	0.67	4.82	10.37	2.54	5900.00	0.0041	4.49	3.52	14.77	11.83	14.77	11.83
VANO 17	27.60	29.00	552.32	142.63	1126.66	262.81	32.03	7.85	5900.00	0.0041	0.58	4.21	15.24	3.73	5900.00	0.0041	4.57	4.15	14.77	11.83	14.77	11.83
VANO 17	28.80	30.00	474.65	120.83	1159.12	348.63	27.53	6.74	5900.00	0.0041	0.49	3.62	20.22	4.95	5900.00	0.0041	4.71	4.83	14.77	11.83	14.77	11.83
VANO 17	28.80	31.00	474.65	120.83	1159.12	348.63	27.53	6.74	5900.00	0.0041	0.49	3.62	20.22	4.95	5900.00	0.0041	4.71	4.83	14.77	11.83	14.77	11.83
VANO 17	30.00	32.00	441.60	111.38	1199.69	434.41	25.61	6.27	5900.00	0.0041	0.45	3.36	25.19	6.17	5900.00	0.0041	4.87	5.52	14.77	11.83	14.77	11.83
VANO 17	31.20	33.00	535.90	124.89	1243.00	520.14	31.08	7.61	5900.00	0.0041	0.51	4.06	30.17	7.39	5900.00	0.0041	5.05	6.22	14.77	11.83	14.77	11.83
VANO 17	32.40	34.00	631.32	143.44	1288.62	605.82	36.61	8.97	5900.00	0.0041	0.58	4.78	35.13	8.61	5900.00	0.0041	5.23	6.92	14.77	11.83	14.77	11.83
VANO 17	33.60	35.00	727.84	163.77	1336.13	691.44	42.21	10.34	5900.00	0.0041	0.66	5.50	40.10	9.82	5900.00	0.0041	5.43	7.63	14.77	11.83	14.77	11.83
VANO 17	33.60	36.00	727.84	163.77	1336.13	691.44	42.21	10.34	5900.00	0.0041	0.66	5.50	40.10	9.82	5900.00	0.0041	5.43	7.63	14.77	11.83	14.77	11.83
VANO 17	34.80	37.00	825.43	184.39	1386.66	776.98	47.87	11.73	5900.00	0.0041	0.75	6.24	45.06	11.04	5900.00	0.0041	5.63	8.33	14.77	11.83	14.77	11.83
VANO 17	36.00	38.00	924.05	205.23	1438.50	862.45	53.59	13.13	5900.00	0.0041	0.83	6.98	50.02	12.25	5900.00	0.0041	5.84	9.05	14.77	11.83	14.77	11.83
VANO 17	37.20	39.00	1023.67	226.30	1492.24	947.82	59.37	14.54	5900.00	0.0041	0.92	7.73	54.97	13.47	5900.00	0.0041	6.06	9.76	14.77	11.83	14.77	11.83
VANO 17	38.40	40.00	1124.25	247.59	1547.50	1033.11	65.20	15.97	5900.00	0.0041	1.01	8.49	59.91	14.68	5900.00	0.0041	6.28	10.48	14.77	11.83	14.77	11.83
VANO 17	38.40	41.00	1124.25	247.59	1547.50	1033.11	65.20	15.97	5900.00	0.0041	1.01	8.49	59.91	14.68	5900.00	0.0041	6.28	10.48	14.77	11.83	14.77	11.83
VANO 17	39.60	42.00	1225.73	269.50	1607.66	1118.29	71.09	17.42	5900.00	0.0041	1.09	9.25	64.85	15.89	5900.00	0.0041	6.52	11.21	14.77	11.83	14.77	11.83
VANO 17	40.80	43.00	1328.09	292.13	1669.88	1203.36	77.02	18.87	5900.00	0.0041	1.19	10.03	69.79	17.10	5900.00	0.0041	6.78	11.94	14.77	11.83	14.77	11.94
VANO 17	42.00	44.00	1431.26	314.99	1734.10	1288.33	83.01	20.34	5900.00	0.0041	1.28	10.81	74.72	18.31	5900.00	0.0041	7.04	12.67	14.77	11.83	14.77	12.67
VANO 17	43.20	45.00	1535.21	338.08	1800.64	1373.18	89.03	21.81	5900.00	0.0041	1.37	11.59	79.64	19.51	5900.00	0.0041	7.31	13.41	14.77	11.83	14.77	13.41
VANO 17	43.20	46.00	1535.21	338.08	1800.64	1373.18	89.03	21.81	5900.00	0.0041	1.37	11.59	79.64	19.51	5900.00	0.0041	7.31	13.41	14.77	11.83	14.77	13.41
VANO 17	44.40	47.00	1639.87	361.39	1868.58	1457.90	95.10	23.30	5900.00	0.0041	1.47	12.38	84.55	20.71	5900.00	0.0041	7.59	14.15	14.77	11.83	14.77	14.15
VANO 17	45.60	48.00	1745.20	384.93	1939.24	1542.50	101.21	24.80	5900.00	0.0041	1.56	13.18	89.46	21.92	5900.00	0.0041	7.87	14.89	14.77	11.83	14.89	14.89
VANO 17	46.80	49.00	1851.13	408.69	2011.40	1626.97	107.36	26.30	5900.00	0.0041	1.66	13.98	94.36	23.12	5900.00	0.0041	8.16	15.64	14.77	11.83	15.64	15.64
VANO 17	48.00	50.00	2366.13	432.68	2085.47	1711.31	137.22	33.62	5900.00	0.0041	1.76	17.69	99.25	24.32	5900.00	0.0041	8.47	16.39	14.77	11.83	17.69	17.69
VANO 18	0.00	1.00	2316.53	710.45	2247.63	1717.21	134.35	32.91	5900.00	0.0041	2.88	17.90	99.59	24.40	5900.00	0.0041	9.12	16.76	14.77	11.83	17.90	17.90
VANO 18	1.20	2.00	1801.53	683.29	2173.12	1632.87	104.48	25.60	5900.00	0.0041	2.77	14.19	94.70	23.20	5900.00	0.0041	8.82	16.01	14.77	11.83	16.01	16.01
VANO 18	2.40	3.00	1698.44	656.36	2100.48	1548.41	98.50	24.13	5900.00	0.0041	2.66	13.40	89.80	22.00	5900.00	0.0041	8.53	15.26	14.77	11.83	15.26	15.26
VANO 18	3.60	4.00	1605.64	629.66	2029.71	1463.81	93.12	22.81	5900.00	0.0041	2.56	12.68	84.89	20.80	5900.00	0.0041	8.24	14.52	14.77	11.83	14.77	14.52
VANO 18	4.80	5.00	1513.50	603.18	1960.85	1379.08	87.77	21.50	5900.00	0.0041	2.45	11.98	79.98	19.59	5900.00	0.0041	7.96	13.78	14.77	11.83	14.77	13.78
VANO 18	4.80	6.00	1513.50	603.18	1960.85	1379.08	87.77	21.50	5900.00	0.0041	2.45	11.98	79.98	19.59	5900.00	0.0041	7.96	13.78	14.77	11.83	14.77	13.78
VANO 18	6.00	7.00	1422.07	576.92	1893.59	1294.24	82.47	20.21	5900.00	0.0041	2.34	11.27	75.06	18.39	5900.00	0.0041	7.69	13.04	14.77	11.83	14.77	13.04
VANO 18	7.20	8.00	1331.41	550.89	1828.83	1209.28	77.21	18.92	5900.00	0.0041	2.24	10.58	70.13	17.18	5900.00	0.0041	7.42	12.30	14.77	11.83	14.77	12.30
VANO 18	8.40	9.00	1232.18	525.09	1765.71	1124.20	71.46	17.51	5900.00	0.0041	2.13	9.82	65.20	15.97	5900.00	0.0041	7.17	11.57	14.77	11.83	14.77	11.83
VANO 18	9.60	10.00	1130.68	499.51	1704.47	1039.02	65.57	16.07	5900.00	0.0041	2.03	9.05	60.26	14.76	5900.00	0.0041	6.92	10.84	14.77	11.83	14.77	11.83
VANO 18	9.60	11.00	1130.68	499.51	1704.47	1039.02	65.57	16.07	5900.00	0.0041	2.03	9.05	60.26	14.76	5900.00	0.0041	6.92	10.84	14.77	11.83	14.77	11.83
VANO 18	10.80	12.00	1030.10	474.16	1645.13	953.74	59.74	14.64	5900.00	0.0041	1.92	8.28	55.31	13.55	5900.00	0.0041	6.68	10.11	14.77	11.83	14.77	11.83
VANO 18	12.00	13.00	930.46	449.04	1587.73	868.37	53.96	13.22	5900.00	0.0041	1.82	7.52	50.36	12.34	5900.00	0.0041	6.44	9.39	14.77	11.83	14.77	11.83
VANO 18	13.20	14.00	831.83	424.14	1532.17	782.91	48.24	11.82	5900.00	0.0041	1.72	6.77	45.40	11.12	5900.00	0.0041	6.22	8.67	14.77	11.83	14.77	11.83
VANO 18	14.40	15.00	734.22	399.46	1478.54	697.37	42.58	10.43	5900.00	0.0041	1.62	6.03	40.44	9.91	5900.00	0.0041	6.00	7.96	14.77	11.83	14.77	11.83
VANO 18	14.40	16.00	717.28	399.46	1478.54	680.42	41.60	10.19	5900.00	0.0041	1.62	5.91	39.46	9.67	5900.00	0.0041	6.00	7.83	14.77	11.82	14.77	11.83
VANO 18	15.60	17.00	620.74	375.01	1426.81	594.81	36.00	8.82	5900.00	0.0041	1.52	5.17	34.50	8.45	5900.00	0.0041	5.79	7.12	14.77	11.83	14.77	11.83
VANO 18	16.80	18.00	525.30	350.79	1376.93	509.13	30.46	7.46	5900.00	0.0041	1.42	4.44	29.53	7.23	5900.00	0.0041	5.59	6.41	14.77	11.83	14.77	11.83
VANO 18	18.00	19.00	430.99	326.79	1329.03	423.40	25.00	6.12	5900.00	0.0041	1.33	3.73	24.55	6.02	5900.00	0.0041	5.39	5.71	14.77	11.83	14.77	11.83
VANO 18	19.20	20.00	489.77	177.07	1283.13	337.62	28.40	6.96	5900.00	0.0041	0.72	3.84	19.58	4.80	5900.00	0.0041	5.21	5.00	14.77	11.83	14.77	11.83
VANO 18	19.20	21.00	489.77	177.07	1283.13	337.62	28.40	6.96	5900.00	0.0041	0.72	3.84	19.58	4.80	5900.00	0.0041	5.21	5.00	14.77	11.83	14.77	11.83
VANO 18	20.40	22.00	567.43	166.70	1239.33	251.80	32.91	8.06	5900.00	0.0041	0.68	4.37	14.60	3.58	5900.00	0.0041	5.03	4.30	14.77	11.83	14.77	11.83
VANO 18	21.60	23.00	646.40	156.32	1197.63	165.96	37.49	9.18	5900.00	0.0041	0.63	4.91	9.62	2.36	5900.00	0.0041	4.86	3.61	14.77	11.83	14.77	11.83
VANO 18	22.80	24.00	726.69	145.95	1158.03	80.10	42.14	10.33	5900.00	0.0041	0.59	5.46	4.65	1.14	5900.00	0.0041	4.70	2.92	14.77	11.83	14.77	11.83
VANO 18	24.00	25.00	399.83	135.57	1120.54	5.78	23.19	5.68	5900.00	0.0041	0.55	3.12	0.34	0.08	5900.00	0.0041	4.55	2.32	14.77	11.83	14.77	11.83
VANO 18	24.00	26.00	399.83	135.57	1120.54	5.78	23.19	5.68	5900.00	0.0041	0.55	3.12	0.34	0.08	5900.00	0.0041	4.55	2.32	14.77	11.83	14.77	11.83
VANO 18	25.20	27.00	711.62	187.04	1096.81	92.56	41.27	10.11	5900.00	0.0041	0.76	5.44	5.37	1.32	5900.00	0.0041	4.45	2.88	14.77	11.83	14.77	11.83
VANO 18	26.40	28.00	631.31	164.70	1111.62	177.51	36.61	8.97	5900.00	0.0041	0.67	4.82	10.29	2.52	5900.00	0.0041	4.51	3.52	14.77	11.83	14.77	11.83
VANO 18	27.60	29.00	552.32	142.63	1143.11	263.36	32.03	7.85	5900.00	0.0041	0.58	4.21	15.27	3.74	5900.00	0.0041	4.64	4.19	14.77	11.83	14.77	11.83
VANO 18	28.80	30.00	474.65	120.83	1182.62	349.17	27.53	6.74	5900.00	0.0041	0.49	3.62	20.25	4.96	5900.00	0.0041	4.80	4.88	14.77	11.83	14.77	11.83
VANO 18	28.80	31.00	474.65	120.83	1182.62	349.17	27.53	6.74	5900.00	0.0041	0.49	3.62	20.25	4.96	5900.00	0.0041	4.80	4.88	14.77	11.83	14.77	11.83
VANO 18	30.00	32.00	441.60	111.38	1224.68	434.95	25.61	6.27	5900.00	0.0041	0.45	3.36	25.22	6.18	5900.00	0.0041	4.97	5.58	14.77	11.83	14.77	11.83
VANO 18	31.20	33.00	535.90	124.89	1268.81	520.69	31.08	7.61	5900.00	0.0041	0.51	4.06	30.20	7.40	5900.00	0.0041	5.15	6.27	14.77	11.83	14.77	11.83
VANO 18	32.40	34.00	631.32	143.44	1314.91	606.36	36.61	8.97	5900.00	0.0041	0.58	4.78	35.17	8.62	5900.00	0.0041	5.34	6.98	14.77	11.83	14.77	11.83
VANO 18	33.60	35.00	727.84	163.77	1365.87	691.98	42.21	10.34	5900.00	0.0041	0.66	5.50	40.13	9.83	5900.00	0.0041	5.54	7.69	14.77	11.83	14.77	11.83
VANO 18	33.60	36.00	727.84	163.77	1365.87	691.98	42.21	10.34	5900.00	0.0041	0.66	5.50	40.13	9.83	5900.00	0.0041	5.54	7.69	14.77	11.83	14.77	11.83
VANO 18	34.80	37.00	825.43	184.39	1418.94	777.52	47.87	11.73	5900.00	0.0041	0.75	6.24	45.09	11.05	5900.00	0.0041	5.76	8.40	14.77	11.83	14.77	11.83
VANO 18	36.00	38.00	924.05	205.23	1473.91	862.98	53.59	13.13	5900.00	0.0041	0.83	6.98	50.05	12.26	5900.00	0.0041	5.98	9.12	14.77	11.83	14.77	11.83
VANO 18	37.20	39.00	1023.67	226.30	1530.71	948.36	59.37	14.54	5900.00	0.0041	0.92	7.73	55.00	13.47	5900.00	0.0041	6.21	9.84	14.77	11.83	14.77	11.83
VANO 18	38.40	40.00	1124.25	247.59	1589.54	1033.64	65.20	15.97	5900.00	0.0041	1.01	8.49	59.95	14.69	5900.00	0.0041	6.45	10.57	14.77	11.83	14.77	11.83
VANO 18	38.40	41.00	1124.25	247.59	1589.54	1033.64	65.20	15.97	5900.00	0.0041	1.01	8.49	59.95	14.69	5900.00	0.0041	6.45	10.57	14.77	11.83	14.77	11.83
VANO 18	39.60	42.00	1225.73	269.50	1650.24	1118.82	71.09	17.42	5900.00	0.0041	1.09	9.25	64.89	15.90	5900.00	0.0041	6.70	11.30	14.77	11.83	14.77	11.83
VANO 18	40.80	43.00	1328.09	292.13	1712.83	1203.89	77.02	18.87	5900.00	0.0041	1.19	10.03	69.82	17.11	5900.00	0.0041	6.95	12.03	14.77	11.83	14.77	12.03
VANO 18	42.00	44.00	1431.26	314.99	1777.3	1288.86	83.01	20.34	5900.00	0.0041	1.28	10.81	74.75	18.31	5900.00	0.0041	7.21	12.76	14.77	11.83	14.77	12.76
VANO 18	43.20	45.00	1535.21	338.08	1843.70	1373.70	89.03	21.81	5900.00	0.0041	1.37	11.59	79.67	19.52	5900.00	0.0041	7.48	13.50	14.77	11.83	14.77	13.50
VANO 18	43.20	46.00	1535.21	338.08	1843.70	1373.70	89.03	21.81	5900.00	0.0041	1.37	11.59	79.67	19.52	5900.00	0.0041	7.48	13.50	14.77	11.83	14.77	13.50
VANO 18	44.40	47.00	1639.87	361.39	1911.99	1458.43	95.10	23.30	5900.00	0.0041	1.47	12.38	84.58	20.72	5900.00	0.0041	7.76	14.24	14.77	11.83	14.77	14.24
VANO 18	45.60	48.00	1745.20	384.93	1982.18	1543.03	101.21	24.80	5900.00	0.0041	1.56	13.18	89.49	21.92	5900.00	0.0041	8.05	14.99	14.77	11.83	14.99	14.99
VANO 18	46.80	49.00	1851.13	408.69	2054.28	1627.50	107.36	26.30	5900.00	0.0041	1.66	13.98	94.39	23.12	5900.00	0.0041	8.34	15.73	14.77	11.83	15.73	15.73

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE LOSA INFERIOR EN ZONA CENTRAL

CARACT. RASANTE		CARACTERISTICAS TORSOR			
M est (S6)=	1.16	fyd armad =	40816.3	Ae =	20.67
Inercia XX =	20.0	fck (t/m2) =	4081.6	he =	0.25
fyd cercos =	40816	fpk (t/m2) =	190000	ue =	18.55
cotg tetha =	1	cotg tetha =	1.46	Ap=	0.0342
K rasant =	0.058	Beta comp=	1.44	K tors Tu3 =	1.526
Canto sec=	0.33	K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC — ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC — ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	Dos caras Us (t)	As ras/m	Tu1	K tors Tu2	Dos caras As (Tu2)	Una cara As (Rd+Td)	FLEXIÓN TRANS As ext	As int	As ext	As int
VANO 19	0.00	1.00	2316.53	710.45	2110.42	1719.54	134.35	32.91	5900.00	0.0041	2.88	17.90	99.72	24.43	5900.00	0.0041	8.57	16.50	14.77	11.83	17.90	17.90
VANO 19	1.20	2.00	1801.53	683.29	2036.10	1635.21	104.48	25.60	5900.00	0.0041	2.77	14.19	94.83	23.23	5900.00	0.0041	8.26	15.75	14.77	11.83	15.75	15.75
VANO 19	2.40	3.00	1698.44	656.36	1963.69	1550.74	98.50	24.13	5900.00	0.0041	2.66	13.40	89.93	22.03	5900.00	0.0041	7.97	15.00	14.77	11.83	15.00	15.00
VANO 19	3.60	4.00	1605.64	629.66	1893.18	1466.14	93.12	22.81	5900.00	0.0041	2.56	12.68	85.03	20.83	5900.00	0.0041	7.68	14.26	14.77	11.83	14.77	14.26
VANO 19	4.80	5.00	1513.50	603.18	1824.57	1381.42	87.77	21.50	5900.00	0.0041	2.45	11.98	80.11	19.63	5900.00	0.0041	7.41	13.52	14.77	11.83	14.77	13.52
VANO 19	4.80	6.00	1513.50	603.18	1824.57	1381.42	87.77	21.50	5900.00	0.0041	2.45	11.98	80.11	19.63	5900.00	0.0041	7.41	13.52	14.77	11.83	14.77	13.52
VANO 19	6.00	7.00	1422.07	576.92	1757.87	1296.57	82.47	20.21	5900.00	0.0041	2.34	11.27	75.19	18.42	5900.00	0.0041	7.14	12.78	14.77	11.83	14.77	12.78
VANO 19	7.20	8.00	1331.41	550.89	1693.08	1211.61	77.21	18.92	5900.00	0.0041	2.24	10.58	70.27	17.22	5900.00	0.0041	6.87	12.04	14.77	11.83	14.77	12.04
VANO 19	8.40	9.00	1232.18	525.09	1630.18	1126.54	71.46	17.51	5900.00	0.0041	2.13	9.82	65.33	16.01	5900.00	0.0041	6.62	11.31	14.77	11.83	14.77	11.83
VANO 19	9.60	10.00	1130.68	499.51	1569.19	1041.36	65.57	16.07	5900.00	0.0041	2.03	9.05	60.39	14.80	5900.00	0.0041	6.37	10.58	14.77	11.83	14.77	11.83
VANO 19	9.60	11.00	1130.68	499.51	1569.19	1041.36	65.57	16.07	5900.00	0.0041	2.03	9.05	60.39	14.80	5900.00	0.0041	6.37	10.58	14.77	11.83	14.77	11.83
VANO 19	10.80	12.00	1030.10	474.16	1510.11	956.08	59.74	14.64	5900.00	0.0041	1.92	8.28	55.45	13.58	5900.00	0.0041	6.13	9.86	14.77	11.83	14.77	11.83
VANO 19	12.00	13.00	930.46	449.04	1452.32	870.71	53.96	13.22	5900.00	0.0041	1.82	7.52	50.50	12.37	5900.00	0.0041	5.90	9.13	14.77	11.83	14.77	11.83
VANO 19	13.20	14.00	831.83	424.14	1397.54	785.24	48.24	11.82	5900.00	0.0041	1.72	6.77	45.54	11.16	5900.00	0.0041	5.67	8.42	14.77	11.83	14.77	11.83
VANO 19	14.40	15.00	734.22	399.46	1345.39	699.70	42.58	10.43	5900.00	0.0041	1.62	6.03	40.58	9.94	5900.00	0.0041	5.46	7.70	14.77	11.83	14.77	11.83
VANO 19	14.40	16.00	717.28	399.46	1345.39	682.76	41.60	10.19	5900.00	0.0041	1.62	5.91	39.60	9.70	5900.00	0.0041	5.46	7.58	14.77	11.83	14.77	11.83
VANO 19	15.60	17.00	620.74	375.01	1297.38	597.15	36.00	8.82	5900.00	0.0041	1.52	5.17	34.63	8.48	5900.00	0.0041	5.27	6.88	14.77	11.83	14.77	11.83
VANO 19	16.80	18.00	525.30	350.79	1250.36	511.47	30.46	7.46	5900.00	0.0041	1.42	4.44	29.66	7.27	5900.00	0.0041	5.08	6.17	14.77	11.83	14.77	11.83
VANO 19	18.00	19.00	430.99	326.79	1206.15	425.74	25.00	6.12	5900.00	0.0041	1.33	3.73	24.69	6.05	5900.00	0.0041	4.90	5.47	14.77	11.83	14.77	11.83
VANO 19	19.20	20.00	489.77	177.07	1164.34	339.96	28.40	6.96	5900.00	0.0041	0.72	3.84	19.72	4.83	5900.00	0.0041	4.73	4.78	14.77	11.83	14.77	11.83
VANO 19	19.20	21.00	489.77	177.07	1164.34	339.96	28.40	6.96	5900.00	0.0041	0.72	3.84	19.72	4.83	5900.00	0.0041	4.73	4.78	14.77	11.83	14.77	11.83
VANO 19	20.40	22.00	567.43	166.70	1127.38	254.15	32.91	8.06	5900.00	0.0041	0.68	4.37	14.74	3.61	5900.00	0.0041	4.58	4.09	14.77	11.83	14.77	11.83
VANO 19	21.60	23.00	646.40	156.32	1096.10	168.30	37.49	9.18	5900.00	0.0041	0.63	4.91	9.76	2.39	5900.00	0.0041	4.45	3.42	14.77	11.83	14.77	11.83
VANO 19	22.80	24.00	726.69	145.95	1088.15	83.36	42.14	10.33	5900.00	0.0041	0.59	5.46	4.83	1.18	5900.00	0.0041	4.42	2.80	14.77	11.83	14.77	11.83
VANO 19	24.00	25.00	399.83	135.57	1115.73	3.98	23.19	5.68	5900.00	0.0041	0.55	3.12	0.23	0.06	5900.00	0.0041	4.53	2.29	14.77	11.83	14.77	11.83
VANO 19	24.00	26.00	399.83	135.57	1115.73	3.98	23.19	5.68	5900.00	0.0041	0.55	3.12	0.23	0.06	5900.00	0.0041	4.53	2.29	14.77	11.83	14.77	11.83
VANO 19	25.20	27.00	711.62	187.04	1152.35	89.30	41.27	10.11	5900.00	0.0041	0.76	5.44	5.18	1.27	5900.00	0.0041	4.68	2.97	14.77	11.83	14.77	11.83
VANO 19	26.40	28.00	631.31	164.70	1192.27	175.16	36.61	8.97	5900.00	0.0041	0.67	4.82	10.16	2.49	5900.00	0.0041	4.84	3.66	14.77	11.83	14.77	11.83
VANO 19	27.60	29.00	552.32	142.63	1233.11	261.01	32.03	7.85	5900.00	0.0041	0.58	4.21	15.14	3.71	5900.00	0.0041	5.01	4.36	14.77	11.83	14.77	11.83
VANO 19	28.80	30.00	474.65	120.83	1277.35	346.82	27.53	6.74	5900.00	0.0041	0.49	3.62	20.11	4.93	5900.00	0.0041	5.18	5.06	14.77	11.83	14.77	11.83
VANO 19	28.80	31.00	474.65	120.83	1277.35	346.82	27.53	6.74	5900.00	0.0041	0.49	3.62	20.11	4.93	5900.00	0.0041	5.18	5.06	14.77	11.83	14.77	11.83
VANO 19	30.00	32.00	441.60	111.38	1322.10	432.60	25.61	6.27	5900.00	0.0041	0.45	3.36	25.09	6.15	5900.00	0.0041	5.37	5.76	14.77	11.83	14.77	11.83
VANO 19	31.20	33.00	535.90	124.89	1370.45	518.33	31.08	7.61	5900.00	0.0041	0.51	4.06	30.06	7.36	5900.00	0.0041	5.56	6.46	14.77	11.83	14.77	11.83
VANO 19	32.40	34.00	631.32	143.44	1420.1	604.01	36.61	8.97	5900.00	0.0041	0.58	4.78	35.03	8.58	5900.00	0.0041	5.76	7.17	14.77	11.83	14.77	11.83
VANO 19	33.60	35.00	727.84	163.77	1471.57	689.62	42.21	10.34	5900.00	0.0041	0.66	5.50	39.99	9.80	5900.00	0.0041	5.97	7.89	14.77	11.83	14.77	11.83
VANO 19	33.60	36.00	727.84	163.77	1471.57	689.62	42.21	10.34	5900.00	0.0041	0.66	5.50	39.99	9.80	5900.00	0.0041	5.97	7.89	14.77	11.83	14.77	11.83
VANO 19	34.80	37.00	825.43	184.39	1524.94	775.16	47.87	11.73	5900.00	0.0041	0.75	6.24	44.95	11.01	5900.00	0.0041	6.19	8.60	14.77	11.83	14.77	11.83
VANO 19	36.00	38.00	924.05	205.23	1580.11	860.62	53.59	13.13	5900.00	0.0041	0.83	6.98	49.91	12.23	5900.00	0.0041	6.41	9.32	14.77	11.83	14.77	11.83
VANO 19	37.20	39.00	1023.67	226.30	1637.78	945.99	59.37	14.54	5900.00	0.0041	0.92	7.73	54.86	13.44	5900.00	0.0041	6.65	10.04	14.77	11.83	14.77	11.83
VANO 19	38.40	40.00	1124.25	247.59	1696.46	1031.27	65.20	15.97	5900.00	0.0041	1.01	8.49	59.81	14.65	5900.00	0.0041	6.89	10.77	14.77	11.83	14.77	11.83
VANO 19	38.40	41.00	1124.25	247.59	1696.46	1031.27	65.20	15.97	5900.00	0.0041	1.01	8.49	59.81	14.65	5900.00	0.0041	6.89	10.77	14.77	11.83	14.77	11.83
VANO 19	39.60	42.00	1225.73	269.50	1757.44	1116.45	71.09	17.42	5900.00	0.0041	1.09	9.25	64.75	15.86	5900.00	0.0041	7.13	11.50	14.77	11.83	14.77	11.83
VANO 19	40.80	43.00	1328.09	292.13	1820.13	1201.52	77.02	18.87	5900.00	0.0041	1.19	10.03	69.68	17.07	5900.00	0.0041	7.39	12.23	14.77	11.83	14.77	12.23
VANO 19	42.00	44.00	1431.26	314.99	1885.12	1286.49	83.01	20.34	5900.00	0.0041	1.28	10.81	74.61	18.28	5900.00	0.0041	7.65	12.97	14.77	11.83	14.77	12.97
VANO 19	43.20	45.00	1535.21	338.08	1951.11	1371.33	89.03	21.81	5900.00	0.0041	1.37	11.59	79.53	19.48	5900.00	0.0041	7.92	13.70	14.77	11.83	14.77	13.70
VANO 19	43.20	46.00	1535.21	338.08	1951.11	1371.33	89.03	21.81	5900.00	0.0041	1.37	11.59	79.53	19.48	5900.00	0.0041	7.92	13.70	14.77	11.83	14.77	13.70
VANO 19	44.40	47.00	1639.87	361.39	2020.41	1456.05	95.10	23.30	5900.00	0.0041	1.47	12.38	84.44	20.69	5900.00	0.0041	8.20	14.44	14.77	11.83	14.77	14.44
VANO 19	45.60	48.00	1745.20	384.93	2090.51	1540.65	101.21	24.80	5900.00	0.0041	1.56	13.18	89.35	21.89	5900.00	0.0041	8.49	15.19	14.77	11.83	15.19	15.19
VANO 19	46.80	49.00	1851.13	408.69	2163.31	1625.12	107.36	26.30	5900.00	0.0041	1.66	13.98	94.25	23.09	5900.00	0.0041	8.78	15.94	14.77	11.83	15.94	15.94
VANO 19	48.00	50.00	2366.13	432.68	2237.02	1709.45	137.22	33.62	5900.00	0.0041	1.76	17.69	99.14	24.29	5900.00	0.0041	9.03	16.69	14.77	11.83	17.69	17.69
VANO 20	0.00	1.00	2308.18	418.89	1968.64	1715.72	133.86	32.80	5900.00	0.0041	1.70	17.25	99.50	24.38	5900.00	0.0041	7.99	16.18	14.77	11.83	17.25	17.25
VANO 20	1.20	2.00	1793.23	393.69	1896.11	1631.38	104.00	25.48	5900.00	0.0041	1.60	13.54	94.61	23.18	5900.00	0.0041	7.70	15.44	14.77	11.83	15.44	15.44
VANO 20	2.40	3.00	1687.35	369.93	1826.73	1546.90	97.86	23.97	5900.00	0.0041	1.50	12.74	89.71	21.98	5900.00	0.0041	7.42	14.70	14.77	11.83	14.77	14.70
VANO 20	3.60	4.00	1582.08	346.40	1759.25	1462.30	91.75	22.48	5900.00	0.0041	1.41	11.94	84.81	20.78	5900.00	0.0041	7.14	13.96	14.77	11.83	14.77	13.96
VANO 20	4.80	5.00	1477.47	323.10	1693.69	1377.57	85.68	20.99	5900.00	0.0041	1.31	11.15	79.89	19.57	5900.00	0.0041	6.88	13.22	14.77	11.83	14.77	13.22
VANO 20	4.80	6.00	1477.47	323.10	1693.69	1377.57	85.68	20.99	5900.00	0.0041	1.31	11.15	79.89	19.57	5900.00	0.0041	6.88	13.22	14.77	11.83	14.77	13.22
VANO 20	6.00	7.00	1373.58	300.01	1630.05	1292.72	79.66	19.52	5900.00	0.0041	1.22	10.37	74.97	18.37	5900.00	0.0041	6.62	12.49	14.77	11.83	14.77	12.49
VANO 20	7.20	8.00	1269.49	277.15	1568.31	1207.76	73.62	18.04	5900.00	0.0041	1.13	9.58	70.04	17.16	5900.00	0.0041	6.37	11.76	14.77	11.83	14.77	11.83
VANO 20	8.40	9.00	1167.19	254.54	1508.50	1122.68	67.69	16.58	5900.00	0.0041	1.03	8.81	65.11	15.95	5900.00	0.0041	6.12	11.04	14.77	11.83	14.77	11.83
VANO 20	9.60	10.00	1065.76	232.20	1450.69	1037.50	61.81	15.14	5900.00	0.0041	0.94	8.04	60.17	14.74	5900.00	0.0041	5.89	10.31	14.77	11.83	14.77	11.83
VANO 20	9.60	11.00	1065.76	232.20	1450.69	1037.50	61.81	15.14	5900.00	0.0041	0.94	8.04	60.17	14.74	5900.00	0.0041	5.89	10.31	14.77	11.83	14.77	11.83
VANO 20	10.80	12.00	965.23	210.50	1395.15	952.21	55.98	13.71	5900.00	0.0041	0.85	7.28	55.22	13.53	5900.00	0.0041	5.66	9.60	14.77	11.83	14.77	11.83
VANO 20	12.00	13.00	865.66	189.50	1342.02	866.84	50.20	12.30	5900.00	0.0041	0.77	6.53	50.27	12.32	5900.00	0.0041	5.45	8.88	14.77	11.83	14.77	11.83
VANO 20	13.20	14.00	767.09	168.72	1290.81	781.37	44.49	10.90	5900.00	0.0041	0.68	5.79	45.32	11.10	5900.00	0.0041	5.24	8.17	14.77	11.83	14.77	11.83
VANO 20	14.40	15.00	669.55	149.06	1242.43	695.83	38.83	9.51	5900.00	0.0041	0.61	5.06	40.35	9.89	5900.00	0.0041	5.04	7.46	14.77	11.83	14.77	11.83
VANO 20	14.40	16.00	652.61	149.06	1242.43	678.88	37.85	9.27	5900.00	0.0041	0.61	4.94	39.37	9.65	5900.00	0.0041	5.04	7.34	14.77	11.83	14.77	11.83
VANO 20	15.60	17.00	556.13	135.09	1201.33	593.27	32.25	7.90	5900.00	0.0041	0.55	4.23	34.41	8.43	5900.00	0.0041	4.88	6.65	14.77	11.83	14.77	11.83
VANO 20	16.80	18.00	460.75	121.34	1162.21	507.59	26.72	6.55	5900.00	0.0041	0.49	3.52	29.44	7.21	5900.00	0.0041	4.72	5.96	14.77	11.83	14.77	11.83
VANO 20	18.00	19.00	366.50	107.81	1125.02	421.85	21.26	5.21	5900.00	0.0041	0.44	2.82	24.47	5.99	5900.00	0.0041	4.57	5.28	14.77	11.83	14.77	11.83
VANO 20	19.20	20.00	415.94	111.37	1089.83	336.07	24.12	5.91	5900.00	0.0041	0.45	3.18	19.49	4.78	5900.00	0.0041	4.42	4.60	14.77	11.83	14.77	11.83
VANO 20	19.20	21.00	415.94	111.37	1089.83	336.07	24.12	5.91	5900.00	0.0041	0.45	3.18	19.49	4.78	5900.00	0.0041	4.42	4.60	14.77	11.83	14.77	11.83
VANO 20	20.40	22.00	496.78	133.21	1090.03	252.92	28.81	7.06	5900.00	0.0041	0.54	3.80	14.67	3.59	5900.00	0.0041	4.42	4.01	14.77	11.83	14.77	11.83
VANO 20	21.60	23.00	578.93	155.32	1104.07	166.18	33.57	8.23	5900.00	0.0041	0.63	4.43	9.64	2.36	5900.00	0.0041	4.48	3.42	14.77	11.83	14.77	11.83
VANO 20	22.80	24.00	662.40	177.71	1129.43	79.41	38.42	9.41	5900.00	0.0041	0.72	5.07	4.61	1.13	5900.00	0.0041	4.58	2.86	14.77	11.83	14.77	11.83
VANO 20	24.00	25.00	338.74	200.37	1164.56	7.33	19.64	4.81	5900.00	0.0041	0.81	2.81	0.42	0.10	5900.00	0.0041	4.73	2.42	14.77	11.83	14.77	11.83
VANO 20	24.00	26.00	338.74	200.37	1164.56	7.33	19.64	4.81	5900.00	0.0041	0.81	2.81	0.42	0.10	5900.00	0.0041	4.73	2.42	14.77	11.83	14.77	11.83
VANO 20	25.20	27.00	646.53	135.02	1201.80	93.20	37.50	9.19	5900.00	0.0041	0.55	4.87	5.41	1.32	5900.00	0.0041	4.88	3.10	14.77	11.83	14.77	11.83
VANO 20	26.40	28.00	563.13	145.47	1241.19	179.06	32.66	8.00	5900.00	0.0041	0.59	4.30	10.38	2.54	5900.00	0.0041	5.04	3.79	14.77	11.83	14.77	11.83
VANO 20	27.60	29.00	481.05	155.92	1282.63	264.90	27.90	6.84	5900.00	0.0041	0.63	3.73	15.36	3.76	5900.00	0.0041	5.21	4.49	14.77	11.83	14.77	11.83
VANO 20	28.80	30.00	400.28	170.28	1326.2	350.72	23.21	5.69	5900.00	0.0041	0.69	3.19	20.34	4.98	5900.00	0.0041	5.38	5.18	14.77	11.83	14.77	11.83
VANO 20	28.80	31.00	400.28	170.28	1326.2	350.72	23.21	5.69	5900.00	0.0041	0.69	3.19	20.34	4.98	5900.00	0.0041	5.38	5.18	14.77	11.83	14.77	11.83
VANO 20	30.00	32.00	382.92	317.64	1371.97	436.50	22.21	5.44	5900.00	0.0041	1.29	3.37	25.31	6.20	5900.00	0.0041	5.57	5.89	14.77	11.83	14.77	11.83
VANO 20	31.20	33.00	477.23	341.68	1419.63	522.23	27.68	6.78	5900.00	0.0041	1.39	4.08	30.29	7.42	5900.00	0.0041	5.76	6.59	14.77	11.83	14.77	11.83
VANO 20	32.40	34.00	572.66	365.91	1469.20	607.90	33.21	8.14	5900.00	0.0041	1.49	4.81	35.25	8.64	5900.00	0.0041	5.96	7.30	14.77	11.83	14.77	11.83
VANO 20	33.60	35.00	669.20	390.38	1520.80	693.51	38.81	9.51	5900.00	0.0041	1.58	5.55	40.22	9.85	5900.00	0.0041	6.17	8.01	14.77	11.83	14.77	11.83
VANO 20	33.60	36.00	669.20	390.38	1520.80	693.51	38.81	9.51	5900.00	0.0041	1.58	5.55	40.22	9.85	5900.00	0.0041	6.17	8.01	14.77	11.83	14.77	11.83
VANO 20	34.80	37.00	766.79	415.08	1574.25	779.05	44.47	10.90	5900.00	0.0041	1.68	6.29	45.18	11.07	5900.00	0.0041	6.39	8.73	14.77	11.83	14.77	11.83
VANO 20	36.00	38.00	865.42	439.99	1629.61	864.51	50.19	12.30	5900.00	0.0041	1.79	7.04	50.14	12.28	5900.00	0.0041	6.61	9.45	14.77	11.83	14.77	11.83
VANO 20	37.20	39.00	965.04	465.14	1686.85	949.88	55.97	13.71	5900.00	0.0041	1.89	7.80	55.09	13.50	5900.00	0.0041	6.85	10.17	14.77	11.83	14.77	11.83
VANO 20	38.40	40.00	1065.61	490.50	1746.03	1035.15	61.80	15.14	5900.00	0.0041	1.99	8.57	60.03	14.71	5900.00	0.0041	7.09	10.90	14.77	11.83	14.77	11.83
VANO 20	38.40	41.00	1065.61	490.50	1746.03	1035.15	61.80	15.14	5900.00	0.0041	1.99	8.57	60.03	14.71	5900.00	0.0041	7.09	10.90	14.77	11.83	14.77	11.83
VANO 20	39.60	42.00	1167.09	516.10	1807.17	1120.33	67.68	16.58	5900.00	0.0041	2.09	9.34	64.97	15.92	5900.00	0.0041	7.34	11.63	14.77	11.83	14.77	11.83
VANO 20	40.80	43.00	1269.43	541.91	1870.12	1205.40	73.62	18.04	5900.00	0.0041	2.20	10.12	69.91	17.13	5900.00	0.0041	7.59	12.36	14.77	11.83	14.77	12.36
VANO 20	42.00	44.00	1372.60	567.95	1935.06	1290.35	79.60	19.50	5900.00	0.0041	2.31	10.90	74.83	18.33	5900.00	0.0041	7.85	13.09	14.77	11.83	14.77	13.09
VANO 20	43.20	45.00	1476.52	594.21	2001.92	1375.19	85.63	20.98	5900.00	0.0041	2.41	11.70	79.75	19.54	5900.00	0.0041	8.13	13.83	14.77	11.83	14.77	13.83
VANO 20	43.20	46.00	1476.52	594.21	2001.92	1375.19	85.63	20.98	5900.00	0.0041	2.41	11.70	79.75	19.54	5900.00	0.0041	8.13	13.83	14.77	11.83	14.77	13.83
VANO 20	44.40	47.00	1581.17	620.70	2070.66	1459.91	91.70	22.47	5900.00	0.0041	2.52	12.49	84.67	20.74	5900.00	0.0041	8.41	14.57	14.77	11.83	14.77	14.57
VANO 20	45.60	48.00	1686.47	647.41	2141.31	1544.50	97.81	23.96	5900.00	0.0041	2.63	13.30	89.57	21.95	5900.00	0.0041	8.69	15.32	14.77	11.83	15.32	15.32
VANO 20	46.80	49.00	1792.38	674.34	2213.87	1628.96	103.95	25.47	5900.00	0.0041	2.74	14.10	94.47	23.15	5900.00	0.0041	8.99	16.07	14.77	11.83	16.07	16.07

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

ARMADO DE LOSA INFERIOR EN ZONA CENTRAL

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20 008	24.9687
ys	1 495	1 754
yi	2 505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28 5	28 5	28 5
% TESADO	0 8	0 75	75%
% PERDIDA	0.16	0 2	20%
COEF SEG	1	1	1.0

CARACT. RASANTE	
M est (S6)=	1.16
Inercia XX =	20.0
fyd cercos =	40816
colg tetha =	1
K rasant =	0.058
Canto sec=	0.33

CARACTERISTICAS TORSOR			
fyd armad =	40816.3	Ae =	20.67
fck (t/m2) =	4081.6	he =	0.25
fpk (t/m2) =	190000	ue =	18.55
colg tetha =	1.46	Ap=	0.0342
Beta comp=	1.44	K tors Tu3 =	1 526
K tors Tu2 =	0.0041	Tu3(Pret) =	388.12

ARMADO DE CORTANTE MÁXIMO Y TORSOR CONC

ARMADO DE TORSOR MÁXIMO Y CORTANTE CONC

ARMADO DEFINITIV

			Hipótesis max cortante		Hipótesis max torsor		Dos caras		Una cara		Dos caras		Una cara	FLEXIÓN TRANS			
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	Us (t)	As ras/m	Tu1	K tors Tu2	As (Tu2)	As (Rd+Td)	As ext	As int	As ext	As int
VANO 21	0.00	1 00	2295 31	303 03	1698 01	1721.99	133.12	32 61	5900 00	0 0041	1.23	16.92	99 87	24 47	5900.00	0.0041	6.89	15.68	14.77	11.83	16.92	16 92
VANO 21	1.20	2 00	1780 31	286 39	1634 34	1637 62	103.25	25.30	5900 00	0 0041	1.16	13.23	94.97	23 27	5900.00	0.0041	6 63	14.95	14.77	11.83	14.95	14.95
VANO 21	2.40	3 00	1674.38	269 99	1572.62	1553.13	97 10	23.79	5900.00	0 0041	1.10	12.44	90.07	22.07	5900.00	0.0041	6.38	14.23	14.77	11.83	14.77	14.23
VANO 21	3.60	4 00	1569.07	253 81	1512 87	1468.50	91.00	22 29	5900 00	0.0041	1.03	11 66	85.16	20 87	5900.00	0.0041	6 14	13.50	14.77	11.83	14.77	13.50
VANO 21	4.80	5 00	1464.42	237 86	1455.07	1383.75	84.93	20.81	5900.00	0 0041	0 97	10.89	80.25	19.66	5900.00	0.0041	5 91	12.78	14.77	11.83	14.77	12.78
VANO 21	4.80	6 00	1464 42	237 86	1455.07	1383.75	84 93	20.81	5900.00	0 0041	0 97	10.89	80.25	19 66	5900.00	0.0041	5 91	12.78	14.77	11.83	14.77	12.78
VANO 21	6.00	7 00	1360.51	222 14	1399.24	1298.88	78.90	19 33	5900.00	0 0041	0.90	10.12	75.33	18 46	5900.00	0.0041	5 68	12.07	14.77	11.83	14.77	12.07
VANO 21	7.20	8 00	1257.38	206.65	1345 36	1213.90	72 92	17.87	5900.00	0.0041	0 84	9 35	70.40	17 25	5900.00	0.0041	5.46	11.35	14.77	11.83	14.77	11.83
VANO 21	8.40	9 00	1155.08	196.47	1293 44	1128 80	66.99	16.41	5900 00	0 0041	0.80	8.60	65.46	16 04	5900.00	0.0041	5.25	10.64	14.77	11.83	14.77	11.83
VANO 21	9.60	10 00	1053.66	206.80	1243.48	1043.59	61.11	14.97	5900.00	0.0041	0 84	7.91	60.52	14 83	5900.00	0.0041	5.05	9.94	14.77	11.83	14.77	11.83
VANO 21	9.60	11 00	1053.66	206.80	1243 48	1043.59	61.11	14 97	5900.00	0.0041	0.84	7.91	60.52	14 83	5900.00	0.0041	5.05	9.94	14.77	11.83	14.77	11.83
VANO 21	10.80	12 00	953.16	217.13	1195 48	958.29	55.28	13.54	5900.00	0 0041	0 88	7.21	55.58	13.62	5900.00	0.0041	4.85	9.23	14.77	11.83	14.77	11.83
VANO 21	12.00	13 00	853 63	227.45	1162 21	852.42	49.51	12.13	5900.00	0 0041	0.92	6 53	49.44	12.11	5900.00	0.0041	4.72	8.41	14.77	11.83	14.77	11.83
VANO 21	13.20	14 00	755 10	237.78	1162 23	795.61	43.79	10.73	5900.00	0 0041	0.97	5.85	46.14	11.30	5900.00	0.0041	4.72	8.01	14.77	11.83	14.77	11.83
VANO 21	14.40	15 00	657 62	248 11	1164.98	709 15	38.14	9.34	5900.00	0 0041	1.01	5.18	41 13	10.08	5900.00	0.0041	4.73	7.40	14.77	11.83	14.77	11.83
VANO 21	14.40	16 00	640 68	248 11	1164.98	692.21	37.16	9.10	5900.00	0 0041	1.01	5 06	40 14	9 84	5900.00	0.0041	4.73	7.28	14.77	11.83	14.77	11.83
VANO 21	16.80	17 00	544 28	258 43	1169.74	605.67	31.57	7.73	5900 00	0 0041	1.05	4.39	35.13	8 61	5900.00	0.0041	4.75	6.68	14.77	11.83	14.77	11.83
VANO 21	16.80	18 00	448 99	268 76	1176 50	519 08	26.04	6.38	5900.00	0.0041	1 09	3 74	30.10	7.38	5900.00	0.0041	4.78	6.08	14.77	11.83	14.77	11.83
VANO 21	18.00	19 00	354 85	279 09	1188 15	432 44	20 58	5.04	5900.00	0 0041	1.13	3 09	25 08	6.14	5900.00	0 0041	4.82	5.48	14.77	11.83	14.77	11.83
VANO 21	19.20	20 00	390 69	368 44	1206.84	345 75	22.66	5.55	5900.00	0 0041	1.50	3.52	20 05	4.91	5900.00	0.0041	4.90	4.91	14.77	11.83	14.77	11.83
VANO 21	19.20	21 00	390 69	368.44	1206.84	345.75	22 66	5.55	5900.00	0 0041	1.50	3.52	20.05	4.91	5900.00	0.0041	4.90	4.91	14.77	11.83	14.77	11.83
VANO 21	20.40	22 00	468 48	375.14	1236 59	259 02	27.17	6.66	5900.00	0 0041	1.52	4.09	15.02	3.68	5900.00	0.0041	5 02	4.35	14.77	11.83	14.77	11.83
VANO 21	21.60	23 00	550 77	397.31	1268.51	172.27	31.94	7.83	5900 00	0 0041	1 61	4.72	9.99	2 45	5900.00	0.0041	5.15	3.80	14.77	11.83	14.77	11.83
VANO 21	22.80	24.00	634 38	419.76	1302.59	85.51	36 79	9 01	5900 00	0 0041	1.70	5.36	4.96	1.21	5900.00	0.0041	5.29	3.25	14.77	11.83	14.77	11.83
VANO 21	24.00	25 00	311.70	330 72	1338.84	3 64	18 08	4 43	5900 00	0 0041	1 34	2 89	0 21	0.05	5900.00	0.0041	5 43	2.74	14.77	11.83	14.77	11.83
VANO 21	24.00	26 00	311 70	330 72	1338 84	3.64	18 08	4.43	5900 00	0 0041	1.34	2.89	0 21	0.05	5900.00	0.0041	5.43	2.74	14.77	11.83	14.77	11.83
VANO 21	25.20	27 00	635 47	341 05	1377 24	87 22	36.85	9.03	5900.00	0 0041	1 38	5 21	5 06	1.24	5900.00	0.0041	5.59	3 41	14.77	11.83	14.77	11.83
VANO 21	26.40	28 00	552 24	361 32	1417.80	173.08	32.03	7.85	5900.00	0 0041	1 47	4.66	10.04	2 46	5900.00	0.0041	5.76	4.11	14.77	11.83	14.77	11.83
VANO 21	27.60	29 00	470 33	383.04	1460.53	258 91	27.28	6.68	5900 00	0 0041	1.55	4.12	15 02	3.68	5900.00	0.0041	5.93	4.80	14.77	11.83	14.77	11.83
VANO 21	28.80	30 00	390 28	372 03	1505 42	344.70	22.63	5.55	5900.00	0 0041	1 51	3.53	19 99	4.90	5900.00	0.0041	6.11	5.50	14.77	11.83	14.77	11.83
VANO 21	28.80	31 00	390 28	372 03	1505 42	344 70	22.63	5.55	5900 00	0 0041	1.51	3.53	19.99	4.90	5900.00	0.0041	6.11	5.50	14.77	11.83	14.77	11.83
VANO 21	30.00	32 00	355 65	560 21	1552 46	430 46	20 63	5.05	5900.00	0 0041	2 27	3 66	24 96	6.12	5900.00	0.0041	6 30	6 21	14.77	11.83	14.77	11.83
VANO 21	31.20	33 00	450.15	584.33	1601 57	516 16	26.11	6.40	5900 00	0 0041	2.37	4 38	29 93	7.33	5900.00	0.0041	6.50	6.92	14.77	11.83	14.77	11.83
VANO 21	32.40	34 00	545 77	608 68	1652.62	601 80	31 65	7.75	5900 00	0 0041	2.47	5.11	34 90	8 55	5900.00	0.0041	6.71	7.63	14.77	11.83	14.77	11.83
VANO 21	33.60	35 00	642 48	633.26	1705.63	687.38	37 26	9.13	5900.00	0.0041	2.57	5.85	39.86	9.77	5900.00	0.0041	6.92	8.35	14.77	11.83	14.77	11.83
VANO 21	33.60	36 00	642 48	633.26	1705 63	687.38	37 26	9 13	5900.00	0 0041	2.57	5.85	39.86	9 77	5900.00	0.0041	6.92	8.35	14.77	11.83	14.77	11.83
VANO 21	34.80	37 00	740.26	658.07	1760.59	772 87	42 93	10 52	5900.00	0 0041	2.67	6.59	44 82	10.98	5900.00	0.0041	7.15	9.06	14.77	11.83	14.77	11.83
VANO 21	36.00	38 00	839 06	683.11	1817.51	858.28	48.66	11.92	5900.00	0 0041	2.77	7.35	49.78	12.19	5900.00	0.0041	7.38	9.79	14.77	11.83	14.77	11.83
VANO 21	37.20	39 00	938.84	708.38	1876.37	943 60	54.45	13.34	5900 00	0 0041	2.88	8.11	54 72	13.41	5900.00	0.0041	7.62	10.51	14.77	11.83	14.77	11.83
VANO 21	38.40	40 00	1039.57	733 88	1937 19	1028.81	60 29	14.77	5900.00	0 0041	2.98	8.87	59.67	14 62	5900 00	0.0041	7.86	11.24	14.77	11.83	14.77	11.83
VANO 21	38.40	41 00	1039 57	733 88	1937 19	1028.81	60 29	14.77	5900.00	0 0041	2.98	8 87	59 67	14 62	5900.00	0.0041	7.86	11.24	14.77	11.83	14.77	11.83
VANO 21	39.60	42 00	1141.20	759.61	1999 96	1113 92	66.18	16 21	5900.00	0 0041	3 08	9.65	64.60	15 83	5900.00	0.0041	8.12	11.97	14.77	11.83	14.77	11.83
VANO 21	40.80	43.00	1243 68	785.57	2064.68	1198.92	72.13	17 67	5900.00	0 0041	3 19	10.43	69 53	17.03	5900.00	0.0041	8.38	12.71	14.77	11.83	14.77	11.97
VANO 21	42.00	44.00	1346.97	811.75	2131.36	1283.80	78.12	19.14	5900.00	0 0041	3.30	11.22	74.45	18 24	5900.00	0.0041	8.65	13.45	14.77	11.83	14.77	12.71
VANO 21	43.20	45.00	1451 01	838.17	2199 98	1368.55	84 15	20.62	5900 00	0 0041	3 40	12 01	79.37	19.45	5900.00	0.0041	8.93	14.19	14.77	11.83	14.77	13.45
VANO 21	43.20	46 00	1451.01	838 17	2199.98	1368 55	84.15	20.62	5900.00	0 0041	3.40	12 01	79.37	19.45	5900.00	0.0041	8.93	14.19	14.77	11.83	14.77	14.19
VANO 21	44.40	47 00	1555.74	864.82	2270.56	1453.17	90.22	22.10	5900.00	0 0041	3.51	12.81	84.28	20.65	5900.00	0.0041	9.22	14.93	14.77	11.83	14.77	14.19
VANO 21	45.60	48 00	1661.12	891 69	2343 09	1537.67	96.34	23.60	5900.00	0 0041	3.62	13.61	89.18	21.85	5900.00	0.0041	9.51	15.68	14.77	11.83	14.93	14.93
VANO 21	46.80	49.00	1767.08	918 80	2417.58	1622.02	102.48	25.11	5900.00	0 0041	3.73	14.42	94.07	23.05	5900.00	0.0041	9.81	16.43	14.77	11.83	15.68	15.68
VANO 22	0.00	1 00	2209 25	452 93	1436 54	1777 55	128 12	31.39	5900.00	0 0041	1 84	16 61	103 09	25.26	5900.00	0.0041	5.83	15.54	14.77	11.83	16.61	16.61
VANO 22	0 98	2 00	1775 04	461 26	1424 01	1708 04	102.94	25 22	5900.00	0 0041	1.87	13.55	99 06	24.27	5900.00	0.0041	5.78	15.02	14.77	11.83	15.02	15.02
VANO 22	1.95	3 00	1688 21	469 59	1413.15	1638 41	97.91	23.99	5900.00	0 0041	1.91	12 95	95 02	23 28	5900.00	0.0041	5.74	14 51	14.77	11.83	14.77	14.51
VANO 22	2 93	4 00	1601 72	477.91	1403 95	1568.67	92.89	22.76	5900.00	0 0041	1 94	12.35	90 97	22 29	5900.00	0.0041	5.70	13.99	14.77	11.83	14.77	13.99
VANO 22	3.90	5 00	1515 59	486 24	1396 44	1498 82	87.90	21 53	5900.00	0 0041	1 97	11 75	86 92	21 30	5900.00	0.0041	5 67	13.48	14.77	11.83	14.77	13.48
VANO 22	3.90	6 00	1515 59	486 24	1396 44	1498 82	87 90	21.53	5900.00	0 0041	1 97	11 75	86 92	21 30	5900.00	0.0041	5.67	13.48	14.77	11.83	14.77	13.48
VANO 22	4 88	7.00	1429 87	494.57	1392.92	1428 85	82 92	20.32	5900.00	0 0041	2 01	11.16	82 87	20.30	5900.00	0.0041	5.65	12.98	14.77	11.83	14.77	12.98
VANO 22	5 85	8 00	1344 58	502 90	1391.06	1358 78	77.98	19.10	5900.00	0 0041	2 04	10 57	78.80	19.31	5900.00	0.0041	5.65	12.48	14.77	11.83	14.77	12.48
VANO 22	6.83	9 00	1259.74	511.23	1390.86	1288.59	73.06	17 90	5900.00	0 0041	2 08	9 99	74.73	18.31	5900.00	0.0041	5.65	11.98	14.77	11.83	14.77	11.98
VANO 22	7.80	10 00	1175 38	519 55	1392.33	1218 29	68 17	16.70	5900 00	0 0041	2.11	9 40	70 65	17.31	5900.00	0.0041	5.65	11.48	14.77	11.83	14.77	11.83
VANO 22	7.80	11 00	1175 38	519.55	1392.33	1218.29	68.17	16.70	5900.00	0 0041	2.11	9.40	70 65	17.31	5900.00	0.0041	5.65	11.48	14.77	11.83	14.77	11.83
VANO 22	8.78	12 00	1091 54	527 88	1405.78	1147 89	63.30	15.51	5900.00	0 0041	2.14	8.83	66 57	16.31	5900.00	0.0041	5.71	11.01	14.77	11.83	14.77	11.83
VANO 22	9.75	13 00	1008.29	536 21	1421 79	1077 40	58 48	14.33	5900.00	0 0041	2.18	8.25	62 48	15.31	5900.00	0.0041	5.77	10.54	14.77	11.83	14.77	11.83
VANO 22	10.73	14 00	925 80	544.54	1439 61	1006.92	53 69	13.15	5900 00	0 0041	2.21	7.68	58 40	14.31	5900.00	0.0041	5.84	10.08	14.77	11.83	14.77	11.83
VANO 22	11.70	15 00	844 11	552 87	1459 23	936 43	48 95	11.99	5900.00	0 0041	2.24	7 12	54 31	13.31	5900.00	0.0041	5.92	9.61	14.77	11.83	14.77	11.83
VANO 22	11.70	16 00	844.11	552.87	1459.23	936.43	48.95	11.99	5900 00	0 0041	2.24	7 12	54.31	13.31	5900.00	0.0041	5.92	9.61	14.77	11.83	14.77	11.83
VANO 22	12.68	17.00	763 24	561 19	1480 65	865 94	44.26	10.84	5900.00	0 0041	2 28	6 56	50 22	12 30	5900.00	0.0041	6 01	9.16	14.77	11.83	14.77	11.83
VANO 22	13.65	18 00	683.20	574 55	1503 89	795 46	39 62	9.71	5900.00	0 0041	2.33	6.02	46.13	11 30	5900.00	0.0041	6.10	8.70	14.77	11.83	14.77	11.83
VANO 22	14 63	19.00	604 03	593.27	1528 92	724 97	35 03	8 58	5900.00	0 0041	2 41	5 50	42.04	10.30	5900.00	0.0041	6 21	8.25	14.77	11.83	14.77	11.83
VANO 22	15 60	20 00	525 73	611 77	1555 77	654 50	30.49	7.47	5900.00	0 0041	2 48	4 98	37.96	9.30	5900.00	0.0041	6.32	7.81	14.77	11.83	14.77	11.83
VANO 22	15 60	21.00	525 73	611 77	1555 77	654.50	30 49	7.47	5900.00	0 0041	2 48	4 98	37 96	9.30	5900.00	0.0041	6.32	7.81	14.77	11.83	14.77	11.83
VANO 22	16.58	22 00	448 34	630 03	1584 42	584 03	26 00	6.37	5900 00	0 0041	2.56	4.46	33 87	8.30	5900.00	0.0041	6.43	7.36	14.77	11.83	14.77	11.83
VANO 22	17.55	23 00	371.88	648 06	1614.88	513.57	21.57	5.28	5900.00	0 0041	2.63	3.96	29 78	7.30	5900.00	0.0041	6.56	6.93	14.77	11.83	14.77	11.83
VANO 22	18 53	24.00	296.35	665.86	1647.15	443.12	17.19	4.21	5900 00	0 0041	2.70	3.46	25.70	6.30	5900.00	0.0041	6.69	6.49	14.77	11.83	14.77	11.83
VANO 22	19.50	25 00	323 80	746 69	1681 22	372 69	18.78	4 60	5900.00	0 0041	3 03	3.82	21.61	5 30	5900.00	0.0041	6 82	6.06	14.77	11.83	14.77	11.83
VANO 22	19.50	26 00	323 80	746 69	1681 22	372 69	18 78	4.60	5900.00	0 0041	3.03	3.82	21.61	5 30	5900.00	0.0041	6.82	6.06	14.77	11.83	14.77	11.83
VANO 22	20.48	27 00	386 36	744 04	1717 09	302.27	22.41	5.49	5900 00	0 0041	3.02	4.25	17.53	4.29	5900.00	0.0041	6.97	5.63	14.77	11.83	14.77	11.83
VANO 22	21 45	28 00	451 29	750 66	1754.78	231 87	26.17	6 41	5900.00	0 0041	3.05	4.73	13.45	3.29	5900.00	0.0041	7.12	5.21	14.77	11.83	14.77	11.83
VANO 22	22.43	29 00	351.06	734.72	1794 27	161.49	20.36	4 99	5900.00	0 0041	2.98	3.99	9.37	2.29	5900.00	0.0041	7.28	4.79	14.77	11.83	14.77	11.83
VANO 22	23.40	30 00	703.55	751.35	1835 57	91.13	40.80	10.00	5900.00	0 0041	3.05	6 52	5 29	1.29	5900.00	0.0041	7.45	4.37	14.77	11.83	14.77	11.83
VANO 22	23.40	31 00	686.61	751.35	1835 57	74.19	39.82	9.76	5900 00	0 0041	3.05	6.40	4 30	1 05	5900.00	0.0041	7.45	4.25	14.77	11.83	14.77	11.83
VANO 22	24.38	32 00	617.19	767.75	1878.67	14.17	35.79	8.77	5900 00	0 0041	3.12	5.94	0 82	0.20	5900.00	0.0041	7.63	3.91	14.77	11.83	14.77	11.83
VANO 22	25.35	33 00	550 16	783.92	1923 58	65.66	31.91	7.82	5900 00	0 0041	3.18	5.50	3.81	0.93	5900.00	0.0041	7.81	4.37	14.77	11.83	14.77	11.83
VANO 22	26.33	34.00	486 82	705.22	1970 30	135 20	28.23	6 92	5900.00	0 0041	2.86	4.89	7.84	1.92	5900.00	0.0041	8.00	4.96	14.77	11.83	14.77	11.83
VANO 22	27.30	35.00	425.53	717.40	2018 82	204 71	24.68	6.05	5900.00	0 0041	2.91	4.48	11.87	2.91	5900.00	0.0041	8.19	5.55	14.77	11.83	14.77	11.83
VANO 22	27.30	36.00	425 53	717.40	2018 82	204.71	24.68	6 05	5900 00	0 0041	2.91	4.48	11.87	2.91	5900.00	0.0041	8.19	5.55	14.77	11.83	14.77	11.83
VANO 22	28.28	37.00	364 89	729.38	2069.15	274 19	21.16	5.18	5900.00	0 0041	2.96	4.07	15.90	3.90	5900.00	0.0041	8.40	6.15	14.77	11.83	14.77	11.83
VANO 22	29.25	38.00	304 91	741.17	2121.29	343 63	17.68	4.33	5900.00	0 0041	3.01	3.67	19.93	4.88	5900.00	0.0041	8.61	6.75	14.77	11.83	14.77	11.83
VANO 22	30.23	39.00	350 29	1002.05	2175.22	413.02	20 31	4.98	5900.00	0 0041	4.07	4.52	23.95	5.87	5900.00	0.0041	8.83	7.35	14.77	11.83	14.77	11.83
VANO 22	31.20	40.00	429 93	1023.59	2230.85	482.37	24.93	6.11	5900.00	0 0041	4.15	5.13	27.97	6.85	5900.00	0.0041	9.06	7.95	14.77	11.83	14.77	11.83
VANO 22	31.20	41.00	429 93	1023.59	2230.85	482.37	24 93	6.11	5900.00	0 0041	4.15	5.13	27.97	6.85	5900.00	0.0041	9.06	7.95	14.77	11.83	14.77	11.83
VANO 22	32.18	42.00	510.60	1045.32	2288.11	551.68	29.61	7.25	5900.00	0 0041	4.24	5.75	31.99	7.84	5900.00	0.0041	9.29	8.56	14.77	11.83	14.77	11.83
VANO 22	33.15	43.00	592.29	1067.25	2347.00	620.93	34.35	8.42	5900.00	0 0041	4.33	6.37	36.01	8.82	5900.00	0.0041	9.53	9.17	14.77	11.83	14.77	11.83
VANO 22	34.13	44.00	675.00	1089.36	2407.53	690.13	39.15	9.59	5900.00	0 0041	4.42	7.01	40.02	9.81	5900.00	0.0041	9.77	9.79	14.77	11.83	14.77	11.83
VANO 22	35.10	45.00	758.73	1111.67	2469.70	759.28	44.00	10.78	5900.00	0 0041	4.51	7.65	44.03	10.79	5900.00	0.0041	10.03	10.41	14.77	11.83	14.77	11.83
VANO 22	35.10	46.00	982 91	1111.67	2469.70	983.47	57.00	13.97	5900.00	0 0041	4.51	9.24	57.04	13.97	5900.00	0.0041	10.03	12.00	14.77	11.83	14.77	12.00
VANO 22	36.08	47.00	1067.66	1134.16	2533.50	1052.55	61 92	15.17	5900.00	0 0041	4.60	9.89	61.04	14.96	5900.00	0.0041	10.28	12.62	14.77	11.83	14.77	12.62
VANO 22	37.05	48.00	1153 42	1156.85	2598.94	1121.58	66.89	16.39	5900.00	0 0041	4.70	10.54	65.05	15.94	5900.00	0.0041	10.55	13.24	14.77	11.83	14.77	13.24
VANO 22	38.03	49.00	1240.19	1179.72	2666.13	1190.57	71.92	17.62	5900.00	0 0041	4.79	11.21	69.05	16.92	5900.00	0.0041	10.82	13.87	14.77	11.83	14.77	13.87

Armado de voladizos

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20 008	24.9687
ys	1 495	1.754
yi	2 505	2 246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE VOLADIZO EN ZONA EXTERIOR

CARACT. RASANTE

M est (S1)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

ARMADO DEFINITIV

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	As ext	As int
VANO 1	0.00	1.00	1536.07	865.68	2253.04	1061.72	44.11	10.81	5.40	5.18	0.00	5.40	5.40
VANO 1	0.98	2.00	1122.11	842.66	2183.76	992.87	32.22	7.89	3.95	5.18	0.00	5.18	3.95
VANO 1	1.95	3.00	1035.33	819.83	2116.13	923.74	29.73	7.28	3.64	5.18	0.00	5.18	3.64
VANO 1	2.93	4.00	949.57	797.20	2050.19	854.71	27.27	6.68	3.34	5.18	0.00	5.18	3.34
VANO 1	3.90	5.00	864.82	774.77	1986.02	785.62	24.83	6.08	3.04	5.18	0.00	5.18	3.04
VANO 1	3.90	6.00	864.82	774.77	1986.02	785.62	24.83	6.08	3.04	5.18	0.00	5.18	3.04
VANO 1	4.88	7.00	781.09	752.53	1924.44	716.47	22.43	5.50	2.75	5.18	0.00	5.18	2.75
VANO 1	5.85	8.00	698.39	730.48	1864.03	647.26	20.05	4.91	2.46	5.18	0.00	5.18	2.46
VANO 1	6.83	9.00	616.71	708.64	1805.1	578.00	17.71	4.34	2.17	5.18	0.00	5.18	2.17
VANO 1	7.80	10.00	536.05	686.98	1747.66	508.70	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 1	7.80	11.00	536.05	686.98	1747.66	508.70	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 1	8.78	12.00	456.41	665.53	1692.0	439.34	13.11	3.21	1.61	5.18	0.00	5.18	1.61
VANO 1	9.75	13.00	377.80	644.15	1638.47	369.94	10.85	2.66	1.33	5.18	0.00	5.18	1.33
VANO 1	10.73	14.00	320.20	406.97	1586.49	300.50	9.19	2.25	1.13	5.18	0.00	5.18	1.13
VANO 1	11.70	15.00	380.86	394.96	1536.06	231.02	10.94	2.68	1.34	5.18	0.00	5.18	1.34
VANO 1	11.70	16.00	397.80	394.96	1536.06	214.08	11.42	2.80	1.40	5.18	0.00	5.18	1.40
VANO 1	12.68	17.00	459.12	382.76	1488.09	144.57	13.18	3.23	1.62	5.18	0.00	5.18	1.62
VANO 1	13.65	18.00	522.90	446.83	1441.68	75.02	15.02	3.68	1.84	5.18	0.00	5.18	1.84
VANO 1	14.63	19.00	589.95	430.65	1397.12	5.44	16.94	4.15	2.08	5.18	0.00	5.18	2.08
VANO 1	15.60	20.00	659.46	414.23	1354.41	65.20	18.94	4.64	2.32	5.18	0.00	5.18	2.32
VANO 1	15.60	21.00	659.46	414.23	1354.41	65.20	18.94	4.64	2.32	5.18	0.00	5.18	2.32
VANO 1	16.58	22.00	361.92	397.57	1313.56	135.56	10.39	2.55	1.27	5.18	0.00	5.18	1.27
VANO 1	17.55	23.00	446.47	409.06	1274.57	205.94	12.82	3.14	1.57	5.18	0.00	5.18	1.57
VANO 1	18.53	24.00	381.57	402.28	1237.43	276.35	10.96	2.68	1.34	5.18	0.00	5.18	1.34
VANO 1	19.50	25.00	319.75	426.88	1202.15	346.77	9.18	2.25	1.12	5.18	0.00	5.18	1.12
VANO 1	19.50	26.00	319.75	426.88	1202.15	346.77	9.18	2.25	1.12	5.18	0.00	5.18	1.12
VANO 1	20.48	27.00	362.87	328.54	1168.72	417.20	10.42	2.55	1.28	5.18	0.00	5.18	1.28
VANO 1	21.45	28.00	438.44	310.68	1137.15	487.65	12.59	3.08	1.54	5.18	0.00	5.18	1.54
VANO 1	22.43	29.00	514.94	292.59	1107.43	558.11	14.79	3.62	1.81	5.18	0.00	5.18	1.81
VANO 1	23.40	30.00	592.37	282.16	1079.57	628.58	17.01	4.17	2.08	5.18	0.00	5.18	2.08
VANO 1	23.40	31.00	592.37	282.16	1079.57	628.58	17.01	4.17	2.08	5.18	0.00	5.18	2.08
VANO 1	24.38	32.00	670.70	273.91	1053.57	699.06	19.26	4.72	2.36	5.18	0.00	5.18	2.36
VANO 1	25.35	33.00	749.92	265.66	1029.42	769.54	21.53	5.28	2.64	5.18	0.00	5.18	2.64
VANO 1	26.33	34.00	830.00	257.41	1007.12	840.03	23.83	5.84	2.92	5.18	0.00	5.18	2.92
VANO 1	27.30	35.00	910.92	249.16	986.68	910.52	26.16	6.41	3.20	5.18	0.00	5.18	3.20
VANO 1	27.30	36.00	910.92	249.16	986.68	910.52	26.16	6.41	3.20	5.18	0.00	5.18	3.20
VANO 1	28.28	37.00	992.65	240.91	974.77	953.33	28.50	6.98	3.49	5.18	0.00	5.18	3.49
VANO 1	29.25	38.00	1075.18	232.66	973.55	1020.65	30.87	7.56	3.78	5.18	0.00	5.18	3.78
VANO 1	30.23	39.00	1158.47	224.41	975.27	1087.46	33.27	8.15	4.08	5.18	0.00	5.18	4.08
VANO 1	31.20	40.00	1242.36	216.16	977.69	1153.74	35.68	8.74	4.37	5.18	0.00	5.18	4.37
VANO 1	31.20	41.00	1242.36	216.16	977.69	1153.74	35.68	8.74	4.37	5.18	0.00	5.18	4.37
VANO 1	32.18	42.00	1326.76	207.91	980.83	1219.50	38.10	9.33	4.67	5.18	0.00	5.18	4.67
VANO 1	33.15	43.00	1411.64	199.66	985.23	1285.17	40.54	9.93	4.97	5.18	0.00	5.18	4.97
VANO 1	34.13	44.00	1496.98	191.41	991.13	1350.97	42.99	10.53	5.27	5.18	0.00	5.27	5.27
VANO 1	35.10	45.00	1582.75	183.16	1029.22	1457.58	45.45	11.14	5.57	5.18	0.00	5.57	5.57
VANO 1	35.10	46.00	1582.75	183.16	1029.22	1457.58	45.45	11.14	5.57	5.18	0.00	5.57	5.57
VANO 1	36.08	47.00	1668.91	174.91	1074.83	1526.70	47.92	11.74	5.87	5.18	0.00	5.87	5.87
VANO 1	37.05	48.00	1755.45	173.02	1122.11	1595.71	50.41	12.35	6.18	5.18	0.00	6.18	6.18
VANO 1	38.03	49.00	1842.32	186.35	1171.03	1664.60	52.90	12.96	6.48	5.18	0.00	6.48	6.48
VANO 1	39.00	50.00	2221.04	199.87	1221.61	1733.38	63.76	15.63	7.81	5.18	0.00	7.81	7.81
VANO 2	0.00	1.00	2356.78	617.61	2013.43	1717.19	67.68	16.58	8.29	5.18	0.00	8.29	8.29
VANO 2	1.20	2.00	1841.70	590.63	1937.21	1632.96	52.89	12.96	6.48	5.18	0.00	6.48	6.48
VANO 2	2.40	3.00	1735.66	563.88	1862.99	1548.60	49.84	12.21	6.11	5.18	0.00	6.11	6.11
VANO 2	3.60	4.00	1630.21	537.37	1790.77	1464.10	46.81	11.47	5.73	5.18	0.00	5.73	5.73
VANO 2	4.80	5.00	1525.41	511.09	1720.51	1379.46	43.80	10.73	5.37	5.18	0.00	5.37	5.37
VANO 2	4.80	6.00	1525.41	511.09	1720.51	1379.46	43.80	10.73	5.37	5.18	0.00	5.37	5.37
VANO 2	6.00	7.00	1421.30	485.04	1652.31	1294.69	40.81	10.00	5.00	5.18	0.00	5.18	5.00
VANO 2	7.20	8.00	1317.95	459.23	1586.11	1209.80	37.85	9.27	4.64	5.18	0.00	5.18	4.64
VANO 2	8.40	9.00	1215.41	433.66	1521.84	1124.79	34.90	8.55	4.28	5.18	0.00	5.18	4.28
VANO 2	9.60	10.00	1113.72	408.32	1459.66	1039.67	31.98	7.84	3.92	5.18	0.00	5.18	3.92
VANO 2	9.60	11.00	1113.72	408.32	1459.66	1039.67	31.98	7.84	3.92	5.18	0.00	5.18	3.92
VANO 2	10.80	12.00	1012.94	383.22	1399.4	954.44	29.09	7.13	3.56	5.18	0.00	5.18	3.56
VANO 2	12.00	13.00	913.11	358.35	1341.2	869.10	26.22	6.42	3.21	5.18	0.00	5.18	3.21
VANO 2	13.20	14.00	814.27	333.72	1284.9	783.68	23.38	5.73	2.86	5.18	0.00	5.18	2.86
VANO 2	14.40	15.00	716.46	309.32	1230.74	698.16	20.57	5.04	2.52	5.18	0.00	5.18	2.52
VANO 2	14.40	16.00	699.51	309.32	1230.74	681.22	20.09	4.92	2.46	5.18	0.00	5.18	2.46
VANO 2	15.60	17.00	602.77	285.15	1178.54	595.63	17.31	4.24	2.12	5.18	0.00	5.18	2.12
VANO 2	16.80	18.00	507.13	261.23	1128.3	509.97	14.56	3.57	1.78	5.18	0.00	5.18	1.78
VANO 2	18.00	19.00	412.61	237.53	1080.09	424.25	11.85	2.90	1.45	5.18	0.00	5.18	1.45
VANO 2	19.20	20.00	455.14	82.80	1033.9	338.47	13.07	3.20	1.60	5.18	0.00	5.18	1.60
VANO 2	19.20	21.00	455.14	82.80	1033.9	338.47	13.07	3.20	1.60	5.18	0.00	5.18	1.60
VANO 2	20.40	22.00	535.31	72.81	990.0	252.66	15.37	3.77	1.88	5.18	0.00	5.18	1.88
VANO 2	21.60	23.00	617.24	62.83	948.3	166.81	17.72	4.34	2.17	5.18	0.00	5.18	2.17
VANO 2	22.80	24.00	700.51	52.85	908.9	80.94	20.12	4.93	2.46	5.18	0.00	5.18	2.46
VANO 2	24.00	25.00	376.61	47.91	871.6	6.27	10.81	2.65	1.32	5.18	0.00	5.18	1.32
VANO 2	24.00	26.00	376.61	47.91	871.6	6.27	10.81	2.65	1.32	5.18	0.00	5.18	1.32
VANO 2	25.20	27.00	691.35	100.07	836.5	93.05	19.85	4.86	2.43	5.18	0.00	5.18	2.43
VANO 2	26.40	28.00	607.79	78.15	814.4	179.84	17.45	4.28	2.14	5.18	0.00	5.18	2.14
VANO 2	27.60	29.00	525.56	56.53	845.3	263.89	15.09	3.70	1.85	5.18	0.00	5.18	1.85
VANO 2	28.80	30.00	446.03	67.00	880.2	349.73	12.81	3.14	1.57	5.18	0.00	5.18	1.57
VANO 2	28.80	31.00	446.03	67.00	880.2	349.73	12.81	3.14	1.57	5.18	0.00	5.18	1.57
VANO 2	30.00	32.00	420.06	120.77	922.2	435.54	12.06	2.96	1.48	5.18	0.00	5.18	1.48
VANO 2	31.20	33.00	514.30	143.84	969.1	521.30	14.77	3.62	1.81	5.18	0.00	5.18	1.81
VANO 2	32.40	34.00	609.68	167.69	1018.51	607.01	17.51	4.29	2.14	5.18	0.00	5.18	2.14
VANO 2	33.60	35.00	706.18	191.77	1069.92	692.65	20.28	4.97	2.48	5.18	0.00	5.18	2.48
VANO 2	33.60	36.00	706.18	191.77	1069.92	692.65	20.28	4.97	2.48	5.18	0.00	5.18	2.48
VANO 2	34.80	37.00	803.77	216.09	1123.32	778.23	23.08	5.65	2.83	5.18	0.00	5.18	2.83
VANO 2	36.00	38.00	902.40	240.65	1178.74	863.72	25.91	6.35	3.17	5.18	0.00	5.18	3.17
VANO 2	37.20	39.00	1002.05	265.44	1236.16	949.13	28.77	7.05	3.52	5.18	0.00	5.18	3.52
VANO 2	38.40	40.00	1102.66	290.46	1295.59	1034.45	31.66	7.76	3.88	5.18	0.00	5.18	3.88
VANO 2	38.40	41.00	1102.66	290.46	1295.59	1034.45	31.66	7.76	3.88	5.18	0.00	5.18	3.88
VANO 2	39.60	42.00	1204.20	315.73	1357.02	1119.66	34.58	8.47	4.24	5.18	0.00	5.18	4.24
VANO 2	40.80	43.00	1306.63	341.22	1420.46	1204.77	37.52	9.19	4.60	5.18	0.00	5.18	4.60
VANO 2	42.00	44.00	1409.89	366.95	1485.91	1289.76	40.49	9.92	4.96	5.18	0.00	5.18	4.96
VANO 2	43.20	45.00	1513.93	392.92	1553.36	1374.64	43.47	10.65	5.33	5.18	0.00	5.33	5.33
VANO 2	43.20	46.00	1513.93	392.92	1553.36	1374.64	43.47	10.65	5.33	5.18	0.00	5.33	5.33
VANO 2	44.40	47.00	1618.70	419.12	1622.82	1459.39	46.48	11.39	5.69	5.18	0.00	5.69	5.69
VANO 2	45.60	48.00	1724.14	445.56	1694.29	1544.02	49.51	12.13	6.06	5.18	0.00	6.06	6.06
VANO 2	46.80	49.00	1830.20	472.23	1767.76	1628.52	52.56	12.88	6.44	5.18	0.00	6.44	6.44

ARMADO DE VOLADIZO JUNTO AL ALMA

CARACT. RASANTE

M est (S2)=	1.38
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.069
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

ARMADO DEFINITIV

A E

	Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	As ext	As int
	105.83	25.93	12.96	18.77	0.00	18.77	12.96
	77.31	18.94	9.47	18.77	0.00	18.77	9.47
	71.33	17.48	8.74	18.77	0.00	18.77	8.74
	65.42	16.03	8.01	18.77	0.00	18.77	8.01
	59.58	14.60	7.30	18.77	0.00	18.77	7.30
	59.58	14.60	7.30	18.77	0.00	18.77	7.30
	53.81	13.18	6.59	18.77	0.00	18.77	6.59
	48.12	11.79	5.89	18.77	0.00	18.77	5.89
	42.49	10.41	5.20	18.77	0.00	18.77	5.20
	36.93	9.05	4.52	18.77	0.00	18.77	4.52
	36.93	9.05	4.52	18.77	0.00	18.77	4.52
	31.44	7.70	3.85	18.77	0.00	18.77	3.85
	26.03	6.38	3.19	18.77	0.00	18.77	3.19
	22.06	5.40	2.70	18.77	0.00	18.77	2.70
	26.24	6.43	3.21	18.77	0.00	18.77	3.21
	27.41	6.71	3.36	18.77	0.00	18.77	3.36
	31.63	7.75	3.87	18.77	0.00	18.77	3.87
	36.03	8.83	4.41	18.77	0.00	18.77	4.41
	40.65	9.96	4.98	18.77	0.00	18.77	4.98
	45.43	11.13	5.57	18.77	0.00	18.77	5.57
	45.43	11.13	5.57	18.77	0.00	18.77	5.57
	24.93	6.11	3.05	18.77	0.00	18.77	3.05
	30.76	7.54	3.77	18.77	0.00	18.77	3.77
	26.29	6.44	3.22	18.77	0.00	18.77	3.22
	22.03	5.40	2.70	18.77	0.00	18.77	2.70
	22.03	5.40	2.70	18.77	0.00	18.77	2.70
	25.00	6.13	3.06	18.77	0.00	18.77	3.06
	30.21	7.40	3.70	18.77	0.00	18.77	3.70
	35.48	8.69	4.35	18.77	0.00	18.77	4.35
	40.81	10.00	5.00	18.77	0.00	18.77	5.00
	40.81	10.00	5.00	18.77	0.00	18.77	5.00
	46.21	11.32	5.66	18.77	0.00	18.77	5.66
	51.67	12.66	6.33	18.77	0.00	18.77	6.33
	57.18	14.01	7.00	18.77	0.00	18.77	7.00
	62.76	15.38	7.69	18.77	0.00	18.77	7.69
	62.76	15.38	7.69	18.77	0.00	18.77	7.69
	68.39	16.76	8.38	18.77	0.00	18.77	8.38
	74.07	18.15	9.07	18.77	0.00	18.77	9.07
	79.81	19.55	9.78	18.77	0.00	18.77	9.78
	85.59	20.97	10.49	18.77	0.00	18.77	10.49
	85.59	20.97	10.49	18.77	0.00	18.77	10.49
	91.41	22.39	11.20	18.77	0.00	18.77	11.20
	97.26	23.83	11.91	18.77	0.00	18.77	11.91
	103.14	25.27	12.63	18.77	0.00	18.77	12.63
	109.04	26.72	13.36	18.77	0.00	18.77	13.36
	109.04	26.72	13.36	18.77	0.00	18.77	13.36
	114.98	28.17	14.09	18.77	0.00	18.77	14.09
	120.94	29.63	14.82	18.77	0.00	18.77	14.82
	126.93	31.10	15.55	18.77	0.00	18.77	15.55
	153.02	37.49	18.74	18.77	0.00	18.77	18.74
	162.37	39.78	19.89	18.77	0.00	19.89	19.89
	126.88	31.09	15.54	18.77	0.00	18.77	15.54
	119.58	29.30	14.65	18.77	0.00	18.77	14.65
	112.31	27.52	13.76	18.77	0.00	18.77	13.76
	105.09	25.75	12.87	18.77	0.00	18.77	12.87
	105.09	25.75	12.87	18.77	0.00	18.77	12.87
	97.92	23.99	12.00	18.77	0.00	18.77	12.00
	90.80	22.25	11.12	18.77	0.00	18.77	11.12
	83.74	20.52	10.26	18.77	0.00	18.77	10.26
	76.73	18.80	9.40	18.77	0.00	18.77	9.40
	76.73	18.80	9.40	18.77	0.00	18.77	9.40
	69.79	17.10	8.55	18.77	0.00	18.77	8.55
	62.91	15.41	7.71	18.77	0.00	18.77	7.71
	56.10	13.74	6.87	18.77	0.00	18.77	6.87
	49.36	12.09	6.05	18.77	0.00	18.77	6.05
	48.19	11.81	5.90	18.77	0.00	18.77	5.90
	41.53	10.17	5.09	18.77	0.00	18.77	5.09
	34.94	8.56	4.28	18.77	0.00	18.77	4.28
	28.43	6.96	3.48	18.77	0.00	18.77	3.48
	31.36	7.68	3.84	18.77	0.00	18.77	3.84
	31.36	7.68	3.84	18.77	0.00	18.77	3.84
	36.88	9.04	4.52	18.77	0.00	18.77	4.52
	42.53	10.42	5.21	18.77	0.00	18.77	5.21
	48.26	11.82	5.91	18.77	0.00	18.77	5.91
	25.95	6.36	3.18	18.77	0.00	18.77	3.18
	25.95	6.36	3.18	18.77	0.00	18.77	3.18
	47.63	11.67	5.83	18.77	0.00	18.77	5.83
	41.87	10.26	5.13	18.77	0.00	18.77	5.13
	36.21	8.87	4.44	18.77	0.00	18.77	4.44
	30.73	7.53	3.76	18.77	0.00	18.77	3.76
	30.73	7.53	3.76	18.77	0.00	18.77	3.76
	28.94	7.09	3.55	18.77	0.00	18.77	3.55
	35.43	8.68	4.34	18.77	0.00	18.77	4.34
	42.00	10.29	5.15	18.77	0.00	18.77	5.15
	48.65	11.92	5.96	18.77	0.00	18.77	5.96
	48.65	11.92	5.96	18.77	0.00	18.77	5.96
	55.38	13.57	6.78	18.77	0.00	18.77	6.78
	62.17	15.23	7.62	18.77	0.00	18.77	7.62
	69.04	16.91	8.46	18.77	0.00	18.77	8.46
	75.97	18.61	9.31	18.77	0.00	18.77	9.31
	75.97	18.61	9.31	18.77	0.00	18.77	9.31
	82.96	20.33	10.16	18.77	0.00	18.77	10.16
	90.02	22.06	11.03	18.77	0.00	18.77	11.03
	97.13	23.80	11.90	18.77	0.00	18.77	11.90
	104.30	25.55	12.78	18.77	0.00	18.77	12.78
	104.30	25.55	12.78	18.77	0.00	18.77	12.78
	111.52	27.32	13.66	18.77	0.00	18.77	13.66
	118.79	29.10	14.55	18.77	0.00	18.77	14.55
	126.09	30.89	15.45	18.77	0.00	18.77	15.45

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 8 PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE VOLADIZO EN ZONA EXTERIOR

CARACT. RASANTE

M est (S1)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
coig tetha =	1
K rasant =	0.029
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	ARMADO DEFINITIV As ext	As int
VANO 3	0.00	1.00	2355.00	466.74	1897.96	1696.24	67.63	16.57	8.28	5.18	0.00	8.28	8.28
VANO 3	1.20	2.00	1839.90	440.21	1823.49	1611.91	52.83	12.94	6.47	5.18	0.00	6.47	6.47
VANO 3	2.40	3.00	1733.86	413.92	1751.02	1527.45	49.79	12.20	6.10	5.18	0.00	6.10	6.10
VANO 3	3.60	4.00	1628.42	387.86	1680.52	1442.85	46.76	11.46	5.73	5.18	0.00	5.73	5.73
VANO 3	4.80	5.00	1523.64	362.04	1612.01	1358.13	43.75	10.72	5.36	5.18	0.00	5.36	5.36
VANO 3	4.80	6.00	1523.64	362.04	1612.01	1358.13	43.75	10.72	5.36	5.18	0.00	5.36	5.36
VANO 3	6.00	7.00	1419.57	336.45	1545.49	1273.28	40.76	9.99	4.99	5.18	0.00	5.18	4.99
VANO 3	7.20	8.00	1316.27	311.09	1480.95	1188.31	37.80	9.26	4.63	5.18	0.00	5.18	4.63
VANO 3	8.40	9.00	1213.78	286.83	1419.26	1103.23	34.85	8.54	4.27	5.18	0.00	5.18	4.27
VANO 3	9.60	10.00	1112.16	264.36	1361.11	1018.04	31.94	7.82	3.91	5.18	0.00	5.18	3.91
VANO 3	9.60	11.00	1112.16	264.36	1361.11	1018.04	31.94	7.82	3.91	5.18	0.00	5.18	3.91
VANO 3	10.80	12.00	1011.44	242.12	1304.35	932.75	29.04	7.12	3.56	5.18	0.00	5.18	3.56
VANO 3	12.00	13.00	911.67	220.11	1250.77	847.37	26.18	6.41	3.21	5.18	0.00	5.18	3.21
VANO 3	13.20	14.00	812.90	198.34	1198.58	761.89	23.34	5.72	2.86	5.18	0.00	5.18	2.86
VANO 3	14.40	15.00	715.16	176.80	1148.37	676.33	20.54	5.03	2.52	5.18	0.00	5.18	2.52
VANO 3	14.40	16.00	698.21	176.80	1148.37	659.38	20.05	4.91	2.46	5.18	0.00	5.18	2.46
VANO 3	15.60	17.00	601.53	155.99	1100.54	573.75	17.27	4.23	2.12	5.18	0.00	5.18	2.12
VANO 3	16.80	18.00	505.95	135.80	1055.29	488.05	14.53	3.56	1.78	5.18	0.00	5.18	1.78
VANO 3	18.00	19.00	428.34	25.29	1011.33	402.29	12.30	3.01	1.51	5.18	0.00	5.18	1.51
VANO 3	19.20	20.00	507.44	58.74	974.31	316.48	14.57	3.57	1.78	5.18	0.00	5.18	1.78
VANO 3	19.20	21.00	507.44	58.74	974.31	316.48	14.57	3.57	1.78	5.18	0.00	5.18	1.78
VANO 3	20.40	22.00	588.12	79.95	941.37	230.63	16.89	4.14	2.07	5.18	0.00	5.18	2.07
VANO 3	21.60	23.00	670.11	101.44	924.11	146.30	19.24	4.71	2.36	5.18	0.00	5.18	2.36
VANO 3	22.80	24.00	753.43	123.22	943.12	59.50	21.64	5.30	2.65	5.18	0.00	5.18	2.65
VANO 3	24.00	25.00	430.06	145.28	978.19	32.06	12.35	3.03	1.51	5.18	0.00	5.18	1.51
VANO 3	24.00	26.00	430.06	145.28	978.19	32.06	12.35	3.03	1.51	5.18	0.00	5.18	1.51
VANO 3	25.20	27.00	691.04	83.74	1015.56	117.97	19.84	4.86	2.43	5.18	0.00	5.18	2.43
VANO 3	26.40	28.00	607.51	93.48	1055.14	203.88	17.45	4.27	2.14	5.18	0.00	5.18	2.14
VANO 3	27.60	29.00	525.32	103.23	1096.31	289.78	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 3	28.80	30.00	444.44	112.97	1140.18	375.65	12.76	3.13	1.56	5.18	0.00	5.18	1.56
VANO 3	28.80	31.00	444.44	112.97	1140.18	375.65	12.76	3.13	1.56	5.18	0.00	5.18	1.56
VANO 3	30.00	32.00	473.68	259.78	1187.15	461.48	13.60	3.33	1.67	5.18	0.00	5.18	1.67
VANO 3	31.20	33.00	567.95	283.28	1235.12	547.27	16.31	4.00	2.00	5.18	0.00	5.18	2.00
VANO 3	32.40	34.00	663.35	307.02	1285.37	633.01	19.05	4.67	2.33	5.18	0.00	5.18	2.33
VANO 3	33.60	35.00	759.86	330.99	1337.10	718.69	21.82	5.35	2.67	5.18	0.00	5.18	2.67
VANO 3	33.60	36.00	759.86	330.99	1337.10	718.69	21.82	5.35	2.67	5.18	0.00	5.18	2.67
VANO 3	34.80	37.00	857.46	355.19	1392.03	804.29	24.62	6.03	3.02	5.18	0.00	5.18	3.02
VANO 3	36.00	38.00	956.09	379.62	1448.14	889.82	27.45	6.73	3.36	5.18	0.00	5.18	3.36
VANO 3	37.20	39.00	1055.74	404.29	1506.44	975.27	30.32	7.43	3.71	5.18	0.00	5.18	3.71
VANO 3	38.40	40.00	1156.36	429.19	1566.63	1060.62	33.21	8.14	4.07	5.18	0.00	5.18	4.07
VANO 3	38.40	41.00	1156.36	429.19	1566.63	1060.62	33.21	8.14	4.07	5.18	0.00	5.18	4.07
VANO 3	39.60	42.00	1257.90	454.32	1628.80	1145.87	36.12	8.85	4.42	5.18	0.00	5.18	4.42
VANO 3	40.80	43.00	1360.33	479.69	1692.96	1231.02	39.06	9.57	4.79	5.18	0.00	5.18	4.79
VANO 3	42.00	44.00	1463.60	505.28	1759.11	1316.05	42.03	10.30	5.15	5.18	0.00	5.18	5.15
VANO 3	43.20	45.00	1567.65	531.11	1827.24	1400.98	45.02	11.03	5.51	5.18	0.00	5.51	5.51
VANO 3	43.20	46.00	1567.65	531.11	1827.24	1400.98	45.02	11.03	5.51	5.18	0.00	5.51	5.51
VANO 3	44.40	47.00	1672.44	557.17	1897.37	1485.78	48.03	11.77	5.88	5.18	0.00	5.88	5.88
VANO 3	45.60	48.00	1777.91	583.47	1969.48	1570.45	51.05	12.51	6.25	5.18	0.00	6.25	6.25
VANO 3	46.80	49.00	1884.01	609.99	2043.57	1655.00	54.10	13.25	6.63	5.18	0.00	6.63	6.63
VANO 3	48.00	50.00	2399.20	636.75	2119.66	1739.41	68.89	16.88	8.44	5.18	0.00	8.44	8.44
VANO 4	0.00	1.00	2490.73	631.03	2164.17	1815.11	71.52	17.52	8.76	5.18	0.00	8.76	8.76
VANO 4	1.28	2.00	1995.10	602.55	2083.12	1725.71	57.29	14.04	7.02	5.18	0.00	7.02	7.02
VANO 4	2.55	3.00	1882.70	574.32	2005.01	1636.17	54.06	13.25	6.62	5.18	0.00	6.62	6.62
VANO 4	3.83	4.00	1770.91	546.34	1928.13	1546.49	50.85	12.46	6.23	5.18	0.00	6.23	6.23
VANO 4	5.10	5.00	1659.81	518.61	1853.00	1456.67	47.66	11.68	5.84	5.18	0.00	5.84	5.84
VANO 4	5.10	6.00	1659.81	518.61	1853.00	1456.67	47.66	11.68	5.84	5.18	0.00	5.84	5.84
VANO 4	6.38	7.00	1549.46	491.13	1781.10	1366.72	44.49	10.90	5.45	5.18	0.00	5.45	5.45
VANO 4	7.65	8.00	1439.90	463.93	1710.15	1276.63	41.35	10.13	5.07	5.18	0.00	5.18	5.07
VANO 4	8.93	9.00	1331.20	437.02	1642.00	1186.42	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 4	10.20	10.00	1223.40	410.37	1576.59	1096.09	35.13	8.61	4.30	5.18	0.00	5.18	4.30
VANO 4	10.20	11.00	1223.40	410.37	1576.59	1096.09	35.13	8.61	4.30	5.18	0.00	5.18	4.30
VANO 4	11.48	12.00	1116.56	383.97	1512.22	1005.65	32.06	7.86	3.93	5.18	0.00	5.18	3.93
VANO 4	12.75	13.00	1010.73	357.82	1450.58	915.10	29.02	7.11	3.56	5.18	0.00	5.18	3.56
VANO 4	14.03	14.00	905.94	331.92	1391.68	824.45	26.01	6.37	3.19	5.18	0.00	5.18	3.19
VANO 4	15.30	15.00	802.23	306.27	1333.52	733.71	23.04	5.64	2.82	5.18	0.00	5.18	2.82
VANO 4	15.30	16.00	785.29	306.27	1333.52	716.77	22.55	5.52	2.76	5.18	0.00	5.18	2.76
VANO 4	16.58	17.00	682.71	280.87	1278.19	625.95	19.60	4.80	2.40	5.18	0.00	5.18	2.40
VANO 4	17.86	18.00	581.29	255.72	1225.41	535.05	16.69	4.09	2.04	5.18	0.00	5.18	2.04
VANO 4	19.13	19.00	481.07	230.81	1174.08	444.08	13.81	3.38	1.69	5.18	0.00	5.18	1.69
VANO 4	20.40	20.00	455.81	79.65	1125.44	353.07	13.09	3.21	1.60	5.18	0.00	5.18	1.60
VANO 4	20.40	21.00	455.81	79.65	1125.44	353.07	13.09	3.21	1.60	5.18	0.00	5.18	1.60
VANO 4	21.68	22.00	541.45	69.27	1078.20	262.00	15.55	3.81	1.90	5.18	0.00	5.18	1.90
VANO 4	22.95	23.00	628.50	58.90	1034.00	170.90	18.05	4.42	2.21	5.18	0.00	5.18	2.21
VANO 4	24.23	24.00	716.97	48.52	992.26	79.78	20.59	5.04	2.52	5.18	0.00	5.18	2.52
VANO 4	25.50	25.00	424.70	60.28	952.58	28.92	12.20	2.99	1.49	5.18	0.00	5.18	1.49
VANO 4	25.50	26.00	424.70	60.28	952.58	28.92	12.20	2.99	1.49	5.18	0.00	5.18	1.49
VANO 4	26.78	27.00	675.10	86.26	923.34	121.02	19.39	4.75	2.37	5.18	0.00	5.18	2.37
VANO 4	28.05	28.00	586.33	63.24	952.41	210.95	16.84	4.13	2.06	5.18	0.00	5.18	2.06
VANO 4	29.33	29.00	498.98	41.39	992.66	302.06	14.33	3.51	1.76	5.18	0.00	5.18	1.76
VANO 4	30.60	30.00	423.44	133.99	1035.31	393.15	12.16	2.98	1.49	5.18	0.00	5.18	1.49
VANO 4	30.60	31.00	423.44	133.99	1035.31	393.15	12.16	2.98	1.49	5.18	0.00	5.18	1.49
VANO 4	31.88	32.00	522.17	158.28	1082.51	484.19	14.99	3.67	1.84	5.18	0.00	5.18	1.84
VANO 4	33.15	33.00	622.13	183.11	1132.12	575.18	17.86	4.38	2.19	5.18	0.00	5.18	2.19
VANO 4	34.43	34.00	723.29	208.18	1183.87	666.12	20.77	5.09	2.54	5.18	0.00	5.18	2.54
VANO 4	35.70	35.00	825.63	233.51	1237.75	756.98	23.71	5.81	2.90	5.18	0.00	5.18	2.90
VANO 4	35.70	36.00	825.63	233.51	1237.75	756.98	23.71	5.81	2.90	5.18	0.00	5.18	2.90
VANO 4	36.98	37.00	929.11	259.09	1293.77	847.76	26.68	6.54	3.27	5.18	0.00	5.18	3.27
VANO 4	38.25	38.00	1033.69	284.92	1351.93	938.46	29.68	7.27	3.64	5.18	0.00	5.18	3.64
VANO 4	39.53	39.00	1139.33	310.99	1412.22	1029.06	32.72	8.02	4.01	5.18	0.00	5.18	4.01
VANO 4	40.80	40.00	1246.00	337.32	1474.64	1119.57	35.78	8.77	4.38	5.18	0.00	5.18	4.38
VANO 4	40.80	41.00	1246.00	337.32	1474.64	1119.57	35.78	8.77	4.38	5.18	0.00	5.18	4.38
VANO 4	42.08	42.00	1353.64	363.90	1539.23	1209.96	38.87	9.52	4.76	5.18	0.00	5.18	4.76
VANO 4	43.35	43.00	1462.20	390.73	1605.83	1300.23	41.99	10.29	5.14	5.18	0.00	5.18	5.14
VANO 4	44.63	44.00	1559.90	417.80	1674.72	1388.72	44.79	10.97	5.49	5.18	0.00	5.49	5.49
VANO 4	45.90	45.00	1664.60	445.13	1745.61	1478.75	47.80	11.71	5.86	5.18	0.00	5.86	5.86
VANO 4	45.90	46.00	1664.60	445.13	1745.61	1478.75	47.80	11.71	5.86	5.18	0.00	5.86	5.86
VANO 4	47.18	47.00	1775.63	472.71	1818.71	1568.65	50.99	12.49	6.25	5.18	0.00	6.25	6.25
VANO 4	48.45	48.00	1887.37	500.54	1894.09	1658.41	54.20	13.28	6.64	5.18	0.00	6.64	6.64
VANO 4	49.73	49.00	1999.76	528.62	1971.31	1748.03	57.42	14.07	7.03	5.18	0.00	7.03	7.03

ARMADO DE VOLADIZO JUNTO AL ALMA

CARACT. RASANTE

M est (S2)=	1.38
Inercia XX =	20.0
fyd cercos =	40816
coig tetha =	1
K rasant =	0.069
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

	Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	ARMADO DEFINITIV As ext	As int
	162.25	39.75	19.88	18.77	0.00	19.88	19.88
	126.76	31.06	15.53	18.77	0.00	18.77	15.53
	119.46	29.27	14.63	18.77	0.00	18.77	14.63
	112.19	27.49	13.74	18.77	0.00	18.77	13.74
	104.97	25.72	12.86	18.77	0.00	18.77	12.86
	104.97	25.72	12.86	18.77	0.00	18.77	12.86
	97.80	23.96	11.98	18.77	0.00	18.77	11.98
	90.68	22.22	11.11	18.77	0.00	18.77	11.11
	83.62	20.49	10.24	18.77	0.00	18.77	10.24
	76.62	18.77	9.39	18.77	0.00	18.77	9.39
	76.62	18.77	9.39	18.77	0.00	18.77	9.39
	69.68	17.07	8.54	18.77	0.00	18.77	8.54
	62.81	15.39	7.69	18.77	0.00	18.77	7.69
	56.01	13.72	6.86	18.77	0.00	18.77	6.86
	49.27	12.07	6.04	18.77	0.00	18.77	6.04
	48.10	11.79	5.89	18.77	0.00	18.77	5.89
	41.44	10.15	5.08	18.77	0.00	18.77	5.08
	34.86	8.54	4.27	18.77	0.00	18.77	4.27
	29.51	7.23	3.62	18.77	0.00	18.77	3.62
	34.96	8.57	4.28	18.77	0.00	18.77	4.28
	34.96	8.57	4.28	18.77	0.00	18.77	4.28
	40.52	9.93	4.96	18.77	0.00	18.77	4.96
	46.17	11.31	5.66	18.77	0.00	18.77	5.66
	51.91	12.72	6.36	18.77	0.00	18.77	6.36
	29.63	7.26	3.63	18.77	0.00	18.77	3.63
	29.63	7.26	3.63	18.77	0.00	18.77	3.63
	47.61	11.66	5.83	18.77	0.00	18.77	5.83
	41.85	10.25	5.13	18.77	0.00	18.77	5.13
	36.19	8.87	4.43	18.77	0.00	18.77	4.43
	30.62	7.50	3.75	18.77	0.00	18.77	3.75
	30.62	7.50	3.75	18.77	0.00	18.77	3.75
	32.63	8.00	4.00	18.77	0.00	18.77	4.00
	39.13	9.59	4.79	18.77	0.00	18.77	4.79
	45.70	11.20	5.60	18.77	0.00	18.77	5.60
	52.35	12.83	6.41	18.77	0.00	18.77	6.41
	52.35	12.83	6.41	18.77	0.00	18.77	6.41
	59.07	14.47	7.24	18.77	0.00	18.77	7.24
	65.87	16.14	8.07	18.77	0.00	18.77	8.07
	72.74	17.82	8.91	18.77	0.00	18.77	8.91
	79.67	19.52	9.76	18.77	0.00	18.77	9.76
	79.67	19.52	9.76	18.77	0.00	18.77	9.76
	86.66	21.23	10.62	18.77	0.00	18.77	10.62
	93.72	22.96	11.48	18.77	0.00	18.77	11.48
	100.83	24.70	12.35	18.77	0.00	18.77	12.35
	108.00	26.46	13.23	18.77	0.00	18.77	13.23
	108.00	26.46	13.23	18.77	0.00	18.77	13.23
	115.22	28.23	14.11	18.77	0.00	18.77	14.11
	122.49	30.01	15.01	18.77	0.00	18.77	15.01
	129.80	31.80	15.90	18.77	0.00	18.77	15.90
	165.29	40.50	20.25	18.77	0.00	20.25	20.25
	171.60	42.04	21.02	18.77	0.00	21.02	21.02
	137.45	33.68	16.84	18.77	0.00	18.77	16.84
	129.71	31.78	15.89	18.77	0.00	18.77	15.89
	122.01	29.89	14.95	18.77	0.00	18.77	14.95
	114.35	28.02	14.01	18.77	0.00	18.77	14.01
	114.35	28.02	14.01	18.77	0.00	18.77	14.01
	106.75	26.15	13.08	18.77	0.00	18.77	13.08
	99.20	24.30	12.15	18.77	0.00	18.77	12.15
	91.71	22.47	11.23	18.77	0.00	18.77	11.23
	84.29	20.65	10.33	18.77	0.00	18.77	10.33
	84.29	20.65	10.33	18.77	0.00	18.77	10.33
	76.93	18.85	9.42	18.77	0.00	18.77	9.42
	69.63	17.06	8.53	18.77	0.00	18.77	8.53
	62.41	15.29	7.65	18.77	0.00	18.77	7.65
	55.27	13.54	6.77	18.77	0.00	18.77	6.77
	54.10	13.26	6.63	18.77	0.00	18.77	6.63
	47.04	11.52	5.76	18.77	0.00	18.77	5.76
	40.05	9.81	4.91	18.77	0.00	18.77	4.91
	33.14	8.12	4.06	18.77	0.00	18.77	4.06
	31.40	7.69	3.85	18.77	0.00	18.77	3.85
	31.40	7.69	3.85	18.77	0.00	18.77	3.85
	37.30	9.14	4.57	18.77	0.00	18.77	4.57
	43.30	10.61	5.30	18.77	0.00	18.77	5.30
	49.40	12.10	6.05	18.77	0.00	18.77	6.05
	29.26	7.17	3.58	18.77	0.00	18.77	3.58
	29.26	7.17	3.58	18.77	0.00	18.77	3.58
	46.51	11.40	5.70	18.77	0.00	18.77	5.70
	40.40	9.90	4.95	18.77	0.00	18.77	4.95
	34.38	8.42	4.21	18.77	0.00	18.77	4.21
	29.17	7.15	3.57	18.77	0.00	18.77	3.57
	29.17	7.15	3.57	18.77	0.00	18.77	3.57
	35.97	8.81	4.41	18.77	0.00	18.77	4.41
	42.86	10.50	5.25	18.77	0.00	18.77	5.25
	49.83	12.21	6.10	18.77	0.00	18.77	6.10
	56.88	13.94	6.97	18.77	0.00	18.77	6.97
	56.88	13.94	6.97	18.77	0.00	18.77	6.97
	64.01	15.68	7.84	18.77	0.00	18.77	7.84
	71.22	17.45	8.72	18.77	0.00	18.77	8.72
	78.49	19.23	9.62	18.77	0.00	18.77	9.62
	85.84	21.03	10.52	18.77	0.00	18.77	10.52
	85.84	21.03	10.52	18.77	0.00	18.77	10.52
	93.26	22.85	11.42	18.77	0.00	18.77	11.42
	100.74	24.68	12.34	18.77	0.00	18.77	12.34
	107.47	26.33	13.17	18.77	0.00	18.77	13.17
	114.68	28.10	14.05	18.77	0.00	18.77	14.05
	114.68	28.10	14.05	18.77	0.00	18.77	14.05
	122.33	29.97	14.99	18.77	0.00	18.77	14.99
	130.03	31.86	15.93	18.77	0.00	18.77	15.93
	137.77	33.75	16.88	18.77	0.00	18.77	16.88

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC COV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE VOLADIZO EN ZONA EXTERIOR

CARACT. RASANTE

M est (S1)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO — **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	As ext	As int
VANO 5	0.00	1.00	2471.64	701.27	2252.71	1844.60	70.97	17.39	8.69	5.18	0.00	8.69	8.69
VANO 5	1.28	2.00	1976.01	672.69	2172.15	1755.13	56.74	13.90	6.95	5.18	0.00	6.95	6.95
VANO 5	2.55	3.00	1863.62	644.35	2093.91	1665.51	53.52	13.11	6.56	5.18	0.00	6.56	6.56
VANO 5	3.83	4.00	1762.93	616.27	2017.69	1575.76	50.62	12.40	6.20	5.18	0.00	6.20	6.20
VANO 5	5.10	5.00	1665.21	588.45	1943.60	1485.86	47.82	11.72	5.86	5.18	0.00	5.86	5.86
VANO 5	5.10	6.00	1665.21	588.45	1943.60	1485.86	47.82	11.72	5.86	5.18	0.00	5.86	5.86
VANO 5	6.38	7.00	1568.26	560.93	1871.69	1395.84	45.03	11.03	5.52	5.18	0.00	5.52	5.52
VANO 5	7.65	8.00	1470.56	533.67	1801.10	1307.36	42.23	10.35	5.17	5.18	0.00	5.18	5.17
VANO 5	8.93	9.00	1361.99	506.65	1734.23	1217.08	39.11	9.58	4.79	5.18	0.00	5.18	4.79
VANO 5	10.20	10.00	1254.35	479.88	1668.67	1126.70	36.02	8.82	4.41	5.18	0.00	5.18	4.41
VANO 5	10.20	11.00	1254.35	479.88	1668.67	1126.70	36.02	8.82	4.41	5.18	0.00	5.18	4.41
VANO 5	11.48	12.00	1147.68	452.96	1604.13	1036.20	32.96	8.07	4.04	5.18	0.00	5.18	4.04
VANO 5	12.75	13.00	1042.03	426.60	1543.44	945.60	29.92	7.33	3.67	5.18	0.00	5.18	3.67
VANO 5	14.03	14.00	937.44	400.50	1484.16	854.91	26.92	6.60	3.30	5.18	0.00	5.18	3.30
VANO 5	15.30	15.00	833.95	374.65	1427.00	764.13	23.95	5.87	2.93	5.18	0.00	5.18	2.93
VANO 5	15.30	16.00	817.01	374.65	1427.00	747.19	23.46	5.75	2.87	5.18	0.00	5.18	2.87
VANO 5	16.58	17.00	714.66	349.04	1371.55	656.33	20.52	5.03	2.51	5.18	0.00	5.18	2.51
VANO 5	17.85	18.00	613.48	323.69	1319.03	565.40	17.62	4.32	2.16	5.18	0.00	5.18	2.16
VANO 5	19.13	19.00	513.51	298.58	1268.22	474.41	14.75	3.61	1.81	5.18	0.00	5.18	1.81
VANO 5	20.40	20.00	461.27	142.55	1219.53	383.37	13.25	3.25	1.62	5.18	0.00	5.18	1.62
VANO 5	20.40	21.00	461.27	142.55	1219.53	383.37	13.25	3.25	1.62	5.18	0.00	5.18	1.62
VANO 5	21.68	22.00	533.87	138.73	1179.62	292.29	15.33	3.76	1.88	5.18	0.00	5.18	1.88
VANO 5	22.95	23.00	607.89	134.90	1142.43	201.18	17.46	4.28	2.14	5.18	0.00	5.18	2.14
VANO 5	24.23	24.00	683.32	131.07	1107.38	110.05	19.62	4.81	2.40	5.18	0.00	5.18	2.40
VANO 5	25.50	25.00	415.92	203.67	1074.68	18.91	11.94	2.93	1.46	5.18	0.00	5.18	1.46
VANO 5	25.50	26.00	415.92	153.08	1024.10	18.91	11.94	2.93	1.46	5.18	0.00	5.18	1.46
VANO 5	26.78	27.00	720.02	129.46	988.33	74.59	20.68	5.07	2.53	5.18	0.00	5.18	2.53
VANO 5	28.05	28.00	644.84	106.14	975.12	165.01	18.52	4.54	2.27	5.18	0.00	5.18	2.27
VANO 5	29.33	29.00	571.06	83.13	1008.40	256.11	16.40	4.02	2.01	5.18	0.00	5.18	2.01
VANO 5	30.60	30.00	498.70	60.41	1043.50	347.17	14.32	3.51	1.75	5.18	0.00	5.18	1.75
VANO 5	30.60	31.00	498.70	60.41	1043.50	347.17	14.32	3.51	1.75	5.18	0.00	5.18	1.75
VANO 5	31.88	32.00	474.33	146.82	1088.18	438.19	13.62	3.34	1.67	5.18	0.00	5.18	1.67
VANO 5	33.15	33.00	574.53	168.05	1134.59	529.15	16.50	4.04	2.02	5.18	0.00	5.18	2.02
VANO 5	34.43	34.00	675.91	189.60	1183.75	620.04	19.41	4.76	2.38	5.18	0.00	5.18	2.38
VANO 5	35.70	35.00	778.46	212.27	1235.22	710.87	22.35	5.48	2.74	5.18	0.00	5.18	2.74
VANO 5	35.70	36.00	778.46	212.27	1235.22	710.87	22.35	5.48	2.74	5.18	0.00	5.18	2.74
VANO 5	36.98	37.00	882.13	235.19	1288.61	801.60	25.33	6.21	3.10	5.18	0.00	5.18	3.10
VANO 5	38.25	38.00	986.88	258.36	1344.52	892.25	28.34	6.94	3.47	5.18	0.00	5.18	3.47
VANO 5	39.53	39.00	1092.69	282.02	1402.58	982.80	31.38	7.69	3.84	5.18	0.00	5.18	3.84
VANO 5	40.80	40.00	1199.49	306.98	1463.83	1073.24	34.44	8.44	4.22	5.18	0.00	5.18	4.22
VANO 5	40.80	41.00	1199.49	306.98	1463.83	1073.24	34.44	8.44	4.22	5.18	0.00	5.18	4.22
VANO 5	42.08	42.00	1307.25	332.19	1527.19	1163.57	37.54	9.20	4.60	5.18	0.00	5.18	4.60
VANO 5	43.35	43.00	1415.92	359.16	1594.18	1253.78	40.66	9.96	4.98	5.18	0.00	5.18	4.98
VANO 5	44.63	44.00	1525.44	386.37	1663.29	1343.87	43.80	10.73	5.37	5.18	0.00	5.37	5.37
VANO 5	45.90	45.00	1635.77	413.84	1734.52	1433.83	46.97	11.51	5.75	5.18	0.00	5.75	5.75
VANO 5	45.90	46.00	1635.77	413.84	1734.52	1433.83	46.97	11.51	5.75	5.18	0.00	5.75	5.75
VANO 5	47.18	47.00	1746.83	441.55	1807.87	1523.65	50.16	12.29	6.14	5.18	0.00	6.14	6.14
VANO 5	48.45	48.00	1858.59	469.51	1883.34	1613.33	53.37	13.08	6.54	5.18	0.00	6.54	6.54
VANO 5	49.73	49.00	1970.96	497.72	1960.93	1702.88	56.60	13.87	6.93	5.18	0.00	6.93	6.93
VANO 5	51.00	50.00	2466.55	526.18	2040.64	1792.27	70.63	17.35	8.68	5.18	0.00	8.68	8.68
VANO 6	0.00	1.00	2406.83	757.03	2337.01	1742.10	69.11	16.93	8.47	5.18	0.00	8.47	8.47
VANO 6	1.20	2.00	1891.68	730.03	2261.03	1657.69	54.32	13.31	6.65	5.18	0.00	6.65	6.65
VANO 6	2.40	3.00	1785.62	703.26	2186.91	1573.15	51.28	12.56	6.28	5.18	0.00	6.28	6.28
VANO 6	3.60	4.00	1680.19	676.72	2114.81	1488.48	48.25	11.82	5.91	5.18	0.00	5.91	5.91
VANO 6	4.80	5.00	1575.43	650.41	2044.73	1403.69	45.24	11.08	5.54	5.18	0.00	5.54	5.54
VANO 6	4.80	6.00	1575.43	650.41	2044.73	1403.69	45.24	11.08	5.54	5.18	0.00	5.54	5.54
VANO 6	6.00	7.00	1471.41	624.33	1976.53	1318.78	42.25	10.35	5.18	5.18	0.00	5.18	5.18
VANO 6	7.20	8.00	1368.18	598.47	1910.27	1233.75	39.29	9.63	4.81	5.18	0.00	5.18	4.81
VANO 6	8.40	9.00	1265.78	572.85	1845.91	1148.61	36.35	8.91	4.45	5.18	0.00	5.18	4.45
VANO 6	9.60	10.00	1164.26	547.45	1783.63	1063.36	33.43	8.19	4.10	5.18	0.00	5.18	4.10
VANO 6	9.60	11.00	1164.26	547.45	1783.63	1063.36	33.43	8.19	4.10	5.18	0.00	5.18	4.10
VANO 6	10.80	12.00	1063.67	522.29	1723.21	978.02	30.54	7.48	3.74	5.18	0.00	5.18	3.74
VANO 6	12.00	13.00	964.04	497.35	1664.87	892.58	27.68	6.78	3.39	5.18	0.00	5.18	3.39
VANO 6	13.20	14.00	865.42	472.64	1608.4	807.06	24.85	6.09	3.04	5.18	0.00	5.18	3.04
VANO 6	14.40	15.00	767.84	448.16	1553.93	721.46	22.05	5.40	2.70	5.18	0.00	5.18	2.70
VANO 6	14.40	16.00	750.89	448.16	1553.93	704.52	21.56	5.28	2.64	5.18	0.00	5.18	2.64
VANO 6	15.60	17.00	654.39	423.91	1501.33	618.85	18.79	4.60	2.30	5.18	0.00	5.18	2.30
VANO 6	16.80	18.00	558.99	399.88	1450.76	533.12	16.05	3.93	1.97	5.18	0.00	5.18	1.97
VANO 6	18.00	19.00	464.74	376.09	1402.1	447.34	13.35	3.27	1.63	5.18	0.00	5.18	1.63
VANO 6	19.20	20.00	477.66	226.51	1355.5	361.51	13.72	3.36	1.68	5.18	0.00	5.18	1.68
VANO 6	19.20	21.00	477.66	226.51	1355.5	361.51	13.72	3.36	1.68	5.18	0.00	5.18	1.68
VANO 6	20.40	22.00	558.53	207.33	1311.1	275.65	16.04	3.93	1.96	5.18	0.00	5.18	1.96
VANO 6	21.60	23.00	640.71	197.25	1268.8	189.76	18.40	4.51	2.25	5.18	0.00	5.18	2.25
VANO 6	22.80	24.00	724.21	187.17	1228.7	103.86	20.80	5.10	2.55	5.18	0.00	5.18	2.55
VANO 6	24.00	25.00	421.04	260.02	1190.8	17.95	12.09	2.96	1.48	5.18	0.00	5.18	1.48
VANO 6	24.00	26.00	421.04	260.02	1190.8	17.95	12.09	2.96	1.48	5.18	0.00	5.18	1.48
VANO 6	25.20	27.00	744.38	237.62	1155.01	85.59	21.38	5.24	2.62	5.18	0.00	5.18	2.62
VANO 6	26.40	28.00	661.03	215.51	1121.48	172.39	18.98	4.65	2.33	5.18	0.00	5.18	2.33
VANO 6	27.60	29.00	579.01	193.68	1103.61	259.16	16.63	4.07	2.04	5.18	0.00	5.18	2.04
VANO 6	28.80	30.00	498.29	172.12	1088.11	345.91	14.31	3.51	1.75	5.18	0.00	5.18	1.75
VANO 6	28.80	31.00	498.29	172.12	1088.11	345.91	14.31	3.51	1.75	5.18	0.00	5.18	1.75
VANO 6	30.00	32.00	444.49	126.71	1074.84	432.61	12.76	3.13	1.56	5.18	0.00	5.18	1.56
VANO 6	31.20	33.00	538.90	116.63	1101.40	514.12	15.47	3.79	1.90	5.18	0.00	5.18	1.90
VANO 6	32.40	34.00	634.44	128.92	1140.11	599.82	18.22	4.46	2.23	5.18	0.00	5.18	2.23
VANO 6	33.60	35.00	731.08	142.87	1180.82	685.45	20.99	5.14	2.57	5.18	0.00	5.18	2.57
VANO 6	33.60	36.00	731.08	142.87	1180.82	685.45	20.99	5.14	2.57	5.18	0.00	5.18	2.57
VANO 6	34.80	37.00	828.77	157.04	1223.46	771.01	23.80	5.83	2.92	5.18	0.00	5.18	2.92
VANO 6	36.00	38.00	927.50	171.45	1268.06	856.49	26.63	6.53	3.26	5.18	0.00	5.18	3.26
VANO 6	37.20	39.00	1027.21	191.90	1320.43	941.88	29.50	7.23	3.61	5.18	0.00	5.18	3.61
VANO 6	38.40	40.00	1127.88	213.19	1375.36	1027.17	32.39	7.93	3.97	5.18	0.00	5.18	3.97
VANO 6	38.40	41.00	1127.88	213.19	1375.36	1027.17	32.39	7.93	3.97	5.18	0.00	5.18	3.97
VANO 6	39.60	42.00	1229.45	234.71	1432.24	1112.36	35.30	8.65	4.32	5.18	0.00	5.18	4.32
VANO 6	40.80	43.00	1331.89	256.45	1491.08	1197.44	38.25	9.37	4.69	5.18	0.00	5.18	4.69
VANO 6	42.00	44.00	1435.15	278.43	1551.87	1282.41	41.21	10.10	5.05	5.18	0.00	5.18	5.05
VANO 6	43.20	45.00	1539.17	300.63	1614.61	1367.26	44.20	10.83	5.41	5.18	0.00	5.41	5.41
VANO 6	43.20	46.00	1539.17	300.63	1614.61	1367.26	44.20	10.83	5.41	5.18	0.00	5.41	5.41
VANO 6	44.40	47.00	1643.90	323.07	1679.31	1451.99	47.21	11.57	5.78	5.18	0.00	5.78	5.78
VANO 6	45.60	48.00	1749.29	346.56	1746.52	1536.59	50.23	12.31	6.15	5.18	0.00	6.15	6.15
VANO 6	46.80	49.00	1855.28	370.34	1815.72	1621.06	53.28	13.05	6.53	5.18	0.00	6.53	6.53

ARMADO DE VOLADIZO JUNTO AL ALMA

CARACT. RASANTE

M est (S2)=	1.38
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.069
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO — **ARMADO DEFINITIV**

	Dos caras	Una cara	FLEXIÓN TRANS			
Us (t)	As ras/m	As (Rd)	As ext-sup	As int-inf	As ext	As int
170.28	41.72	20.86	18.77	0.00	20.86	20.86
136.14	33.35	16.68	18.77	0.00	18.77	16.68
128.40	31.46	15.73	18.77	0.00	18.77	15.73
121.46	29.76	14.88	18.77	0.00	18.77	14.88
114.73	28.11	14.05	18.77	0.00	18.77	14.05
114.73	28.11	14.05	18.77	0.00	18.77	14.05
108.05	26.47	13.24	18.77	0.00	18.77	13.24
101.31	24.82	12.41	18.77	0.00	18.77	12.41
93.83	22.99	11.49	18.77	0.00	18.77	11.49
86.42	21.17	10.59	18.77	0.00	18.77	10.59
86.42	21.17	10.59	18.77	0.00	18.77	10.59
79.07	19.37	9.69	18.77	0.00	18.77	9.69
71.79	17.59	8.79	18.77	0.00	18.77	8.79
64.59	15.82	7.91	18.77	0.00	18.77	7.91
57.46	14.08	7.04	18.77	0.00	18.77	7.04
56.29	13.79	6.90	18.77	0.00	18.77	6.90
49.24	12.06	6.03	18.77	0.00	18.77	6.03
42.27	10.36	5.18	18.77	0.00	18.77	5.18
35.38	8.67	4.33	18.77	0.00	18.77	4.33
31.78	7.79	3.89	18.77	0.00	18.77	3.89
31.78	7.79	3.89	18.77	0.00	18.77	3.89
36.78	9.01	4.51	18.77	0.00	18.77	4.51
41.88	10.26	5.13	18.77	0.00	18.77	5.13
47.08	11.53	5.77	18.77	0.00	18.77	5.77
28.66	7.02	3.51	18.77	0.00	18.77	3.51
28.66	7.02	3.51	18.77	0.00	18.77	3.51
49.61	12.15	6.08	18.77	0.00	18.77	6.08
44.43	10.88	5.44	18.77	0.00	18.77	5.44
39.34	9.64	4.82	18.77	0.00	18.77	4.82
34.36	8.42	4.21	18.77	0.00	18.77	4.21
34.36	8.42	4.21	18.77	0.00	18.77	4.21
32.68	8.01	4.00	18.77	0.00	18.77	4.00
39.58	9.70	4.85	18.77	0.00	18.77	4.85
46.57	11.41	5.70	18.77	0.00	18.77	5.70
53.63	13.14	6.57	18.77	0.00	18.77	6.57
53.63	13.14	6.57	18.77	0.00	18.77	6.57
60.77	14.89	7.44	18.77	0.00	18.77	7.44
67.99	16.66	8.33	18.77	0.00	18.77	8.33
75.28	18.44	9.22	18.77	0.00	18.77	9.22
82.64	20.25	10.12	18.77	0.00	18.77	10.12
82.64	20.25	10.12	18.77	0.00	18.77	10.12
90.06	22.07	11.03	18.77	0.00	18.77	11.03
97.55	23.90	11.95	18.77	0.00	18.77	11.95
105.10	25.75	12.87	18.77	0.00	18.77	12.87
112.70	27.61	13.81	18.77	0.00	18.77	13.81
112.70	27.61	13.81	18.77	0.00	18.77	13.81
120.35	29.49	14.74	18.77	0.00	18.77	14.74
128.05	31.37	15.69	18.77	0.00	18.77	15.69
135.79	33.27	16.63	18.77	0.00	18.77	16.63
169.93	41.63	20.82	18.77	0.00	20.82	20.82
165.82	40.63	20.31	18.77	0.00	20.31	20.31
130.33	31.93	15.97	18.77	0.00	18.77	15.97
123.02	30.14	15.07	18.77	0.00	18.77	15.07
115.76	28.36	14.18	18.77	0.00	18.77	14.18
108.54	26.59	13.30	18.77	0.00	18.77	13.30
108.54	26.59	13.30	18.77	0.00	18.77	13.30
101.37	24.84	12.42	18.77	0.00	18.77	12.42
94.26	23.09	11.55	18.77	0.00	18.77	11.55
87.21	21.37	10.68	18.77	0.00	18.77	10.68
80.21	19.65	9.83	18.77	0.00	18.77	9.83
80.21	19.65	9.83	18.77	0.00	18.77	9.83
73.28	17.95	8.98	18.77	0.00	18.77	8.98
66.42	16.27	8.14	18.77	0.00	18.77	8.14
59.62	14.61	7.30	18.77	0.00	18.77	7.30
52.90	12.96	6.48	18.77	0.00	18.77	6.48
51.73	12.67	6.34	18.77	0.00	18.77	6.34
45.08	11.05	5.52	18.77	0.00	18.77	5.52
38.51	9.44	4.72	18.77	0.00	18.77	4.72
32.02	7.84	3.92	18.77	0.00	18.77	3.92
32.91	8.06	4.03	18.77	0.00	18.77	4.03
32.91	8.06	4.03	18.77	0.00	18.77	4.03
38.48	9.43	4.71	18.77	0.00	18.77	4.71
44.14	10.81	5.41	18.77	0.00	18.77	5.41
49.89	12.22	6.11	18.77	0.00	18.77	6.11
29.01	7.11	3.55	18.77	0.00	18.77	3.55
29.01	7.11	3.55	18.77	0.00	18.77	3.55
51.28	12.56	6.28	18.77	0.00	18.77	6.28
45.54	11.16	5.58	18.77	0.00	18.77	5.58
39.89	9.77	4.89	18.77	0.00	18.77	4.89
34.33	8.41	4.21	18.77	0.00	18.77	4.21
34.33	8.41	4.21	18.77	0.00	18.77	4.21
30.62	7.50	3.75	18.77	0.00	18.77	3.75
37.13	9.10	4.55	18.77	0.00	18.77	4.55
43.71	10.71	5.35	18.77	0.00	18.77	5.35
50.37	12.34	6.17	18.77	0.00	18.77	6.17
50.37	12.34	6.17	18.77	0.00	18.77	6.17
57.10	13.99	6.99	18.77	0.00	18.77	6.99
63.90	15.66	7.83	18.77	0.00	18.77	7.83
70.77	17.34	8.67	18.77	0.00	18.77	8.67
77.71	19.04	9.52	18.77	0.00	18.77	9.52
77.71	19.04	9.52	18.77	0.00	18.77	9.52
84.70	20.75	10.38	18.77	0.00	18.77	10.38
91.76	22.48	11.24	18.77	0.00	18.77	11.24
98.87	24.22	12.11	18.77	0.00	18.77	12.11
106.04	25.98	12.99	18.77	0.00	18.77	12.99
106.04	25.98	12.99	18.77	0.00	18.77	12.99
113.26	27.75	13.87	18.77	0.00	18.77	13.87
120.52	29.53	14.76	18.77	0.00	18.77	14.76
127.82	31.32	15.66	18.77	0.00	18.77	15.66

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC COV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	75%	75%
% PERDIDA	0.16	20%	20%
COEF. SEG	1	1.0	1.0

ARMADO DE VOLADIZO EN ZONA EXTERIOR

CARACT. RASANTE

M est (S1)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

ARMADO DE VOLADIZO JUNTO AL ALMA

CARACT. RASANTE

M est (S2)=	1.38
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.069
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con
VANO 7	0.00	1.00	2316.53	710.45	2345.13	1717.32
VANO 7	1.20	2.00	1801.53	683.29	2269.39	1632.98
VANO 7	2.40	3.00	1698.44	656.36	2195.10	1548.51
VANO 7	3.60	4.00	1605.64	629.66	2124.05	1463.91
VANO 7	4.80	5.00	1513.50	603.18	2054.14	1379.18
VANO 7	4.80	6.00	1513.50	603.18	2054.14	1379.18
VANO 7	6.00	7.00	1422.07	576.92	1986.18	1294.33
VANO 7	7.20	8.00	1331.41	550.89	1920.16	1209.36
VANO 7	8.40	9.00	1232.18	525.09	1856.09	1124.28
VANO 7	9.60	10.00	1130.68	499.51	1793.96	1039.09
VANO 7	9.60	11.00	1130.68	499.51	1793.96	1039.09
VANO 7	10.80	12.00	1030.10	474.16	1733.77	953.80
VANO 7	12.00	13.00	930.46	449.04	1675.52	868.42
VANO 7	13.20	14.00	831.83	424.14	1619.32	782.95
VANO 7	14.40	15.00	734.22	399.46	1564.16	697.40
VANO 7	14.40	16.00	717.28	399.46	1564.16	680.45
VANO 7	15.60	17.00	620.74	375.01	1512.14	594.83
VANO 7	16.80	18.00	525.30	350.79	1461.17	509.14
VANO 7	18.00	19.00	430.99	326.79	1413.34	423.39
VANO 7	19.20	20.00	489.77	177.07	1366.66	337.60
VANO 7	19.20	21.00	489.77	177.07	1366.66	337.60
VANO 7	20.40	22.00	567.43	166.70	1322.03	251.77
VANO 7	21.60	23.00	646.40	156.32	1280.55	165.91
VANO 7	22.80	24.00	726.69	145.95	1240.22	80.03
VANO 7	24.00	25.00	399.83	135.57	1202.05	10.26
VANO 7	24.00	26.00	399.83	135.57	1202.05	10.26
VANO 7	25.20	27.00	711.62	187.04	1166.02	97.04
VANO 7	26.40	28.00	631.31	164.70	1134.02	183.82
VANO 7	27.60	29.00	552.32	142.63	1120.16	270.58
VANO 7	28.80	30.00	474.65	120.83	1107.45	357.31
VANO 7	28.80	31.00	474.65	120.83	1107.45	357.31
VANO 7	30.00	32.00	441.60	111.38	1097.08	444.01
VANO 7	31.20	33.00	535.90	124.89	1117.71	525.19
VANO 7	32.40	34.00	631.32	143.44	1155.16	610.89
VANO 7	33.60	35.00	727.84	163.77	1196.76	696.51
VANO 7	33.60	36.00	727.84	163.77	1196.76	696.51
VANO 7	34.80	37.00	825.43	184.39	1239.50	782.07
VANO 7	36.00	38.00	924.05	205.23	1284.38	867.55
VANO 7	37.20	39.00	1023.67	226.30	1330.11	952.93
VANO 7	38.40	40.00	1124.25	247.59	1381.76	1038.23
VANO 7	38.40	41.00	1124.25	247.59	1381.76	1038.23
VANO 7	39.60	42.00	1225.73	269.50	1438.03	1123.42
VANO 7	40.80	43.00	1328.09	292.13	1496.14	1208.51
VANO 7	42.00	44.00	1431.26	314.99	1557.19	1293.48
VANO 7	43.20	45.00	1535.21	338.08	1620.19	1378.33
VANO 7	43.20	46.00	1535.21	338.08	1620.19	1378.33
VANO 7	44.40	47.00	1639.87	361.39	1684.13	1463.07
VANO 7	45.60	48.00	1745.20	384.93	1752.06	1547.68
VANO 7	46.80	49.00	1851.13	408.69	1821.78	1632.16
VANO 7	48.00	50.00	2366.13	432.68	1892.20	1716.50
VANO 8	0.00	1.00	2316.53	710.45	2236.17	1719.11
VANO 8	1.20	2.00	1801.53	683.29	2161.46	1634.77
VANO 8	2.40	3.00	1698.44	656.36	2088.38	1550.30
VANO 8	3.60	4.00	1605.64	629.66	2017.42	1465.71
VANO 8	4.80	5.00	1513.50	603.18	1947.60	1380.98
VANO 8	4.80	6.00	1513.50	603.18	1947.60	1380.98
VANO 8	6.00	7.00	1422.07	576.92	1880.11	1296.14
VANO 8	7.20	8.00	1331.41	550.89	1814.64	1211.17
VANO 8	8.40	9.00	1232.18	525.09	1750.60	1126.10
VANO 8	9.60	10.00	1130.68	499.51	1689.20	1040.92
VANO 8	9.60	11.00	1130.68	499.51	1689.20	1040.92
VANO 8	10.80	12.00	1030.10	474.16	1629.42	955.63
VANO 8	12.00	13.00	930.46	449.04	1571.57	870.26
VANO 8	13.20	14.00	831.83	424.14	1515.65	784.79
VANO 8	14.40	15.00	734.22	399.46	1461.65	699.25
VANO 8	14.40	16.00	717.28	399.46	1461.65	682.30
VANO 8	15.60	17.00	620.74	375.01	1409.60	596.69
VANO 8	16.80	18.00	525.30	350.79	1359.47	511.01
VANO 8	18.00	19.00	430.99	326.79	1311.27	425.27
VANO 8	19.20	20.00	489.77	177.07	1265.13	339.48
VANO 8	19.20	21.00	489.77	177.07	1265.13	339.48
VANO 8	20.40	22.00	567.43	166.70	1221.05	253.66
VANO 8	21.60	23.00	646.40	156.32	1179.15	167.81
VANO 8	22.80	24.00	726.69	145.95	1139.40	81.94
VANO 8	24.00	25.00	399.83	135.57	1103.91	5.42
VANO 8	24.00	26.00	399.83	135.57	1103.91	5.42
VANO 8	25.20	27.00	711.62	187.04	1073.32	91.80
VANO 8	26.40	28.00	631.31	164.70	1056.73	178.57
VANO 8	27.60	29.00	552.32	142.63	1057.99	262.63
VANO 8	28.80	30.00	474.65	120.83	1090.93	348.46
VANO 8	28.80	31.00	474.65	120.83	1090.93	348.46
VANO 8	30.00	32.00	441.60	111.38	1126.11	434.24
VANO 8	31.20	33.00	535.90	124.89	1165.21	519.98
VANO 8	32.40	34.00	631.32	143.44	1210.67	605.66
VANO 8	33.60	35.00	727.84	163.77	1258.04	691.28
VANO 8	33.60	36.00	727.84	163.77	1258.04	691.28
VANO 8	34.80	37.00	825.43	184.39	1307.89	776.83
VANO 8	36.00	38.00	924.05	205.23	1359.71	862.30
VANO 8	37.20	39.00	1023.67	226.30	1413.49	947.68
VANO 8	38.40	40.00	1124.25	247.59	1469.23	1032.97
VANO 8	38.40	41.00	1124.25	247.59	1469.23	1032.97
VANO 8	39.60	42.00	1225.73	269.50	1526.9	1118.15
VANO 8	40.80	43.00	1328.09	292.13	1586.86	1203.23
VANO 8	42.00	44.00	1431.26	314.99	1651.44	1288.20
VANO 8	43.20	45.00	1535.21	338.08	1717.98	1373.05
VANO 8	43.20	46.00	1535.21	338.08	1717.98	1373.05
VANO 8	44.40	47.00	1639.87	361.39	1786.38	1457.77
VANO 8	45.60	48.00	1745.20	384.93	1856.75	1542.38
VANO 8	46.80	49.00	1851.13	408.69	1929.04	1626.85

ARMADO DEFINITIV

	Dos caras Us (t)	Una cara As ras/m	As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	As ext	As int
VANO 7	66.52	16.30	8.15	5.18	0.00	8.15	8.15
VANO 7	51.73	12.67	6.34	5.18	0.00	6.34	6.34
VANO 7	48.77	11.95	5.97	5.18	0.00	5.97	5.97
VANO 7	46.11	11.30	5.65	5.18	0.00	5.65	5.65
VANO 7	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 7	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 7	40.84	10.00	5.00	5.18	0.00	5.18	5.00
VANO 7	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 7	35.38	8.67	4.33	5.18	0.00	5.18	4.33
VANO 7	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 7	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 7	29.58	7.25	3.62	5.18	0.00	5.18	3.62
VANO 7	26.72	6.55	3.27	5.18	0.00	5.18	3.27
VANO 7	23.89	5.85	2.93	5.18	0.00	5.18	2.93
VANO 7	21.08	5.17	2.58	5.18	0.00	5.18	2.58
VANO 7	20.60	5.05	2.52	5.18	0.00	5.18	2.52
VANO 7	17.82	4.37	2.18	5.18	0.00	5.18	2.18
VANO 7	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 7	12.38	3.03	1.52	5.18	0.00	5.18	1.52
VANO 7	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 7	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 7	16.29	3.99	2.00	5.18	0.00	5.18	2.00
VANO 7	18.56	4.55	2.27	5.18	0.00	5.18	2.27
VANO 7	20.87	5.11	2.56	5.18	0.00	5.18	2.56
VANO 7	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 7	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 7	20.43	5.01	2.50	5.18	0.00	5.18	2.50
VANO 7	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 7	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 7	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 7	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 7	12.68	3.11	1.55	5.18	0.00	5.18	1.55
VANO 7	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 7	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 7	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 7	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 7	23.70	5.81	2.90	5.18	0.00	5.18	2.90
VANO 7	26.53	6.50	3.25	5.18	0.00	5.18	3.25
VANO 7	29.40	7.20	3.60	5.18	0.00	5.18	3.60
VANO 7	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 7	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 7	35.20	8.62	4.31	5.18	0.00	5.18	4.31
VANO 7	38.14	9.34	4.67	5.18	0.00	5.18	4.67
VANO 7	41.10	10.07	5.03	5.18	0.00	5.18	5.03
VANO 7	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 7	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 7	47.09	11.54	5.77	5.18	0.00	5.77	5.77
VANO 7	50.11	12.28	6.14	5.18	0.00	6.14	6.14
VANO 7	53.16	13.02	6.51	5.18	0.00	6.51	6.51
VANO 7	67.94	16.65	8.32	5.18	0.00	8.32	8.32
VANO 7	66.52	16.30	8.15	5.18	0.00	8.15	8.15
VANO 7	51.73	12.67	6.34	5.18	0.00	6.34	6.34
VANO 7	48.77	11.95	5.97	5.18	0.00	5.97	5.97
VANO 7	46.11	11.30	5.65	5.18	0.00	5.65	5.65
VANO 7	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 7	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 7	40.84	10.00	5.00	5.18	0.00	5.18	5.00
VANO 7	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 7	35.38	8.67	4.33	5.18	0.00	5.18	4.33
VANO 7	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 7	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 7	29.58	7.25	3.62	5.18	0.00	5.18	3.62
VANO 7	26.72	6.55	3.27	5.18	0.00	5.18	3.27
VANO 7	23.89	5.85	2.93	5.18	0.00	5.18	2.93
VANO 7	21.08	5.17	2.58	5.18	0.00	5.18	2.58
VANO 7	20.60	5.05	2.52	5.18	0.00	5.18	2.52
VANO 7	17.82	4.37	2.18	5.18	0.00	5.18	2.18
VANO 7	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 7	12.38	3.03	1.52	5.18	0.00	5.18	1.52
VANO 7	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 7	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 7	16.29	3.99	2.00	5.18	0.00	5.18	2.00
VANO 7	18.56	4.55	2.27	5.18	0.00	5.18	2.27
VANO 7	20.87	5.11	2.56	5.18	0.00	5.18	2.56
VANO 7	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 7	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 7	20.43	5.01	2.50	5.18	0.00	5.18	2.50
VANO 7	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 7	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 7	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 7	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 7	12.68	3.11	1.55	5.18	0.00	5.18	1.55
VANO 7	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 7	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 7	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 7	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 7	23.70	5.81	2.90	5.18	0.00	5.18	2.90
VANO 7	26.53	6.50	3.25	5.18	0.00	5.18	3.25
VANO 7	29.40	7.20	3.60	5.18	0.00	5.18	3.60
VANO 7	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 7	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 7	35.20	8.62	4.31	5.18	0.00	5.18	4.31
VANO 7	38.14	9.34	4.67	5.18	0.00	5.18	4.67
VANO 7	41.10	10.07	5.03	5.18	0.00	5.18	5.03
VANO 7	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 7	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 7	47.09	11.54	5.77	5.18	0.00	5.77	5.77
VANO 7	50.11	12.28	6.14	5.18	0.00	6.14	6.14
VANO 7	53.16	13.02	6.51	5.18	0.00	6.51	6.51

ARMADO DE CORTANTE MÁXIMO

	Dos caras Us (t)	Una cara As ras/m	As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	As ext	As int
VANO 7	159.60	39.10	19.55	18.77	0.00	19.55	19.55
VANO 7	124.12	30.41	15.20	18.77	0.00	18.77	15.20
VANO 7	117.01	28.67	14.33	18.77	0.00	18.77	14.33
VANO 7	110.62	27.10	13.55	18.77	0.00	18.77	13.55
VANO 7	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 7	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 7	97.97	24.00	12.00	18.77	0.00	18.77	12.00
VANO 7	91.73	22.47	11.24	18.77	0.00	18.77	11.24
VANO 7	84.89	20.80	10.40	18.77	0.00	18.77	10.40
VANO 7	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 7	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 7	70.97	17.39	8.69	18.77	0.00	18.77	8.69
VANO 7	64.10	15.71	7.85	18.77	0.00	18.77	7.85
VANO 7	57.31	14.04	7.02	18.77	0.00	18.77	7.02
VANO 7	50.58	12.39	6.20	18.77	0.00	18.77	6.20
VANO 7	49.42	12.11	6.05	18.77	0.00	18.77	6.05
VANO 7	42.77	10.48	5.24	18.77	0.00	18.77	5.24
VANO 7	36.19	8.87	4.43	18.77	0.00	18.77	4.43
VANO 7	29.69	7.27	3.64	18.77	0.00	18.77	3.64
VANO 7	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 7	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 7	39.09	9.58	4.79	18.77	0.00	18.77	4.79
VANO 7	44.53	10.91	5.46	18.77	0.00	18.77	5.46
VANO 7	50.07	12.27	6.13	18.77	0.00	18.77	6.13
VANO 7	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 7	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 7	49.03	12.01	6.01	18.77	0.00	18.77	6.01
VANO 7	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 7	38.05	9.32	4.66	18.77	0.00	18.77	4.66
VANO 7	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 7	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 7	30.42	7.45	3.73	18.77	0.00	18.77	3.73
VANO 7	36.92	9.05	4.52	18.77	0.00	18.77	4.52
VANO 7	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 7	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 7	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 7	56.87	13.93	6.97	18.77	0.00	18.77	6.97
VANO 7	63.66	15.60	7.80	18.77	0.00	18.77	7.80
VANO 7	70.53	17.28	8.64	18.77	0.00	18.77	8.64
VANO 7	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 7	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 7	84.45	20.69	10.34	18.77	0.00	18.77	10.34
VANO 7	91.50	22.42	11.21	18.77	0.00	18.77	11.21
VANO 7	98.61	24.16	12.08	18.77	0.00	18.77	12.08
VANO 7	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 7	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 7	112.98	27.68	13.84	18.77	0.00	18.77	13.84
VANO 7	120.24	29.46	14.73	18.77	0.00	18.77	14.73
VANO 7	127.53	31.25	15.62	18.77	0.00	18.77	15.62
VANO 8	163.02	39.94	19.97	18.77	0.00	18.97	19.97
VANO 8	159.60	39.10	19.55	18.77	0.00	19.55	19.55
VANO 8	124.12	30.41	15.20	18.77	0.00	18.77	15.20
VANO 8	117.01	28.67	14.33	18.77	0.00	18.77	14.33
VANO 8	110.62	27.10	13.55	18.77	0.00	18.77	13.55
VANO 8	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 8	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 8	97.97	24.00	12.00	18.77	0.00	18.77	12.00
VANO 8	91.73	22.47	11.24	18.77	0.00	18.77	11.24
VANO 8	84.89	20.80	10.40	18.77	0.00	18.77	10.40
VANO 8	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 8	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 8	70.97	17.39	8.69	18.77	0.00	18.77	8.69
VANO 8	64.10	15.71	7.85	18.77	0.00	18.77	7.85
VANO 8	57.31	14.04	7.02	18.77	0.00	18.77	7.02
VANO 8	50.58	12.39	6.20	18.77	0.00	18.77	6.20
VANO 8	49.42	12.11	6.05	18.77	0.00	18.77	6.05
VANO 8	42.77	10.48	5.24	18.77	0.00	18.77	5.24
VANO 8	36.19	8.87	4.43	18.77	0.00	18.77	4.43
VANO 8	29.69	7.27	3.64	18.77	0.00	18.77	3.64
VANO 8	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 8	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 8	39.09	9.58	4.79	18.77	0.00	18.77	4.79
VANO 8	44.53	10.91	5.46	18.77	0.00	18.77	5.46
VANO 8	50.07	12.27	6.13	18.77	0.00	18.77	6.13
VANO 8	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 8	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 8	49.03	12.01	6.01	18.77	0.00	18.77	6.01
VANO 8	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 8	38.05	9.32	4.66	18.77	0.00	18.77	4.66
VANO 8	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 8	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 8	30.42	7.45	3.73	18.77	0.00	18.77	3.73
VANO 8	36.92	9.05	4.52	18.77	0.00	18.77	4.52
VANO 8	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 8	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 8	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 8	56.87	13.93	6.97	18.77	0.00	18.77	6.97
VANO 8	63.66	15.60	7.80	18.77	0.00	18.77	7.80
VANO 8	70.53	17.28	8.64	18.77	0.00	18.77	8.64
VANO 8	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 8	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 8	84.45	20.69	10.34	18.77	0.00	18.77	10.34
VANO 8	91.50	22.42	11.21	18.77	0.00	18.77	11.21
VANO 8	98.61	24.16	12.08	18.77	0.00	18.77	12.08
VANO 8	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 8	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 8	112.98	27.68	13.84	18.77	0.00	18.77	13.84
VANO 8	120.24	29.46	14.73	18.77	0.00	18.77	14.73
VANO 8	127.53	31.25	15.62	18.77	0.00	18.77	15.62

ARMADO DEFINITIV

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 8 PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	4	Variables
Nº CORDON	25	9	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE VOLADIZO EN ZONA EXTERIOR

CARACT. RASANTE

M est (S1)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf
VANO 9	0.00	1.00	2316.53	710.45	2078.11	1719.14	66.52	16.30	8.15	5.18	0.00
VANO 9	1.20	2.00	1801.53	683.29	2004.51	1634.80	51.73	12.67	6.34	5.18	0.00
VANO 9	2.40	3.00	1698.44	656.36	1931.63	1550.33	48.77	11.95	5.97	5.18	0.00
VANO 9	3.60	4.00	1605.64	629.66	1860.88	1465.72	46.11	11.30	5.65	5.18	0.00
VANO 9	4.80	5.00	1513.50	603.18	1792.05	1381.00	43.46	10.65	5.32	5.18	0.00
VANO 9	4.80	6.00	1513.50	603.18	1792.05	1381.00	43.46	10.65	5.32	5.18	0.00
VANO 9	6.00	7.00	1422.07	576.92	1725.15	1296.15	40.84	10.00	5.00	5.18	0.00
VANO 9	7.20	8.00	1331.41	550.89	1660.18	1211.18	38.23	9.37	4.68	5.18	0.00
VANO 9	8.40	9.00	1232.18	525.09	1597.13	1126.11	35.38	8.67	4.33	5.18	0.00
VANO 9	9.60	10.00	1130.68	499.51	1536.01	1040.92	32.47	7.95	3.98	5.18	0.00
VANO 9	9.60	11.00	1130.68	499.51	1536.01	1040.92	32.47	7.95	3.98	5.18	0.00
VANO 9	10.80	12.00	1030.10	474.16	1476.82	955.64	29.58	7.25	3.62	5.18	0.00
VANO 9	12.00	13.00	930.46	449.04	1419.55	870.26	26.72	6.55	3.27	5.18	0.00
VANO 9	13.20	14.00	831.83	424.14	1364.22	784.80	23.89	5.85	2.93	5.18	0.00
VANO 9	14.40	15.00	734.22	399.46	1310.80	699.25	21.08	5.17	2.58	5.18	0.00
VANO 9	14.40	16.00	717.28	399.46	1310.80	682.31	20.60	5.05	2.52	5.18	0.00
VANO 9	15.60	17.00	620.74	375.01	1259.32	596.69	17.82	4.37	2.18	5.18	0.00
VANO 9	16.80	18.00	525.30	350.79	1209.93	511.01	15.08	3.70	1.85	5.18	0.00
VANO 9	18.00	19.00	430.99	326.79	1165.35	425.27	12.38	3.03	1.52	5.18	0.00
VANO 9	19.20	20.00	489.77	177.07	1122.79	339.48	14.06	3.45	1.72	5.18	0.00
VANO 9	19.20	21.00	489.77	177.07	1122.79	339.48	14.06	3.45	1.72	5.18	0.00
VANO 9	20.40	22.00	567.43	166.70	1083.04	253.66	16.29	3.99	2.00	5.18	0.00
VANO 9	21.60	23.00	646.40	156.32	1049.31	167.81	18.56	4.55	2.27	5.18	0.00
VANO 9	22.80	24.00	726.69	145.95	1024.04	82.85	20.87	5.11	2.56	5.18	0.00
VANO 9	24.00	25.00	399.83	135.57	1050.63	4.40	11.48	2.81	1.41	5.18	0.00
VANO 9	24.00	26.00	399.83	135.57	1050.63	4.40	11.48	2.81	1.41	5.18	0.00
VANO 9	25.20	27.00	711.62	187.04	1087.87	90.08	20.43	5.01	2.50	5.18	0.00
VANO 9	26.40	28.00	631.31	164.70	1127.23	175.95	18.13	4.44	2.22	5.18	0.00
VANO 9	27.60	29.00	552.32	142.63	1168.73	261.80	15.86	3.89	1.94	5.18	0.00
VANO 9	28.80	30.00	474.65	120.83	1212.33	347.62	13.63	3.34	1.67	5.18	0.00
VANO 9	28.80	31.00	474.65	120.83	1212.33	347.62	13.63	3.34	1.67	5.18	0.00
VANO 9	30.00	32.00	441.60	111.38	1258.07	433.40	12.68	3.11	1.55	5.18	0.00
VANO 9	31.20	33.00	535.90	124.89	1305.83	519.14	15.39	3.77	1.89	5.18	0.00
VANO 9	32.40	34.00	631.32	143.44	1355.53	604.82	18.13	4.44	2.22	5.18	0.00
VANO 9	33.60	35.00	727.84	163.77	1407.11	690.44	20.90	5.12	2.56	5.18	0.00
VANO 9	33.60	36.00	727.84	163.77	1407.11	690.44	20.90	5.12	2.56	5.18	0.00
VANO 9	34.80	37.00	825.43	184.39	1460.74	775.98	23.70	5.81	2.90	5.18	0.00
VANO 9	36.00	38.00	924.05	205.23	1516.23	861.45	26.53	6.50	3.25	5.18	0.00
VANO 9	37.20	39.00	1023.67	226.30	1573.63	946.82	29.40	7.20	3.60	5.18	0.00
VANO 9	38.40	40.00	1124.25	247.59	1633.0	1032.11	32.28	7.91	3.95	5.18	0.00
VANO 9	38.40	41.00	1124.25	247.59	1633.0	1032.11	32.28	7.91	3.95	5.18	0.00
VANO 9	39.60	42.00	1225.73	269.50	1694.23	1117.29	35.20	8.62	4.31	5.18	0.00
VANO 9	40.80	43.00	1328.09	292.13	1757.40	1202.36	38.14	9.34	4.67	5.18	0.00
VANO 9	42.00	44.00	1431.26	314.99	1822.68	1287.33	41.10	10.07	5.03	5.18	0.00
VANO 9	43.20	45.00	1535.21	338.08	1889.64	1372.17	44.08	10.80	5.40	5.18	0.00
VANO 9	43.20	46.00	1535.21	338.08	1889.64	1372.17	44.08	10.80	5.40	5.18	0.00
VANO 9	44.40	47.00	1639.87	361.39	1958.66	1456.90	47.09	11.54	5.77	5.18	0.00
VANO 9	45.60	48.00	1745.20	384.93	2029.54	1541.49	50.11	12.28	6.14	5.18	0.00
VANO 9	46.80	49.00	1851.13	408.69	2102.38	1625.96	53.16	13.02	6.51	5.18	0.00
VANO 9	48.00	50.00	2306.13	432.68	2177.14	1710.30	67.94	16.65	8.32	5.18	0.00
VANO 10	0.00	1.00	2316.53	710.45	2116.28	1713.85	66.52	16.30	8.15	5.18	0.00
VANO 10	1.20	2.00	1801.53	683.29	2041.87	1629.51	51.73	12.67	6.34	5.18	0.00
VANO 10	2.40	3.00	1698.44	656.36	1969.25	1545.03	48.77	11.95	5.97	5.18	0.00
VANO 10	3.60	4.00	1605.64	629.66	1898.61	1460.43	46.11	11.30	5.65	5.18	0.00
VANO 10	4.80	5.00	1513.50	603.18	1829.85	1375.69	43.46	10.65	5.32	5.18	0.00
VANO 10	4.80	6.00	1513.50	603.18	1829.85	1375.69	43.46	10.65	5.32	5.18	0.00
VANO 10	6.00	7.00	1422.07	576.92	1763.05	1290.84	40.84	10.00	5.00	5.18	0.00
VANO 10	7.20	8.00	1331.41	550.89	1698.20	1205.87	38.23	9.37	4.68	5.18	0.00
VANO 10	8.40	9.00	1232.18	525.09	1635.24	1120.78	35.38	8.67	4.33	5.18	0.00
VANO 10	9.60	10.00	1130.68	499.51	1574.19	1035.59	32.47	7.95	3.98	5.18	0.00
VANO 10	9.60	11.00	1130.68	499.51	1574.19	1035.59	32.47	7.95	3.98	5.18	0.00
VANO 10	10.80	12.00	1030.10	474.16	1515.06	950.30	29.58	7.25	3.62	5.18	0.00
VANO 10	12.00	13.00	930.46	449.04	1457.85	864.92	26.72	6.55	3.27	5.18	0.00
VANO 10	13.20	14.00	831.83	424.14	1402.56	779.44	23.89	5.85	2.93	5.18	0.00
VANO 10	14.40	15.00	734.22	399.46	1349.19	693.89	21.08	5.17	2.58	5.18	0.00
VANO 10	14.40	16.00	717.28	399.46	1349.19	676.95	20.60	5.05	2.52	5.18	0.00
VANO 10	15.60	17.00	620.74	375.01	1297.71	591.32	17.82	4.37	2.18	5.18	0.00
VANO 10	16.80	18.00	525.30	350.79	1248.46	505.63	15.08	3.70	1.85	5.18	0.00
VANO 10	18.00	19.00	430.99	326.79	1203.80	419.89	12.38	3.03	1.52	5.18	0.00
VANO 10	19.20	20.00	489.77	177.07	1161.17	334.10	14.06	3.45	1.72	5.18	0.00
VANO 10	19.20	21.00	489.77	177.07	1161.17	334.10	14.06	3.45	1.72	5.18	0.00
VANO 10	20.40	22.00	567.43	166.70	1120.92	248.27	16.29	3.99	2.00	5.18	0.00
VANO 10	21.60	23.00	646.40	156.32	1085.17	162.41	18.56	4.55	2.27	5.18	0.00
VANO 10	22.80	24.00	726.69	145.95	1056.79	77.40	20.87	5.11	2.56	5.18	0.00
VANO 10	24.00	25.00	399.83	135.57	1081.32	9.42	11.48	2.81	1.41	5.18	0.00
VANO 10	24.00	26.00	399.83	135.57	1081.32	9.42	11.48	2.81	1.41	5.18	0.00
VANO 10	25.20	27.00	711.62	187.04	1118.31	95.30	20.43	5.01	2.50	5.18	0.00
VANO 10	26.40	28.00	631.31	164.70	1157.44	181.18	18.13	4.44	2.22	5.18	0.00
VANO 10	27.60	29.00	552.32	142.63	1198.68	267.03	15.86	3.89	1.94	5.18	0.00
VANO 10	28.80	30.00	474.65	120.83	1242.05	352.86	13.63	3.34	1.67	5.18	0.00
VANO 10	28.80	31.00	474.65	120.83	1242.05	352.86	13.63	3.34	1.67	5.18	0.00
VANO 10	30.00	32.00	441.60	111.38	1287.55	438.65	12.68	3.11	1.55	5.18	0.00
VANO 10	31.20	33.00	535.90	124.89	1335.06	524.39	15.39	3.77	1.89	5.18	0.00
VANO 10	32.40	34.00	631.32	143.44	1384.50	610.08	18.13	4.44	2.22	5.18	0.00
VANO 10	33.60	35.00	727.84	163.77	1435.85	695.70	20.90	5.12	2.56	5.18	0.00
VANO 10	33.60	36.00	727.84	163.77	1435.85	695.70	20.90	5.12	2.56	5.18	0.00
VANO 10	34.80	37.00	825.43	184.39	1489.12	781.25	23.70	5.81	2.90	5.18	0.00
VANO 10	36.00	38.00	924.05	205.23	1544.31	866.72	26.53	6.50	3.25	5.18	0.00
VANO 10	37.20	39.00	1023.67	226.30	1601.42	952.11	29.40	7.20	3.60	5.18	0.00
VANO 10	38.40	40.00	1124.25	247.59	1660.45	1037.39	32.28	7.91	3.95	5.18	0.00
VANO 10	38.40	41.00	1124.25	247.59	1660.45	1037.39	32.28	7.91	3.95	5.18	0.00
VANO 10	39.60	42.00	1225.73	269.50	1721.40	1122.58	35.20	8.62	4.31	5.18	0.00
VANO 10	40.80	43.00	1328.09	292.13	1784.26	1207.66	38.14	9.34	4.67	5.18	0.00
VANO 10	42.00	44.00	1431.26	314.99	1849.04	1292.63	41.10	10.07	5.03	5.18	0.00
VANO 10	43.20	45.00	1535.21	338.08	1915.75	1377.48	44.08	10.80	5.40	5.18	0.00
VANO 10	43.20	46.00	1535.21	338.08	1915.75	1377.48	44.08	10.80	5.40	5.18	0.00
VANO 10	44.40	47.00	1639.87	361.39	1984.37	1462.20	47.09	11.54	5.77	5.18	0.00
VANO 10	45.60	48.00	1745.20	384.93	2054.91	1546.80	50.11	12.28	6.14	5.18	0.00
VANO 10	46.80	49.00	1851.13	408.69	2127.37	1631.28	53.16	13.02	6.51	5.18	0.00

ARMADO DEFINITIV

As ext	As int
8.15	8.15
6.34	6.34
5.97	5.97
5.65	5.65
5.32	5.32
5.32	5.32
5.18	5.00
5.18	4.68
5.18	4.33
5.18	3.98
5.18	3.98
5.18	3.62
5.18	3.27
5.18	2.93
5.18	2.58
5.18	2.52
5.18	2.18
5.18	1.85
5.18	1.52
5.18	1.72
5.18	1.72
5.18	2.00
5.18	2.27
5.18	2.56
5.18	1.41
5.18	1.41
5.18	2.50
5.18	2.22
5.18	1.94
5.18	1.67
5.18	1.67
5.18	1.55
5.18	1.89
5.18	2.22
5.18	2.56
5.18	2.56
5.18	2.90
5.18	3.25
5.18	3.60
5.18	3.95
5.18	3.95
5.18	4.31
5.18	4.67
5.18	5.03
5.40	5.40
5.40	5.40
5.77	5.77
6.14	6.14
6.51	6.51
8.32	8.32
8.15	8.15
6.34	6.34
5.97	5.97
5.65	5.65
5.32	5.32
5.32	5.32
5.18	5.00
5.18	4.68
5.18	4.33
5.18	3.98
5.18	3.98
5.18	3.62
5.18	3.27
5.18	2.93
5.18	2.58
5.18	2.52
5.18	2.18
5.18	1.85
5.18	1.52
5.18	1.72
5.18	1.72
5.18	2.00
5.18	2.27
5.18	2.56
5.18	1.41
5.18	1.41
5.18	2.50
5.18	2.22
5.18	1.94
5.18	1.67
5.18	1.67
5.18	1.55
5.18	1.89
5.18	2.22
5.18	2.56
5.18	2.56
5.18	2.90
5.18	3.25
5.18	3.60
5.18	3.95
5.18	3.95
5.18	4.31
5.18	4.67
5.18	5.03
5.40	5.40
5.40	5.40
5.77	5.77
6.14	6.14
6.51	6.51

ARMADO DE VOLADIZO JUNTO AL ALMA

CARACT. RASANTE

M est (S2)=	1.38
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.069
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf
159.60	39.10	19.55	18.77	0.00
124.12	30.41	15.20	18.77	0.00
117.01	28.67	14.33	18.77	0.00
110.62	27.10	13.55	18.77	0.00
104.27	25.55	12.77	18.77	0.00
104.27	25.55	12.77	18.77	0.00
97.97	24.00	12.00	18.77	0.00
91.73	22.47	11.24	18.77	0.00
84.89	20.80	10.40	18.77	0.00
77.90	19.09	9.54	18.77	0.00
77.90	19.09	9.54	18.77	0.00
70.97	17.39	8.69	18.77	0.00
64.10	15.71	7.85	18.77	0.00
57.31	14.04	7.02	18.77	0.00
50.58	12.39	6.20	18.77	0.00
49.42	12.11	6.05	18.77	0.00
42.77	10.48	5.24	18.77	0.00
36.19	8.87	4.43	18.77	0.00
29.69	7.27	3.64	18.77	0.00
33.74	8.27	4.13	18.77	0.00
33.74	8.27	4.13	18.77	0.00
39.09	9.58	4.79	18.77	0.00
44.53	10.91	5.46	18.77	0.00
50.07	12.27	6.13	18.77	0.00
27.55	6.75	3.37	18.77	0.00
27.55	6.75	3.37	18.77	0.00
49.03	12.01	6.01	18.77	0.00
43.49	10.66	5.33	18.77	0.00
38.05	9.32	4.66	18.77	0.00
32.70	8.01	4.01	18.77	0.00
32.70	8.01	4.01	18.77	0.00
30.42	7.45	3.73	18.77	0.00
36.92	9.05	4.52	18.77	0.00
43.49	10.66	5.33	18.77	0.00
50.14	12.29	6.14	18.77	0.00
50.14	12.29	6.14	18.77	0.00
56.87	13.93	6.97	18.77	0.00
63.66	15.60	7.80	18.77	0.00
70.53	17.28	8.64	18.77	0.00
77.46	18.98	9.49	18.77	0.00
77.46	18.98	9.49	18.77	0.00
84.45	20.69	10.34	18.77	0.00
91.50	22.42	11.21	18.77	0.00
98.61	24.16	12.08	18.77	0.00
105.77	25.91	12.96	18.77	0.00
105.77	25.91	12.96	18.77	0.00
112.98	27.68	13.84	18.77	0.00
120.24	29.46	14.73	18.77	0.00
127.53	31.25	15.62	18.77	0.00
163.02	39.94	19.97	18.77	0.00
159.60	39.10	19.55	18.77	0.00
124.12	30.41	15.20	18.77	0.00
117.01	28.67	14.33	18.77	0.00
110.62	27.10	13.55	18.77	0.00
104.27	25.55	12.77	18.77	0.00
104.27	25.55	12.77	18.77	0.00
97.97	24.00	12.00	18.77	0.00
91.73	22.47	11.24	18.77	0.00
84.89	20.80	10.40	18.77	0.00
77.90	19.09	9.54	18.77	0.00
77.90	19.09	9.54	18.77	0.00
70.97	17.39	8.69	18.77	0.00
64.10	15.71	7.85	18.77	0.00
57.31	14.04	7.02	18.77	0.00
50.58	12.39	6.20	18.77	0.00
49.42	12.11	6.05	18.77	0.00
42.77	10.48	5.24	18.77	0.00
36.19	8.87	4.43	18.77	0.00
29.69	7.27	3.64	18.77	0.00
33.74	8.27	4.13	18.77	0.00
33.74	8.27	4.13	18.77	0.00
39.09	9.58	4.79	18.77	0.00
44.53	10.91	5.46	18.77	0.00
50.07	12.27	6.13	18.77	0.00
27.55	6.75	3.37	18.77	0.00
27.55	6.75	3.37	18.77	0.00
49.03	12.01	6.01	18.77	0.00
43.49	10.66	5.33	18.77	0.00
38.05	9.32	4.66	18.77	0.00
32.70	8.01	4.01	18.77	0.00
32.70	8.01	4.01	18.77	0.00
30.42	7.45	3.73	18.77	0.00
36.92	9.05	4.52	18.77	0.00
43.49	10.66	5.33	18.77	0.00
50.14	12.29	6.14	18.77	0.00
50.14	12.29	6.14	18.77	0.00
56.87	13.93	6.97	18.77	0.00
63.66	15.60	7.80	18.77	0.00
70.53	17.28	8.64	18.77	0.00
77.46	18.98	9.49	18.77	0.00
77.46	18.98	9.49	18.77	0.00
84.45	20.69	10.34	18.77	0.00
91.50	22.42	11.21	18.77	0.00
98.61	24.16	12.08	18.77	0.00
105.77	25.91	12.96	18.77	0.00
105.77	25.91	12.96	18.77	0.00
112.98	27.68	13.84	18.77	0.00
120.24	29.46	14.73	18.77	0.00
127.53	31.25	15.62	18.77	0.00

ARMADO DEFINITIV

As ext	As int
19.55	19.55
18.77	15.20
18.77	14.33
18.77	13.55
18.77	12.77
18.77	12.77
18.77	12.00
18.77	11.24
18.77	10.40
18.77	9.54
18.77	9.54
18.77	8.69
18.77	7.85
18.77	7.02
18.77	6.20
18.77	6.05
18.77	5.24
18.77	4.43
18.77	3.64
18.77	4.13
18.77	4.13
18.77	4.79
18.77	5.46
18.77	6.13
18.77	3.37
18.77	3.37
18.77	6.01
18.77	5.33
18.77	4.66
18.77	4.01
18.77	4.01
18.77	3.73
18.77	4.52
18.77	5.33
18.77	6.14
18.77	6.14
18.77	6.97
18.77	7.80
18.77	8.64
18.77	9.49
18.77	9.49
18.77	10.34
18.77	11.21
18.77	12.08
18.77	12.96
18.77	12.96
18.77	13.84
18.77	14.73
18.77	15.62
19.97	19.97
19.55	19.55
18.77	15.20
18.77	14.33
18.77	13.55
18.77	12.77
18.77	12.77
18.77	12.00
18.77	11.24
18.77	10.40
18.77	9.54
18.77	9.54
18.77	8.69
18.77	7.85
18.77	7.02
18.77	6.20
18.77	6.05
18.77	5.24
18.77	4.43
18.77	3.64
18.77	4.13
18.77	4.13
18.77	4.79
18.77	5.46
18.77	6.13
18.77	3.37
18.77	3.37
18.77	6.01
18.77	5.33
18.77	4.66
18.77	4.01
18.77	4.01
18.77	3.73
18.77	4.52
18.77	5.33
18.77	6.14
18.77	6.14
18.77	6.97
18.77	7.80
18.77	8.64
18.77	9.49
18.77	9.49
18.77	10.34
18.77	11.21
18.77	12.08
18.77	12.96
18.77	12.96
18.77	13.84
18.77	14.73
18.77	15.62

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	215	28.5
% TESADO	0.8	075	75%
% PERDIDA	0.16	12	20%
COEF. SEG	1	1	1.0

ARMADO DE VOLADIZO EN ZONA EXTERIOR

CARACT. RASANTE

M est (S1)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con
VANO 11	0.00	1.00	2316.53	710.45	2046.18	1722.87
VANO 11	1.20	2.00	1801.53	683.29	1971.37	1638.53
VANO 11	2.40	3.00	1698.44	656.36	1899.08	1554.05
VANO 11	3.60	4.00	1605.64	629.66	1828.12	1469.45
VANO 11	4.80	5.00	1513.50	603.18	1759.39	1384.72
VANO 11	4.80	6.00	1513.50	603.18	1759.39	1384.72
VANO 11	6.00	7.00	1422.07	576.92	1692.18	1299.87
VANO 11	7.20	8.00	1331.41	550.89	1627.49	1214.90
VANO 11	8.40	9.00	1232.18	525.09	1565.13	1129.81
VANO 11	9.60	10.00	1130.68	499.51	1506.12	1044.63
VANO 11	9.60	11.00	1130.68	499.51	1506.12	1044.63
VANO 11	10.80	12.00	1030.10	474.16	1450.37	959.34
VANO 11	12.00	13.00	930.46	449.04	1396.83	873.95
VANO 11	13.20	14.00	831.83	424.14	1343.57	788.48
VANO 11	14.40	15.00	734.22	399.46	1293.66	702.93
VANO 11	14.40	16.00	717.28	399.46	1293.66	685.99
VANO 11	15.60	17.00	620.74	375.01	1245.11	600.36
VANO 11	16.80	18.00	525.30	350.79	1200.04	514.67
VANO 11	18.00	19.00	430.99	326.79	1159.07	428.93
VANO 11	19.20	20.00	489.77	177.07	1124.31	343.13
VANO 11	19.20	21.00	489.77	177.07	1124.31	343.13
VANO 11	20.40	22.00	567.43	166.70	1091.28	257.31
VANO 11	21.60	23.00	646.40	156.32	1072.19	173.29
VANO 11	22.80	24.00	726.69	145.95	1088.13	86.52
VANO 11	24.00	25.00	399.83	135.57	1119.14	1.70
VANO 11	24.00	26.00	399.83	135.57	1119.14	1.70
VANO 11	25.20	27.00	711.62	187.04	1156.43	86.22
VANO 11	26.40	28.00	631.31	164.70	1196.45	172.09
VANO 11	27.60	29.00	552.32	142.63	1237.41	257.95
VANO 11	28.80	30.00	474.65	120.83	1280.10	343.78
VANO 11	28.80	31.00	474.65	120.83	1280.10	343.78
VANO 11	30.00	32.00	441.60	111.38	1326.51	429.57
VANO 11	31.20	33.00	535.90	124.89	1374.76	515.32
VANO 11	32.40	34.00	631.32	143.44	1423.13	601.01
VANO 11	33.60	35.00	727.84	163.77	1475.03	686.63
VANO 11	33.60	36.00	727.84	163.77	1475.03	686.63
VANO 11	34.80	37.00	825.43	184.39	1528.65	772.18
VANO 11	36.00	38.00	924.05	205.23	1584.00	857.66
VANO 11	37.20	39.00	1023.67	226.30	1641.17	943.04
VANO 11	38.40	40.00	1124.25	247.59	1700.17	1028.33
VANO 11	38.40	41.00	1124.25	247.59	1700.17	1028.33
VANO 11	39.60	42.00	1225.73	269.50	1761.00	1113.52
VANO 11	40.80	43.00	1328.09	292.13	1824.64	1198.60
VANO 11	42.00	44.00	1431.26	314.99	1889.62	1283.57
VANO 11	43.20	45.00	1535.21	338.08	1956.52	1368.43
VANO 11	43.20	46.00	1535.21	338.08	1956.52	1368.43
VANO 11	44.40	47.00	1639.87	361.39	2025.34	1453.16
VANO 11	45.60	48.00	1745.20	384.93	2096.09	1537.76
VANO 11	46.80	49.00	1851.13	408.69	2168.77	1622.24
VANO 11	48.00	50.00	2306.13	432.68	2243.17	1706.58
VANO 12	0.00	1.00	2316.53	710.45	2093.30	1716.19
VANO 12	1.20	2.00	1801.53	683.29	2018.26	1631.85
VANO 12	2.40	3.00	1698.44	656.36	1945.16	1547.38
VANO 12	3.60	4.00	1605.64	629.66	1874.00	1462.78
VANO 12	4.80	5.00	1513.50	603.18	1804.78	1378.05
VANO 12	4.80	6.00	1513.50	603.18	1804.78	1378.05
VANO 12	6.00	7.00	1422.07	576.92	1737.50	1293.20
VANO 12	7.20	8.00	1331.41	550.89	1672.13	1208.23
VANO 12	8.40	9.00	1232.18	525.09	1608.77	1123.15
VANO 12	9.60	10.00	1130.68	499.51	1547.31	1037.96
VANO 12	9.60	11.00	1130.68	499.51	1547.31	1037.96
VANO 12	10.80	12.00	1030.10	474.16	1487.83	952.67
VANO 12	12.00	13.00	930.46	449.04	1430.22	867.29
VANO 12	13.20	14.00	831.83	424.14	1374.53	781.81
VANO 12	14.40	15.00	734.22	399.46	1320.93	696.26
VANO 12	14.40	16.00	717.28	399.46	1320.93	679.32
VANO 12	15.60	17.00	620.74	375.01	1269.15	593.70
VANO 12	16.80	18.00	525.30	350.79	1219.31	508.01
VANO 12	18.00	19.00	430.99	326.79	1171.47	422.27
VANO 12	19.20	20.00	489.77	177.07	1125.64	336.48
VANO 12	19.20	21.00	489.77	177.07	1125.64	336.48
VANO 12	20.40	22.00	567.43	166.70	1081.97	250.65
VANO 12	21.60	23.00	646.40	156.32	1042.93	164.79
VANO 12	22.80	24.00	726.69	145.95	1007.23	78.92
VANO 12	24.00	25.00	399.83	135.57	1006.77	6.97
VANO 12	24.00	26.00	399.83	135.57	1006.77	6.97
VANO 12	25.20	27.00	711.62	187.04	1043.81	92.85
VANO 12	26.40	28.00	631.31	164.70	1082.99	178.73
VANO 12	27.60	29.00	552.32	142.63	1124.33	264.58
VANO 12	28.80	30.00	474.65	120.83	1167.81	350.41
VANO 12	28.80	31.00	474.65	120.83	1167.81	350.41
VANO 12	30.00	32.00	441.60	111.38	1213.41	436.20
VANO 12	31.20	33.00	535.90	124.89	1261.10	521.94
VANO 12	32.40	34.00	631.32	143.44	1310.72	607.63
VANO 12	33.60	35.00	727.84	163.77	1362.27	693.25
VANO 12	33.60	36.00	727.84	163.77	1362.27	693.25
VANO 12	34.80	37.00	825.43	184.39	1415.77	778.80
VANO 12	36.00	38.00	924.05	205.23	1471.2	864.27
VANO 12	37.20	39.00	1023.67	226.30	1528.56	949.65
VANO 12	38.40	40.00	1124.25	247.59	1587.90	1034.94
VANO 12	38.40	41.00	1124.25	247.59	1587.90	1034.94
VANO 12	39.60	42.00	1225.73	269.50	1649.16	1120.12
VANO 12	40.80	43.00	1328.09	292.13	1712.33	1205.20
VANO 12	42.00	44.00	1431.26	314.99	1777.51	1290.17
VANO 12	43.20	45.00	1535.21	338.08	1844.58	1375.02
VANO 12	43.20	46.00	1535.21	338.08	1844.58	1375.02
VANO 12	44.40	47.00	1639.87	361.39	1913.61	1459.75
VANO 12	45.60	48.00	1745.20	384.93	1984.58	1544.35
VANO 12	46.80	49.00	1851.13	408.69	2057.48	1628.82

	Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	ARMADO DEFINITIV As ext	As int
VANO 11	66.52	16.30	8.15	5.18	0.00	8.15	8.15
VANO 11	51.73	12.67	6.34	5.18	0.00	6.34	6.34
VANO 11	48.77	11.95	5.97	5.18	0.00	5.97	5.97
VANO 11	46.11	11.30	5.65	5.18	0.00	5.65	5.65
VANO 11	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 11	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 11	40.84	10.00	5.00	5.18	0.00	5.18	5.00
VANO 11	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 11	35.38	8.67	4.33	5.18	0.00	5.18	4.33
VANO 11	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 11	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 11	29.58	7.25	3.62	5.18	0.00	5.18	3.62
VANO 11	26.72	6.55	3.27	5.18	0.00	5.18	3.27
VANO 11	23.89	5.85	2.93	5.18	0.00	5.18	2.93
VANO 11	21.08	5.17	2.58	5.18	0.00	5.18	2.58
VANO 11	20.60	5.05	2.52	5.18	0.00	5.18	2.52
VANO 11	17.82	4.37	2.18	5.18	0.00	5.18	2.18
VANO 11	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 11	12.38	3.03	1.52	5.18	0.00	5.18	1.52
VANO 11	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 11	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 11	16.29	3.99	2.00	5.18	0.00	5.18	2.00
VANO 11	18.56	4.55	2.27	5.18	0.00	5.18	2.27
VANO 11	20.87	5.11	2.56	5.18	0.00	5.18	2.56
VANO 11	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 11	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 11	20.43	5.01	2.50	5.18	0.00	5.18	2.50
VANO 11	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 11	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 11	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 11	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 11	12.68	3.11	1.55	5.18	0.00	5.18	1.55
VANO 11	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 11	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 11	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 11	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 11	23.70	5.81	2.90	5.18	0.00	5.18	2.90
VANO 11	26.53	6.50	3.25	5.18	0.00	5.18	3.25
VANO 11	29.40	7.20	3.60	5.18	0.00	5.18	3.60
VANO 11	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 11	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 11	35.20	8.62	4.31	5.18	0.00	5.18	4.31
VANO 11	38.14	9.34	4.67	5.18	0.00	5.18	4.67
VANO 11	41.10	10.07	5.03	5.18	0.00	5.18	5.03
VANO 11	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 11	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 11	47.09	11.54	5.77	5.18	0.00	5.77	5.77
VANO 11	50.11	12.28	6.14	5.18	0.00	6.14	6.14
VANO 11	53.16	13.02	6.51	5.18	0.00	6.51	6.51
VANO 11	57.94	16.65	8.32	5.18	0.00	8.32	8.32
VANO 12	66.52	16.30	8.15	5.18	0.00	8.15	8.15
VANO 12	51.73	12.67	6.34	5.18	0.00	6.34	6.34
VANO 12	48.77	11.95	5.97	5.18	0.00	5.97	5.97
VANO 12	46.11	11.30	5.65	5.18	0.00	5.65	5.65
VANO 12	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 12	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 12	40.84	10.00	5.00	5.18	0.00	5.18	5.00
VANO 12	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 12	35.38	8.67	4.33	5.18	0.00	5.18	4.33
VANO 12	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 12	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 12	29.58	7.25	3.62	5.18	0.00	5.18	3.62
VANO 12	26.72	6.55	3.27	5.18	0.00	5.18	3.27
VANO 12	23.89	5.85	2.93	5.18	0.00	5.18	2.93
VANO 12	21.08	5.17	2.58	5.18	0.00	5.18	2.58
VANO 12	20.60	5.05	2.52	5.18	0.00	5.18	2.52
VANO 12	17.82	4.37	2.18	5.18	0.00	5.18	2.18
VANO 12	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 12	12.38	3.03	1.52	5.18	0.00	5.18	1.52
VANO 12	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 12	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 12	16.29	3.99	2.00	5.18	0.00	5.18	2.00
VANO 12	18.56	4.55	2.27	5.18	0.00	5.18	2.27
VANO 12	20.87	5.11	2.56	5.18	0.00	5.18	2.56
VANO 12	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 12	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 12	20.43	5.01	2.50	5.18	0.00	5.18	2.50
VANO 12	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 12	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 12	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 12	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 12	12.68	3.11	1.55	5.18	0.00	5.18	1.55
VANO 12	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 12	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 12	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 12	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 12	23.70	5.81	2.90	5.18	0.00	5.18	2.90
VANO 12	26.53	6.50	3.25	5.18	0.00	5.18	3.25
VANO 12	29.40	7.20	3.60	5.18	0.00	5.18	3.60
VANO 12	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 12	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 12	35.20	8.62	4.31	5.18	0.00	5.18	4.31
VANO 12	38.14	9.34	4.67	5.18	0.00	5.18	4.67
VANO 12	41.10	10.07	5.03	5.18	0.00	5.18	5.03
VANO 12	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 12	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 12	47.09	11.54	5.77	5.18	0.00	5.77	5.77
VANO 12	50.11	12.28	6.14	5.18	0.00	6.14	6.14
VANO 12	53.16	13.02	6.51	5.18	0.00	6.51	6.51

ARMADO DE VOLADIZO JUNTO AL ALMA

CARACT. RASANTE

M est (S2)=	1.38
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.069
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

	Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	ARMADO DEFINITIV As ext	As int
VANO 11	159.60	39.10	19.55	18.77	0.00	19.55	19.55
VANO 11	124.12	30.41	15.20	18.77	0.00	18.77	15.20
VANO 11	117.01	28.67	14.33	18.77	0.00	18.77	14.33
VANO 11	110.62	27.10	13.55	18.77	0.00	18.77	13.55
VANO 11	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 11	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 11	97.97	24.00	12.00	18.77	0.00	18.77	12.00
VANO 11	91.73	22.47	11.24	18.77	0.00	18.77	11.24
VANO 11	84.89	20.80	10.40	18.77	0.00	18.77	10.40
VANO 11	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 11	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 11	70.97	17.39	8.69	18.77	0.00	18.77	8.69
VANO 11	64.10	15.71	7.85	18.77	0.00	18.77	7.85
VANO 11	57.31	14.04	7.02	18.77	0.00	18.77	7.02
VANO 11	50.58	12.39	6.20	18.77	0.00	18.77	6.20
VANO 11	49.42	12.11	6.05	18.77	0.00	18.77	6.05
VANO 11	42.77	10.48	5.24	18.77	0.00	18.77	5.24
VANO 11	36.19	8.87	4.43	18.77	0.00	18.77	4.43
VANO 11	29.69	7.27	3.64	18.77	0.00	18.77	3.64
VANO 11	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 11	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 11	39.09	9.58	4.79	18.77	0.00	18.77	4.79
VANO 11	44.53	10.91	5.46	18.77	0.00	18.77	5.46
VANO 11	50.07	12.27	6.13	18.77	0.00	18.77	6.13
VANO 11	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 11	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 11	49.03	12.01	6.01	18.77	0.00	18.77	6.01
VANO 11	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 11	38.05	9.32	4.66	18.77	0.00	18.77	4.66
VANO 11	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 11	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 11	30.42	7.45	3.73	18.77	0.00	18.77	3.73
VANO 11	36.92	9.05	4.52	18.77	0.00	18.77	4.52
VANO 11	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 11	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 11	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 11	56.87	13.93	6.97	18.77	0.00	18.77	6.97
VANO 11	63.66	15.60	7.80	18.77	0.00	18.77	7.80
VANO 11	70.53	17.28	8.64	18.77	0.00	18.77	8.64
VANO 11	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 11	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 11	84.45	20.69	10.34	18.77	0.00	18.77	10.34
VANO 11	91.50	22.42	11.21	18.77	0.00	18.77	11.21
VANO 11	98.61	24.16	12.08	18.77	0.00	18.77	12.08
VANO 11	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 11	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 11	112.98	27.68	13.84	18.77	0.00	18.77	13.84
VANO 11	120.24	29.46	14.73	18.77	0.00	18.77	14.73
VANO 11	127.53	31.25	15.62	18.77	0.00	18.77	15.62
VANO 12	163.02	39.94	19.97	18.77	0.00	19.97	19.97
VANO 12	159.60	39.10	19.55	18.77	0.00	19.55	19.55
VANO 12	124.12	30.41	15.20	18.77	0.00	18.77	15.20
VANO 12	117.01	28.67	14.33	18.77	0.00	18.77	14.33
VANO 12	110.62	27.10	13.55	18.77	0.00	18.77	13.55
VANO 12	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 12	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 12	97.97	24.00	12.00	18.77	0.00	18.77	12.00
VANO 12	91.73	22.47	11.24	18.77	0.00	18.77	11.24
VANO 12	84.89	20.80	10.40	18.77	0.00	18.77	10.40
VANO 12	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 12	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 12	70.97	17.39	8.69	18.77	0.00	18.77	8.69
VANO 12	64.10	15.71	7.85	18.77	0.00	18.77	7.85
VANO 12	57.31	14.04	7.02	18.77	0.00	18.77	7.02
VANO 12	50.58	12.39	6.20	18.77	0.00	18.77	6.20
VANO 12	49.42	12.11	6.05	18.77	0.00	18.77	6.05
VANO 12	42.77	10.48	5.24	18.77	0.00	18.77	5.24
VANO 12	36.19	8.87	4.43	18.77	0.00	18.77	4.43
VANO 12	29.69	7.27	3.64	18.77	0.00	18.77	3.64
VANO 12	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 12	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 12	39.09	9.58	4.79	18.77	0.00	18.77	4.79
VANO 12	44.53	10.91	5.46	18.77	0.00	18.77	5.46
VANO 12	50.07	12.27	6.13	18.77	0.00	18.77	6.13
VANO 12	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 12	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 12	49.03	12.01	6.01	18.77	0.00	18.77	6.01
VANO 12	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 12	38.05	9.32	4.66	18.77	0.00	18.77	4.66
VANO 12	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 12	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 12	30.42	7.45	3.73	18.77	0.00	18.77	3.73
VANO 12	36.92	9.05	4.52	18.77	0.00	18.77	4.52
VANO 12	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 12	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 12	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 12	56.87	13.93	6.97	18.77	0.00	18.77	6.97
VANO 12	63.66	15.60	7.80	18.77	0.00	18.77	7.80
VANO 12	70.53	17.28	8.64	18.77	0.00	18.77	8.64
VANO 12	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 12	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 12	84.45	20.69	10.34	18.77	0.00	18.77	10.34
VANO 12	91.50	22.42	11.21	18.77	0.00	18.77	11.21
VANO 12	98.61	24.16	12.08	18.77	0.00	18.77	12.08
VANO 12	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 12	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 12	112.98	27.68	13.84	18.77	0.00	18.77	13.84
VANO 12	120.24	29.46	14.73	18.77	0.00	18.77	14.73
VANO 12	127.53	31.25	15.62	18.77	0.00	18.77	15.62

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.18	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE VOLADIZO EN ZONA EXTERIOR

CARACT. RASANTE

M est (S1)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
colg tetha =	1
K rasant =	0.028
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO — **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Hipótesis max cortante Td con	Hipótesi max torsor Td max	Hipótesi max torsor Vd con	Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	FLEXIÓN TRANS As int-inf	As ext	As int
VANO 13	0.00	1.00	2508.00	461.26	2734.92	1269.42							
VANO 13	1.20	2.00	2316.53	710.45	2174.48	1715.93	66.52	16.30	8.15	5.18	0.00	8.15	8.15
VANO 13	2.40	3.00	1801.53	683.29	2099.35	1631.58	51.73	12.67	6.34	5.18	0.00	6.34	6.34
VANO 13	3.60	4.00	1698.44	656.36	2027.14	1547.10	48.77	11.95	5.97	5.18	0.00	5.97	5.97
VANO 13	4.80	5.00	1605.64	629.66	1956.37	1462.50	46.11	11.30	5.65	5.18	0.00	5.65	5.65
VANO 13	4.80	6.00	1513.50	603.18	1887.51	1377.76	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 13	6.00	7.00	1422.07	576.92	1820.59	1292.91	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 13	7.20	8.00	1331.41	550.89	1755.59	1207.93	40.84	10.00	5.00	5.18	0.00	5.18	5.00
VANO 13	8.40	9.00	1232.18	525.09	1692.52	1122.85	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 13	9.60	10.00	1130.68	499.51	1631.37	1037.65	35.38	8.67	4.33	5.18	0.00	5.18	4.33
VANO 13	9.60	11.00	1130.68	499.51	1631.37	1037.65	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 13	10.80	12.00	1030.10	474.16	1572.15	952.36	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 13	12.00	13.00	930.46	449.04	1514.35	866.97	29.58	7.25	3.62	5.18	0.00	5.18	3.62
VANO 13	13.20	14.00	831.83	424.14	1459.19	781.49	26.72	6.55	3.27	5.18	0.00	5.18	3.27
VANO 13	14.40	15.00	734.22	399.46	1406.74	695.94	23.89	5.85	2.93	5.18	0.00	5.18	2.93
VANO 13	14.40	16.00	717.28	399.46	1406.74	678.99	21.08	5.17	2.58	5.18	0.00	5.18	2.58
VANO 13	15.60	17.00	620.74	375.01	1354.63	593.36	20.60	5.05	2.52	5.18	0.00	5.18	2.52
VANO 13	16.80	18.00	525.30	350.79	1304.34	507.67	17.82	4.37	2.18	5.18	0.00	5.18	2.18
VANO 13	18.00	19.00	430.99	326.79	1257.27	421.92	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 13	19.20	20.00	489.77	177.07	1211.34	336.13	12.38	3.03	1.52	5.18	0.00	5.18	1.52
VANO 13	19.20	21.00	489.77	177.07	1211.34	336.13	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 13	20.40	22.00	567.43	166.70	1168.13	250.29	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 13	21.60	23.00	646.40	156.32	1126.67	164.43	16.29	3.99	2.00	5.18	0.00	5.18	2.00
VANO 13	22.80	24.00	726.69	145.95	1087.53	78.55	18.56	4.55	2.27	5.18	0.00	5.18	2.27
VANO 13	24.00	25.00	399.83	135.57	1050.13	7.36	20.87	5.11	2.56	5.18	0.00	5.18	2.56
VANO 13	24.00	26.00	399.83	135.57	1050.13	7.36	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 13	25.20	27.00	711.62	187.04	1053.30	93.23	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 13	26.40	28.00	631.31	164.70	1090.14	179.11	20.43	5.01	2.50	5.18	0.00	5.18	2.50
VANO 13	27.60	29.00	552.32	142.63	1132.74	264.97	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 13	28.80	30.00	474.65	120.83	1175.17	350.80	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 13	28.80	31.00	474.65	120.83	1175.17	350.80	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 13	30.00	32.00	441.60	111.38	1220.14	436.60	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 13	31.20	33.00	535.90	124.89	1268.13	522.35	12.68	3.11	1.55	5.18	0.00	5.18	1.55
VANO 13	32.40	34.00	631.32	143.44	1317.86	608.04	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 13	33.60	35.00	727.84	163.77	1369.20	693.67	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 13	33.60	36.00	727.84	163.77	1369.20	693.67	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 13	34.80	37.00	825.43	184.39	1422.68	779.22	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 13	36.00	38.00	924.05	205.23	1477.68	864.70	23.70	5.81	2.90	5.18	0.00	5.18	2.90
VANO 13	37.20	39.00	1023.67	226.30	1534.11	950.09	26.53	6.50	3.25	5.18	0.00	5.18	3.25
VANO 13	38.40	40.00	1124.25	247.59	1593.16	1035.38	29.40	7.20	3.60	5.18	0.00	5.18	3.60
VANO 13	38.40	41.00	1124.25	247.59	1593.16	1035.38	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 13	39.60	42.00	1225.73	269.50	1654.14	1120.57	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 13	40.80	43.00	1328.09	292.13	1717.15	1205.65	35.20	8.62	4.31	5.18	0.00	5.18	4.31
VANO 13	42.00	44.00	1431.26	314.99	1782.18	1290.62	38.14	9.34	4.67	5.18	0.00	5.18	4.67
VANO 13	43.20	45.00	1535.21	338.08	1849.24	1375.47	41.10	10.07	5.03	5.18	0.00	5.18	5.03
VANO 13	43.20	46.00	1535.21	338.08	1849.24	1375.47	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 13	44.40	47.00	1639.87	361.39	1918.03	1460.21	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 13	45.60	48.00	1745.20	384.93	1988.64	1544.81	47.09	11.54	5.77	5.18	0.00	5.77	5.77
VANO 13	46.80	49.00	1851.13	408.69	2061.18	1629.29	50.11	12.28	6.14	5.18	0.00	6.14	6.14
VANO 13	48.00	50.00	2366.13	432.60	2135.65	1712.63	53.16	13.02	6.51	5.18	0.00	6.51	6.51
VANO 14	0.00	1.00	2316.53	710.45	2235.71	1721.92	67.91	16.65	8.32	5.18	0.00	8.32	8.32
VANO 14	1.20	2.00	1801.53	683.29	2160.16	1637.58	66.52	16.30	8.15	5.18	0.00	8.15	8.15
VANO 14	2.40	3.00	1698.44	656.36	2087.14	1553.11	51.73	12.67	6.34	5.18	0.00	6.34	6.34
VANO 14	3.60	4.00	1605.64	629.66	2016.14	1468.51	48.77	11.95	5.97	5.18	0.00	5.97	5.97
VANO 14	4.80	5.00	1513.50	603.18	1946.17	1383.78	46.11	11.30	5.65	5.18	0.00	5.65	5.65
VANO 14	4.80	6.00	1513.50	603.18	1946.17	1383.78	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 14	6.00	7.00	1422.07	576.92	1879.23	1298.93	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 14	7.20	8.00	1331.41	550.89	1814.42	1213.96	40.84	10.00	5.00	5.18	0.00	5.18	5.00
VANO 14	8.40	9.00	1232.18	525.09	1751.04	1128.88	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 14	9.60	10.00	1130.68	499.51	1689.58	1043.69	35.38	8.67	4.33	5.18	0.00	5.18	4.33
VANO 14	9.60	11.00	1130.68	499.51	1689.58	1043.69	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 14	10.80	12.00	1030.10	474.16	1630.05	958.40	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 14	12.00	13.00	930.46	449.04	1572.43	873.01	29.58	7.25	3.62	5.18	0.00	5.18	3.62
VANO 14	13.20	14.00	831.83	424.14	1516.79	787.54	26.72	6.55	3.27	5.18	0.00	5.18	3.27
VANO 14	14.40	15.00	734.22	399.46	1463.04	701.99	23.89	5.85	2.93	5.18	0.00	5.18	2.93
VANO 14	14.40	16.00	717.28	399.46	1463.04	685.05	21.08	5.17	2.58	5.18	0.00	5.18	2.58
VANO 14	15.60	17.00	620.74	375.01	1411.23	599.42	20.60	5.05	2.52	5.18	0.00	5.18	2.52
VANO 14	16.80	18.00	525.30	350.79	1361.34	513.73	17.82	4.37	2.18	5.18	0.00	5.18	2.18
VANO 14	18.00	19.00	430.99	326.79	1313.33	427.98	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 14	19.20	20.00	489.77	177.07	1267.43	342.19	12.38	3.03	1.52	5.18	0.00	5.18	1.52
VANO 14	19.20	21.00	489.77	177.07	1267.43	342.19	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 14	20.40	22.00	567.43	166.70	1223.63	256.36	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 14	21.60	23.00	646.40	156.32	1182.00	170.50	16.29	3.99	2.00	5.18	0.00	5.18	2.00
VANO 14	22.80	24.00	726.69	145.95	1142.43	84.63	18.56	4.55	2.27	5.18	0.00	5.18	2.27
VANO 14	24.00	25.00	399.83	135.57	1105.00	2.42	20.87	5.11	2.56	5.18	0.00	5.18	2.56
VANO 14	24.00	26.00	399.83	135.57	1105.00	2.42	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 14	25.20	27.00	711.62	187.04	1077.35	88.01	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 14	26.40	28.00	631.31	164.70	1069.16	173.03	20.43	5.01	2.50	5.18	0.00	5.18	2.50
VANO 14	27.60	29.00	552.32	142.63	1100.17	258.89	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 14	28.80	30.00	474.65	120.83	1139.21	344.72	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 14	28.80	31.00	474.65	120.83	1139.21	344.72	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 14	30.00	32.00	441.60	111.38	1181.35	430.51	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 14	31.20	33.00	535.90	124.89	1225.64	516.26	12.68	3.11	1.55	5.18	0.00	5.18	1.55
VANO 14	32.40	34.00	631.32	143.44	1271.9	601.95	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 14	33.60	35.00	727.84	163.77	1320.11	687.58	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 14	33.60	36.00	727.84	163.77	1320.11	687.58	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 14	34.80	37.00	825.43	184.39	1371.34	773.13	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 14	36.00	38.00	924.05	205.23	1426.36	858.61	23.70	5.81	2.90	5.18	0.00	5.18	2.90
VANO 14	37.20	39.00	1023.67	226.30	1483.29	944.00	26.53	6.50	3.25	5.18	0.00	5.18	3.25
VANO 14	38.40	40.00	1124.25	247.59	1542.16	1029.29	29.40	7.20	3.60	5.18	0.00	5.18	3.60
VANO 14	38.40	41.00	1124.25	247.59	1542.16	1029.29	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 14	39.60	42.00	1225.73	269.50	1602.96	1114.48	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 14	40.80	43.00	1328.09	292.13	1665.61	1199.57	35.20	8.62	4.31	5.18	0.00	5.18	4.31
VANO 14	42.00	44.00	1431.26	314.99	1730.33	1284.54	38.14	9.34	4.67	5.18	0.00	5.18	4.67
VANO 14	43.20	45.00	1535.21	338.08	1796.9	1369.40	41.10	10.07	5.03	5.18	0.00	5.18	5.03
VANO 14	43.20	46.00	1535.21	338.08	1796.9	1369.40	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 14	44.40	47.00	1639.87	361.39	1865.4	1454.13	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 14	45.60	48.00	1745.20	384.93	1935.8	1538.74	47.09	11.54	5.77	5.18	0.00	5.77	5.77
VANO 14	46.80	49.00	1851.13	408.69	2008.2	1623.22	50.11	12.28	6.14	5.18	0.00	6.14	6.14
							53.16	13.02	6.51	5.18	0.00	6.51	6.51

ARMADO DE VOLADIZO JUNTO AL ALMA

CARACT. RASANTE

M est (S2)=	1.38
Inercia XX =	20.0
fyd cercos =	40816
colg tetha =	1
K rasant =	0.069
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO — **ARMADO DEFINITIV**

Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	FLEXIÓN TRANS As int-inf	As ext	As int
159.60	39.10	19.55	18.77	0.00	19.55	19.55
124.12	30.41	15.20	18.77	0.00	18.77	15.20
117.01	28.67	14.33	18.77	0.00	18.77	14.33
110.62	27.10	13.55	18.77	0.00	18.77	13.55
104.27	25.55	12.77	18.77	0.00	18.77	12.77
104.27	25.55	12.77	18.77	0.00	18.77	12.77
97.97	24.00	12.00	18.77	0.00	18.77	12.00
91.73	22.47	11.24	18.77	0.00	18.77	11.24
84.89	20.80	10.40	18.77	0.00	18.77	10.40
77.90	19.09	9.54	18.77	0.00	18.77	9.54
77.90	19.09	9.54	18.77	0.00	18.77	9.54
70.97	17.39	8.69	18.77	0.00	18.77	8.69
64.10	15.71	7.85	18.77	0.00	18.77	7.85
57.31	14.04	7.02	18.77	0.00	18.77	7.02
50.58	12.39	6.20	18.77	0.00	18.77	6.20
49.42	12.11	6.05	18.77	0.00	18.77	6.05
42.77	10.48	5.24	18.77	0.00	18.77	5.24
36.19	8.87	4.43	18.77	0.00	18.77	4.43
29.69	7.27	3.64	18.77	0.00	18.77	3.64
33.74	8.27	4.13	18.77	0.00	18.77	4.13
33.74	8.27	4.13	18.77	0.00	18.77	4.13
39.09	9.58	4.79	18.77	0.00	18.77	4.79
44.53	10.91	5.46	18.77	0.00	18.77	5.46
50.07	12.27	6.13	18.77	0.00	18.77	6.13
27.55	6.75	3.37	18.77	0.00	18.77	3.37
27.55	6.75	3.37	18.77	0.00	18.77	3.37
49.03	12.01	6.01	18.77	0.00	18.77	6.01
43.49	10.66	5.33	18.77	0.00	18.77	5.33
38.05	9.32	4.66	18.77	0.00	18.77	4.66
32.70	8.01	4.01	18.77	0.00	18.77	4.01
32.70	8.01	4.01	18.77	0.00	18.77	4.01
30.42	7.45	3.73	18.77	0.00	18.77	3.73
36.92	9.05	4.52	18.77	0.00	18.77	4.52
43.49	10.66	5.33	18.77	0.00	18.77	5.33
50.14	12.29	6.14	18.77	0.00	18.77	6.14
50.14	12.29	6.14	18.77	0.00	18.77	6.14
56.87	13.93	6.97	18.77	0.00	18.77	6.97
63.66	15.60	7.80	18.77	0.00	18.77	7.80
70.53	17.28	8.64	18.77	0.00	18.77	8.64
77.46	18.98	9.49	18.77	0.00	18.77	9.49
77.46	18.98	9.49	18.77	0.00	18.77	9.49
84.45	20.69	10.34	18.77	0.00	18.77	10.34
91.50	22.42	11.21	18.77	0.00	18.77	11.21
98.61	24.16	12.08	18.77	0.00	18.77	12.08
105.77	25.91	12.96	18.77	0.00	18.77	12.96
105.77	25.91	12.96	18.77	0.00	18.77	12.96
112.98	27.68	13.84	18.77	0.00	18.77	13.84
120.24	29.46	14.73	18.77	0.00	18.77	14.73
127.53	31.25	15.62	18.77	0.00	18.77	15.62
159.60	39.10	19.55	18.77	0.00	19.55	19.55
124.12	30.41	15.20	18.77	0.00	18.77	15.20
117.01	28.67	14.33	18.77	0.00	18.77	14.33
110.62	27.10	13.55	18.77	0.00	18.77	13.55
104.27	25.55	12.77	18.77	0.00	18.77	12.77
104.27	25.55	12.77	18.77	0.00	18.77	12.77
97.97	24.00	12.00	18.77	0.00	18.77	12.00
91.73	22.47	11.24	18.77	0.00	18.77	11.24
84.89	20.80	10.40	18.77	0.00	18.77	10.40
77.90	19.09	9.54	18.77	0.00	18.77	9.54
77.90	19.09	9.54	18.77	0.00	18.77	9.54
70.97	17.39	8.69	18.77	0.00	18.77	8.69
64.10	15.71	7.85	18.77	0.00	18.77	7.85
57.31	14.04	7.02	18.77	0.00	18.77	7.02
50.58	12.39	6.20	18.77	0.00	18.77	6.20
49.42	12.11	6.05	18.77	0.00	18.77	6.05
42.77	10.48	5.24	18.77	0.00	18.77	5.24
36.19	8.87	4.43	18.77	0.00	18.77	4.43
29.69	7.27	3.64	18.77	0.00	18.77	3.64
33.74	8.27	4.13	18.77	0.00	18.77	4.13
33.74	8.27	4.13	18.77	0.00	18.77	4.13
39.09	9.58	4.79	18.77	0.00	18.77	4.79
44.53	10.91	5.46	18.77	0.00	18.77	5.46
50.07	12.27	6.13	18.77	0.00	18.77	6.13
27.55	6.75	3.37	18.77	0.00	18.77	3.37
27.55	6.75	3.37	18.77	0.00	18.77	3.37
49.03	12.01	6.01	18.77	0.00	18.77	6.01
43.49	10.66	5.33	18.77	0.00	18.77	5.33
38.05	9.32	4.66	18.77	0.00	18.77	4.66
32.70	8.01	4.01	18.77	0.00	18.77	4.01
32.70	8.01	4.01	18.77	0.00	18.77	4.01
30.42	7.45	3.73	18.77	0.00	18.77	3.73
36.92	9.05	4.52	18.77	0.00	18.77	4.52
43.49	10.66	5.33	18.77	0.00	18.77	5.33
50.14	12.29	6.14	18.77	0.00	18.77	6.14
50.14	12.29	6.14	18.77	0.00	18.77	6.14
56.87	13.93	6.97	18.77	0.00	18.77	6.97
63.66	15.60	7.80	18.77	0.00	18.77	7.80
70.53	17.28	8.64	18.77	0.00	18.77	8.64
77.46	18.98	9.49	18.77	0.00	18.77	9.49
77.46	18.98	9.49	18.77	0.00	18.77	9.49
84.45	20.69	10.34	18.77	0.00	18.77	10.34
91.50	22.42	11.21	18.77	0.00	18.77	11.21
98.61	24.16	12.08	18.77	0.00	18.77	12.08
105.77	25.91	12.96	18.77	0.00	18.77	12.96
105.77	25.91	12.96	18.77	0.00	18.77	12.96
112.98	27.68	13.84	18.77	0.00	18.77	13.84
120.24	29.46	14.73	18.77	0.00	18.77	14.73
127.53	31.25	15.62	18.77	0.00	18.77	15.62

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC COV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE VOLADIZO EN ZONA EXTERIOR

CARACT. RASANTE

M est (S1)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

			Hipótesis max cortante		Hipótesis max torsor		Dos caras	Una cara	FLEXIÓN TRANS		ARMADO DEFINITV	
	X	Nudo	Vd max	Td con	Td max	Vd con	Us (t)	As ras/m	As (Rd)	As ext-sup	As int-inf	As ext	As int
VANO 15	0.00	1.00	2308.60	491.26	2734.62	1269.42							
VANO 15	1.20	2.00	2316.53	710.45	2323.20	1715.51	66.52	16.30	8.15	5.18	0.00	8.15	8.15
VANO 15	2.40	3.00	1801.53	683.29	2247.92	1631.17	51.73	12.67	6.34	5.18	0.00	6.34	6.34
VANO 15	3.60	4.00	1698.44	656.36	2174.57	1546.70	48.77	11.95	5.97	5.18	0.00	5.97	5.97
VANO 15	4.80	5.00	1605.64	629.66	2103.15	1462.10	46.11	11.30	5.65	5.18	0.00	5.65	5.65
VANO 15	4.80	6.00	1513.50	603.18	2033.55	1377.38	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 15	6.00	7.00	1422.07	576.92	1966.38	1292.53	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 15	7.20	8.00	1331.41	550.89	1900.14	1207.57	40.84	10.00	5.00	5.18	0.00	5.18	5.00
VANO 15	8.40	9.00	1232.18	525.09	1836.73	1122.49	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 15	9.60	10.00	1130.68	499.51	1774.34	1037.30	35.38	8.67	4.33	5.18	0.00	5.18	4.33
VANO 15	9.60	11.00	1130.68	499.51	1774.34	1037.30	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 15	10.80	12.00	1030.10	474.16	1715.38	952.02	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 15	12.00	13.00	930.46	449.04	1657.14	866.64	29.58	7.25	3.62	5.18	0.00	5.18	3.62
VANO 15	13.20	14.00	831.83	424.14	1601.13	781.17	26.72	6.55	3.27	5.18	0.00	5.18	3.27
VANO 15	14.40	15.00	734.22	399.46	1547.35	695.63	23.89	5.85	2.93	5.18	0.00	5.18	2.93
VANO 15	14.40	16.00	717.28	399.46	1547.35	678.68	21.08	5.17	2.58	5.18	0.00	5.18	2.58
VANO 15	15.60	17.00	620.74	375.01	1494.30	593.06	20.60	5.05	2.52	5.18	0.00	5.18	2.52
VANO 15	16.80	18.00	525.30	350.79	1444.37	507.38	17.82	4.37	2.18	5.18	0.00	5.18	2.18
VANO 15	18.00	19.00	430.99	326.79	1396.37	421.64	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 15	19.20	20.00	489.77	177.07	1350.10	335.85	12.38	3.03	1.52	5.18	0.00	5.18	1.52
VANO 15	19.20	21.00	489.77	177.07	1350.10	335.85	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 15	20.40	22.00	567.43	166.70	1305.87	250.03	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 15	21.60	23.00	646.40	156.32	1263.87	164.17	16.29	3.99	2.00	5.18	0.00	5.18	2.00
VANO 15	22.80	24.00	726.69	145.95	1224.10	78.30	18.56	4.55	2.27	5.18	0.00	5.18	2.27
VANO 15	24.00	25.00	399.83	135.57	1186.66	7.60	20.87	5.11	2.56	5.18	0.00	5.18	2.56
VANO 15	24.00	26.00	399.83	135.57	1186.66	7.60	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 15	25.20	27.00	711.62	187.04	1150.66	94.38	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 15	26.40	28.00	631.31	164.70	1128.66	181.15	20.43	5.01	2.50	5.18	0.00	5.18	2.50
VANO 15	27.60	29.00	552.32	142.63	1111.63	267.91	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 15	28.80	30.00	474.65	120.83	1108.34	351.01	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 15	28.80	31.00	474.65	120.83	1108.34	351.01	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 15	30.00	32.00	441.60	111.38	1143.36	436.80	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 15	31.20	33.00	535.90	124.89	1180.92	522.54	12.68	3.11	1.55	5.18	0.00	5.18	1.55
VANO 15	32.40	34.00	631.32	143.44	1224.10	608.23	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 15	33.60	35.00	727.84	163.77	1271.18	693.85	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 15	33.60	36.00	727.84	163.77	1271.18	693.85	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 15	34.80	37.00	825.43	184.39	1321.25	779.40	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 15	36.00	38.00	924.05	205.23	1372.43	864.87	23.70	5.81	2.90	5.18	0.00	5.18	2.90
VANO 15	37.20	39.00	1023.67	226.30	1425.55	950.25	26.53	6.50	3.25	5.18	0.00	5.18	3.25
VANO 15	38.40	40.00	1124.25	247.59	1480.59	1035.54	29.40	7.20	3.60	5.18	0.00	5.18	3.60
VANO 15	38.40	41.00	1124.25	247.59	1480.59	1035.54	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 15	39.60	42.00	1225.73	269.50	1537.12	1120.73	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 15	40.80	43.00	1328.09	292.13	1597.31	1205.81	35.20	8.62	4.31	5.18	0.00	5.18	4.31
VANO 15	42.00	44.00	1431.26	314.99	1658.12	1290.78	38.14	9.34	4.67	5.18	0.00	5.18	4.67
VANO 15	43.20	45.00	1535.21	338.08	1722.07	1375.63	41.10	10.07	5.03	5.18	0.00	5.18	5.03
VANO 15	43.20	46.00	1535.21	338.08	1722.07	1375.63	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 15	44.40	47.00	1639.87	361.39	1787.03	1460.36	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 15	45.60	48.00	1745.20	384.93	1854.53	1544.96	47.09	11.54	5.77	5.18	0.00	5.77	5.77
VANO 15	46.80	49.00	1851.13	408.69	1923.65	1629.44	50.11	12.28	6.14	5.18	0.00	6.14	6.14
VANO 15	48.00	50.00	2308.60	491.26	1994.39	1712.76	53.16	13.02	6.51	5.18	0.00	6.51	6.51
VANO 16	0.00	1.00	2316.53	710.45	2288.01	1719.36	67.04	16.65	8.32	5.18	0.00	8.32	8.32
VANO 16	1.20	2.00	1801.53	683.29	2213.51	1635.02	66.52	16.30	8.15	5.18	0.00	8.15	8.15
VANO 16	2.40	3.00	1698.44	656.36	2140.63	1550.55	51.73	12.67	6.34	5.18	0.00	6.34	6.34
VANO 16	3.60	4.00	1605.64	629.66	2069.65	1465.96	48.77	11.95	5.97	5.18	0.00	5.97	5.97
VANO 16	4.80	5.00	1513.50	603.18	2000.60	1381.23	46.11	11.30	5.65	5.18	0.00	5.65	5.65
VANO 16	4.80	6.00	1513.50	603.18	2000.60	1381.23	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 16	6.00	7.00	1422.07	576.92	1933.43	1296.38	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 16	7.20	8.00	1331.41	550.89	1868.23	1211.42	40.84	10.00	5.00	5.18	0.00	5.18	5.00
VANO 16	8.40	9.00	1232.18	525.09	1804.91	1126.34	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 16	9.60	10.00	1130.68	499.51	1743.51	1041.16	35.38	8.67	4.33	5.18	0.00	5.18	4.33
VANO 16	9.60	11.00	1130.68	499.51	1743.51	1041.16	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 16	10.80	12.00	1030.10	474.16	1684.03	955.88	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 16	12.00	13.00	930.46	449.04	1626.44	870.50	29.58	7.25	3.62	5.18	0.00	5.18	3.62
VANO 16	13.20	14.00	831.83	424.14	1570.73	785.04	26.72	6.55	3.27	5.18	0.00	5.18	3.27
VANO 16	14.40	15.00	734.22	399.46	1517.01	699.49	23.89	5.85	2.93	5.18	0.00	5.18	2.93
VANO 16	14.40	16.00	717.28	399.46	1517.01	682.55	21.08	5.17	2.58	5.18	0.00	5.18	2.58
VANO 16	15.60	17.00	620.74	375.01	1465.23	596.93	20.60	5.05	2.52	5.18	0.00	5.18	2.52
VANO 16	16.80	18.00	525.30	350.79	1415.23	511.25	17.82	4.37	2.18	5.18	0.00	5.18	2.18
VANO 16	18.00	19.00	430.99	326.79	1367.27	425.51	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 16	19.20	20.00	489.77	177.07	1321.21	339.73	12.38	3.03	1.52	5.18	0.00	5.18	1.52
VANO 16	19.20	21.00	489.77	177.07	1321.21	339.73	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 16	20.40	22.00	567.43	166.70	1277.41	253.91	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 16	21.60	23.00	646.40	156.32	1235.64	168.06	16.29	3.99	2.00	5.18	0.00	5.18	2.00
VANO 16	22.80	24.00	726.69	145.95	1196.03	82.19	18.56	4.55	2.27	5.18	0.00	5.18	2.27
VANO 16	24.00	25.00	399.83	135.57	1158.5	4.12	20.87	5.11	2.56	5.18	0.00	5.18	2.56
VANO 16	24.00	26.00	399.83	135.57	1158.5	4.12	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 16	25.20	27.00	711.62	187.04	1127.2	90.46	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 16	26.40	28.00	631.31	164.70	1110.79	177.22	20.43	5.01	2.50	5.18	0.00	5.18	2.50
VANO 16	27.60	29.00	552.32	142.63	1112.9	261.29	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 16	28.80	30.00	474.65	120.83	1149.43	347.11	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 16	28.80	31.00	474.65	120.83	1149.43	347.11	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 16	30.00	32.00	441.60	111.38	1191.05	432.89	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 16	31.20	33.00	535.90	124.89	1234.68	518.63	12.68	3.11	1.55	5.18	0.00	5.18	1.55
VANO 16	32.40	34.00	631.32	143.44	1280.24	604.32	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 16	33.60	35.00	727.84	163.77	1327.71	689.94	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 16	33.60	36.00	727.84	163.77	1327.71	689.94	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 16	34.80	37.00	825.43	184.39	1377.42	775.48	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 16	36.00	38.00	924.05	205.23	1429.35	860.95	23.70	5.81	2.90	5.18	0.00	5.18	2.90
VANO 16	37.20	39.00	1023.67	226.30	1483.12	946.33	26.53	6.50	3.25	5.18	0.00	5.18	3.25
VANO 16	38.40	40.00	1124.25	247.59	1538.83	1031.62	29.40	7.20	3.60	5.18	0.00	5.18	3.60
VANO 16	38.40	41.00	1124.25	247.59	1538.83	1031.62	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 16	39.60	42.00	1225.73	269.50	1596.48	1116.80	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 16	40.80	43.00	1328.09	292.13	1656.00	1201.88	35.20	8.62	4.31	5.18	0.00	5.18	4.31
VANO 16	42.00	44.00	1431.26	314.99	1717.46	1286.85	38.14	9.34	4.67	5.18	0.00	5.18	4.67
VANO 16	43.20	45.00	1535.21	338.08	1783.23	1371.70	41.10	10.07	5.03	5.18	0.00	5.18	5.03
VANO 16	43.20	46.00	1535.21	338.08	1783.23	1371.70	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 16	44.40	47.00	1639.87	361.39	1851.61	1456.43	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 16	45.60	48.00	1745.20	384.93	1921.91	1541.03	47.09	11.54	5.77	5.18	0.00	5.77	5.77
VANO 16	46.80	49.00	1851.13	408.69	1994.11	1625.51	50.11	12.28	6.14	5.18	0.00	6.14	6.14
							53.16	13.02	6.51	5.18	0.00	6.51	6.51

ARMADO DE VOLADIZO JUNTO AL ALMA

CARACT. RASANTE

M est (S2)=	1.38
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.069
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

	Dos caras	Una cara	FLEXIÓN TRANS		ARMADO DEFINITV	
	Us (t)	As ras/m	As (Rd)	As ext-sup	As int-inf	As ext	As int
VANO 15							
VANO 15	159.60	39.10	19.55	18.77	0.00	19.55	19.55
VANO 15	124.12	30.41	15.20	18.77	0.00	18.77	15.20
VANO 15	117.01	28.67	14.33	18.77	0.00	18.77	14.33
VANO 15	110.62	27.10	13.55	18.77	0.00	18.77	13.55
VANO 15	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 15	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 15	97.97	24.00	12.00	18.77	0.00	18.77	12.00
VANO 15	91.73	22.47	11.24	18.77	0.00	18.77	11.24
VANO 15	84.89	20.80	10.40	18.77	0.00	18.77	10.40
VANO 15	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 15	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 15	70.97	17.39	8.69	18.77	0.00	18.77	8.69
VANO 15	64.10	15.71	7.85	18.77	0.00	18.77	7.85
VANO 15	57.31	14.04	7.02	18.77	0.00	18.77	7.02
VANO 15	50.58	12.39	6.20	18.77	0.00	18.77	6.20
VANO 15	49.42	12.11	6.05	18.77	0.00	18.77	6.05
VANO 15	42.77	10.48	5.24	18.77	0.00	18.77	5.24
VANO 15	36.19	8.87	4.43	18.77	0.00	18.77	4.43
VANO 15	29.69	7.27	3.64	18.77	0.00	18.77	3.64
VANO 15	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 15	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 15	39.09	9.58	4.79	18.77	0.00	18.77	4.79
VANO 15	44.53	10.91	5.46	18.77	0.00	18.77	5.46
VANO 15	50.07	12.27	6.13	18.77	0.00	18.77	6.13
VANO 15	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 15	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 15	49.03	12.01	6.01	18.77	0.00	18.77	6.01
VANO 15	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 15	38.05	9.32	4.66	18.77	0.00	18.77	4.66
VANO 15	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 15	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 15	30.42	7.45	3.73	18.77	0.00	18.77	3.73
VANO 15	36.92	9.05	4.52	18.77	0.00	18.77	4.52
VANO 15	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 15	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 15	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 15	56.87	13.93	6.97	18.77	0.00	18.77	6.97
VANO 15	63.66	15.60	7.80	18.77	0.00	18.77	7.80
VANO 15	70.53	17.28	8.64	18.77	0.00	18.77	8.64
VANO 15	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 15	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 15	84.45	20.69	10.34	18.77	0.00	18.77	10.34
VANO 15	91.50	22.42	11.21	18.77	0.00	18.77	11.21
VANO 15	98.61	24.16	12.08	18.77	0.00	18.77	12.08
VANO 15	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 15	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 15	112.98	27.68	13.84	18.77	0.00	18.77	13.84
VANO 15	120.24	29.46	14.73	18.77	0.00	18.77	14.73
VANO 15	127.53	31.25	15.62	18.77	0.00	18.77	15.62
VANO 16	163.02	39.94	19.97	18.77	0.00	19.97	19.97
VANO 16	159.60	39.10	19.55	18.77	0.00	19.55	19.55
VANO 16	124.12	30.41	15.20	18.77	0.00	18.77	15.20
VANO 16	117.01	28.67	14.33	18.77	0.00	18.77	14.33
VANO 16	110.62	27.10	13.55	18.77	0.00	18.77	13.55
VANO 16	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 16	104.27	25.55	12.77	18.77	0.00	18.77	12.77
VANO 16	97.97	24.00	12.00	18.77	0.00	18.77	12.00
VANO 16	91.73	22.47	11.24	18.77	0.00	18.77	11.24
VANO 16	84.89	20.80	10.40	18.77	0.00	18.77	10.40
VANO 16	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 16	77.90	19.09	9.54	18.77	0.00	18.77	9.54
VANO 16	70.97	17.39	8.69	18.77	0.00	18.77	8.69
VANO 16	64.10	15.71	7.85	18.77	0.00	18.77	7.85
VANO 16	57.31	14.04	7.02	18.77	0.00	18.77	7.02
VANO 16	50.58	12.39	6.20	18.77	0.00	18.77	6.20
VANO 16	49.42	12.11	6.05	18.77	0.00	18.77	6.05
VANO 16	42.77	10.48	5.24	18.77	0.00	18.77	5.24
VANO 16	36.19	8.87	4.43	18.77	0.00	18.77	4.43
VANO 16	29.69	7.27	3.64	18.77	0.00	18.77	3.64
VANO 16	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 16	33.74	8.27	4.13	18.77	0.00	18.77	4.13
VANO 16	39.09	9.58	4.79	18.77	0.00	18.77	4.79
VANO 16	44.53	10.91	5.46	18.77	0.00	18.77	5.46
VANO 16	50.07	12.27	6.13	18.77	0.00	18.77	6.13
VANO 16	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 16	27.55	6.75	3.37	18.77	0.00	18.77	3.37
VANO 16	49.03	12.01	6.01	18.77	0.00	18.77	6.01
VANO 16	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 16	38.05	9.32	4.66	18.77	0.00	18.77	4.66
VANO 16	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 16	32.70	8.01	4.01	18.77	0.00	18.77	4.01
VANO 16	30.42	7.45	3.73	18.77	0.00	18.77	3.73
VANO 16	36.92	9.05	4.52	18.77	0.00	18.77	4.52
VANO 16	43.49	10.66	5.33	18.77	0.00	18.77	5.33
VANO 16	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 16	50.14	12.29	6.14	18.77	0.00	18.77	6.14
VANO 16	56.87	13.93	6.97	18.77	0.00	18.77	6.97
VANO 16	63.66	15.60	7.80	18.77	0.00	18.77	7.80
VANO 16	70.53	17.28	8.64	18.77	0.00	18.77	8.64
VANO 16	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 16	77.46	18.98	9.49	18.77	0.00	18.77	9.49
VANO 16	84.45	20.69	10.34	18.77	0.00	18.77	10.34
VANO 16	91.50	22.42	11.21	18.77	0.00	18.77	11.21
VANO 16	98.61	24.16	12.08	18.77	0.00	18.77	12.08
VANO 16	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 16	105.77	25.91	12.96	18.77	0.00	18.77	12.96
VANO 16	112.98	27.68	13.84	18.77	0.00	18.77	13.84
VANO 16	120.24	29.46	14.73	18.77	0.00	18.77	14.73
VANO 16	127.53	31.25	15.62	18.77	0.00	18.77	15.62

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE VOLADIZO EN ZONA EXTERIOR

CARACT. RASANTE

M est (S1)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO — **ARMADO DEFINITIV**

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	As ext	As int
			2508.00	481.28	2734.10	1258.42							
VANO 17	0.00	1.00	2316.53	710.45	2280.43	1717.77	66.52	16.30	8.15	5.18	0.00	8.15	8.15
VANO 17	1.20	2.00	1801.53	683.29	2205.69	1633.44	51.73	12.67	6.34	5.18	0.00	6.34	6.34
VANO 17	2.40	3.00	1698.44	656.36	2132.05	1548.97	48.77	11.95	5.97	5.18	0.00	5.97	5.97
VANO 17	3.60	4.00	1605.64	629.66	2061.12	1464.37	46.11	11.30	5.65	5.18	0.00	5.65	5.65
VANO 17	4.80	5.00	1513.50	603.18	1992.10	1379.65	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 17	4.80	6.00	1513.50	603.18	1992.10	1379.65	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 17	6.00	7.00	1422.07	576.92	1925.19	1294.80	40.84	10.00	5.00	5.18	0.00	5.18	5.00
VANO 17	7.20	8.00	1331.41	550.89	1860.59	1209.84	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 17	8.40	9.00	1232.18	525.09	1797.10	1124.77	35.38	8.67	4.33	5.18	0.00	5.18	4.33
VANO 17	9.60	10.00	1130.68	499.51	1735.51	1039.59	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 17	9.60	11.00	1130.68	499.51	1735.51	1039.59	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 17	10.80	12.00	1030.10	474.16	1676.44	954.31	29.58	7.25	3.62	5.18	0.00	5.18	3.62
VANO 17	12.00	13.00	930.46	449.04	1618.67	868.93	26.72	6.55	3.27	5.18	0.00	5.18	3.27
VANO 17	13.20	14.00	831.83	424.14	1563.32	783.47	23.89	5.85	2.93	5.18	0.00	5.18	2.93
VANO 17	14.40	15.00	734.22	399.46	1509.47	697.93	21.08	5.17	2.58	5.18	0.00	5.18	2.58
VANO 17	14.40	16.00	717.28	399.46	1509.47	680.99	20.60	5.05	2.52	5.18	0.00	5.18	2.52
VANO 17	15.60	17.00	620.74	375.01	1457.63	595.37	17.82	4.37	2.18	5.18	0.00	5.18	2.18
VANO 17	16.80	18.00	525.30	350.79	1407.10	509.69	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 17	18.00	19.00	430.99	326.79	1359.68	423.96	12.38	3.03	1.52	5.18	0.00	5.18	1.52
VANO 17	19.20	20.00	489.77	177.07	1313.67	338.18	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 17	19.20	21.00	489.77	177.07	1313.67	338.18	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 17	20.40	22.00	567.43	166.70	1269.77	252.36	16.29	3.99	2.00	5.18	0.00	5.18	2.00
VANO 17	21.60	23.00	646.40	156.32	1227.59	166.51	18.56	4.55	2.27	5.18	0.00	5.18	2.27
VANO 17	22.80	24.00	726.69	145.95	1188.32	80.65	20.87	5.11	2.56	5.18	0.00	5.18	2.56
VANO 17	24.00	25.00	399.83	135.57	1150.19	5.23	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 17	24.00	26.00	399.83	135.57	1150.19	5.23	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 17	25.20	27.00	711.62	187.04	1123.33	92.00	20.43	5.01	2.50	5.18	0.00	5.18	2.50
VANO 17	26.40	28.00	631.31	164.70	1106.68	178.76	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 17	27.60	29.00	552.32	142.63	1126.66	262.81	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 17	28.80	30.00	474.65	120.83	1159.72	348.63	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 17	28.80	31.00	474.65	120.83	1159.72	348.63	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 17	30.00	32.00	441.60	111.38	1199.69	434.41	12.68	3.11	1.55	5.18	0.00	5.18	1.55
VANO 17	31.20	33.00	535.90	124.89	1243.33	520.14	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 17	32.40	34.00	631.32	143.44	1288.82	605.82	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 17	33.60	35.00	727.84	163.77	1336.73	691.44	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 17	33.60	36.00	727.84	163.77	1336.73	691.44	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 17	34.80	37.00	825.43	184.39	1386.63	776.98	23.70	5.81	2.90	5.18	0.00	5.18	2.90
VANO 17	36.00	38.00	924.05	205.23	1438.53	862.45	26.53	6.50	3.25	5.18	0.00	5.18	3.25
VANO 17	37.20	39.00	1023.67	226.30	1492.24	947.82	29.40	7.20	3.60	5.18	0.00	5.18	3.60
VANO 17	38.40	40.00	1124.25	247.59	1547.93	1033.11	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 17	38.40	41.00	1124.25	247.59	1547.93	1033.11	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 17	39.60	42.00	1225.73	269.50	1607.03	1118.29	35.20	8.62	4.31	5.18	0.00	5.18	4.31
VANO 17	40.80	43.00	1328.09	292.13	1669.63	1203.36	38.14	9.34	4.67	5.18	0.00	5.18	4.67
VANO 17	42.00	44.00	1431.26	314.99	1734.23	1288.33	41.10	10.07	5.03	5.18	0.00	5.18	5.03
VANO 17	43.20	45.00	1535.21	338.08	1800.64	1373.18	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 17	43.20	46.00	1535.21	338.08	1800.64	1373.18	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 17	44.40	47.00	1639.87	361.39	1868.93	1457.90	47.09	11.54	5.77	5.18	0.00	5.77	5.77
VANO 17	45.60	48.00	1745.20	384.93	1939.21	1542.50	50.11	12.28	6.14	5.18	0.00	6.14	6.14
VANO 17	46.80	49.00	1851.13	408.69	2011.43	1626.97	53.16	13.02	6.51	5.18	0.00	6.51	6.51
VANO 17	48.00	50.00	2366.13	432.68	2085.47	1711.31	67.94	16.63	8.32	5.18	0.00	8.32	8.32
VANO 18	0.00	1.00	2316.53	710.45	2247.63	1717.21	66.52	16.30	8.15	5.18	0.00	8.15	8.15
VANO 18	1.20	2.00	1801.53	683.29	2173.15	1632.87	51.73	12.67	6.34	5.18	0.00	6.34	6.34
VANO 18	2.40	3.00	1698.44	656.36	2100.43	1548.41	48.77	11.95	5.97	5.18	0.00	5.97	5.97
VANO 18	3.60	4.00	1605.64	629.66	2029.71	1463.81	46.11	11.30	5.65	5.18	0.00	5.65	5.65
VANO 18	4.80	5.00	1513.50	603.18	1960.83	1379.08	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 18	4.80	6.00	1513.50	603.18	1960.83	1379.08	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 18	6.00	7.00	1422.07	576.92	1893.91	1294.24	40.84	10.00	5.00	5.18	0.00	5.18	5.00
VANO 18	7.20	8.00	1331.41	550.89	1828.84	1209.28	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 18	8.40	9.00	1232.18	525.09	1765.7	1124.20	35.38	8.67	4.33	5.18	0.00	5.18	4.33
VANO 18	9.60	10.00	1130.68	499.51	1704.4	1039.02	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 18	9.60	11.00	1130.68	499.51	1704.4	1039.02	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 18	10.80	12.00	1030.10	474.16	1645.1	953.74	29.58	7.25	3.62	5.18	0.00	5.18	3.62
VANO 18	12.00	13.00	930.46	449.04	1587.7	868.37	26.72	6.55	3.27	5.18	0.00	5.18	3.27
VANO 18	13.20	14.00	831.83	424.14	1532.1	782.91	23.89	5.85	2.93	5.18	0.00	5.18	2.93
VANO 18	14.40	15.00	734.22	399.46	1478.5	697.37	21.08	5.17	2.58	5.18	0.00	5.18	2.58
VANO 18	14.40	16.00	717.28	399.46	1478.5	680.42	20.60	5.05	2.52	5.18	0.00	5.18	2.52
VANO 18	15.60	17.00	620.74	375.01	1426.8	594.81	17.82	4.37	2.18	5.18	0.00	5.18	2.18
VANO 18	16.80	18.00	525.30	350.79	1376.9	509.13	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 18	18.00	19.00	430.99	326.79	1329.0	423.40	12.38	3.03	1.52	5.18	0.00	5.18	1.52
VANO 18	19.20	20.00	489.77	177.07	1283.1	337.62	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 18	19.20	21.00	489.77	177.07	1283.1	337.62	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 18	20.40	22.00	567.43	166.70	1239.3	251.80	16.29	3.99	2.00	5.18	0.00	5.18	2.00
VANO 18	21.60	23.00	646.40	156.32	1197.6	165.96	18.56	4.55	2.27	5.18	0.00	5.18	2.27
VANO 18	22.80	24.00	726.69	145.95	1158.0	80.10	20.87	5.11	2.56	5.18	0.00	5.18	2.56
VANO 18	24.00	25.00	399.83	135.57	1120.5	5.78	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 18	24.00	26.00	399.83	135.57	1120.5	5.78	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 18	25.20	27.00	711.62	187.04	1096.81	92.56	20.43	5.01	2.50	5.18	0.00	5.18	2.50
VANO 18	26.40	28.00	631.31	164.70	1111.62	177.51	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 18	27.60	29.00	552.32	142.63	1143.11	263.36	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 18	28.80	30.00	474.65	120.83	1182.62	349.17	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 18	28.80	31.00	474.65	120.83	1182.62	349.17	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 18	30.00	32.00	441.60	111.38	1224.62	434.95	12.68	3.11	1.55	5.18	0.00	5.18	1.55
VANO 18	31.20	33.00	535.90	124.89	1268.84	520.69	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 18	32.40	34.00	631.32	143.44	1314.96	606.36	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 18	33.60	35.00	727.84	163.77	1365.87	691.98	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 18	33.60	36.00	727.84	163.77	1365.87	691.98	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 18	34.80	37.00	825.43	184.39	1418.94	777.52	23.70	5.81	2.90	5.18	0.00	5.18	2.90
VANO 18	36.00	38.00	924.05	205.23	1473.91	862.98	26.53	6.50	3.25	5.18	0.00	5.18	3.25
VANO 18	37.20	39.00	1023.67	226.30	1530.79	948.36	29.40	7.20	3.60	5.18	0.00	5.18	3.60
VANO 18	38.40	40.00	1124.25	247.59	1589.56	1033.64	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 18	38.40	41.00	1124.25	247.59	1589.56	1033.64	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 18	39.60	42.00	1225.73	269.50	1650.24	1118.82	35.20	8.62	4.31	5.18	0.00	5.18	4.31
VANO 18	40.80	43.00	1328.09	292.13	1712.83	1203.89	38.14	9.34	4.67	5.18	0.00	5.18	4.67
VANO 18	42.00	44.00	1431.26	314.99	1777.31	1288.86	41.10	10.07	5.03	5.18	0.00	5.18	5.03
VANO 18	43.20	45.00	1535.21	338.08	1843.70	1373.70	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 18	43.20	46.00	1535.21	338.08	1843.70	1373.70	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 18	44.40	47.00	1639.87	361.39	1911.99	1458.43	47.09	11.54	5.77	5.18	0.00	5.77	5.77
VANO 18	45.60	48.00	1745.20	384.93	1982.18	1543.03	50.11	12.28	6.14	5.18	0.00	6.14	6.14
VANO 18	46.80	49.00	1851.13	408.69	2054.28	1627.50	53.16	13.02	6.51	5.18	0.00	6.51	6.51

ARMADO DE VOLADIZO JUNTO AL ALMA

CARACT. RASANTE

M est (S2)=	1.38
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.069
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO — **ARMADO DEFINITIV**

Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	As ext	As int
159.60	39.10	19.55	18.77	0.00	19.55	19.55
124.12	30.41	15.20	18.77	0.00	18.77	15.20
117.01	28.67	14.33	18.77	0.00	18.77	14.33
110.62	27.10	13.55	18.77	0.00	18.77	13.55
104.27	25.55	12.77	18.77	0.00	18.77	12.77
104.27	25.55	12.77	18.77	0.00	18.77	12.77
97.97	24.00	12.00	18.77	0.00	18.77	12.00
91.73	22.47	11.24	18.77	0.00	18.77	11.24
84.89	20.80	10.40	18.77	0.00	18.77	10.40
77.90	19.09	9.54	18.77	0.00	18.77	9.54
77.90	19.09	9.54	18.77	0.00	18.77	9.54
70.97	17.39	8.69	18.77	0.00	18.77	8.69
64.10	15.71	7.85	18.77	0.00	18.77	7.85
57.31	14.04	7.02	18.77	0.00	18.77	7.02
50.58	12.39	6.20	18.77	0.00	18.77	6.20
49.42	12.11	6.05	18.77	0.00	18.77	6.05
42.77	10.48	5.24	18.77	0.00	18.77	5.24
36.19	8.87	4.43	18.77	0.00	18.77	4.43
29.69	7.27	3.64	18.77	0.00	18.77	3.64
33.74	8.27	4.13	18.77	0.00	18.77	4.13
33.74	8.27	4.13	18.77	0.00	18.77	4.13
39.09	9.58	4.79	18.77	0.00	18.77	4.79
44.53	10.91	5.46	18.77	0.00	18.77	5.46
50.07	12.27	6.13	18.77	0.00	18.77	6.13
27.55	6.75	3.37	18.77	0.00	18.77	3.37
27.55	6.75	3.37	18.77	0.00	18.77	3.37
49.03	12.01	6.01	18.77	0.00	18.77	6.01
43.49	10.66	5.33	18.77	0.00	18.77	5.33
38.05	9.32	4.66	18.77	0.00	18.77	4.66
32.70	8.01	4.01	18.77	0.00	18.77	4.01
32.70	8.01	4.01	18.77	0.00	18.77	4.01
30.42	7.45	3.73	18.77	0.00	18.77	3.73
36.92	9.05	4.52	18.77	0.00	18.77	4.52
43.49	10.66	5.33	18.77	0.00	18.77	5.33
50.14	12.29	6.14	18.77	0.00	18.77	6.14
50.14	12.29	6.14	18.77	0.00	18.77	6.14
56.87	13.93	6.97	18.77	0.00	18.77	6.97
63.66	15.60	7.80	18.77	0.00	18.77	7.80
70.53	17.28	8.64	18.77	0.00	18.77	8.64
77.46	18.98	9.49	18.77	0.00	18.77	9.49
77.46	18.98	9.49	18.77	0.00	18.77	9.49
84.45	20.69	10.34	18.77	0.00	18.77	10.34
91.50	22.42	11.21	18.77	0.00	18.77	11.21
98.61	24.16	12.08	18.77	0.00	18.77	12.08
105.77	25.91	12.96	18.77	0.00	18.77	12.96
105.77	25.91	12.96	18.77	0.00	18.77	12.96
112.98	27.68	13.84	18.77	0.00	18.77	13.84
120.24	29.46	14.73	18.77	0.00	18.77	14.73
127.53	31.25	15.62	18.77	0.00	18.77	15.62
103.02	39.94	19.97	18.77	0.00	19.97	19.97
159.60	39.10	19.55	18.77	0.00	19.55	19.55
124.12	30.41	15.20	18.77	0.00	18.77	15.20
117.01	28.67	14.33	18.77	0.00	18.77	14.33
110.62	27.10	13.55	18.77	0.00	18.77	13.55
104.27	25.55	12.77	18.77	0.00	18.77	12.77
104.27	25.55	12.77	18.77	0.00	18.77	12.77
97.97	24.00	12.00	18.77	0.00	18.77	12.00
91.73	22.47	11.24	18.77	0.00	18.77	11.24
84.89	20.80	10.40	18.77	0.00	18.77	10.40
77.90	19.09	9.54	18.77	0.00	18.77	9.54
77.90	19.09	9.54	18.77	0.00	18.77	9.54
70.97	17.39	8.69	18.77	0.00	18.77	8.69
64.10	15.71	7.85	18.77	0.00	18.77	7.85
57.31	14.04	7.02	18.77	0.00	18.77	7.02
50.58	12.39	6.20	18.77	0.00	18.77	6.20
49.42	12.11	6.05	18.77	0.00	18.77	6.05
42.77	10.48	5.24	18.77	0.00	18.77	5.24
36.19	8.87	4.43	18.77	0.00	18.77	4.43
29.69	7.27	3.64	18.77	0.00	18.77	3.64
33.74	8.27	4.13	18.77	0.00	18.77	4.13
33.74	8.27	4.13	18.77	0.00	18.77	4.13
39.09	9.58	4.79	18.77	0.00	18.77	4.79
44.53	10.91	5.46	18.77	0.00	18.77	5.46
50.07	12.27	6.13	18.77	0.00	18.77	6.13
27.55	6.75	3.37	18.77	0.00	18.77	3.37
27.55	6.75	3.37	18.77	0.00	18.77	3.37
49.03	12.01	6.01	18.77	0.00	18.77	6.01
43.49	10.66	5.33	18.77	0.00	18.77	5.33
38.05	9.32	4.66	18.77	0.00	18.77	4.66
32.70	8.01	4.01	18.77	0.00	18.77	4.01
32.70	8.01	4.01	18.77	0.00	18.77	4.01
30.42	7.45	3.73	18.77	0.00	18.77	3.73
36.92	9.05	4.52	18.77	0.00	18.77	4.52
43.49	10.66	5.33	18.77	0.00	18.77	5.33
50.14	12.29	6.14	18.77	0.00	18.77	6.14
50.14	12.29	6.14	18.77	0.00	18.77	6.14
56.87	13.93	6.97	18.77	0.00	18.77	6.97
63.66	15.60	7.80	18.77	0.00	18.77	7.80
70.53	17.28	8.64	18.77	0.00	18.77	8.64
77.46	18.98	9.49	18.77	0.00	18.77	9.49
77.46	18.98	9.49	18.77	0.00	18.77	9.49
84.45	20.69	10.34	18.77	0.00	18.77	10.34
91.50	22.42	11.21	18.77	0.00	18.77	11.21
98.61	24.16	12.08	18.77	0.00	18.77	12.08
105.77	25.91	12.96	18.77	0.00	18.77	12.96
105.77	25.91	12.96	18.77	0.00	18.77	12.96
112.98	27.68	13.84	18.77	0.00	18.77	13.84
120.24	29.46	14.73	18.77	0.00	18.77	14.73
127.53	31.25	15.62	18.77	0.00	18.77	15.62

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamiento	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE VOLADIZO EN ZONA EXTERIOR

CARACT. RASANTE

M est (S1)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO — **ARMADO DEFINITIV**

	x	Nudo	Hipótesis max cortante Vd max	Vd con	Hipótesis max torsor Td max	Vd con	Dos caras Us (t)	Una cara As ras/m	As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	As ext	As int
			2508.00	461.26	2734.12	1259.42							
VANO 19	0.00	1.00	2316.53	710.45	2110.42	1719.54	66.52	16.30	8.15	5.18	0.00	8.15	8.15
VANO 19	1.20	2.00	1801.53	683.29	2036.10	1635.21	51.73	12.67	6.34	5.18	0.00	6.34	6.34
VANO 19	2.40	3.00	1698.44	656.36	1963.09	1550.74	48.77	11.95	5.97	5.18	0.00	5.97	5.97
VANO 19	3.60	4.00	1605.64	629.66	1893.18	1466.14	46.11	11.30	5.65	5.18	0.00	5.65	5.65
VANO 19	4.80	5.00	1513.50	603.18	1824.57	1381.42	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 19	4.80	6.00	1513.50	603.18	1824.57	1381.42	43.46	10.65	5.32	5.18	0.00	5.32	5.32
VANO 19	6.00	7.00	1422.07	576.92	1757.17	1296.57	40.84	10.00	5.00	5.18	0.00	5.18	5.00
VANO 19	7.20	8.00	1331.41	550.89	1693.08	1211.61	38.23	9.37	4.68	5.18	0.00	5.18	4.68
VANO 19	8.40	9.00	1232.18	525.09	1630.18	1126.54	35.38	8.67	4.33	5.18	0.00	5.18	4.33
VANO 19	9.60	10.00	1130.68	499.51	1569.19	1041.36	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 19	9.60	11.00	1130.68	499.51	1569.19	1041.36	32.47	7.95	3.98	5.18	0.00	5.18	3.98
VANO 19	10.80	12.00	1030.10	474.16	1510.11	956.08	29.58	7.25	3.62	5.18	0.00	5.18	3.62
VANO 19	12.00	13.00	930.46	449.04	1452.52	870.71	26.72	6.55	3.27	5.18	0.00	5.18	3.27
VANO 19	13.20	14.00	831.83	424.14	1397.64	785.24	23.89	5.85	2.93	5.18	0.00	5.18	2.93
VANO 19	14.40	15.00	734.22	399.46	1345.69	699.70	21.08	5.17	2.58	5.18	0.00	5.18	2.58
VANO 19	14.40	16.00	717.28	399.46	1345.69	682.76	20.60	5.05	2.52	5.18	0.00	5.18	2.52
VANO 19	15.60	17.00	620.74	375.01	1297.08	597.15	17.82	4.37	2.18	5.18	0.00	5.18	2.18
VANO 19	16.80	18.00	525.30	350.79	1250.66	511.47	15.08	3.70	1.85	5.18	0.00	5.18	1.85
VANO 19	18.00	19.00	430.99	326.79	1206.45	425.74	12.38	3.03	1.52	5.18	0.00	5.18	1.52
VANO 19	19.20	20.00	489.77	177.07	1164.64	339.96	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 19	19.20	21.00	489.77	177.07	1164.64	339.96	14.06	3.45	1.72	5.18	0.00	5.18	1.72
VANO 19	20.40	22.00	567.43	166.70	1127.08	254.15	16.29	3.99	2.00	5.18	0.00	5.18	2.00
VANO 19	21.60	23.00	646.40	156.32	1096.10	168.30	18.56	4.55	2.27	5.18	0.00	5.18	2.27
VANO 19	22.80	24.00	726.69	145.95	1088.45	83.36	20.87	5.11	2.56	5.18	0.00	5.18	2.56
VANO 19	24.00	25.00	399.83	135.57	1115.73	3.98	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 19	24.00	26.00	399.83	135.57	1115.73	3.98	11.48	2.81	1.41	5.18	0.00	5.18	1.41
VANO 19	25.20	27.00	711.62	187.04	1152.55	89.30	20.43	5.01	2.50	5.18	0.00	5.18	2.50
VANO 19	26.40	28.00	631.31	164.70	1192.27	175.16	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 19	27.60	29.00	552.32	142.63	1233.71	261.01	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 19	28.80	30.00	474.65	120.83	1277.25	346.82	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 19	28.80	31.00	474.65	120.83	1277.25	346.82	13.63	3.34	1.67	5.18	0.00	5.18	1.67
VANO 19	30.00	32.00	441.60	111.38	1322.50	432.60	12.68	3.11	1.55	5.18	0.00	5.18	1.55
VANO 19	31.20	33.00	535.90	124.89	1370.55	518.33	15.39	3.77	1.89	5.18	0.00	5.18	1.89
VANO 19	32.40	34.00	631.32	143.44	1420.11	604.01	18.13	4.44	2.22	5.18	0.00	5.18	2.22
VANO 19	33.60	35.00	727.84	163.77	1471.57	689.62	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 19	33.60	36.00	727.84	163.77	1471.57	689.62	20.90	5.12	2.56	5.18	0.00	5.18	2.56
VANO 19	34.80	37.00	825.43	184.39	1524.94	775.16	23.70	5.81	2.90	5.18	0.00	5.18	2.90
VANO 19	36.00	38.00	924.05	205.23	1580.21	860.62	26.53	6.50	3.25	5.18	0.00	5.18	3.25
VANO 19	37.20	39.00	1023.67	226.30	1637.38	945.99	29.40	7.20	3.60	5.18	0.00	5.18	3.60
VANO 19	38.40	40.00	1124.25	247.59	1696.45	1031.27	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 19	38.40	41.00	1124.25	247.59	1696.45	1031.27	32.28	7.91	3.95	5.18	0.00	5.18	3.95
VANO 19	39.60	42.00	1225.73	269.50	1757.41	1116.45	35.20	8.62	4.31	5.18	0.00	5.18	4.31
VANO 19	40.80	43.00	1328.09	292.13	1820.33	1201.52	38.14	9.34	4.67	5.18	0.00	5.18	4.67
VANO 19	42.00	44.00	1431.26	314.99	1885.12	1286.49	41.10	10.07	5.03	5.18	0.00	5.18	5.03
VANO 19	43.20	45.00	1535.21	338.08	1951.81	1371.33	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 19	43.20	46.00	1535.21	338.08	1951.81	1371.33	44.08	10.80	5.40	5.18	0.00	5.40	5.40
VANO 19	44.40	47.00	1639.87	361.39	2020.41	1456.05	47.09	11.54	5.77	5.18	0.00	5.77	5.77
VANO 19	45.60	48.00	1745.20	384.93	2090.91	1540.65	50.11	12.28	6.14	5.18	0.00	6.14	6.14
VANO 19	46.80	49.00	1851.13	408.69	2163.31	1625.12	53.16	13.02	6.51	5.18	0.00	6.51	6.51
VANO 19	48.00	50.00	2306.13	432.98	2237.02	1709.45	67.94	16.65	8.32	5.18	0.00	8.32	8.32
VANO 20	0.00	1.00	2308.18	416.89	1968.61	1715.72	66.28	16.24	8.12	5.18	0.00	8.12	8.12
VANO 20	1.20	2.00	1793.23	393.69	1896.11	1631.38	51.49	12.62	6.31	5.18	0.00	6.31	6.31
VANO 20	2.40	3.00	1687.35	369.93	1826.73	1546.90	48.45	11.87	5.94	5.18	0.00	5.94	5.94
VANO 20	3.60	4.00	1582.08	346.40	1759.23	1462.30	45.43	11.13	5.57	5.18	0.00	5.57	5.57
VANO 20	4.80	5.00	1477.47	323.10	1693.63	1377.57	42.43	10.39	5.20	5.18	0.00	5.20	5.20
VANO 20	4.80	6.00	1477.47	323.10	1693.63	1377.57	42.43	10.39	5.20	5.18	0.00	5.20	5.20
VANO 20	6.00	7.00	1373.58	300.01	1630.03	1292.72	39.44	9.66	4.83	5.18	0.00	5.18	4.83
VANO 20	7.20	8.00	1269.49	277.15	1568.33	1207.76	36.45	8.93	4.47	5.18	0.00	5.18	4.47
VANO 20	8.40	9.00	1167.19	254.54	1508.51	1122.68	33.52	8.21	4.11	5.18	0.00	5.18	4.11
VANO 20	9.60	10.00	1065.76	232.20	1450.61	1037.50	30.60	7.50	3.75	5.18	0.00	5.18	3.75
VANO 20	9.60	11.00	1065.76	232.20	1450.61	1037.50	30.60	7.50	3.75	5.18	0.00	5.18	3.75
VANO 20	10.80	12.00	965.23	210.50	1395.11	952.21	27.72	6.79	3.40	5.18	0.00	5.18	3.40
VANO 20	12.00	13.00	865.66	189.50	1342.02	866.84	24.86	6.09	3.05	5.18	0.00	5.18	3.05
VANO 20	13.20	14.00	767.09	168.72	1290.8	781.37	22.03	5.40	2.70	5.18	0.00	5.18	2.70
VANO 20	14.40	15.00	669.55	149.06	1242.40	695.83	19.23	4.71	2.36	5.18	0.00	5.18	2.36
VANO 20	14.40	16.00	652.61	149.06	1242.40	678.88	18.74	4.59	2.30	5.18	0.00	5.18	2.30
VANO 20	15.60	17.00	556.13	135.09	1201.36	593.27	15.97	3.91	1.96	5.18	0.00	5.18	1.96
VANO 20	16.80	18.00	460.75	121.34	1162.22	507.59	13.23	3.24	1.62	5.18	0.00	5.18	1.62
VANO 20	18.00	19.00	366.50	107.81	1125.02	421.85	10.52	2.58	1.29	5.18	0.00	5.18	1.29
VANO 20	19.20	20.00	415.94	111.37	1089.83	336.07	11.94	2.93	1.46	5.18	0.00	5.18	1.46
VANO 20	19.20	21.00	415.94	111.37	1089.83	336.07	11.94	2.93	1.46	5.18	0.00	5.18	1.46
VANO 20	20.40	22.00	496.78	133.21	1090.04	252.92	14.27	3.50	1.75	5.18	0.00	5.18	1.75
VANO 20	21.60	23.00	578.93	155.32	1104.07	166.18	16.62	4.07	2.04	5.18	0.00	5.18	2.04
VANO 20	22.80	24.00	662.40	177.71	1129.43	79.41	19.02	4.66	2.33	5.18	0.00	5.18	2.33
VANO 20	24.00	25.00	338.74	200.37	1164.56	7.33	9.73	2.38	1.19	5.18	0.00	5.18	1.19
VANO 20	24.00	26.00	338.74	200.37	1164.56	7.33	9.73	2.38	1.19	5.18	0.00	5.18	1.19
VANO 20	25.20	27.00	646.53	135.02	1201.88	93.20	18.57	4.55	2.27	5.18	0.00	5.18	2.27
VANO 20	26.40	28.00	563.13	145.47	1241.15	179.06	16.17	3.96	1.98	5.18	0.00	5.18	1.98
VANO 20	27.60	29.00	481.05	155.92	1282.62	264.90	13.81	3.38	1.69	5.18	0.00	5.18	1.69
VANO 20	28.80	30.00	400.28	170.28	1326.27	350.72	11.49	2.82	1.41	5.18	0.00	5.18	1.41
VANO 20	28.80	31.00	400.28	170.28	1326.27	350.72	11.49	2.82	1.41	5.18	0.00	5.18	1.41
VANO 20	30.00	32.00	382.92	317.64	1371.92	436.50	11.00	2.69	1.35	5.18	0.00	5.18	1.35
VANO 20	31.20	33.00	477.23	341.66	1419.65	522.23	13.70	3.36	1.68	5.18	0.00	5.18	1.68
VANO 20	32.40	34.00	572.66	365.91	1469.26	607.90	16.44	4.03	2.01	5.18	0.00	5.18	2.01
VANO 20	33.60	35.00	669.20	390.38	1520.86	693.51	19.22	4.71	2.35	5.18	0.00	5.18	2.35
VANO 20	33.60	36.00	669.20	390.38	1520.86	693.51	19.22	4.71	2.35	5.18	0.00	5.18	2.35
VANO 20	34.80	37.00	766.79	415.08	1574.25	779.05	22.02	5.39	2.70	5.18	0.00	5.18	2.70
VANO 20	36.00	38.00	865.42	439.99	1629.61	864.51	24.85	6.09	3.04	5.18	0.00	5.18	3.04
VANO 20	37.20	39.00	965.04	465.14	1686.85	949.88	27.71	6.79	3.39	5.18	0.00	5.18	3.39
VANO 20	38.40	40.00	1065.61	490.50	1746.07	1035.15	30.60	7.50	3.75	5.18	0.00	5.18	3.75
VANO 20	38.40	41.00	1065.61	490.50	1746.07	1035.15	30.60	7.50	3.75	5.18	0.00	5.18	3.75
VANO 20	39.60	42.00	1167.09	516.10	1807.17	1120.33	33.51	8.21	4.11	5.18	0.00	5.18	4.11
VANO 20	40.80	43.00	1269.43	541.91	1870.17	1205.40	36.45	8.93	4.47	5.18	0.00	5.18	4.47
VANO 20	42.00	44.00	1372.60	567.95	1935.09	1290.35	39.41	9.66	4.83	5.18	0.00	5.18	4.83
VANO 20	43.20	45.00	1476.52	594.21	2001.92	1375.19	42.40	10.39	5.19	5.18	0.00	5.19	5.19
VANO 20	43.20	46.00	1476.52	594.21	2001.92	1375.19	42.40	10.39	5.19	5.18	0.00	5.19	5.19
VANO 20	44.40	47.00	1581.17	620.70	2070.66	1459.91	45.40	11.12	5.56	5.18	0.00	5.56	5.56
VANO 20	45.60	48.00	1686.47	647.41	2141.31	1544.50	48.43	11.86	5.93	5.18	0.00	5.93	5.93
VANO 20	46.80	49.00	1792.38	674.34	2213.87	1628.96	51.47	12.61	6.30	5.18	0.00	6.30	6.30

ARMADO DE VOLADIZO JUNTO AL ALMA

CARACT. RASANTE

M est (S2)=	1.38
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.069
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO — **ARMADO DEFINITIV**

Dos caras Us (t)	Una cara As ras/m	As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	As ext	As int
159.60	39.10	19.55	18.77	0.00	19.55	19.55
124.12	30.41	15.20	18.77	0.00	18.77	15.20
117.01	28.67	14.33	18.77	0.00	18.77	14.33
110.62	27.10	13.55	18.77	0.00	18.77	13.55
104.27	25.55	12.77	18.77	0.00	18.77	12.77
104.27	25.55	12.77	18.77	0.00	18.77	12.77
97.97	24.00	12.00	18.77	0.00	18.77	12.00
91.73	22.47	11.24	18.77	0.00	18.77	11.24
84.89	20.80	10.40	18.77	0.00	18.77	10.40
77.90	19.09	9.54	18.77	0.00	18.77	9.54
77.90	19.09	9.54	18.77	0.00	18.77	9.54
70.97	17.39	8.69	18.77	0.00	18.77	8.69
64.10	15.71	7.85	18.77	0.00	18.77	7.85
57.31	14.04	7.02	18.77	0.00	18.77	7.02
50.58	12.39	6.20	18.77	0.00	18.77	6.20
49.42	12.11	6.05	18.77	0.00	18.77	6.05
42.77	10.48	5.24	18.77	0.00	18.77	5.24
36.19	8.87	4.43	18.77	0.00	18.77	4.43
29.69	7.27	3.64	18.77	0.00	18.77	3.64
33.74	8.27	4.13	18.77	0.00	18.77	4.13
33.74	8.27	4.13	18.77	0.00	18.77	4.13
39.09	9.58	4.79	18.77	0.00	18.77	4.79
44.53	10.91	5.46	18.77	0.00	18.77	5.46
50.07	12.27	6.13	18.77	0.00	18.77	6.13
27.55	6.75	3.37	18.77	0.00	18.77	3.37
27.55	6.75	3.37	18.77	0.00	18.77	3.37
49.03	12.01	6.01	18.77	0.00	18.77	6.01
43.49	10.66	5.33	18.77	0.00	18.77	5.33
38.05	9.32	4.66	18.77	0.00	18.77	4.66
32.70	8.01	4.01	18.77	0.00	18.77	4.01
32.70	8.01	4.01	18.77	0.00	18.77	4.01
30.42	7.45	3.73	18.77	0.00	18.77	3.73
36.92	9.05	4.52	18.77	0.00	18.77	4.52
43.49	10.66	5.33	18.77	0.00	18.77	5.33
50.14	12.29	6.14	18.77	0.00	18.77	6.14
50.14	12.29	6.14	18.77	0.00	18.77	6.14
56.87	13.93	6.97	18.77	0.00	18.77	6.97
63.66	15.60	7.80	18.77	0.00	18.77	7.80
70.53	17.28	8.64	18.77	0.00	18.77	8.64
77.46	18.98	9.49	18.77	0.00	18.77	9.49
77.46	18.98	9.49	18.77	0.00	18.77	9.49
84.45	20.69	10.34	18.77	0.00	18.77	10.34
91.50	22.42	11.21	18.77	0.00	18.77	11.21
98.61	24.16	12.08	18.77	0.00	18.77	12.08
105.77	25.91	12.96	18.77	0.00	18.77	12.96
105.77	25.91	12.96	18.77	0.00	18.77	12.96
112.98	27.68	13.84	18.77	0.00	18.77	13.84
120.24	29.46	14.73	18.77	0.00	18.77	14.73
127.53	31.25	15.62	18.77	0.00	18.77	15.62
134.02	39.94	19.97	18.77	0.00	19.97	19.97
159.02	38.96	19.48	18.77	0.00	19.48	19.48
123.55	30.27	15.13	18.77	0.00	18.77	15.13
116.25	28.48	14.24	18.77	0.00	18.77	14.24
109.00	26.70	13.35	18.77	0.00	18.77	13.35
101.79	24.94	12.47	18.77	0.00	18.77	12.47
101.79	24.94	12.47	18.77	0.00	18.77	12.47
94.63	23.19	11.59	18.77	0.00	18.77	11.59
87.46	21.43	10.71	18.77	0.00	18.77	10.71
80.41	19.70	9.85	18.77	0.00	18.77	9.85
73.43	17.99	8.99	18.77	0.00	18.77	8.99
73.43	17.99	8.99	18.77	0.00	18.77	8.99
66.50	16.29	8.15	18.77	0.00	18.77	8.15
59.64	14.61	7.31	18.77	0.00	18.77	7.31
52.85	12.95	6.47	18.77	0.00	18.77	6.47
46.13	11.30	5.65	18.77	0.00	18.77	5.65
44.96	11.02	5.51	18.77	0.00	18.77	5.51
38.31	9.39	4.69	18.77	0.00	18.77	4.69
31.74	7.78	3.89	18.77	0.00	18.77	3.89
25.25	6.19	3.09	18.77	0.00	18.77	3.09
28.66	7.02	3.51	18.77	0.00	18.77	3.51
28.66	7.02	3.51	18.77	0.00	18.77	3.51
34.23	8.39	4.19	18.77	0.00	18.77	4.19
39.89	9.77	4.89	18.77	0.00	18.77	4.89
45.64	11.18	5.59	18.77	0.00	18.77	5.59
23.34	5.72	2.86	18.77	0.00	18.77	2.86
23.34	5.72	2.86	18.77	0.00	18.77	2.86
44.54	10.91	5.46	18.77	0.00	18.77	5.46
38.80	9.51	4.75	18.77	0.00	18.77	4.75
33.14	8.12	4.06	18.77	0.00	18.77	4.06
27.58	6.76	3.38	18.77	0.00	18.77	3.38
27.58	6.76	3.38	18.77	0.00	18.77	3.38
26.38	6.46	3.23	18.77	0.00	18.77	3.23
32.88	8.06	4.03	18.77	0.00	18.77	4.03
39.45	9.67	4.83	18.77	0.00	18.77	4.83
46.10	11.30	5.65	18.77	0.00	18.77	5.65
46.10	11.30	5.65	18.77	0.00	18.77	5.65
52.83	12.94	6.47	18.77	0.00	18.77	6.47
59.62	14.61	7.30	18.77	0.00	18.77	7.30
66.49	16.29	8.14	18.77	0.00	18.77	8.14
73.42	17.99	8.99	18.77	0.00	18.77	8.99
73.42	17.99	8.99	18.77	0.00	18.77	8.99
80.41	19.70	9.85	18.77	0.00	18.77	9.85
87.46	21.43	10.71	18.77	0.00	18.77	10.71
94.57	23.17	11.58	18.77	0.00	18.77	11.58
101.73	24.92	12.46	18.77	0.00	18.77	12.46
101.73	24.92	12.46	18.77	0.00	18.77	12.46
108.94	26.69	13.34	18.77	0.00	18.77	13.34
116.19	28.47	14.23	18.77	0.00	18.77	14.23
123.49	30.25	15.13	18.77	0.00	18.77	15.13

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC 8 PILA
I	20 008	24.9687
ys	1 495	1 754
yi	2 505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE VOLADIZO EN ZONA EXTERIOR

CARACT. RASANTE

M est (S1)=	0.57
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.029
Canto sec=	0.33

ARMADO DE VOLADIZO JUNTO AL ALMA

CARACT. RASANTE

M est (S2)=	1.38
Inercia XX =	20.0
fyd cercos =	40816
cotg tetha =	1
K rasant =	0.069
Canto sec=	0.33

ARMADO DE CORTANTE MÁXIMO

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	ARMADO DEFINITIV As ext	As int
VANO 21	0.00	1 00	2295 31	303 03	1698.01	1721 99	65 91	16.15	8.07	5.18	0.00	8 07	8.07
VANO 21	1.20	2 00	1780 31	286.39	1634.34	1637.62	51.12	12.53	6.26	5.18	0.00	6.26	6.26
VANO 21	2.40	3 00	1674.38	269 99	1572 62	1553.13	48.08	11.78	5.89	5.18	0.00	5.89	5.89
VANO 21	3.60	4 00	1569.07	253.81	1512.87	1468.50	45.06	11.04	5.52	5.18	0.00	5.52	5.52
VANO 21	4.80	5 00	1464.42	237.86	1455 07	1383.75	42.05	10 30	5.15	5.18	0.00	5.18	5.15
VANO 21	4.80	6 00	1464.42	237.86	1455.07	1383 75	42.05	10.30	5.15	5.18	0.00	5.18	5.15
VANO 21	6.00	7 00	1360.51	222 14	1399.24	1298 88	39 07	9.57	4.79	5.18	0.00	5.18	4.79
VANO 21	7.20	8 00	1257.38	206.65	1345.36	1213 90	36.11	8.85	4.42	5.18	0.00	5.18	4.42
VANO 21	8.40	9 00	1155 08	196.47	1293.44	1128 80	33.17	8.13	4.06	5.18	0.00	5.18	4.06
VANO 21	9.60	10.00	1053 66	206.80	1243.48	1043 59	30 26	7.41	3.71	5.18	0.00	5.18	3.71
VANO 21	9.60	11 00	1053.66	206.80	1243 48	1043 59	30.26	7.41	3.71	5.18	0.00	5.18	3.71
VANO 21	10.80	12 00	953.16	217.13	1195 48	958.29	27.37	6.71	3.35	5.18	0.00	5.18	3.35
VANO 21	12.00	13 00	853.63	227 45	1162.21	852 42	24.51	6.01	3.00	5.18	0.00	5.18	3.00
VANO 21	13.20	14 00	755.10	237.78	1162 23	795.61	21.68	5 31	2.66	5.18	0.00	5.18	2.66
VANO 21	14.40	15.00	657.62	248.11	1164.98	709.15	18.88	4.63	2.31	5.18	0.00	5.18	2.31
VANO 21	14.40	16.00	640 68	248.11	1164.98	692 21	18.40	4.51	2.25	5.18	0.00	5.18	2.25
VANO 21	15.60	17.00	544.28	258.43	1169.74	605 67	15 63	3.83	1.91	5.18	0.00	5.18	1.91
VANO 21	16.80	18.00	448 99	268.76	1176.50	519.08	12.89	3.16	1.58	5.18	0.00	5.18	1.58
VANO 21	18.00	19.00	354.85	279.09	1188 15	432.44	10.19	2.50	1.25	5.18	0.00	5.18	1.25
VANO 21	19.20	20.00	390.69	368.44	1206.84	345.75	11.22	2.75	1.37	5.18	0.00	5.18	1.37
VANO 21	19.20	21.00	390.69	368.44	1206.84	345.75	11 22	2.75	1.37	5.18	0.00	5.18	1.37
VANO 21	20.40	22.00	468.48	375.14	1236 59	259.02	13.45	3.30	1.65	5.18	0.00	5.18	1.65
VANO 21	21.60	23.00	550 77	397.31	1268.51	172.27	15 82	3.87	1.94	5.18	0.00	5.18	1.94
VANO 21	22.80	24.00	634.38	419.76	1302.59	85.51	18.22	4.46	2.23	5.18	0.00	5.18	2.23
VANO 21	24.00	25.00	311.70	330.72	1338.84	3.64	8.95	2.19	1.10	5.18	0.00	5.18	1.10
VANO 21	24.00	26.00	311.70	330.72	1338.84	3.64	8.95	2.19	1.10	5.18	0.00	5.18	1.10
VANO 21	25.20	27.00	635.47	341.05	1377.24	87.22	18.25	4.47	2.24	5.18	0.00	5.18	2.24
VANO 21	26.40	28.00	552.24	361.32	1417.60	173.08	15.86	3.89	1.94	5.18	0.00	5.18	1.94
VANO 21	27.60	29.00	470 33	383.04	1460 53	258.91	13.51	3.31	1.65	5.18	0.00	5.18	1.65
VANO 21	28.80	30.00	390.28	372.03	1505.42	344.70	11.21	2.75	1.37	5.18	0.00	5.18	1.37
VANO 21	28.80	31.00	390 28	372.03	1505.42	344.70	11.21	2.75	1.37	5.18	0.00	5.18	1.37
VANO 21	30.00	32.00	355.65	560.21	1552.46	430.46	10.21	2.50	1.25	5.18	0.00	5.18	1.25
VANO 21	31.20	33.00	450.15	584.33	1601.57	516.16	12.93	3.17	1.58	5.18	0.00	5.18	1.58
VANO 21	32.40	34.00	545.77	608.68	1652.62	601.80	15.67	3.84	1.92	5.18	0.00	5.18	1.92
VANO 21	33.60	35.00	642.48	633.26	1705.63	687.38	18.45	4.52	2.26	5.18	0.00	5.18	2.26
VANO 21	33.60	36.00	642.48	633.26	1705.63	687.38	18.45	4.52	2.26	5.18	0.00	5.18	2.26
VANO 21	34.80	37.00	740.26	658.07	1760.59	772.87	21.26	5.21	2.60	5.18	0.00	5.18	2.60
VANO 21	36.00	38.00	839 06	683 11	1817.51	858.28	24.09	5.90	2.95	5.18	0.00	5.18	2.95
VANO 21	37.20	39.00	938.84	708 38	1876.37	943.60	26.96	6.61	3.30	5.18	0.00	5.18	3.30
VANO 21	38.40	40.00	1039.57	733.88	1937.19	1028.81	29.85	7.31	3.66	5.18	0.00	5.18	3.66
VANO 21	38.40	41 00	1039.57	733.88	1937.19	1028.81	29.85	7.31	3.66	5.18	0.00	5.18	3.66
VANO 21	39.60	42.00	1141 20	759.61	1999.96	1113.92	32 77	8.03	4.01	5.18	0.00	5.18	4.01
VANO 21	40.80	43.00	1243 68	785.57	2064.68	1198.92	35.71	8.75	4.37	5.18	0.00	5.18	4.37
VANO 21	42.00	44.00	1346.97	811.75	2131.36	1283.80	38.68	9.48	4.74	5.18	0.00	5.18	4.74
VANO 21	43.20	45.00	1451.01	838.17	2199.98	1368.55	41.67	10.21	5.10	5.18	0.00	5.18	5.10
VANO 21	43.20	46.00	1451.01	838.17	2199.98	1368.55	41 67	10.21	5.10	5.18	0.00	5.18	5.10
VANO 21	44.40	47.00	1555.74	864.82	2270.56	1453.17	44.67	10.95	5.47	5.18	0.00	5.47	5.47
VANO 21	45.60	48.00	1661.12	891.69	2343.09	1537.67	47.70	11.69	5.84	5.18	0.00	5.84	5.84
VANO 21	46.80	49.00	1767.08	918.80	2417.56	1622.02	50.74	12.43	6.22	5.18	0.00	6.22	6.22
VANO 22	0.00	1 00	2209.25	452.93	1436 54	1777.55	63 44	15.54	7.77	5.18	0 00	7.77	7.77
VANO 22	0.98	2 00	1775.04	461 26	1424 01	1708.04	50.97	12.49	6.24	5.18	0.00	6 24	6.24
VANO 22	1 95	3 00	1688 21	469 59	1413.15	1638 41	48 48	11.88	5.94	5.18	0 00	5.94	5.94
VANO 22	2.93	4.00	1601 72	477.91	1403 95	1568 67	45 99	11.27	5.63	5.18	0 00	5.63	5.63
VANO 22	3.90	5 00	1515.59	486 24	1396 44	1498 82	43 52	10 66	5.33	5.18	0 00	5.33	5.33
VANO 22	3.90	6.00	1515 59	486 24	1396 44	1498 82	43 52	10 66	5.33	5.18	0.00	5.33	5.33
VANO 22	4 88	7.00	1429 87	494.57	1392 92	1428.85	41 06	10 06	5.03	5.18	0.00	5.18	5.03
VANO 22	5.85	8 00	1344 58	502 90	1391.06	1358.78	38.61	9.46	4.73	5.18	0.00	5.18	4.73
VANO 22	6 83	9.00	1259.74	511.23	1390.86	1288.59	36 17	8 86	4.43	5.18	0.00	5.18	4.43
VANO 22	7.80	10 00	1175.38	519.55	1392.33	1218 29	33 75	8 27	4.13	5.18	0.00	5.18	4.13
VANO 22	7 80	11 00	1175 38	519 55	1392.33	1218 29	33 75	8.27	4.13	5.18	0.00	5.18	4.13
VANO 22	8.78	12.00	1091 54	527 88	1405 78	1147 89	31 34	7.68	3 84	5.18	0.00	5.18	3.84
VANO 22	9.75	13 00	1008 29	536 21	1421 79	1077.40	28 95	7.09	3.55	5.18	0.00	5.18	3.55
VANO 22	10.73	14 00	925.80	544 54	1439.61	1006.92	26.58	6.51	3.26	5.18	0.00	5.18	3.26
VANO 22	11.70	15 00	844 11	552.87	1459.23	936.43	24 24	5.94	2.97	5.18	0.00	5.18	2.97
VANO 22	11.70	16.00	844.11	552 87	1459 23	936.43	24.24	5.94	2.97	5.18	0 00	5.18	2.97
VANO 22	12.68	17.00	763.24	561.19	1480.65	865.94	21.92	5.37	2.68	5.18	0.00	5.18	2.68
VANO 22	13.65	18.00	683.20	574.55	1503.89	795.46	19.62	4.81	2.40	5.18	0.00	5.18	2.40
VANO 22	14.63	19.00	604.03	593.27	1528.92	724 97	17.34	4.25	2.12	5.18	0.00	5.18	2.12
VANO 22	15.60	20.00	525.73	611 77	1555.77	654 50	15.10	3.70	1.85	5.18	0.00	5.18	1.85
VANO 22	15.60	21.00	525 73	611.77	1555.77	654.50	15 10	3.70	1.85	5.18	0.00	5.18	1.85
VANO 22	16.58	22.00	448.34	630.03	1584.42	584.03	12.87	3.15	1.58	5.18	0.00	5.18	1.58
VANO 22	17.55	23.00	371.88	648.06	1614.88	513.57	10.68	2.62	1.31	5.18	0.00	5.18	1.31
VANO 22	18.53	24.00	296.35	665.86	1647.15	443.12	8.51	2.08	1.04	5.18	0.00	5.18	1.04
VANO 22	19.50	25.00	323.80	746.69	1681.22	372.69	9.30	2.28	1.14	5.18	0.00	5.18	1.14
VANO 22	19 50	26.00	323.80	746 69	1681.22	372.69	9 30	2.28	1.14	5.18	0.00	5.18	1.14
VANO 22	20.48	27.00	386 36	744 04	1717.09	302 27	11 09	2.72	1.36	5.18	0.00	5.18	1.36
VANO 22	21.45	28.00	451.29	750.66	1754 78	231.87	12.96	3.17	1.59	5.18	0.00	5.18	1.59
VANO 22	22.43	29.00	351.06	734.72	1794.27	161 49	10 08	2.47	1.23	5.18	0.00	5.18	1.23
VANO 22	23.40	30.00	703.55	751.35	1835.57	91.13	20.20	4.95	2.47	5.18	0.00	5.18	2.47
VANO 22	23.40	31.00	686.61	751.35	1835.57	74.19	19.72	4.83	2.42	5.18	0.00	5.18	2.42
VANO 22	24.38	32.00	617.19	767.75	1878.67	14.17	17.72	4.34	2.17	5.18	0.00	5.18	2.17
VANO 22	25.35	33.00	550.16	783.92	1923.58	65.66	15.80	3.87	1.94	5.18	0.00	5.18	1.94
VANO 22	26.33	34.00	486.82	705.22	1970.30	135 20	13.98	3.42	1.71	5.18	0.00	5.18	1.71
VANO 22	27.30	35 00	425.53	717.40	2018.82	204.71	12.22	2.99	1.50	5.18	0.00	5.18	1.50
VANO 22	27.30	36.00	425.53	717.40	2018.82	204.71	12.22	2.99	1.50	5.18	0.00	5.18	1.50
VANO 22	28.28	37.00	364.89	729.38	2069.15	274 19	10.48	2.57	1.28	5.18	0.00	5.18	1.28
VANO 22	29.25	38.00	304.91	741.17	2121.29	343.63	8.76	2.15	1.07	5.18	0.00	5.18	1.07
VANO 22	30.23	39.00	350.29	1002.05	2175.22	413.02	10.06	2.46	1.23	5.18	0.00	5.18	1.23
VANO 22	31.20	40.00	429.93	1023.59	2230.85	482.37	12.35	3.02	1.51	5.18	0.00	5.18	1.51
VANO 22	31.20	41 00	429.93	1023.59	2230.85	482.37	12.35	3.02	1.51	5.18	0.00	5.18	1.51
VANO 22	32.18	42.00	510.60	1045.32	2288.11	551.68	14.66	3.59	1.80	5.18	0.00	5.18	1.80
VANO 22	33.15	43.00	592 29	1067 25	2347.00	620.93	17.01	4.17	2.08	5.18	0.00	5.18	2.08
VANO 22	34.13	44 00	675.00	1089.36	2407 53	690.13	19.38	4.75	2.37	5.18	0.00	5.18	2.37
VANO 22	35.10	45.00	758.73	1111.67	2469.70	759.28	21.79	5.34	2.67	5.18	0.00	5.18	2.67
VANO 22	35.10	46.00	982.91	1111.67	2469.70	983.47	28 22	6.92	3.46	5.18	0.00	5.18	3.46
VANO 22	36.08	47.00	1067.66	1134.16	2533.50	1052.55	30.66	7.51	3.76	5.18	0.00	5.18	3.76
VANO 22	37.05	48.00	1153.42	1156.85	2598.94	1121.58	33.12	8.11	4.06	5.18	0.00	5.18	4.06
VANO 22	38.03	49.00	1240.19	1179.72	2666.13	1190.57	35.61	8.73	4.36	5.18	0.00	5.18	4.36

ARMADO DE CORTANTE MÁXIMO

Us (t)	Dos caras As ras/m	Una cara As (Rd)	FLEXIÓN TRANS As ext-sup	As int-inf	ARMADO DEFINITIV As ext	As int
158.14	38.74	19.37	18.77	0.00	19.37	19.37
122.66	30.05	15.03	18.77	0.00	18.77	15.03
115.36	28.26	14.13	18.77	0.00	18.77	14.13
108.10	26.48	13.24	18.77	0.00	18.77	13.24
100.89	24.72	12.36	18.77	0.00	18.77	12.36
100.89	24.72	12.36	18.77	0.00	18.77	12.36
93.73	22.96	11.48	18.77	0.00	18.77	11.48
86.63	21.22	10.61	18.77	0.00	18.77	10.61
79.58	19.50	9.75	18.77	0.00	18.77	9.75
72.59	17.79	8.89	18.77	0.00	18.77	8.89
72.59	17.79	8.89	18.77	0.00	18.77	8.89
65.67	16.09	8.04	18.77	0.00	18.77	8.04
58.81	14.41	7.20	18.77	0.00	18.77	7.20
52.02	12.75	6.37	18.77	0.00	18.77	6.37
45.31	11.10	5.55	18.77	0.00	18.77	5.55
44.14	10.81	5.41	18.77	0.00	18.77	5.41
37.50	9.19	4.59	18.77	0.00	18.77	4.59
30.93	7.58	3.79	18.77	0.00	18.77	3.79
24.45	5.99	2.99	18.77	0.00	18.77	2.99
26.92	6.59	3.30	18.77	0.00	18.77	3.30
26.92	6.59	3.30	18.77	0.00	18.77	3.30
32.28	7.91	3.95	18.77	0.00	18.77	3.95
37.95	9.30	4.65	18.77	0.00	18.77	4.65
43.71	10.71	5.35	18.77	0.00	18.77	5.35
21.47	5.26	2.63	18.77	0.00	18.77	2.63
21.47	5.26	2.63	18.77	0.00	18.77	2.63
43.78	10.73	5.36	18.77	0.00	18.77	5.36
38.05	9.32	4.66	18.77	0.00	18.77	4.66
32.40	7.94	3.97	18.77	0.00	18.77	3.97
26.89	6.59	3.29	18.77	0.00	18.77	3.29
26.89	6.59	3.29	18.77	0.00	18.77	3.29
24.50	6.00	3.00	18.77	0.00	18.77	3.00
31.01	7.60	3.80	18.77	0.00	18.77	3.80
37.60	9.21	4.61	18.77	0.00	18.77	4.61
44.26	10.84	5.42	18.77	0.00	18.77	5.42
44.26	10.84	5.42	18.77	0.00	18.77	5.42
51.00	12.50	6.25	18.77	0.00	18.77	6.25
57.81	14.16	7.08	18.77	0.00	18.77	7.08
64.68	15.85	7.92	18.77	0.00	18.77	7.92
71.62	17.55	8.77	18.77	0.00	18.77	8.77
71.62	17.55	8.77	18.77	0.00	18.77	8.77
78.62	19.26	9.63	18.77	0.00	18.77	9.63
85.68	20.99	10.50	18.77	0.00	18.77	10.50
92.80	22.74	11.37	18.77	0.00	18.77	11.37
99.97	24.49	12.25	18.77	0.00	18.77	12.25
99.97	24.49	12.25	18.77	0.00	18.77	12.25
107.18	26.26	13.13	18.77	0.00	18.77	13.13
114.44	28.04	14.02	18.77	0.00	18.77	14.02
121.74	29.83	14.91	18.77	0.00	18.77	14.91
152.21	37.29	18.65	18.77	0.00	18.77	18.65
122.29	29.96	14.98	18.77	0.00	18.77	14.98
116.31	28.50	14.25	18.77	0.00	18.77	14.25
110.35	27.04	13.52	18.77	0.00	18.77	13.52
104.42	25.58	12.79	18.77	0.00	18.77	12.79
104.42	25.58	12.79	18.77	0.00	18.77	12.79
98.51	24.14	12.07	18.77	0.00	18.77	12.07
92.64	22.70	11.35	18.77	0.00	18.77	11.35
86.79	21.26	10.63	18.77	0.00	18.77	10.63
80.98	19.84	9.92	18.77	0.00	18.77	9.92
80.98	19.84	9.92	18.77	0.00	18.77	9.92
75.20	18.42	9.21	18.77	0.00	18.77	9.21
69.47	17.02	8.51	18.77	0.00	18.77	8.51
63.78	15.63	7.81	18.77	0.00	18.77	7.81
58.16	14.25	7.12	18.77	0.00	18.77	7.12
58.16	14.25	7.12	18.77	0.00	18.77	7.12
52.58	12.88	6.44	18.77	0.00	18.77	6.44
47.07	11.53	5.77	18.77	0.00	18.77	5.77
41.61	10.20	5.10	18.77	0.00	18.77	5.10
36.22	8.87	4.44	18.77	0.00	18.77	4.44
36.22	8.87	4.44	18.77	0.00	18.77	4.44
30.89	7.57	3.78	18.77	0.00	18.77	3.78
25.62	6.28	3.14	18.77	0.00	18.77	3.14
20.42	5.00	2.50	18.77	0.00	18.77	2.50
22.31	5.47	2.73	18.77	0.00	18.77	2.73
22.31	5.47	2.73	18.77	0.00	18.77	2.73
26.62	6.52	3.26	18.77	0.00	18.77	3.26
31.09	7.62	3.81	18.77	0.00	18.77	3.81
24.19	5.93	2.96	18.77	0.00	18.77	2.96
48.47	11.88	5.94	18.77	0.00	18.77	5.94
47.30	11.59	5.79	18.77	0.00	18.77	5.79
42.52	10.42	5.21	18.77	0.00	18.77	5.21
37.90	9.29	4.64	18.77	0.00	18.77	4.64
33.54	8.22	4.11	18.77	0.00	18.77	4.11
29.32	7.18	3.59	18.77	0.00	18.77	3.59
29.32	7.18	3.59	18.77	0.00	18.77	3.59
25.14	6.16	3.08	18.77	0.00	18.77	3.08
21.01	5.15	2.57	18.77	0.00	18.77	2.57
24.13	5.91	2.96	18.77	0.00	18.77	2.96
29.62	7.26	3.63	18.77	0.00	18.77	3.63
29.62	7.26	3.63	18.77	0.00	18.77	3.63
35.16	8.62	4.31	18.77	0.00	18.77	4.31
40.81	10.00	5.00	18.77	0.00	18.77	5.00
46.50	11.39	5.70	18.77	0.00	18.77	5.70
52.27	12.81	6.40	18.77	0.00	18.77	6.40
67.72	16.59	8.30	18.77	0.00	18.77	8.30
73.56	18.02	9.01	18.77	0.00	18.77	9.01
79.47	19.47	9.73	18.77	0.00	18.77	9.73
85.44	20.93	10.47	18.77	0.00	18.77	10.47

Esfuerzos cortantes de cálculo

RESUMEN DE ESFUERZOS CORTANTES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

MULTIPLICADOR(Perdidas x Coef.Seg)

		1	1	1	0.6	0.6	0.6			0.84	0.80	0.80				
		CARGAS	POSITIVOS Envolv	NEGATIVOS Envolv	POSITIV	NEGATIV				CORTANTE Pret	CORTANTE Pret	CORTANTE Pret	ESFUERZOS MAYORADOS CORTANT	CORTANT	CORT +	CORT -	ESFUERZO DE CÁLCULO	
VANO 1	0.00	-537.86	71.90	-499.46	0.00	0.00	-18.07	1.00	0.00	-38.43	0.00	0.00	660.96	1536.07	493.20	865.68	1536.1	865.7
VANO 1	0.98	-502.64	72.02	-472.63	18.01	-27.98	-18.07	2.00	0.98	292.90	0.00	0.00	218.08	1122.11	484.58	842.66	1122.1	842.7
VANO 1	1.95	-467.43	72.38	-446.47	18.01	-27.98	-18.07	3.00	1.95	292.90	0.00	0.00	170.00	1035.33	475.26	819.83	1035.3	819.8
VANO 1	2.93	-432.22	72.99	-420.98	18.01	-27.98	-18.07	4.00	2.93	292.90	0.00	0.00	121.56	949.57	465.25	797.20	949.6	797.2
VANO 1	3.90	-397.01	73.83	-396.17	18.01	-27.98	-18.07	5.00	3.90	292.90	0.00	0.00	72.76	864.82	454.55	774.77	864.8	774.8
VANO 1	3.90	-397.01	73.83	-396.17	18.01	-27.98	-18.07	6.00	3.90	292.90	0.00	0.00	72.76	864.82	454.55	774.77	864.8	774.8
VANO 1	4.88	-361.80	74.91	-372.05	18.01	-27.98	-18.07	7.00	4.88	292.90	0.00	0.00	23.60	781.09	443.16	752.53	781.1	752.5
VANO 1	5.85	-326.58	77.67	-348.60	18.01	-27.98	-18.07	8.00	5.85	292.90	0.00	0.00	28.08	698.39	430.66	730.48	698.4	730.5
VANO 1	6.83	-291.37	83.41	-325.84	18.01	-27.98	-18.07	9.00	6.83	292.90	0.00	0.00	84.21	616.71	452.96	708.64	616.7	708.6
VANO 1	7.80	-256.16	90.37	-303.75	18.01	-27.98	-18.07	10.00	7.80	292.90	0.00	0.00	142.19	536.05	441.76	686.98	536.0	687.0
VANO 1	7.80	-256.16	90.37	-303.75	18.01	-27.98	-18.07	11.00	7.80	292.90	0.00	0.00	142.19	536.05	441.76	686.98	536.0	687.0
VANO 1	8.78	-220.95	97.79	-282.35	18.01	-27.98	-18.07	12.00	8.78	292.90	0.00	0.00	200.85	456.41	430.37	665.53	456.4	665.5
VANO 1	9.75	-185.73	105.65	-261.64	18.01	-27.98	-18.07	13.00	9.75	292.90	0.00	0.00	260.19	377.80	418.77	644.15	377.8	644.1
VANO 1	10.73	-150.52	113.97	-241.65	18.01	-27.98	-18.07	14.00	10.73	292.90	0.00	0.00	320.20	300.28	406.97	622.86	320.2	407.0
VANO 1	11.70	-115.31	122.72	-222.39	18.01	-27.98	-18.07	15.00	11.70	292.90	0.00	0.00	380.86	223.85	394.96	601.81	380.9	395.0
VANO 1	11.70	-102.76	122.72	-222.39	18.01	-27.98	-18.07	16.00	11.70	292.90	0.00	0.00	397.80	206.91	394.96	601.81	397.8	395.0
VANO 1	12.68	-67.55	131.90	-203.85	18.01	-27.98	-18.07	17.00	12.68	292.90	0.00	0.00	459.12	131.57	382.76	581.00	459.1	382.8
VANO 1	13.65	-32.34	142.73	-186.18	18.01	-27.98	-18.07	18.00	13.65	292.90	0.00	0.00	522.90	57.52	446.83	437.84	522.9	446.8
VANO 1	14.63	2.88	155.75	-171.08	18.01	-27.98	-18.07	19.00	14.63	292.90	0.00	0.00	589.95	12.67	430.65	428.04	590.0	430.6
VANO 1	15.60	38.09	170.39	-157.53	18.01	-27.98	-18.07	20.00	15.60	292.90	0.00	0.00	659.46	80.53	414.23	421.94	659.5	414.2
VANO 1	15.60	38.09	170.39	-157.53	18.01	-27.98	-18.07	21.00	15.60	292.90	0.00	0.00	659.46	80.53	414.23	421.94	659.5	414.2
VANO 1	16.58	73.30	185.77	-144.67	18.01	-27.98	-18.07	22.00	16.58	-38.43	0.00	0.00	361.92	220.79	397.57	415.62	361.9	397.6
VANO 1	17.55	108.51	201.83	-132.45	18.01	-27.98	-18.07	23.00	17.55	-300.82	0.00	0.00	142.01	446.47	380.67	409.06	446.5	409.1
VANO 1	18.53	143.72	218.58	-120.88	18.01	-27.98	-18.07	24.00	18.53	-300.82	0.00	0.00	214.64	381.57	363.53	402.28	381.6	402.3
VANO 1	19.50	178.94	235.96	-111.35	18.01	-27.98	-18.07	25.00	19.50	-300.82	0.00	0.00	288.27	319.75	346.15	426.88	319.7	426.9
VANO 1	19.50	178.94	235.96	-111.35	18.01	-27.98	-18.07	26.00	19.50	-300.82	0.00	0.00	288.27	319.75	346.15	426.88	319.7	426.9
VANO 1	20.48	214.15	254.00	-102.36	18.01	-27.98	-18.07	27.00	20.48	-300.82	0.00	0.00	362.87	258.72	328.54	411.99	362.9	328.5
VANO 1	21.45	249.36	272.69	-93.83	18.01	-27.98	-18.07	28.00	21.45	-300.82	0.00	0.00	438.44	198.39	310.68	397.29	439.4	310.7
VANO 1	22.43	284.57	292.00	-85.75	18.01	-27.98	-18.07	29.00	22.43	-300.82	0.00	0.00	514.94	138.74	292.59	382.80	514.9	292.6
VANO 1	23.40	319.79	311.93	-78.13	18.01	-27.98	-18.07	30.00	23.40	-300.82	0.00	0.00	592.37	79.77	282.16	368.50	592.4	282.2
VANO 1	23.40	319.79	311.93	-78.13	18.01	-27.98	-18.07	31.00	23.40	-300.82	0.00	0.00	592.37	79.77	282.16	368.50	592.4	282.2
VANO 1	24.38	355.00	332.46	-70.95	18.01	-27.98	-18.07	32.00	24.38	-300.82	0.00	0.00	670.70	21.46	273.91	354.41	670.7	273.9
VANO 1	25.35	390.21	353.58	-64.21	18.01	-27.98	-18.07	33.00	25.35	-300.82	0.00	0.00	749.92	36.18	265.66	340.52	749.9	265.7
VANO 1	26.33	425.42	375.27	-57.91	18.01	-27.98	-18.07	34.00	26.33	-300.82	0.00	0.00	830.00	93.18	257.41	326.84	830.0	257.4
VANO 1	27.30	460.63	397.53	-52.03	18.01	-27.98	-18.07	35.00	27.30	-300.82	0.00	0.00	910.92	149.53	249.16	313.35	910.9	249.2
VANO 1	27.30	460.63	397.53	-52.03	18.01	-27.98	-18.07	36.00	27.30	-300.82	0.00	0.00	910.92	149.53	249.16	313.35	910.9	249.2
VANO 1	28.28	495.85	420.33	-46.57	18.01	-27.98	-18.07	37.00	28.28	-300.82	0.00	0.00	992.65	205.26	240.91	300.06	992.7	240.9
VANO 1	29.25	531.06	443.65	-41.52	18.01	-27.98	-18.07	38.00	29.25	-300.82	0.00	0.00	1075.18	260.36	232.66	286.98	1075.2	232.7
VANO 1	30.23	566.27	467.49	-36.88	18.01	-27.98	-18.07	39.00	30.23	-300.82	0.00	0.00	1158.47	314.87	224.41	274.10	1158.5	224.4
VANO 1	31.20	601.48	491.73	-32.63	18.01	-27.98	-18.07	40.00	31.20	-300.82	0.00	0.00	1242.36	368.77	216.16	261.42	1242.4	216.2
VANO 1	31.20	601.48	491.73	-32.63	18.01	-27.98	-18.07	41.00	31.20	-300.82	0.00	0.00	1242.36	368.77	216.16	261.42	1242.4	216.2
VANO 1	32.18	636.69	516.30	-28.77	18.01	-27.98	-18.07	42.00	32.18	-300.82	0.00	0.00	1326.78	422.10	207.91	248.94	1326.8	207.9
VANO 1	33.16	671.91	541.20	-25.29	18.01	-27.98	-18.07	43.00	33.15	-300.82	0.00	0.00	1411.64	474.86	199.66	236.66	1411.6	199.7
VANO 1	34.13	707.12	566.40	-22.15	18.01	-27.98	-18.07	44.00	34.13	-300.82	0.00	0.00	1496.98	527.10	191.41	225.11	1497.0	191.4
VANO 1	35.10	742.33	591.89	-19.77	18.01	-27.98	-18.07	45.00	35.10	-300.82	0.00	0.00	1582.75	578.22	183.16	239.18	1582.7	183.2
VANO 1	35.10	742.33	591.89	-19.77	18.01	-27.98	-18.07	46.00	35.10	-300.82	0.00	0.00	1582.75	578.22	183.16	239.18	1582.7	183.2
VANO 1	36.08	777.54	617.64	-18.85	18.01	-27.98	-18.07	47.00	36.08	-300.82	0.00	0.00	1668.91	627.13	174.91	195.11	1668.9	174.9
VANO 1	37.05	812.76	643.64	-18.55	18.01	-27.98	-18.07	48.00	37.05	-300.82	0.00	0.00	1755.45	675.12	173.02	180.70	1755.4	173.0
VANO 1	38.03	847.97	669.86	-18.36	18.01	-27.98	-18.07	49.00	38.03	-300.82	0.00	0.00	1842.32	722.94	166.35	166.97	1842.3	166.3
VANO 2	0.00	-874.78	71.64	-743.81	36.95	-37.52	3.51	1.00	0.00	-3.44	0.00	0.00	1016.62	2356.78	247.31	617.61	2356.8	617.6
VANO 2	1.20	-831.44	71.77	-711.78	36.95	-37.52	3.51	2.00	1.20	364.23	0.00	0.00	549.41	1841.70	233.90	590.63	1841.7	590.8
VANO 2	2.40	-788.10	72.05	-680.09	36.95	-37.52	3.51	3.00	2.40	364.23	0.00	0.00	490.48	1735.66	222.54	563.88	1735.7	563.9
VANO 2	3.60	-744.77	72.50	-648.79	36.95	-37.52	3.51	4.00	3.60	364.23	0.00	0.00	431.30	1630.21	212.56	537.37	1630.2	537.4
VANO 2	4.80	-701.43	73.14	-617.93	36.95	-37.52	3.51	5.00	4.80	364.23	0.00	0.00	371.83	1525.41	202.57	511.09	1525.4	511.1
VANO 2	4.80	-701.43	73.14	-617.93	36.95	-37.52	3.51	6.00	4.80	364.23	0.00	0.00	371.83	1525.41	202.57	511.09	1525.4	511.1
VANO 2	6.00	-658.09	73.97	-587.53	36.95	-37.52	3.51	7.00	6.00	364.23	0.00	0.00	312.08	1421.30	192.59	485.04	1421.3	485.0
VANO 2	7.20	-614.75	75.01	-557.63	36.95	-37.52	3.51	8.00	7.20	364.23	0.00	0.00	252.02	1317.95	182.61	459.23	1317.9	459.2
VANO 2	8.40	-571.41	76.87	-528.27	36.95	-37.52	3.51	9.00	8.40	364.23	0.00	0.00	190.72	1215.41	172.63	433.66	1215.4	433.7
VANO 2	9.60	-528.08	80.99	-499.49	36.95	-37.52	3.51	10.00	9.60	364.23	0.00	0.00	126.03	1113.72	162.65	408.32	1113.7	408.3
VANO 2	9.60	-528.08	80.99	-499.49	36.95	-37.52	3.51	11.00	9.60	364.23	0.00	0.00	126.03	1113.72	162.65	408.32	1113.7	408.3
VANO 2	10.80	-484.74	86.95	-471.30	36.95	-37.52	3.51	12.00	10.80	364.23	0.00	0.00	58.59	1012.94	152.67	383.22	1012.9	383.2
VANO 2	12.00	-441.40	93.48	-443.75	36.95	-37.52	3.51	13.00	12.00	364.23	0.00	0.00	9.72	913.11	142.68	358.35	913.1	358.4
VANO 2	13.20	-398.06	100.60	-416.86	36.95	-37.52	3.51	14.00	13.20	364.23	0.00	0.00	78.90	814.27	132.70	333.72	814.3	333.7
VANO 2	14.40	-354.72	108.31	-390.66	36.95	-37.52	3.51	15.00	14.40	364.23	0.00	0.00	148.97	716.46	122.72	309.32	716.5	309.3
VANO 2	14.40	-342.17	108.31	-390.66	36.95	-37.52	3.51	16.00	14.40	364.23	0.00	0.00	165.92	699.51	122.72	309.32	699.5	309.3
VANO 2	15.60	-298.84	116.61	-365.17	36.95	-37.52	3.51	17.00	15.60	364.23	0.00	0.00	236.88	602.77	112.74	285.15	602.8	285.2
VANO 2	16.80	-255.50	125.52	-340.41	36.95	-37.52	3.51	18.00	16.80	364.23	0.00	0.00	308.73	507.13	102.76	261.23	507.1	261.2
VANO 2	18.00	-212.16	135.01	-316.41	36.95	-37.52	3.51	19.00	18.00	364.23	0.00	0.00	381.49	412.61	92.78	237.53	412.6	237.5
VANO 2	19.20	-168.82	145.11	-293.20	36.95	-37.52	3.51	20.00	19.20	364.23	0.00	0.00	455.14	319.30	82.80	213.95	455.1	82.8
VANO 2	19.20	-168.82	145.11	-293.20	36.95	-37.52	3.51	21.00	19.20	364.23	0.00	0.00	455.14	319.30	82.80	213.95	455.1	82.8
VANO 2	20.40	-125.48	159.55	-270.86	36.95	-37.52	3.51	22.00	20.40	364.23	0.00	0.00	535.31	227.28	72.81	190.60	535.3	72.8
VANO 2	21.60	-82.15	175.17	-249.40	36.95	-37.52	3.51	23.00	21.60	364.23	0.00	0.00	617.24	136.58	62.83	167.54	617.2	62.8
VANO 2	22.80	-38.81	191.68	-228.82	36.95	-37.52	3.51	24.00	22.80	364.23	0.00	0.00	700.51	47.22	52.85	144.76	700.5	52.9
VANO 2	24.00	4.53	209.09	-209.15	36.95	-37.52	3.51	25.00	24.00	-3.44	0.00	0.00	376.61	367.73	47.91	122.27	376.6	47.9
VANO 2	24.00	4.53	209.09	-209.15	36.95	-37.52	3.51	26.00	24.00	-3.44	0.00	0.00	376.61	367.73	47.91	122.27	376.6	47.9
VANO 2	25.20	47.87	228.57	-191.56	36.95	-37.52	3.51	27.00	25.20	-371.11	0.00	0.00	55.83	691.35	60.33	100.07	691.3	100.1
VANO 2	26.40	91.21	248.95	-174.86	36.95	-37.52	3.51	28.00	26.40	-371.11	0.00	0.00	144.90	607.79	73.03	78.15	607.8	78.2
VANO 2	27.60	134.54	270.21	-159.04	36.95	-37.52	3.51	29.00	27.60	-371.11	0.00	0.00	235.30	525.56	86.01	56.53	525.6	56.5
VANO 2	28.80	177.88	292.36	-145.03	36.95	-37.52	3.51	30.00	28.80	-371.11	0.00	0.00	327.03	446.03	100.82	67.00	446.0	67.0
VANO 2	28.80	177.88	292.36	-145.03	36.95	-37.52	3.51	31.00	28.80	-371.11	0.00	0.00	327.03	446.03	100.82	67.00	446.0	67.0
VANO 2	30.00	221.22	315.38	-134.79	36.95	-37.52	3.51	32.00	30.00	-371.11	0.00	0.00	420.06	372.17	120.77	57.36	420.1	120.8
VANO 2	31.20	264.56	339.20	-125.15	36.95	-37.52	3.51	33.00	31.20	-371.11	0.00	0.00	514.30	299.20	143.84	50.95	514.3	143.8
VANO 2	32.40	307.90	363.78	-116.10	36.95	-37.52	3.51	34.00	32.40	-371.11	0.00	0.00	609.68	227.12	167.69	45.34	609.7	167.7
VANO 2	33.60	351.23	389.11	-107.66	36.95	-37.52	3.51	35.00	33.60	-371.11	0.00	0.00	706.18	155.95	191.77	39.96	706.2	191.8
VANO 2	33.60	351.23	389.11	-107.66	36.95	-37.52	3.51	36.00	33.60	-371.11	0.00	0.00	706.18	155.95	191.77	39.96	706.2	191.8
VANO 2	34.80	394.57	415.17	-99.81	36.95	-37.52	3.51	37.00	34.80	-371.11	0.00	0.00	803.77	85.67	216.09	47.36	803.8	216.1
VANO 2	36.00	437.91	441.92	-92.55	36.95	-37.52	3.51	38.00	36.00	-371.11	0.00	0.00	902.40	16.27	240.65	57.34	902.4	240.6
VANO 2	37.20	481.25	469.34	-85.88	36.95	-37.52	3.51	39.00	37.20	-371.11	0.00	0.00	1002.05	52.24	265.44	67.32	1002.0	265.4
VANO 2	38.40	524.59	497.42	-79.79	36.95	-37.52	3.51	40.00	38.40	-371.11	0.00	0.00	1102.66	119.88	290.46	77.30	1102.7	290.5
VANO 2	38.40	524.59	497.42	-79.79	36.95	-37.52	3.51	41.00	38.40	-371.11	0.00	0.00	1102.66	119.88	290.46	77.30	1102.7	290.5
VANO 2	39.60	567.92	526.11	-74.28	36.95	-37.52	3.51	42.00	39.60	-371.11	0.00	0.00	1204.20	186.65	315.73	87.29	1204.2	315.7
VANO 2	40.80	611.26	555.39	-69.33	36.95	-37.52	3.51	43.00	40.80	-371.11	0.00	0.00	1306.63	252.58	341.22	97.27	1306.6	341.2
VANO 2	42.00	654.60	585.22	-66.65	36.95	-37.52	3.51	44.00	42.00	-371.11	0.00	0.00	1409.89	315.11	366.95	110.70	1409.9	367.0
VANO 2	43.20	697.94	615.58	-64.94	36.95	-37.52	3.51	45.00	43.20	-371.11	0.00	0.00	1513.93	376.18	392.92	122.73	1513.9	392.9
VANO 2	43.20	697.94	615.58	-64.94	36.95	-37.52	3.51	46.00	43.20	-371.11	0.00	0.00	1513.93	376.18	392.92	122.73	1513.9	392.9
VANO 2	44.40	741.28	646.42	-63.83	36.95	-37.52	3.51	47.00	44.40	-371.11	0.00	0.00	1618.70	436.65	419.12	134.51	1618.7	419.1
VANO 2	45.60	784.61	677.71	-62.70	36.95	-37.52	3.51	48.00	45.60	-371.11	0.00	0.00	1724.14	496.55	445.56	148.06	1724.1	445.6
VANO 2	46.80	827.95	709.42	-62.12	36.95	-37.52	3.51	49.00	46.80	-371.11	0.00	0.00	1830.20	555.92	472.23	157.36	1830.2	472.2

RESUMEN DE ESFUERZOS CORTANTES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
y's	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

		1	1	1	0.6	0.6	0.6	MULTIPLICADOR(Perdidas x Coef.Seg)								
			POSITIVOS	NEGATIVOS					0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO
		CARGAS	Envolv	Envolv	POSITIV	NEGATIV			CORTANTE Pret	CORTANTE Pret	CORTANTE Pret	CORTANT	CORTANT	CORT +	CORT -	
VANO 3	0.00	-863.37	86.73	-757.96	38.91	-35.19	-0.89	1.00	0.00	1.05	0.00	0.00	975.92	2355.00	126.35	466.74	2355.0	466.7
VANO 3	1.20	-820.03	86.85	-725.91	38.91	-35.19	-0.89	2.00	1.20	368.72	0.00	0.00	508.71	1839.90	116.61	440.21	1839.9	440.2
VANO 3	2.40	-778.69	87.13	-694.22	38.91	-35.19	-0.89	3.00	2.40	368.72	0.00	0.00	449.78	1733.86	106.87	413.92	1733.9	413.9
VANO 3	3.60	-733.36	87.59	-662.94	38.91	-35.19	-0.89	4.00	3.60	368.72	0.00	0.00	390.59	1628.42	97.12	387.86	1628.4	387.9
VANO 3	4.80	-690.02	88.24	-632.09	38.91	-35.19	-0.89	5.00	4.80	368.72	0.00	0.00	331.12	1523.64	87.38	362.04	1523.6	362.0
VANO 3	4.80	-690.02	88.24	-632.09	38.91	-35.19	-0.89	6.00	4.80	368.72	0.00	0.00	331.12	1523.64	87.38	362.04	1523.6	362.0
VANO 3	6.00	-646.68	89.08	-601.71	38.91	-35.19	-0.89	7.00	6.00	368.72	0.00	0.00	271.35	1419.57	77.64	336.45	1419.6	336.4
VANO 3	7.20	-603.34	90.12	-571.85	38.91	-35.19	-0.89	8.00	7.20	368.72	0.00	0.00	211.27	1316.27	67.90	311.09	1316.3	311.1
VANO 3	8.40	-560.00	92.69	-542.52	38.91	-35.19	-0.89	9.00	8.40	368.72	0.00	0.00	148.92	1213.78	59.02	286.83	1213.8	286.8
VANO 3	9.60	-516.67	98.12	-513.78	38.91	-35.19	-0.89	10.00	9.60	368.72	0.00	0.00	82.26	1112.16	51.71	264.36	1112.2	264.4
VANO 3	9.60	-516.67	98.12	-513.78	38.91	-35.19	-0.89	11.00	9.60	368.72	0.00	0.00	82.26	1112.16	51.71	264.36	1112.2	264.4
VANO 3	10.80	-473.33	104.12	-485.64	38.91	-35.19	-0.89	12.00	10.80	368.72	0.00	0.00	14.76	1011.44	44.39	242.12	1011.4	242.1
VANO 3	12.00	-429.99	110.69	-458.13	38.91	-35.19	-0.89	13.00	12.00	368.72	0.00	0.00	53.61	911.67	37.07	220.11	911.7	220.1
VANO 3	13.20	-386.65	117.85	-431.29	38.91	-35.19	-0.89	14.00	13.20	368.72	0.00	0.00	122.85	812.90	38.79	198.34	812.9	198.3
VANO 3	14.40	-343.31	125.60	-405.13	38.91	-35.19	-0.89	15.00	14.40	368.72	0.00	0.00	192.98	715.16	46.43	176.80	715.2	176.8
VANO 3	14.40	-330.76	125.60	-405.13	38.91	-35.19	-0.89	16.00	14.40	368.72	0.00	0.00	209.92	698.21	46.43	176.80	698.2	176.8
VANO 3	15.60	-287.43	133.93	-379.68	38.91	-35.19	-0.89	17.00	15.60	368.72	0.00	0.00	280.93	601.53	54.82	155.99	601.5	156.0
VANO 3	16.80	-244.09	143.02	-354.96	38.91	-35.19	-0.89	18.00	16.80	368.72	0.00	0.00	353.06	505.95	19.23	135.80	506.0	135.8
VANO 3	18.00	-200.75	154.20	-331.00	38.91	-35.19	-0.89	19.00	18.00	368.72	0.00	0.00	428.34	411.50	25.29	115.85	428.3	25.3
VANO 3	19.20	-157.41	167.93	-307.83	38.91	-35.19	-0.89	20.00	19.20	368.72	0.00	0.00	507.44	318.24	58.74	99.66	507.4	58.7
VANO 3	19.20	-157.41	167.93	-307.83	38.91	-35.19	-0.89	21.00	19.20	368.72	0.00	0.00	507.44	318.24	58.74	99.66	507.4	58.7
VANO 3	20.40	-114.07	182.71	-285.53	38.91	-35.19	-0.89	22.00	20.40	368.72	0.00	0.00	588.12	226.29	79.95	86.50	588.1	79.9
VANO 3	21.60	-70.74	198.37	-264.11	38.91	-35.19	-0.89	23.00	21.60	368.72	0.00	0.00	670.11	135.65	101.44	73.61	670.1	101.4
VANO 3	22.80	-27.40	214.91	-243.57	38.91	-35.19	-0.89	24.00	22.80	368.72	0.00	0.00	753.43	46.34	123.22	64.26	753.4	123.2
VANO 3	24.00	15.94	232.67	-224.25	38.91	-35.19	-0.89	25.00	24.00	1.05	0.00	0.00	430.06	367.37	145.28	74.00	430.1	145.3
VANO 3	24.00	15.94	232.67	-224.25	38.91	-35.19	-0.89	26.00	24.00	1.05	0.00	0.00	430.06	367.37	145.28	74.00	430.1	145.3
VANO 3	25.20	59.28	252.18	-206.69	38.91	-35.19	-0.89	27.00	25.20	-366.62	0.00	0.00	109.32	691.04	167.62	83.74	691.0	83.7
VANO 3	26.40	102.62	272.59	-190.01	38.91	-35.19	-0.89	28.00	26.40	-366.62	0.00	0.00	198.43	607.51	190.25	93.48	607.5	93.5
VANO 3	27.60	145.95	293.87	-174.22	38.91	-35.19	-0.89	29.00	27.60	-366.62	0.00	0.00	288.86	525.32	213.16	103.23	525.3	103.2
VANO 3	28.80	189.29	316.04	-159.31	38.91	-35.19	-0.89	30.00	28.80	-366.62	0.00	0.00	380.62	444.44	236.38	112.97	444.4	113.0
VANO 3	28.80	189.29	316.04	-159.31	38.91	-35.19	-0.89	31.00	28.80	-366.62	0.00	0.00	380.62	444.44	236.38	112.97	444.4	113.0
VANO 3	30.00	232.63	339.08	-147.10	38.91	-35.19	-0.89	32.00	30.00	-366.62	0.00	0.00	473.68	367.63	259.78	122.71	473.7	259.8
VANO 3	31.20	275.97	362.92	-137.47	38.91	-35.19	-0.89	33.00	31.20	-366.62	0.00	0.00	567.95	294.69	283.28	132.45	567.9	283.3
VANO 3	32.40	319.31	387.51	-128.44	38.91	-35.19	-0.89	34.00	32.40	-366.62	0.00	0.00	663.35	222.63	307.02	142.19	663.3	307.0
VANO 3	33.60	362.64	412.85	-120.01	38.91	-35.19	-0.89	35.00	33.60	-366.62	0.00	0.00	759.86	151.47	330.99	151.94	759.9	331.0
VANO 3	33.60	362.64	412.85	-120.01	38.91	-35.19	-0.89	36.00	33.60	-366.62	0.00	0.00	759.86	151.47	330.99	151.94	759.9	331.0
VANO 3	34.80	405.98	438.91	-112.16	38.91	-35.19	-0.89	37.00	34.80	-366.62	0.00	0.00	857.46	81.20	355.19	161.68	857.5	355.2
VANO 3	36.00	449.32	465.66	-104.91	38.91	-35.19	-0.89	38.00	36.00	-366.62	0.00	0.00	956.09	11.81	379.62	171.42	956.1	379.6
VANO 3	37.20	492.66	493.09	-98.24	38.91	-35.19	-0.89	39.00	37.20	-366.62	0.00	0.00	1055.74	56.70	404.29	181.16	1055.7	404.3
VANO 3	38.40	536.00	521.17	-92.15	38.91	-35.19	-0.89	40.00	38.40	-366.62	0.00	0.00	1156.36	124.34	429.19	190.90	1156.4	429.2
VANO 3	38.40	536.00	521.17	-92.15	38.91	-35.19	-0.89	41.00	38.40	-366.62	0.00	0.00	1156.36	124.34	429.19	190.90	1156.4	429.2
VANO 3	39.60	579.33	549.86	-86.63	38.91	-35.19	-0.89	42.00	39.60	-366.62	0.00	0.00	1257.90	191.13	454.32	200.65	1257.9	454.3
VANO 3	40.80	622.67	579.14	-82.37	38.91	-35.19	-0.89	43.00	40.80	-366.62	0.00	0.00	1360.33	256.02	479.69	228.74	1360.3	479.7
VANO 3	42.00	666.01	608.98	-80.25	38.91	-35.19	-0.89	44.00	42.00	-366.62	0.00	0.00	1463.60	317.71	505.28	240.65	1463.6	505.3
VANO 3	43.20	709.35	639.34	-78.55	38.91	-35.19	-0.89	45.00	43.20	-366.62	0.00	0.00	1567.65	378.76	531.11	252.32	1567.6	531.1
VANO 3	43.20	709.35	639.34	-78.55	38.91	-35.19	-0.89	46.00	43.20	-366.62	0.00	0.00	1567.65	378.76	531.11	252.32	1567.6	531.1
VANO 3	44.40	752.69	670.20	-77.26	38.91	-35.19	-0.89	47.00	44.40	-366.62	0.00	0.00	1672.44	439.21	557.17	263.75	1672.4	557.2
VANO 3	45.60	796.02	701.51	-76.39	38.91	-35.19	-0.89	48.00	45.60	-366.62	0.00	0.00	1777.91	499.01	583.47	249.36	1777.9	583.5
VANO 3	46.80	839.36	733.24	-76.12	38.91	-35.19	-0.89	49.00	46.80	-366.62	0.00	0.00	1884.01	557.93	609.99	259.10	1884.0	610.0
VANO 3	48.00	882.70	765.04	-76.01	38.91	-35.19	-0.89	50.00	48.00	-1.05	0.00	0.00	2399.20	1025.12	636.76	268.64	2399.2	636.8
VANO 4	0.00	-917.88	80.71	-792.93	33.02	-41.41	0.21	1.00	0.00	-0.08	0.00	0.00	1068.30	2490.73	246.11	631.03	2490.7	631.0
VANO 4	1.28	-871.83	80.82	-759.07	33.02	-41.41	0.21	2.00	1.28	344.32	0.00	0.00	623.31	1995.10	235.65	602.55	1995.1	602.5
VANO 4	2.55	-825.79	81.10	-725.57	33.02	-41.41	0.21	3.00	2.55	344.32	0.00	0.00	560.73	1882.70	225.20	574.32	1882.7	574.3
VANO 4	3.83	-779.74	81.56	-692.49	33.02	-41.41	0.21	4.00	3.83	344.32	0.00	0.00	497.87	1770.91	214.75	546.34	1770.9	546.3
VANO 4	5.10	-733.69	82.22	-659.87	33.02	-41.41	0.21	5.00	5.10	344.32	0.00	0.00	434.72	1659.81	204.30	518.61	1659.8	518.6
VANO 4	5.10	-733.69	82.22	-659.87	33.02	-41.41	0.21	6.00	5.10	344.32	0.00	0.00	434.72	1659.81	204.30	518.61	1659.8	518.6
VANO 4	6.38	-687.65	83.68	-627.74	33.02	-41.41	0.21	7.00	6.38	344.32	0.00	0.00	370.37	1549.46	209.72	491.13	1549.5	491.1
VANO 4	7.65	-641.60	85.85	-596.14	33.02	-41.41	0.21	8.00	7.65	344.32	0.00	0.00	304.95	1439.90	196.98	463.93	1439.9	463.9
VANO 4	8.93	-595.55	89.76	-565.12	33.02	-41.41	0.21	9.00	8.93	344.32	0.00	0.00	236.93	1331.20	173.03	437.02	1331.2	437.0
VANO 4	10.20	-549.51	95.32	-534.69	33.02	-41.41	0.21	10.00	10.20	344.32	0.00	0.00	166.42	1223.40	162.66	410.37	1223.4	410.4
VANO 4	10.20	-549.51	95.32	-534.69	33.02	-41.41	0.21	11.00	10.20	344.32	0.00	0.00	166.42	1223.40	162.66	410.37	1223.4	410.4
VANO 4	11.48	-503.46	101.49	-504.91	33.02	-41.41	0.21	12.00	11.48	344.32	0.00	0.00	95.00	1116.56	152.28	383.97	1116.6	384.0
VANO 4	12.75	-457.41	108.27	-475.79	33.02	-41.41	0.21	13.00	12.75	344.32	0.00	0.00	22.67	1010.73	141.90	357.82	1010.7	357.8
VANO 4	14.03	-411.37	115.67	-447.38	33.02	-41.41	0.21	14.00	14.03	344.32	0.00	0.00	50.59	905.94	131.53	331.92	905.9	331.9
VANO 4	15.30	-365.32	123.69	-419.68	33.02	-41.41	0.21	15.00	15.30	344.32	0.00	0.00	124.78	802.23	121.15	306.27	802.2	306.3
VANO 4	15.30	-352.77	123.69	-419.68	33.02	-41.41	0.21	16.00	15.30	344.32	0.00	0.00	141.72	785.29	121.15	306.27	785.3	306.3
VANO 4	16.58	-306.72	132.34	-392.74	33.02	-41.41	0.21	17.00	16.58	344.32	0.00	0.00	216.86	682.71	110.78	280.87	682.7	280.9
VANO 4	17.85	-260.68	141.62	-366.57	33.02	-41.41	0.21	18.00	17.85	344.32	0.00	0.00	292.94	581.29	100.40	255.72	581.3	255.7
VANO 4	19.13	-214.63	152.59	-341.19	33.02	-41.41	0.21	19.00	19.13	344.32	0.00	0.00	371.56	481.07	90.90	230.81	481.1	230.8
VANO 4	20.40	-168.58	167.31	-316.63	33.02	-41.41	0.21	20.00	20.40	344.32	0.00	0.00	455.81	382.06	79.65	206.16	455.8	79.6
VANO 4	20.40	-168.58	167.31	-316.63	33.02	-41.41	0.21	21.00	20.40	344.32	0.00	0.00	455.81	382.06	79.65	206.16	455.8	79.6
VANO 4	21.68	-122.54	182.96	-292.91	33.02	-41.41	0.21	22.00	21.68	344.32	0.00	0.00	541.45	284.32	69.27	181.70	541.5	69.3
VANO 4	22.95	-76.49	199.56	-270.11	33.02	-41.41	0.21	23.00	22.95	344.32	0.00	0.00	628.50	187.95	58.90	157.38	628.5	58.9
VANO 4	24.23	-30.44	217.09	-248.25	33.02	-41.41	0.21	24.00	24.23	344.32	0.00	0.00	716.97	92.99	48.52	133.37	717.0	48.5
VANO 4	25.50	15.60	235.91	-227.67	33.02	-41.41	0.21	25.00	25.50	-0.08	0.00	0.00	424.70	382.63	60.28	109.66	424.7	60.3
VANO 4	25.50	15.60	235.91	-227.67	33.02	-41.41	0.21	26.00	25.50	-0.08	0.00	0.00	424.70	382.63	60.28	109.66	424.7	60.3
VANO 4	26.78	61.65	256.62	-208.98	33.02	-41.41	0.21	27.00	26.78	-344.48	0.00	0.00	135.26	675.10	73.42	86.26	675.1	86.3
VANO 4	28.05	107.70	278.28	-191.24	33.02	-41.41	0.21	28.00	28.05	-344.48	0.00	0.00	229.91	586.33	90.76	63.24	586.3	63.2
VANO 4	29.33	153.74	300.89	-174.45	33.02	-41.41	0.21	29.00	29.33	-344.48	0.00	0.00	325.99	498.98	112.28	41.39	499.0	41.4
VANO 4	30.60	199.79	324.42	-158.60	33.02	-41.41	0.21	30.00	30.60	-344.48	0.00	0.00	423.44	413.05	133.99	21.53	423.4	134.0
VANO 4	30.60	199.79	324.42	-158.60	33.02	-41.41	0.21	31.00	30.60	-344.48	0.00	0.00	423.44	413.05	133.99	21.53	423.4	134.0
VANO 4	31.88	245.84	348.79	-146.19	33.02	-41.41	0.21	32.00	31.88	-344.48	0.00	0.00	522.17	332.27	158.28	51.40	522.2	158.3
VANO 4	33.15	291.88	373.99	-136.14	33.02	-41.41	0.21	33.00	33.15	-344.48	0.00	0.00	622.13	255.03	183.11	45.23	622.1	183.1
VANO 4	34.43	337.93	399.99	-126.72	33.02	-41.41	0.21	34.00	34.43	-344.48	0.00	0.00	723.29	178.73	208.18	50.49	723.3	208.2
VANO 4	35.70	383.98	426.78	-117.93	33.02	-41.41	0.21	35.00	35.70	-344.48	0.00	0.00	825.63	103.39	233.51	60.94	825.6	233.5
VANO 4	35.70	383.98	426.78	-117.93	33.02	-41.41	0.21	36.00	35.70	-344.48	0.00	0.00	825.63	103.39	233.51	60.94	825.6	233.5
VANO 4	36.98	430.02	454.32	-109.77	33.02	-41.41	0.21	37.00	36.98	-344.48	0.00	0.00	929.11	28.99	259.09	71.39	929.1	259.1
VANO 4	38.25	476.07	482.60	-102.24	33.02	-41.41	0.21	38.00	38.25	-344.48	0.00	0.00	1033.69	44.47	284.92	81.85	1033.7	284.9
VANO 4	39.53	522.12	511.59	-95.33	33.02	-41.41	0.21	39.00	39.53	-344.48	0.00	0.00	1139.33	117.00	310.99	92.30	1139.3	311.0
VANO 4	40.80	568.16	541.25	-89.03	33.02	-41.41	0.21	40.00	40.80	-344.48	0.00	0.00	1246.00	188.61	337.32	102.75	1246.0	337.3
VANO 4	40.80	568.16	541.25	-89.03	33.02	-41.41	0.21	41.00	40.80	-344.48	0.00	0.00	1246.00	188.61	337.32	102.75	1246.0	337.3
VANO 4	42.08	614.21	571.57	-83.34	33.02	-41.41	0.21	42.00	42.08	-344.48	0.00	0.00	1353.64	259.32	363.90	113.21	1353.6	363.9
VANO 4	43.35	660.26	602.51	-78.24	33.02	-41.41	0.21	43.00	43.35	-344.48	0.00	0.00	1462.20	329.13	390.73	123.66	1462.2	390.7
VANO 4	44.63	706.30	634.03	-75.89	25.19	-41.41	0.21	44.00	44.63	-344.48	0.00	0.00	1559.90	394.82	417.80	146.35	1559.9	417.8
VANO 4	45.90	752.35	666.09	-74.10	21.48	-46.57	0.21	45.00	45.90	-344.48	0.00	0.00	1664.60	451.93	445.13	159.01	1664.6	445.1
VANO 4	45.90	752.35	666.09	-74.10	21.48	-46.57	0.21	46.00	45.90	-344.48	0.00	0.00	1664.60	451.93	445.13	159.01	1664.6	445.1
VANO 4	47.18	798.40	698.67	-72.73	21.48	-55.44	0.21	47.00	47.18	-344.48	0.00	0.00	1775.63	502.83	472.71	171.40	1775.6	472.7
VANO 4	48.45	844.44	731.73	-71.76	21.48	-64.32	0.21	48.00	48.45	-344.48	0.00	0.00	1887.37	553.13	500.54	183.54	1887.4	500.5
VANO 4	49.73	890.49	765.21	-71.42	21.48	-73.19	0.21	49.00	49.73	-344.48	0.00	0.00	1999.76	602.49	528.62	175.92	1999.8	528.6
VANO 4	50.00	899.70	771.31	-71.31	21.48	-74.08	0.21	50.00	50.00	-1.05	0.00	0.00	2399.20	1025.12	634.76	268.64	2399.2	634.8
VANO 5	0.00	-941.73	71.61	-800.10	85.09	19.26	-0.06	1.00	0.00	-0.09	0.00	0.00	1036.39	2471.64	341.28	701.27	2471.6	701.3
VANO 5	1.28	-895.69	71.84	-766.23	85.09	10.39	-0.06	2.00	1.28	344.31	0.00	0.00	591.21	1976.01	329.52	672.69	1976.0	672.7
VANO 5	2.55	-849.64	72.43	-732.75	85.09	1.51	-0.06	3.00	2.55	344.31	0.00	0.00	528.16	1863.62	317.50	644.35	1863.6	644.4
VANO 5	3.83	-803.60	73.39	-699.70	85.09	-7.36	-0.06	4.00	3.83	344.31	0.00	0.00	464.56	1762.93	305.22	616.27	1762.9	616.3
VANO 5	5.10	-757.55	74.75	-667.12	85.09	-18.24	-0.06	5.00	5.10	344.31	0.00	0.00	400.35	1665.21	292.71	588.45	1665.2	588.4

RESUMEN DE ESFUERZOS CORTANTES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

MULTIPLICADOR(Perdidas x Coef.Seg)

		1	1	1	0.6	0.6	0.6			0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
		CARGAS	POSITIVOS Envolv	NEGATIVOS Envolv	POSITIV	NEGATIV				CORTANTE Pret	CORTANTE Pret	CORTANTE Pret	CORTANT	CORTANT	CORT +	CORT -		
VANO 5	5.10	-757.55	74.75	-667.12	85.09	-16.24	-0.06	6.00	5.10	344.31	0.00	0.00	400.35	1665.21	292.71	588.45	1665.2	588.4
VANO 5	6.38	-711.50	76.54	-635.05	85.09	-25.11	-0.06	7.00	6.38	344.31	0.00	0.00	335.50	1568.26	280.00	560.93	1568.3	560.9
VANO 5	7.65	-665.46	78.90	-603.53	85.09	-32.94	-0.06	8.00	7.65	344.31	0.00	0.00	269.80	1470.56	251.92	533.67	1470.6	533.7
VANO 5	8.93	-619.41	83.99	-572.59	85.09	-32.94	-0.06	9.00	8.93	344.31	0.00	0.00	200.00	1361.99	238.71	506.65	1362.0	506.6
VANO 5	10.20	-573.36	89.68	-542.27	85.09	-32.94	-0.06	10.00	10.20	344.31	0.00	0.00	129.31	1254.35	228.13	479.88	1254.3	479.9
VANO 5	10.20	-573.36	89.68	-542.27	85.09	-32.94	-0.06	11.00	10.20	344.31	0.00	0.00	129.31	1254.35	228.13	479.88	1254.3	479.9
VANO 5	11.48	-527.32	95.97	-512.60	85.09	-32.94	-0.06	12.00	11.48	344.31	0.00	0.00	57.71	1147.68	217.15	452.96	1147.7	453.0
VANO 5	12.75	-481.27	102.87	-483.61	85.09	-32.94	-0.06	13.00	12.75	344.31	0.00	0.00	14.80	1042.03	206.49	426.60	1042.0	426.6
VANO 5	14.03	-435.22	110.39	-455.33	85.09	-32.94	-0.06	14.00	14.03	344.31	0.00	0.00	88.25	937.44	195.84	400.50	937.4	400.5
VANO 5	15.30	-389.18	118.54	-427.78	85.09	-32.94	-0.06	15.00	15.30	344.31	0.00	0.00	162.64	833.95	185.18	374.65	833.9	374.6
VANO 5	15.30	-376.63	118.54	-427.78	85.09	-32.94	-0.06	16.00	15.30	344.31	0.00	0.00	179.58	817.01	185.18	374.65	817.0	374.6
VANO 5	16.58	-330.58	127.32	-400.99	85.09	-32.94	-0.06	17.00	16.58	344.31	0.00	0.00	254.91	714.66	174.52	349.04	714.7	349.0
VANO 5	17.85	-284.53	136.73	-374.98	81.96	-32.94	-0.06	18.00	17.85	344.31	0.00	0.00	326.49	613.48	163.87	323.69	613.5	323.7
VANO 5	19.13	-238.49	146.77	-349.77	73.09	-32.94	-0.06	19.00	19.13	344.31	0.00	0.00	390.40	513.51	153.21	298.58	513.5	298.6
VANO 5	20.40	-192.44	159.36	-325.38	66.30	-32.94	-0.06	20.00	20.40	344.31	0.00	0.00	461.27	414.77	142.55	273.71	461.3	142.6
VANO 5	20.40	-192.44	159.36	-325.38	66.30	-32.94	-0.06	21.00	20.40	344.31	0.00	0.00	461.27	414.77	142.55	273.71	461.3	142.6
VANO 5	21.68	-146.39	175.19	-301.84	57.43	-32.94	-0.06	22.00	21.68	344.31	0.00	0.00	533.87	317.29	138.73	255.87	533.9	138.7
VANO 5	22.95	-100.35	191.97	-279.22	48.55	-32.94	-0.06	23.00	22.95	344.31	0.00	0.00	607.89	221.19	134.90	238.16	607.9	134.9
VANO 5	24.23	-54.30	209.69	-257.54	39.68	-32.94	-0.06	24.00	24.23	344.31	0.00	0.00	683.32	126.51	131.07	220.76	683.3	131.1
VANO 5	25.50	-8.25	228.36	-236.81	30.81	-32.94	-0.06	25.00	25.50	-0.09	0.00	0.00	377.51	415.92	127.24	203.67	415.9	203.7
VANO 5	25.50	-8.25	228.36	-236.81	30.81	-32.94	-0.06	26.00	25.50	-0.09	0.00	0.00	377.51	415.92	76.65	153.08	415.9	153.1
VANO 5	26.78	37.79	248.91	-217.97	29.84	-40.85	-0.06	27.00	26.78	-344.49	0.00	0.00	86.38	720.02	84.54	129.46	720.0	129.5
VANO 5	28.05	83.84	270.75	-200.42	29.84	-49.72	-0.06	28.00	28.05	-344.49	0.00	0.00	181.31	644.84	98.06	106.14	644.8	106.1
VANO 5	29.33	129.89	293.54	-183.80	29.84	-58.59	-0.06	29.00	29.33	-344.49	0.00	0.00	277.65	571.06	111.87	83.13	571.1	83.1
VANO 5	30.60	175.93	317.24	-168.13	29.84	-67.47	-0.06	30.00	30.60	-344.49	0.00	0.00	375.36	498.70	125.84	60.41	498.7	60.4
VANO 5	30.60	175.93	317.24	-168.13	29.84	-67.47	-0.06	31.00	30.60	-344.49	0.00	0.00	375.36	498.70	125.84	60.41	498.7	60.4
VANO 5	31.88	221.98	341.78	-153.38	29.84	-76.34	-0.06	32.00	31.88	-344.49	0.00	0.00	474.33	427.73	146.82	38.15	474.3	146.8
VANO 5	33.15	268.03	367.13	-142.24	29.84	-85.22	-0.06	33.00	33.15	-344.49	0.00	0.00	574.53	362.16	168.05	67.45	574.5	168.0
VANO 5	34.43	314.07	393.28	-132.95	29.84	-86.26	-0.06	34.00	34.43	-344.49	0.00	0.00	675.91	287.63	189.60	57.82	675.9	189.6
VANO 5	35.70	360.12	420.20	-124.28	29.84	-86.26	-0.06	35.00	35.70	-344.49	0.00	0.00	778.46	212.47	212.27	49.33	778.5	212.3
VANO 5	35.70	360.12	420.20	-124.28	29.84	-86.26	-0.06	36.00	35.70	-344.49	0.00	0.00	778.46	212.47	212.27	49.33	778.5	212.3
VANO 5	36.98	406.17	447.87	-116.25	29.84	-86.26	-0.06	37.00	36.98	344.49	0.00	0.00	882.13	138.25	235.19	52.50	882.1	235.2
VANO 5	38.25	452.21	476.27	-108.84	29.84	-86.26	-0.06	38.00	38.25	-344.49	0.00	0.00	986.88	64.98	258.36	60.27	986.9	258.4
VANO 5	39.53	498.26	505.36	-102.04	29.84	-86.26	-0.06	39.00	39.53	-344.49	0.00	0.00	1092.69	7.38	282.02	68.28	1092.7	282.0
VANO 5	40.80	544.31	535.12	-95.86	29.84	-86.26	-0.06	40.00	40.80	-344.49	0.00	0.00	1199.49	78.82	306.98	77.36	1199.5	307.0
VANO 5	40.80	544.31	535.12	-95.86	29.84	-86.26	-0.06	41.00	40.80	-344.49	0.00	0.00	1199.49	78.82	306.98	77.36	1199.5	307.0
VANO 5	42.08	590.35	565.52	-90.28	29.84	-86.26	-0.06	42.00	42.08	-344.49	0.00	0.00	1307.25	149.35	332.19	86.42	1307.3	332.2
VANO 5	43.35	636.40	596.52	-86.25	29.84	-86.26	-0.06	43.00	43.35	-344.49	0.00	0.00	1415.92	217.56	359.16	103.96	1415.9	359.2
VANO 5	44.63	682.45	628.10	-84.06	29.84	-86.26	-0.06	44.00	44.63	-344.49	0.00	0.00	1525.44	283.01	386.37	116.98	1525.4	386.4
VANO 5	45.90	728.49	660.20	-82.31	29.84	-86.26	-0.06	45.00	45.90	-344.49	0.00	0.00	1635.77	347.79	413.84	129.74	1635.8	413.8
VANO 5	45.90	728.49	660.20	-82.31	29.84	-86.26	-0.06	46.00	45.90	-344.49	0.00	0.00	1635.77	347.79	413.84	129.74	1635.8	413.8
VANO 5	47.18	774.54	692.81	-81.55	29.84	-86.26	-0.06	47.00	47.18	-344.49	0.00	0.00	1746.83	411.09	441.55	128.74	1746.8	441.6
VANO 5	48.45	820.59	725.87	-81.08	29.84	-86.26	-0.06	48.00	48.45	-344.49	0.00	0.00	1858.59	473.96	469.51	139.32	1858.6	469.5
VANO 5	49.73	866.63	759.34	-80.80	29.84	-86.26	-0.06	49.00	49.73	-344.49	0.00	0.00	1970.96	536.55	497.72	148.90	1971.0	497.7
VANO 5	51.00	912.68	793.17	-80.53	29.84	-86.26	-0.06	50.00	51.00	-344.49	0.00	0.00	2066.35	661.25	526.18	160.96	2066.4	526.2
VANO 6	0.00	-887.92	79.12	-770.06	45.96	-35.26	0.02	1.00	0.00	-0.14	0.00	0.00	1011.19	2406.83	413.72	757.03	2406.8	757.0
VANO 6	1.20	-844.58	79.35	-737.99	45.96	-35.26	0.02	2.00	1.20	367.53	0.00	0.00	543.82	1891.68	402.59	730.03	1891.7	730.0
VANO 6	2.40	-801.24	79.92	-706.28	45.96	-35.26	0.02	3.00	2.40	367.53	0.00	0.00	484.46	1785.62	391.23	703.26	1785.6	703.3
VANO 6	3.60	-757.90	80.84	-675.00	45.96	-35.26	0.02	4.00	3.60	367.53	0.00	0.00	424.57	1680.19	379.64	676.72	1680.2	676.7
VANO 6	4.80	-714.57	82.15	-644.17	45.96	-35.26	0.02	5.00	4.80	367.53	0.00	0.00	364.10	1575.43	367.81	650.41	1575.4	650.4
VANO 6	4.80	-714.57	82.15	-644.17	45.96	-35.26	0.02	6.00	4.80	367.53	0.00	0.00	364.10	1575.43	367.81	650.41	1575.4	650.4
VANO 6	6.00	-671.23	83.86	-613.82	45.96	-35.26	0.02	7.00	6.00	367.53	0.00	0.00	303.03	1471.41	355.74	624.33	1471.4	624.3
VANO 6	7.20	-627.89	85.99	-584.00	45.96	-35.26	0.02	8.00	7.20	367.53	0.00	0.00	241.33	1368.18	343.44	598.47	1368.2	598.5
VANO 6	8.40	-584.55	90.27	-554.74	45.96	-35.26	0.02	9.00	8.40	367.53	0.00	0.00	176.40	1265.78	313.84	572.85	1265.8	572.8
VANO 6	9.60	-541.21	95.79	-526.07	45.96	-35.26	0.02	10.00	9.60	367.53	0.00	0.00	109.61	1164.26	299.71	547.45	1164.3	547.5
VANO 6	9.60	-541.21	95.79	-526.07	45.96	-35.26	0.02	11.00	9.60	367.53	0.00	0.00	109.61	1164.26	299.71	547.45	1164.3	547.5
VANO 6	10.80	-497.88	101.88	-498.01	45.96	-35.26	0.02	12.00	10.80	367.53	0.00	0.00	41.97	1063.67	287.95	522.29	1063.7	522.3
VANO 6	12.00	-454.54	108.55	-470.59	45.96	-35.26	0.02	13.00	12.00	367.53	0.00	0.00	26.54	964.04	277.87	497.35	964.0	497.3
VANO 6	13.20	-411.20	115.80	-443.85	45.96	-35.26	0.02	14.00	13.20	367.53	0.00	0.00	95.92	865.42	267.79	472.64	865.4	472.6
VANO 6	14.40	-367.86	123.64	-417.80	45.96	-35.26	0.02	15.00	14.40	367.53	0.00	0.00	166.18	767.84	257.71	448.16	767.8	448.2
VANO 6	14.40	-355.31	123.64	-417.80	45.96	-35.26	0.02	16.00	14.40	367.53	0.00	0.00	183.13	750.89	257.71	448.16	750.9	448.2
VANO 6	15.60	-311.97	132.07	-392.47	45.96	-35.26	0.02	17.00	15.60	367.53	0.00	0.00	254.28	654.39	247.64	423.91	654.4	423.9
VANO 6	16.80	-268.64	141.09	-367.88	45.96	-35.26	0.02	18.00	16.80	367.53	0.00	0.00	326.32	558.99	237.56	399.88	559.0	399.9
VANO 6	18.00	-225.30	150.71	-344.04	45.96	-35.26	0.02	19.00	18.00	367.53	0.00	0.00	399.25	464.74	227.48	376.09	464.7	376.1
VANO 6	19.20	-181.96	163.98	-321.00	45.96	-35.26	0.02	20.00	19.20	367.53	0.00	0.00	477.66	371.67	226.51	352.38	477.7	226.5
VANO 6	19.20	-181.96	163.98	-321.00	45.96	-35.26	0.02	21.00	19.20	367.53	0.00	0.00	477.66	371.67	226.51	352.38	477.7	226.5
VANO 6	20.40	-138.62	178.89	-298.82	45.96	-35.26	0.02	22.00	20.40	367.53	0.00	0.00	558.53	279.90	207.33	328.87	558.5	207.3
VANO 6	21.60	-95.28	194.67	-277.53	45.96	-35.26	0.02	23.00	21.60	367.53	0.00	0.00	640.71	189.45	197.25	305.64	640.7	197.2
VANO 6	22.80	-51.95	211.33	-257.11	45.96	-35.26	0.02	24.00	22.80	367.53	0.00	0.00	724.21	100.32	187.17	282.69	724.2	187.2
VANO 6	24.00	-8.61	228.88	-237.58	45.96	-35.26	0.02	25.00	24.00	-0.14	0.00	0.00	400.52	421.04	177.09	260.02	421.0	260.0
VANO 6	24.00	-8.61	228.88	-237.58	45.96	-35.26	0.02	26.00	24.00	-0.14	0.00	0.00	400.52	421.04	177.09	260.02	421.0	260.0
VANO 6	25.20	34.73	248.18	-219.80	45.96	-35.26	0.02	27.00	25.20	-367.80	0.00	0.00	79.46	744.38	167.02	237.62	744.4	237.6
VANO 6	26.40	78.07	268.70	-203.24	45.96	-35.26	0.02	28.00	26.40	-367.80	0.00	0.00	168.74	661.03	156.94	215.51	661.0	215.5
VANO 6	27.60	121.41	290.10	-187.56	45.96	-35.26	0.02	29.00	27.60	-367.80	0.00	0.00	259.35	579.01	146.86	193.68	579.0	193.7
VANO 6	28.80	164.74	312.38	-172.76	45.96	-35.26	0.02	30.00	28.80	-367.80	0.00	0.00	351.27	498.29	136.78	172.12	498.3	172.1
VANO 6	28.80	164.74	312.38	-172.76	45.96	-35.26	0.02	31.00	28.80	-367.80	0.00	0.00	351.27	498.29	136.78	172.12	498.3	172.1
VANO 6	30.00	208.08	335.52	-158.82	45.96	-35.26	0.02	32.00	30.00	-367.80	0.00	0.00	444.49	418.88	126.71	150.85	444.5	126.7
VANO 6	31.20	251.42	359.46	-147.62	45.96	-35.26	0.02	33.00	31.20	-367.80	0.00	0.00	538.90	343.57	116.63	117.72	538.9	116.6
VANO 6	32.40	294.76	384.15	-137.65	45.96	-35.26	0.02	34.00	32.40	-367.80	0.00	0.00	634.44	270.11	128.92	151.52	634.4	128.9
VANO 6	33.60	338.10	409.57	-129.29	45.96	-35.26	0.02	35.00	33.60	-367.80	0.00	0.00	731.08	199.07	142.87	135.98	731.1	142.9
VANO 6	33.60	338.10	409.57	-129.29	45.96	-35.26	0.02	36.00	33.60	-367.80	0.00	0.00	731.08	199.07	142.87	135.98	731.1	142.9
VANO 6	34.80	381.43	435.69	-121.53	45.96	-35.26	0.02	37.00	34.80	-367.80	0.00	0.00	828.77	128.93	157.04	120.67	828.8	157.0
VANO 6	36.00	424.77	462.50	-114.36	45.96	-35.26	0.02	38.00	36.00	-367.80	0.00	0.00	927.50	59.66	171.45	105.60	927.5	171.4
VANO 6	37.20	468.11	489.98	-107.77	45.96	-35.26	0.02	39.00	37.20	-367.80	0.00	0.00	1027.21	8.74	191.90	90.77	1027.2	191.9
VANO 6	38.40	511.45	518.08	-101.75	45.96	-35.26	0.02	40.00	38.40	-367.80	0.00	0.00	1127.88	76.27	213.19	76.17	1127.9	213.2
VANO 6	38.40	511.45	518.08	-101.75	45.96	-35.26	0.02	41.00	38.40	-367.80	0.00	0.00	1127.88	76.27	213.19	76.17	1127.9	213.2
VANO 6	39.60	554.79	546.80	-96.30	45.96	-35.26	0.02	42.00	39.60	-367.80	0.00	0.00	1229.45	142.95	234.71	66.97	1229.5	234.7
VANO 6	40.80	598.12	576.08	-93.19	45.96	-35.26	0.02	43.00	40.80	-367.80	0.00	0.00	1331.89	206.12	256.45	47.60	1331.9	256.5
VANO 6	42.00	641.48	605.92	-91.08	45.96	-35.26	0.02	44.00	42.00	-367.80	0.00	0.00	1435.15	267.80	278.43	43.95	1435.1	278.4
VANO 6	43.20	684.80	636.26	-89.53	45.96	-35.26	0.02	45.00	43.20	-367.80	0.00	0.00	1539.17	328.62	300.63	106.07	1539.2	300.6
VANO 6	43.20	684.80	636.26	-89.53	45.96	-35.26	0.02	46.00	43.20	-367.80	0.00	0.00	1539.17	328.62	300.63	106.07	1539.2	300.6
VANO 6	44.40	728.14	667.08	-88.88	45.96	-35.26	0.02	47.00	44.40	-367.80	0.00	0.00	1643.90	388.11	323.07	95.59	1643.9	323.1
VANO 6	45.60	771.48	698.33	-88.41	45.96	-35.26	0.02	48.00	45.60	-367.80	0.00	0.00	1749.29	447.31	346.56	83.75	1749.3	346.6
VANO 6	46.80	814.81	729.99	-88.12	45.96	-35.26	0.02	49.00	46.80	-367.80	0.00	0.00	1855.28	506.26	370.34	78.78	1855.3	370.3

RESUMEN DE ESFUERZOS CORTANTES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

MULTIPLICADOR(Perdidas x Coef.Seg)

		1	1	1	0.6	0.6	0.6			0.84	0.80	0.80						
		CARGAS	POSITIVOS Envolv	NEGATIVOS Envolv	POSITIV	NEGATIV				CORTANTE Pret	CORTANTE Pret	CORTANTE Pret	ESFUERZOS MAYORADOS CORTANT	CORTANT	CORT +	CORT -	ESFUERZO DE CÁLCULO	
VANO 7	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 7	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 7	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 7	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 7	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 7	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 7	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 7	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 7	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 7	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 7	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 7	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 7	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 7	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 7	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 7	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 7	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 7	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 7	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 7	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 7	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 7	20.40	-124.83	176.17	-286.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 7	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 7	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 7	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 7	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 7	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 7	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 7	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 7	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 7	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 7	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 7	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 7	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 7	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 7	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 7	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 7	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 7	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 7	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 7	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 7	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 7	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 7	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 7	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 7	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 7	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 7	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 7	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7
VANO 8	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 8	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 8	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 8	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 8	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 8	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 8	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 8	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 8	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 8	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 8	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 8	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 8	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 8	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 8	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 8	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 8	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 8	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 8	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 8	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 8	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 8	20.40	-124.83	176.17	-286.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 8	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 8	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 8	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 8	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 8	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 8	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 8	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 8	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 8	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 8	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 8	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 8	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 8	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 8	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 8	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 8	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 8	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 8	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 8	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 8	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 8	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 8	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 8	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 8	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 8	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 8	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 8	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7

RESUMEN DE ESFUERZOS CORTANTES

CARACTERÍSTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

		MULTIPLICADOR(Perdidas x Coef.Seg)															
		1	1	1	0.6	0.6	0.6			0.84	0.80	0.80					
		CARGAS	POSITIVOS Envolv	NEGATIVOS Envolv	POSITIV	NEGATIV				CORTANTE Pret	CORTANTE Pret	CORTANTE Pret	ESFUERZOS MAYORADOS CORTANT	CORTANT	CORT +	CORT -	ESFUERZO DE CÁLCULO
VANO 9	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 9	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 9	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 9	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 9	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 9	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 9	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 9	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 9	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 9	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 9	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 9	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 9	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 9	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 9	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 9	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 9	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 9	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 9	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 9	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 9	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 9	20.40	-124.83	176.17	-286.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 9	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 9	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 9	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 9	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 9	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 9	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 9	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 9	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 9	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 9	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 9	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 9	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 9	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 9	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 9	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 9	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 9	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 9	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 9	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 9	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 9	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 9	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 9	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 9	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 9	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 9	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 9	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7
VANO 10	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 10	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 10	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 10	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 10	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 10	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 10	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 10	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 10	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 10	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 10	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 10	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 10	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 10	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 10	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 10	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 10	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 10	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 10	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 10	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 10	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 10	20.40	-124.83	176.17	-286.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 10	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 10	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 10	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 10	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 10	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 10	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 10	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 10	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 10	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 10	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 10	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 10	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 10	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 10	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 10	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 10	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 10	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 10	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 10	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 10	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 10	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 10	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 10	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 10	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 10	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 10	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 10	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7

RESUMEN DE ESFUERZOS CORTANTES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

									MULTIPLICADOR(Perdidas x Coef.Seg)							
		1	1	1	0.6	0.6	0.6			0.84	0.80	0.80				
		CARGAS	POSITIVOS Envolv	NEGATIVOS Envolv	POSITIV	NEGATIV				CORTANTE Pret	CORTANTE Pret	CORTANTE Pret	ESFUERZOS MAYORADOS CORTANT	CORTANT	CORT +	CORT -	ESFUERZO DE CÁLCULO	
VANO 11	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 11	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 11	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 11	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 11	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 11	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 11	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 11	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 11	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 11	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 11	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 11	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 11	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 11	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 11	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 11	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 11	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 11	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 11	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 11	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 11	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 11	20.40	-124.83	176.17	-286.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 11	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 11	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 11	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 11	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 11	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 11	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 11	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 11	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 11	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 11	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 11	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 11	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 11	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 11	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 11	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 11	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 11	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 11	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 11	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 11	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 11	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 11	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 11	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 11	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 11	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 11	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 11	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7
VANO 12	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 12	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 12	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 12	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 12	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 12	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 12	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 12	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 12	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 12	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 12	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 12	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 12	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 12	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 12	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 12	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 12	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 12	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 12	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 12	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 12	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 12	20.40	-124.83	176.17	-286.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 12	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 12	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 12	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 12	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 12	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 12	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 12	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 12	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 12	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 12	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 12	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 12	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 12	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 12	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 12	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 12	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 12	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 12	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 12	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 12	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 12	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 12	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 12	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 12	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 12	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 12	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 12	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7

RESUMEN DE ESFUERZOS CORTANTES

CARÁCTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

									MULTIPLICADOR(Perdidas x Coef.Seg)							
		1	1	1	0.6	0.6	0.6			0.64	0.80	0.80				
		CARGAS	POSITIVOS Envolv	NEGATIVOS Envolv	POSITIV	NEGATIV				CORTANTE Pret	CORTANTE Pret	CORTANTE Pret	ESFUERZOS MAYORADOS CORTANT	CORTANT	CORT +	CORT -	ESFUERZO DE CÁLCULO	
VANO 13	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 13	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 13	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 13	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 13	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 13	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 13	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 13	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 13	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 13	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 13	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 13	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 13	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 13	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 13	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 13	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 13	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 13	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 13	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 13	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 13	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 13	20.40	-124.83	176.17	-286.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 13	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 13	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 13	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 13	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 13	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 13	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 13	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 13	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 13	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 13	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 13	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 13	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 13	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 13	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 13	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 13	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 13	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 13	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 13	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 13	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 13	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 13	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 13	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 13	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 13	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 13	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 13	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7
VANO 14	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 14	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 14	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 14	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 14	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 14	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 14	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 14	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 14	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 14	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 14	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 14	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 14	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 14	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 14	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 14	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 14	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 14	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 14	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 14	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 14	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 14	20.40	-124.83	176.17	-286.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 14	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 14	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 14	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 14	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 14	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 14	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 14	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 14	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 14	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 14	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 14	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 14	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 14	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 14	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 14	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 14	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 14	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 14	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 14	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 14	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 14	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 14	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 14	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 14	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 14	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 14	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 14	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7

RESUMEN DE ESFUERZOS CORTANTES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

									MULTIPLICADOR(Perdidas x Coef.Seg)							
		1	1	1	0.6	0.6	0.6		0.84	0.80	0.80					
		CARGAS	POSITIVOS Envolv	NEGATIVOS Envolv	POSITIV	NEGATIV			CORTANTE Pret Exterior	CORTANTE Pret Centrado	CORTANTE Pret Adicional	ESFUERZOS MAYORADOS CORTANT POSITIVOS	CORTANT NEGATIVOS	CORT + TRAS CORT	CORT - TRAS CORT	ESFUERZO DE CÁLCULO	
VANO 15	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 15	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 15	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 15	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 15	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 15	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 15	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 15	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 15	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 15	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 15	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 15	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 15	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 15	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 15	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 15	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 15	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 15	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 15	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 15	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 15	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 15	20.40	-124.83	176.17	-285.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 15	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 15	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 15	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 15	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 15	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 15	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 15	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 15	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 15	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 15	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 15	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 15	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 15	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 15	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 15	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 15	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 15	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 15	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 15	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 15	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 15	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 15	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 15	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 15	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 15	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 15	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 15	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7
VANO 16	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 16	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 16	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 16	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 16	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 16	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 16	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 16	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 16	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 16	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 16	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 16	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 16	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 16	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 16	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 16	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 16	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 16	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 16	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 16	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 16	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 16	20.40	-124.83	176.17	-285.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 16	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 16	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 16	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 16	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 16	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 16	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 16	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 16	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 16	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 16	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 16	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 16	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 16	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 16	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 16	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 16	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 16	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 16	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 16	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 16	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 16	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 16	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 16	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 16	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 16	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 16	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 16	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7

RESUMEN DE ESFUERZOS CORTANTES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

MULTIPLICADOR(Perdidas x Coef.Seg)

		1	1	1	0.6	0.6	0.6			0.84	0.80	0.80						
		CARGAS	POSITIVOS Envolv	NEGATIVOS Envolv	POSITIV	NEGATIV				CORTANTE Pret Exterior	CORTANTE Pret Centrado	CORTANTE Pret Adicional	ESFUERZOS MAYORADOS CORTANT POSITIVOS	CORTANT NEGATIVOS	CORT +	CORT -	ESFUERZO DE CÁLCULO	
VANO 17	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 17	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 17	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 17	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 17	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 17	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 17	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 17	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 17	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 17	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 17	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 17	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 17	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 17	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 17	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 17	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 17	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 17	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 17	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 17	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 17	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 17	20.40	-124.83	176.17	-286.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 17	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 17	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 17	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 17	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 17	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 17	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 17	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 17	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 17	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 17	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 17	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 17	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 17	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 17	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 17	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 17	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 17	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 17	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 17	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 17	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 17	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 17	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 17	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 17	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 17	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 17	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 17	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7
VANO 18	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5	710.4
VANO 18	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5	683.3
VANO 18	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4	656.4
VANO 18	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6	629.7
VANO 18	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 18	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5	603.2
VANO 18	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1	576.9
VANO 18	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4	550.9
VANO 18	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2	525.1
VANO 18	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 18	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7	499.5
VANO 18	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1	474.2
VANO 18	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5	449.0
VANO 18	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8	424.1
VANO 18	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2	399.5
VANO 18	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3	399.5
VANO 18	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7	375.0
VANO 18	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3	350.8
VANO 18	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0	326.8
VANO 18	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 18	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8	177.1
VANO 18	20.40	-124.83	176.17	-286.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4	166.7
VANO 18	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4	156.3
VANO 18	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7	145.9
VANO 18	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 18	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8	135.6
VANO 18	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6	187.0
VANO 18	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3	164.7
VANO 18	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3	142.6
VANO 18	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 18	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6	120.8
VANO 18	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6	111.4
VANO 18	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9	124.9
VANO 18	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3	143.4
VANO 18	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 18	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8	163.8
VANO 18	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4	184.4
VANO 18	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1	205.2
VANO 18	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7	226.3
VANO 18	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 18	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2	247.6
VANO 18	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7	269.5
VANO 18	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1	292.1
VANO 18	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3	315.0
VANO 18	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 18	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2	338.1
VANO 18	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9	361.4
VANO 18	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2	384.9
VANO 18	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1	408.7

RESUMEN DE ESFUERZOS CORTANTES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

		1	1	1	0.6	0.6	0.6	MULTIPLICADOR(Perdidas x Coef.Seg)								
									0.84	0.80	0.80					
		CARGAS	POSITIVOS Envolv	NEGATIVOS Envolv	POSITIV	NEGATIV			CORTANTE Pret Exterior	CORTANTE Pret Centrado	CORTANTE Pret Adicional	ESFUERZOS MAYORADOS CORTANT POSITIVOS	CORTANT NEGATIVOS	CORT +	CORT -	ESFUERZO DE CÁLCULO
VANO 19	0.00	-874.12	244.92	-757.64	86.57	5.84	0.00	1.00	0.00	0.00	0.00	682.83	2316.53	343.07	710.45	2316.5 710.4
VANO 19	1.20	-830.79	233.73	-725.66	78.22	3.75	0.00	2.00	1.20	367.67	0.00	0.00	245.11	1801.53	332.69	683.29	1801.5 683.3
VANO 19	2.40	-787.45	222.70	-694.04	73.43	-1.90	0.00	3.00	2.40	367.67	0.00	0.00	210.34	1698.44	352.02	656.36	1698.4 656.4
VANO 19	3.60	-744.11	211.81	-662.82	71.34	-10.26	0.00	4.00	3.60	367.67	0.00	0.00	171.30	1605.64	340.02	629.66	1605.6 629.7
VANO 19	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	5.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5 603.2
VANO 19	4.80	-700.77	201.07	-632.04	69.26	-18.61	0.00	6.00	4.80	367.67	0.00	0.00	132.03	1513.50	327.77	603.18	1513.5 603.2
VANO 19	6.00	-657.43	190.49	-601.74	67.17	-26.96	0.00	7.00	6.00	367.67	0.00	0.00	92.53	1422.07	315.30	576.92	1422.1 576.9
VANO 19	7.20	-614.10	180.05	-571.96	65.08	-35.31	0.00	8.00	7.20	367.67	0.00	0.00	52.81	1331.41	302.59	550.89	1331.4 550.9
VANO 19	8.40	-570.76	169.77	-542.72	62.99	-37.40	0.00	9.00	8.40	367.67	0.00	0.00	12.86	1232.18	271.89	525.09	1232.2 525.1
VANO 19	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	10.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7 499.5
VANO 19	9.60	-527.42	159.63	-514.06	60.90	-37.40	0.00	11.00	9.60	367.67	0.00	0.00	27.31	1130.68	260.07	499.51	1130.7 499.5
VANO 19	10.80	-484.08	149.65	-486.00	58.82	-37.40	0.00	12.00	10.80	367.67	0.00	0.00	67.71	1030.10	249.69	474.16	1030.1 474.2
VANO 19	12.00	-440.74	139.81	-458.59	56.73	-37.40	0.00	13.00	12.00	367.67	0.00	0.00	108.33	930.46	239.32	449.04	930.5 449.0
VANO 19	13.20	-397.41	130.13	-431.83	54.64	-37.40	0.00	14.00	13.20	367.67	0.00	0.00	149.18	831.83	228.94	424.14	831.8 424.1
VANO 19	14.40	-354.07	120.94	-405.77	52.55	-37.40	0.00	15.00	14.40	367.67	0.00	0.00	190.77	734.22	218.57	399.46	734.2 399.5
VANO 19	14.40	-341.52	120.94	-405.77	52.55	-37.40	0.00	16.00	14.40	367.67	0.00	0.00	207.71	717.28	218.57	399.46	717.3 399.5
VANO 19	15.60	-298.18	129.32	-380.41	50.46	-37.40	0.00	17.00	15.60	367.67	0.00	0.00	275.66	620.74	208.20	375.01	620.7 375.0
VANO 19	16.80	-254.84	138.30	-355.79	48.38	-37.40	0.00	18.00	16.80	367.67	0.00	0.00	344.50	525.30	197.82	350.79	525.3 350.8
VANO 19	18.00	-211.50	147.87	-331.92	46.29	-37.40	0.00	19.00	18.00	367.67	0.00	0.00	414.23	430.99	187.45	326.79	431.0 326.8
VANO 19	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	20.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8 177.1
VANO 19	19.20	-168.17	161.32	-308.84	44.20	-37.40	0.00	21.00	19.20	367.67	0.00	0.00	489.77	337.86	177.07	302.90	489.8 177.1
VANO 19	20.40	-124.83	176.17	-286.61	42.11	-37.40	0.00	22.00	20.40	367.67	0.00	0.00	567.43	246.01	166.70	279.18	567.4 166.7
VANO 19	21.60	-81.49	191.90	-265.26	40.02	-37.40	0.00	23.00	21.60	367.67	0.00	0.00	646.40	155.48	156.32	255.73	646.4 156.3
VANO 19	22.80	-38.15	208.51	-244.79	37.94	-37.40	0.00	24.00	22.80	367.67	0.00	0.00	726.69	66.27	145.95	232.56	726.7 145.9
VANO 19	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	25.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8 135.6
VANO 19	24.00	5.19	226.03	-225.23	35.85	-37.40	0.00	26.00	24.00	0.00	0.00	0.00	399.83	386.95	135.57	209.66	399.8 135.6
VANO 19	25.20	48.52	245.61	-207.73	34.37	-38.01	0.00	27.00	25.20	-367.67	0.00	0.00	76.96	711.62	125.20	187.04	711.6 187.0
VANO 19	26.40	91.86	266.07	-191.11	34.37	-40.10	0.00	28.00	26.40	-367.67	0.00	0.00	166.15	631.31	114.82	164.70	631.3 164.7
VANO 19	27.60	135.20	287.40	-175.36	34.37	-42.19	0.00	29.00	27.60	-367.67	0.00	0.00	256.66	552.32	104.45	142.63	552.3 142.6
VANO 19	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	30.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6 120.8
VANO 19	28.80	178.54	309.62	-160.50	34.37	-44.27	0.00	31.00	28.80	-367.67	0.00	0.00	348.49	474.65	97.99	120.83	474.6 120.8
VANO 19	30.00	221.88	332.69	-147.36	34.37	-46.36	0.00	32.00	30.00	-367.67	0.00	0.00	441.60	399.57	111.38	135.85	441.6 111.4
VANO 19	31.20	265.21	356.55	-137.79	34.37	-48.45	0.00	33.00	31.20	-367.67	0.00	0.00	535.90	329.83	124.89	119.60	535.9 124.9
VANO 19	32.40	308.55	381.16	-128.80	34.37	-50.54	0.00	34.00	32.40	-367.67	0.00	0.00	631.32	260.98	143.44	103.59	631.3 143.4
VANO 19	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	35.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8 163.8
VANO 19	33.60	351.89	406.50	-120.41	34.37	-52.63	0.00	36.00	33.60	-367.67	0.00	0.00	727.84	193.01	163.77	87.80	727.8 163.8
VANO 19	34.80	395.23	432.56	-112.60	34.37	-54.71	0.00	37.00	34.80	-367.67	0.00	0.00	825.43	125.93	184.39	72.99	825.4 184.4
VANO 19	36.00	438.57	459.30	-120.80	34.37	-56.80	0.00	38.00	36.00	-367.67	0.00	0.00	924.05	82.86	205.23	64.10	924.1 205.2
VANO 19	37.20	481.90	486.71	-130.56	34.37	-58.89	0.00	39.00	37.20	-367.67	0.00	0.00	1023.67	42.13	226.30	55.43	1023.7 226.3
VANO 19	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	40.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2 247.6
VANO 19	38.40	525.24	514.76	-140.47	34.37	-60.98	0.00	41.00	38.40	-367.67	0.00	0.00	1124.25	1.62	247.59	47.00	1124.2 247.6
VANO 19	39.60	568.58	543.41	-150.53	34.37	-63.07	0.00	42.00	39.60	-367.67	0.00	0.00	1225.73	38.67	269.50	43.70	1225.7 269.5
VANO 19	40.80	611.92	572.64	-160.75	34.37	-65.15	0.00	43.00	40.80	-367.67	0.00	0.00	1328.09	78.72	292.13	59.90	1328.1 292.1
VANO 19	42.00	655.26	602.42	-171.11	34.37	-67.24	0.00	44.00	42.00	-367.67	0.00	0.00	1431.26	118.55	314.99	69.66	1431.3 315.0
VANO 19	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	45.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2 338.1
VANO 19	43.20	698.59	632.71	-181.62	34.37	-69.33	0.00	46.00	43.20	-367.67	0.00	0.00	1535.21	158.16	338.08	79.20	1535.2 338.1
VANO 19	44.40	741.93	663.48	-192.28	34.37	-71.42	0.00	47.00	44.40	-367.67	0.00	0.00	1639.87	197.54	361.39	88.49	1639.9 361.4
VANO 19	45.60	785.27	694.70	-203.10	34.37	-73.51	0.00	48.00	45.60	-367.67	0.00	0.00	1745.20	236.69	384.93	97.56	1745.2 384.9
VANO 19	46.80	828.61	726.32	-214.06	34.37	-75.59	0.00	49.00	46.80	-367.67	0.00	0.00	1851.13	275.62	408.69	88.55	1851.1 408.7
VANO 20	0.00	-874.60	73.24	-751.00	0.00	0.00	0.87	1.00	0.00	-0.87	0.00	0.00	1070.52	2308.18	84.68	418.89	2308.2 418.9
VANO 20	1.20	-831.26	73.39	-719.06	0.00	0.00	0.87	2.00	1.20	366.80	0.00	0.00	603.26	1793.23	76.13	393.69	1793.2 393.7
VANO 20	2.40	-787.92	73.71	-687.47	0.00	0.00	0.87	3.00	2.40	366.80	0.00	0.00	544.28	1687.35	68.81	369.93	1687.4 369.9
VANO 20	3.60	-744.59	74.20	-656.30	0.00	0.00	0.87	4.00	3.60	366.80	0.00	0.00	485.03	1582.08	70.41	346.40	1582.1 346.4
VANO 20	4.80	-701.25	74.88	-625.56	0.00	0.00	0.87	5.00	4.80	366.80	0.00	0.00	425.51	1477.47	80.34	323.10	1477.5 323.1
VANO 20	4.80	-701.25	74.88	-625.56	0.00	0.00	0.87	6.00	4.80	366.80	0.00	0.00	425.51	1477.47	80.34	323.10	1477.5 323.1
VANO 20	6.00	-657.91	76.41	-595.30	0.00	0.00	0.87	7.00	6.00	366.80	0.00	0.00	364.71	1373.58	57.74	300.01	1373.6 300.0
VANO 20	7.20	-614.57	78.58	-565.56	0.00	0.00	0.87	8.00	7.20	367.67	0.00	0.00	301.98	1269.49	47.99	277.15	1269.5 277.2
VANO 20	8.40	-571.23	83.36	-536.38	0.00	0.00	0.87	9.00	8.40	367.67	0.00	0.00	236.31	1167.19	32.97	254.54	1167.2 254.5
VANO 20	9.60	-527.90	88.87	-507.74	0.00	0.00	0.87	10.00	9.60	367.67	0.00	0.00	169.54	1065.76	40.33	232.20	1065.8 232.2
VANO 20	9.60	-527.90	88.87	-507.74	0.00	0.00	0.87	11.00	9.60	367.67	0.00	0.00	169.54	1065.76	40.33	232.20	1065.8 232.2
VANO 20	10.80	-484.56	94.95	-479.73	0.00	0.00	0.87	12.00	10.80	367.67	0.00	0.00	101.91	965.23	48.34	210.50	965.2 210.5
VANO 20	12.00	-441.22	101.60	-452.38	0.00	0.00	0.87	13.00	12.00	367.67	0.00	0.00	33.43	865.66	57.05	189.50	865.7 189.5
VANO 20	13.20	-397.88	108.84	-425.65	0.00	0.00	0.87	14.00	13.20	367.67	0.00	0.00	35.93	767.09	65.99	168.72	767.1 168.7
VANO 20	14.40	-354.54	116.65	-399.62	0.00	0.00	0.87	15.00	14.40	367.67	0.00	0.00	106.17	669.55	76.65	149.06	669.5 149.1
VANO 20	14.40	-341.99	116.65	-399.62	0.00	0.00	0.87	16.00	14.40	367.67	0.00	0.00	123.11	652.61	76.65	149.06	652.6 149.1
VANO 20	15.60	-298.66	125.06	-374.31	0.00	0.00	0.87	17.00	15.60	367.67	0.00	0.00	194.23	556.13	92.48	135.09	556.1 135.1
VANO 20	16.80	-255.32	134.06	-349.73	0.00	0.00	0.87	18.00	16.80	367.67	0.00	0.00	268.23	460.75	108.55	121.34	480.8 121.3
VANO 20	18.00	-211.98	143.65	-325.90	0.00	0.00	0.87	19.00	18.00	367.67	0.00	0.00	339.12	366.50	124.84	107.81	366.5 107.8
VANO 20	19.20	-168.64	155.86	-302.85	0.00	0.00	0.87	20.00	19.20	367.67	0.00	0.00	415.94	273.43	111.37	94.40	415.9 111.4
VANO 20	19.20	-168.64	155.86	-302.85	0.00	0.00	0.87	21.00	19.20	367.67	0.00	0.00	415.94	273.43	111.37	94.40	415.9 111.4
VANO 20	20.40	-125.30	170.75	-280.66	0.00	0.00	0.87	22.00	20.40	367.67	0.00	0.00	496.78	181.63	133.21	93.21	496.8 133.2
VANO 20	21.60	-81.97	186.51	-259.35	0.00	0.00	0.87	23.00	21.60	367.67	0.00	0.00	578.93	91.15	155.32	103.66	578.9 155.3
VANO 20	22.80	-38.63	203.15	-238.91	0.00	0.00	0.87	24.00	22.80	367.67	0.00	0.00	662.40	1.99	177.71	114.11	662.4 177.7
VANO 20	24.00	4.71	220.72	-219.39	0.00	0.00	0.87	25.00	24.00	0.00	0.00	0.00	338.74	322.73	200.37	124.57	338.7 200.4
VANO 20	24.00	4.71	220.72	-219.39	0.00	0.00	0.87	26.00	24.00	0.00	0.00	0.00	338.74	322.73	200.37	124.57	338.7 200.4
VANO 20	25.20	48.05	240.32	-201.92	0.00	0.00	0.87	27.00	25.20	-367.67	0.00	0.00	18.13	646.53	223.30	135.02	646.5 135.0
VANO 20	26.40	91.39	260.81	-185.32	0.00	0.00	0.87	28.00	26.40	-367.67	0.00	0.00	107.36	563.13	246.51	145.47	563.1 145.5
VANO 20	27.60	134.72	282.17	-169.61	0.00	0.00	0.87	29.00	27.60	-367.67	0.00	0.00	197.91	481.05	269.99	155.92	481.1 155.9
VANO 20	28.80	178.06	304.41	-154.76	0.00	0.00	0.87	30.00	28.80	-367.67	0.00	0.00	289.77	400.28	293.74	170.28	400.3 170.3
VANO 20	28.80	178.06	304.41	-154.76	0.00	0.00	0.87	31.00	28.80	-367.67	0.00	0.00	289.77	400.28	293.74	170.28	400.3 170.3
VANO 20	30.00	221.40	327.50	-142.92	0.00	0.00	0.87	32.00	30.00	-367.67	0.00	0.00	382.92	324.01	317.64	176.82	382.9 317.8
VANO 20	31.20	264.74	351.37	-133.36	0.00	0.00	0.87	33.00	31.20	-367.67	0.00	0.00	477.23	251.16	341.66	187.27	477.2 341.7
VANO 20	32.40	308.08	375.99	-124.39	0.00	0.00	0.87	34.00	32.40	-367.67	0.00	0.00	572.66	179.21	365.91	197.72	572.7 365.9
VANO 20	33.60	351.41	401.34	-116.02	0.00	0.00	0.87	35.00	33.60	-367.67	0.00	0.00	669.20	108.14	390.38	208.18	669.2 390.4
VANO 20	33.60	351.41	401.34	-116.02	0.00	0.00	0.87	36.00	33.60	-367.67	0.00	0.00	669.20	108.14	390.38	208.18	669.2 390.4
VANO 20	34.80	394.75	427.40	-108.23	0.00	0.00	0.87	37.00	34.80	-367.67	0.00	0.00	766.79	37.95	415.08	218.63	766.8 415.1
VANO 20	36.00	438.09	454.15	-101.03	0.00	0.00	0.87	38.00	36.00	-367.67	0.00	0.00	865.42	31.36	439.99	229.08	865.4 440.0
VANO 20	37.20	481.43	481.56	-94.40	0.00	0.00	0.87	39.00	37.20	-367.67	0.00	0.00	965.04	99.80	465.14	239.53	965.0 465.1
VANO 20	38.40	524.77	509.60	-88.35	0.00	0.00	0.87	40.00	38.40	-367.67	0.00	0.00	1065.61	167.38	490.50	250.12	1065.6 490.5
VANO 20	38.40	524.77	509.60	-88.35	0.00	0.00	0.87	41.00	38.40	-367.67	0.00	0.00	1065.61	167.38	490.50	250.12	1065.6 490.5
VANO 20	39.60	568.10	538.25	-82.87	0.00	0.00	0.87	42.00	39.60	-367.67	0.00	0.00	1167.09	234.11	516.10	264.75	1167.1 516.1
VANO 20	40.80	611.44	567.47	-78.31	0.00	0.00	0.87	43.00	40.80	-367.67	0.00	0.00	1269.43	299.45	541.91	295.90	1269.4 541.9
VANO 20	42.00	654.78	597.24	-76.16	0.00	0.00	0.87	44.00	42.00	-367.67	0.00	0.00	1372.60	361.19	567.95	308.74	1372.6 567.9
VANO 20	43.20	698.12	627.52	-75.18	0.00	0.00	0.87	45.00	43.20	-367.67	0.00	0.00	1476.52	421.17	594.21	291.79	1476.5 594.2
VANO 20	43.20	698.12	627.52	-75.18	0.00	0.00	0.87	46.00	43.20	-367.67	0.00	0.00	1476.52	421.17	594.21	291.79	1476.5 594.2
VANO 20	44.40	741.46	658.28	-74.51	0.00	0.00	0.87	47.00	44.40	-367.67	0.00	0.00	1581.17	480.68	620.70	302.24	1581.2 620.7
VANO 20	45.60	784.79	689.48	-74.02	0.00	0.00	0.87	48.00	45.60	-367.67	0.00	0.00	1686.47	539.92	647.41	312.69	1686.5 647.4
VANO 20	46.80	828.13	721.08	-73.71	0.00	0.00	0.87	49.00	46.80	-367.67	0.00	0.00	1792.38	598.89	674.34	323.14	1792.4 674.3

RESUMEN DE ESFUERZOS CORTANTES

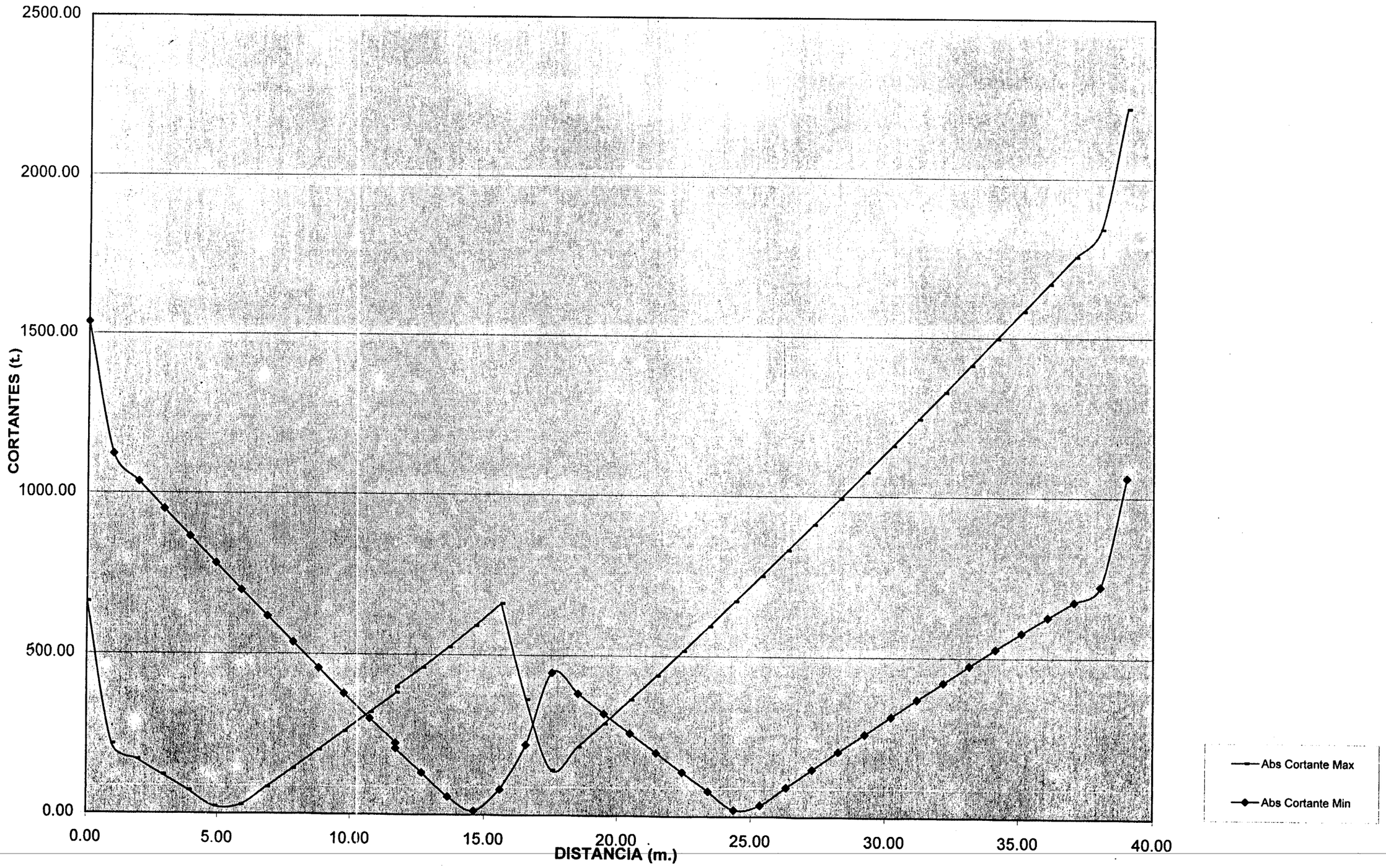
CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

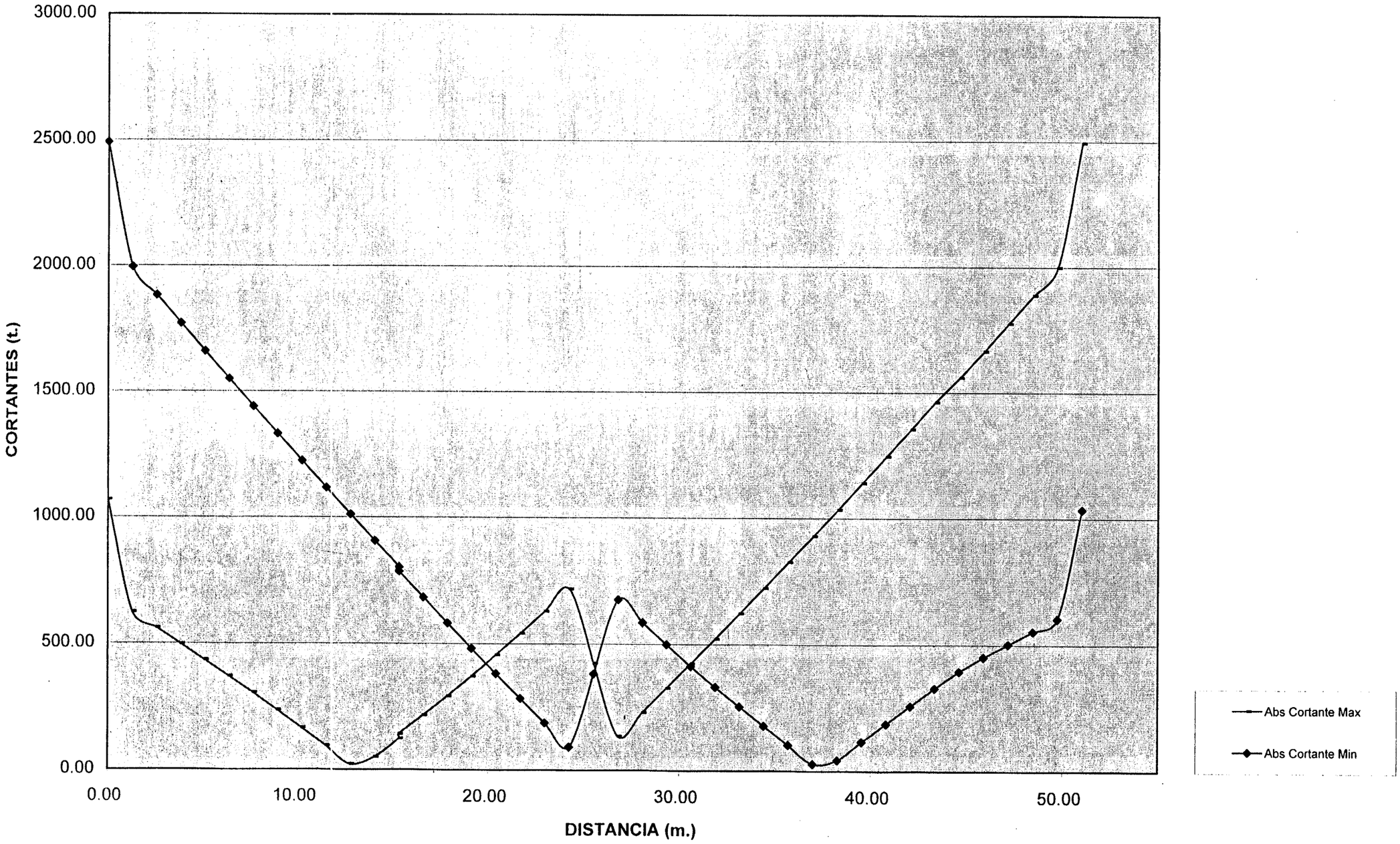
PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

									MULTIPLICADOR(Perdidas x Coef.Seg)							
		1	1	1	0.6	0.6	0.6			0.84	0.80	0.80				
		CARGAS	POSITIVOS Envolv	NEGATIVOS Envolv	POSITIV	NEGATIV				CORTANTE Pret	CORTANTE Pret	CORTANTE Pret	ESFUERZOS MAYORADOS CORTANT	CORTANT	CORT +	CORT -	ESFUERZO DE CÁLCULO	
													POSITIVO	NEGATIVO				
VANO 21	0.00	-876.86	57.71	-738.72	0.00	0.00	-3.47	1.00	0.00	0.00	0.00	0.00	1097.20	2295.31	124.57	303.03	2295.3	303.0
VANO 21	1.20	-833.53	58.01	-706.74	0.00	0.00	-3.47	2.00	1.20	367.67	0.00	0.00	629.73	1780.31	136.23	286.39	1780.3	286.4
VANO 21	2.40	-790.19	58.64	-675.12	0.00	0.00	-3.47	3.00	2.40	367.67	0.00	0.00	570.27	1674.38	148.14	269.99	1674.4	270.0
VANO 21	3.60	-746.85	59.62	-643.92	0.00	0.00	-3.47	4.00	3.60	367.67	0.00	0.00	510.29	1569.07	160.27	253.81	1569.1	253.8
VANO 21	4.80	-703.51	60.99	-613.16	0.00	0.00	-3.47	5.00	4.80	367.67	0.00	0.00	449.74	1464.42	172.65	237.86	1464.4	237.9
VANO 21	4.80	-703.51	60.99	-613.16	0.00	0.00	-3.47	6.00	4.80	367.67	0.00	0.00	449.74	1464.42	172.65	237.86	1464.4	237.9
VANO 21	6.00	-660.17	62.75	-582.89	0.00	0.00	-3.47	7.00	6.00	367.67	0.00	0.00	388.59	1360.51	185.26	222.14	1360.5	222.1
VANO 21	7.20	-616.84	65.93	-553.14	0.00	0.00	-3.47	8.00	7.20	367.67	0.00	0.00	325.31	1257.38	213.35	206.65	1257.4	206.6
VANO 21	8.40	-573.50	70.92	-523.94	0.00	0.00	-3.47	9.00	8.40	367.67	0.00	0.00	259.32	1155.08	227.80	196.47	1155.1	196.5
VANO 21	9.60	-530.16	76.47	-495.33	0.00	0.00	-3.47	10.00	9.60	367.67	0.00	0.00	192.48	1053.66	242.48	206.80	1053.7	206.8
VANO 21	9.60	-530.16	76.47	-495.33	0.00	0.00	-3.47	11.00	9.60	367.67	0.00	0.00	192.48	1053.66	242.48	206.80	1053.7	206.8
VANO 21	10.80	-486.82	82.60	-467.34	0.00	0.00	-3.47	12.00	10.80	367.67	0.00	0.00	124.79	953.16	257.40	217.13	953.2	217.1
VANO 21	12.00	-443.48	89.30	-439.99	0.00	0.00	-3.47	13.00	12.00	367.67	0.00	0.00	56.23	853.63	272.55	227.45	853.6	227.5
VANO 21	13.20	-400.15	96.59	-413.31	0.00	0.00	-3.47	14.00	13.20	367.67	0.00	0.00	13.21	755.10	287.94	237.78	755.1	237.8
VANO 21	14.40	-356.81	104.47	-387.33	0.00	0.00	-3.47	15.00	14.40	367.67	0.00	0.00	83.54	657.62	303.57	248.11	657.6	248.1
VANO 21	14.40	-344.26	104.47	-387.33	0.00	0.00	-3.47	16.00	14.40	367.67	0.00	0.00	100.48	640.68	303.57	248.11	640.7	248.1
VANO 21	15.60	-300.92	112.94	-362.06	0.00	0.00	-3.47	17.00	15.60	367.67	0.00	0.00	171.70	544.28	319.43	258.43	544.3	258.4
VANO 21	16.80	-257.58	122.01	-337.54	0.00	0.00	-3.47	18.00	16.80	367.67	0.00	0.00	243.80	448.99	335.53	268.76	449.0	268.8
VANO 21	18.00	-214.24	131.67	-313.78	0.00	0.00	-3.47	19.00	18.00	367.67	0.00	0.00	316.80	354.85	351.87	279.09	354.8	279.1
VANO 21	19.20	-170.91	141.93	-290.82	0.00	0.00	-3.47	20.00	19.20	367.67	0.00	0.00	390.69	261.89	368.44	289.41	390.7	368.4
VANO 21	19.20	-170.91	141.93	-290.82	0.00	0.00	-3.47	21.00	19.20	367.67	0.00	0.00	390.69	261.89	368.44	289.41	390.7	368.4
VANO 21	20.40	-127.57	154.78	-268.71	0.00	0.00	-3.47	22.00	20.40	367.67	0.00	0.00	468.48	170.23	375.14	299.74	468.5	375.1
VANO 21	21.60	-84.23	170.64	-247.49	0.00	0.00	-3.47	23.00	21.60	367.67	0.00	0.00	550.77	79.89	397.31	310.07	550.8	397.3
VANO 21	22.80	-40.89	187.38	-227.15	0.00	0.00	-3.47	24.00	22.80	367.67	0.00	0.00	634.38	9.13	419.76	320.39	634.4	419.8
VANO 21	24.00	2.45	205.00	-207.69	0.00	0.00	-3.47	25.00	24.00	0.00	0.00	0.00	310.81	311.70	442.49	330.72	311.7	330.7
VANO 21	24.00	2.45	205.00	-207.69	0.00	0.00	-3.47	26.00	24.00	0.00	0.00	0.00	310.81	311.70	442.49	330.72	311.7	330.7
VANO 21	25.20	45.78	224.59	-190.20	0.00	0.00	-3.47	27.00	25.20	-367.67	0.00	0.00	9.83	635.47	465.49	341.05	635.5	341.0
VANO 21	26.40	89.12	245.18	-173.71	0.00	0.00	-3.47	28.00	26.40	-367.67	0.00	0.00	79.57	552.24	488.78	361.32	552.2	361.3
VANO 21	27.60	132.46	266.66	-158.11	0.00	0.00	-3.47	29.00	27.60	-367.67	0.00	0.00	170.29	470.33	512.35	383.04	470.3	383.0
VANO 21	28.80	175.80	289.01	-143.75	0.00	0.00	-3.47	30.00	28.80	-367.67	0.00	0.00	262.33	390.28	536.20	372.03	390.3	372.0
VANO 21	28.80	175.80	289.01	-143.75	0.00	0.00	-3.47	31.00	28.80	-367.67	0.00	0.00	262.33	390.28	536.20	372.03	390.3	372.0
VANO 21	30.00	219.14	312.22	-133.67	0.00	0.00	-3.47	32.00	30.00	-367.67	0.00	0.00	355.65	316.66	560.21	382.35	355.7	560.2
VANO 21	31.20	262.47	336.22	-124.19	0.00	0.00	-3.47	33.00	31.20	-367.67	0.00	0.00	450.15	243.93	584.33	392.68	450.1	584.3
VANO 21	32.40	305.81	360.96	-115.31	0.00	0.00	-3.47	34.00	32.40	-367.67	0.00	0.00	545.77	172.10	608.68	403.01	545.8	608.7
VANO 21	33.60	349.15	386.43	-107.01	0.00	0.00	-3.47	35.00	33.60	-367.67	0.00	0.00	642.48	101.15	633.26	413.33	642.5	633.3
VANO 21	33.60	349.15	386.43	-107.01	0.00	0.00	-3.47	36.00	33.60	-367.67	0.00	0.00	642.48	101.15	633.26	413.33	642.5	633.3
VANO 21	34.80	392.49	412.61	-99.31	0.00	0.00	-3.47	37.00	34.80	-367.67	0.00	0.00	740.26	31.10	658.07	423.66	740.3	658.1
VANO 21	36.00	435.83	439.47	-92.20	0.00	0.00	-3.47	38.00	36.00	-367.67	0.00	0.00	839.06	38.08	683.11	437.41	839.1	683.1
VANO 21	37.20	479.16	466.99	-85.67	0.00	0.00	-3.47	39.00	37.20	-367.67	0.00	0.00	938.84	106.38	708.38	452.19	938.8	708.4
VANO 21	38.40	522.50	495.14	-79.71	0.00	0.00	-3.47	40.00	38.40	-367.67	0.00	0.00	1039.57	173.82	733.88	466.72	1039.6	733.9
VANO 21	38.40	522.50	495.14	-79.71	0.00	0.00	-3.47	41.00	38.40	-367.67	0.00	0.00	1039.57	173.82	733.88	466.72	1039.6	733.9
VANO 21	39.60	565.84	523.89	-75.77	0.00	0.00	-3.47	42.00	39.60	-367.67	0.00	0.00	1141.20	238.24	759.61	484.97	1141.2	759.6
VANO 21	40.80	609.18	553.20	-73.76	0.00	0.00	-3.47	43.00	40.80	-367.67	0.00	0.00	1243.68	299.77	785.57	475.29	1243.7	785.6
VANO 21	42.00	652.52	583.06	-72.71	0.00	0.00	-3.47	44.00	42.00	-367.67	0.00	0.00	1346.97	359.85	811.75	485.62	1347.0	811.8
VANO 21	43.20	695.86	613.41	-71.87	0.00	0.00	-3.47	45.00	43.20	-367.67	0.00	0.00	1451.01	419.62	838.17	501.70	1451.0	838.2
VANO 21	43.20	695.86	613.41	-71.87	0.00	0.00	-3.47	46.00	43.20	-367.67	0.00	0.00	1451.01	419.62	838.17	501.70	1451.0	838.2
VANO 21	44.40	739.20	644.23	-71.22	0.00	0.00	-3.47	47.00	44.40	-367.67	0.00	0.00	1555.74	479.10	864.82	517.78	1555.7	864.8
VANO 21	45.60	782.53	675.48	-70.75	0.00	0.00	-3.47	48.00	45.60	-367.67	0.00	0.00	1661.12	538.31	891.69	533.01	1661.1	891.7
VANO 21	46.80	825.87	707.11	-70.46	0.00	0.00	-3.47	49.00	46.80	-367.67	0.00	0.00	1767.08	597.25	918.80	547.44	1767.1	918.8
VANO 22	0.00	-903.20	17.49	-694.39	0.00	0.00	18.03	1.00	0.00	46.49	0.00	0.00	1114.38	2209.25	462.10	452.93	2209.3	452.9
VANO 22	0.98	-867.99	17.56	-667.98	0.00	0.00	18.03	2.00	0.98	358.85	0.00	0.00	719.64	1775.04	475.94	461.26	1775.0	461.3
VANO 22	1.95	-832.78	17.78	-641.78	0.00	0.00	18.03	3.00	1.95	358.85	0.00	0.00	671.81	1688.21	490.45	469.59	1688.2	469.6
VANO 22	2.93	-797.57	18.09	-615.81	0.00	0.00	18.03	4.00	2.93	358.85	0.00	0.00	623.81	1601.72	505.63	477.91	1601.7	477.9
VANO 22	3.90	-762.36	19.12	-590.09	0.00	0.00	18.03	5.00	3.90	358.85	0.00	0.00	574.73	1515.59	549.41	486.24	1515.6	486.2
VANO 22	3.90	-762.36	19.12	-590.09	0.00	0.00	18.03	6.00	3.90	358.85	0.00	0.00	574.73	1515.59	549.41	486.24	1515.6	486.2
VANO 22	4.88	-727.14	21.65	-564.63	0.00	0.00	18.03	7.00	4.88	358.85	0.00	0.00	523.40	1429.87	542.06	494.57	1429.9	494.6
VANO 22	5.85	-691.93	24.79	-539.48	0.00	0.00	18.03	8.00	5.85	358.85	0.00	0.00	471.15	1344.58	553.88	502.90	1344.6	502.9
VANO 22	6.83	-656.72	28.29	-514.59	0.00	0.00	18.03	9.00	6.83	358.85	0.00	0.00	418.36	1259.74	566.38	511.23	1259.7	511.2
VANO 22	7.80	-621.51	32.17	-490.05	0.00	0.00	18.03	10.00	7.80	358.85	0.00	0.00	365.00	1175.38	579.07	519.55	1175.4	519.6
VANO 22	7.80	-621.51	32.17	-490.05	0.00	0.00	18.03	11.00	7.80	358.85	0.00	0.00	365.00	1175.38	579.07	519.55	1175.4	519.6
VANO 22	8.78	-586.30	36.44	-465.84	0.00	0.00	18.03	12.00	8.78	358.85	0.00	0.00	311.06	1091.54	591.96	527.88	1091.5	527.9
VANO 22	9.75	-551.08	41.10	-442.03	0.00	0.00	18.03	13.00	9.75	358.85	0.00	0.00	256.53	1008.29	605.04	536.21	1008.3	536.2
VANO 22	10.73	-515.87	46.17	-418.73	0.00	0.00	18.03	14.00	10.73	358.85	0.00	0.00	201.40	925.80	618.33	544.54	925.8	544.5
VANO 22	11.70	-480.66	51.65	-395.96	0.00	0.00	18.03	15.00	11.70	358.85	0.00	0.00	145.65	844.11	631.80	552.87	844.1	552.9
VANO 22	11.70	-480.66	51.65	-395.96	0.00	0.00	18.03	16.00	11.70	358.85	0.00	0.00	145.65	844.11	631.80	552.87	844.1	552.9
VANO 22	12.68	-445.45	57.54	-373.74	0.00	0.00	18.03	17.00	12.68	358.85	0.00	0.00	89.27	763.24	645.48	561.18	763.2	561.2
VANO 22	13.65	-410.23	63.86	-352.07	0.00	0.00	18.03	18.00	13.65	358.85	0.00	0.00	32.25	683.20	659.35	574.55	683.2	574.5
VANO 22	14.63	-375.02	70.62	-330.98	0.00	0.00	18.03	19.00	14.63	358.85	0.00	0.00	25.42	604.03	673.41	593.27	604.0	593.3
VANO 22	15.60	-339.81	77.81	-310.47	0.00	0.00	18.03	20.00	15.60	358.85	0.00	0.00	83.74	525.73	687.67	611.77	525.7	611.8
VANO 22	15.60	-339.81	77.81	-310.47	0.00	0.00	18.03	21.00	15.60	358.85	0.00	0.00	83.74	525.73	687.67	611.77	525.7	611.8
VANO 22	16.58	-304.60	85.45	-290.57	0.00	0.00	18.03	22.00	16.58	358.85	0.00	0.00	142.73	448.34	702.13	630.03	448.3	630.0
VANO 22	17.55	-269.39	93.54	-271.28	0.00	0.00	18.03	23.00	17.55	358.85	0.00	0.00	202.40	371.88	716.79	648.06	371.9	648.1
VANO 22	18.53	-234.17	102.08	-252.62	0.00	0.00	18.03	24.00	18.53	358.85	0.00	0.00	262.76	296.35	731.64	665.86	296.3	665.9
VANO 22	19.50	-198.96	111.09	-234.60	0.00	0.00	18.03	25.00	19.50	358.85	0.00	0.00	323.80	221.78	746.69	683.42	323.8	746.7
VANO 22	19.50	-198.96	111.09	-234.60	0.00	0.00	18.03	26.00	19.50	358.85	0.00	0.00	323.80	221.78	746.69	683.42	323.8	746.7
VANO 22	20.48	-163.75	121.10	-217.23	0.00	0.00	18.03	27.00	20.48	358.85	0.00	0.00	386.36	148.19	744.04	700.75	386.4	744.0
VANO 22	21.45	-128.54	132.70	-200.52	0.00	0.00	18.03	28.00	21.45	358.85	0.00	0.00	451.29	75.59	750.66	717.85	451.3	750.7
VANO 22	22.43	-93.33	144.93	-184.48	0.00	0.00	18.03	29.00	22.43	46.49	0.00	0.00	170.11	351.06	757.06	734.72	351.1	734.7
VANO 22	23.40	-58.11	157.80	-169.12	0.00	0.00	18.03	30.00	23.40	-334.27	0.00	0.00	186.11	703.55	763.23	751.35	703.6	751.3
VANO 22	23.40	-45.56	157.80	-169.12	0.00	0.00	18.03	31.00	23.40	-334.27	0.00	0.00	169.17	686.61	763.23	751.35	686.6	751.3
VANO 22	24.38	-10.35	171.40	-154.53	0.00	0.00	18.03	32.00	24.38	-334.27	0.00	0.00	101.23	617.19	769.18	767.75	617.2	767.7
VANO 22	25.35	24.86	186.51	-141.54	0.00	0.00	18.03	33.00	25.35	-334.27	0.00	0.00	31.04	550.16	780.10	783.92	550.2	783.9
VANO 22	26.33	60.07	203.71	-131.01	0.00	0.00	18.03	34.00	26.33	-334.27	0.00	0.00	42.31	486.82	916.98	705.22	486.8	705.2
VANO 22	27.30	95.29	222.27	-121.84	0.00	0.00	18.03	35.00	27.30	-334.27	0.00	0.00	117.68	425.53	937.95	717.40	425.5	717.4
VANO 22	27.30	95.29	222.27	-121.84	0.00	0.00	18.03	36.00	27.30	-334.27	0.00	0.00	117.68	425.53	937.95	717.40	425.5	717.4
VANO 22	28.28	130.50	241.54	-113.10	0.00	0.00	18.03	37.00	28.28	-334.27	0.00	0.00	194.13	364.89	959.15	729.38	364.9	729.4
VANO 22	29.25	165.71	261.54	-104.80	0.00	0.00	18.03	38.00	29.25	-334.27	0.00	0.00	271.66	304.91	980.58	741.17	304.9	741.2
VANO 22	30.23	200.92	282.27	-96.95	0.00	0.00	18.03	39.00	30.23	-334.27	0.00	0.00	350.29	245.59	1002.05	752.75	350.3	1002.0
VANO 22	31.20	236.13	303.68	-89.54	0.00	0.00	18.03	40.00	31.20	-334.27	0.00	0.00	429.93	186.95	1023.59	764.15	429.9	1023.6
VANO 22	31.20	236.13	303.68	-89.54	0.00	0.00	18.03	41.00	31.20	-334.27	0.00	0.00	429.93	186.95	1023.59	764.15	429.9	1023.6
VANO 22	32.18	271.35	325.76	-82.59	0.00	0.00	18.03	42.00	32.18	-334.27	0.00	0.00	510.60	128.99	1045.32	775.34	510.6	1045.3
VANO 22	33.15	306.56	348.53	-77.38	0.00	0.00	18.03	43.00	33.15	-334.27	0.00	0.00	592.29	73.64	1067.25	786.09	592.3	1067.2
VANO 22	34.13	341.77	371.98	-74.63	0.00	0.00	18.03	44.00	34.13	-334.27	0.00	0.00	675.00	21.96	1089.36	797.96	675.0	1089.4
VANO 22	35.10	376.98	396.11	-73.55	0.00	0.00	18.03	45.00	35.1	-334.27	0.00	0.00	758.73	27.19	1111.67	779.35	758.7	1111.7
VANO 22	35.10	543.05	396.11	-73.55	0.00	0.00	18.03	46.00	35.1	-334.27	0.00	0.00	982.91	251.38	1111.67	779.35	982.9	1111.7
VANO 22	36.08	578.26	420.91	-72.71	0.00	0.00	18.03	47.00	36.075	-334.27	0.00	0.00	1067.66	300.18	1134.16	790.07	1067.7	1134.2
VANO 22	37.05	613.47	446.40	-72.10	0.00	0.00	18.03	48.00	37.05	-334.27	0.00	0.00	1153.42	348.62	1156.85	800.11	1153.4	1156.8
VANO 22	38.03	648.68	472.55	-71.74	0.00	0.00	18.03	49.00	38.025	-334.27	0.00	0.00	1240.19	396.70	1179.72	809.47	1240.2	1156.8
VANO 22	39.00	683.89	499.38	-71.62	0.00	0.00	18.03	50.00	39	46.09	0.00	0.00	1750.60	867.04	1202.79	818.16	1750.6	1202.8

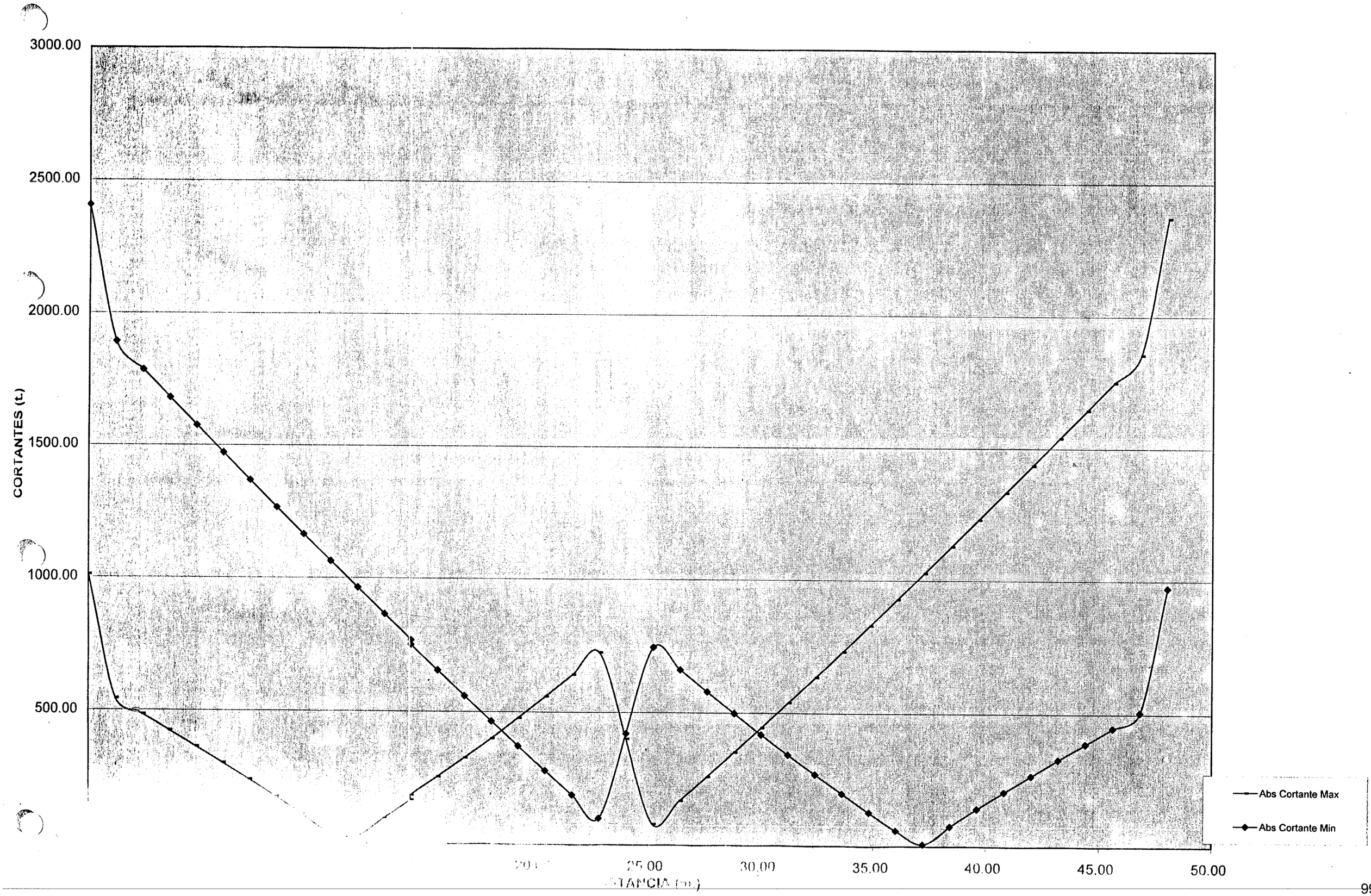
COTANTES MAYORADOS VANO 1



CORTANTES MAYORADOS VANO4



CORTANTES MAYORADOS VANO 6



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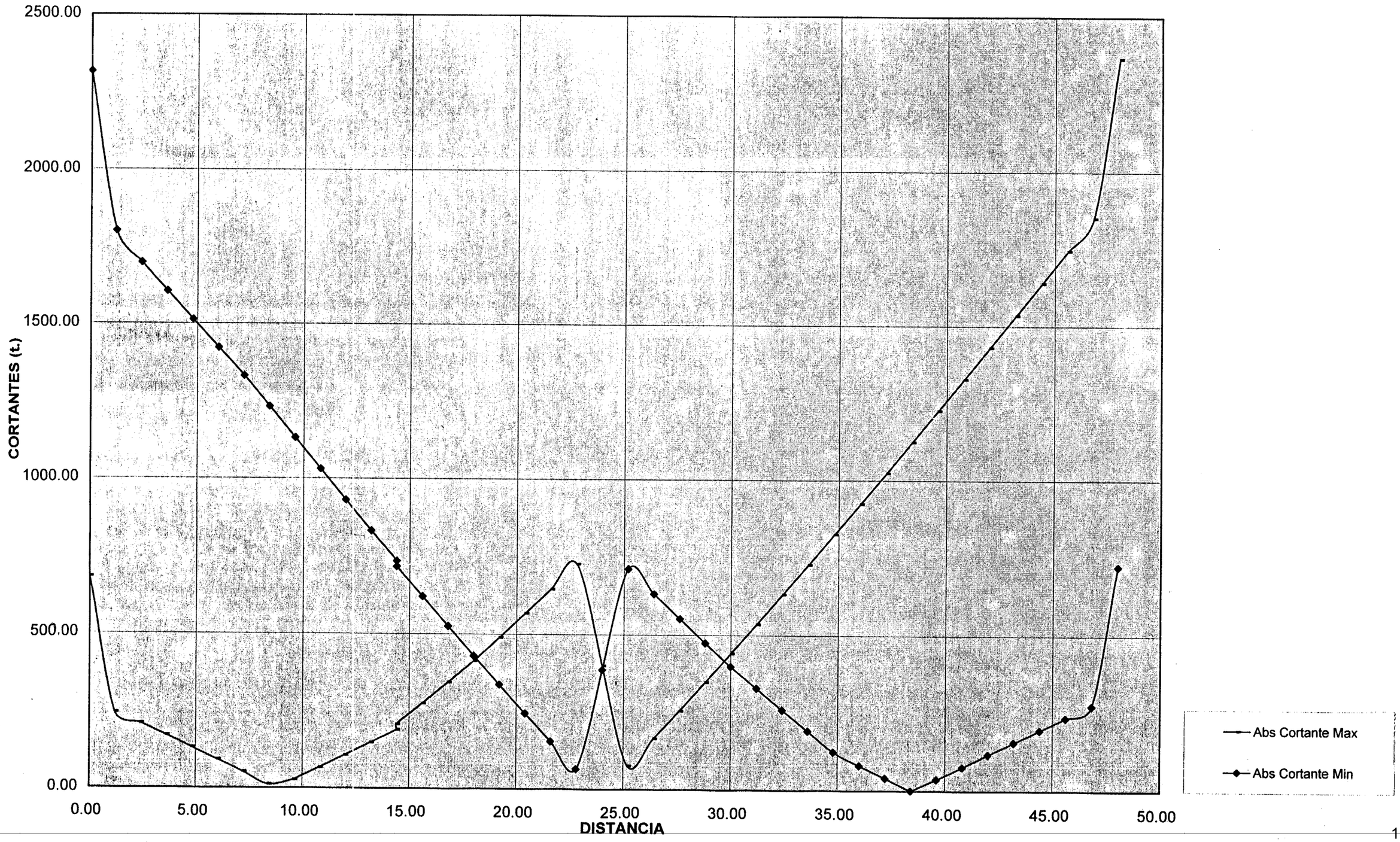


Esfuerzos torsores de cálculo

RESUMEN DE ESFUERZOS TORSORES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

		1	1	1	1	1	0.6	0.6	0.6	MULTIPLICADOR(Perdidas x Coef.Seg)			ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
		CARGAS	POSITIVOS ENVOLVENTE	NEGATIVOS ENVOLVENTE	POSITIV	NEGATIV	POSITIV	NEGATIV	Sobrec	0.84 TORSOR PRETENSADO	0.80 TORSOR PRETENSADO	0.80 TORSOR PRETENSADO	TORSOR	TORSOR	TORSOR +	TORSOR -	TORSOR	CORTAN
VANO 1	0.00	0.00	1054.06	-637.20	174.26	0.00	244.56	0.00	29.15	0.00	0.00	0.00	2253.04	955.79	1061.72	1066.55	2253.04	1061.72
VANO 1	0.98	0.00	1017.99	-617.73	170.77	0.00	238.53	0.00	28.67	0.98	0.00	0.00	2183.96	926.59	992.87	996.45	2183.96	992.87
VANO 1	1.95	0.00	983.04	-599.47	167.29	0.00	232.51	0.00	28.19	1.95	0.00	0.00	2116.53	899.21	923.74	926.56	2116.53	923.74
VANO 1	2.93	0.00	949.27	-582.76	163.81	0.00	226.48	0.00	27.70	2.93	0.00	0.00	2050.89	874.14	854.71	856.45	2050.89	854.71
VANO 1	3.90	0.00	916.61	-567.57	160.33	0.00	220.45	0.00	27.22	3.90	0.00	0.00	1986.92	851.35	785.62	786.19	1986.92	785.62
VANO 1	3.90	0.00	916.61	-567.57	160.33	0.00	220.45	0.00	27.22	3.90	0.00	0.00	1986.92	851.35	785.62	786.19	1986.92	785.62
VANO 1	4.88	0.00	885.08	-553.58	156.85	0.00	214.42	0.00	26.74	4.88	0.00	0.00	1924.64	830.37	716.47	716.01	1924.64	716.47
VANO 1	5.85	0.00	854.67	-541.41	153.37	0.00	208.39	0.00	26.26	5.85	0.00	0.00	1864.03	812.12	647.26	645.46	1864.03	647.26
VANO 1	6.83	0.00	825.38	-530.19	149.89	0.00	202.36	0.00	25.77	6.83	0.00	0.00	1805.11	795.28	578.00	575.19	1805.11	578.00
VANO 1	7.80	0.00	797.21	-519.80	146.41	0.00	196.33	0.00	25.29	7.80	0.00	0.00	1747.86	779.70	508.70	505.17	1747.86	508.70
VANO 1	7.80	0.00	797.21	-519.80	146.41	0.00	196.33	0.00	25.29	7.80	0.00	0.00	1747.86	779.70	508.70	505.17	1747.86	508.70
VANO 1	8.78	0.00	770.16	-509.88	142.93	0.00	190.30	0.00	24.81	8.78	0.00	0.00	1692.30	764.81	439.34	435.40	1692.30	439.34
VANO 1	9.75	0.00	744.27	-500.42	139.45	0.00	184.27	0.00	24.32	9.75	0.00	0.00	1638.47	750.63	369.94	365.88	1638.47	369.94
VANO 1	10.73	0.00	719.61	-491.42	135.67	0.00	178.24	0.00	23.84	10.73	0.00	0.00	1586.49	737.13	300.50	296.62	1586.49	300.50
VANO 1	11.70	0.00	696.18	-482.88	132.49	0.00	172.21	0.00	23.36	11.70	0.00	0.00	1536.36	724.33	231.02	227.62	1536.36	231.02
VANO 1	11.70	0.00	696.18	-482.88	132.49	0.00	172.21	0.00	23.36	11.70	0.00	0.00	1536.36	724.33	214.08	210.68	1536.36	214.08
VANO 1	12.68	0.00	674.00	-474.81	129.01	0.00	166.18	0.00	22.88	12.68	0.00	0.00	1488.09	712.22	144.57	141.95	1488.09	144.57
VANO 1	13.65	0.00	653.05	-467.20	125.53	0.00	160.15	0.00	22.39	13.65	0.00	0.00	1441.68	700.80	75.02	73.49	1441.68	75.02
VANO 1	14.63	0.00	633.33	-460.16	122.04	0.00	154.12	0.00	21.91	14.63	0.00	0.00	1397.12	690.25	5.44	5.30	1397.12	5.44
VANO 1	15.60	0.00	614.86	-454.12	118.53	0.00	148.09	0.00	21.43	15.60	0.00	0.00	1354.41	681.17	65.20	62.24	1354.41	65.20
VANO 1	15.60	0.00	614.86	-454.12	118.53	0.00	148.09	0.00	21.43	15.60	0.00	0.00	1354.41	681.17	65.20	62.24	1354.41	65.20
VANO 1	16.58	0.00	597.62	-449.09	115.09	0.00	142.06	0.00	20.95	16.58	0.00	0.00	1313.56	673.63	135.56	129.13	1313.56	135.56
VANO 1	17.55	0.00	581.62	-445.08	111.63	0.00	136.03	0.00	20.46	17.55	0.00	0.00	1274.57	667.63	205.94	195.72	1274.57	205.94
VANO 1	18.53	0.00	566.85	-442.10	108.12	0.00	130.00	0.00	19.98	18.53	0.00	0.00	1237.43	663.15	276.35	262.03	1237.43	276.35
VANO 1	19.50	0.00	553.32	-440.14	104.61	0.00	123.97	0.00	19.50	19.50	0.00	0.00	1202.15	660.21	346.77	328.04	1202.15	346.77
VANO 1	19.50	0.00	553.32	-440.14	104.61	0.00	123.97	0.00	19.50	19.50	0.00	0.00	1202.15	660.21	346.77	328.04	1202.15	346.77
VANO 1	20.48	0.00	541.03	-439.20	101.13	0.00	117.94	0.00	19.02	20.48	0.00	0.00	1168.72	658.80	417.20	393.75	1168.72	417.20
VANO 1	21.45	0.00	529.97	-439.28	97.63	0.00	111.91	0.00	18.53	21.45	0.00	0.00	1137.15	658.92	487.65	459.17	1137.15	487.65
VANO 1	22.43	0.00	520.16	-440.38	94.23	0.00	105.88	0.00	18.05	22.43	0.00	0.00	1107.43	660.58	558.11	524.29	1107.43	558.11
VANO 1	23.40	0.00	511.58	-444.09	90.72	0.00	99.85	0.00	17.57	23.40	0.00	0.00	1079.57	666.14	628.58	622.03	1079.57	628.58
VANO 1	23.40	0.00	511.58	-444.09	90.72	0.00	99.85	0.00	17.57	23.40	0.00	0.00	1079.57	666.14	628.58	622.03	1079.57	628.58
VANO 1	24.38	0.00	504.23	-452.91	87.24	0.00	93.82	0.00	17.09	24.38	0.00	0.00	1053.57	679.36	699.06	691.78	1053.57	699.06
VANO 1	25.35	0.00	498.12	-462.96	83.73	0.00	87.80	0.00	16.60	25.35	0.00	0.00	1029.42	694.45	769.54	761.53	1029.42	769.54
VANO 1	26.33	0.00	493.25	-474.26	80.21	0.00	81.77	0.00	16.12	26.33	0.00	0.00	1007.12	711.39	840.03	831.29	1007.12	840.03
VANO 1	27.30	0.00	489.62	-486.79	76.73	0.00	75.74	0.00	15.64	27.30	0.00	0.00	986.68	730.19	910.52	901.04	986.68	910.52
VANO 1	27.30	0.00	489.62	-486.79	76.73	0.00	75.74	0.00	15.64	27.30	0.00	0.00	986.68	730.19	910.52	901.04	986.68	910.52
VANO 1	28.28	0.00	489.24	-502.17	73.31	0.00	72.14	-2.43	15.16	28.28	0.00	0.00	974.77	756.90	953.33	970.80	974.77	953.33
VANO 1	29.25	0.00	493.91	-520.15	69.81	0.00	70.61	-6.92	14.67	29.25	0.00	0.00	973.55	790.61	1020.65	1040.56	973.55	1020.65
VANO 1	30.23	0.00	499.04	-539.36	66.35	0.00	70.60	-11.42	14.19	30.23	0.00	0.00	975.27	826.17	1087.46	1110.31	975.27	1087.46
VANO 1	31.20	0.00	504.64	-559.72	62.87	0.00	70.58	-15.91	13.71	31.20	0.00	0.00	977.69	863.44	1153.74	1179.98	977.69	1153.74
VANO 1	31.20	0.00	504.64	-559.72	62.87	0.00	70.58	-15.91	13.71	31.20	0.00	0.00	977.69	863.44	1153.74	1179.98	977.69	1153.74
VANO 1	32.18	0.00	510.71	-581.19	59.39	0.00	70.56	-20.40	13.22	32.18	0.00	0.00	980.83	902.39	1219.50	1249.55	980.83	1219.50
VANO 1	33.15	0.00	517.66	-603.77	55.91	0.00	70.54	-24.89	12.74	33.15	0.00	0.00	985.29	943.00	1285.17	1319.00	985.29	1285.17
VANO 1	34.13	0.00	525.58	-627.46	52.41	0.00	70.53	-29.39	12.26	34.13	0.00	0.00	991.19	985.28	1350.97	1388.35	991.19	1350.97
VANO 1	35.10	0.00	535.41	-652.27	48.93	0.00	70.51	-33.88	11.78	35.10	0.00	0.00	999.97	1029.22	1416.90	1457.58	1029.22	1457.58
VANO 1	35.10	0.00	535.41	-652.27	48.93	0.00	70.51	-33.88	11.78	35.10	0.00	0.00	999.97	1029.22	1416.90	1457.58	1029.22	1457.58
VANO 1	36.08	0.00	546.39	-678.18	45.47	0.00	70.49	-38.37	11.29	36.08	0.00	0.00	1010.46	1074.83	1482.95	1526.70	1074.83	1526.70
VANO 1	37.05	0.00	558.98	-705.21	41.91	0.00	70.47	-42.87	10.81	37.05	0.00	0.00	1023.38	1122.11	1549.13	1595.71	1122.11	1595.71
VANO 1	38.03	0.00	573.10	-733.35	38.5	0.00	70.46	-47.36	10.33	38.03	0.00	0.00	1038.58	1171.06	1615.40	1664.60	1171.06	1664.60
VANO 2	0.00	0.00	1062.25	-684.58	102.09	0.00	163.14	0.00	14.84	0.00	0.00	0.00	2013.43	1026.87	1717.19	1698.31	2013.43	1717.19
VANO 2	1.20	0.00	1023.62	-662.98	97.77	0.00	155.84	0.00	14.24	1.20	0.00	0.00	1937.21	994.46	1632.96	1613.21	1937.21	1632.96
VANO 2	2.40	0.00	986.33	-642.98	93.41	0.00	148.53	0.00	13.65	2.40	0.00	0.00	1862.99	964.46	1548.60	1528.00	1862.99	1548.60
VANO 2	3.60	0.00	950.36	-624.58	89.20	0.00	141.23	0.00	13.06	3.60	0.00	0.00	1790.77	936.87	1464.10	1442.71	1790.77	1464.10
VANO 2	4.80	0.00	915.73	-607.78	84.93	0.00	133.92	0.00	12.46	4.80	0.00	0.00	1720.55	911.67	1379.46	1357.39	1720.55	1379.46
VANO 2	4.80	0.00	915.73	-607.78	84.93	0.00	133.92	0.00	12.46	4.80	0.00	0.00	1720.55	911.67	1379.46	1357.39	1720.55	1379.46
VANO 2	6.00	0.00	882.44	-593.05	80.65	0.00	126.61	0.00	11.87	6.00	0.00	0.00	1652.33	889.57	1294.69	1272.04	1652.33	1294.69
VANO 2	7.20	0.00	850.47	-579.44	76.38	0.00	119.31	0.00	11.27	7.20	0.00	0.00	1586.10	869.16	1209.80	1186.72	1586.10	1209.80
VANO 2	8.40	0.00	819.84	-567.07	72.07	0.00	112.00	0.00	10.66	8.40	0.00	0.00	1521.88	850.60	1124.79	1101.44	1521.88	1124.79
VANO 2	9.60	0.00	790.54	-555.94	67.78	0.00	104.70	0.00	10.09	9.60	0.00	0.00	1459.66	833.91	1039.67	1016.23	1459.66	1039.67
VANO 2	9.60	0.00	790.54	-555.94	67.78	0.00	104.70	0.00	10.09	9.60	0.00	0.00	1459.66	833.91	1039.67	1016.23	1459.66	1039.67
VANO 2	10.80	0.00	762.58	-546.05	63.56	0.00	97.39	0.00	9.49	10.80	0.00	0.00	1399.43	819.07	954.44	931.13	1399.43	954.44
VANO 2	12.00	0.00	735.95	-537.40	59.27	0.00	90.08	0.00	8.90	12.00	0.00	0.00	1341.21	806.10	869.10	846.15	1341.21	869.10
VANO 2	13.20	0.00	710.65	-529.98	54.98	0.00	82.78	0.00	8.30	13.20	0.00	0.00	1284.99	794.98	783.68	761.31	1284.99	783.68
VANO 2	14.40	0.00	686.68	-523.81	50.68	0.00	75.47	0.00	7.71	14.40	0.00	0.00	1230.76	785.72	698.16	676.64	1230.76	698.16
VANO 2	14.40	0.00	686.68	-523.81	50.68	0.00	75.47	0.00	7.71	14.40	0.00	0.00	1230.76	785.72	681.22	659.70	1230.76	681.22
VANO 2	15.60	0.00	664.05	-518.88	46.38	0.00	68.17	0.00	7.12	15.60	0.00	0.00	1178.54	778.32	595.63	575.21	1178.54	595.63
VANO 2	16.80	0.00	642.75	-515.03	42.08	0.00	60.86	0.00	6.52	16.80	0.00	0.00	1128.31	772.54	509.97	490.91	1128.31	509.97
VANO 2	18.00	0.00	622.78	-511.78	37.75	0.00	53.55	0.00	5.93	18.00	0.00	0.00	1080.09	767.66	424.25	406.83	1080.09	424.25
VANO 2	19.20	0.00	604.22	-509.08	33.51	0.00	46.25	0.00	5.33	19.20	0.00	0.00	1033.97	763.62	338.47	322.97	1033.97	338.47
VANO 2	19.20	0.00	604.22	-509.08	33.51	0.00	46.25	0.00	5.33	19.20	0.00	0.00	1033.97	763.62	338.47	322.97	1033.97	338.47
VANO 2	20.40	0.00	587.14	-506.93	29.23	0.00	38.94	0.00	4.74	20.40	0.00	0.00	990.07	760.40	252.66	239.35	990.07	252.66
VANO 2	21.60	0.00	571.53	-505.65	24.94	0.00	31.64	0.00	4.15	21.60	0.00	0.00	948.37	758.47	166.81	168.60	948.37	166.81
VANO 2	22.80	0.00	557.39	-511.35	20.68	0.00	24.33	0.00	3.55	22.80	0.00	0.00	908.90	767.03	80.94	81.83	908.90	80.94
VANO 2	24.00	0.00	544.73	-518.54	16.33	0.00	17.02	0.00	2.96	24.00	0.00	0.00	871.63	777.80	6.27	6.27	871.63	6.27
VANO 2	24.00	0.00	544.73	-518.54	16.33	0.00	17.02	0.00	2.96	24.00	0.00	0.00	871.63	777.80	6.27	6.27	871.63	6.27
VANO 2	25.20	0.00	533.55	-527.19	12.08	0.00	9.72	0.00	2.36	25.20	0.00	0.00	836.58	790.78	93.05	92.14	836.58	93.05
VANO 2	26.40	0.00	526.01	-539.49	7.81	0.00	7.37	-3.28	1.77	26.40	0.00	0.00	814.43	814.15	179.84	178.02	814.43	179.84
VANO 2	27.60	0.00	526.17	-554.74	3.52	0.00	7.35	-8.81	1.18	27.60	0.00	0.00	807.32	845.33	255.79	263.89	845.33	263.89
VANO 2	28.80	0.00	528.71	-571.46	0.00	-1.02	7.33	-14.34	0.58	28.80	0.00	0.00	804.92	880.25	338.73	349.73	880.25	349.73
VANO 2	28.80	0.00	528.71	-571.46	0.00	-1.02	7.33	-14.34	0.58	28.80	0.00	0.00	804.92	880.25	338.73	349.73	880.25	349.73
VANO 2	30.00	0.00	531.81	-589.66	0.00	-5.31	7.30	-19.87	-0.01	30.00	0.00	0.00	808.67	922.28	421.95	435.54	922.28	435.54
VANO 2	31.20	0.00	535.46	-609.27	0.00	-9.59	7.28	-26.81	-0.61	31.20	0.00	0.00	814.11	969.12	505.43	521.30	969.12	521.30
VANO 2	32.40	0.00	539.70	-630.21	0.00	-13.88	7.26	-34.12	-1.20	32.40	0.00	0.00	820.45	1018.51	589.17	607.01	1018.51	607.01
VANO 2	33.60	0.00	545.01	-652.50	0.00	-18.16	7.24	-41.42	-1.79	33.60	0.00	0.00	828.38	1069.92	673.13	692.65	1069.92	692.65
VANO 2	33.60	0.00	545.01	-652.50	0.00	-18.16	7.24	-41.42	-1.79	33.60	0.00	0.00	828.38	1069.92	673.13	692.65	1069.92	692.65
VANO 2	34.80	0.00	551.53	-676.11	0.00	-22.44	7.22	-48.73	-2.39	34.80	0.00	0.00	838.13	1123.32	757.32	778.23	1123.32	778.23
VANO 2	36.00	0.00	559.26	-701.07	0.00	-26.73	7.20	-56.04	-2.98	36.00	0.00	0.00	849.69	1178.74	841.70	863.72	1178.74	863.72
VANO 2	37.20	0.00	568.21	-727.37	0.00	-31.01	7.18	-63.34	-3.58	37.20	0.00	0.00	863.07	1236.16	926.27	949.13	1236.16	949.13
VANO 2	38.40	0.00	578.36	-755.00	0.00	-35.30	7.15	-70.65	-4.17	38.40	0.00	0.00	878.27	1295.59	1010.99	1034.45	1295.59	1034.45
VANO 2	38.40	0.00	578.36	-755.00	0.00	-35.30	7.15	-70.65	-4.17	38.40	0.00	0.00	878.27	1295.59	1010.99	1034.45	1295.59	1034.45
VANO 2	39.60	0.00	589.73	-783.97	0.00	-39.58	7.13	-77.95	-4.76	39.60	0.00	0.00	895.29	1357.02	1095.66	1119.66	1357.02	1119.66
VANO 2	40.80	0.00	602.30	-814.28	0.00	-43.86	7.11	-85.26	-5.36	40.80	0.00	0.00	914.12	1420.46	1180.83	1204.77	1420.46	1204.77
VANO 2	42.00	0.00	616.09	-845.92	0.00	-48.15	7.09	-92.57	-5.95	42.00	0.00	0.00	934.77	1485.91	1265.88	1289.76	1485.91	1289.76
VANO 2	43.20	0.00	630.97	-878.90	0.00	-52.43	7.07	-99.87	-6.55	43.20	0.00	0.00	957.06	1553.36	1350.98	1374.64	1553.36	1374.64
VANO 2	43.20	0.00	630.97	-878.90	0.00	-52.43	7.07	-99.87	-6.55	43.20	0.00	0.00	957.06	1553.36	1350.98	1374.64	1553.36	1374.64
VANO 2	44.40	0.00	647.92	-913.22	0.00	-56.72	7.05	-107.18	-7.14	44.40	0.00	0.00	982.45	1622.82	1436.11	1459.39	1622.82	1459.39
VANO 2	45.60	0.00	666.46	-948.88	0.00	-61.00	7.02	-114.48	-7.73	45.60	0.00	0.00	1010.23	1694.29	1521.22	1544.02	1694.29	1544.02
VANO 2	46.80	0.00	686.59	-985.88	0.00	-65.28	7.00	-121.79	-8.33	46.80	0.00	0.00	1040.39	1767.76	1606.29	1628.52	1767.76	1628.52

RESUMEN DE ESFUERZOS TORSORES

CARACTFRISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

	1	1	1	1	1	0.6	0.6	0.6	MULTIPLICADOR(Perdidas x Coef.Seg) 0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
	CARGAS	POSITIVOS ENVOLVENTE	NEGATIVOS ENVOLVENTE	POSITIV	NEGATIV	POSITIV	NEGATIV	Sobrec	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR	TORSOR	TORSOR +	TORSOR -	TORSOR	CORTAN
VANO 3	0.00	0.00	1075.85	-717.30	66.1	0.00	115.96	-18.11	7.39	0.00	0.00	0.00	0.00	1897.96	1103.11	1696.24	1685.91	1897.96	1696.24
VANO 3	1.20	0.00	1038.23	-696.46	61.8	0.00	108.82	-18.13	6.80	1.20	0.00	0.00	0.00	1823.49	1071.89	1611.91	1600.61	1823.49	1611.91
VANO 3	2.40	0.00	1001.93	-677.24	57.5	0.00	101.67	-18.15	6.20	2.40	0.00	0.00	0.00	1751.02	1043.09	1527.45	1515.20	1751.02	1527.45
VANO 3	3.60	0.00	966.96	-659.62	53.2	0.00	94.52	-18.18	5.61	3.60	0.00	0.00	0.00	1680.52	1016.70	1442.85	1429.70	1680.52	1442.85
VANO 3	4.80	0.00	933.31	-643.62	48.9	0.00	87.38	-18.20	5.01	4.80	0.00	0.00	0.00	1612.01	992.73	1358.13	1344.16	1612.01	1358.13
VANO 3	4.80	0.00	933.31	-643.62	48.9	0.00	87.38	-18.20	5.01	4.80	0.00	0.00	0.00	1612.01	992.73	1358.13	1344.16	1612.01	1358.13
VANO 3	6.00	0.00	900.99	-629.70	44.6	0.00	80.23	-18.22	4.42	6.00	0.00	0.00	0.00	1545.49	971.88	1273.28	1258.59	1545.49	1273.28
VANO 3	7.20	0.00	869.99	-616.90	40.4	0.00	73.09	-18.24	3.83	7.20	0.00	0.00	0.00	1480.95	952.71	1188.31	1173.03	1480.95	1188.31
VANO 3	8.40	0.00	840.31	-605.34	36.1	0.00	66.52	-18.26	3.23	8.40	0.00	0.00	0.00	1419.26	935.40	1103.23	1087.52	1419.26	1103.23
VANO 3	9.60	0.00	811.95	-595.01	31.8	0.00	60.99	-18.28	2.64	9.60	0.00	0.00	0.00	1361.11	919.95	1018.04	1002.07	1361.11	1018.04
VANO 3	9.60	0.00	811.95	-595.01	31.8	0.00	60.99	-18.28	2.64	9.60	0.00	0.00	0.00	1361.11	919.95	1018.04	1002.07	1361.11	1018.04
VANO 3	10.80	0.00	784.91	-586.25	27.5	0.00	55.46	-18.31	2.04	10.80	0.00	0.00	0.00	1304.95	906.83	932.75	942.41	1304.95	932.75
VANO 3	12.00	0.00	759.20	-580.18	23.2	0.00	49.93	-18.33	1.45	12.00	0.00	0.00	0.00	1250.77	897.76	847.37	856.12	1250.77	847.37
VANO 3	13.20	0.00	734.82	-575.46	18.9	0.00	44.40	-18.35	0.86	13.20	0.00	0.00	0.00	1198.58	890.72	761.89	769.74	1198.58	761.89
VANO 3	14.40	0.00	711.75	-572.10	14.7	0.00	38.87	-18.37	0.26	14.40	0.00	0.00	0.00	1148.37	885.71	676.33	683.28	1148.37	676.33
VANO 3	14.40	0.00	711.75	-572.10	14.7	0.00	38.87	-18.37	0.26	14.40	0.00	0.00	0.00	1148.37	885.71	659.38	666.34	1148.37	659.38
VANO 3	15.60	0.00	690.01	-570.10	10.4	0.00	33.34	-18.39	-0.33	15.60	0.00	0.00	0.00	1100.64	883.07	573.75	579.80	1100.64	573.75
VANO 3	16.80	0.00	669.59	-569.45	6.1	0.00	27.81	-18.41	-0.93	16.80	0.00	0.00	0.00	1055.29	882.72	488.05	493.20	1055.29	488.05
VANO 3	18.00	0.00	650.49	-570.15	1.8	-1.83	22.28	-18.44	-1.52	18.00	0.00	0.00	0.00	1011.93	887.14	402.29	406.54	1011.93	402.29
VANO 3	19.20	0.00	632.79	-572.27	0.0	-6.11	16.75	-18.46	-2.11	19.20	0.00	0.00	0.00	974.31	897.37	316.48	319.83	974.31	316.48
VANO 3	19.20	0.00	632.79	-572.27	0.0	-6.11	16.75	-18.46	-2.11	19.20	0.00	0.00	0.00	974.31	897.37	316.48	319.83	974.31	316.48
VANO 3	20.40	0.00	616.55	-575.85	0.0	-10.40	11.22	-18.48	-2.71	20.40	0.00	0.00	0.00	941.67	909.79	230.63	233.08	941.67	230.63
VANO 3	21.60	0.00	601.79	-580.89	0.0	-14.68	5.69	-18.50	-3.30	21.60	0.00	0.00	0.00	911.22	924.41	144.75	146.30	924.41	144.30
VANO 3	22.80	0.00	588.48	-587.40	0.0	-18.96	0.16	-19.98	-3.90	22.80	0.00	0.00	0.00	882.97	943.42	58.85	59.50	943.42	59.50
VANO 3	24.00	0.00	580.19	-598.92	0.0	-23.25	0.00	-26.96	-4.49	24.00	0.00	0.00	0.00	870.28	978.19	32.31	32.06	978.19	32.06
VANO 3	24.00	0.00	580.19	-598.92	0.0	-23.25	0.00	-26.96	-4.49	24.00	0.00	0.00	0.00	870.28	978.19	32.31	32.06	978.19	32.06
VANO 3	25.20	0.00	573.46	-612.01	0.0	-27.53	0.00	-34.11	-5.08	25.20	0.00	0.00	0.00	860.19	1015.56	119.12	117.97	1015.56	117.97
VANO 3	26.40	0.00	568.21	-626.57	0.0	-31.82	0.00	-41.25	-5.68	26.40	0.00	0.00	0.00	852.31	1055.14	205.93	203.88	1055.14	203.88
VANO 3	27.60	0.00	564.42	-642.59	0.0	-36.10	0.00	-48.40	-6.27	27.60	0.00	0.00	0.00	846.62	1096.91	292.73	289.78	1096.91	289.78
VANO 3	28.80	0.00	562.09	-660.08	0.0	-40.38	0.00	-55.55	-6.87	28.80	0.00	0.00	0.00	843.14	1140.88	379.50	375.65	1140.88	375.65
VANO 3	28.80	0.00	562.09	-660.08	0.0	-40.38	0.00	-55.55	-6.87	28.80	0.00	0.00	0.00	843.14	1140.88	379.50	375.65	1140.88	375.65
VANO 3	30.00	0.00	561.23	-679.03	0.0	-44.67	0.00	-62.69	-7.46	30.00	0.00	0.00	0.00	841.85	1187.05	466.23	461.48	1187.05	461.48
VANO 3	31.20	0.00	561.79	-699.38	0.0	-48.95	0.00	-69.84	-8.05	31.20	0.00	0.00	0.00	842.68	1235.32	552.92	547.27	1235.32	547.27
VANO 3	32.40	0.00	565.41	-721.06	0.0	-53.24	0.00	-76.99	-8.65	32.40	0.00	0.00	0.00	848.11	1285.57	613.69	633.01	1285.57	633.01
VANO 3	33.60	0.00	570.34	-744.06	0.0	-57.52	0.00	-84.13	-9.24	33.60	0.00	0.00	0.00	855.51	1337.80	698.13	718.69	1337.80	718.69
VANO 3	33.60	0.00	570.34	-744.06	0.0	-57.52	0.00	-84.13	-9.24	33.60	0.00	0.00	0.00	855.51	1337.80	698.13	718.69	1337.80	718.69
VANO 3	34.80	0.00	576.50	-768.38	0.0	-61.80	0.00	-91.28	-9.84	34.80	0.00	0.00	0.00	864.75	1392.03	782.75	804.29	1392.03	804.29
VANO 3	36.00	0.00	583.89	-794.03	0.0	-66.09	0.00	-98.42	-10.43	36.00	0.00	0.00	0.00	875.83	1448.24	867.54	889.82	1448.24	889.82
VANO 3	37.20	0.00	592.50	-821.00	0.0	-70.37	0.00	-105.57	-11.02	37.20	0.00	0.00	0.00	888.75	1506.44	952.49	975.27	1506.44	975.27
VANO 3	38.40	0.00	602.33	-849.30	0.0	-74.66	0.00	-112.72	-11.62	38.40	0.00	0.00	0.00	903.50	1566.63	1037.57	1060.62	1566.63	1060.62
VANO 3	38.40	0.00	602.33	-849.30	0.0	-74.66	0.00	-112.72	-11.62	38.40	0.00	0.00	0.00	903.50	1566.63	1037.57	1060.62	1566.63	1060.62
VANO 3	39.60	0.00	613.39	-878.92	0.0	-78.94	0.00	-119.86	-12.21	39.60	0.00	0.00	0.00	920.09	1628.80	1122.77	1145.87	1628.80	1145.87
VANO 3	40.80	0.00	625.68	-909.87	0.0	-83.22	0.00	-127.01	-12.81	40.80	0.00	0.00	0.00	938.52	1692.96	1208.05	1231.02	1692.96	1231.02
VANO 3	42.00	0.00	639.19	-942.14	0.0	-87.51	0.00	-134.16	-13.40	42.00	0.00	0.00	0.00	958.78	1759.11	1293.39	1316.05	1759.11	1316.05
VANO 3	43.20	0.00	653.81	-975.74	0.0	-91.79	0.00	-141.30	-13.99	43.20	0.00	0.00	0.00	980.71	1827.24	1378.77	1400.98	1827.24	1400.98
VANO 3	43.20	0.00	653.81	-975.74	0.0	-91.79	0.00	-141.30	-13.99	43.20	0.00	0.00	0.00	980.71	1827.24	1378.77	1400.98	1827.24	1400.98
VANO 3	44.40	0.00	670.51	-1010.66	0.0	-96.08	0.00	-148.45	-14.59	44.40	0.00	0.00	0.00	1005.77	1897.37	1464.14	1485.78	1897.37	1485.78
VANO 3	45.60	0.00	688.82	-1046.91	0.0	-100.36	0.00	-155.59	-15.18	45.60	0.00	0.00	0.00	1033.23	1969.48	1549.49	1570.45	1969.48	1570.45
VANO 3	46.80	0.00	708.74	-1084.48	0.0	-104.64	0.00	-162.74	-15.78	46.80	0.00	0.00	0.00	1063.10	2043.57	1634.78	1655.00	2043.57	1655.00
VANO 3	48.00	0.00	730.20	-1117.24	0.0	-108.93	0.00	-169.89	-16.37	48.00	0.00	0.00	0.00	1095.30	2118.96	1719.95	1739.41	2118.96	1739.41
VANO 4	0.00	0.00	1159.10	-755.94	107.1	0.00	163.18	0.00	13.84	0.00	0.00	0.00	0.00	2164.97	1133.90	1815.11	1806.45	2164.97	1815.11
VANO 4	1.28	0.00	1117.91	-732.54	102.6	0.00	155.52	0.00	13.20	1.28	0.00	0.00	0.00	2083.92	1098.81	1725.71	1716.44	2083.92	1725.71
VANO 4	2.55	0.00	1078.15	-710.92	98.0	0.00	147.86	0.00	12.57	2.55	0.00	0.00	0.00	2005.01	1066.37	1636.17	1626.27	2005.01	1636.17
VANO 4	3.83	0.00	1039.81	-691.07	93.5	0.00	140.20	0.00	11.94	3.83	0.00	0.00	0.00	1928.23	1036.61	1546.49	1535.96	1928.23	1546.49
VANO 4	5.10	0.00	1002.89	-673.01	88.9	0.00	132.54	0.00	11.31	5.10	0.00	0.00	0.00	1853.60	1009.51	1456.67	1445.55	1853.60	1456.67
VANO 4	5.10	0.00	1002.89	-673.01	88.9	0.00	132.54	0.00	11.31	5.10	0.00	0.00	0.00	1853.60	1009.51	1456.67	1445.55	1853.60	1456.67
VANO 4	6.38	0.00	967.40	-656.85	84.4	0.00	124.88	0.00	10.68	6.38	0.00	0.00	0.00	1781.10	985.27	1366.72	1355.09	1781.10	1366.72
VANO 4	7.65	0.00	933.34	-641.96	79.8	0.00	117.22	0.00	10.05	7.65	0.00	0.00	0.00	1710.75	962.94	1276.63	1264.60	1710.75	1276.63
VANO 4	8.93	0.00	900.70	-628.40	75.3	0.00	109.56	0.00	9.42	8.93	0.00	0.00	0.00	1642.60	942.60	1186.42	1174.13	1642.60	1186.42
VANO 4	10.20	0.00	869.48	-616.15	70.8	0.00	101.90	0.00	8.79	10.20	0.00	0.00	0.00	1576.59	924.23	1096.09	1083.71	1576.59	1096.09
VANO 4	10.20	0.00	869.48	-616.15	70.8	0.00	101.90	0.00	8.79	10.20	0.00	0.00	0.00	1576.59	924.23	1096.09	1083.71	1576.59	1096.09
VANO 4	11.48	0.00	839.69	-605.22	66.3	0.00	94.24	0.00	8.15	11.48	0.00	0.00	0.00	1512.72	907.83	1005.65	993.36	1512.72	1005.65
VANO 4	12.75	0.00	811.33	-595.61	61.8	0.00	86.58	0.00	7.52	12.75	0.00	0.00	0.00	1450.98	893.42	915.10	903.12	1450.98	915.10
VANO 4	14.03	0.00	784.39	-587.32	57.3	0.00	78.92	0.00	6.89	14.03	0.00	0.00	0.00	1391.38	880.98	824.45	813.01	1391.38	824.45
VANO 4	15.30	0.00	758.87	-581.42	52.8	0.00	71.25	0.00	6.26	15.30	0.00	0.00	0.00	1333.92	872.13	733.71	741.11	1333.92	733.71
VANO 4	15.30	0.00	758.87	-581.42	52.8	0.00	71.25	0.00	6.26	15.30	0.00	0.00	0.00	1333.92	872.13	716.77	724.17	1333.92	716.77
VANO 4	16.58	0.00	734.78	-578.25	48.3	0.00	63.59	0.00	5.63	16.58	0.00	0.00	0.00	1278.59	867.38	625.95	632.39	1278.59	625.95
VANO 4	17.85	0.00	712.12	-576.55	43.8	0.00	55.93	0.00	5.00	17.85	0.00	0.00	0.00	1225.41	864.82	535.05	540.54	1225.41	535.05
VANO 4	19.13	0.00	690.88	-576.30	39.3	0.00	48.27	0.00	4.37	19.13	0.00	0.00	0.00	1174.36	864.45	444.08	448.62	1174.36	444.08
VANO 4	20.40	0.00	671.06	-577.51	34.8	0.00	40.61	0.00	3.74	20.40	0.00	0.00	0.00	1125.44	866.27	353.07	356.64	1125.44	353.07
VANO 4	20.40	0.00	671.06	-577.51	34.8	0.00	40.61	0.00	3.74	20.40	0.00	0.00	0.00	1125.44	866.27	353.07	356.64	1125.44	353.07
VANO 4	21.68	0.00	652.69	-580.20	30.3	0.00	32.95	0.00	3.11	21.68	0.00	0.00	0.00	1078.70	870.30	262.00	264.62	1078.70	262.00
VANO 4	22.95	0.00	635.88	-584.45	25.8	0.00	25.29	0.00	2.47	22.95	0.00	0.00	0.00	1034.30	876.68	170.90	172.56	1034.30	170.90
VANO 4	24.23	0.00	620.65	-590.28	21.3	0.00	17.63	0.00	1.84	24.23	0.00	0.00	0.00	992.26	885.43	79.78	80.45	992.26	79.78
VANO 4	25.50	0.00	606.99	-597.69	16.8	0.00	9.97	0.00	1.21	25.50	0.00	0.00	0.00	952.58	896.54	28.92	28.67	952.58	28.92
VANO 4	25.50	0.00	606.99	-597.69	16.8	0.00	9.97	0.00	1.21	25.50	0.00	0.00	0.00	952.58	896.54	28.92	28.67	952.58	28.92
VANO 4	26.78	0.00	597.05	-608.81	12.3	0.00	5.55	-3.24	0.58	26.78	0.00	0.00	0.00	923.34	918.08	121.02	119.82	923.34	121.02
VANO 4	28.05	0.00	590.42	-623.25	7.8	-2.54	4.98	-9.11	-0.05	28.05	0.00	0.00	0.00	904.93	952.41	213.11	210.95	952.41	210.95
VANO 4	29.33	0.00	585.37	-639.26	3.3	-7.08	4.96	-14.99	-0.68	29.33	0.00	0.00	0.00	890.56	992.68	305.18	302.06	992.68	302.06
VANO 4	30.60	0.00	581.88	-656.84	0.0	-11.63	4.94	-20.86	-1.31	30.60	0.00	0.00	0.00	880.23	1035.31	397.22	393.15	1035.31	393.15
VANO 4	30.60	0.00	581.88	-656.84	0.0	-11.63	4.94	-20.86	-1.31	30.60	0.00	0.00	0.00	880.23	1035.31	397.22	393.15	1035.31	393.15
VANO 4	31.88	0.00	579.87	-675.86	0.0	-16.18	4.91	-28.34	-1.94	31.88	0.00	0.00	0.00	877.17	1082.51	489.22	484.19	1082.51	484.19
VANO 4	33.15	0.00	579.31	-696.30	0.0	-20.73	4.89	-36.00	-2.57	33.15	0.00	0.00	0.00	876.30	1132.12	581.17	575.18	1132.12	575.18
VANO 4	34.43	0.00	580.21	-718.17	0.0	-25.29	4.87	-43.66	-3.21	34.43	0.00	0.00	0.00	877.62	1183.87	673.06	666.12	1183.87	666.12
VANO 4	35.70	0.00	582.57	-741.45	0.0	-29.84	4.85	-51.32	-3.84	35.70	0.00	0.00	0.00	881.13	1237.75	764.88	756.98	1237.75	756.98
VANO 4	35.70	0.00	582.57	-741.45	0.0	-29.84	4.85	-51.32	-3.84	35.70	0.00	0.00	0.00	881.13	1237.75	764.88	756.98	1237.75	756.98
VANO 4	36.98	0.00	586.39	-766.17	0.0	-34.39	4.82	-58.98	-4.47	36.98	0.00	0.00	0.00	886.82	1293.77	856.62	847.76	1293.77	847.76
VANO 4	38.25	0.00	591.67	-792.30	0.0	-38.94	4.80	-66.64	-5.10	38.25	0.00	0.00	0.00	894.70	1351.93	948.27	938.46	1351.93	938.46
VANO 4	39.53	0.00	598.40	-819.86	0.0	-43.49	4.78	-74.30	-5.73	39.53	0.00	0.00	0.00	904.76	1412.22	1039.83	1029.06	1412.22	1029.06
VANO 4	40.80	0.00	608.68	-848.84	0.0	-48.05	4.75	-81.96	-6.36	40.80	0.00	0.00	0.00	920.14	1474.64	1097.69	1119.57	1474.64	1119.57
VANO 4	40.80	0.00	608.68	-848.84	0.0	-48.05	4.75	-81.96	-6.36	40.80	0.00	0.00	0.00	920.14	1474.64	1097.69	1119.57	1474.64	1119.57
VANO 4	42.08	0.00	620.45	-879.25	0.0	-52.60	4.73	-89.62	-6.99	42.08	0.00	0.00	0.00	937.77	1539.20	1187.93	1209.96	1539.20	1209.96
VANO 4	43.35	0.00	633.55	-911.08	0.0	-57.15	4.71	-97.28	-7.62	43.35	0.00	0.00	0.00	957.39	1605.89	1276.24	1300.23	1605.89	1300.23
VANO 4	44.63	0.00	647.99	-944.33	0.0	-61.70	4.68	-104.94	-8.25	44.63	0.00	0.00	0.00	979.00	1674.72	1366.91	1388.72	1674.72	1388.72
VANO 4	45.90	0.00	663.70	-979.01	0.0	-66.25	4.66	-112.60	-8.89	45.90	0.00	0.00	0.00	1002.55	1745.68	1457.25	1478.75	1745.68	1478.75
VANO 4	45.90	0.00	663.70	-979.01	0.0	-66.25	4.66	-112.60	-8.89	45.90	0.00	0.00	0.00	1002.55	1745.68	1457.25	1478.75	1745.68	1478.75
VANO 4	47.18	0.00	681.33	-1015.11	0.0	-70.80	4.64	-120.27	-9.52	47.18	0.00	0.00	0.00	1028.95	1818.78	1547.56	1568.65	1818.78	1568.65
VANO 4	48.45	0.00	700.74	-1052.63	0.0	-75.36	4.62	-127.93	-10.15	48.45	0.00	0.00	0.00	1058.03	1894.02	1637.80	1658.41	1894.02	1658.41
VANO 4	49.73	0.00	721.92	-1091.58	0.0	-79.91	4.59	-135.59	-10.78	49.73	0.00	0.00	0.00	1089.78	1971.38	1727.92	1748.03	1971.38	1748.03

RESUMEN DE ESFUERZOS TORSORES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

		MULTIPLICADOR(Perdidas x Coef.Seg)															
		1	1	1		1	0.6	0.6	0.6		0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
		CARGAS	POSITIVOS ENVOLVENTE	NEGATIVOS ENVOLVENTE	POSITIV	NEGATIV	POSITIV	NEGATIV	Sobrec		TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR	TORSOR	TORSOR +	TORSOR -	TORSOR	CORTAN
VANO 5	0.00	0.00	1170.29	-747.86	129.2	0.00	185.30	0.00	17.00	0.00	0.00	0.00	0.00	2252.71	1121.80	1844.60	1824.12	2252.71	1844.60
VANO 5	1.28	0.00	1129.63	-724.94	124.6	0.00	177.51	0.00	16.36	1.28	0.00	0.00	0.00	2172.25	1087.40	1755.13	1734.16	2172.25	1755.13
VANO 5	2.55	0.00	1090.38	-703.77	120.1	0.00	169.71	0.00	15.73	2.55	0.00	0.00	0.00	2093.91	1055.66	1665.51	1644.05	2093.91	1665.51
VANO 5	3.83	0.00	1052.55	-684.37	115.5	0.00	161.91	0.00	15.10	3.83	0.00	0.00	0.00	2017.69	1026.55	1575.76	1553.83	2017.69	1575.76
VANO 5	5.10	0.00	1016.12	-666.73	111.0	0.00	154.12	0.00	14.47	5.10	0.00	0.00	0.00	1943.60	1000.09	1485.86	1463.53	1943.60	1485.86
VANO 5	5.10	0.00	1016.12	-666.73	111.0	0.00	154.12	0.00	14.47	5.10	0.00	0.00	0.00	1943.60	1000.09	1485.86	1463.53	1943.60	1485.86
VANO 5	6.38	0.00	981.11	-650.98	106.5	0.00	146.32	0.00	13.84	6.38	0.00	0.00	0.00	1871.69	976.46	1395.84	1373.20	1871.69	1395.84
VANO 5	7.65	0.00	947.51	-636.77	102.0	0.00	138.53	0.00	13.21	7.65	0.00	0.00	0.00	1801.90	955.16	1307.36	1321.00	1801.90	1307.36
VANO 5	8.93	0.00	915.33	-625.30	97.5	0.00	130.73	0.00	12.58	8.93	0.00	0.00	0.00	1734.23	937.95	1217.08	1229.77	1734.23	1217.08
VANO 5	10.20	0.00	884.55	-615.27	93.0	0.00	122.93	0.00	11.95	10.20	0.00	0.00	0.00	1668.67	922.91	1126.70	1138.42	1668.67	1126.70
VANO 5	10.20	0.00	884.55	-615.27	93.0	0.00	122.93	0.00	11.95	10.20	0.00	0.00	0.00	1668.67	922.91	1126.70	1138.42	1668.67	1126.70
VANO 5	11.48	0.00	855.19	-606.69	88.2	0.00	115.14	0.00	11.32	11.48	0.00	0.00	0.00	1604.83	910.04	1036.20	1046.97	1604.83	1036.20
VANO 5	12.75	0.00	827.24	-599.56	83.7	0.00	107.34	0.00	10.68	12.75	0.00	0.00	0.00	1543.44	899.34	945.60	955.42	1543.44	945.60
VANO 5	14.03	0.00	800.70	-593.87	79.1	0.00	99.54	0.00	10.05	14.03	0.00	0.00	0.00	1484.16	890.80	854.91	863.77	1484.16	854.91
VANO 5	15.30	0.00	775.57	-589.63	74.5	0.00	91.75	0.00	9.42	15.30	0.00	0.00	0.00	1427.00	884.44	764.13	772.03	1427.00	764.13
VANO 5	15.30	0.00	775.57	-589.63	74.5	0.00	91.75	0.00	9.42	15.30	0.00	0.00	0.00	1427.00	884.44	747.19	755.09	1427.00	747.19
VANO 5	16.58	0.00	751.85	-586.83	70.0	0.00	83.95	0.00	8.79	16.58	0.00	0.00	0.00	1371.95	880.24	656.33	663.27	1371.95	656.33
VANO 5	17.85	0.00	729.55	-585.48	65.4	0.00	76.15	0.00	8.16	17.85	0.00	0.00	0.00	1319.03	878.22	565.40	571.39	1319.03	565.40
VANO 5	19.13	0.00	708.66	-585.57	60.9	0.00	68.36	0.00	7.53	19.13	0.00	0.00	0.00	1268.22	878.36	474.41	479.44	1268.22	474.41
VANO 5	20.40	0.00	689.18	-587.12	56.3	0.00	60.56	0.00	6.90	20.40	0.00	0.00	0.00	1219.53	880.67	383.37	387.45	1219.53	383.37
VANO 5	20.40	0.00	689.18	-587.12	56.3	0.00	60.56	0.00	6.90	20.40	0.00	0.00	0.00	1219.53	880.67	383.37	387.45	1219.53	383.37
VANO 5	21.68	0.00	671.13	-590.12	56.3	0.00	52.76	0.00	6.27	21.68	0.00	0.00	0.00	1179.82	885.18	292.29	295.41	1179.82	292.29
VANO 5	22.95	0.00	654.63	-594.67	56.3	0.00	44.97	0.00	5.64	22.95	0.00	0.00	0.00	1142.43	892.01	201.18	203.34	1142.43	201.18
VANO 5	24.23	0.00	639.69	-600.79	56.3	0.00	37.17	0.00	5.00	24.23	0.00	0.00	0.00	1107.38	901.18	110.05	111.26	1107.38	110.05
VANO 5	25.50	0.00	626.32	-608.47	56.3	0.00	29.37	0.00	4.37	25.50	0.00	0.00	0.00	1074.68	912.71	18.91	19.17	1074.68	18.91
VANO 5	25.50	0.00	626.32	-608.47	22.6	-10.93	29.37	0.00	4.37	25.50	0.00	0.00	0.00	1024.10	929.10	18.91	19.17	1024.10	18.91
VANO 5	26.78	0.00	614.89	-618.09	18.1	-10.93	22.14	-0.57	3.74	26.78	0.00	0.00	0.00	988.33	944.38	74.59	73.89	988.33	74.59
VANO 5	28.05	0.00	608.52	-632.77	13.5	-10.93	20.22	-6.44	3.11	28.05	0.00	0.00	0.00	968.12	975.22	166.67	165.01	975.22	165.01
VANO 5	29.33	0.00	603.71	-649.02	9.0	-10.93	18.30	-12.32	2.48	29.33	0.00	0.00	0.00	950.25	1008.40	258.72	256.11	1008.40	256.11
VANO 5	30.60	0.00	600.46	-666.81	4.4	-10.93	16.81	-18.19	1.85	30.60	0.00	0.00	0.00	935.36	1043.90	350.74	347.17	1043.90	347.17
VANO 5	30.60	0.00	600.46	-666.81	4.4	-10.93	16.81	-18.19	1.85	30.60	0.00	0.00	0.00	935.36	1043.90	350.74	347.17	1043.90	347.17
VANO 5	31.88	0.00	598.66	-686.04	0.0	-15.48	16.79	-24.07	1.22	31.88	0.00	0.00	0.00	925.00	1088.38	442.71	438.19	1088.38	438.19
VANO 5	33.15	0.00	598.32	-706.68	0.0	-20.04	16.76	-29.94	0.59	33.15	0.00	0.00	0.00	923.50	1134.99	534.63	529.15	1134.99	529.15
VANO 5	34.43	0.00	599.42	-728.73	0.0	-24.59	16.74	-35.82	-0.04	34.43	0.00	0.00	0.00	924.24	1183.75	626.49	620.04	1183.75	620.04
VANO 5	35.70	0.00	601.97	-752.20	0.0	-29.14	16.72	-41.69	-0.68	35.70	0.00	0.00	0.00	928.03	1235.22	718.26	710.87	1235.22	710.87
VANO 5	35.70	0.00	601.97	-752.20	0.0	-29.14	16.72	-41.69	-0.68	35.70	0.00	0.00	0.00	928.03	1235.22	718.26	710.87	1235.22	710.87
VANO 5	36.98	0.00	605.97	-777.08	0.0	-33.69	16.69	-47.57	-1.31	36.98	0.00	0.00	0.00	934.00	1288.81	809.96	801.60	1288.81	801.60
VANO 5	38.25	0.00	611.41	-803.37	0.0	-38.24	16.67	-53.44	-1.94	38.25	0.00	0.00	0.00	942.13	1344.52	901.56	892.25	1344.52	892.25
VANO 5	39.53	0.00	618.91	-831.07	0.0	-42.95	16.65	-59.32	-2.57	39.53	0.00	0.00	0.00	953.33	1402.58	969.15	982.80	1402.58	982.80
VANO 5	40.80	0.00	629.41	-860.19	0.0	-48.37	16.62	-65.19	-3.20	40.80	0.00	0.00	0.00	969.05	1463.83	1059.49	1073.24	1463.83	1073.24
VANO 5	40.80	0.00	629.41	-860.19	0.0	-48.37	16.62	-65.19	-3.20	40.80	0.00	0.00	0.00	969.05	1463.83	1059.49	1073.24	1463.83	1073.24
VANO 5	42.08	0.00	641.21	-890.72	0.0	-52.87	16.60	-71.98	-3.83	42.08	0.00	0.00	0.00	986.72	1527.19	1149.90	1163.57	1527.19	1163.57
VANO 5	43.35	0.00	654.33	-922.66	0.0	-57.37	16.58	-79.78	-4.46	43.35	0.00	0.00	0.00	1006.36	1594.18	1240.36	1253.78	1594.18	1253.78
VANO 5	44.63	0.00	668.75	-956.02	0.0	-61.87	16.56	-87.58	-5.09	44.63	0.00	0.00	0.00	1027.96	1663.29	1330.83	1343.87	1663.29	1343.87
VANO 5	45.90	0.00	684.44	-990.79	0.0	-66.37	16.53	-95.37	-5.72	45.90	0.00	0.00	0.00	1051.46	1734.52	1421.28	1433.83	1734.52	1433.83
VANO 5	45.90	0.00	684.44	-990.79	0.0	-66.37	16.53	-95.37	-5.72	45.90	0.00	0.00	0.00	1051.46	1734.52	1421.28	1433.83	1734.52	1433.83
VANO 5	47.18	0.00	702.02	-1026.97	0.0	-70.87	16.51	-103.17	-6.36	47.18	0.00	0.00	0.00	1077.80	1807.87	1511.68	1523.65	1807.87	1523.65
VANO 5	48.45	0.00	721.36	-1064.56	0.0	-75.38	16.49	-110.97	-6.99	48.45	0.00	0.00	0.00	1106.77	1883.34	1601.98	1613.33	1883.34	1613.33
VANO 5	49.73	0.00	742.45	-1103.57	0.0	-79.88	16.46	-118.76	-7.62	49.73	0.00	0.00	0.00	1138.38	1960.93	1692.15	1702.88	1960.93	1702.88
VANO 6	51.00	0.00	766.31	-1143.96	0.0	-84.38	16.44	-126.56	-8.25	51.00	0.00	0.00	0.00	1172.63	2040.84	1782.14	1792.27	2040.84	1792.27
VANO 6	0.00	0.00	1183.87	-753.78	137.93	0.00	214.18	0.00	22.02	0.00	0.00	0.00	0.00	2337.01	1130.67	1742.10	1760.36	2337.01	1742.10
VANO 6	1.20	0.00	1145.45	-734.69	133.65	0.00	206.81	0.00	21.43	1.20	0.00	0.00	0.00	2261.00	1102.03	1657.69	1675.05	2261.00	1657.69
VANO 6	2.40	0.00	1108.32	-716.93	129.36	0.00	199.44	0.00	20.83	2.40	0.00	0.00	0.00	2186.94	1075.39	1573.15	1589.61	2186.94	1573.15
VANO 6	3.60	0.00	1072.51	-700.50	125.08	0.00	192.07	0.00	20.24	3.60	0.00	0.00	0.00	2114.84	1050.75	1488.48	1504.04	2114.84	1488.48
VANO 6	4.80	0.00	1037.99	-685.41	120.79	0.00	184.70	0.00	19.64	4.80	0.00	0.00	0.00	2044.70	1028.12	1403.69	1418.34	2044.70	1403.69
VANO 6	4.80	0.00	1037.99	-685.41	120.79	0.00	184.70	0.00	19.64	4.80	0.00	0.00	0.00	2044.70	1028.12	1403.69	1418.34	2044.70	1403.69
VANO 6	6.00	0.00	1004.78	-671.66	116.51	0.00	177.33	0.00	19.05	6.00	0.00	0.00	0.00	1976.50	1007.48	1318.78	1332.53	1976.50	1318.78
VANO 6	7.20	0.00	972.87	-659.24	112.23	0.00	169.96	0.00	18.46	7.20	0.00	0.00	0.00	1910.27	988.85	1233.75	1246.00	1910.27	1233.75
VANO 6	8.40	0.00	942.26	-648.15	107.94	0.00	162.59	0.00	17.86	8.40	0.00	0.00	0.00	1845.99	972.23	1148.61	1160.56	1845.99	1148.61
VANO 6	9.60	0.00	912.96	-638.40	103.66	0.00	155.22	0.00	17.27	9.60	0.00	0.00	0.00	1783.66	957.60	1063.36	1074.42	1783.66	1063.36
VANO 6	9.60	0.00	912.96	-638.40	103.66	0.00	155.22	0.00	17.27	9.60	0.00	0.00	0.00	1783.66	957.60	1063.36	1074.42	1783.66	1063.36
VANO 6	10.80	0.00	884.96	-629.99	99.37	0.00	147.85	0.00	16.67	10.80	0.00	0.00	0.00	1723.29	944.98	978.02	988.17	1723.29	978.02
VANO 6	12.00	0.00	858.26	-622.91	95.09	0.00	140.48	0.00	16.08	12.00	0.00	0.00	0.00	1664.87	934.36	892.58	901.84	1664.87	892.58
VANO 6	13.20	0.00	832.87	-617.16	90.81	0.00	133.11	0.00	15.49	13.20	0.00	0.00	0.00	1608.41	925.74	807.06	815.42	1608.41	807.06
VANO 6	14.40	0.00	808.78	-612.75	86.52	0.00	125.74	0.00	14.89	14.40	0.00	0.00	0.00	1553.90	919.13	721.46	728.92	1553.90	721.46
VANO 6	14.40	0.00	808.78	-612.75	86.52	0.00	125.74	0.00	14.89	14.40	0.00	0.00	0.00	1553.90	919.13	704.52	711.98	1553.90	704.52
VANO 6	15.60	0.00	785.99	-609.68	82.24	0.00	118.37	0.00	14.30	15.60	0.00	0.00	0.00	1501.35	914.51	618.85	625.41	1501.35	618.85
VANO 6	16.80	0.00	764.51	-607.94	77.95	0.00	111.00	0.00	13.70	16.80	0.00	0.00	0.00	1450.76	911.90	533.12	538.78	1450.76	533.12
VANO 6	18.00	0.00	744.33	-607.53	73.67	0.00	103.63	0.00	13.11	18.00	0.00	0.00	0.00	1402.11	911.30	447.34	452.09	1402.11	447.34
VANO 6	19.20	0.00	725.52	-608.52	69.39	0.00	96.26	0.00	12.52	19.20	0.00	0.00	0.00	1355.53	912.77	361.51	365.37	1355.53	361.51
VANO 6	19.20	0.00	725.52	-608.52	69.39	0.00	96.26	0.00	12.52	19.20	0.00	0.00	0.00	1355.53	912.77	361.51	365.37	1355.53	361.51
VANO 6	20.40	0.00	708.16	-610.94	65.10	0.00	88.89	0.00	11.92	20.40	0.00	0.00	0.00	1311.11	916.41	275.65	278.61	1311.11	275.65
VANO 6	21.60	0.00	692.24	-614.81	60.82	0.00	81.52	0.00	11.33	21.60	0.00	0.00	0.00	1268.86	922.22	189.76	191.82	1268.86	189.76
VANO 6	22.80	0.00	677.76	-620.12	56.53	0.00	74.15	0.00	10.73	22.80	0.00	0.00	0.00	1228.77	930.19	103.88	105.01	1228.77	103.88
VANO 6	24.00	0.00	664.72	-626.88	52.25	0.00	66.78	0.00	10.14	24.00	0.00	0.00	0.00	1190.84	940.32	17.95	18.20	1190.84	17.95
VANO 6	24.00	0.00	664.72	-626.88	52.25	0.00	66.78	0.00	10.14	24.00	0.00	0.00	0.00	1190.84	940.32	17.95	18.20	1190.84	17.95
VANO 6	25.20	0.00	653.13	-635.08	47.97	0.00	59.41	0.00	9.55	25.20	0.00	0.00	0.00	1155.08	952.62	85.59	84.95	1155.08	85.59
VANO 6	26.40	0.00	642.97	-644.72	43.68	0.00	52.04	0.00	8.95	26.40	0.00	0.00	0.00	1121.48	967.08	172.39	170.84	1121.48	172.39
VANO 6	27.60	0.00	637.88	-659.42	39.40	0.00	50.15	-5.48	8.36	27.60	0.00	0.00	0.00	1103.68	997.34	259.16	256.72	1103.68	259.16
VANO 6	28.80	0.00	634.26	-675.59	35.11	0.00	48.31	-11.01	7.76	28.80	0.00	0.00	0.00	1088.18	1029.90	345.91	342.56	1088.18	345.91
VANO 6	28.80	0.00	634.26	-675.59	35.11	0.00	48.31	-11.01	7.76	28.80	0.00	0.00	0.00	1088.18	1029.90	345.91	342.56	1088.18	345.91
VANO 6	30.00	0.00	632.09	-693.21	30.83	0.00	46.47	-16.54	7.17	30.00	0.00	0.00	0.00	1074.84	1064.62	432.61	428.37	1074.84	432.61
VANO 6	31.20	0.00	631.30	-712.20	26.55	0.00	45.32	-22.07	6.58	31.20	0.00	0.00	0.00	1064.61	1101.40	519.27	514.12	1101.40	514.12
VANO 6	32.40	0.00	631.85	-732.49	22.26	0.00	45.30	-27.60	5.98	32.40	0.00	0.00	0.00	1058.08	1140.13	605.87	599.82	1140.13	599.82
VANO 6	33.60	0.00	633.73	-754.09	17.98	0.00	45.28	-33.13	5.39	33.60	0.00	0.00	0.00	1053.56	1180.82	692.40	685.45	1180.82	685.45
VANO 6	33.60	0.00	633.73	-754.09	17.98	0.00	45.28	-33.13	5.39	33.60	0.00	0.00	0.00	1053.56	1180.82	692.40	685.45	1180.82	685.45
VANO 6	34.80	0.00	636.95	-776.99	13.69	0.00	45.25	-38.65	4.79	34.80	0.00	0.00	0.00	1051.03	1223.46	778.86	771.01	1223.46	771.01
VANO 6	36.00	0.00	641.50	-801.19	9.41	0.00	45.23	-44.18	4.20	36.00	0.00	0.00	0.00	1050.51	1268.06	865.24	856.49	1268.06	856.49
VANO 6	37.20	0.00	647.38	-826.69	5.13	-3.88	45.21	-49.71	3.61	37.20	0.00	0.00	0.00	1051.98	1320.43	951.52	941.88	1320.43	941.88
VANO 6	38.40	0.00	654.60	-853.50	0.84	-8.16	45.19	-55.24	3.01	38.40	0.00	0.00	0.00	1055.46	1375.36	1037.72	1027.17	1375.36	1027.17
VANO 6	38.40	0.00	654.60	-853.50	0.84	-8.16	45.19	-55.24	3.01	38.40	0.00	0.00	0.00	1055.46	1375.36	1037.72	1027.17	1375.36	1027.17
VANO 6	39.60	0.00	663.15	-881.61	0.00	-12.45	45.17	-60.77	2.42	39.60	0.00	0.00	0.00	1066.10	1432.24	1123.80	1112.36	1432.24	1112.36
VANO 6	40.80	0.00	673.04	-911.02	0.00	-16.73	45.15	-66.30	1.82	40.80	0.00	0.00	0.00	1080.01	1491.08	1209.79	1197.44	1491.08	1197.44
VANO 6	42.00	0.00	684.26	-941.73	0.00	-21.01	45.12	-71.83	1.23	42.00	0.00	0.00	0.00	1095.92	1551.87	1295.65	1282.41	1551.87	1282.41
VANO 6	43.20	0.00	696.81	-973.75	0.00	-25.30	45.10	-77.36	0.64	43.20	0.00	0.00	0.00	1113.83	1614.61	1381.40	1367.26	1614.61	1367.26
VANO 6	43.20	0.00	696.81	-973.75	0.00	-25.30	45.10	-77.36	0.64	43.20	0.00	0.00	0.00	1113.83	1614.61	1381.40	1367.26	1614.61	1367.26
VANO 6	44.40	0.00	710.70	-1007.07	0.00	-29.58	45.08	-82.89	0.04	44.40	0.00	0.00	0.00	1133.74	1679.31	1467.03	1451.99	1679.31	1451.99
VANO 6	45.60	0.00	725.93	-1041.69	0.00	-33.87	45.06	-88.42	-0.55	45.60	0.00	0.00	0.00	1156.48	1746.52	1552.53	1538.59	1746.52	1538.59
VANO 6	46.80	0.00	742.48	-1077.62	0.00	-38.15	45.04	-93.95	-1.15	46.80	0.00	0.00	0.00	1181.28	1815.72	1637.90	1621.06	1815.72	1621.06

RESUMEN DE ESFUERZOS TORSORES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

		1	1	1		1	0.6	0.6	0.6	MULTIPLICADOR(Perdidas x Coef.Seg)								
										0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
		CARGAS	POSITIVOS ENVOLVENTE	NEGATIVOS ENVOLVENTE	POSITIV	NEGATIV	POSITIV	NEGATIV	Sobrec	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR	TORSOR	TORSOR +	TORSOR -	TORSOR	CORTAN
VANO 7	0.00	0.00	1186.01	-758.28	137.85	0.00	217.74	0.00	22.03	0.00	0.00	0.00	2345.43	1137.41	1717.32	1735.26	2345.43	1717.32
VANO 7	1.20	0.00	1147.88	-739.47	133.55	0.00	210.27	0.00	21.44	1.20	0.00	0.00	2269.69	1109.21	1632.98	1650.02	2269.69	1632.98
VANO 7	2.40	0.00	1111.04	-722.00	129.26	0.00	202.79	0.00	20.84	2.40	0.00	0.00	2195.90	1082.99	1548.51	1564.65	2195.90	1548.51
VANO 7	3.60	0.00	1075.50	-705.85	124.98	0.00	195.31	0.00	20.25	3.60	0.00	0.00	2124.05	1058.77	1463.91	1479.15	2124.05	1463.91
VANO 7	4.80	0.00	1041.25	-691.02	120.69	0.00	187.83	0.00	19.66	4.80	0.00	0.00	2054.14	1038.54	1379.18	1393.52	2054.14	1379.18
VANO 7	4.80	0.00	1041.25	-691.02	120.69	0.00	187.83	0.00	19.66	4.80	0.00	0.00	2054.14	1038.54	1379.18	1393.52	2054.14	1379.18
VANO 7	6.00	0.00	1008.30	-677.53	116.41	0.00	180.35	0.00	19.06	6.00	0.00	0.00	1986.18	1016.29	1294.33	1307.77	1986.18	1294.33
VANO 7	7.20	0.00	976.64	-665.36	112.13	0.00	172.87	0.00	18.47	7.20	0.00	0.00	1920.16	998.04	1209.36	1221.90	1920.16	1209.36
VANO 7	8.40	0.00	946.28	-654.52	107.84	0.00	165.39	0.00	17.87	8.40	0.00	0.00	1856.09	981.78	1124.28	1135.92	1856.09	1124.28
VANO 7	9.60	0.00	917.22	-645.00	103.56	0.00	157.92	0.00	17.28	9.60	0.00	0.00	1793.96	967.51	1039.09	1049.83	1793.96	1039.09
VANO 7	9.60	0.00	917.22	-645.00	103.56	0.00	157.92	0.00	17.28	9.60	0.00	0.00	1793.96	967.51	1039.09	1049.83	1793.96	1039.09
VANO 7	10.80	0.00	889.45	-636.82	99.23	0.00	150.44	0.00	16.69	10.80	0.00	0.00	1733.77	955.22	953.80	963.64	1733.77	953.80
VANO 7	12.00	0.00	862.97	-629.96	94.99	0.00	142.96	0.00	16.09	12.00	0.00	0.00	1675.52	944.93	868.42	877.36	1675.52	868.42
VANO 7	13.20	0.00	837.79	-624.42	90.71	0.00	135.48	0.00	15.50	13.20	0.00	0.00	1619.22	936.63	782.95	790.99	1619.22	782.95
VANO 7	14.40	0.00	813.91	-620.21	86.42	0.00	128.00	0.00	14.90	14.40	0.00	0.00	1564.86	930.32	697.40	704.54	1564.86	697.40
VANO 7	14.40	0.00	813.91	-620.21	86.42	0.00	128.00	0.00	14.90	14.40	0.00	0.00	1564.86	930.32	680.45	687.59	1564.86	680.45
VANO 7	15.60	0.00	791.32	-617.33	82.14	0.00	120.52	0.00	14.31	15.60	0.00	0.00	1512.44	926.00	594.83	601.07	1512.44	594.83
VANO 7	16.80	0.00	770.03	-615.78	77.85	0.00	113.04	0.00	13.72	16.80	0.00	0.00	1461.97	923.67	509.14	514.48	1461.97	509.14
VANO 7	18.00	0.00	750.04	-615.55	73.57	0.00	105.57	0.00	13.12	18.00	0.00	0.00	1413.44	923.33	423.39	427.83	1413.44	423.39
VANO 7	19.20	0.00	731.41	-616.71	69.29	0.00	98.09	0.00	12.53	19.20	0.00	0.00	1366.96	925.06	337.60	341.14	1366.96	337.60
VANO 7	19.20	0.00	731.41	-616.71	69.29	0.00	98.09	0.00	12.53	19.20	0.00	0.00	1366.96	925.06	337.60	341.14	1366.96	337.60
VANO 7	20.40	0.00	714.21	-619.30	65.00	0.00	90.61	0.00	11.93	20.40	0.00	0.00	1322.63	928.95	251.77	254.41	1322.63	251.77
VANO 7	21.60	0.00	698.45	-623.32	60.72	0.00	83.13	0.00	11.34	21.60	0.00	0.00	1280.45	934.98	165.91	167.65	1280.45	165.91
VANO 7	22.80	0.00	684.12	-628.78	56.43	0.00	75.65	0.00	10.75	22.80	0.00	0.00	1240.42	943.17	80.03	80.88	1240.42	80.03
VANO 7	24.00	0.00	671.22	-635.67	52.15	0.00	68.17	0.00	10.15	24.00	0.00	0.00	1202.55	953.50	10.26	10.20	1202.55	10.26
VANO 7	24.00	0.00	671.22	-635.67	52.15	0.00	68.17	0.00	10.15	24.00	0.00	0.00	1202.55	953.50	10.26	10.20	1202.55	10.26
VANO 7	25.20	0.00	659.76	-644.00	47.87	0.00	60.69	0.00	9.56	25.20	0.00	0.00	1166.82	965.99	97.04	96.08	1166.82	97.04
VANO 7	26.40	0.00	650.12	-654.14	43.58	0.00	53.95	-0.58	8.96	26.40	0.00	0.00	1134.92	982.08	183.82	181.96	1134.92	183.82
VANO 7	27.60	0.00	645.18	-668.98	39.30	0.00	53.93	-6.11	8.37	27.60	0.00	0.00	1120.16	1012.63	270.58	267.82	1120.16	270.58
VANO 7	28.80	0.00	641.67	-685.26	35.01	0.00	53.90	-11.64	7.78	28.80	0.00	0.00	1107.55	1045.34	357.31	353.65	1107.55	357.31
VANO 7	28.80	0.00	641.67	-685.26	35.01	0.00	53.90	-11.64	7.78	28.80	0.00	0.00	1107.55	1045.34	357.31	353.65	1107.55	357.31
VANO 7	30.00	0.00	639.59	-702.97	30.73	0.00	53.88	-17.17	7.18	30.00	0.00	0.00	1097.08	1080.20	444.01	439.45	1097.08	444.01
VANO 7	31.20	0.00	638.80	-722.04	26.45	0.00	53.86	-22.70	6.59	31.20	0.00	0.00	1088.69	1117.11	530.65	525.19	1117.11	525.19
VANO 7	32.40	0.00	639.53	-742.42	22.16	0.00	53.84	-28.23	5.99	32.40	0.00	0.00	1082.30	1155.96	617.25	610.89	1155.96	610.89
VANO 7	33.60	0.00	641.50	-764.08	17.88	0.00	53.82	-33.76	5.40	33.60	0.00	0.00	1077.89	1196.76	703.77	696.51	1196.76	696.51
VANO 7	33.60	0.00	641.50	-764.08	17.88	0.00	53.82	-33.76	5.40	33.60	0.00	0.00	1077.89	1196.76	703.77	696.51	1196.76	696.51
VANO 7	34.80	0.00	644.78	-787.05	13.59	0.00	53.80	-39.29	4.81	34.80	0.00	0.00	1075.47	1239.50	790.23	782.07	1239.50	782.07
VANO 7	36.00	0.00	649.40	-811.31	9.31	0.00	53.78	-44.82	4.21	36.00	0.00	0.00	1075.04	1284.18	876.60	867.55	1284.18	867.55
VANO 7	37.20	0.00	655.34	-836.86	5.03	0.00	53.75	-50.35	3.62	37.20	0.00	0.00	1076.61	1330.81	962.89	952.93	1330.81	952.93
VANO 7	38.40	0.00	662.61	-863.71	0.74	-1.19	53.73	-55.88	3.02	38.40	0.00	0.00	1080.16	1381.16	1049.09	1038.23	1381.16	1038.23
VANO 7	38.40	0.00	662.61	-863.71	0.74	-1.19	53.73	-55.88	3.02	38.40	0.00	0.00	1080.16	1381.16	1049.09	1038.23	1381.16	1038.23
VANO 7	39.60	0.00	671.20	-891.86	0.00	-5.43	53.71	-61.40	2.43	39.60	0.00	0.00	1091.02	1438.03	1135.18	1123.42	1438.03	1123.42
VANO 7	40.80	0.00	681.13	-921.30	0.00	-9.66	53.69	-66.93	1.84	40.80	0.00	0.00	1104.98	1496.84	1221.16	1208.51	1496.84	1208.51
VANO 7	42.00	0.00	692.38	-952.03	0.00	-13.90	53.67	-72.46	1.24	42.00	0.00	0.00	1120.93	1557.59	1307.04	1293.48	1557.59	1293.48
VANO 7	43.20	0.00	704.96	-984.07	0.00	-18.13	53.65	-77.99	0.65	43.20	0.00	0.00	1138.87	1620.29	1392.79	1378.33	1620.29	1378.33
VANO 7	43.20	0.00	704.96	-984.07	0.00	-18.13	53.65	-77.99	0.65	43.20	0.00	0.00	1138.87	1620.29	1392.79	1378.33	1620.29	1378.33
VANO 7	44.40	0.00	718.86	-1017.40	0.00	-22.37	53.62	-83.52	0.05	44.40	0.00	0.00	1158.81	1684.93	1478.43	1463.07	1684.93	1463.07
VANO 7	45.60	0.00	734.09	-1052.02	0.00	-26.61	53.60	-89.05	-0.54	45.60	0.00	0.00	1181.54	1752.06	1563.94	1547.68	1752.06	1547.68
VANC 7	46.80	0.00	750.65	-1087.94	0.00	-30.84	53.58	-94.58	-1.13	46.80	0.00	0.00	1206.35	1821.18	1649.32	1632.16	1821.18	1632.16
VANO 8	0.00	0.00	1180.07	-771.86	110.49	0.00	184.01	0.00	16.68	0.00	0.00	0.00	2236.87	1157.79	1719.11	1737.12	2236.87	1719.11
VANO 8	1.20	0.00	1142.36	-753.48	106.20	0.00	176.45	0.00	16.09	1.20	0.00	0.00	2161.66	1130.22	1634.77	1651.88	2161.66	1634.77
VANO 8	2.40	0.00	1105.94	-736.41	101.92	0.00	168.90	0.00	15.50	2.40	0.00	0.00	2088.38	1104.62	1550.30	1566.52	2088.38	1550.30
VANO 8	3.60	0.00	1070.80	-720.66	97.64	0.00	161.34	0.00	14.90	3.60	0.00	0.00	2017.02	1080.99	1465.71	1481.02	2017.02	1465.71
VANO 8	4.80	0.00	1036.95	-706.23	93.35	0.00	153.79	0.00	14.31	4.80	0.00	0.00	1947.60	1059.34	1380.98	1395.39	1947.60	1380.98
VANO 8	4.80	0.00	1036.95	-706.23	93.35	0.00	153.79	0.00	14.31	4.80	0.00	0.00	1947.60	1059.34	1380.98	1395.39	1947.60	1380.98
VANO 8	6.00	0.00	1004.39	-693.11	89.07	0.00	146.23	0.00	13.71	6.00	0.00	0.00	1880.11	1039.67	1296.14	1309.65	1880.11	1296.14
VANO 8	7.20	0.00	973.11	-681.32	84.78	0.00	138.68	0.00	13.12	7.20	0.00	0.00	1814.54	1021.98	1211.17	1223.79	1814.54	1211.17
VANO 8	8.40	0.00	943.12	-670.84	80.50	0.00	131.12	0.00	12.53	8.40	0.00	0.00	1750.90	1006.26	1126.10	1137.81	1750.90	1126.10
VANO 8	9.60	0.00	914.42	-661.67	76.22	0.00	123.56	0.00	11.93	9.60	0.00	0.00	1689.20	992.51	1040.92	1051.73	1689.20	1040.92
VANO 8	9.60	0.00	914.42	-661.67	76.22	0.00	123.56	0.00	11.93	9.60	0.00	0.00	1689.20	992.51	1040.92	1051.73	1689.20	1040.92
VANO 8	10.80	0.00	887.00	-653.83	71.93	0.00	116.01	0.00	11.34	10.80	0.00	0.00	1629.42	980.74	955.63	965.55	1629.42	955.63
VANO 8	12.00	0.00	860.87	-647.30	67.65	0.00	108.45	0.00	10.74	12.00	0.00	0.00	1571.57	970.95	870.26	879.27	1571.57	870.26
VANO 8	13.20	0.00	836.02	-642.09	63.36	0.00	100.90	0.00	10.15	13.20	0.00	0.00	1515.65	963.13	784.79	792.90	1515.65	784.79
VANO 8	14.40	0.00	812.46	-638.20	59.08	0.00	93.34	0.00	9.56	14.40	0.00	0.00	1461.66	957.29	699.25	706.46	1461.66	699.25
VANO 8	14.40	0.00	812.46	-638.20	59.08	0.00	93.34	0.00	9.56	14.40	0.00	0.00	1461.66	957.29	682.30	689.52	1461.66	682.30
VANO 8	15.60	0.00	790.19	-635.62	54.80	0.00	85.79	0.00	8.96	15.60	0.00	0.00	1409.60	953.43	596.69	603.00	1409.60	596.69
VANO 8	16.80	0.00	769.20	-634.36	50.51	0.00	78.23	0.00	8.37	16.80	0.00	0.00	1359.47	951.54	511.01	516.42	1359.47	511.01
VANO 8	18.00	0.00	749.50	-634.42	46.23	0.00	70.68	0.00	7.77	18.00	0.00	0.00	1311.27	951.63	425.27	429.78	1311.27	425.27
VANO 8	19.20	0.00	731.15	-635.85	41.94	0.00	63.12	0.00	7.18	19.20	0.00	0.00	1265.10	953.77	339.48	343.10	1265.10	339.48
VANO 8	19.20	0.00	731.15	-635.85	41.94	0.00	63.12	0.00	7.18	19.20	0.00	0.00	1265.10	953.77	339.48	343.10	1265.10	339.48
VANO 8	20.40	0.00	714.23	-638.70	37.66	0.00	55.57	0.00	6.59	20.40	0.00	0.00	1221.06	956.05	253.66	256.37	1221.06	253.66
VANO 8	21.60	0.00	698.73	-642.97	33.38	0.00	48.01	0.00	5.99	21.60	0.00	0.00	1179.16	964.46	167.81	169.62	1179.16	167.81
VANO 8	22.80	0.00	684.65	-648.67	29.09	0.00	40.46	0.00	5.40	22.80	0.00	0.00	1139.40	973.01	81.94	82.86	1139.40	81.94
VANO 8	24.00	0.00	672.00	-655.80	24.81	0.00	34.33	0.00	4.80	24.00	0.00	0.00	1103.91	983.69	5.42	5.42	1103.91	5.42
VANO 8	24.00	0.00	672.00	-655.80	24.81	0.00	34.33	0.00	4.80	24.00	0.00	0.00	1103.91	983.69	5.42	5.42	1103.91	5.42
VANO 8	25.20	0.00	661.27	-664.84	20.52	0.00	29.54	-0.76	4.21	25.20	0.00	0.00	1073.32	998.41	91.80	90.91	1073.32	91.80
VANO 8	26.40	0.00	655.11	-678.46	16.24	0.00	29.52	-6.29	3.62	26.40	0.00	0.00	1056.73	1027.13	178.57	176.78	1056.73	178.57
VANO 8	27.60	0.00	650.38	-693.50	11.96	0.00	29.50	-11.82	3.02	27.60	0.00	0.00	1042.28	1057.99	265.32	262.63	1057.99	262.63
VANO 8	28.80	0.00	647.07	-709.97	7.67	0.00	29.47	-17.35	2.43	28.80	0.00	0.00	1029.96	1090.98	352.04	348.46	1090.98	348.46
VANO 8	28.80	0.00	647.07	-709.97	7.67	0.00	29.47	-17.35	2.43	28.80	0.00	0.00	1029.96	1090.98	352.04	348.46	1090.98	348.46
VANO 8	30.00	0.00	645.18	-727.86	3.39	0.00	29.45	-22.88	1.83	30.00	0.00	0.00	1019.78	1126.11	438.73	434.24	1126.11	434.24
VANO 8	31.20	0.00	644.66	-747.10	0.00	-1.31	29.43	-28.41	1.24	31.20	0.00	0.00	1013.00	1165.23	525.37	519.98	1165.23	519.98
VANO 8	32.40	0.00	645.46	-767.63	0.00	-5.54	29.41	-33.94	0.65	32.40	0.00	0.00	1013.28	1210.67	611.95	605.66	1210.67	605.66
VANO 8	33.60	0.00	647.58	-789.45	0.00	-9.78	29.39	-39.47	0.05	33.60	0.00	0.00	1015.53	1258.04	698.47	691.28	1258.04	691.28
VANO 8	33.60	0.00	647.58	-789.45	0.00	-9.78	29.39	-39.47	0.05	33.60	0.00	0.00	1015.53	1258.04	698.47	691.28	1258.04	691.28
VANO 8	34.80	0.00	651.02	-812.55	0.00	-14.02	29.37	-45.00	-0.54	34.80	0.00	0.00	1020.57	1307.89	784.92	776.83	1307.89	776.83
VANO 8	36.00	0.00	655.77	-836.94	0.00	-18.25	29.34	-50.53	-1.14	36.00	0.00	0.00	1027.67	1359.71	871.29	862.30	1359.71	862.30
VANO 8	37.20	0.00	661.83	-862.61	0.00	-22.50	29.32	-56.06	-1.73	37.20	0.00	0.00	1036.74	1413.48	957.57	947.68	1413.48	947.68
VANO 8	38.40	0.00	669.22	-889.57	0.00	-26.78	29.30	-61.59	-2.32	38.40	0.00	0.00	1047.78	1469.23	1043.75	1032.97	1469.23	1032.97
VANO 8	38.40	0.00	669.22	-889.57	0.00	-26.78	29.30	-61.59	-2.32	38.40	0.00	0.00	1047.78	1469.23	1043.75	1032.97	1469.23	1032.97
VANO 8	39.60	0.00	677.92	-917.81	0.00	-31.07	29.28	-67.12	-2.92	39.60	0.00	0.00	1060.80	1526.91	1129.84	1118.15	1526.91	1118.15
VANO 8	40.80	0.00	687.94	-947.34	0.00	-35.35	29.26	-72.87	-3.51	40.80	0.00	0.00	1075.80	1586.86	1215.82	1203.23	1586.86	1203.23
VANO 8	42.00	0.00	699.28	-978.16	0.00	-39.64	29.24	-80.43	-4.11	42.00	0.00	0.00	1092.77	1651.44	1301.68	1288.20	1651.44	1288.20
VANO 8	43.20	0.00	711.93	-1010.26	0.00	-43.92	29.22	-87.98	-4.70	43.20	0.00	0.00	1111.72	1717.95	1387.43	1373.05	1717.95	1373.05
VANO 8	43.20	0.00	711.93	-1010.26	0.00	-43.92	29.22	-87.98	-4.70	43.20	0.00	0.00	1111.72	1717.95	1387.43	1373.05	1717.95	1373.05
VANO 8	44.40	0.00	725.90	-1043.65	0.00	-48.20	29.19	-95.54	-5.29	44.40	0.00	0.00	1132.64	1786.38	1473.06	1457.77	1786.38	1457.77
VANO 8	45.60	0.00	741.19	-1078.33	0.00	-52.49	29.17	-103.09	-5.89	45.60	0.00	0.00	1155.54	1856.75	1558.56	1542.38	1856.75	1542.38
VANO 8	46.80	0.00	757.79	-1114.29	0.00	-56.77	29.15	-110.65	-6.48	46.80	0.00	0.00	1180.41	1929.04	1643.94	1626.85	1929.04	1626.85

RESUMEN DE ESFUERZOS TORSORES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF SEGURIDADAD	1.0	1.0	1.0

		1	1	1	1	1	0.6	0.6	0.6	MULTIPLICADOR(Perdidas x Coef.Seg) 0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
		CARGAS	POSITIVOS ENVOLVENTE	NEGATIVOS ENVOLVENTE	POSITIV	NEGATIV	POSITIV	NEGATIV	Sobrec	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR	TORSOR	TORSOR +	TORSOR -	TORSOR	CORTAN
VANO 9	0.00	0.00	1164.82	-780.11	74.62	0.00	136.80	-8.78	9.70	0.00	0.00	0.00	2078.91	1183.33	1719.14	1737.14	2078.91	1719.14
VANO 9	1.20	0.00	1127.53	-762.14	70.34	0.00	129.24	-8.80	9.10	1.20	0.00	0.00	2004.31	1156.40	1634.80	1651.90	2004.31	1634.80
VANO 9	2.40	0.00	1091.51	-745.48	66.05	0.00	121.68	-8.82	8.51	2.40	0.00	0.00	1931.63	1131.45	1550.33	1566.53	1931.63	1550.33
VANO 9	3.60	0.00	1056.79	-730.14	61.77	0.00	114.12	-8.84	7.92	3.60	0.00	0.00	1860.88	1108.47	1465.72	1481.03	1860.88	1465.72
VANO 9	4.80	0.00	1023.34	-716.11	57.48	0.00	106.55	-8.86	7.32	4.80	0.00	0.00	1792.05	1087.46	1381.00	1395.41	1792.05	1381.00
VANO 9	4.80	0.00	1023.34	-716.11	57.48	0.00	106.55	-8.86	7.32	4.80	0.00	0.00	1792.05	1087.46	1381.00	1395.41	1792.05	1381.00
VANO 9	6.00	0.00	991.18	-703.40	53.23	0.00	98.99	-8.89	6.73	6.00	0.00	0.00	1725.15	1068.43	1296.15	1309.66	1725.15	1296.15
VANO 9	7.20	0.00	960.31	-692.00	48.92	0.00	91.43	-8.91	6.13	7.20	0.00	0.00	1660.18	1051.36	1211.18	1223.79	1660.18	1211.18
VANO 9	8.40	0.00	930.72	-681.92	44.63	0.00	83.87	-8.93	5.54	8.40	0.00	0.00	1597.13	1036.28	1126.11	1137.82	1597.13	1126.11
VANO 9	9.60	0.00	902.41	-673.16	40.35	0.00	76.31	-8.95	4.95	9.60	0.00	0.00	1536.01	1023.16	1040.92	1051.73	1536.01	1040.92
VANO 9	9.60	0.00	902.41	-673.16	40.35	0.00	76.31	-8.95	4.95	9.60	0.00	0.00	1536.01	1023.16	1040.92	1051.73	1536.01	1040.92
VANO 9	10.80	0.00	875.39	-665.71	36.05	0.00	68.75	-8.97	4.35	10.80	0.00	0.00	1476.82	1012.02	955.64	965.55	1476.82	955.64
VANO 9	12.00	0.00	849.65	-659.57	31.73	0.00	61.18	-8.99	3.76	12.00	0.00	0.00	1419.56	1002.85	870.26	879.27	1419.56	870.26
VANO 9	13.20	0.00	825.20	-654.76	27.53	0.00	53.62	-9.02	3.16	13.20	0.00	0.00	1364.22	995.66	784.80	792.90	1364.22	784.80
VANO 9	14.40	0.00	802.03	-651.25	23.21	0.00	46.06	-9.04	2.57	14.40	0.00	0.00	1310.80	990.43	699.25	706.46	1310.80	699.25
VANO 9	14.40	0.00	802.03	-651.25	23.21	0.00	46.06	-9.04	2.57	14.40	0.00	0.00	1310.80	990.43	682.31	689.51	1310.80	682.31
VANO 9	15.60	0.00	780.14	-649.06	18.93	0.00	38.50	-9.06	1.98	15.60	0.00	0.00	1259.32	987.19	596.69	603.00	1259.32	596.69
VANO 9	16.80	0.00	759.54	-648.19	14.64	0.00	31.05	-9.08	1.38	16.80	0.00	0.00	1209.93	985.91	511.01	516.41	1209.93	511.01
VANO 9	18.00	0.00	740.23	-648.64	10.33	0.00	25.52	-9.10	0.79	18.00	0.00	0.00	1165.35	986.61	425.27	429.78	1165.35	425.27
VANO 9	19.20	0.00	722.27	-650.45	6.03	0.00	19.99	-9.12	0.19	19.20	0.00	0.00	1122.79	989.36	339.48	343.09	1122.79	339.48
VANO 9	19.20	0.00	722.27	-650.45	6.03	0.00	19.99	-9.12	0.19	19.20	0.00	0.00	1122.79	989.36	339.48	343.09	1122.79	339.48
VANO 9	20.40	0.00	705.73	-653.68	1.81	0.00	14.46	-9.15	-0.40	20.40	0.00	0.00	1083.04	994.64	253.66	256.37	1083.04	253.66
VANO 9	21.60	0.00	690.61	-658.34	0.03	-2.66	8.94	-9.17	-0.99	21.60	0.00	0.00	1049.31	1006.24	167.81	169.62	1049.31	167.81
VANO 9	22.80	0.00	676.91	-664.42	0.03	-6.94	3.41	-10.28	-1.59	22.80	0.00	0.00	1020.48	1024.04	81.95	82.85	1024.04	82.85
VANO 9	24.00	0.00	666.04	-673.32	0.03	-11.23	0.00	-14.43	-2.18	24.00	0.00	0.00	999.06	1050.65	4.40	4.40	1050.65	4.40
VANO 9	24.00	0.00	666.04	-673.32	0.03	-11.23	0.00	-14.43	-2.18	24.00	0.00	0.00	999.06	1050.65	4.40	4.40	1050.65	4.40
VANO 9	25.20	0.00	658.84	-685.89	0.03	-15.51	0.00	-21.99	-2.78	25.20	0.00	0.00	988.26	1087.87	90.98	90.08	1087.87	90.08
VANO 9	26.40	0.00	653.06	-699.88	0.03	-19.79	0.00	-29.56	-3.37	26.40	0.00	0.00	979.58	1127.22	177.74	175.95	1127.22	175.95
VANO 9	27.60	0.00	648.70	-715.30	0.03	-24.08	0.00	-37.12	-3.96	27.60	0.00	0.00	973.04	1168.70	264.49	261.80	1168.70	261.80
VANO 9	28.80	0.00	645.76	-732.13	0.03	-28.36	0.00	-44.68	-4.56	28.80	0.00	0.00	968.64	1212.32	351.21	347.62	1212.32	347.62
VANO 9	28.80	0.00	645.76	-732.13	0.03	-28.36	0.00	-44.68	-4.56	28.80	0.00	0.00	968.64	1212.32	351.21	347.62	1212.32	347.62
VANO 9	30.00	0.00	644.24	-750.39	0.03	-32.65	0.00	-52.24	-5.15	30.00	0.00	0.00	966.37	1258.07	437.90	433.40	1258.07	433.40
VANO 9	31.20	0.00	644.10	-770.00	0.03	-36.93	0.00	-59.80	-5.75	31.20	0.00	0.00	966.15	1305.85	524.53	519.14	1305.85	519.14
VANO 9	32.40	0.00	645.27	-790.90	0.03	-41.21	0.00	-67.36	-6.34	32.40	0.00	0.00	967.90	1355.56	611.11	604.82	1355.56	604.82
VANO 9	33.60	0.00	647.76	-813.08	0.03	-45.50	0.00	-74.93	-6.93	33.60	0.00	0.00	971.63	1407.19	697.63	690.44	1407.19	690.44
VANO 9	33.60	0.00	647.76	-813.08	0.03	-45.50	0.00	-74.93	-6.93	33.60	0.00	0.00	971.63	1407.19	697.63	690.44	1407.19	690.44
VANO 9	34.80	0.00	651.56	-836.55	0.03	-49.78	0.00	-82.49	-7.53	34.80	0.00	0.00	977.34	1460.76	784.08	775.98	1460.76	775.98
VANO 9	36.00	0.00	656.68	-861.30	0.03	-54.07	0.00	-90.05	-8.12	36.00	0.00	0.00	985.01	1516.25	870.44	861.45	1516.25	861.45
VANO 9	37.20	0.00	663.11	-887.34	0.03	-58.35	0.00	-97.61	-8.72	37.20	0.00	0.00	994.67	1573.66	956.72	946.82	1573.66	946.82
VANO 9	38.40	0.00	670.86	-914.66	0.03	-62.63	0.00	-105.17	-9.31	38.40	0.00	0.00	1006.29	1633.01	1042.90	1032.11	1633.01	1032.11
VANO 9	38.40	0.00	670.86	-914.66	0.03	-62.63	0.00	-105.17	-9.31	38.40	0.00	0.00	1006.29	1633.01	1042.90	1032.11	1633.01	1032.11
VANO 9	39.60	0.00	679.93	-943.26	0.03	-66.92	0.00	-112.73	-9.90	39.60	0.00	0.00	1019.89	1694.28	1128.98	1117.29	1694.28	1117.29
VANO 9	40.80	0.00	690.31	-973.15	0.03	-71.20	0.00	-120.29	-10.50	40.80	0.00	0.00	1035.47	1757.48	1214.96	1202.36	1757.48	1202.36
VANO 9	42.00	0.00	702.01	-1004.33	0.03	-75.49	0.00	-127.86	-11.09	42.00	0.00	0.00	1053.01	1822.60	1300.82	1287.33	1822.60	1287.33
VANO 9	43.20	0.00	715.02	-1036.79	0.03	-79.77	0.00	-135.42	-11.69	43.20	0.00	0.00	1072.53	1889.66	1386.56	1372.17	1889.66	1372.17
VANO 9	43.20	0.00	715.02	-1036.79	0.03	-79.77	0.00	-135.42	-11.69	43.20	0.00	0.00	1072.53	1889.66	1386.56	1372.17	1889.66	1372.17
VANO 9	44.40	0.00	729.35	-1070.54	0.03	-84.05	0.00	-142.98	-12.28	44.40	0.00	0.00	1094.03	1958.64	1472.19	1456.90	1958.64	1456.90
VANO 9	45.60	0.00	745.00	-1105.57	0.03	-88.34	0.00	-150.54	-12.87	45.60	0.00	0.00	1117.50	2029.54	1557.69	1541.49	2029.54	1541.49
VANO 9	46.80	0.00	761.96	-1141.88	0.03	-92.62	0.00	-158.10	-13.47	46.80	0.00	0.00	1142.94	2102.38	1643.06	1625.96	2102.38	1625.96
VANO 10	0.00	0.00	1188.78	-803.22	75.91	0.00	136.20	-10.44	9.96	0.00	0.00	0.00	2116.28	1220.48	1713.85	1731.81	2116.28	1713.85
VANO 10	1.20	0.00	1151.52	-785.26	71.62	0.00	128.70	-10.46	9.37	1.20	0.00	0.00	2041.81	1193.59	1629.51	1646.57	2041.81	1629.51
VANO 10	2.40	0.00	1115.53	-768.62	67.31	0.00	121.19	-10.48	8.77	2.40	0.00	0.00	1969.25	1168.66	1545.03	1561.19	1969.25	1545.03
VANO 10	3.60	0.00	1080.82	-753.29	63.01	0.00	113.69	-10.50	8.18	3.60	0.00	0.00	1898.61	1145.69	1460.43	1475.69	1898.61	1460.43
VANO 10	4.80	0.00	1047.38	-739.27	58.71	0.00	106.19	-10.53	7.59	4.80	0.00	0.00	1829.89	1124.69	1375.69	1390.05	1829.89	1375.69
VANO 10	4.80	0.00	1047.38	-739.27	58.71	0.00	106.19	-10.53	7.59	4.80	0.00	0.00	1829.89	1124.69	1375.69	1390.05	1829.89	1375.69
VANO 10	6.00	0.00	1015.23	-726.56	54.41	0.00	98.68	-10.55	6.99	6.00	0.00	0.00	1763.09	1105.66	1290.84	1304.30	1763.09	1290.84
VANO 10	7.20	0.00	984.36	-715.16	50.20	0.00	91.18	-10.57	6.40	7.20	0.00	0.00	1698.20	1088.59	1205.87	1218.43	1698.20	1205.87
VANO 10	8.40	0.00	954.76	-705.07	45.92	0.00	83.67	-10.59	5.80	8.40	0.00	0.00	1635.24	1073.49	1120.78	1132.44	1635.24	1120.78
VANO 10	9.60	0.00	926.45	-696.28	41.64	0.00	76.17	-10.61	5.21	9.60	0.00	0.00	1574.19	1060.35	1035.59	1046.35	1574.19	1035.59
VANO 10	9.60	0.00	926.45	-696.28	41.64	0.00	76.17	-10.61	5.21	9.60	0.00	0.00	1574.19	1060.35	1035.59	1046.35	1574.19	1035.59
VANO 10	10.80	0.00	899.41	-688.81	37.35	0.00	68.67	-10.63	4.62	10.80	0.00	0.00	1515.06	1049.17	950.30	960.16	1515.06	950.30
VANO 10	12.00	0.00	873.65	-682.65	33.07	0.00	61.16	-10.66	4.02	12.00	0.00	0.00	1457.85	1039.96	864.92	873.88	1457.85	864.92
VANO 10	13.20	0.00	849.17	-677.80	28.71	0.00	53.66	-10.68	3.43	13.20	0.00	0.00	1402.56	1032.72	779.44	787.50	1402.56	779.44
VANO 10	14.40	0.00	825.97	-674.26	24.50	0.00	46.15	-10.70	2.83	14.40	0.00	0.00	1349.19	1027.44	693.89	701.05	1349.19	693.89
VANO 10	14.40	0.00	825.97	-674.26	24.50	0.00	46.15	-10.70	2.83	14.40	0.00	0.00	1349.19	1027.44	676.95	684.11	1349.19	676.95
VANO 10	15.60	0.00	804.05	-672.03	20.25	0.00	38.65	-10.72	2.24	15.60	0.00	0.00	1297.73	1024.12	591.32	597.58	1297.73	591.32
VANO 10	16.80	0.00	783.41	-671.11	15.91	0.00	31.32	-10.74	1.65	16.80	0.00	0.00	1248.46	1022.77	505.63	510.99	1248.46	505.63
VANO 10	18.00	0.00	764.05	-671.50	11.61	0.00	25.79	-10.76	1.05	18.00	0.00	0.00	1203.80	1023.39	419.89	424.35	1203.80	419.89
VANO 10	19.20	0.00	746.03	-673.25	7.36	0.00	20.26	-10.79	0.46	19.20	0.00	0.00	1161.17	1026.05	334.10	337.66	1161.17	334.10
VANO 10	19.20	0.00	746.03	-673.25	7.36	0.00	20.26	-10.79	0.46	19.20	0.00	0.00	1161.17	1026.05	334.10	337.66	1161.17	334.10
VANO 10	20.40	0.00	729.43	-676.42	3.11	0.00	14.73	-10.81	-0.14	20.40	0.00	0.00	1120.92	1030.97	248.27	250.93	1120.92	248.27
VANO 10	21.60	0.00	714.25	-681.00	0.00	-1.51	9.20	-10.83	-0.73	21.60	0.00	0.00	1085.17	1040.73	162.41	164.17	1085.17	162.41
VANO 10	22.80	0.00	700.48	-687.00	0.00	-5.79	3.67	-10.85	-1.32	22.80	0.00	0.00	1056.23	1056.79	76.54	77.40	1056.79	77.40
VANO 10	24.00	0.00	689.36	-695.65	0.00	-10.07	0.00	-13.88	-1.92	24.00	0.00	0.00	1034.04	1081.32	9.46	9.42	1081.32	9.42
VANO 10	24.00	0.00	689.36	-695.65	0.00	-10.07	0.00	-13.88	-1.92	24.00	0.00	0.00	1034.04	1081.32	9.46	9.42	1081.32	9.42
VANO 10	25.20	0.00	682.07	-708.13	0.00	-14.36	0.00	-21.38	-2.51	25.20	0.00	0.00	1023.11	1118.31	96.24	95.30	1118.31	95.30
VANO 10	26.40	0.00	676.20	-722.02	0.00	-18.64	0.00	-28.89	-3.11	26.40	0.00	0.00	1014.30	1157.44	183.02	181.18	1157.44	181.18
VANO 10	27.60	0.00	671.75	-737.34	0.00	-22.93	0.00	-36.39	-3.70	27.60	0.00	0.00	1007.62	1198.68	269.77	267.03	1198.68	267.03
VANO 10	28.80	0.00	668.71	-754.07	0.00	-27.21	0.00	-43.90	-4.29	28.80	0.00	0.00	1003.07	1242.05	356.50	352.86	1242.05	352.86
VANO 10	28.80	0.00	668.71	-754.07	0.00	-27.21	0.00	-43.90	-4.29	28.80	0.00	0.00	1003.07	1242.05	356.50	352.86	1242.05	352.86
VANO 10	30.00	0.00	667.09	-772.21	0.00	-31.49	0.00	-51.40	-4.89	30.00	0.00	0.00	1000.63	1287.55	443.19	438.65	1287.55	438.65
VANO 10	31.20	0.00	666.83	-791.70	0.00	-35.78	0.00	-58.90	-5.48	31.20	0.00	0.00	1000.25	1335.06	529.83	524.39	1335.06	524.39
VANO 10	32.40	0.00	667.88	-812.48	0.00	-40.06	0.00	-66.41	-6.08	32.40	0.00	0.00	1001.82	1384.50	616.42	610.08	1384.50	610.08
VANO 10	33.60	0.00	670.24	-834.53	0.00	-44.35	0.00	-73.91	-6.67	33.60	0.00	0.00	1005.37	1435.85	702.94	695.70	1435.85	695.70
VANO 10	33.60	0.00	670.24	-834.53	0.00	-44.35	0.00	-73.91	-6.67	33.60	0.00	0.00	1005.37	1435.85	702.94	695.70	1435.85	695.70
VANO 10	34.80	0.00	673.92	-857.86	0.00	-48.63	0.00	-81.42	-7.26	34.80	0.00	0.00	1010.88	1489.12	789.39	781.25	1489.12	781.25
VANO 10	36.00	0.00	678.90	-882.47	0.00	-52.91	0.00	-88.92	-7.86	36.00	0.00	0.00	1018.35	1544.31	875.76	866.72	1544.31	866.72
VANO 10	37.20	0.00	685.19	-908.36	0.00	-57.20	0.00	-96.42	-8.45	37.20	0.00	0.00	1027.79	1601.42	962.04	952.11	1601.42	952.11
VANO 10	38.40	0.00	692.79	-935.52	0.00	-61.48	0.00	-103.93	-9.05	38.40	0.00	0.00	1039.19	1660.45	1048.23	1037.39	1660.45	1037.39
VANO 10	38.40	0.00	692.79	-935.52	0.00	-61.48	0.00	-103.93	-9.05	38.40	0.00	0.00	1039.19	1660.45	1048.23	1037.39	1660.45	1037.39
VANO 10	39.60	0.00	701.71	-963.97	0.00	-65.77	0.00	-111.43	-9.64	39.60	0.00	0.00	1052.56	1721.40	1134.32	1122.58	1721.40	1122.58
VANO 10	40.80	0.00	711.93	-993.70	0.00	-70.05	0.00	-118.94	-10.23	40.80	0.00	0.00	1067.89	1784.26	1220.30	1207.66	1784.26	1207.66
VANO 10	42.00	0.00	723.46	-1024.70	0.00	-74.33	0.00	-126.44	-10.83	42.00	0.00	0.00	1085.19	1849.04	1306.16	1292.63	1849.04	1292.63
VANO 10	43.20	0.00	736.31	-1056.99	0.00	-78.62	0.00	-133.95	-11.42	43.20	0.00	0.00	1104.46	1915.75	1391.91	1377.48	1915.75	1377.48
VANO 10	43.20	0.00	736.31	-1056.99	0.00	-78.62	0.00	-133.95	-11.42	43.20	0.00	0.00	1104.46	1915.75	1391.91	1377.48	1915.75	1377.48
VANO 10	44.40	0.00	750.48	-1090.55	0.00	-82.90	0.00	-141.45	-12.02	44.40	0.00	0.00	1125.69	1984.37	1477.54	1462.20	1984.37	1462.20
VANO 10	45.60	0.00	765.92	-1125.39	0.00	-87.19	0.00	-148.95	-12.61	45.60	0.00	0.00	1148.88	2054.91	1563.04	1546.80	2054.91	1546.80
VANO 10	46.80	0.00	782.70	-1161.51	0.00	-91.47	0.00	-156.46	-13.20	46.80	0.00	0.00	1174.04	2127.37	1646.41	1631.28	2127.37	1631.28

RESUMEN DE ESFUERZOS TORSORES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20 008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF SEGURIDADAD	1.0	1.0	1.0

	1	1	1	1	1	0.6	0.6	0.6	MULTIPLICADOR(Perdidas x Coef.Seg) 0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
	CARGAS	POSITIVOS ENVOLVENTE	NEGATIVOS ENVOLVENTE	POSITIV	NEGATIV	POSITIV	NEGATIV	Sobrec	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR	TORSOR	TORSOR +	TORSOR -	TORSOR	CORTAN
VANO 11	0.00	0.00	1174.22	-795.99	62.00	0.00	120.67	-22.91	7.23	0.00	0.00	0.00	2046.18	1228.34	1722.87	1740.91	2046.18	1722.87
VANO 11	1.20	0.00	1136.92	-778.01	57.72	0.00	113.17	-22.93	6.64	1.20	0.00	0.00	1971.67	1201.41	1638.53	1655.67	1971.67	1638.53
VANO 11	2.40	0.00	1100.91	-761.35	53.43	0.00	105.67	-22.95	6.04	2.40	0.00	0.00	1899.08	1176.45	1554.05	1570.30	1899.08	1554.05
VANO 11	3.60	0.00	1066.17	-746.00	49.15	0.00	98.17	-22.97	5.45	3.60	0.00	0.00	1828.42	1153.45	1469.45	1484.79	1828.42	1469.45
VANO 11	4.80	0.00	1032.73	-731.96	44.87	0.00	90.67	-22.99	4.86	4.80	0.00	0.00	1759.69	1132.44	1384.72	1399.16	1759.69	1384.72
VANO 11	4.80	0.00	1032.73	-731.96	44.87	0.00	90.67	-22.99	4.86	4.80	0.00	0.00	1759.69	1132.44	1384.72	1399.16	1759.69	1384.72
VANO 11	6.00	0.00	1000.56	-719.24	40.58	0.00	83.18	-23.02	4.26	6.00	0.00	0.00	1692.88	1113.39	1299.87	1313.41	1692.88	1299.87
VANO 11	7.20	0.00	969.68	-707.84	36.30	0.00	75.68	-23.04	3.67	7.20	0.00	0.00	1627.99	1096.31	1214.90	1227.54	1627.99	1214.90
VANO 11	8.40	0.00	940.09	-697.75	32.01	0.00	68.18	-23.06	3.07	8.40	0.00	0.00	1565.03	1081.21	1129.81	1141.56	1565.03	1129.81
VANO 11	9.60	0.00	911.77	-688.97	27.73	0.00	62.30	-23.08	2.48	9.60	0.00	0.00	1506.42	1068.08	1044.63	1055.47	1506.42	1044.63
VANO 11	9.60	0.00	911.77	-688.97	27.73	0.00	62.30	-23.08	2.48	9.60	0.00	0.00	1506.42	1068.08	1044.63	1055.47	1506.42	1044.63
VANO 11	10.80	0.00	884.74	-681.51	23.45	0.00	56.77	-23.10	1.89	10.80	0.00	0.00	1450.27	1056.92	959.34	969.28	1450.27	959.34
VANO 11	12.00	0.00	859.00	-675.37	19.16	0.00	51.24	-23.12	1.29	12.00	0.00	0.00	1396.03	1047.73	873.95	883.00	1396.03	873.95
VANO 11	13.20	0.00	834.53	-670.53	14.90	0.00	45.71	-23.15	0.70	13.20	0.00	0.00	1343.77	1040.52	788.48	796.82	1343.77	788.48
VANO 11	14.40	0.00	811.36	-667.02	10.67	0.00	40.18	-23.17	0.10	14.40	0.00	0.00	1293.46	1035.28	702.93	710.17	1293.46	702.93
VANO 11	14.40	0.00	811.36	-667.02	10.67	0.00	40.18	-23.17	0.10	14.40	0.00	0.00	1293.46	1035.28	685.99	693.23	1293.46	685.99
VANO 11	15.60	0.00	789.46	-664.82	6.43	0.00	34.65	-23.19	-0.49	15.60	0.00	0.00	1245.81	1032.50	600.36	606.70	1245.81	600.36
VANO 11	16.80	0.00	768.85	-663.93	2.19	0.00	29.12	-23.21	-1.08	16.80	0.00	0.00	1200.24	1031.79	514.67	520.12	1200.24	514.67
VANO 11	18.00	0.00	749.52	-664.36	0.00	-2.46	23.59	-23.23	-1.68	18.00	0.00	0.00	1159.67	1036.75	428.93	433.47	1159.67	428.93
VANO 11	19.20	0.00	731.54	-666.15	0.00	-6.75	18.06	-23.25	-2.27	19.20	0.00	0.00	1124.41	1046.50	343.13	346.78	1124.41	343.13
VANO 11	19.20	0.00	731.54	-666.15	0.00	-6.75	18.06	-23.25	-2.27	19.20	0.00	0.00	1124.41	1046.50	343.13	346.78	1124.41	343.13
VANO 11	20.40	0.00	714.99	-669.37	0.00	-11.03	12.53	-23.28	-2.87	20.40	0.00	0.00	1091.28	1058.38	257.31	260.05	1091.28	257.31
VANO 11	21.60	0.00	699.86	-674.01	0.00	-15.31	7.00	-23.30	-3.46	21.60	0.00	0.00	1060.29	1072.39	171.45	173.29	1072.39	173.29
VANO 11	22.80	0.00	686.14	-680.07	0.00	-19.60	1.47	-23.32	-4.05	22.80	0.00	0.00	1031.42	1088.53	85.57	86.52	1088.53	86.52
VANO 11	24.00	0.00	676.53	-690.22	0.00	-23.88	0.00	-29.29	-4.65	24.00	0.00	0.00	1014.79	1119.74	1.70	1.70	1119.74	1.70
VANO 11	24.00	0.00	676.53	-690.22	0.00	-23.88	0.00	-29.29	-4.65	24.00	0.00	0.00	1014.79	1119.74	1.70	1.70	1119.74	1.70
VANO 11	25.20	0.00	669.31	-702.77	0.00	-26.17	0.00	-36.79	-5.24	25.20	0.00	0.00	1003.96	1156.83	87.07	86.22	1156.83	86.22
VANO 11	26.40	0.00	663.51	-716.74	0.00	-32.45	0.00	-44.28	-5.84	26.40	0.00	0.00	995.26	1196.05	173.85	172.09	1196.05	172.09
VANO 11	27.60	0.00	659.13	-732.14	0.00	-36.73	0.00	-51.78	-6.43	27.60	0.00	0.00	988.69	1237.41	260.60	257.95	1237.41	257.95
VANO 11	28.80	0.00	656.17	-748.95	0.00	-41.02	0.00	-59.28	-7.02	28.80	0.00	0.00	984.25	1280.90	347.33	343.78	1280.90	343.78
VANO 11	28.80	0.00	656.17	-748.95	0.00	-41.02	0.00	-59.28	-7.02	28.80	0.00	0.00	984.25	1280.90	347.33	343.78	1280.90	343.78
VANO 11	30.00	0.00	654.63	-767.18	0.00	-45.30	0.00	-66.78	-7.62	30.00	0.00	0.00	981.94	1326.51	434.03	429.57	1326.51	429.57
VANO 11	31.20	0.00	654.46	-786.77	0.00	-49.59	0.00	-74.28	-8.21	31.20	0.00	0.00	981.69	1374.16	520.67	515.32	1374.16	515.32
VANO 11	32.40	0.00	655.61	-807.64	0.00	-53.87	0.00	-81.77	-8.81	32.40	0.00	0.00	983.41	1423.73	607.26	601.01	1423.73	601.01
VANO 11	33.60	0.00	658.07	-829.80	0.00	-58.15	0.00	-89.27	-9.40	33.60	0.00	0.00	987.10	1475.23	693.79	686.63	1475.23	686.63
VANO 11	33.60	0.00	658.07	-829.80	0.00	-58.15	0.00	-89.27	-9.40	33.60	0.00	0.00	987.10	1475.23	693.79	686.63	1475.23	686.63
VANO 11	34.80	0.00	661.84	-853.23	0.00	-62.44	0.00	-96.77	-9.99	34.80	0.00	0.00	992.76	1528.65	780.24	772.18	1528.65	772.18
VANO 11	36.00	0.00	666.93	-877.95	0.00	-66.72	0.00	-104.27	-10.59	36.00	0.00	0.00	1000.39	1584.00	866.61	857.66	1584.00	857.66
VANO 11	37.20	0.00	673.33	-903.96	0.00	-71.01	0.00	-111.76	-11.18	37.20	0.00	0.00	1010.00	1641.27	952.90	943.04	1641.27	943.04
VANO 11	38.40	0.00	681.05	-931.25	0.00	-75.29	0.00	-119.26	-11.78	38.40	0.00	0.00	1021.58	1700.47	1039.09	1028.33	1700.47	1028.33
VANO 11	38.40	0.00	681.05	-931.25	0.00	-75.29	0.00	-119.26	-11.78	38.40	0.00	0.00	1021.58	1700.47	1039.09	1028.33	1700.47	1028.33
VANO 11	39.60	0.00	690.08	-959.82	0.00	-79.57	0.00	-126.76	-12.37	39.60	0.00	0.00	1035.13	1761.60	1125.18	1113.52	1761.60	1113.52
VANO 11	40.80	0.00	700.43	-989.67	0.00	-83.86	0.00	-134.26	-12.96	40.80	0.00	0.00	1050.65	1824.64	1211.16	1198.60	1824.64	1198.60
VANO 11	42.00	0.00	712.09	-1020.81	0.00	-88.14	0.00	-141.76	-13.56	42.00	0.00	0.00	1068.14	1889.62	1297.03	1283.57	1889.62	1283.57
VANO 11	43.20	0.00	725.07	-1053.23	0.00	-92.43	0.00	-149.25	-14.15	43.20	0.00	0.00	1087.61	1956.52	1382.78	1368.43	1956.52	1368.43
VANO 11	43.20	0.00	725.07	-1053.23	0.00	-92.43	0.00	-149.25	-14.15	43.20	0.00	0.00	1087.61	1956.52	1382.78	1368.43	1956.52	1368.43
VANO 11	44.40	0.00	739.36	-1086.94	0.00	-96.71	0.00	-156.75	-14.75	44.40	0.00	0.00	1109.04	2025.34	1468.41	1453.16	2025.34	1453.16
VANO 11	45.60	0.00	754.97	-1121.93	0.00	-100.99	0.00	-164.25	-15.34	45.60	0.00	0.00	1132.45	2096.09	1553.92	1537.76	2096.09	1537.76
VANO 11	46.80	0.00	771.89	-1158.20	0.00	-105.28	0.00	-171.75	-15.93	46.80	0.00	0.00	1157.83	2168.77	1639.29	1622.24	2168.77	1622.24
VANO 12	0.00	0.00	1158.34	-770.09	82.33	0.00	143.98	-4.69	10.86	0.00	0.00	0.00	2093.30	1162.17	1716.19	1734.18	2093.30	1716.19
VANO 12	1.20	0.00	1120.73	-751.81	78.07	0.00	136.44	-4.71	10.27	1.20	0.00	0.00	2018.26	1134.78	1631.85	1648.94	2018.26	1631.85
VANO 12	2.40	0.00	1084.42	-734.85	73.71	0.00	128.89	-4.74	9.68	2.40	0.00	0.00	1945.16	1109.38	1547.38	1563.56	1945.16	1547.38
VANO 12	3.60	0.00	1049.40	-719.22	69.53	0.00	121.35	-4.76	9.08	3.60	0.00	0.00	1874.00	1085.97	1462.78	1478.06	1874.00	1462.78
VANO 12	4.80	0.00	1015.67	-704.92	65.22	0.00	113.81	-4.78	8.49	4.80	0.00	0.00	1804.78	1064.54	1378.05	1392.43	1804.78	1378.05
VANO 12	4.80	0.00	1015.67	-704.92	65.22	0.00	113.81	-4.78	8.49	4.80	0.00	0.00	1804.78	1064.54	1378.05	1392.43	1804.78	1378.05
VANO 12	6.00	0.00	983.24	-691.94	60.93	0.00	106.27	-4.80	7.89	6.00	0.00	0.00	1737.50	1045.11	1293.20	1306.68	1737.50	1293.20
VANO 12	7.20	0.00	952.10	-680.28	56.63	0.00	98.72	-4.82	7.30	7.20	0.00	0.00	1672.16	1027.66	1208.23	1220.81	1672.16	1208.23
VANO 12	8.40	0.00	922.26	-669.95	52.33	0.00	91.18	-4.84	6.71	8.40	0.00	0.00	1608.77	1012.20	1123.15	1134.83	1608.77	1123.15
VANO 12	9.60	0.00	893.71	-660.95	48.03	0.00	83.64	-4.87	6.11	9.60	0.00	0.00	1547.31	998.72	1037.96	1048.74	1547.31	1037.96
VANO 12	9.60	0.00	893.71	-660.95	48.03	0.00	83.64	-4.87	6.11	9.60	0.00	0.00	1547.31	998.72	1037.96	1048.74	1547.31	1037.96
VANO 12	10.80	0.00	866.45	-653.27	43.80	0.00	76.10	-4.89	5.52	10.80	0.00	0.00	1487.80	987.24	952.67	962.55	1487.80	952.67
VANO 12	12.00	0.00	840.49	-646.92	39.51	0.00	68.55	-4.91	4.92	12.00	0.00	0.00	1430.22	977.74	867.29	876.27	1430.22	867.29
VANO 12	13.20	0.00	815.82	-641.89	35.23	0.00	61.01	-4.93	4.33	13.20	0.00	0.00	1374.59	970.24	781.81	789.90	1374.59	781.81
VANO 12	14.40	0.00	792.45	-638.19	30.94	0.00	53.47	-4.95	3.74	14.40	0.00	0.00	1320.90	964.72	696.26	703.45	1320.90	696.26
VANO 12	14.40	0.00	792.45	-638.19	30.94	0.00	53.47	-4.95	3.74	14.40	0.00	0.00	1320.90	964.72	679.32	686.50	1320.90	679.32
VANO 12	15.60	0.00	770.37	-635.82	26.66	0.00	45.93	-4.97	3.14	15.60	0.00	0.00	1269.15	961.18	593.70	599.98	1269.15	593.70
VANO 12	16.80	0.00	749.58	-634.77	22.38	0.00	38.38	-4.99	2.55	16.80	0.00	0.00	1219.34	959.64	508.01	513.39	1219.34	508.01
VANO 12	18.00	0.00	730.09	-635.04	18.09	0.00	30.84	-5.02	1.95	18.00	0.00	0.00	1171.47	960.09	422.27	426.75	1171.47	422.27
VANO 12	19.20	0.00	711.96	-636.69	13.81	0.00	23.30	-5.04	1.36	19.20	0.00	0.00	1125.64	962.60	336.48	340.06	1125.64	336.48
VANO 12	19.20	0.00	711.96	-636.69	13.8	0.00	23.30	-5.04	1.36	19.20	0.00	0.00	1125.64	962.60	336.48	340.06	1125.64	336.48
VANO 12	20.40	0.00	695.26	-639.78	9.52	0.00	15.76	-5.06	0.77	20.40	0.00	0.00	1081.97	967.26	250.65	253.33	1081.97	250.65
VANO 12	21.60	0.00	680.00	-644.30	5.24	0.00	9.91	-5.08	0.17	21.60	0.00	0.00	1042.99	974.07	164.79	168.58	1042.99	164.79
VANO 12	22.80	0.00	666.17	-650.25	0.96	-0.96	4.38	-5.10	-0.42	22.80	0.00	0.00	1007.26	984.89	78.92	79.80	1007.26	78.92
VANO 12	24.00	0.00	654.53	-658.39	0.00	-5.24	0.00	-6.87	-1.02	24.00	0.00	0.00	981.79	1006.77	6.99	6.97	1006.77	6.97
VANO 12	24.00	0.00	654.53	-658.39	0.00	-5.24	0.00	-6.87	-1.02	24.00	0.00	0.00	981.79	1006.77	6.99	6.97	1006.77	6.97
VANO 12	25.20	0.00	647.21	-670.86	0.00	-9.53	0.00	-14.41	-1.61	25.20	0.00	0.00	970.82	1043.81	93.77	92.85	1043.81	92.85
VANO 12	26.40	0.00	641.33	-684.76	0.00	-13.81	0.00	-21.96	-2.20	26.40	0.00	0.00	961.99	1082.99	180.54	178.73	1082.99	178.73
VANO 12	27.60	0.00	636.88	-700.09	0.00	-18.09	0.00	-29.50	-2.80	27.60	0.00	0.00	955.31	1124.32	267.30	264.58	1124.32	264.58
VANO 12	28.80	0.00	633.86	-716.85	0.00	-22.38	0.00	-37.04	-3.39	28.80	0.00	0.00	950.79	1167.80	354.02	350.41	1167.80	350.41
VANO 12	28.80	0.00	633.86	-716.85	0.00	-22.38	0.00	-37.04	-3.39	28.80	0.00	0.00	950.79	1167.80	354.02	350.41	1167.80	350.41
VANO 12	30.00	0.00	632.27	-735.05	0.00	-26.66	0.00	-44.58	-3.99	30.00	0.00	0.00	948.41	1213.43	440.71	436.20	1213.43	436.20
VANO 12	31.20	0.00	632.06	-754.61	0.00	-30.95	0.00	-52.12	-4.58	31.20	0.00	0.00	948.10	1261.10	527.36	521.94	1261.10	521.94
VANO 12	32.40	0.00	633.18	-775.46	0.00	-35.23	0.00	-59.67	-5.17	32.40	0.00	0.00	949.77	1310.72	613.94	607.63	1310.72	607.63
VANO 12	33.60	0.00	635.63	-797.61	0.00	-39.51	0.00	-67.21	-5.77	33.60	0.00	0.00	953.44	1362.27	700.47	693.25	1362.27	693.25
VANO 12	33.60	0.00	635.63	-797.61	0.00	-39.51	0.00	-67.21	-5.77	33.60	0.00	0.00	953.44	1362.27	700.47	693.25	1362.27	693.25
VANO 12	34.80	0.00	639.40	-821.05	0.00	-43.80	0.00	-74.75	-6.36	34.80	0.00	0.00	959.09	1415.77	786.92	778.80	1415.77	778.80
VANO 12	36.00	0.00	644.49	-845.79	0.00	-48.08	0.00	-82.29	-6.96	36.00	0.00	0.00	966.73	1471.21	873.29	864.27	1471.21	864.27
VANO 12	37.20	0.00	650.91	-871.82	0.00	-52.37	0.00	-89.84	-7.55	37.20	0.00	0.00	976.36	1528.58	959.57	949.65	1528.58	949.65
VANO 12	38.40	0.00	658.65	-899.14	0.00	-56.65	0.00	-97.38	-8.14	38.40	0.00	0.00	987.98	1587.90	1045.75	1034.94	1587.90	1034.94
VANO 12	38.40	0.00	658.65	-899.14	0.00	-56.65	0.00	-97.38	-8.14	38.40	0.00	0.00	987.98	1587.90	1045.75	1034.94	1587.90	1034.94
VANO 12	39.60	0.00	667.73	-927.76	0.00	-60.93	0.00	-104.92	-8.74	39.60	0.00	0.00	1001.59	1649.16	1131.84	1120.12	1649.16	1120.12
VANO 12	40.80	0.00	678.12	-957.67	0.00	-65.22	0.00	-112.46	-9.33	40.80	0.00	0.00	1017.18	1712.37	1217.82	1205.20	1712.37	1205.20
VANO 12	42.00	0.00	689.84	-988.88	0.00	-69.50	0.00	-120.01	-9.93	42.00	0.00	0.00	1034.76	1777.51	1303.69	1290.17	1777.51	1290.17
VANO 12	43.20	0.00	702.89	-1021.38	0.00	-73.79	0.00	-127.55	-10.52	43.20	0.00	0.00	1054.33	1844.59	1389.43	1375.02	1844.59	1375.02
VANO 12	43.20	0.00	702.89	-1021.38	0.00	-73.79	0.00	-127.55	-10.52	43.20	0.00	0.00	1054.33	1844.59	1389.43	1375.02	1844.59	1375.02
VANO 12	44.40	0.00	717.26	-1055.17	0.00	-78.07	0.00	-135.09	-11.11	44.40	0.00	0.00	1075.89	1913.61	1475.06	1459.75	1913.61	1459.75
VANO 12	45.60	0.00	732.96	-1090.26	0.00	-82.35	0.00	-142.63	-11.71	45.60	0.00	0.00	1099.44	1984.58	1560.56	1544.35	1984.58	1544.35
VANO 12	46.80	0.00	749.98	-1128.64	0.00	-86.64	0.00	-150.18	-12.30	46.80	0.00	0.00	1124.97	2057.49	1645.93	1628.82	2057.49	1628.82

RESUMEN DE ESFUERZOS TORSORES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

		1	1	1	1	1	0.6	0.6	0.6	MULTIPLICADOR(Perdidas x Coef.Seg)							
										0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
		CARGAS	POSITIVOS ENVOLVENTE	NEGATIVOS ENVOLVENTE	POSITIV	NEGATIV	POSITIV	NEGATIV	Sobrec	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR	TORSOR	TORSOR +	TORSOR -	TORSOR	CORTAN
VANO 13	0.00	0.00	1185.66	-792.78	99.68	0.00	152.56	0.00	12.35	0.00	0.00	0.00	2174.48	1189.17	1715.93	1733.91	2174.48	1715.93
VANO 13	1.20	0.00	1148.26	-774.71	94.79	0.00	145.09	0.00	11.76	1.20	0.00	0.00	2099.85	1162.06	1631.58	1648.66	2099.85	1631.58
VANO 13	2.40	0.00	1112.15	-757.95	90.51	0.00	137.61	0.00	11.16	2.40	0.00	0.00	2027.14	1136.92	1547.10	1563.28	2027.14	1547.10
VANO 13	3.60	0.00	1077.32	-742.50	86.23	0.00	130.13	0.00	10.57	3.60	0.00	0.00	1956.37	1113.75	1462.50	1477.77	1956.37	1462.50
VANO 13	4.80	0.00	1043.78	-728.37	81.94	0.00	122.65	0.00	9.97	4.80	0.00	0.00	1887.51	1092.56	1377.76	1392.14	1887.51	1377.76
VANO 13	4.80	0.00	1043.78	-728.37	81.94	0.00	122.65	0.00	9.97	4.80	0.00	0.00	1887.51	1092.56	1377.76	1392.14	1887.51	1377.76
VANO 13	6.00	0.00	1011.52	-715.56	77.66	0.00	115.17	0.00	9.38	6.00	0.00	0.00	1820.59	1073.33	1292.91	1308.38	1820.59	1292.91
VANO 13	7.20	0.00	980.54	-704.06	73.37	0.00	107.69	0.00	8.79	7.20	0.00	0.00	1755.59	1056.08	1207.93	1220.51	1755.59	1207.93
VANO 13	8.40	0.00	950.85	-693.87	69.09	0.00	100.21	0.00	8.19	8.40	0.00	0.00	1692.52	1040.81	1122.85	1134.52	1692.52	1122.85
VANO 13	9.60	0.00	922.44	-685.00	64.81	0.00	92.74	0.00	7.60	9.60	0.00	0.00	1631.37	1027.50	1037.65	1048.43	1631.37	1037.65
VANO 13	9.60	0.00	922.44	-685.00	64.81	0.00	92.74	0.00	7.60	9.60	0.00	0.00	1631.37	1027.50	1037.65	1048.43	1631.37	1037.65
VANO 13	10.80	0.00	895.32	-677.45	60.52	0.00	85.26	0.00	7.00	10.80	0.00	0.00	1572.15	1016.17	952.36	962.24	1572.15	952.36
VANO 13	12.00	0.00	869.48	-671.21	56.24	0.00	77.78	0.00	6.41	12.00	0.00	0.00	1514.85	1006.81	866.97	875.95	1514.85	866.97
VANO 13	13.20	0.00	844.92	-666.29	51.55	0.00	70.30	0.00	5.82	13.20	0.00	0.00	1459.49	999.43	781.49	789.57	1459.49	781.49
VANO 13	14.40	0.00	821.65	-662.68	47.67	0.00	62.82	0.00	5.22	14.40	0.00	0.00	1406.04	994.02	695.94	703.12	1406.04	695.94
VANO 13	14.40	0.00	821.65	-662.68	47.67	0.00	62.82	0.00	5.22	14.40	0.00	0.00	1406.04	994.02	678.99	686.17	1406.04	678.99
VANO 13	15.60	0.00	799.66	-660.39	43.39	0.00	55.34	0.00	4.63	15.60	0.00	0.00	1354.53	990.58	593.36	599.64	1354.53	593.36
VANO 13	16.80	0.00	778.96	-659.41	39.10	0.00	47.87	0.00	4.03	16.80	0.00	0.00	1304.94	989.11	507.67	513.05	1304.94	507.67
VANO 13	18.00	0.00	759.54	-659.74	34.82	0.00	40.39	0.00	3.44	18.00	0.00	0.00	1257.27	989.62	421.92	426.40	1257.27	421.92
VANO 13	19.20	0.00	741.47	-661.45	30.53	0.00	32.91	0.00	2.85	19.20	0.00	0.00	1211.64	992.18	336.13	339.70	1211.64	336.13
VANO 13	19.20	0.00	741.47	-661.45	30.53	0.00	32.91	0.00	2.85	19.20	0.00	0.00	1211.64	992.18	336.13	339.70	1211.64	336.13
VANO 13	20.40	0.00	724.83	-664.58	26.25	0.00	25.43	0.00	2.25	20.40	0.00	0.00	1168.13	996.87	250.29	252.97	1168.13	250.29
VANO 13	21.60	0.00	709.60	-669.13	21.97	0.00	17.95	0.00	1.66	21.60	0.00	0.00	1126.77	1003.69	164.43	166.21	1126.77	164.43
VANO 13	22.80	0.00	695.80	-675.10	17.68	0.00	10.47	0.00	1.06	22.80	0.00	0.00	1087.53	1012.65	78.55	79.43	1087.53	78.55
VANO 13	24.00	0.00	683.42	-682.49	13.43	0.00	2.99	0.00	0.47	24.00	0.00	0.00	1050.43	1023.74	7.36	7.34	1050.43	7.36
VANO 13	24.00	0.00	683.42	-682.49	13.43	0.00	2.99	0.00	0.47	24.00	0.00	0.00	1050.43	1023.74	7.36	7.34	1050.43	7.36
VANO 13	25.20	0.00	675.92	-694.76	9.11	-1.92	1.91	-5.23	-0.12	25.20	0.00	0.00	1030.41	1053.00	94.15	93.23	1053.00	93.23
VANO 13	26.40	0.00	670.03	-708.65	4.83	-6.20	1.89	-11.96	-0.72	26.40	0.00	0.00	1015.12	1090.94	180.93	179.11	1090.94	179.11
VANO 13	27.60	0.00	665.57	-723.96	0.55	-10.49	1.86	-19.44	-1.31	27.60	0.00	0.00	1001.97	1132.14	267.69	264.97	1132.14	264.97
VANO 13	28.80	0.00	662.53	-740.69	0.03	-14.77	1.84	-26.92	-1.91	28.80	0.00	0.00	996.56	1175.47	354.42	350.80	1175.47	350.80
VANO 13	28.80	0.00	662.53	-740.69	0.03	-14.77	1.84	-26.92	-1.91	28.80	0.00	0.00	996.56	1175.47	354.42	350.80	1175.47	350.80
VANO 13	30.00	0.00	660.91	-758.84	0.03	-19.05	1.82	-34.40	-2.50	30.00	0.00	0.00	994.09	1220.94	441.12	436.60	1220.94	436.60
VANO 13	31.20	0.00	660.66	-778.34	0.03	-23.34	1.80	-41.88	-3.09	31.20	0.00	0.00	993.69	1268.43	527.77	522.35	1268.43	522.35
VANO 13	32.40	0.00	661.72	-799.13	0.03	-27.62	1.78	-49.36	-3.69	32.40	0.00	0.00	995.25	1317.86	614.36	608.04	1317.86	608.04
VANO 13	33.60	0.00	664.10	-821.21	0.03	-31.91	1.76	-56.83	-4.28	33.60	0.00	0.00	998.79	1369.20	700.89	693.67	1369.20	693.67
VANO 13	33.60	0.00	664.10	-821.21	0.03	-31.91	1.76	-56.83	-4.28	33.60	0.00	0.00	998.79	1369.20	700.89	693.67	1369.20	693.67
VANO 13	34.80	0.00	667.80	-844.56	0.03	-36.19	1.73	-64.31	-4.88	34.80	0.00	0.00	1004.30	1422.48	787.35	779.22	1422.48	779.22
VANO 13	36.00	0.00	672.81	-869.21	0.03	-40.47	1.71	-71.79	-5.47	36.00	0.00	0.00	1011.78	1477.68	873.72	864.70	1477.68	864.70
VANO 13	37.20	0.00	679.14	-895.13	0.03	-44.76	1.69	-79.27	-6.06	37.20	0.00	0.00	1021.24	1534.81	960.01	950.09	1534.81	950.09
VANO 13	38.40	0.00	686.78	-922.34	0.03	-49.04	1.67	-86.75	-6.66	38.40	0.00	0.00	1032.67	1593.86	1046.20	1035.38	1593.86	1035.38
VANO 13	38.40	0.00	686.78	-922.34	0.03	-49.04	1.67	-86.75	-6.66	38.40	0.00	0.00	1032.67	1593.86	1046.20	1035.38	1593.86	1035.38
VANO 13	39.60	0.00	695.74	-950.84	0.03	-53.33	1.65	-94.23	-7.25	39.60	0.00	0.00	1046.08	1654.84	1132.29	1120.57	1654.84	1120.57
VANO 13	40.80	0.00	706.01	-980.62	0.03	-57.61	1.63	-101.71	-7.85	40.80	0.00	0.00	1061.45	1717.75	1218.27	1205.65	1717.75	1205.65
VANO 13	42.00	0.00	717.60	-1011.68	0.03	-61.89	1.61	-109.18	-8.44	42.00	0.00	0.00	1078.80	1782.58	1304.14	1290.62	1782.58	1290.62
VANO 13	43.20	0.00	730.50	-1044.03	0.03	-66.18	1.58	-116.66	-9.03	43.20	0.00	0.00	1098.13	1849.34	1389.89	1375.47	1849.34	1375.47
VANO 13	43.20	0.00	730.50	-1044.03	0.03	-66.18	1.58	-116.66	-9.03	43.20	0.00	0.00	1098.13	1849.34	1389.89	1375.47	1849.34	1375.47
VANO 13	44.40	0.00	744.72	-1077.66	0.03	-70.46	1.56	-124.14	-9.63	44.40	0.00	0.00	1119.43	1918.03	1475.53	1460.21	1918.03	1460.21
VANO 13	45.60	0.00	760.26	-1112.58	0.03	-74.75	1.54	-131.62	-10.22	45.60	0.00	0.00	1142.70	1988.64	1561.03	1544.81	1988.64	1544.81
VANO 13	46.80	0.00	777.11	-1148.78	0.03	-79.03	1.52	-139.10	-10.82	46.80	0.00	0.00	1167.94	2061.18	1646.41	1629.29	2061.18	1629.29
VANO 14	0.00	0.00	1194.16	-793.68	111.91	0.00	169.62	0.00	14.46	0.00	0.00	0.00	2235.21	1190.52	1721.92	1739.95	2235.21	1721.92
VANO 14	1.20	0.00	1156.57	-775.41	107.62	0.00	162.12	0.00	13.87	1.20	0.00	0.00	2160.26	1163.12	1637.58	1654.71	2160.26	1637.58
VANO 14	2.40	0.00	1120.27	-758.46	103.33	0.00	154.61	0.00	13.27	2.40	0.00	0.00	2087.24	1137.70	1553.11	1569.34	2087.24	1553.11
VANO 14	3.60	0.00	1085.26	-742.83	99.03	0.00	147.11	0.00	12.68	3.60	0.00	0.00	2016.14	1114.25	1468.51	1483.84	2016.14	1468.51
VANO 14	4.80	0.00	1051.53	-728.51	94.77	0.00	139.61	0.00	12.08	4.80	0.00	0.00	1946.97	1092.77	1383.78	1398.21	1946.97	1383.78
VANO 14	4.80	0.00	1051.53	-728.51	94.77	0.00	139.61	0.00	12.08	4.80	0.00	0.00	1946.97	1092.77	1383.78	1398.21	1946.97	1383.78
VANO 14	6.00	0.00	1019.08	-715.51	90.48	0.00	132.10	0.00	11.49	6.00	0.00	0.00	1879.73	1073.27	1298.93	1312.46	1879.73	1298.93
VANO 14	7.20	0.00	987.92	-703.83	86.20	0.00	124.60	0.00	10.90	7.20	0.00	0.00	1814.42	1055.75	1213.96	1226.59	1814.42	1213.96
VANO 14	8.40	0.00	958.05	-693.46	81.9	0.00	117.09	0.00	10.30	8.40	0.00	0.00	1751.04	1040.20	1128.88	1140.61	1751.04	1128.88
VANO 14	9.60	0.00	929.46	-684.42	77.63	0.00	109.59	0.00	9.71	9.60	0.00	0.00	1689.58	1026.62	1043.69	1054.52	1689.58	1043.69
VANO 14	9.60	0.00	929.46	-684.42	77.63	0.00	109.59	0.00	9.71	9.60	0.00	0.00	1689.58	1026.62	1043.69	1054.52	1689.58	1043.69
VANO 14	10.80	0.00	902.16	-676.68	73.35	0.00	102.09	0.00	9.11	10.80	0.00	0.00	1630.05	1015.02	958.40	968.33	1630.05	958.40
VANO 14	12.00	0.00	876.14	-670.27	69.06	0.00	94.58	0.00	8.52	12.00	0.00	0.00	1572.46	1005.40	873.01	882.05	1572.46	873.01
VANO 14	13.20	0.00	851.41	-665.17	64.78	0.00	87.08	0.00	7.93	13.20	0.00	0.00	1516.78	997.75	787.54	795.68	1516.78	787.54
VANO 14	14.40	0.00	827.96	-661.38	60.49	0.00	79.57	0.00	7.33	14.40	0.00	0.00	1463.04	992.07	701.99	709.22	1463.04	701.99
VANO 14	14.40	0.00	827.96	-661.38	60.49	0.00	79.57	0.00	7.33	14.40	0.00	0.00	1463.04	992.07	685.05	692.28	1463.04	685.05
VANO 14	15.60	0.00	805.80	-658.92	56.2	0.00	72.07	0.00	6.74	15.60	0.00	0.00	1411.23	988.37	599.42	605.76	1411.23	599.42
VANO 14	16.80	0.00	784.92	-657.77	51.92	0.00	64.56	0.00	6.14	16.80	0.00	0.00	1361.34	986.65	513.73	519.17	1361.34	513.73
VANO 14	18.00	0.00	765.33	-657.93	47.64	0.00	57.06	0.00	5.55	18.00	0.00	0.00	1313.38	986.90	427.98	432.52	1313.38	427.98
VANO 14	19.20	0.00	747.10	-659.47	43.36	0.00	49.56	0.00	4.96	19.20	0.00	0.00	1267.45	989.20	342.19	345.83	1267.45	342.19
VANO 14	19.20	0.00	747.10	-659.47	43.36	0.00	49.56	0.00	4.96	19.20	0.00	0.00	1267.45	989.20	342.19	345.83	1267.45	342.19
VANO 14	20.40	0.00	730.29	-662.43	39.07	0.00	42.05	0.00	4.36	20.40	0.00	0.00	1223.66	993.64	256.36	259.10	1223.66	256.36
VANO 14	21.60	0.00	714.90	-666.81	34.75	0.00	34.55	0.00	3.77	21.60	0.00	0.00	1182.00	1000.22	170.50	172.34	1182.00	170.50
VANO 14	22.80	0.00	700.93	-672.62	30.51	0.00	27.04	0.00	3.17	22.80	0.00	0.00	1142.48	1008.93	84.63	85.56	1142.48	84.63
VANO 14	24.00	0.00	688.39	-679.85	26.22	0.00	19.54	0.00	2.58	24.00	0.00	0.00	1105.09	1019.78	2.42	2.42	1105.09	2.42
VANO 14	24.00	0.00	688.39	-679.85	26.22	0.00	19.54	0.00	2.58	24.00	0.00	0.00	1105.09	1019.78	2.42	2.42	1105.09	2.42
VANO 14	25.20	0.00	679.26	-690.49	21.94	0.00	15.05	-3.02	1.99	25.20	0.00	0.00	1077.35	1040.27	88.01	87.15	1077.35	88.01
VANO 14	26.40	0.00	673.21	-704.22	17.65	0.00	13.51	-8.55	1.39	26.40	0.00	0.00	1058.65	1069.15	174.79	173.03	1069.15	173.03
VANO 14	27.60	0.00	668.58	-719.37	13.31	0.00	13.49	-14.08	0.80	27.60	0.00	0.00	1044.37	1100.17	261.55	258.89	1100.17	258.89
VANO 14	28.80	0.00	665.38	-735.94	9.05	-3.98	13.47	-19.61	0.20	28.80	0.00	0.00	1032.22	1139.29	348.28	344.72	1139.29	344.72
VANO 14	28.80	0.00	665.38	-735.94	9.05	-3.98	13.47	-19.61	0.20	28.80	0.00	0.00	1032.22	1139.29	348.28	344.72	1139.29	344.72
VANO 14	30.00	0.00	663.60	-753.93	4.80	-8.22	13.45	-25.14	-0.39	30.00	0.00	0.00	1022.78	1161.32	434.98	430.51	1161.32	430.51
VANO 14	31.20	0.00	663.20	-773.28	0.52	-12.49	13.43	-30.66	-0.98	31.20	0.00	0.00	1015.71	1225.64	521.62	516.26	1225.64	516.26
VANO 14	32.40	0.00	664.10	-793.92	0.00	-16.77	13.41	-36.19	-1.58	32.40	0.00	0.00	1016.27	1271.91	608.22	601.95	1271.91	601.95
VANO 14	33.60	0.00	666.33	-815.84	0.00	-21.06	13.38	-41.72	-2.17	33.60	0.00	0.00	1019.57	1320.10	694.74	687.58	1320.10	687.58
VANO 14	33.60	0.00	666.33	-815.84	0.00	-21.06	13.38	-41.72	-2.17	33.60	0.00	0.00	1019.57	1320.10	694.74	687.58	1320.10	687.58
VANO 14	34.80	0.00	669.87	-839.04	0.00	-25.34	13.36	-48.00	-2.77	34.80	0.00	0.00	1024.85	1371.34	781.20	773.13	1371.34	773.13
VANO 14	36.00	0.00	674.73	-863.53	0.00	-29.62	13.34	-55.50	-3.36	36.00	0.00	0.00	1032.10	1426.35	867.57	858.61	1426.35	858.61
VANO 14	37.20	0.00	680.90	-889.31	0.00	-33.91	13.32	-63.01	-3.95	37.20	0.00	0.00	1041.33	1483.29	953.86	944.00	1483.29	944.00
VANO 14	38.40	0.00	688.39	-916.37	0.00	-38.19	13.30	-70.51	-4.55	38.40	0.00	0.00	1052.54	1542.16	1040.06	1029.29	1542.16	1029.29
VANO 14	38.40	0.00	688.39	-916.37	0.00	-38.19	13.30	-70.51	-4.55	38.40	0.00	0.00	1052.54	1542.16	1040.06	1029.29	1542.16	1029.29
VANO 14	39.60	0.00	697.20	-944.72	0.00	-42.48	13.28	-78.01	-5.14	39.60	0.00	0.00	1065.71	1602.95	1126.15	1114.48	1602.95	1114.48
VANO 14	40.80	0.00	707.32	-974.35	0.00	-46.76	13.26	-85.52	-5.74	40.80	0.00	0.00	1080.87	1665.68	1212.13	1199.57	1665.68	1199.57
VANO 14	42.00	0.00	718.76	-1005.26	0.00	-51.04	13.23	-93.02	-6.33	42.00	0.00	0.00	1097.99	1730.33	1298.01	1284.54	1730.33	1284.54
VANO 14	43.20	0.00	731.52	-1037.47	0.00	-55.33	13.21	-100.53	-6.92	43.20	0.00	0.00	1117.10	1796.91	1383.76	1369.40	1796.91	1369.40
VANO 14	43.20	0.00	731.52	-1037.47	0.00	-55.33	13.21	-100.53	-6.92	43.20	0.00	0.00	1117.10	1796.91	1383.76	1369.40	1796.91	1369.40
VANO 14	44.40	0.00	745.59	-1070.95	0.00	-59.61	13.19	-108.03	-7.52	44.40	0.00	0.00	1138.17	1865.41	1469.40	1454.13	1865.41	1454.13
VANO 14	45.60	0.00	760.98	-1105.73	0.00	-63.90	13.17	-115.53	-8.11	45.60	0.00	0.00	1161.22	1935.85	1554.90	1538.74	1935.85	1538.74
VANO 14	46.80	0.00	777.69	-1141.78	0.00	-68.18	13.15	-123.04	-8.71	46.80	0.00	0.00	1186.25	2008.21	1640.28	1623.22	2008.21	1623.22

REBUMEN DE ESFUERZOS TORSORES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

		1	1	1	1	1	0.6	0.6	0.6	MULTIPLICADOR(Perdidas x Coef.Seg) 0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
		CARGAS	POSITIVOS ENVOLVENTE	NEGATIVOS ENVOLVENTE	POSITIV	NEGATIV	POSITIV	NEGATIV	Sobrec	TORSOR PRETENSADO EXTERIOR	TORSOR PRETENSADO CENTRADO	TORSOR PRETENSADO	TORSOR	TORSOR	TORSOR +	TORSOR -	TORSOR	CORTAN
VANO 15	0.00	0.00	1202.81	-788.18	123.74	0.00	202.91	0.00	19.34	0.00	0.00	0.00	2323.20	1182.26	1715.51	1733.49	2323.20	1715.51
VANO 15	1.20	0.00	1165.07	-769.76	119.46	0.00	195.34	0.00	18.75	1.20	0.00	0.00	2247.92	1154.64	1631.17	1648.25	2247.92	1631.17
VANO 15	2.40	0.00	1128.61	-752.66	115.17	0.00	187.77	0.00	18.15	2.40	0.00	0.00	2174.57	1128.98	1546.70	1562.88	2174.57	1546.70
VANO 15	3.60	0.00	1093.44	-736.87	110.85	0.00	180.21	0.00	17.56	3.60	0.00	0.00	2103.15	1105.30	1462.10	1477.38	2103.15	1462.10
VANO 15	4.80	0.00	1059.56	-722.40	106.61	0.00	172.64	0.00	16.96	4.80	0.00	0.00	2033.65	1083.60	1377.38	1391.75	2033.65	1377.38
VANO 15	4.80	0.00	1059.56	-722.40	106.61	0.00	172.64	0.00	16.96	4.80	0.00	0.00	2033.65	1083.60	1377.38	1391.75	2033.65	1377.38
VANO 15	6.00	0.00	1026.96	-709.24	102.32	0.00	165.07	0.00	16.37	6.00	0.00	0.00	1966.08	1063.87	1292.53	1306.01	1966.08	1292.53
VANO 15	7.20	0.00	995.65	-697.40	98.04	0.00	157.50	0.00	15.78	7.20	0.00	0.00	1900.44	1046.11	1207.57	1220.14	1900.44	1207.57
VANO 15	8.40	0.00	965.61	-686.88	93.75	0.00	149.93	0.00	15.18	8.40	0.00	0.00	1836.73	1030.32	1122.49	1134.16	1836.73	1122.49
VANO 15	9.60	0.00	936.87	-677.67	89.47	0.00	142.37	0.00	14.59	9.60	0.00	0.00	1774.94	1016.51	1037.30	1048.08	1774.94	1037.30
VANO 15	9.60	0.00	936.87	-677.67	89.47	0.00	142.37	0.00	14.59	9.60	0.00	0.00	1774.94	1016.51	1037.30	1048.08	1774.94	1037.30
VANO 15	10.80	0.00	909.41	-669.78	85.19	0.00	134.80	0.00	13.99	10.80	0.00	0.00	1715.08	1004.67	952.02	961.90	1715.08	952.02
VANO 15	12.00	0.00	883.23	-663.21	80.96	0.00	127.23	0.00	13.40	12.00	0.00	0.00	1657.14	994.81	866.64	875.62	1657.14	866.64
VANO 15	13.20	0.00	858.34	-657.95	76.62	0.00	119.66	0.00	12.81	13.20	0.00	0.00	1601.13	986.92	781.17	789.25	1601.13	781.17
VANO 15	14.40	0.00	834.73	-654.00	72.33	0.00	112.09	0.00	12.21	14.40	0.00	0.00	1547.05	981.00	695.63	702.80	1547.05	695.63
VANO 15	14.40	0.00	834.73	-654.00	72.33	0.00	112.09	0.00	12.21	14.40	0.00	0.00	1547.05	981.00	678.68	685.86	1547.05	678.68
VANO 15	15.60	0.00	812.41	-651.37	68.05	0.00	104.53	0.00	11.62	15.60	0.00	0.00	1494.90	977.06	593.06	599.34	1494.90	593.06
VANO 15	16.80	0.00	791.37	-650.06	63.77	0.00	96.96	0.00	11.02	16.80	0.00	0.00	1444.67	975.09	507.38	512.75	1444.67	507.38
VANO 15	18.00	0.00	771.61	-650.07	59.48	0.00	89.39	0.00	10.43	18.00	0.00	0.00	1396.37	975.10	421.64	426.11	1396.37	421.64
VANO 15	19.20	0.00	753.21	-651.44	55.20	0.00	81.82	0.00	9.84	19.20	0.00	0.00	1350.10	977.16	335.85	339.43	1350.10	335.85
VANO 15	19.20	0.00	753.21	-651.44	55.20	0.00	81.82	0.00	9.84	19.20	0.00	0.00	1350.10	977.16	335.85	339.43	1350.10	335.85
VANO 15	20.40	0.00	736.24	-654.23	50.91	0.00	74.25	0.00	9.24	20.40	0.00	0.00	1305.97	981.35	250.03	252.70	1305.97	250.03
VANO 15	21.60	0.00	720.68	-658.45	46.62	0.00	66.69	0.00	8.65	21.60	0.00	0.00	1263.97	987.67	164.17	165.95	1263.97	164.17
VANO 15	22.80	0.00	706.55	-664.09	42.35	0.00	59.12	0.00	8.05	22.80	0.00	0.00	1224.10	996.13	78.30	79.18	1224.10	78.30
VANO 15	24.00	0.00	693.83	-671.15	38.06	0.00	51.55	0.00	7.46	24.00	0.00	0.00	1186.36	1006.72	7.60	7.58	1186.36	7.60
VANO 15	24.00	0.00	693.83	-671.15	38.06	0.00	51.55	0.00	7.46	24.00	0.00	0.00	1186.36	1006.72	7.60	7.58	1186.36	7.60
VANO 15	25.20	0.00	682.55	-679.63	33.78	0.00	43.98	0.00	6.87	25.20	0.00	0.00	1150.76	1019.45	94.38	93.46	1150.76	94.38
VANO 15	26.40	0.00	675.56	-692.42	29.49	0.00	40.78	-4.37	6.27	26.40	0.00	0.00	1128.16	1045.19	181.15	179.33	1128.16	181.15
VANO 15	27.60	0.00	670.76	-707.40	25.21	0.00	39.44	-9.90	5.68	27.60	0.00	0.00	1111.63	1075.95	267.91	265.18	1111.63	267.91
VANO 15	28.80	0.00	667.39	-723.80	20.93	0.00	39.41	-15.43	5.08	28.80	0.00	0.00	1099.22	1108.84	354.63	351.01	1108.84	351.01
VANO 15	28.80	0.00	667.39	-723.80	20.93	0.00	39.41	-15.43	5.08	28.80	0.00	0.00	1099.22	1108.84	354.63	351.01	1108.84	351.01
VANO 15	30.00	0.00	665.44	-741.62	16.64	0.00	39.39	-20.96	4.49	30.00	0.00	0.00	1088.94	1143.86	441.32	436.80	1143.86	436.80
VANO 15	31.20	0.00	664.85	-760.79	12.36	0.00	39.37	-26.49	3.90	31.20	0.00	0.00	1080.72	1180.92	527.96	522.54	1180.92	522.54
VANO 15	32.40	0.00	665.58	-781.25	8.07	-3.20	39.35	-32.02	3.30	32.40	0.00	0.00	1074.47	1224.70	614.55	608.23	1224.70	608.23
VANO 15	33.60	0.00	667.63	-802.99	3.79	-7.45	39.33	-37.55	2.71	33.60	0.00	0.00	1070.19	1271.98	701.07	693.85	1271.98	693.85
VANO 15	33.60	0.00	667.63	-802.99	3.79	-7.45	39.33	-37.55	2.71	33.60	0.00	0.00	1070.19	1271.98	701.07	693.85	1271.98	693.85
VANO 15	34.80	0.00	671.00	-826.02	0.00	-11.73	39.31	-43.08	2.11	34.80	0.00	0.00	1068.62	1321.25	787.52	779.40	1321.25	779.40
VANO 15	36.00	0.00	675.67	-850.33	0.00	-16.02	39.29	-48.61	1.52	36.00	0.00	0.00	1074.72	1372.43	873.89	864.87	1372.43	864.87
VANO 15	37.20	0.00	681.67	-875.93	0.00	-20.30	39.26	-54.14	0.93	37.20	0.00	0.00	1082.79	1425.55	960.17	950.25	1425.55	950.25
VANO 15	38.40	0.00	688.98	-902.81	0.00	-24.59	39.24	-59.67	0.33	38.40	0.00	0.00	1092.83	1480.59	1046.36	1035.54	1480.59	1035.54
VANO 15	38.40	0.00	688.98	-902.81	0.00	-24.59	39.24	-59.67	0.33	38.40	0.00	0.00	1092.83	1480.59	1046.36	1035.54	1480.59	1035.54
VANO 15	39.60	0.00	697.60	-930.97	0.00	-28.87	39.22	-65.20	-0.26	39.60	0.00	0.00	1105.24	1537.82	1132.45	1120.73	1537.82	1120.73
VANO 15	40.80	0.00	707.54	-960.42	0.00	-33.15	39.20	-70.73	-0.86	40.80	0.00	0.00	1120.12	1597.31	1218.43	1205.81	1597.31	1205.81
VANO 15	42.00	0.00	718.80	-991.16	0.00	-37.44	39.18	-76.25	-1.45	42.00	0.00	0.00	1136.97	1658.72	1304.30	1290.78	1658.72	1290.78
VANO 15	43.20	0.00	731.37	-1023.17	0.00	-41.72	39.16	-81.78	-2.04	43.20	0.00	0.00	1155.79	1722.07	1390.05	1375.63	1722.07	1375.63
VANO 15	43.20	0.00	731.37	-1023.17	0.00	-41.72	39.16	-81.78	-2.04	43.20	0.00	0.00	1155.79	1722.07	1390.05	1375.63	1722.07	1375.63
VANO 15	44.40	0.00	745.26	-1056.48	0.00	-46.01	39.13	-87.31	-2.64	44.40	0.00	0.00	1176.59	1787.33	1475.68	1460.36	1787.33	1460.36
VANO 15	45.60	0.00	760.46	-1091.06	0.00	-50.29	39.11	-92.84	-3.23	45.60	0.00	0.00	1199.37	1854.53	1561.19	1544.96	1854.53	1544.96
VANO 15	46.80	0.00	776.98	-1126.94	0.00	-54.57	39.09	-98.37	-3.83	46.80	0.00	0.00	1224.11	1923.65	1646.56	1629.44	1923.65	1629.44
VANO 16	0.00	0.00	1209.84	-803.42	111.19	0.00	187.63	0.00	16.89	0.00	0.00	0.00	2288.31	1205.13	1719.36	1737.37	2288.31	1719.36
VANO 16	1.20	0.00	1172.45	-785.34	106.90	0.00	180.03	0.00	16.29	1.20	0.00	0.00	2213.51	1178.01	1635.02	1652.14	2213.51	1635.02
VANO 16	2.40	0.00	1136.33	-768.57	102.62	0.00	172.44	0.00	15.70	2.40	0.00	0.00	2140.63	1152.85	1550.55	1566.77	2140.63	1550.55
VANO 16	3.60	0.00	1101.49	-753.10	98.33	0.00	164.65	0.00	15.10	3.60	0.00	0.00	2069.66	1129.66	1465.96	1481.27	2069.66	1465.96
VANO 16	4.80	0.00	1067.92	-738.95	94.05	0.00	157.25	0.00	14.51	4.80	0.00	0.00	2000.60	1108.42	1381.23	1395.64	2000.60	1381.23
VANO 16	4.80	0.00	1067.92	-738.95	94.05	0.00	157.25	0.00	14.51	4.80	0.00	0.00	2000.60	1108.42	1381.23	1395.64	2000.60	1381.23
VANO 16	6.00	0.00	1035.63	-726.10	89.77	0.00	149.66	0.00	13.92	6.00	0.00	0.00	1933.46	1089.14	1296.38	1309.90	1933.46	1296.38
VANO 16	7.20	0.00	1004.61	-714.55	85.48	0.00	142.07	0.00	13.32	7.20	0.00	0.00	1868.23	1071.83	1211.42	1224.03	1868.23	1211.42
VANO 16	8.40	0.00	974.87	-704.31	81.20	0.00	134.47	0.00	12.73	8.40	0.00	0.00	1804.91	1056.47	1126.34	1138.06	1804.91	1126.34
VANO 16	9.60	0.00	946.41	-695.38	76.91	0.00	126.88	0.00	12.13	9.60	0.00	0.00	1743.51	1043.07	1041.16	1051.97	1743.51	1041.16
VANO 16	9.60	0.00	946.41	-695.38	76.91	0.00	126.88	0.00	12.13	9.60	0.00	0.00	1743.51	1043.07	1041.16	1051.97	1743.51	1041.16
VANO 16	10.80	0.00	919.22	-687.76	72.63	0.00	119.29	0.00	11.54	10.80	0.00	0.00	1684.02	1031.64	955.88	965.79	1684.02	955.88
VANO 16	12.00	0.00	893.31	-681.44	68.35	0.00	111.69	0.00	10.95	12.00	0.00	0.00	1626.44	1022.16	870.50	879.51	1626.44	870.50
VANO 16	13.20	0.00	868.68	-676.43	64.06	0.00	104.10	0.00	10.35	13.20	0.00	0.00	1570.78	1014.64	785.04	793.15	1570.78	785.04
VANO 16	14.40	0.00	845.32	-672.73	59.78	0.00	96.50	0.00	9.76	14.40	0.00	0.00	1517.04	1009.09	699.49	706.70	1517.04	699.49
VANO 16	14.40	0.00	845.32	-672.73	59.78	0.00	96.50	0.00	9.76	14.40	0.00	0.00	1517.04	1009.09	682.55	689.76	1517.04	682.55
VANO 16	15.60	0.00	823.23	-670.33	55.49	0.00	88.91	0.00	9.16	15.60	0.00	0.00	1465.20	1005.49	596.93	603.24	1465.20	596.93
VANO 16	16.80	0.00	802.42	-669.24	51.21	0.00	81.32	0.00	8.57	16.80	0.00	0.00	1415.28	1003.86	511.25	516.66	1415.28	511.25
VANO 16	18.00	0.00	782.89	-669.45	46.93	0.00	73.72	0.00	7.98	18.00	0.00	0.00	1367.27	1004.18	425.51	430.02	1367.27	425.51
VANO 16	19.20	0.00	764.70	-671.03	42.64	0.00	66.13	0.00	7.38	19.20	0.00	0.00	1321.28	1006.54	339.73	343.34	1321.28	339.73
VANO 16	19.20	0.00	764.70	-671.03	42.64	0.00	66.13	0.00	7.38	19.20	0.00	0.00	1321.28	1006.54	339.73	343.34	1321.28	339.73
VANO 16	20.40	0.00	747.92	-674.02	38.36	0.00	58.54	0.00	6.79	20.40	0.00	0.00	1277.41	1011.02	253.91	256.62	1277.41	253.91
VANO 16	21.60	0.00	732.56	-678.42	34.07	0.00	50.94	0.00	6.19	21.60	0.00	0.00	1235.66	1017.62	168.06	169.87	1235.56	168.06
VANO 16	22.80	0.00	718.61	-684.23	29.79	0.00	43.35	0.00	5.60	22.80	0.00	0.00	1196.02	1026.34	82.19	83.10	1196.02	82.19
VANO 16	24.00	0.00	706.07	-691.45	25.51	0.00	35.76	0.00	5.01	24.00	0.00	0.00	1158.51	1037.18	4.12	4.12	1158.51	4.12
VANO 16	24.00	0.00	706.07	-691.45	25.51	0.00	35.76	0.00	5.01	24.00	0.00	0.00	1158.51	1037.18	4.12	4.12	1158.51	4.12
VANO 16	25.20	0.00	695.73	-700.88	21.22	0.00	30.13	-1.19	4.41	25.20	0.00	0.00	1127.24	1053.11	90.46	89.57	1127.24	90.46
VANO 16	26.40	0.00	689.66	-714.58	16.94	0.00	30.11	-6.72	3.82	26.40	0.00	0.00	1110.79	1081.95	177.22	175.44	1110.79	177.22
VANO 16	27.60	0.00	685.01	-729.69	12.65	0.00	30.08	-12.25	3.22	27.60	0.00	0.00	1096.46	1112.91	263.97	261.29	1112.91	261.29
VANO 16	28.80	0.00	681.77	-746.21	8.37	-2.29	30.06	-17.78	2.63	28.80	0.00	0.00	1084.25	1149.42	350.70	347.11	1149.42	347.11
VANO 16	28.80	0.00	681.77	-746.21	8.37	-2.29	30.06	-17.78	2.63	28.80	0.00	0.00	1084.25	1149.42	350.70	347.11	1149.42	347.11
VANO 16	30.00	0.00	679.94	-764.15	4.09	-6.57	30.04	-23.31	2.04	30.00	0.00	0.00	1074.15	1191.05	437.38	432.89	1191.05	432.89
VANO 16	31.20	0.00	679.47	-783.43	0.00	-10.86	30.02	-28.84	1.44	31.20	0.00	0.00	1066.40	1234.69	524.02	518.63	1234.69	518.63
VANO 16	32.40	0.00	680.31	-803.98	0.00	-15.14	30.00	-34.37	0.85	32.40	0.00	0.00	1066.73	1280.24	610.61	604.32	1280.24	604.32
VANO 16	33.60	0.00	682.45	-825.81	0.00	-19.42	29.98	-39.90	0.25	33.60	0.00	0.00	1069.02	1327.71	697.12	689.94	1327.71	689.94
VANO 16	33.60	0.00	682.45	-825.81	0.00	-19.42	29.98	-39.90	0.25	33.60	0.00	0.00	1069.02	1327.71	697.12	689.94	1327.71	689.94
VANO 16	34.80	0.00	685.90	-848.92	0.00	-23.71	29.95	-45.43	-0.34	34.80	0.00	0.00	1073.79	1377.43	783.57	775.48	1377.43	775.48
VANO 16	36.00	0.00	690.66	-873.30	0.00	-27.99	29.93	-50.96	-0.93	36.00	0.00	0.00	1080.89	1429.32	869.94	860.95	1429.32	860.95
VANO 16	37.20	0.00	696.72	-898.96	0.00	-32.28	29.91	-56.49	-1.53	37.20	0.00	0.00	1089.95	1483.12	956.22	946.33	1483.12	946.33
VANO 16	38.40	0.00	704.10	-925.89	0.00	-36.56	29.89	-62.02	-2.12	38.40	0.00	0.00	1100.98	1538.83	1042.41	1031.62	1538.83	1031.62
VANO 16	38.40	0.00	704.10	-925.89	0.00	-36.56	29.89	-62.02	-2.12	38.40	0.00	0.00	1100.98	1538.83	1042.41	1031.62	1538.83	1031.62
VANO 16	39.60	0.00	712.77	-954.10	0.00	-40.84	29.87	-67.55	-2.72	39.60	0.00	0.00	1113.96	1596.46	1128.49	1116.80	1596.46	1116.80
VANO 16	40.80	0.00	722.76	-983.59	0.00	-45.13	29.85	-73.08	-3.31	40.80	0.00	0.00	1128.91	1656.00	1214.47	1201.88	1656.00	1201.88
VANO 16	42.00	0.00	734.05	-1014.35	0.00	-49.41	29.82	-78.61	-3.90	42.00	0.00	0.00	1145.81	1717.46	1300.34	1286.85	1717.46	1286.85
VANO 16	43.20	0.00	746.65	-1046.39	0.00	-53.70	29.80	-85.74	-4.50	43.20	0.00	0.00	1164.67	1783.23	1386.09	1371.70	1783.23	1371.70
VANO 16	43.20	0.00	746.65	-1046.39	0.00	-53.70	29.80	-85.74	-4.50	43.20	0.00	0.00	1164.67	1783.23	1386.09	1371.70	1783.23	1371.70
VANO 16	44.40	0.00	760.55	-1079.70	0.00	-57.98	29.78	-93.33	-5.09	44.40	0.00	0.00	1185.50	1851.61	1471.72	1456.43	1851.61	1456.43
VANO 16	45.60	0.00	775.76	-1114.29	0.00	-62.26	29.76	-100.93	-5.69	45.60	0.00	0.00	1208.28	1921.91	1557.22	1541.03	1921.91	1541.03
VANO 16	46.80	0.00	792.28	-1150.15	0.00	-66.55	29.74	-108.52	-6.28	46.80	0.00	0.00	1233.03	1994.11	1642.59	1625.51	1994.11	1625.51

RESUMEN DE ESFUERZOS TORSORES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

		1	1	1	1	0.6	0.6	0.6	MULTIPLICADOR(Perdidas x Coef.Seg) 0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
		CARGAS	POSITIVOS ENVOLVENTE	NEGATIVOS ENVOLVENTE	POSITIV	NEGATIV	POSITIV	NEGATIV	Sobrec	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR	TORSOR	TORSOR +	TORSOR -	TORSOR	CORTAN
VANO 17	0.00	0.00	1214.48	-810.66	107.39	0.00	182.26	0.00	16.15	0.00	0.00	0.00	2280.43	1215.99	1717.77	1735.77	2280.43	1717.77
VANO 17	1.20	0.00	1177.15	-792.65	103.11	0.00	174.64	0.00	15.55	1.20	0.00	0.00	2205.69	1188.97	1633.44	1650.54	2205.69	1633.44
VANO 17	2.40	0.00	1141.10	-775.94	98.83	0.00	167.01	0.00	14.96	2.40	0.00	0.00	2132.85	1163.91	1548.97	1565.17	2132.85	1548.97
VANO 17	3.60	0.00	1106.32	-760.53	94.54	0.00	159.39	0.00	14.37	3.60	0.00	0.00	2061.92	1140.80	1464.37	1479.67	2061.92	1464.37
VANO 17	4.80	0.00	1072.81	-746.43	90.26	0.00	151.76	0.00	13.77	4.80	0.00	0.00	1992.90	1119.64	1379.65	1394.05	1992.90	1379.65
VANO 17	4.80	0.00	1072.81	-746.43	90.26	0.00	151.76	0.00	13.77	4.80	0.00	0.00	1992.90	1119.64	1379.65	1394.05	1992.90	1379.65
VANO 17	6.00	0.00	1040.57	-733.63	85.97	0.00	144.14	0.00	13.18	6.00	0.00	0.00	1925.79	1100.44	1294.80	1308.30	1925.79	1294.80
VANO 17	7.20	0.00	1009.61	-722.13	81.68	0.00	136.51	0.00	12.58	7.20	0.00	0.00	1860.59	1083.20	1209.84	1222.44	1860.59	1209.84
VANO 17	8.40	0.00	979.92	-711.94	77.41	0.00	128.89	0.00	11.99	8.40	0.00	0.00	1797.30	1067.91	1124.77	1136.47	1797.30	1124.77
VANO 17	9.60	0.00	951.50	-703.05	73.13	0.00	121.26	0.00	11.40	9.60	0.00	0.00	1735.91	1054.58	1039.59	1050.39	1735.91	1039.59
VANO 17	9.60	0.00	951.50	-703.05	73.13	0.00	121.26	0.00	11.40	9.60	0.00	0.00	1735.91	1054.58	1039.59	1050.39	1735.91	1039.59
VANO 17	10.80	0.00	924.35	-695.46	68.84	0.00	113.64	0.00	10.80	10.80	0.00	0.00	1676.44	1043.20	954.31	964.21	1676.44	954.31
VANO 17	12.00	0.00	898.48	-689.18	64.55	0.00	106.01	0.00	10.21	12.00	0.00	0.00	1618.87	1033.77	868.93	877.93	1618.87	868.93
VANO 17	13.20	0.00	873.88	-684.20	60.27	0.00	98.38	0.00	9.61	13.20	0.00	0.00	1563.22	1026.31	783.47	791.57	1563.22	783.47
VANO 17	14.40	0.00	850.55	-680.53	55.99	0.00	90.76	0.00	9.02	14.40	0.00	0.00	1509.47	1020.79	697.93	705.13	1509.47	697.93
VANO 17	14.40	0.00	850.55	-680.53	55.99	0.00	90.76	0.00	9.02	14.40	0.00	0.00	1509.47	1020.79	680.99	688.18	1509.47	680.99
VANO 17	15.60	0.00	828.49	-678.16	51.70	0.00	83.13	0.00	8.43	15.60	0.00	0.00	1457.63	1017.23	595.37	601.67	1457.63	595.37
VANO 17	16.80	0.00	807.71	-677.09	47.42	0.00	75.51	0.00	7.83	16.80	0.00	0.00	1407.70	1015.63	509.69	515.09	1407.70	509.69
VANO 17	18.00	0.00	788.20	-677.32	43.13	0.00	67.88	0.00	7.24	18.00	0.00	0.00	1359.68	1015.98	423.96	428.46	1359.68	423.96
VANO 17	19.20	0.00	770.03	-678.91	38.85	0.00	60.26	0.00	6.64	19.20	0.00	0.00	1313.67	1018.37	338.18	341.78	1313.67	338.18
VANO 17	19.20	0.00	770.03	-678.91	38.85	0.00	60.26	0.00	6.64	19.20	0.00	0.00	1313.67	1018.37	338.18	341.78	1313.67	338.18
VANO 17	20.40	0.00	753.27	-681.91	34.57	0.00	52.63	0.00	6.05	20.40	0.00	0.00	1269.77	1022.87	252.36	255.06	1269.77	252.36
VANO 17	21.60	0.00	737.91	-686.32	30.28	0.00	45.01	0.00	5.46	21.60	0.00	0.00	1227.99	1029.48	166.51	168.31	1227.99	166.51
VANO 17	22.80	0.00	723.97	-692.14	26.00	0.00	37.38	0.00	4.86	22.80	0.00	0.00	1188.32	1038.21	80.65	81.55	1188.32	80.65
VANO 17	24.00	0.00	711.44	-699.37	21.71	0.00	29.77	0.00	4.27	24.00	0.00	0.00	1150.79	1049.05	5.23	5.22	1150.79	5.23
VANO 17	24.00	0.00	711.44	-699.37	21.71	0.00	29.77	0.00	4.27	24.00	0.00	0.00	1150.79	1049.05	5.23	5.22	1150.79	5.23
VANO 17	25.20	0.00	701.60	-709.29	17.43	0.00	26.18	-1.96	3.67	25.20	0.00	0.00	1123.33	1066.88	92.00	91.10	1123.33	92.00
VANO 17	26.40	0.00	695.53	-722.99	13.15	0.00	26.16	-7.49	3.08	26.40	0.00	0.00	1106.88	1095.71	178.76	176.96	1106.88	178.76
VANO 17	27.60	0.00	690.87	-738.09	8.86	0.00	26.14	-13.02	2.49	27.60	0.00	0.00	1092.54	1126.66	265.51	262.81	1126.66	262.81
VANO 17	28.80	0.00	687.62	-754.60	4.58	0.00	26.12	-18.55	1.89	28.80	0.00	0.00	1080.31	1159.72	352.23	348.63	1159.72	348.63
VANO 17	28.80	0.00	687.62	-754.60	4.58	0.00	26.12	-18.55	1.89	28.80	0.00	0.00	1080.31	1159.72	352.23	348.63	1159.72	348.63
VANO 17	30.00	0.00	685.78	-772.52	0.29	-3.20	26.09	-24.08	1.30	30.00	0.00	0.00	1070.20	1199.69	438.91	434.41	1199.69	434.41
VANO 17	31.20	0.00	685.29	-791.77	0.00	-7.49	26.07	-29.61	0.70	31.20	0.00	0.00	1068.10	1243.30	525.55	520.14	1243.30	520.14
VANO 17	32.40	0.00	686.11	-812.31	0.00	-11.77	26.05	-35.14	0.11	32.40	0.00	0.00	1068.41	1288.82	612.13	605.82	1288.82	605.82
VANO 17	33.60	0.00	688.23	-834.11	0.00	-16.05	26.03	-40.67	-0.48	33.60	0.00	0.00	1071.39	1336.73	698.64	691.44	1336.73	691.44
VANO 17	33.60	0.00	688.23	-834.11	0.00	-16.05	26.03	-40.67	-0.48	33.60	0.00	0.00	1071.39	1336.73	698.64	691.44	1336.73	691.44
VANO 17	34.80	0.00	691.65	-857.19	0.00	-20.34	26.01	-46.20	-1.08	34.80	0.00	0.00	1076.49	1386.66	785.08	776.98	1386.66	776.98
VANO 17	36.00	0.00	696.38	-881.54	0.00	-24.62	25.99	-51.72	-1.67	36.00	0.00	0.00	1083.55	1438.50	871.45	862.45	1438.50	862.45
VANO 17	37.20	0.00	702.41	-907.16	0.00	-28.91	25.96	-57.25	-2.27	37.20	0.00	0.00	1092.56	1492.24	957.73	947.82	1492.24	947.82
VANO 17	38.40	0.00	709.74	-934.05	0.00	-33.19	25.94	-62.78	-2.86	38.40	0.00	0.00	1103.53	1547.90	1043.91	1033.11	1547.90	1033.11
VANO 17	38.40	0.00	709.74	-934.05	0.00	-33.19	25.94	-62.78	-2.86	38.40	0.00	0.00	1103.53	1547.90	1043.91	1033.11	1547.90	1033.11
VANO 17	39.60	0.00	718.38	-962.22	0.00	-37.47	25.92	-69.38	-3.45	39.60	0.00	0.00	1116.45	1607.06	1129.99	1118.29	1607.06	1118.29
VANO 17	40.80	0.00	728.32	-991.68	0.00	-41.76	25.90	-77.00	-4.05	40.80	0.00	0.00	1131.33	1669.68	1215.97	1203.36	1669.68	1203.36
VANO 17	42.00	0.00	739.56	-1022.37	0.00	-46.04	25.88	-84.63	-4.64	42.00	0.00	0.00	1148.16	1734.20	1301.83	1288.33	1734.20	1288.33
VANO 17	43.20	0.00	752.11	-1054.36	0.00	-50.33	25.86	-92.25	-5.24	43.20	0.00	0.00	1166.95	1800.64	1387.58	1373.18	1800.64	1373.18
VANO 17	43.20	0.00	752.11	-1054.36	0.00	-50.33	25.86	-92.25	-5.24	43.20	0.00	0.00	1166.95	1800.64	1387.58	1373.18	1800.64	1373.18
VANO 17	44.40	0.00	765.96	-1087.61	0.00	-54.61	25.83	-99.88	-5.83	44.40	0.00	0.00	1187.69	1868.98	1473.20	1457.90	1868.98	1457.90
VANO 17	45.60	0.00	781.11	-1122.14	0.00	-58.89	25.81	-107.50	-6.42	45.60	0.00	0.00	1210.39	1939.24	1558.70	1542.50	1939.24	1542.50
VANO 17	46.80	0.00	797.57	-1157.94	0.00	-63.18	25.79	-115.13	-7.02	46.80	0.00	0.00	1235.04	2011.40	1644.08	1626.97	2011.40	1626.97
VANO 18	0.00	0.00	1215.89	-817.12	98.68	0.00	169.45	0.00	14.44	0.00	0.00	0.00	2247.68	1225.68	1717.21	1735.20	2247.68	1717.21
VANO 18	1.20	0.00	1178.69	-799.23	94.39	0.00	161.82	0.00	13.84	1.20	0.00	0.00	2173.12	1198.85	1632.87	1649.97	2173.12	1632.87
VANO 18	2.40	0.00	1142.75	-782.64	90.11	0.00	154.20	0.00	13.25	2.40	0.00	0.00	2100.46	1173.96	1548.41	1564.60	2100.46	1548.41
VANO 18	3.60	0.00	1108.09	-767.35	85.82	0.00	146.57	0.00	12.65	3.60	0.00	0.00	2029.71	1151.02	1463.81	1479.10	2029.71	1463.81
VANO 18	4.80	0.00	1074.69	-753.35	81.54	0.00	138.94	0.00	12.06	4.80	0.00	0.00	1960.85	1130.03	1379.08	1393.48	1960.85	1379.08
VANO 18	4.80	0.00	1074.69	-753.35	81.54	0.00	138.94	0.00	12.06	4.80	0.00	0.00	1960.85	1130.03	1379.08	1393.48	1960.85	1379.08
VANO 18	6.00	0.00	1042.56	-740.66	77.26	0.00	131.32	0.00	11.47	6.00	0.00	0.00	1893.90	1110.98	1294.24	1307.73	1893.90	1294.24
VANO 18	7.20	0.00	1011.70	-729.26	72.97	0.00	123.69	0.00	10.87	7.20	0.00	0.00	1828.86	1093.89	1209.28	1221.87	1828.86	1209.28
VANO 18	8.40	0.00	982.11	-719.16	68.69	0.00	116.07	0.00	10.28	8.40	0.00	0.00	1765.71	1078.75	1124.20	1135.90	1765.71	1124.20
VANO 18	9.60	0.00	953.78	-710.37	64.40	0.00	108.44	0.00	9.68	9.60	0.00	0.00	1704.47	1065.55	1039.02	1049.82	1704.47	1039.02
VANO 18	9.60	0.00	953.78	-710.37	64.40	0.00	108.44	0.00	9.68	9.60	0.00	0.00	1704.47	1065.55	1039.02	1049.82	1704.47	1039.02
VANO 18	10.80	0.00	926.73	-702.87	60.12	0.00	100.82	0.00	9.09	10.80	0.00	0.00	1645.13	1054.30	953.74	963.64	1645.13	953.74
VANO 18	12.00	0.00	900.94	-696.67	55.84	0.00	93.19	0.00	8.50	12.00	0.00	0.00	1587.70	1045.01	868.37	877.36	1587.70	868.37
VANO 18	13.20	0.00	876.42	-691.77	51.55	0.00	85.57	0.00	7.90	13.20	0.00	0.00	1532.17	1037.66	782.91	791.00	1532.17	782.91
VANO 18	14.40	0.00	853.17	-688.17	47.27	0.00	77.94	0.00	7.31	14.40	0.00	0.00	1478.54	1032.26	697.37	704.56	1478.54	697.37
VANO 18	14.40	0.00	853.17	-688.17	47.27	0.00	77.94	0.00	7.31	14.40	0.00	0.00	1478.54	1032.26	680.42	687.62	1478.54	680.42
VANO 18	15.60	0.00	831.19	-685.87	42.98	0.00	70.31	0.00	6.71	15.60	0.00	0.00	1426.81	1028.80	594.81	601.10	1426.81	594.81
VANO 18	16.80	0.00	810.48	-684.87	38.70	0.00	62.69	0.00	6.12	16.80	0.00	0.00	1376.98	1027.30	509.13	514.53	1376.98	509.13
VANO 18	18.00	0.00	791.04	-685.17	34.42	0.00	55.06	0.00	5.53	18.00	0.00	0.00	1329.06	1027.75	423.40	427.89	1329.06	423.40
VANO 18	19.20	0.00	772.93	-686.81	30.13	0.00	47.44	0.00	4.93	19.20	0.00	0.00	1283.15	1030.22	337.62	341.21	1283.15	337.62
VANO 18	19.20	0.00	772.93	-686.81	30.13	0.00	47.44	0.00	4.93	19.20	0.00	0.00	1283.15	1030.22	337.62	341.21	1283.15	337.62
VANO 18	20.40	0.00	756.22	-689.87	25.85	0.00	39.81	0.00	4.34	20.40	0.00	0.00	1239.33	1034.80	251.80	254.50	1239.33	251.80
VANO 18	21.60	0.00	740.92	-694.32	21.56	0.00	32.19	0.00	3.74	21.60	0.00	0.00	1197.63	1041.49	165.96	167.75	1197.63	165.96
VANO 18	22.80	0.00	727.03	-700.19	17.28	0.00	24.56	0.00	3.15	22.80	0.00	0.00	1158.03	1050.28	80.10	80.99	1158.03	80.10
VANO 18	24.00	0.00	714.54	-707.45	13.00	0.00	16.94	0.00	2.56	24.00	0.00	0.00	1120.54	1061.18	5.78	5.78	1120.54	5.78
VANO 18	24.00	0.00	714.54	-707.45	13.00	0.00	16.94	0.00	2.56	24.00	0.00	0.00	1120.54	1061.18	5.78	5.78	1120.54	5.78
VANO 18	25.20	0.00	705.72	-718.39	8.71	0.00	14.81	-3.44	1.96	25.20	0.00	0.00	1096.81	1082.74	92.56	91.65	1096.81	92.56
VANO 18	26.40	0.00	699.68	-732.11	4.43	0.00	14.79	-8.97	1.37	26.40	0.00	0.00	1080.40	1111.62	179.32	177.51	1111.62	177.51
VANO 18	27.60	0.00	695.05	-747.24	0.14	-0.38	14.77	-14.50	0.77	27.60	0.00	0.00	1066.11	1143.18	266.06	263.36	1143.18	263.36
VANO 18	28.80	0.00	691.82	-763.77	0.00	-4.62	14.75	-20.03	0.18	28.80	0.00	0.00	1060.12	1182.62	352.78	349.17	1182.62	349.17
VANO 18	28.80	0.00	691.82	-763.77	0.00	-4.62	14.75	-20.03	0.18	28.80	0.00	0.00	1060.12	1182.62	352.78	349.17	1182.62	349.17
VANO 18	30.00	0.00	690.00	-781.70	0.00	-8.88	14.73	-25.56	-0.41	30.00	0.00	0.00	1057.08	1224.62	439.46	434.95	1224.62	434.95
VANO 18	31.20	0.00	689.52	-800.97	0.00	-13.17	14.71	-31.09	-1.01	31.20	0.00	0.00	1056.34	1268.84	526.09	520.69	1268.84	520.69
VANO 18	32.40	0.00	690.35	-821.51	0.00	-17.45	14.68	-36.62	-1.60	32.40	0.00	0.00	1057.55	1314.96	612.67	606.36	1314.96	606.36
VANO 18	33.60	0.00	692.48	-843.31	0.00	-21.73	14.66	-44.07	-2.20	33.60	0.00	0.00	1060.71	1365.87	699.19	691.98	1365.87	691.98
VANO 18	33.60	0.00	692.48	-843.31	0.00	-21.73	14.66	-44.07	-2.20	33.60	0.00	0.00	1060.71	1365.87	699.19	691.98	1365.87	691.98
VANO 18	34.80	0.00	695.90	-866.39	0.00	-26.02	14.64	-51.69	-2.79	34.80	0.00	0.00	1065.81	1418.94	785.63	777.52	1418.94	777.52
VANO 18	36.00	0.00	700.62	-890.73	0.00	-30.30	14.62	-59.32	-3.38	36.00	0.00	0.00	1072.86	1473.91	871.99	862.98	1473.91	862.98
VANO 18	37.20	0.00	706.65	-916.34	0.00	-34.59	14.60	-66.94	-3.98	37.20	0.00	0.00	1081.86	1530.79	958.27	948.36	1530.79	948.36
VANO 18	38.40	0.00	713.97	-943.22	0.00	-38.87	14.58	-74.57	-4.57	38.40	0.00	0.00	1092.81	1589.56	1044.45	1033.64	1589.56	1033.64
VANO 18	38.40	0.00	713.97	-943.22	0.00	-38.87	14.58	-74.57	-4.57	38.40	0.00	0.00	1092.81	1589.56	1044.45	1033.64	1589.56	1033.64
VANO 18	39.60	0.00	722.59	-971.37	0.00	-43.15	14.55	-82.20	-5.17	39.60	0.00	0.00	1105.71	1650.24	1130.53	1118.82	1650.24	1118.82
VANO 18	40.80	0.00	732.51	-1000.79	0.00	-47.44	14.53	-89.82	-5.76	40.80	0.00	0.00	1120.56	1712.83	1216.50	1203.89	1712.83	1203.89
VANO 18	42.00	0.00	743.73	-1031.47	0.00	-51.72	14.51	-97.45	-6.35	42.00	0.00	0.00	1137.35	1777.31	1302.36	1288.86	1777.31	1288.86
VANO 18	43.20	0.00	756.24	-1063.42	0.00	-56.01	14.49	-105.07	-6.95	43.20	0.00	0.00	1156.10	1843.70	1388.11	1373.70	1843.70	1373.70
VANO 18	43.20	0.00	756.24	-1063.42	0.00	-56.01	14.49	-105.07	-6.95	43.20	0.00	0.00	1156.10	1843.70	1388.11	1373.70	1843.70	1373.70
VANO 18	44.40	0.00	770.06	-1096.64	0.00	-60.29	14.47	-112.70	-7.54	44.40	0.00	0.00	1176.79	1911.99	1473.74	1458.43	1911.99	1458.43
VANO 18	45.60	0.00	785.18	-1131.13	0.00	-64.57	14.45	-120.32	-8.14	45.60	0.00	0.00	1199.43	1982.18	1559.23	1543.03	1982.18	1543.03
VANO 18	46.80	0.00	801.59	-1166.89	0.00	-68.86	14.42	-127.95	-8.73	46.80	0.00	0.00	1224.02	2054.28	1644.61	1627.50	2054.28	1627.50

RESUMEN DE ESFUERZOS TORSORES

CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDADAD	1.0	1.0	1.0

		1	1	1		1	0.6	0.6	0.6	MULTIPLICADOR(Perdidas x Coef.Seg) 0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
		CARGAS	POSITIVOS ENVOLVENTE	NEGATIVOS ENVOLVENTE	POSITIV	NEGATIV	POSITIV	NEGATIV	Sobrec	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR	TORSOR	TORSOR +	TORSOR -	TORSOR	CORTAN
		t/m	t/m	t/m	t/m	t/m	t/m	t/m	t/m	t/m	t/m	t/m	t/m	t/m	t/m	t/m	t/m	t/m
VANO 19	0.00	0.00	1194.18	-811.50	71.5	0.00	132.20	-15.61	9.07	0.00	0.00	0.00	2110.42	1240.66	1719.54	1737.56	2110.42	1719.54
VANO 19	1.20	0.00	1157.14	-793.78	67.2	0.00	124.56	-15.63	8.48	1.20	0.00	0.00	0.00	2036.10	1214.12	1635.21	1652.33	2036.10	1635.21
VANO 19	2.40	0.00	1121.38	-777.36	62.9	0.00	116.93	-15.66	7.88	2.40	0.00	0.00	0.00	1963.69	1189.53	1550.74	1566.96	1963.69	1550.74
VANO 19	3.60	0.00	1086.88	-762.23	58.6	0.00	109.30	-15.69	7.29	3.60	0.00	0.00	0.00	1893.18	1166.89	1466.14	1481.46	1893.18	1466.14
VANO 19	4.80	0.00	1053.65	-748.41	54.3	0.00	101.67	-15.72	6.69	4.80	0.00	0.00	0.00	1824.57	1146.20	1381.42	1395.84	1824.57	1381.42
VANO 19	4.80	0.00	1053.65	-748.41	54.3	0.00	101.67	-15.72	6.69	4.80	0.00	0.00	0.00	1824.57	1146.20	1381.42	1395.84	1824.57	1381.42
VANO 19	6.00	0.00	1021.70	-735.89	50.0	0.00	94.04	-15.75	6.10	6.00	0.00	0.00	0.00	1757.87	1127.46	1296.57	1310.09	1757.87	1296.57
VANO 19	7.20	0.00	991.01	-724.67	45.8	0.00	86.40	-15.78	5.51	7.20	0.00	0.00	0.00	1693.08	1110.67	1211.61	1224.23	1693.08	1211.61
VANO 19	8.40	0.00	961.59	-714.75	41.5	0.00	78.77	-15.81	4.91	8.40	0.00	0.00	0.00	1630.18	1095.83	1126.54	1138.26	1630.18	1126.54
VANO 19	9.60	0.00	933.44	-706.13	37.2	0.00	71.14	-15.84	4.32	9.60	0.00	0.00	0.00	1569.19	1082.94	1041.36	1052.18	1569.19	1041.36
VANO 19	9.60	0.00	933.44	-706.13	37.2	0.00	71.14	-15.84	4.32	9.60	0.00	0.00	0.00	1569.19	1082.94	1041.36	1052.18	1569.19	1041.36
VANO 19	10.80	0.00	906.56	-698.80	32.9	0.00	63.51	-15.86	3.72	10.80	0.00	0.00	0.00	1510.11	1072.00	956.08	966.00	1510.11	956.08
VANO 19	12.00	0.00	880.95	-692.78	28.6	0.00	55.88	-15.89	3.13	12.00	0.00	0.00	0.00	1452.92	1063.01	870.71	879.72	1452.92	870.71
VANO 19	13.20	0.00	856.60	-688.06	24.3	0.00	48.25	-15.92	2.54	13.20	0.00	0.00	0.00	1397.64	1055.97	785.24	793.36	1397.64	785.24
VANO 19	14.40	0.00	833.53	-684.64	20.0	0.00	41.56	-15.95	1.94	14.40	0.00	0.00	0.00	1345.69	1050.88	699.70	706.92	1345.69	699.70
VANO 19	14.40	0.00	833.53	-684.64	20.0	0.00	41.56	-15.95	1.94	14.40	0.00	0.00	0.00	1345.69	1050.88	682.76	689.98	1345.69	682.76
VANO 19	15.60	0.00	811.72	-682.51	15.8	0.00	36.03	-15.98	1.35	15.60	0.00	0.00	0.00	1297.38	1047.74	597.15	603.47	1297.38	597.15
VANO 19	16.80	0.00	791.19	-681.69	11.5	0.00	30.50	-16.01	0.75	16.80	0.00	0.00	0.00	1250.96	1046.55	511.47	516.89	1250.96	511.47
VANO 19	18.00	0.00	771.92	-682.17	7.2	0.00	24.97	-16.04	0.16	18.00	0.00	0.00	0.00	1206.45	1047.31	425.74	430.26	1206.45	425.74
VANO 19	19.20	0.00	753.99	-684.00	2.9	0.00	19.45	-16.07	-0.43	19.20	0.00	0.00	0.00	1164.64	1050.53	339.96	343.58	1164.64	339.96
VANO 19	19.20	0.00	753.99	-684.00	2.9	0.00	19.45	-16.07	-0.43	19.20	0.00	0.00	0.00	1164.64	1050.53	339.96	343.58	1164.64	339.96
VANO 19	20.40	0.00	737.47	-687.23	0.0	-1.52	13.92	-16.10	-1.03	20.40	0.00	0.00	0.00	1127.08	1058.30	254.15	256.86	1127.08	254.15
VANO 19	21.60	0.00	722.35	-691.87	0.0	-5.81	8.39	-16.12	-1.62	21.60	0.00	0.00	0.00	1096.10	1072.33	168.30	170.12	1096.10	168.30
VANO 19	22.80	0.00	708.64	-697.91	0.0	-10.09	2.86	-16.15	-2.22	22.80	0.00	0.00	0.00	1067.24	1088.45	82.44	83.36	1088.45	83.36
VANO 19	24.00	0.00	698.09	-707.13	0.0	-14.38	0.00	-20.44	-2.81	24.00	0.00	0.00	0.00	1047.13	1115.73	3.98	3.98	1115.73	3.98
VANO 19	24.00	0.00	698.09	-707.13	0.0	-14.38	0.00	-20.44	-2.81	24.00	0.00	0.00	0.00	1047.13	1115.73	3.98	3.98	1115.73	3.98
VANO 19	25.20	0.00	690.83	-719.63	0.0	-18.66	0.00	-28.07	-3.40	25.20	0.00	0.00	0.00	1036.25	1152.95	90.18	89.30	1152.95	89.30
VANO 19	26.40	0.00	684.98	-733.53	0.0	-22.94	0.00	-35.71	-4.00	26.40	0.00	0.00	0.00	1027.47	1192.27	176.94	175.16	1192.27	175.16
VANO 19	27.60	0.00	680.53	-748.85	0.0	-27.23	0.00	-43.34	-4.59	27.60	0.00	0.00	0.00	1020.80	1233.71	263.69	261.01	1233.71	261.01
VANO 19	28.80	0.00	677.49	-765.56	0.0	-31.51	0.00	-50.97	-5.19	28.80	0.00	0.00	0.00	1016.24	1277.25	350.40	346.82	1277.25	346.82
VANO 19	28.80	0.00	677.49	-765.56	0.0	-31.51	0.00	-50.97	-5.19	28.80	0.00	0.00	0.00	1016.24	1277.25	350.40	346.82	1277.25	346.82
VANO 19	30.00	0.00	675.85	-783.68	0.0	-35.80	0.00	-58.60	-5.78	30.00	0.00	0.00	0.00	1013.78	1322.90	437.08	432.60	1322.90	432.60
VANO 19	31.20	0.00	675.57	-803.14	0.0	-40.08	0.00	-66.23	-6.37	31.20	0.00	0.00	0.00	1013.35	1370.55	523.71	518.33	1370.55	518.33
VANO 19	32.40	0.00	676.58	-823.87	0.0	-44.36	0.00	-73.87	-6.97	32.40	0.00	0.00	0.00	1014.88	1420.11	610.29	604.01	1420.11	604.01
VANO 19	33.60	0.00	678.90	-845.86	0.0	-48.65	0.00	-81.50	-7.56	33.60	0.00	0.00	0.00	1018.35	1471.57	696.80	689.62	1471.57	689.62
VANO 19	33.60	0.00	678.90	-845.86	0.0	-48.65	0.00	-81.50	-7.56	33.60	0.00	0.00	0.00	1018.35	1471.57	696.80	689.62	1471.57	689.62
VANO 19	34.80	0.00	682.51	-869.13	0.0	-52.93	0.00	-89.13	-8.16	34.80	0.00	0.00	0.00	1023.77	1524.94	783.24	775.16	1524.94	775.16
VANO 19	36.00	0.00	687.43	-893.66	0.0	-57.22	0.00	-96.76	-8.75	36.00	0.00	0.00	0.00	1031.14	1580.21	869.60	860.62	1580.21	860.62
VANO 19	37.20	0.00	693.64	-919.47	0.0	-61.50	0.00	-104.39	-9.34	37.20	0.00	0.00	0.00	1040.46	1637.38	955.88	945.99	1637.38	945.99
VANO 19	38.40	0.00	701.16	-946.54	0.0	-65.78	0.00	-112.02	-9.94	38.40	0.00	0.00	0.00	1051.74	1696.46	1042.05	1031.27	1696.46	1031.27
VANO 19	38.40	0.00	701.16	-946.54	0.0	-65.78	0.00	-112.02	-9.94	38.40	0.00	0.00	0.00	1051.74	1696.46	1042.05	1031.27	1696.46	1031.27
VANO 19	39.60	0.00	709.97	-974.88	0.0	-70.07	0.00	-119.66	-10.53	39.60	0.00	0.00	0.00	1064.96	1757.44	1128.13	1116.45	1757.44	1116.45
VANO 19	40.80	0.00	720.09	-1004.49	0.0	-74.35	0.00	-127.29	-11.13	40.80	0.00	0.00	0.00	1080.13	1820.33	1214.11	1201.52	1820.33	1201.52
VANO 19	42.00	0.00	731.50	-1035.37	0.0	-78.64	0.00	-134.92	-11.72	42.00	0.00	0.00	0.00	1097.25	1885.12	1299.97	1286.49	1885.12	1286.49
VANO 19	43.20	0.00	744.22	-1067.52	0.0	-82.92	0.00	-142.55	-12.31	43.20	0.00	0.00	0.00	1116.32	1951.81	1385.71	1371.33	1951.81	1371.33
VANO 19	43.20	0.00	744.22	-1067.52	0.0	-82.92	0.00	-142.55	-12.31	43.20	0.00	0.00	0.00	1116.32	1951.81	1385.71	1371.33	1951.81	1371.33
VANO 19	44.40	0.00	758.23	-1100.94	0.0	-87.20	0.00	-150.18	-12.91	44.40	0.00	0.00	0.00	1137.35	2020.41	1471.33	1456.05	2020.41	1456.05
VANO 19	45.60	0.00	773.54	-1135.63	0.0	-91.49	0.00	-157.82	-13.50	45.60	0.00	0.00	0.00	1160.32	2090.91	1556.83	1540.65	2090.91	1540.65
VANO 19	46.80	0.00	790.16	-1171.59	0.0	-95.77	0.00	-165.45	-14.10	46.80	0.00	0.00	0.00	1185.24	2163.31	1642.20	1625.12	2163.31	1625.12
VANO 20	0.00	0.00	1153.50	-788.91	50.5	0.00	103.29	-36.62	5.07	0.00	0.00	0.00	0.00	1968.64	1238.30	1715.72	1733.68	1968.64	1715.72
VANO 20	1.20	0.00	1116.38	-771.10	46.2	0.00	96.94	-36.64	4.47	1.20	0.00	0.00	0.00	1896.11	1211.62	1631.38	1648.44	1896.11	1631.38
VANO 20	2.40	0.00	1080.53	-754.60	41.9	0.00	91.41	-36.67	3.88	2.40	0.00	0.00	0.00	1826.73	1186.90	1546.90	1563.07	1826.73	1546.90
VANO 20	3.60	0.00	1045.96	-739.40	37.7	0.00	85.88	-36.69	3.29	3.60	0.00	0.00	0.00	1759.25	1164.14	1462.30	1477.57	1759.25	1462.30
VANO 20	4.80	0.00	1012.66	-725.51	33.4	0.00	80.35	-36.71	2.69	4.80	0.00	0.00	0.00	1693.69	1143.33	1377.57	1391.94	1693.69	1377.57
VANO 20	4.80	0.00	1012.66	-725.51	33.4	0.00	80.35	-36.71	2.69	4.80	0.00	0.00	0.00	1693.69	1143.33	1377.57	1391.94	1693.69	1377.57
VANO 20	6.00	0.00	980.63	-712.93	29.1	0.00	74.82	-36.73	2.10	6.00	0.00	0.00	0.00	1630.05	1124.49	1292.72	1306.19	1630.05	1292.72
VANO 20	7.20	0.00	949.88	-701.65	24.8	0.00	69.29	-36.75	1.50	7.20	0.00	0.00	0.00	1568.31	1107.60	1207.76	1220.32	1568.31	1207.76
VANO 20	8.40	0.00	920.41	-691.67	20.5	0.00	63.77	-36.77	0.91	8.40	0.00	0.00	0.00	1508.50	1092.67	1122.68	1134.35	1508.50	1122.68
VANO 20	9.60	0.00	892.20	-683.00	16.3	0.00	58.24	-36.80	0.32	9.60	0.00	0.00	0.00	1450.66	1079.70	1037.50	1048.26	1450.66	1037.50
VANO 20	9.60	0.00	892.20	-683.00	16.3	0.00	58.24	-36.80	0.32	9.60	0.00	0.00	0.00	1450.66	1079.70	1037.50	1048.26	1450.66	1037.50
VANO 20	10.80	0.00	865.28	-675.64	12.1	0.00	52.71	-36.82	-0.28	10.80	0.00	0.00	0.00	1395.15	1068.97	952.21	962.08	1395.15	952.21
VANO 20	12.00	0.00	839.63	-669.58	7.8	0.00	47.18	-36.84	-0.87	12.00	0.00	0.00	0.00	1342.02	1060.51	866.84	875.80	1342.02	866.84
VANO 20	13.20	0.00	815.25	-664.83	3.6	0.00	41.65	-36.86	-1.47	13.20	0.00	0.00	0.00	1290.81	1054.00	781.37	789.44	1290.81	781.37
VANO 20	14.40	0.00	792.15	-661.38	0.0	-0.99	36.12	-36.88	-2.06	14.40	0.00	0.00	0.00	1242.40	1050.95	695.83	702.99	1242.40	695.83
VANO 20	14.40	0.00	792.15	-661.38	0.0	-0.99	36.12	-36.88	-2.06	14.40	0.00	0.00	0.00	1242.40	1050.95	678.88	686.05	1242.40	678.88
VANO 20	15.60	0.00	770.32	-659.24	0.0	-5.27	30.59	-36.90	-2.65	15.60	0.00	0.00	0.00	1201.36	1054.79	593.27	599.53	1201.36	593.27
VANO 20	16.80	0.00	749.77	-658.41	0.0	-9.56	25.06	-36.93	-3.25	16.80	0.00	0.00	0.00	1162.24	1060.58	507.59	512.95	1162.24	507.59
VANO 20	18.00	0.00	730.49	-658.88	0.0	-13.84	19.53	-36.95	-3.84	18.00	0.00	0.00	0.00	1125.02	1068.34	421.85	426.32	1125.02	421.85
VANO 20	19.20	0.00	712.55	-660.71	0.0	-18.13	14.00	-36.97	-4.44	19.20	0.00	0.00	0.00	1089.83	1078.14	336.07	339.64	1089.83	336.07
VANO 20	19.20	0.00	712.55	-660.71	0.0	-18.13	14.00	-36.97	-4.44	19.20	0.00	0.00	0.00	1089.83	1078.14	336.07	339.64	1089.83	336.07
VANO 20	20.40	0.00	696.03	-663.94	0.0	-22.41	8.47	-36.99	-5.03	20.40	0.00	0.00	0.00	1056.74	1090.04	250.25	252.92	1090.04	252.92
VANO 20	21.60	0.00	680.91	-668.59	0.0	-26.69	2.94	-37.01	-5.62	21.60	0.00	0.00	0.00	1025.78	1104.07	164.41	166.18	1104.07	166.18
VANO 20	22.80	0.00	668.91	-676.36	0.0	-30.98	0.00	-41.47	-6.22	22.80	0.00	0.00	0.00	1003.37	1129.43	78.55	79.41	1129.43	79.41
VANO 20	24.00	0.00	660.27	-687.48	0.0	-35.26	0.00	-49.09	-6.81	24.00	0.00	0.00	0.00	990.40	1164.56	7.36	7.33	1164.56	7.33
VANO 20	24.00	0.00	660.27	-687.48	0.0	-35.26	0.00	-49.09	-6.81	24.00	0.00	0.00	0.00	990.40	1164.56	7.36	7.33	1164.56	7.33
VANO 20	25.20	0.00	653.03	-700.01	0.0	-39.55	0.00	-56.71	-7.41	25.20	0.00	0.00	0.00	979.55	1201.80	94.13	93.20	1201.80	93.20
VANO 20	26.40	0.00	647.20	-713.94	0.0	-43.83	0.00	-64.33	-8.00	26.40	0.00	0.00	0.00	970.81	1241.15	180.89	179.06	1241.15	179.06
VANO 20	27.60	0.00	642.79	-729.29	0.0	-48.11	0.00	-71.95	-8.59	27.60	0.00	0.00	0.00	964.18	1282.62	267.64	264.90	1282.62	264.90
VANO 20	28.80	0.00	639.78	-746.05	0.0	-52.40	0.00	-79.57	-9.19	28.80	0.00	0.00	0.00	959.67	1326.21	354.35	350.72	1326.21	350.72
VANO 20	28.80	0.00	639.78	-746.05	0.0	-52.40	0.00	-79.57	-9.19	28.80	0.00	0.00	0.00	959.67	1326.21	354.35	350.72	1326.21	350.72
VANO 20	30.00	0.00	638.19	-764.22	0.0	-56.68	0.00	-87.19	-9.78	30.00	0.00	0.00	0.00	957.28	1371.92	441.03	436.50	1371.92	436.50
VANO 20	31.20	0.00	637.95	-783.73	0.0	-60.97	0.00	-94.80	-10.38	31.20	0.00	0.00	0.00	956.93	1419.63	527.66	522.23	1419.63	522.23
VANO 20	32.40	0.00	639.02	-804.52	0.0	-65.25	0.00	-102.42	-10.97	32.40	0.00	0.00	0.00	958.53	1469.26	614.24	607.90	1469.26	607.90
VANO 20	33.60	0.00	641.39	-826.58	0.0	-69.53	0.00	-110.04	-11.56	33.60	0.00	0.00	0.00	962.08	1520.80	700.75	693.51	1520.80	693.51
VANO 20	33.60	0.00	641.39	-826.58	0.0	-69.53	0.00	-110.04	-11.56	33.60	0.00	0.00	0.00	962.08	1520.80	700.75	693.51	1520.80	693.51
VANO 20	34.80	0.00	645.07	-849.92	0.0	-73.82	0.00	-117.66	-12.16	34.80	0.00	0.00	0.00	967.60	1574.25	787.18	779.05	1574.25	779.05
VANO 20	36.00	0.00	650.05	-874.52	0.0	-78.10	0.00	-125.28	-12.75	36.00	0.00	0.00	0.00	975.07	1629.61	873.54	864.51	1629.61	864.51
VANO 20	37.20	0.00	656.34	-900.41	0.0	-82.39	0.00	-132.90	-13.35	37.20	0.00	0.00	0.00	984.50	1686.89	959.81	949.88	1686.89	949.88
VANO 20	38.40	0.00	663.93	-927.56	0.0	-86.67	0.00	-140.52	-13.94	38.40	0.00	0.00	0.00	995.89	1746.07	1045.99	1035.15	1746.07	1035.15
VANO 20	38.40	0.00	663.93	-927.56	0.0	-86.67	0.00	-140.52	-13.94	38.40	0.00	0.00	0.00	995.89	1746.07	1045.99	1035.15	1746.07	1035.15
VANO 20	39.60	0.00	672.82	-956.00	0.0	-90.95	0.00	-148.14	-14.53	39.60	0.00	0.00	0.00	1009.23	1807.17	1132.06	1120.33	1807.17	1120.33
VANO 20	40.80	0.00	683.02	-985.70	0.0	-95.24	0.00	-155.76	-15.13	40.80	0.00	0.00	0.00	1024.54	1870.17	1218.03	1205.40	1870.17	1205.40
VANO 20	42.00	0.00	694.53	-1016.68	0.0	-99.52	0.00	-163.38	-15.72	42.00	0.00	0.00	0.00	1041.80	1935.09	1303.89	1290.35	1935.09	1290.35
VANO 20	43.20	0.00	707.34	-1048.93	0.0	-103.81	0.00	-171.00	-16.32	43.20	0.00	0.00	0.00	1061.01	2001.92	1389.62	1375.19	2001.92	1375.19
VANO 20	43.20	0.00	707.34	-1048.93	0.0	-103.81	0.00	-171.00	-16.32	43.20	0.00	0.00	0.00	1061.01	2001.92	1389.62	1375.19	2001.92	1375.19
VANO 20	44.40	0.00	721.46	-1082.46	0.0	-108.09	0.00	-178.62	-16.91	44.40	0.00	0.00	0.00	1082.19	2070.66	1475.24	1459.91	2070.66	1459.91
VANO 20	45.60	0.00	736.88	-1117.26	0.0	-112.37	0.00	-186.23	-17.50	45.60	0.00	0.00	0.00	1105.32	2141.31	1560.73	1544.50	2141.31	1544.50
VANO 20	46.80	0.00	753.60	-1153.34	0.0	-116.66	0.00	-193.85	-18.10	46.80	0.00	0.00	0.00	1130.41	2213.87	1646.09	1628.96	2213.87	1628.96

RESUMEN DE ESFUERZOS TORSORES

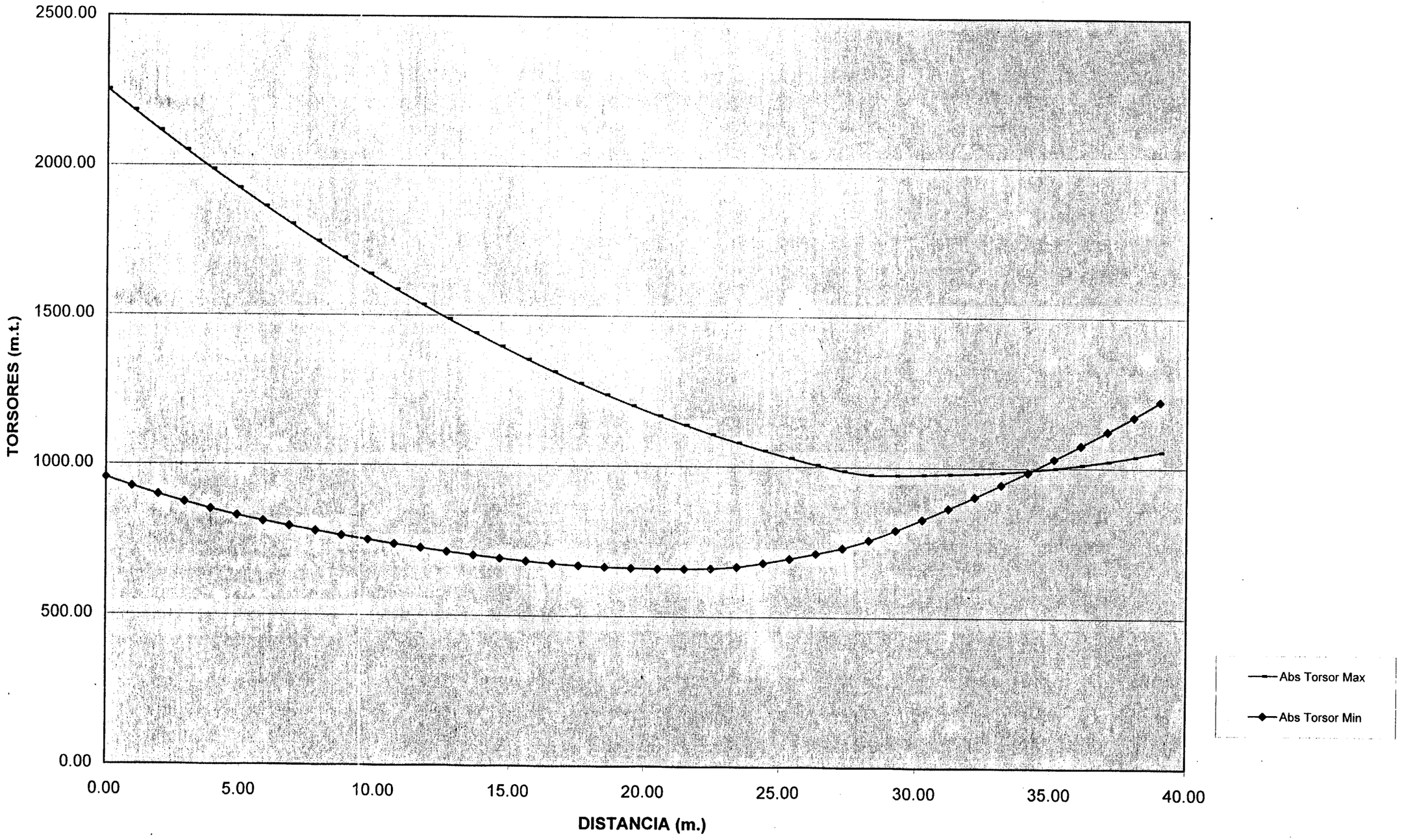
CARACTERISTICAS MECANICAS

	SECCIÓN CDV	SECCIÓN S.PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

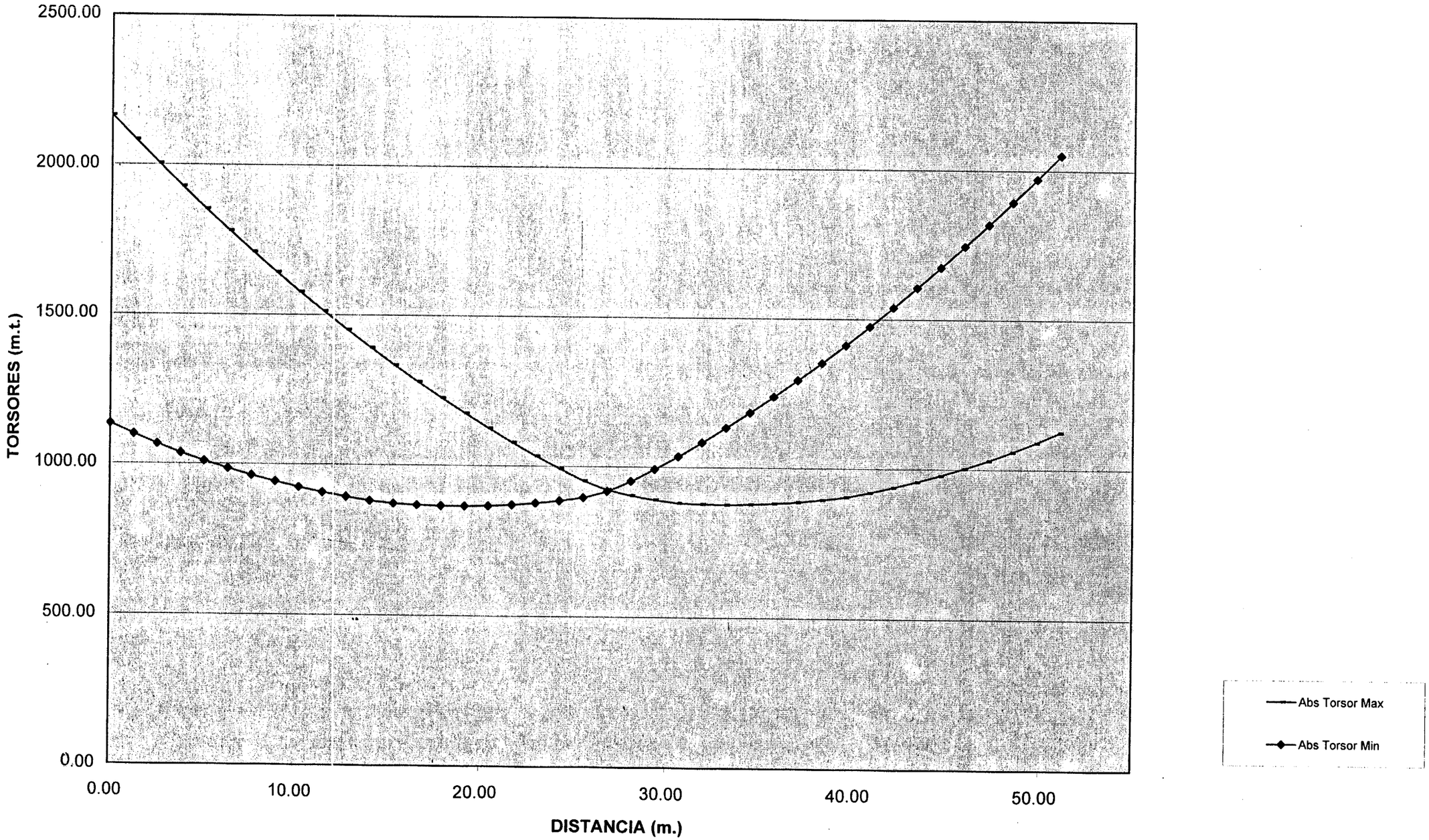
PRETENSADO	Exterior	Lanzamiento	Lanz. Adic
Nº TENDONES	6	14	Variables
Nº CORDONES	25	19	19
ROTURA TENDON (t)	28.5	28.5	28.5
% TESADO	80%	75%	75%
% PERDIDAS	16%	20%	20%
COEF. SEGURIDAD	1.0	1.0	1.0

										MULTIPLICADOR(Perdidas x Coef.Seg)							
		1	1	1	1	1	0.6	0.6	0.6	0.84	0.80	0.80	ESFUERZOS MAYORADOS				ESFUERZO DE CÁLCULO	
	CARGAS	POSITIVOS ENVOLVENTE	NEGATIVOS ENVOLVENTE	POSITIV	NEGATIV	POSITIV	NEGATIV	Sobrec		TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR PRETENSADO	TORSOR	TORSOR	TORSOR +	TORSOR -	TORSOR	CORTAN
VANO 21	0.00	0.00	1045.48	-758.19	0.00	-12.39	86.52	-91.26	-6.99	0.00	0.00	0.00	1698.01	1299.75	1721.99	1701.42	1698.01	1721.99
VANO 21	1.20	0.00	1008.56	-737.66	0.00	-16.67	80.99	-91.29	-7.58	1.20	0.00	0.00	1634.34	1276.01	1637.62	1616.49	1634.34	1637.62
VANO 21	2.40	0.00	972.95	-718.68	0.00	-20.96	75.47	-91.31	-8.18	2.40	0.00	0.00	1572.62	1254.60	1553.13	1531.48	1572.62	1553.13
VANO 21	3.60	0.00	938.64	-701.26	0.00	-25.24	69.94	-91.33	-8.77	3.60	0.00	0.00	1512.87	1235.52	1468.50	1446.42	1512.87	1468.50
VANO 21	4.80	0.00	905.64	-685.39	0.00	-29.53	64.41	-91.35	-9.36	4.80	0.00	0.00	1455.07	1218.77	1383.75	1361.36	1455.07	1383.75
VANO 21	4.80	0.00	905.64	-685.39	0.00	-29.53	64.41	-91.35	-9.36	4.80	0.00	0.00	1455.07	1218.77	1383.75	1361.36	1455.07	1383.75
VANO 21	6.00	0.00	873.95	-671.54	0.00	-33.81	58.88	-91.37	-9.96	6.00	0.00	0.00	1399.24	1205.04	1298.88	1276.31	1399.24	1298.88
VANO 21	7.20	0.00	843.56	-658.76	0.00	-38.09	53.35	-91.39	-10.55	7.20	0.00	0.00	1345.36	1192.93	1213.90	1191.32	1345.36	1213.90
VANO 21	8.40	0.00	814.48	-647.17	0.00	-42.38	47.82	-91.42	-11.15	8.40	0.00	0.00	1293.44	1182.59	1128.80	1106.41	1293.44	1128.80
VANO 21	9.60	0.00	786.70	-636.78	0.00	-46.66	42.29	-91.44	-11.74	9.60	0.00	0.00	1243.48	1174.02	1043.59	1021.60	1243.48	1043.59
VANO 21	9.60	0.00	786.70	-636.78	0.00	-46.66	42.29	-91.44	-11.74	9.60	0.00	0.00	1243.48	1174.02	1043.59	1021.60	1243.48	1043.59
VANO 21	10.80	0.00	760.23	-627.53	0.00	-50.95	36.76	-91.46	-12.33	10.80	0.00	0.00	1195.48	1167.23	958.29	936.94	1195.48	958.29
VANO 21	12.00	0.00	735.06	-619.48	0.00	-55.23	31.23	-91.48	-12.93	12.00	0.00	0.00	1149.43	1162.21	872.89	852.42	1162.21	852.42
VANO 21	13.20	0.00	711.20	-614.79	0.00	-59.51	25.70	-91.50	-13.52	13.20	0.00	0.00	1105.35	1162.23	787.41	795.61	1162.23	795.61
VANO 21	14.40	0.00	688.65	-611.92	0.00	-63.80	20.17	-91.52	-14.12	14.40	0.00	0.00	1063.22	1164.98	701.85	709.15	1164.98	709.15
VANO 21	14.40	0.00	688.65	-611.92	0.00	-63.80	20.17	-91.52	-14.12	14.40	0.00	0.00	1063.22	1164.98	684.91	692.21	1164.98	692.21
VANO 21	15.60	0.00	667.40	-610.39	0.00	-68.08	14.64	-91.55	-14.71	15.60	0.00	0.00	1023.06	1169.74	599.28	605.67	1169.74	605.67
VANO 21	16.80	0.00	647.45	-610.20	0.00	-72.37	9.11	-91.57	-15.30	16.80	0.00	0.00	984.85	1176.50	513.59	519.08	1176.50	519.08
VANO 21	18.00	0.00	628.82	-611.34	0.00	-76.65	3.58	-93.51	-15.90	18.00	0.00	0.00	948.60	1188.15	427.84	432.44	1188.15	432.44
VANO 21	19.20	0.00	612.84	-615.16	0.00	-80.93	0.00	-97.47	-16.49	19.20	0.00	0.00	919.26	1206.84	342.05	345.75	1206.84	345.75
VANO 21	19.20	0.00	612.84	-615.16	0.00	-80.93	0.00	-97.47	-16.49	19.20	0.00	0.00	919.26	1206.84	342.05	345.75	1206.84	345.75
VANO 21	20.40	0.00	600.66	-622.79	0.00	-85.22	0.00	-105.00	-17.09	20.40	0.00	0.00	900.99	1236.59	256.23	259.02	1236.59	259.02
VANO 21	21.60	0.00	589.92	-631.85	0.00	-89.50	0.00	-112.54	-17.68	21.60	0.00	0.00	884.89	1268.51	170.38	172.27	1268.51	172.27
VANO 21	22.80	0.00	580.63	-642.35	0.00	-93.79	0.00	-120.07	-18.27	22.80	0.00	0.00	870.94	1302.59	84.51	85.51	1302.59	85.51
VANO 21	24.00	0.00	572.77	-654.30	0.00	-98.07	0.00	-127.61	-18.87	24.00	0.00	0.00	859.15	1338.84	3.64	3.64	1338.84	3.64
VANO 21	24.00	0.00	572.77	-654.30	0.00	-98.07	0.00	-127.61	-18.87	24.00	0.00	0.00	859.15	1338.84	3.64	3.64	1338.84	3.64
VANO 21	25.20	0.00	566.35	-667.69	0.00	-102.35	0.00	-135.15	-19.46	25.20	0.00	0.00	849.52	1377.24	88.03	87.22	1377.24	87.22
VANO 21	26.40	0.00	561.37	-682.51	0.00	-106.64	0.00	-142.68	-20.06	26.40	0.00	0.00	842.05	1417.80	174.78	173.08	1417.80	173.08
VANO 21	27.60	0.00	557.83	-698.78	0.00	-110.92	0.00	-150.22	-20.65	27.60	0.00	0.00	836.74	1460.53	261.51	258.91	1460.53	258.91
VANO 21	28.80	0.00	555.73	-716.49	0.00	-115.21	0.00	-157.75	-21.24	28.80	0.00	0.00	833.59	1505.42	348.21	344.70	1505.42	344.70
VANO 21	28.80	0.00	555.73	-716.49	0.00	-115.21	0.00	-157.75	-21.24	28.80	0.00	0.00	833.59	1505.42	348.21	344.70	1505.42	344.70
VANO 21	30.00	0.00	555.07	-735.64	0.00	-119.49	0.00	-165.29	-21.84	30.00	0.00	0.00	832.60	1552.46	434.86	430.46	1552.46	430.46
VANO 21	31.20	0.00	555.79	-756.16	0.00	-123.77	0.00	-172.83	-22.43	31.20	0.00	0.00	833.69	1601.57	521.47	516.16	1601.57	516.16
VANO 21	32.40	0.00	557.65	-777.98	0.00	-128.06	0.00	-180.36	-23.03	32.40	0.00	0.00	836.77	1652.62	608.01	601.80	1652.62	601.80
VANO 21	33.60	0.00	561.24	-801.10	0.00	-132.34	0.00	-187.90	-23.62	33.60	0.00	0.00	841.86	1705.63	694.48	687.38	1705.63	687.38
VANO 21	33.60	0.00	561.24	-801.10	0.00	-132.34	0.00	-187.90	-23.62	33.60	0.00	0.00	841.86	1705.63	694.48	687.38	1705.63	687.38
VANO 21	34.80	0.00	565.96	-825.53	0.00	-136.63	0.00	-195.44	-24.21	34.80	0.00	0.00	848.94	1760.59	780.88	772.87	1760.59	772.87
VANO 21	36.00	0.00	572.01	-851.25	0.00	-140.91	0.00	-202.97	-24.81	36.00	0.00	0.00	858.01	1817.51	867.19	858.28	1817.51	858.28
VANO 21	37.20	0.00	579.39	-878.28	0.00	-145.19	0.00	-210.51	-25.40	37.20	0.00	0.00	869.09	1876.37	953.40	943.60	1876.37	943.60
VANO 21	38.40	0.00	588.11	-906.61	0.00	-149.48	0.00	-218.04	-26.00	38.40	0.00	0.00	882.16	1937.19	1039.52	1028.81	1937.19	1028.81
VANO 21	38.40	0.00	588.11	-906.61	0.00	-149.48	0.00	-218.04	-26.00	38.40	0.00	0.00	882.16	1937.19	1039.52	1028.81	1937.19	1028.81
VANO 21	39.60	0.00	598.15	-936.24	0.00	-153.76	0.00	-225.58	-26.59	39.60	0.00	0.00	897.23	1999.96	1125.53	1113.92	1999.96	1113.92
VANO 21	40.80	0.00	609.53	-967.17	0.00	-158.05	0.00	-233.12	-27.18	40.80	0.00	0.00	914.30	2064.68	1211.42	1198.92	2064.68	1198.92
VANO 21	42.00	0.00	622.24	-999.40	0.00	-162.33	0.00	-240.65	-27.78	42.00	0.00	0.00	933.36	2131.36	1297.20	1283.80	2131.36	1283.80
VANO 21	43.20	0.00	636.28	-1032.94	0.00	-166.61	0.00	-248.19	-28.37	43.20	0.00	0.00	954.43	2199.98	1382.86	1368.55	2199.98	1368.55
VANO 21	43.20	0.00	636.28	-1032.94	0.00	-166.61	0.00	-248.19	-28.37	43.20	0.00	0.00	954.43	2199.98	1382.86	1368.55	2199.98	1368.55
VANO 21	44.40	0.00	651.66	-1067.78	0.00	-170.90	0.00	-255.72	-28.97	44.40	0.00	0.00	977.49	2270.56	1468.38	1453.17	2270.56	1453.17
VANO 21	45.60	0.00	668.36	-1103.91	0.00	-175.18	0.00	-263.26	-29.56	45.60	0.00	0.00	1002.55	2343.09	1553.77	1537.67	2343.09	1537.67
VANO 21	46.80	0.00	688.40	-1141.35	0.00	-179.47	0.00	-270.80	-30.15	46.80	0.00	0.00	1029.60	2417.58	1639.02	1622.02	2417.58	1622.02
VANO 22	0.00	0.00	795.06	-658.33	0.00	-120.41	36.29	-161.26	-26.55	0.00	0.00	0.00	1247.03	1436.54	1759.33	1777.55	1436.54	1777.55
VANO 22	0.98	0.00	766.98	-646.16	0.00	-123.89	31.79	-161.28	-27.03	0.98	0.00	0.00	1198.16	1424.01	1690.54	1708.04	1424.01	1708.04
VANO 22	1.95	0.00	739.97	-635.09	0.00	-127.37	27.30	-161.29	-27.52	1.95	0.00	0.00	1150.91	1413.15	1621.65	1638.41	1413.15	1638.41
VANO 22	2.93	0.00	714.05	-625.14	0.00	-130.85	22.81	-161.31	-28.00	2.93	0.00	0.00	1105.28	1403.95	1552.64	1568.67	1403.95	1568.67
VANO 22	3.90	0.00	689.21	-616.29	0.00	-134.33	18.32	-161.35	-28.48	3.90	0.00	0.00	1061.28	1396.44	1483.52	1498.82	1396.44	1498.82
VANO 22	3.90	0.00	689.21	-616.29	0.00	-134.33	18.32	-161.35	-28.48	3.90	0.00	0.00	1061.28	1396.44	1483.52	1498.82	1396.44	1498.82
VANO 22	4.88	0.00	665.45	-608.55	0.00	-137.81	13.82	-162.94	-28.96	4.88	0.00	0.00	1018.90	1392.92	1414.28	1428.85	1392.92	1428.85
VANO 22	5.85	0.00	642.77	-601.92	0.00	-141.29	9.33	-164.53	-29.45	5.85	0.00	0.00	978.15	1391.06	1344.94	1358.78	1391.06	1358.78
VANO 22	6.83	0.00	621.18	-596.40	0.00	-144.77	4.84	-166.12	-29.93	6.83	0.00	0.00	939.02	1390.86	1275.48	1288.59	1390.86	1288.59
VANO 22	7.80	0.00	600.66	-591.99	0.00	-148.25	0.34	-167.70	-30.41	7.80	0.00	0.00	901.51	1392.33	1205.92	1218.29	1392.33	1218.29
VANO 22	7.80	0.00	600.66	-591.99	0.00	-148.25	0.34	-167.70	-30.41	7.80	0.00	0.00	901.51	1392.33	1205.92	1218.29	1392.33	1218.29
VANO 22	8.78	0.00	583.97	-591.42	0.00	-151.73	0.00	-173.44	-30.89	8.78	0.00	0.00	875.95	1405.78	1136.24	1147.89	1405.78	1147.89
VANO 22	9.75	0.00	568.62	-592.21	0.00	-155.22	0.00	-179.52	-31.38	9.75	0.00	0.00	852.93	1421.79	1066.49	1077.40	1421.79	1077.40
VANO 22	10.73	0.00	554.47	-594.20	0.00	-158.70	0.00	-185.60	-31.86	10.73	0.00	0.00	831.70	1439.61	996.74	1006.92	1439.61	1006.92
VANO 22	11.70	0.00	541.53	-597.39	0.00	-162.18	0.00	-191.69	-32.34	11.70	0.00	0.00	812.29	1459.23	926.98	936.43	1459.23	936.43
VANO 22	11.70	0.00	541.53	-597.39	0.00	-162.18	0.00	-191.69	-32.34	11.70	0.00	0.00	812.29	1459.23	926.98	936.43	1459.23	936.43
VANO 22	12.68	0.00	529.79	-601.79	0.00	-165.66	0.00	-197.77	-32.82	12.68	0.00	0.00	794.69	1480.65	857.22	865.94	1480.65	865.94
VANO 22	13.65	0.00	519.26	-607.40	0.00	-169.14	0.00	-203.85	-33.31	13.65	0.00	0.00	778.90	1503.89	787.47	795.46	1503.89	795.46
VANO 22	14.63	0.00	509.94	-614.21	0.00	-172.62	0.00	-209.93	-33.79	14.63	0.00	0.00	764.91	1528.92	717.72	724.97	1528.92	724.97
VANO 22	15.60	0.00	501.83	-622.22	0.00	-176.10	0.00	-216.01	-34.27	15.60	0.00	0.00	752.74	1555.77	647.97	654.50	1555.77	654.50
VANO 22	15.60	0.00	501.83	-622.22	0.00	-176.10	0.00	-216.01	-34.27	15.60	0.00	0.00	752.74	1555.77	647.97	654.50	1555.77	654.50
VANO 22	16.58	0.00	494.92	-631.44	0.00	-179.58	0.00	-222.09	-34.76	16.58	0.00	0.00	742.38	1584.42	578.24	584.03	1584.42	584.03
VANO 22	17.55	0.00	489.22	-641.86	0.00	-183.06	0.00	-228.18	-35.24	17.55	0.00	0.00	733.83	1614.88	508.51	513.57	1614.88	513.57
VANO 22	18.53	0.00	484.72	-653.49	0.00	-186.54	0.00	-234.26	-35.72	18.53	0.00	0.00	727.08	1647.15	438.79	443.12	1647.15	443.12
VANO 22	19.50	0.00	481.43	-666.32	0.00	-190.02	0.00	-240.34	-36.20	19.50	0.00	0.00	722.15	1681.22	369.09	372.69	1681.22	372.69
VANO 22	19.50	0.00	481.43	-666.32	0.00	-190.02	0.00	-240.34	-36.20	19.50	0.00	0.00	722.15	1681.22	369.09	372.69	1681.22	372.69
VANO 22	20.48	0.00	479.35	-680.35	0.00	-193.50	0.00	-246.42	-36.69	20.48	0.00	0.00	719.03	1717.09	299.40	302.27	1717.09	302.27
VANO 22	21.45	0.00	478.48	-695.59	0.00	-196.98	0.00	-252.50	-37.17	21.45	0.00	0.00	717.72	1754.78	229.73	231.87	1754.78	231.87
VANO 22	22.43	0.00	478.81	-712.03	0.00	-200.47	0.00	-258.58	-37.65	22.43	0.00	0.00	718.22	1794.27	160.08	161.49	1794.27	161.49
VANO 22	23.40	0.00	482.24	-729.68	0.00	-203.95	0.00	-264.66	-38.13	23.40	0.00	0.00	723.36	1835.57	88.67	91.13	1835.57	91.13
VANO 22	23.40	0.00	482.24	-729.68	0.00	-203.95	0.00	-264.66	-38.13	23.40	0.00	0.00	723.36	1835.57	71.73	74.19	1835.57	74.19
VANO 22	24.38	0.00	488.11	-748.53	0.00	-207.43	0.00	-270.75	-38.62	24.38	0.00	0.00	732.17	1878.67	14.17	14.17	1878.67	14.17
VANO 22	25.35	0.00	494.94	-768.59	0.00	-210.91	0.00	-276.83	-39.10	25.35	0.00	0.00	742.42	1923.58	63.72	65.66	1923.58	65.66
VANO 22	26.33	0.00	502.34	-789.85	0.00	-214.39	0.00	-282.91	-39.58	26.33	0.00	0.00	753.50	1970.30	132.19	135.20	1970.30	135.20
VANO 22	27.30	0.00	510.18	-812.31	0.00	-217.87	0.00	-288.99	-40.06	27.30	0.00	0.00	765.27	2018.82	200.93	204.71	2018.82	204.71
VANO 22	27.30	0.00	510.18	-812.31	0.00	-217.87	0.00	-288.99	-40.06	27.30	0.00	0.00	765.27	2018.82	200.93	204.71	2018.82	204.71
VANO 22	28.28	0.00	518.47	-835.98	0.00	-221.35	0.00	-295.07	-40.55	28.28	0.00	0.00	777.70	2069.15	269.94	274.19	2069.15	274.19
VANO 22	29.25	0.00	527.21	-860.85	0.00	-224.83	0.00	-301.15	-41.03	29.25	0.00	0.00	790.82	2121.29	339.21	343.63	2121.29	343.63
VANO 22	30.23	0.00	536.40	-886.93	0.00	-228.31	0.00	-307.23	-41.51	30.23	0.00	0.00	804.60	2175.22	408.74	413.02	2175.22	413.02
VANO 22	31.20	0.00	546.04	-914.13	0.00	-231.79	0.00	-313.32	-41.99	31.20	0.00	0.00	819.06	2230.85	476.51	482.37	2230.85	482.37
VANO 22	31.20	0.00	546.04	-914.13	0.00	-231.79	0.00	-313.32	-41.99	31.20	0.00	0.00	819.06	2230.85	476.51	482.37	2230.85	482.37
VANO 22	32.18	0.00	556.14	-942.42	0.00	-235.27	0.00	-319.40	-42.48	32.18	0.00	0.00	834.21	2288.11	548.54	551.68	2288.11	551.68
VANO 22	33.15	0.00	567.05	-971.80	0.00	-238.75	0.00	-325.48	-42.96	33.15	0.00	0.00	850.58	2347.00	618.80	620.93	2347.00	620.93
VANO 22	34.13	0.00	578.88	-1002.27	0.00	-242.23	0.00	-331.56	-43.44	34.13	0.00	0.00	868.31	2407.53	689.36	690.13	2407.53	690.13
VANO 22	35.10	0.00	592.48	-1033.83	0.00	-245.71	0.00	-337.64	-43.92	35.10	0.00	0.00	888.72	2469.70	759.54	759.28	2469.70	759.28
VANO 22	35.10	0.00	592.48	-1033.83	0.00	-245.71	0.00	-337.64	-43.92	35.10	0.00	0.00	888.72	2469.70	983.73	983.47	2469.70	983.47
VANO 22	36.08	0.00	608.46	-1066.48	0.00	-249.20	0.00	-343.72	-44.41	36.08	0.00	0.00	912.69	2533.50	1061.39	1052.55	2533.50	1052.55
VANO 22	37.05	0.00	626.30	-1100.22	0.00	-252.68	0.00	-349.81	-44.89	37.05	0.00	0.00	939.46	2598.94	1131.14	1121.58	2598.94	1121.58
VANO 22	38.03	0.00	645.36	-1135.13	0.00	-256.16	0.00	-355.89	-45.37	38.03	0.00	0.00	968.04	2666.13	1200.86	1190.57	2666.13	1190.57

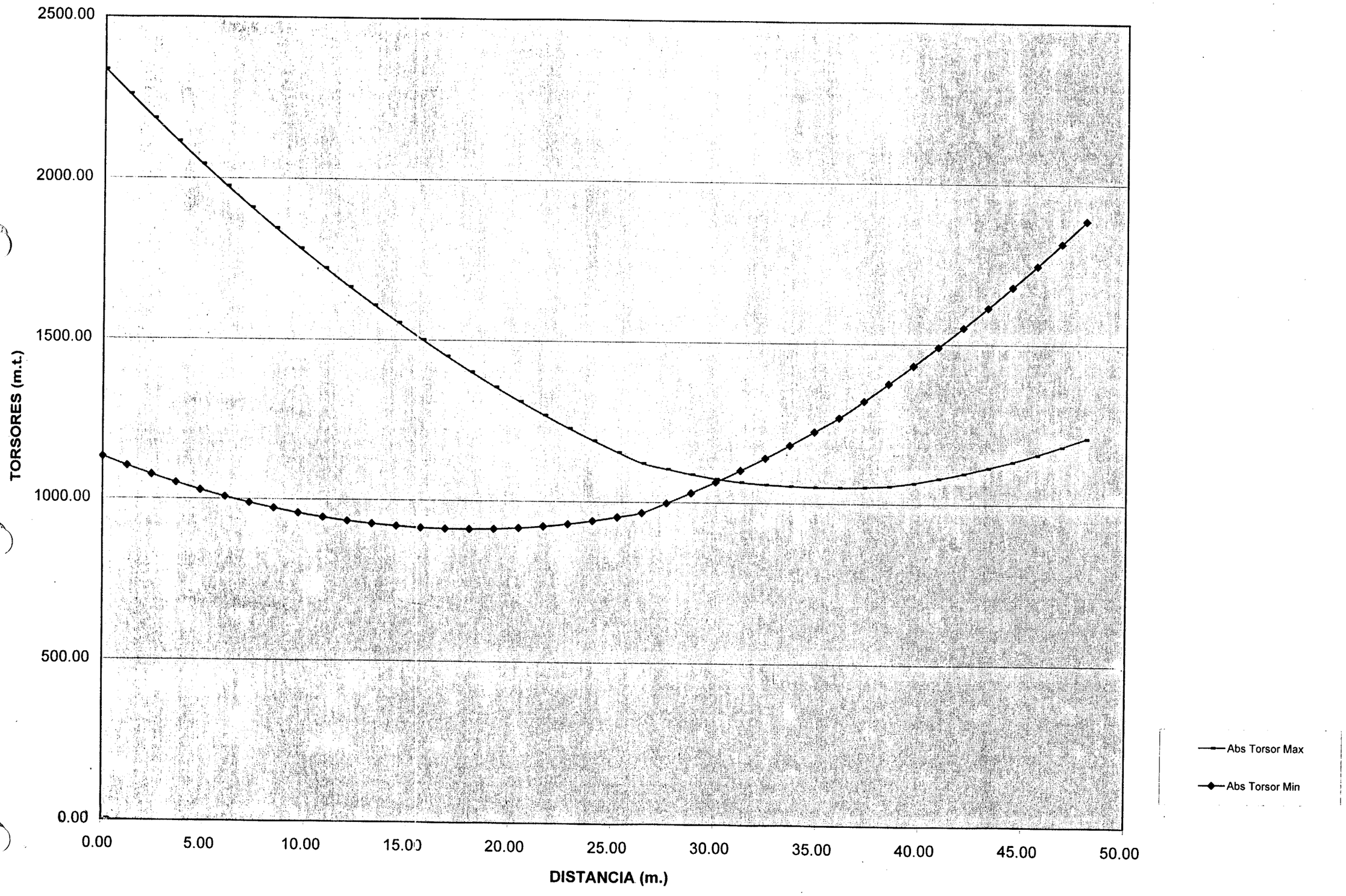
TORSORES MAYORADOS VANO 1



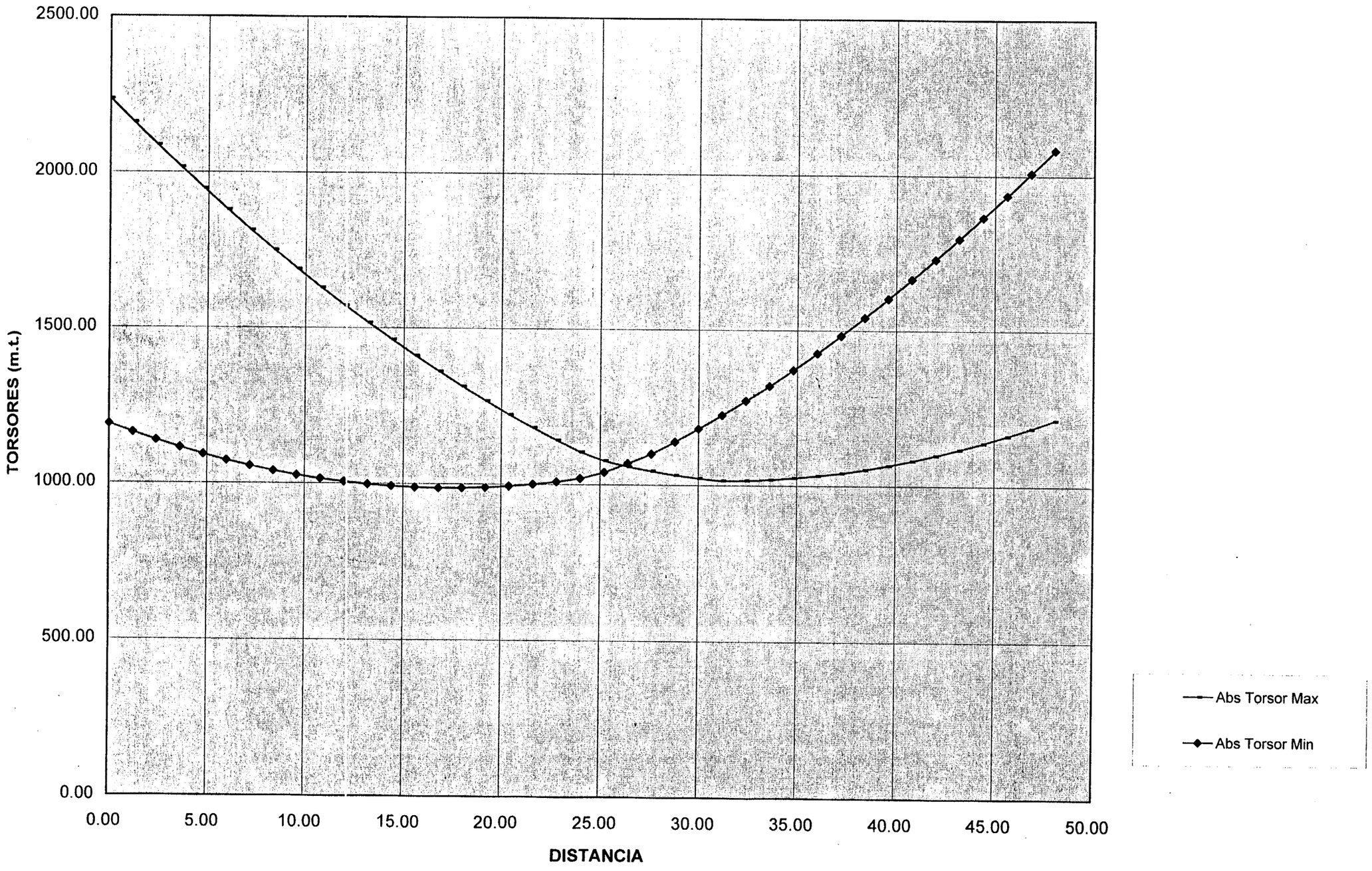
T0RSORES MAYORADOS VANO4



TORSORES MAYORADOS VANO 6



TORSORES MAYORADOS VANO14



2.5.3. Resumen de armado de la sección transversal

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC S PILA
I	20 008	24 9687
ys	1.495	1 754
yi	2 505	2 246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28 5	28 5	28.5
% TESADO	0 8	0 75	75%
% PERDIDA	0.16	0 2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	15.4	15.4
V 2-3	16.6	16.6
V 4-5	17.9	17.9
V 6-8	17.1	17.1
V 8-21	17.0	17.0
V 22	16.4	16.4

LOSA SUP JUNTO A ALMA

MAXIMO	C. EXT As	C. INT As
V 1	16.9	16.9
V 2-3	19.2	19.2
V 4-5	19.8	19.8
V 6-8	19.5	19.5
V 8-21	18.9	18.9
V 22	17.4	17.4

LOSA SUP EN CENTRO DE CAJON

MAXIMO	C. EXT As	C. INT As
V 1	9.0	10.5
V 2-3	10.4	10.5
V 4-5	11.1	11.1
V 6-8	10.9	10.9
V 8-21	11.1	11.1
V 22	10.0	10.5

LOSA INF JUNTO AL ALMA

MAXIMO	C. EXT As	C. INT As
V 1	22 8	22.8
V 2-3	25.5	25.5
V 4-5	26.4	26.4
V 6-8	25.8	25.8
V 8-21	25.0	25.0
V 22	23.2	23.2

LOSA INF EN CENTRO CAJÓN

MAXIMO	C. EXT As	C. INT As
V 1	16.2	16.2
V 2-3	18.3	18.3
V 4-5	19.0	19.0
V 6-8	18.6	18.6
V 8-21	18.1	18.1
V 22	16.6	16.6

VOLADIZOS ZONA EXTERIOR

MAXIMO	C. EXT As	C. INT As
V 1	7.8	7.8
V 2-3	8.4	8.4
V 4-5	8.8	8.8
V 6-8	8.5	8.5
V 8-21	8.3	8.3
V 22	7.8	7.8

VOLADIZOS JUNTO ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	18.8	18.7
V 2-3	20.2	20.2
V 4-8	21.1	21.1
V 6-8	20.3	20.3
V 8-21	20.0	20.0
V 22	18.8	18.6

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As
VANO 1	0.00	1 00	1536 07	865.68	2253 04	1061.72	F 10.15	F 15.07	F 16.83	13.20	F 9.04	F 10.50	17.27	17.27	F 14.77	12.67	5.40	5.40	F 18.77	12.96
VANO 1	0.98	2 00	1122 11	842 66	2183 96	992 87	F 10.15	F 15.07	F 16.83	11.83	F 9.04	F 10.50	F 14.77	14.46	F 14.77	F 11.83	F 5.18	3.95	F 18.77	9.47
VANO 1	1.98	3 00	1035 33	819 83	2116 53	923 74	F 10.15	F 15.07	F 16.83	11.18	F 9.04	F 10.50	F 14.77	13.63	F 14.77	F 11.83	F 5.18	3.64	F 18.77	8.74
VANO 1	2.93	4 00	949.57	797.20	2050 89	854 71	F 10.15	F 15.07	F 16.83	10.53	F 9.04	F 10.50	F 14.77	12.80	F 14.77	F 11.83	F 5.18	3.34	F 18.77	8.01
VANO 1	3.90	5.00	864 82	774 77	1986 92	785 62	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	11.97	F 14.77	F 11.83	F 5.18	3.04	F 18.77	7.30
VANO 1	3.90	6 00	864 82	774.77	1986.92	785 62	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	11.97	F 14.77	F 11.83	F 5.18	3.04	F 18.77	7.30
VANO 1	4.88	7 00	781 09	752.53	1924 64	716.47	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.75	F 18.77	6.59
VANO 1	5.85	8 00	698 39	730 48	1864 03	647 26	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.46	F 18.77	5.89
VANO 1	6.83	9.00	616.71	708.64	1805.11	578 00	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.17	F 18.77	5.20
VANO 1	7.80	10.00	536 05	686 98	1747 86	508.70	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.89	F 18.77	4.52
VANO 1	7.80	11 00	536.05	686.98	1747.86	508.70	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.89	F 18.77	4.52
VANO 1	8.78	12 00	456.41	665 53	1692 30	439.34	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.61	F 18.77	3.85
VANO 1	9.75	13 00	377 80	644 15	1638 47	369 94	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.33	F 18.77	3.19
VANO 1	10.73	14.00	320 20	406.97	1586.49	300 50	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.13	F 18.77	2.70
VANO 1	11.70	15 00	380 86	394.96	1536 36	231 02	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.34	F 18.77	3.21
VANO 1	11.70	16.00	397 80	394.96	1536.36	214.08	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.40	F 18.77	3.36
VANO 1	12.68	17 00	459.12	382 76	1488 09	144.57	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.62	F 18.77	3.87
VANO 1	13.65	18 00	522 90	446 83	1441.68	75 02	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.84	F 18.77	4.41
VANO 1	14.63	19 00	589 95	430 65	1397 12	5 44	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.08	F 18.77	4.98
VANO 1	15.60	20.00	659.46	414.23	1354.41	65 20	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.32	F 18.77	5.57
VANO 1	15.60	21.00	659.46	414 23	1354.41	65.20	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.32	F 18.77	5.57
VANO 1	16.58	22 00	361 92	397 57	1313.56	135.56	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.27	F 18.77	3.05
VANO 1	17.65	23.00	446.47	409.06	1274.57	205.94	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.57	F 18.77	3.77
VANO 1	18.53	24.00	381.57	402 28	1237.43	276.35	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.34	F 18.77	3.22
VANO 1	19.50	25 00	319.75	426 88	1202 15	346.77	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.12	F 18.77	2.70
VANO 1	19.50	26 00	319.75	426 88	1202.15	346.77	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.12	F 18.77	2.70
VANO 1	20.48	27 00	362 87	328 54	1168 72	417.20	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.28	F 18.77	3.06
VANO 1	21.45	28 00	438.44	310.68	1137.15	487.65	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.54	F 18.77	3.70
VANO 1	22.43	29.00	514 94	292.59	1107.43	558.11	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.81	F 18.77	4.35
VANO 1	23.40	30.00	592.37	282.16	1079.57	628.58	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.08	F 18.77	5.00
VANO 1	23.40	31.00	592.37	282 16	1079.57	628.58	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.08	F 18.77	5.00
VANO 1	24.38	32.00	670 70	273.91	1053 57	699.06	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.36	F 18.77	5.66
VANO 1	25.35	33.00	749 92	265.66	1029.42	769.54	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.64	F 18.77	6.33
VANO 1	26.33	34 00	830.00	257.41	1007.12	840.03	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.92	F 18.77	7.00
VANO 1	27.30	35.00	910 92	249.16	986.68	910.52	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	3.20	F 18.77	7.69
VANO 1	27.30	36.00	910.92	249.16	986.68	910.52	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	3.20	F 18.77	7.69
VANO 1	28.28	37.00	992.65	240.91	974.77	953.33	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	3.49	F 18.77	8.38
VANO 1	29.25	38 00	1075 18	232 86	973.55	1020.65	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	12.28	F 14.77	F 11.83	F 5.18	3.78	F 18.77	9.07
VANO 1	30.23	39 00	1158 47	224.41	975.27	1087.46	10.49	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	12.96	F 14.77	F 11.83	F 5.18	4.08	F 18.77	9.78
VANO 1	31.20	40.00	1242 36	216 16	977.69	1153.74	11.30	F 15.07	F 16.83	10.58	F 9.04	F 10.50	F 14.77	13.64	F 14.77	F 11.83	F 5.18	4.37	F 18.77	10.49
VANO 1	31.20	41 00	1242 36	216.16	977.69	1153.74	11.30	F 15.07	F 16.83	10.58	F 9.04	F 10.50	F 14.77	13.64	F 14.77	F 11.83	F 5.18	4.37	F 18.77	10.49
VANO 1	32.18	42.00	1326.76	207.91	980 83	1219.50	12.09	F 15.07	F 16.83	11.07	F 9.04	F 10.50	F 14.77	14.31	F 14.77	F 11.83	F 5.18	4.67	F 18.77	11.20
VANO 1	33.15	43.00	1411.64	199.66	985.29	1285.17	12.89	F 15.07	F 16.83	11.57	F 9.04	F 10.50	14.98	14.98	F 14.77	F 11.83	F 5.18	4.97	F 18.77	11.91
VANO 1	34.13	44.00	1496 98	191.41	991.19	1350 97	13.83	F 15.07	F 16.83	12.07	F 9.04	F 10.50	15.66	15.66	F 14.77	F 11.83	5.27	5.27	F 18.77	12.63
VANO 1	35.10	45.00	1582.75	183.16	1029.22	1457.58	15.06	F 15.07	F 16.83	12.95	F 9.04	F 10.50	16.81	16.81	F 14.77	12.44	5.57	5.57	F 18.77	13.36
VANO 1	35.10	46.00	1582.75	183 16	1029 22	1457.58	15.06	F 15.07	F 16.83	12.95	F 9.04	F 10.50	16.81	16.81	F 14.77	12.44	5.57	5.57	F 18.77	13.36
VANO 1	36.08	47.00	1668 91	174 91	1074.83	1526.70	15.15	15.15	F 16.83	13.55	F 9.04	F 10.50	17.60	17.60	F 14.77	13.03	5.87	5.87	F 18.77	14.09
VANO 1	37.05	48 00	1755.45	173.02	1122.11	1595.71	15.24	15.24	F 16.83	14.16	F 9.04	F 10.50	18.39	18.39	F 14.77	13.61	6.18	6.18	F 18.77	14.82
VANO 1	38.03	49 00	1842.32	186.35	1171.06	1664 60	15.34	15.34	F 16.83	14.78	F 9.04	F 10.50	19.19	19.19	F 14.77	14.20	6.48	6.48	F 18.77	15.55
VANO 2	0 00	1.00	2356.78	617.61	2013.43	1717.19	16.11	16.11	18.81	18.81	10.13	F 10.50	25.06	25.06	18.00	18.00	8.29	8.29	19.89	19.89
VANO 2	1.20	2.00	1841.70	590.63	1937.21	1632 96	15.96	15.96	F 16.83	16.10	9.68	F 10.50	20.43	20.43	15.53	15.53	6.48	6.48	F 18.77	15.54
VANO 2	2.40	3.00	1735.66	563.88	1862 99	1548.60	15.81	15.81	F 16.83	15.32	9.23	F 10.50	19.42	19.42	14.78	14.78	6.11	6.11	F 18.77	14.65
VANO 2	3.60	4.00	1630.21	537.37	1790.77	1464.10	15.66	15.66	F 16.83	14.54	F 9.04	F 10.50	18.42	18.42	F 14.77	14.04	5.73	5.73	F 18.77	13.76
VANO 2	4 80	5.00	1525.41	511.09	1720 55	1379.46	15.52	15.52	F 16.83	13.77	F 9.04	F 10.50	17.43	17.43	F 14.77	13.29	5.37	5.37	F 18.77	12.87
VANO 2	4.80	6.00	1525.41	511.09	1720.55	1379.46	15.52	15.52	F 16.83	13.77	F 9.04	F 10.50	17.43	17.43	F 14.77	13.29	5.37	5.37	F 18.77	12.87
VANO 2	6.00	7.00	1421 30	485.04	1652.33	1294.69	14.36	F 15.07	F 16.83	13.00	F 9.04	F 10.50	16.43	16.43	F 14.77	12.55	F 5.18	5.00	F 18.77	12.00
VANO 2	7.20	8.00	1317.95	459.23	1586.10	1209.80	13.20	F 15.07	F 16.83	12.23	F 9.04	F 10.50	15.44	15.44	F 14.77	F 11.83	F 5.18	4.64	F 18.77	11.12
VANO 2	8.40	9.00	1215.41	433.66	1521.88	1124.79	12.05	F 15.07	F 16.83	11.47	F 9.04	F 10.50	F 14.77	14.45	F 14.77	F 11.83	F 5.18	4.28	F 18.77	10.26
VANO 2	9.60	10.00	1113.72	408.32	1459 66	1039.67	10.90	F 15.07	F 16.83	10.71	F 9.04	F 10.50	F 14.77	13.46	F 14.77	F 11.83	F 5.18	3.92	F 18.77	9.40
VANO 2	9.60	11 00	1113.72	408.32	1459.66	1039.67	10.90	F 15.07	F 16.83	10.71	F 9.04	F 10.50	F 14.77	13.46	F 14.77	F 11.83	F 5.18	3.92	F 18.77	9.40
VANO 2	10.80	12.00	1012.94	383.22	1399.43	954.44	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	12.48	F 14.77	F 11.83	F 5.18	3.56	F 18.77	8.55
VANO 2	12.00	13.00	913.11	358.35	1341.21	869.10	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	3.21	F 18.77	7.71
VANO 2	13.20	14.00	814.27	333.72	1284 99	783.68	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.86	F 18.77	6.87
VANO 2	14.40	15.00	716.46	309.32	1230.76	698.16	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.52	F 18.77	6.05
VANO 2	14.40	16.00	699.51	309.32	1230.76	681.22	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.46	F 18.77	5.90
VANO 2	15.60	17.00	602.77	285.15	1178.54	595.63	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.12	F 18.77	5.09
VANO 2	16.80	18.00	507.13	261.23	1128 31	509.97	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.76	F 18.77	4.28
VANO 2	18.00	19.00	412.61	237.53	1080.09	424.25	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.45	F 18.77	3.48
VANO 2	19.20	20 00	455.14	82.80	1033.97	338.47	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.60	F 18.77	3.84
VANO 2	19.20	21 00	455.14	82.80	1033.97	338.47	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.60	F 18.77	3.84
VANO 2	20.40	22.00	535.31	72.81	990.07	252 66	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.88	F 18.77	4.52
VANO 2	21 60	23.00	617.24	62.83	948.37	166.81	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.17	F 18.77	5.21
VANO 2	22.80	24 00	700 51	52 85	908.90	80 94	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.46	F 18.77	5.91
VANO 2	24.00	25.00	376.61	47.91	871.63	6.27	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.32	F 18.77	3.18
VANO 2	24.00	26.00	376.61	47.91	871.63	6 27	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.32	F 18.77	3.18
VANO 2	25.20	27 00	691.35	100.07	836.58	93 05	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.43	F 18.77	5.83
VANO 2	26.40	28.00	607.79	78.15	814.43	179.84	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.14	F 18.77	5.13
VANO 2	27.60	29.00	525.56	56.53	845 33	263.89	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.85	F 18.77	4.44
VANO 2	28.80	30.00	446.03	67.00	880.25	349.73	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.57	F 18.77	3.76
VANO 2	28.80	31 00	446.03	67.00	880.25	349.73	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.57	F 18.77	3.76
VANO 2	30.00	32 00	420.06	120.77	922.28	435 54	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.46	F 18.77	3.55
VANO 2	31.20	33 00	514.30	143.84	969.12	521.30	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.81	F 18.77	4.34
VANO 2	32.40	34.00	609.68	167.69	1018.51	607.01	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.14	F 18.77	5.15
VANO 2	33.60	35.00	706.18	191.77	1069.92	692.65	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.48	F 18.77	5.96
VANO 2	33.60	36.00	706.18	191.77	1069.92	692.65	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.48	F 18.77	5.96
VANO 2	34.80	37.00	803.77	216.09	1123.32	778.23	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.83	F 18.77	6.78
VANO 2	36.00	38 00	902.40	240.65	1178.74	863.72	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	3.17	F 18.77	7.62
VANO 2	37.20	39.00	1002.05	265.44	1236.16	949.13	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	12.10	F 14.77	F 11.83	F 5.18	3.52	F 18.77	8.46
VANO 2	38.40	40.00	1102.66	290.46	1295.59	1034.45	10.51	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	13.08	F 14.77	F 11.83	F 5.18	3.88	F 18.77	9.31
VANO 2	38.40	41.00	1102.66	290 46	1295.59	1034.45	10.51	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	13.08	F 14.77	F 11.83	F 5.18	3.88	F 18.77	9.31
VANO 2	39.60	42 00	1204.20	315.73	1357.02	1119.66	11.66	F 15.07	F 16.83	11.09	F 9.04	F 10.50	F 14.77	14.06	F 14.77	F 11.83	F 5.18	4.24	F 18.77	10.16
VANO 2	40.80	43.00	1306.63	341.22	1420.46	1204.77	12.81	F 15.07	F 16.83	11.86	F 9.04	F 10.50	15.05	15.05	F 14.77	F 11.83	F 5.18	4.60	F 18.77	11.03
VANO 2	42.00	44.00	1409.89	366.95	1485.91	1289.78	13.96	F 15.07	F 16.83	12.62	F 9.04	F 10.50	16.04	16.04	F 14.77	12.18	F 5.18	4.96	F 18.77	11.90
VANO 2	43.20	45.00	1513.93	392.92	1553.36	1374.64	15.12	15.12	F 16.83	13.39	F 9.04	F 10.50	17.04	17.04	F 14.77	12.92	5.33	5.33	F 18.77	12.78
VANO 2	43.20	46.00	1513.93	392 92	1553.36	1374 64	15.12	15.12	F 16.83	13.39	F 9.04	F 10.50	17.04	17.04	F 14.77	12.92	5.33	5.33	F 18.77	12.78
VANO 2	44.40	47.00	1618.70	419.12	1622.82	1459.39	15.26	15.26	F 16.83	14.16	F 9.04	F 10.50	18.03	18.03	F 14.77	13.66	5.69	5.69	F 18.77	13.66
VANO 2	45.60	48 00	1724.14	445.56	1694.29	1544 02	15.41	15.41	F 16.83	14.94	F 9.04	F 10.50	19.03	19.03	F 14.77	14.41	6.06	6.06	F 18.77	14.55
VANO 2	46.80	49 00	1830.20	472.23	1767.76	1628.52	15.56	15.56	F 16.83	15.72	9.32	F 10.50	20.04	20.04	15.16	15.16	6.44	6.44	F 18.77	15.45

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC S PILA
I	20 008	24 9687
ys	1 495	1 754
yi	2 505	2 246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28 5	28.5
% TESADO	0 8	0 75	75%
% PERDIDA	0.16	0 2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	15.4	15.4
V 2-3	16.6	16.6
V 4-5	17.9	17.9
V 6-8	17.1	17.1
V 8-21	17.0	17.0
V 22	16.4	16.4

LOSA SUP JUNTO A ALMA

MAXIMO	C. EXT As	C. INT As
V 1	16.9	16.9
V 2-3	19.2	19.2
V 4-5	19.8	19.8
V 6-8	19.5	19.5
V 8-21	18.9	18.9
V 22	17.4	17.4

LOSA SUP EN CENTRO DE CAJON

MAXIMO	C. EXT As	C. INT As
V 1	9.0	10.5
V 2-3	10.4	10.5
V 4-5	11.1	11.1
V 6-8	10.9	10.9
V 8-21	11.1	11.1
V 22	10.0	10.5

LOSA INF JUNTO AL ALMA

MAXIMO	C. EXT As	C. INT As
V 1	22 8	22.8
V 2-3	25.5	25.5
V 4-5	26.4	26.4
V 6-8	25.8	25 8
V 8-21	25.0	25.0
V 22	23.2	23.2

LOSA INF EN CENTRO CAJÓN

MAXIMO	C. EXT As	C. INT As
V 1	16.2	16.2
V 2-3	18.3	18.3
V 4-5	19.0	19.0
V 6-8	18.6	18.6
V 8-21	18.1	18.1
V 22	16.6	16.6

VOLADIZOS ZONA EXTERIOR

MAXIMO	C. EXT As	C. INT As
V 1	7.8	7.8
V 2-3	8.4	8.4
V 4-5	8.8	8.8
V 6-8	8.5	8.5
V 8-21	8.3	8.3
V 22	7.8	7.8

VOLADIZOS JUNTO ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	18.8	18.7
V 2-3	20.2	20.2
V 4-5	21.1	21.1
V 6-8	20.3	20.3
V 8-21	20.0	20.0
V 22	18.8	18.6

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As
VANO 3	0.00	1 00	2355 00	466.74	1897.96	1696 24		15.62		15.62		18.49		18.49		9.82 F	10.50		24.73	24.73				
VANO 3	1.20	2.00	1839 90	440.21	1823.49	1611 91		15.47		15.47	F	16.83		15.71		9.37 F	10.50		19.98	19.98		17.68		17.68
VANO 3	2.40	3 00	1733 86	413 92	1751.02	1527 45		15.32		15.32	F	16.83		14.93	F	9.04 F	10.50		18.98	18.98		15.15		15.15
VANO 3	3.60	4 00	1628 42	387 86	1680.52	1442 85		15.18		15.18	F	16.83		14.16	F	9.04 F	10.50		17.98	17.98	F	14.77		14.41
VANO 3	4.80	5 00	1523 64	362.04	1612 01	1358.13		15.04	F	15.07	F	16.83		13.39	F	9.04 F	10.50		16.99	16.99	F	14.77		13.66
VANO 3	4.80	6 00	1523 64	362 04	1612.01	1358.13		15.04	F	15.07	F	16.83		13.39	F	9.04 F	10.50		16.99	16.99	F	14.77		12.92
VANO 3	6.00	7 00	1419 57	336 45	1545 49	1273 26		13.89	F	15.07	F	16.83		12.62	F	9.04 F	10.50		16.99	16.99	F	14.77		12.92
VANO 3	7.20	8 00	1316 27	311.09	1480 95	1188.31		12.73	F	15.07	F	16.83		11.86	F	9.04 F	10.50		16.00	16.00	F	14.77		12.18
VANO 3	8.40	9 00	1213.78	286 83	1419.26	1103 23		11 58	F	15.07	F	16.83		11 10	F	9.04 F	10.50		15.01	15.01	F	14.77	F	11 83
VANO 3	9.60	10.00	1112 16	264 36	1361 11	1018 04		10 44	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	14.02	F	14.77	F	11.83
VANO 3	9.60	11 00	1112 16	264.36	1361.11	1018 04		10 44	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	13.05	F	14.77	F	11.83
VANO 3	10.80	12 00	1011.44	242 12	1304.95	932.75	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	13.05	F	14.77	F	11.83
VANO 3	12 00	13 00	911 67	220 11	1250.77	847.37	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	12 07	F	14.77	F	11.83
VANO 3	13.20	14 00	812 90	198 34	1198.58	761.69	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	14.40	15 00	715.16	176.80	1148.37	676.33	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	14.40	16 00	698 21	176.80	1148.37	659 38	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	15.60	17 00	601 53	155 99	1100 64	573.75	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	16.80	18.00	505 95	135 80	1055 29	488.05	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	18.00	19.00	428 34	25 29	1011.93	402 29	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	19.20	20.00	507.44	58.74	974.31	316.48	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	19.20	21 00	507 44	58.74	974 31	316 48	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	20.40	22 00	588.12	79 95	941.67	230 63	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	21.60	23 00	670.11	101.44	924.41	146.30	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	22.80	24 00	753 43	123 22	943.42	59 50	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	24.00	25 00	430 06	145 28	978.19	32.06	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	24.00	26.00	430 06	145.28	978.19	32.06	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	25.20	27 00	691 04	83.74	1015.56	117 97	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	26.40	28 00	607.51	93 48	1055 14	203.88	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	27.60	29.00	525 32	103.23	1096.91	289 78	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	28 80	30 00	444 44	112.97	1140 88	375.65	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	28.80	31.00	444 44	112.97	1140 88	375.65	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	30.00	32.00	473 68	259 78	1187.05	461 48	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	31.20	33.00	567 95	283.28	1235.32	547.27	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	32.40	34 00	663 35	307 02	1285.57	633.01	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	33.60	35 00	759 86	330 99	1337 80	718 69	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	33.60	36 00	759.86	330.99	1337.80	718 69	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	34.80	37.00	857 46	355.19	1392.03	804.29	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	36.00	38 00	956 09	379.62	1448.24	889.82	F	10 15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 3	37.20	39 00	1055 74	404 29	1506.44	975 27		10.22	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	11.93	F	14.77	F	11.83
VANO 3	38.40	40 00	1156 36	429.19	1566 63	1060 62		11.37	F	15.07	F	16 83		11.08	F	9.04 F	10.50	F	14.77	12.91	F	14.77	F	11.83
VANO 3	38.40	41.00	1156.36	429.19	1566.63	1060.62		11.37	F	15.07	F	16.83		11.08	F	9.04 F	10.50	F	14.77	13.89	F	14.77	F	11.83
VANO 3	39.60	42.00	1257 90	454.32	1628.80	1145.87		12.52	F	15.07	F	16.83		11.84	F	9.04 F	10.50	F	14.77	13.89	F	14.77	F	11.83
VANO 3	40.80	43.00	1360.33	479 69	1692.96	1231 02		13.66	F	15.07	F	16.83		12.61	F	9.04 F	10.50		14.88	14.88	F	14.77	F	11.83
VANO 3	42.00	44.00	1463.60	505 28	1759.11	1316.05		14.83	F	15.07	F	16.83		13.37	F	9.04 F	10.50		15.87	15.87	F	14.77	F	12.18
VANO 3	43.20	45 00	1567 65	531.11	1827.24	1400 98		15.99		15.99	F	16.83		14.14	F	9.04 F	10.50		16.86	16.86	F	14.77	F	12.92
VANO 3	43.20	46 00	1567 65	531.11	1827.24	1400 98		15.99		15.99	F	16.83		14.14	F	9.04 F	10.50		17.86	17.86	F	14.77		13.66
VANO 3	44.40	47.00	1672 44	557.17	1897.37	1485.78		16.14		16.14	F	16.83		14.92		9.08 F	10.50		17.86	17.86	F	14.77		13.66
VANO 3	45.60	48.00	1777.91	583 47	1969.48	1570 45		16.26		16.26	F	16.83		15.69		9.52 F	10.50		18.86	18.86	F	14.77		14.41
VANO 3	46.80	49.00	1884 01	609.99	2043.57	1655 00		16.43		16.43	F	16.83		16.48		9.97 F	10.50		19.86	19.86		15.15		15.15
VANO 3	48.00	50.00	1994.20	636.75	2119.09	1764 41		16.60		16.60		19.10		19.10		10.43 F	10.50		20.86	20.86		15.91		15.91
VANO 4	0.00	1 00	2490 73	631 03	2164.97	1815.11		17.35		17.35		19.83		19.83		10.78	10.78		26.44	26.44		18.98		18.98
VANO 4	1 28	2.00	1995 10	602 55	2083 92	1725 71		17.18		17 18		17.08		17.08		10.30 F	10.50		21.66	21.66		16.49		16.49
VANO 4	2 55	3 00	1882.70	574.32	2005.01	1636.17		17.02		17.02	F	16.83		16.26		9.82 F	10.50		20.60	20.60		15.69		15.69
VANO 4	3.83	4.00	1770 91	546.34	1928.23	1546 49		16.87		16.87	F	16.83		15.43		9.35 F	10.50		19.53	19.53		14.90		14.90
VANO 4	5.10	5 00	1659.81	518.61	1853.60	1456.67		16.72		16.72	F	16.83		14.61	F	9.04 F	10.50		18.47	18.47	F	14.77		14.11
VANO 4	5.10	6 00	1659 81	518 61	1853 60	1456 67		16.72		16.72	F	16.83		14.61	F	9.04 F	10.50		18.47	18.47	F	14.77		14.11
VANO 4	6 38	7 00	1549 46	491 13	1781.10	1366.72		15 49		15.49	F	16.83		13.80	F	9.04 F	10.50		17.42	17.42	F	14.77		13.32
VANO 4	7.65	8 00	1439 90	463.93	1710 75	1276.63		14.26	F	15.07	F	16.83		12.98	F	9.04 F	10.50		16.37	16.37	F	14.77		12.54
VANO 4	8.93	9 00	1331.20	437.02	1642.60	1186.42		13.04	F	15.07	F	16.83		12.17	F	9.04 F	10.50		15.32	15.32	F	14.77	F	11.83
VANO 4	10.20	10 00	1223 40	410 37	1576.59	1096.09		11.82	F	15.07	F	16.83		11.36	F	9.04 F	10.50	F	14.77	14.27	F	14.77	F	11.83
VANO 4	10.20	11.00	1223 40	410.37	1576.59	1096.09		11.82	F	15.07	F	16.83		10.56	F	9.04 F	10.50	F	14.77	14.27	F	14.77	F	11.83
VANO 4	11.48	12.00	1116 56	383 97	1512.72	1005.65		10.60	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	13.23	F	14.77	F	11.83
VANO 4	12.75	13.00	1010.73	357 82	1450.98	915.10	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	12.19	F	14.77	F	11.83
VANO 4	14.03	14.00	905.94	331.92	1391.38	824 45	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	15.30	15.00	802.23	306.27	1333.92	733.71	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	15.30	16.00	785 29	306.27	1333.92	716 77	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	16.58	17.00	682.71	280.87	1278 59	625.95	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	17.85	18.00	581.29	255.72	1225.41	535.05	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	19.13	19.00	481.07	230.81	1174.36	444.08	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	20.40	20.00	455.81	79.65	1125.44	353.07	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	20.40	21 00	455.81	79.65	1125.44	353.07	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	21.68	22.00	541.45	69.27	1078.70	262 00	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	22.95	23.00	628.50	58.90	1034.30	170.90	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	24.23	24.00	716 97	48.52	992.26	79.78	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	25.50	25.00	424.70	60.28	952.58	28.92	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	25.50	26.00	424.70	60.28	952.58	28.92	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	26.78	27.00	675.10	86.26	923.34	121.02	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	28.05	28.00	586 33	63.24	952.41	210 95	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	29.33	29.00	498.98	41.39	992.68	302.06	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	30.60	30.00	423.44	133.99	1035.31	393.15	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	30.60	31.00	423.44	133.99	1035.31	393.15	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	31.88	32.00	522.17	158.28	1082.51	484.19	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	33.15	33.00	622.13	183.11	1132.12	575.18	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	34.43	34.00	723.29	208.18	1183.87	666.12	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	35.70	35.00	825.63	233.51	1237.75	756.98	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	35.70	36.00	825.63	233.51	1237.75	756.98	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	36.98	37.00	929.11	259.09	1293.77	847.76	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	38.25	38.00	1033.69	284.92	1351.93	938.46	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04 F	10.50	F	14.77	F 11.83	F	14.77	F	11.83
VANO 4	39.53	39.00	1139.33	310.99	1412.22	1029.06		10.68	F	15.07	F	16.83		10.53	F	9.04 F	10.50	F	14.77	12.22	F	14.77	F	11.83
VANO 4	40.80	40.00	1246.00	337.32	1474.64	1119.57		11.89	F	15.07	F	16.83		11.33	F	9.04 F	10.50	F	14.77	13.26	F	14.77	F	11.83
VANO 4	40.80	41.00	1246.00	337.32	1474.64	1119.57		11.89	F	15.07	F	16.83		11.33	F	9.04 F	10.50	F	14.77	14.30	F	14.77	F	11.83
VANO 4	42.08	42.00	1353.64	363.90	1539.20	1209.96		13.11	F	15.07	F	16.83		12.14	F	9.04 F	10.50	F	14.77	14.30	F	14.77	F	11.83
VANO 4	43.35	43.00	1462.20	390.73	1605.89	1300.23		14.33	F	15.07	F	16.83		12.94	F	9.04 F	10.50		15.34	15.34	F	14.77	F	11.83
VANO 4	44.63	44.00	1559.90	417.80	1674.72	1388.72		15.54		15.54	F	16.83		13.74	F	9.04 F	10.50		16.39	16.39	F	14.77		12.50
VANO 4	45.90	45.00	1664.60	445.13	1745.68	1478.75		16.76		16.76	F	16.83		14.56	F	9.04 F	10.50		17.43	17.43	F	14.77		13.26
VANO 4	45.90	46.00	1664.60	445.13	1745.68	1478.75		16.76		16.76	F	16.83		14.56	F	9.04 F	10.50		18.48	18.48	F	14.77		14.05
VANO 4	47.18	47.00	1775.63	472.71	1818.78	1568.65		16.91		16.91	F	16.83		15.38		9.21 F	10.50		18.48	18.48	F	14.77		14.05
VANO 4	48.45	48.00	1887.37	500.54	1894.02	1658.41		17.06		17.06	F	16.83		16.20		9.68 F	10.50		19.54	19.54		14.84		14.84
VANO 4	49.73	49.00	1999.76	528.62	1971.38	1748.03		17.22		17.22		17.02		17.02		10.15 F	10.50		20.59	20.59		15.63		15.63
																			21.66	21.66		16.42		16.42
																						7.03	F	18.77	16.88

ARMDO DE SECCION TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic Variables
Nº TENDON	6	14	
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

MAXIMO	ARMADO DE ALMAS C. EXT As	ARMADO DE ALMAS C. INT As	LOSA SUP JUNTO A ALMA C. EXT As	LOSA SUP JUNTO A ALMA C. INT As	LOSA SUP EN CENTRO DE CAJON C. EXT As	LOSA SUP EN CENTRO DE CAJON C. INT As	LOSA INF JUNTO AL ALMA C. EXT As	LOSA INF JUNTO AL ALMA C. INT As	LOSA INF EN CENTRO CAJÓN C. EXT As	LOSA INF EN CENTRO CAJÓN C. INT As	VOLADIZOS ZONA EXTERIOR C. EXT As	VOLADIZOS ZONA EXTERIOR C. INT As	VOLADIZOS JUNTO ALMAS C. EXT As	VOLADIZOS JUNTO ALMAS C. INT As
V 1	15.4	15.4	16.9	16.9	9.0	10.5	22.8	22.8	16.2	16.2	7.8	7.8	18.8	18.7
V 2-3	16.6	16.6	19.2	19.2	10.4	10.5	25.5	25.5	18.3	18.3	8.4	8.4	20.2	20.2
V 4-5	17.9	17.9	19.8	19.8	11.1	11.1	26.4	26.4	19.0	19.0	8.6	8.6	21.1	21.1
V 6-8	17.1	17.1	19.5	19.5	10.9	10.9	25.8	25.8	18.6	18.6	8.5	8.5	20.3	20.3
V 8-21	17.0	17.0	18.9	18.9	11.1	11.1	25.0	25.0	18.1	18.1	8.3	8.3	20.0	20.0
V 22	16.4	16.4	17.4	17.4	10.0	10.5	23.2	23.2	16.6	16.6	7.8	7.8	18.8	18.6

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	ARMADO DE ALMAS	C. EXT As		C. INT As	LOSA SUP JUNTO A ALMA	C. EXT As		C. INT As	LOSA SUP EN CENTRO DE CAJON	C. EXT As		C. INT As	LOSA INF JUNTO AL ALMA	C. EXT As		C. INT As	LOSA INF EN CENTRO CAJÓN	C. EXT As		C. INT As	VOLADIZOS ZONA EXTERIOR	C. EXT As		C. INT As	VOLADIZOS JUNTO ALMAS	C. EXT As		C. INT As
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]
VANO 5	0.00	1.00	2471.64	701.27	2252.71	1844.60		17.88		17.88		19.83		19.83		11.06		11.06		26.39		26.39		18.98		18.98		8.69		8.69		20.86		20.86
VANO 5	1.28	2.00	1976.01	672.69	2172.25	1755.13		17.72		17.72		17.48		17.48		10.58		10.58		22.14		22.14		16.88		16.88		6.95		6.95	F	18.77		16.68
VANO 5	2.55	3.00	1863.62	644.35	2093.91	1665.51		17.56		17.56	F	16.83		16.66		10.11	F	10.50		21.07		21.07		16.08		16.08		6.56		6.56	F	18.77		15.73
VANO 5	3.83	4.00	1762.93	616.27	2017.69	1575.76		17.40		17.40	F	16.83		15.83		9.64	F	10.50		20.01		20.01		15.29		15.29		6.20		6.20	F	18.77		14.88
VANO 5	5.10	5.00	1665.21	588.45	1943.60	1485.86		17.25		17.25	F	16.83		15.01		9.17	F	10.50		18.95		18.95	F	14.77		14.50		5.86		5.86	F	18.77		14.05
VANO 5	5.10	6.00	1665.21	588.45	1943.60	1485.86		17.25		17.25	F	16.83		15.01		9.17	F	10.50		18.95		18.95	F	14.77		14.50		5.86		5.86	F	18.77		14.05
VANO 5	6.38	7.00	1568.26	560.93	1871.69	1395.84		16.02		16.02	F	16.83		14.20	F	9.04	F	10.50		17.90		17.90	F	14.77		13.72		5.52		5.52	F	18.77		13.24
VANO 5	7.65	8.00	1470.56	533.67	1801.90	1307.36		14.82	F	15.07	F	16.83		13.40	F	9.04	F	10.50		16.86		16.86	F	14.77		12.95	F	5.18		5.17	F	18.77		12.41
VANO 5	8.93	9.00	1361.99	506.65	1734.23	1217.08		13.59	F	15.07	F	16.83		12.59	F	9.04	F	10.50		15.81		15.81	F	14.77		12.17	F	5.18		4.79	F	18.77		11.49
VANO 5	10.20	10.00	1254.35	479.88	1668.67	1126.70		12.37	F	15.07	F	16.83		11.78	F	9.04	F	10.50	F	14.77		14.77	F	14.77	F	11.83	F	5.18		4.41	F	18.77		10.59
VANO 5	10.20	11.00	1254.35	479.88	1668.67	1126.70		12.37	F	15.07	F	16.83		11.78	F	9.04	F	10.50	F	14.77		14.77	F	14.77	F	11.83	F	5.18		4.41	F	18.77		10.59
VANO 5	11.48	12.00	1147.68	452.96	1604.83	1036.20		11.15	F	15.07	F	16.83		10.98	F	9.04	F	10.50	F	14.77		13.72	F	14.77	F	11.83	F	5.18		4.04	F	18.77		9.69
VANO 5	12.75	13.00	1042.03	426.60	1543.44	945.60	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.68	F	14.77	F	11.83	F	5.18		3.67	F	18.77		8.79
VANO 5	14.03	14.00	937.44	400.50	1484.16	854.91	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		3.30	F	18.77		7.91
VANO 5	15.30	15.00	833.95	374.65	1427.00	764.13	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.93	F	18.77		7.04
VANO 5	15.30	16.00	817.01	374.65	1427.00	747.19	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.87	F	18.77		6.90
VANO 5	16.58	17.00	714.66	349.04	1371.95	656.33	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.51	F	18.77		6.03
VANO 5	17.85	18.00	613.48	323.69	1319.03	565.40	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.16	F	18.77		5.18
VANO 5	19.13	19.00	513.51	298.58	1268.22	474.41	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.81	F	18.77		4.33
VANO 5	20.40	20.00	461.27	142.55	1219.53	383.37	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.62	F	18.77		3.89
VANO 5	20.40	21.00	461.27	142.55	1219.53	383.37	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.62	F	18.77		3.89
VANO 5	21.68	22.00	533.87	138.73	1179.82	292.29	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.88	F	18.77		4.51
VANO 5	22.95	23.00	607.89	134.90	1142.43	201.18	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.14	F	18.77		5.13
VANO 5	24.23	24.00	683.32	131.07	1107.38	110.05	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.40	F	18.77		5.77
VANO 5	25.50	25.00	415.92	203.67	1074.68	18.91	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.46	F	18.77		3.51
VANO 5	25.50	26.00	415.92	153.08	1024.10	18.91	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.46	F	18.77		3.51
VANO 5	26.78	27.00	720.02	129.46	988.33	74.59	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.53	F	18.77		6.08
VANO 5	28.05	28.00	644.84	106.14	975.22	165.01	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.27	F	18.77		5.44
VANO 5	29.33	29.00	571.06	83.13	1008.40	256.11	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.01	F	18.77		4.82
VANO 5	30.60	30.00	498.70	60.41	1043.90	347.17	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.75	F	18.77		4.21
VANO 5	30.60	31.00	498.70	60.41	1043.90	347.17	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.75	F	18.77		4.21
VANO 5	31.88	32.00	474.33	146.82	1088.38	438.19	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.67	F	18.77		4.00
VANO 5	33.15	33.00	574.53	168.05	1134.99	529.15	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.02	F	18.77		4.85
VANO 5	34.43	34.00	675.91	189.60	1183.75	620.04	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.38	F	18.77		5.70
VANO 5	35.70	35.00	778.46	212.27	1235.22	710.87	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.74	F	18.77		6.57
VANO 5	35.70	36.00	778.46	212.27	1235.22	710.87	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.74	F	18.77		6.57
VANO 5	36.98	37.00	882.13	235.19	1288.81	801.60	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		3.10	F	18.77		7.44
VANO 5	38.25	38.00	986.88	258.36	1344.52	892.25	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		3.47	F	18.77		8.33
VANO 5	39.53	39.00	1092.69	282.02	1402.58	982.80	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.77	F	14.77	F	11.83	F	5.18		3.84	F	18.77		9.22
VANO 5	40.80	40.00	1199.49	306.98	1463.83	1073.24		11.31	F	15.07	F	16.83		10.97	F	9.04	F	10.50	F	14.77		13.81	F	14.77	F	11.83	F	5.18		4.22	F	18.77		10.12
VANO 5	40.80	41.00	1199.49	306.98	1463.83	1073.24		11.31	F	15.07	F	16.83		10.97	F	9.04	F	10.50	F	14.77		13.81	F	14.77	F	11.83	F	5.18		4.22	F	18.77		10.12
VANO 5	42.08	42.00	1307.25	332.19	1527.19	1163.57		12.53	F	15.07	F	16.83		11.77	F	9.04	F	10.50		14.85		14.85	F	14.77	F	11.83	F	5.18		4.60	F	18.77		11.03
VANO 5	43.35	43.00	1415.92	359.16	1594.18	1253.78		13.75	F	15.07	F	16.83		12.57	F	9.04	F	10.50		15.90		15.90	F	14.77		12.14	F	5.18		4.98	F	18.77		11.95
VANO 5	44.63	44.00	1525.44	386.37	1663.29	1343.87		14.97	F	15.07	F	16.83		13.39	F	9.04	F	10.50		16.95		16.95	F	14.77		12.92		5.37		5.37	F	18.77		12.87
VANO 5	45.90	45.00	1635.77	413.84	1734.52	1433.83		16.20		16.20	F	16.83		14.20	F	9.04	F	10.50		18.00		18.00	F	14.77		13.71		5.75		5.75	F	18.77		13.81
VANO 5	45.90	46.00	1635.77	413.84	1734.52	1433.83		16.20		16.20	F	16.83		14.20	F	9.04	F	10.50		18.00		18.00	F	14.77		13.71		5.75		5.75	F	18.77		13.81
VANO 5	47.18	47.00	1746.83	441.55	1807.87	1523.65		16.35		16.35	F	16.83		15.02	F	9.04	F	10.50		19.06		19.06	F	14.77		14.49		6.14		6.14	F	18.77		14.74
VANO 5	48.45	48.00	1858.59	469.51	1883.34	1613.33		16.50		16.50	F	16.83		15.84		9.50	F	10.50		20.12		20.12		15.28		15.28		6.54		6.54	F	18.77		15.69
VANO 5	49.73	49.00	1970.96	497.72	1960.93	1702.88		16.66		16.66	F	16.83		16.66		9.97	F	10.50		21.18		21.18		16.08		16.08		6.93		6.93	F	18.77		16.63
VANO 6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1792.27		16.82		16.82		19.44		19.44		10.45	F	10.50		25.96		25.96		18.69		18.69		9.06		9.06		20.82		20.82
VANO 6	0.00	1.00	2406.83	757.03	2337.01	1742.10		17.06		17.06		19.46		19.46		10.87		10.87		25.85		25.85		18.64		18.64		8.47		8.47		20.31		20.31
VANO 6	1.20	2.00	1891.68	730.03	2261.00	1657.69		16.91		16.91		16.94		16.94		10.42	F	10.50		21.33		21.33		16.37		16.37		6.65		6.65	F	18.77		15.97
VANO 6	2.40	3.00	1785.62	703.26	2186.94	1573.15		16.76		16.76	F	16.83		16.16		9.97	F	10.50		20.33		20.33		15.61		15.61		6.28		6.28	F	18.77		15.07
VANO 6	3.60	4.00	1680.19	676.72	2114.84	1488.48		16.61		16.61	F	16.83		15.38		9.53	F	10.50		19.33		19.33		14.87		14.87		5.91		5.91	F	18.77		14.18
VANO 6	4.80	5.00	1575.43	650.41	2044.70	1403.69		16.47		16.47	F	16.83		14.61		9.09	F	10.50		18.33		18.33	F	14.77		14.12		5.54		5.54	F	18.77		13.30
VANO 6	4.80	6.00	1575.43	650.41	2044.70	1403.69		16.47		16.47	F	16.83		14.61		9.09	F	10.50		18.33		18.33	F	14.77		14.12		5.54		5.54	F	18.77		13.30
VANO 6	6.00	7.00	1471.41	624.33	1976.50	1318.78		15.31		15.31	F	16.83		13.83	F	9.04	F	10.50		17.33		17.33	F	14.77		13.38		5.18		5.18	F	18.77		12.42
VANO 6	7.20	8.00	1368.18	598.47	1910.27	1233.75		14.15	F	15.07	F	16.83		13.07	F	9.04	F	10.50		16.34		16.34	F	14.77		12.64	F	5.18		4.81	F	18.77		11.55
VANO 6	8.40	9.00	1265.78	572.85	1845.99	1148.61		13.00	F	15.07	F	16.83		12.30	F	9.04	F	10.50		15.35		15.35	F	14.77		11.91	F	5.18		4.45	F	18.77		10.68
VANO 6	9.60	10.00	1164.26	547.45	1783.66	1063.36		11.84	F	15.07	F	16.83		11.54	F	9.04	F	10.50	F	14.77		14.36	F	14.77	F	11.83	F	5.18		4.10	F	18.77		9.83
VANO 6	9.60	11.00	1164.26	547.45	1783.66	1063.36		11.84	F	15.07	F	16.83		11.54	F	9.04	F	10.50	F	14.77		14.36	F	14.77	F	11.83	F	5.18		4.10	F	18.77		9.83
VANO 6	10.80	12.00	1063.67	522.29	1723.29	978.02		10.69	F	15.07	F	16.83		10.78	F	9.04	F	10.50	F	14.77		13.38	F	14.77	F	11.83	F	5.18		3.74	F	18.77		8.98
VANO 6	12.00	13.00	964.04	497.35	1664.87	892.58	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.39	F	14.77	F	11.83	F	5.18		3.39	F	18.77		8.14
VANO 6	13.20	14.00	865.42	472.64	1608.41	807.06	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		3.04	F	18.77		7.30
VANO 6	14.40	15.00	767.84	448.16	1553.90	721.46	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.70	F	18.77		6.48
VANO 6	14.40	16.00	750.89	448.16	1553.90	704.52	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.64	F	18.77		6.34
VANO 6	15.60	17.00	654.39	423.91	1501.35	618.85	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.30	F	18.77		5.52
VANO 6	16.80	18.00	558.99	399.88	1450.76	533.12	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.97	F	18.77		4.72
VANO 6	18.00	19.00	464.74	376.09	1402.11	447.34	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.63	F	18.77		3.92
VANO 6	19.20	20.00	477.66	226.51	1355.53	361.51	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.68	F	18.77		4.03
VANO 6	19.20	21.00	477.66	226.51	1355.53	361.51	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.68	F	18.77		4.03
VANO 6	20.40	22.00	558.53	207.33	1311.11	275.65	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.96	F	18.77		4.71
VANO 6	21.60	23.00	640.71	197.25	1268.86	189.76	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.25	F	18.77		5.41
VANO 6	22.80	24.00	724.21	187.17	1228.77	103.86	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.55	F	18.77		6.11
VANO 6	24.00	25.00	421.04	260.02	1190.84	17.95	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.48	F	18.77		3.55
VANO 6	24.00	26.00	421.04	260.02	1190.84	17.95	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.48	F	18.77		3.55
VANO 6	25.20	27.00	744.38	237.62	1155.08	85.59	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.62	F	18.77		6.28
VANO 6	26.40	28.00	661.03	215.51	1121.48	172.39	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.33	F	18.77		5.58
VANO 6	27.60	29.00	579.01	193.68	1103.68	259.16	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.04	F	18.77		4.89
VANO 6	28.80	30.00	498.29	172.12	1088.18	345.91	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.75	F	18.77		4.21
VANO 6	28.80	31.00	498.29	172.12	1088.18	345.91	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.75	F	18.77		4.21
VANO 6	30.00	32.00	444.49	126.71	1074.84	432.61	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.56	F	18.77		3.75
VANO 6	31.20	33.00	538.90	116.63	1101.40	514.12	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.90	F	18.77		4.55
VANO 6	32.40	34.00	634.44	128.92	1140.13	599.82	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.23	F	18.77		5.35
VANO 6	33.60	35.00	731.08	142.87	1180.82	685.45	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.57	F	18.77		6.17
VANO 6	33.60	36.00	731.08	142.87	1180.82	685.45	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.57	F	18.77		6.17
VANO 6	34.80	37.00	828.77	157.04	1223.46	771.01	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.92	F	18.77		6.99
VANO 6	36.00	38.00	927.50	171.45	1268.06	856.49	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		3.26	F	18.77		7.83
VANO 6	37.20	39.00	1027.21	191.90	1320.43	941.88	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.19	F	14.77	F	11.83	F	5.18		3.61	F	18.77		8.67
VANO 6	38.40	40.00	1127.88	213.19	1375.36	1027.17		10.58	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		13.17	F	14.77	F	11.83	F	5.18		3.97	F	18.77		9.52
VANO 6	38.40	41.00	1127.88	213.19	1375.36	1027.17		10.58	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		13.17	F	14.77	F	11.83	F	5.18		3.97	F	18.77		9.52
VANO 6	39.60	42.00	1229.45	234.71	1432.24	1112.36		11.72	F	15.07	F	16.83		11.19	F	9.04	F	10.50	F	14.77		14.14	F	14.77	F	11.83	F	5.18		4.32	F	18.77		10.38
VANO 6	40.80	43.00	1331.89	256.45	1491.08	1197.44		12.86	F	15.07	F	16.83		11.95	F	9.04	F	10.50		15.12		15.12	F	14.77	F	11.83	F	5.18		4.69	F	18.77		11.24
VANO 6	42.00	44.00	1435.15	278.43	1551.87	1282.41		14.01	F	15.07	F	16.83		12.70	F	9.04	F	10.50		16.10		16.10	F	14.77		12.26	F	5.18		5.05	F	18.77		12.11
VANO 6	43.20	45.00	1539.17	300.63	1614.61	1367.26		15.16		15.16	F	16.83		13.46	F	9.04	F	10.50		17.09		17.09	F	14.77		12.99		5.41		5.41	F	18.77		12.99
VANO 6	43.20	46.00	1539.17	300.63	1614.61	1367.26		15.16		15.16	F	16.83		13.46	F	9.04	F	10.50		17.09		17.09	F	14.77		12.99		5.41		5.41	F	18.77		12.99
VANO 6	44.40	47.00	1643.90	323.07	1679.31	1451.99		15.29		15.29	F	16.83		14.22	F	9.04	F	10.50		18.07		18.07	F	14.77		13.72		5.78		5.78	F	18.77		13.87
VANO 6	45.60	48.00	1749.29	346.56	1746.52	1536.59		15.42		15.42	F	16.83		14.99	F	9.04	F	10.50		19.06		19.06	F	14.77		14.46		6.15		6.15	F	18.77		14.76
VANO 6	46.80	49.00	1855.28	370.34	1815.72	1621.06		15.56		15.56	F	16.83		15.76		9.39	F	10.50		20.06		20.06		15.20		15.20		6.53		6.53	F	18.77		15.66

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	15.4	15.4
V 2-3	16.6	16.6
V 4-5	17.9	17.9
V 6-8	17.1	17.1
V 8-21	17.0	17.0
V 22	16.4	16.4

LOSA SUP JUNTO A ALMA

MAXIMO	C. EXT As	C. INT As
V 1	16.9	16.9
V 2-3	19.2	19.2
V 4-5	19.8	19.8
V 6-8	19.5	19.5
V 8-21	18.9	18.9
V 22	17.4	17.4

LOSA SUP EN CENTRO DE CAJON

MAXIMO	C. EXT As	C. INT As
V 1	9.0	10.5
V 2-3	10.4	10.5
V 4-5	11.1	11.1
V 6-8	10.9	10.9
V 8-21	11.1	11.1
V 22	10.0	10.5

LOSA INF JUNTO AL ALMA

MAXIMO	C. EXT As	C. INT As
V 1	22.8	22.8
V 2-3	25.5	25.5
V 4-5	26.4	26.4
V 6-8	25.8	25.8
V 8-21	25.0	25.0
V 22	23.2	23.2

LOSA INF EN CENTRO CAJÓN

MAXIMO	C. EXT As	C. INT As
V 1	16.2	16.2
V 2-3	18.3	18.3
V 4-5	19.0	19.0
V 6-8	18.6	18.6
V 8-21	18.1	18.1
V 22	16.6	16.6

VOLADIZOS ZONA EXTERIOR

MAXIMO	C. EXT As	C. INT As
V 1	7.8	7.8
V 2-3	8.4	8.4
V 4-5	8.8	8.8
V 6-8	8.5	8.5
V 8-21	8.3	8.3
V 22	7.8	7.8

VOLADIZOS JUNTO ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	18.8	18.7
V 2-3	20.2	20.2
V 4-5	21.1	21.1
V 6-8	20.3	20.3
V 8-21	20.0	20.0
V 22	18.8	18.6

Esfuerzos y armado de almas

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con		Almas C. EXT As		Almas C. INT As
VANO 7	0.00	1.00	2316.53	710.45	2345.43	1717.32		16.78		16.78
VANO 7	1.20	2.00	1801.53	683.29	2269.69	1632.98		16.63		16.63
VANO 7	2.40	3.00	1698.44	656.36	2195.90	1548.51		16.48		16.48
VANO 7	3.60	4.00	1605.64	629.66	2124.05	1463.91		16.33		16.33
VANO 7	4.80	5.00	1513.50	603.18	2054.14	1379.18		16.19		16.19
VANO 7	4.80	6.00	1513.50	603.18	2054.14	1379.18		16.19		16.19
VANO 7	6.00	7.00	1422.07	576.92	1986.18	1294.33		15.03	F	15.07
VANO 7	7.20	8.00	1331.41	550.89	1920.16	1209.36		13.88	F	15.07
VANO 7	8.40	9.00	1232.18	525.09	1856.09	1124.28		12.72	F	15.07
VANO 7	9.60	10.00	1130.68	499.51	1793.96	1039.09		11.57	F	15.07
VANO 7	9.60	11.00	1130.68	499.51	1793.96	1039.09		11.57	F	15.07
VANO 7	10.80	12.00	1030.10	474.16	1733.77	953.80		10.42	F	15.07
VANO 7	12.00	13.00	930.46	449.04	1675.52	868.42	F	10.15	F	15.07
VANO 7	13.20	14.00	831.83	424.14	1619.22	782.95	F	10.15	F	15.07
VANO 7	14.40	15.00	734.22	399.46	1564.86	697.40	F	10.15	F	15.07
VANO 7	14.40	16.00	717.28	399.46	1564.86	680.45	F	10.15	F	15.07
VANO 7	15.60	17.00	620.74	375.01	1512.44	594.83	F	10.15	F	15.07
VANO 7	16.80	18.00	525.30	350.79	1461.97	509.14	F	10.15	F	15.07
VANO 7	18.00	19.00	430.99	326.79	1413.44	423.39	F	10.15	F	15.07
VANO 7	19.20	20.00	489.77	177.07	1366.96	337.60	F	10.15	F	15.07
VANO 7	19.20	21.00	489.77	177.07	1366.96	337.60	F	10.15	F	15.07
VANO 7	20.40	22.00	567.43	166.70	1322.63	251.77	F	10.15	F	15.07
VANO 7	21.60	23.00	646.40	156.32	1280.45	165.91	F	10.15	F	15.07
VANO 7	22.80	24.00	726.69	145.95	1240.42	80.03	F	10.15	F	15.07
VANO 7	24.00	25.00	399.83	135.57	1202.55	10.26	F	10.15	F	15.07
VANO 7	24.00	26.00	399.83	135.57	1202.55	10.26	F	10.15	F	15.07
VANO 7	25.20	27.00	711.62	187.04	1166.82	97.04	F	10.15	F	15.07
VANO 7	26.40	28.00	631.31	164.70	1134.92	183.82	F	10.15	F	15.07
VANO 7	27.60	29.00	552.32	142.63	1120.16	270.58	F	10.15	F	15.07
VANO 7	28.80	30.00	474.65	120.83	1107.55	357.31	F	10.15	F	15.07
VANO 7	28.80	31.00	474.65	120.83	1107.55	357.31	F	10.15	F	15.07
VANO 7	30.00	32.00	441.60	111.38	1097.08	444.01	F	10.15	F	15.07
VANO 7	31.20	33.00	535.90	124.89	1117.11	525.19	F	10.15	F	15.07
VANO 7	32.40	34.00	631.32	143.44	1155.96	610.89	F	10.15	F	15.07
VANO 7	33.60	35.00	727.84	163.77	1196.76	696.51	F	10.15	F	15.07
VANO 7	33.60	36.00	727.84	163.77	1196.76	696.51	F	10.15	F	15.07
VANO 7	34.80	37.00	825.43	184.39	1239.50	782.07	F	10.15	F	15.07
VANO 7	36.00	38.00	924.05	205.23	1284.18	867.55	F	10.15	F	15.07
VANO 7	37.20	39.00	1023.67	226.30	1330.81	952.93	F	10.15	F	15.07
VANO 7	38.40	40.00	1124.25	247.59	1381.16	1038.23		10.72	F	15.07
VANO 7	38.40	41.00	1124.25	247.59	1381.16	1038.23		10.72	F	15.07
VANO 7	39.60	42.00	1225.73	269.50	1438.03	1123.42		11.87	F	15.07
VANO 7	40.80	43.00	1328.09	292.13	1496.84	1208.51		13.01	F	15.07
VANO 7	42.00	44.00	1431.26	314.99	1557.59	1293.48		14.15	F	15.07
VANO 7	43.20	45.00	1535.21	338.08	1620.29	1378.33		15.30		15.30
VANO 7	43.20	46.00	1535.21	338.08	1620.29	1378.33		15.30		15.30
VANO 7	44.40	47.00	1639.87	361.39	1684.93	1463.07		15.43		15.43
VANO 7	45.60	48.00	1745.20	384.93	1752.06	1547.68		15.57		15.57
VANO 7	46.80	49.00	1851.13	408.69	1821.18	1632.16		15.71		15.71
VANO 8	0.00	1.00	2316.53	710.45	2236.87	1719.11		16.58		16.58
VANO 8	1.20	2.00	1801.53	683.29	2161.66	1634.77		16.43		16.43
VANO 8	2.40	3.00	1698.44	656.36	2088.38	1550.30		16.28		16.28
VANO 8	3.60	4.00	1605.64	629.66	2017.02	1465.71		16.14		16.14
VANO 8	4.80	5.00	1513.50	603.18	1947.60	1380.98		16.00		16.00
VANO 8	4.80	6.00	1513.50	603.18	1947.60	1380.98		16.00		16.00
VANO 8	6.00	7.00	1422.07	576.92	1880.11	1296.14		14.84	F	15.07
VANO 8	7.20	8.00	1331.41	550.89	1814.54	1211.17		13.68	F	15.07
VANO 8	8.40	9.00	1232.18	525.09	1750.90	1126.10		12.53	F	15.07
VANO 8	9.60	10.00	1130.68	499.51	1689.20	1040.92		11.38	F	15.07
VANO 8	9.60	11.00	1130.68	499.51	1689.20	1040.92		11.38	F	15.07
VANO 8	10.80	12.00	1030.10	474.16	1629.42	955.63		10.24	F	15.07
VANO 8	12.00	13.00	930.46	449.04	1571.57	870.26	F	10.15	F	15.07
VANO 8	13.20	14.00	831.83	424.14	1515.65	784.79	F	10.15	F	15.07
VANO 8	14.40	15.00	734.22	399.46	1461.66	699.25	F	10.15	F	15.07
VANO 8	14.40	16.00	717.28	399.46	1461.66	682.30	F	10.15	F	15.07
VANO 8	15.60	17.00	620.74	375.01	1409.60	596.69	F	10.15	F	15.07
VANO 8	16.80	18.00	525.30	350.79	1359.47	511.01	F	10.15	F	15.07
VANO 8	18.00	19.00	430.99	326.79	1311.27	425.27	F	10.15	F	15.07
VANO 8	19.20	20.00	489.77	177.07	1265.10	339.48	F	10.15	F	15.07
VANO 8	19.20	21.00	489.77	177.07	1265.10	339.48	F	10.15	F	15.07
VANO 8	20.40	22.00	567.43	166.70	1221.06	253.66	F	10.15	F	15.07
VANO 8	21.60	23.00	646.40	156.32	1179.16	167.81	F	10.15	F	15.07
VANO 8	22.80	24.00	726.69	145.95	1139.40	81.94	F	10.15	F	15.07
VANO 8	24.00	25.00	399.83	135.57	1103.91	5.42	F	10.15	F	15.07
VANO 8	24.00	26.00	399.83	135.57	1103.91	5.42	F	10.15	F	15.07
VANO 8	25.20	27.00	711.62	187.04	1073.32	91.80	F	10.15	F	15.07
VANO 8	26.40	28.00	631.31	164.70	1056.73	178.57	F	10.15	F	15.07
VANO 8	27.60	29.00	552.32	142.63	1057.99	262.63	F	10.15	F	15.07
VANO 8	28.80	30.00	474.65	120.83	1090.98	348.46	F	10.15	F	15.07
VANO 8	28.80	31.00	474.65	120.83	1090.98	348.46	F	10.15	F	15.07
VANO 8	30.00	32.00	441.60	111.38	1126.11	434.24	F	10.15	F	15.07
VANO 8	31.20	33.00	535.90	124.89	1165.23	519.98	F	10.15	F	15.07
VANO 8	32.40	34.00	631.32	143.44	1210.67	605.66	F	10.15	F	15.07
VANO 8	33.60	35.00	727.84	163.77	1258.04	691.28	F	10.15	F	15.07
VANO 8	33.60	36.00	727.84	163.77	1258.04	691.28	F	10.15	F	15.07
VANO 8	34.80	37.00	825.43	184.39	1307.89	776.83	F	10.15	F	15.07
VANO 8	36.00	38.00	924.05	205.23	1359.71	862.30	F	10.15	F	15.07
VANO 8	37.20	39.00	1023.67	226.30	1413.48	947.68	F	10.15	F	15.07
VANO 8	38.40	40.00	1124.25	247.59	1469.23	1032.97		10.84	F	15.07
VANO 8	38.40	41.00	1124.25	247.59	1469.23	1032.97		10.84	F	15.07
VANO 8	39.60	42.00	1225.73	269.50	1526.91	1118.15		11.98	F	15.07
VANO 8	40.80	43.00	1328.09	292.13	1586.86	1203.23		13.13	F	15.07
VANO 8	42.00	44.00	1431.26	314.99	1651.44	1288.20		14.28	F	15.07
VANO 8	43.20	45.00	1535.21	338.08	1717.95	1373.05		15.44		15.44
VANO 8	43.20	46.00	1535.21	338.08	1717.95	1373.05		15.44		15.44
VANO 8	44.40	47.00	1639.87	361.39	1786.38	1457.77		15.57		15.57
VANO 8	45.60	48.00	1745.20	384.93	1856.75	1542.38		15.72		15.72
VANO 8	46.80	49.00	1851.13	408.69	1929.04	1626.85		15.86		15.86

Losa superior

	Nudo		Losa sup junto a alma C. EXT As		C. INT As		Losa sup centro cajón C. EXT As		C. INT As
VANO 7	1.00		18.70		18.70		10.80		10.80
VANO 7	2.00	F	16.83		16.77		10.35	F	10.50
VANO 7	3.00	F	16.83		15.99		9.90	F	10.50
VANO 7	4.00	F	16.83		15.22		9.46	F	10.50
VANO 7	5.00	F	16.83		14.44	F	9.04	F	10.50
VANO 7	6.00	F	16.83		14.44	F	9.04	F	10.50
VANO 7	7.00	F	16.83		13.67	F	9.04	F	10.50
VANO 7	8.00	F	16.83		12.91	F	9.04	F	10.50
VANO 7	9.00	F	16.83		12.14	F	9.04	F	10.50
VANO 7	10.00	F	16.83		11.38	F	9.04	F	10.50
VANO 7	11.00	F	16.83		11.38	F	9.04	F	10.50
VANO 7	12.00	F	16.83		10.62	F	9.04	F	10.50
VANO 7	13.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	14.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	15.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	16.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	17.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	18.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	19.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	20.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	21.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	22.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	23.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	24.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	25.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	26.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	27.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	28.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	29.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	30.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	31.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	32.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	33.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	34.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	35.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	36.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	37.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	38.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	39.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 7	40.00	F	16.83		10.54	F	9.04	F	10.50
VANO 7	41.00	F	16.83		10.54	F	9.04	F	10.50
VANO 7	42.00	F	16.83		11.29	F	9.04	F	10.50
VANO 7	43.00	F	16.83		12.04	F	9.04	F	10.50
VANO 7	44.00	F	16.83		12.80	F	9.04	F	10.50
VANO 7	45.00	F	16.83		13.56	F	9.04	F	10.50
VANO 7	46.00	F	16.83		13.56	F	9.04	F	10.50
VANO 7	47.00	F	16.83		14.32	F	9.04	F	10.50
VANO 7	48.00	F	16.83		15.08	F	9.04	F	10.50
VANO 7	49.00	F	16.83		15.85		9.44	F	10.50
VANO 8	1.00		18.70		18.70		10.59		10.59
VANO 8	2.00	F	16.83		16.56		10.14	F	10.50
VANO 8	3.00	F	16.83		15.79		9.69	F	10.50
VANO 8	4.00	F	16.83		15.01		9.25	F	10.50
VANO 8	5.00	F	16.83		14.24	F	9.04	F	10.50
VANO 8	6.00	F	16.83		14.24	F	9.04	F	10.50
VANO 8	7.00	F	16.83		13.47	F	9.04	F	10.50
VANO 8	8.00	F	16.83		12.70	F	9.04	F	10.50
VANO 8	9.00	F	16.83		11.94	F	9.04	F	10.50
VANO 8	10.00	F	16.83		11.18	F	9.04	F	10.50
VANO 8	11.00	F	16.83		11.18	F	9.04	F	10.50
VANO 8	12.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	13.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	14.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	15.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	16.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	17.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	18.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	19.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	20.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	21.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	22.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	23.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	24.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	25.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	26.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	27.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	28.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	29.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	30.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	31.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	32.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	33.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	34.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	35.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	36.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	37.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	38.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	39.00	F	16.83	F	10.50	F	9.04	F	10.50
VANO 8	40.00	F	16.83		10.68	F	9.04	F	10.50
VANO 8	41.00	F	16.83		10.68	F	9.04	F	10.50
VANO 8	42.00	F	16.83		11.43	F	9.04	F	10.50
VANO 8	43.00	F	16.83		12.18	F	9.04	F	10.50
VANO 8	44.00	F	16.83		12.95	F	9.04	F	10.50
VANO 8	45.00	F	16.83		13.71	F	9.04	F	10.50
VANO 8	46.00	F	16.83		13.71	F	9.04	F	10.50
VANO 8	47.00	F	16.83		14.48	F	9.04	F	10.50
VANO 8	48.00	F	16.83		15.26		9.19	F	10.50
VANO 8	49.00	F	16.83		16.03		9.64	F	10.50

Losa inferior

	Nudo		Losa inf junto al alma C. EXT As		C. INT As		Losa inf centro cajón C. EXT As		C. INT As
VANO 7	1.00		24.84		24.84		17.90		17.90
VANO 7	2.00		21.10		21.10		16.21		16.21
VANO 7	3.00		20.10		20.10		15.46		15.46
VANO 7	4.00		19.10		19.10	F	14.77		14.71
VANO 7	5.00		18.10		18.10	F	14.77		13.97
VANO 7	6.00		18.10		18.10	F	14.77		13.97
VANO 7	7.00		17.10		17.10	F	14.77		13.23
VANO 7	8.00		16.11		16.11	F	14.77		12.49
VANO 7	9.00		15.12		15.12	F	14.77	F	11.83
VANO 7	10.00	F	14.77		14.14	F	14.77	F	11.83
VANO 7	11.00	F	14.77		14.14	F	14.77	F	11.83
VANO 7	12.00	F	14.77		13.15	F	14.77	F	11.83
VANO 7	13.00	F	14.77		12.17	F	14.77	F	11.83
VANO 7	14.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	15.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	16.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	17.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	18.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	19.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	20.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	21.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	22.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	23.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	24.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	25.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	26.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	27.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	28.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	29.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	30.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	31.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	32.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	33.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	34.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	35.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	36.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	37.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	38.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 7	39.00	F	14.77		12.33	F	14.77	F	11.83
VANO 7	40.00	F	14.77		13.29	F	14.77	F	11.83
VANO 7	41.00	F	14.77		13.29	F	14.77	F	11.83
VANO 7	42.00	F	14.77		14.27	F	14.77	F	11.83
VANO 7	43.00		15.24		15.24	F	14.77	F	11.83
VANO 7	44.00		16.23		16.23	F	14.77		12.35
VANO 7	45.00		17.21		17.21	F	14.77		13.08
VANO 7	46.00		17.21		17.21	F	14.77		13.08
VANO 7	47.00		18.20		18.20	F	14.77		13.81
VANO 7	48.00		19.19		19.19	F	14.77		14.55
VANO 7	49.00		20.18		20.18		15.29		15.29
VANO 8	1.00		24.84		24.84		17.90		17.90
VANO 8	2.00		20.90		20.90		16.00		16.00
VANO 8	3.00		19.90		19.90		15.25		15.25
VANO 8	4.00		18.90		18.90	F	14.77		14.51
VANO 8	5.00		17.90		17.90	F	14.77		13.76
VANO 8	6.00		17.90		17.90	F	14.77		13.76
VANO 8	7.00		16.91		16.91	F	14.77		13.02
VANO 8	8.00		15.92		15.92	F	14.77		12.29
VANO 8	9.00		14.93		14.93	F	14.77	F	11.83
VANO 8	10.00	F	14.77		13.94	F	14.77	F	11.83
VANO 8	11.00	F	14.77		13.94	F	14.77	F	11.83
VANO 8	12.00	F	14.77		12.96	F	14.77	F	11.83
VANO 8	13.00	F	14.77		11.98	F	14.77	F	11.83
VANO 8	14.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	15.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	16.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	17.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	18.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	19.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	20.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	21.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	22.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	23.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	24.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	25.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	26.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	27.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	28.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	29.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	30.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	31.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	32.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	33.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	34.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	35.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	36.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	37.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	38.00	F	14.77	F	11.83	F	14.77	F	11.83
VANO 8	39.00	F	14.77		12.44	F	14.77	F	11.83
VANO 8	40.00	F	14.77		13.42	F	14.77	F	11.83
VANO 8	41.00	F	14.77		13.42	F	14.77	F	11.83
VANO 8	42.00	F	14.77		14.39	F	14.77	F	11.83
VANO 8	43.00		15.37		15.37	F	14.77	F	11.83
VANO 8	44.00		16.36		16.36	F	14.77		12.50
VANO 8	45.00		17.35		17.35	F	14.77		13.24
VANO 8	46.00		17.35		17.35	F	14.77		13.24
VANO 8	47.00		18.35		18.35	F	14.77		13.98
VANO 8	48.00		19.35		19.35	F	14.77		14.73
VANO 8	49.00		20.35		20.35		15.47		15.47

Voladizos

	Nudo		Voladizos zona exterior C. EXT As		C. INT As		Voladizos junto almas C. EXT As		C. INT As
VANO 7	1.00		8.15		8.15		19.55		19.55
VANO 7	2.00		6.34		6.34	F	18.77		15.20
VANO 7	3.00		5.97		5.97	F	18.77		14.33
VANO 7	4.00		5.65		5.65	F	18.77		13.55
VANO 7	5.00		5.32		5.32	F	18.77		12.77
VANO 7	6.00		5.32		5.32	F	18.77		12.77
VANO 7	7.00	F	5.18		5.00	F	18.77		12.00
VANO 7	8.00	F	5.18		4.68	F	18.77		11.24
VANO 7	9.00	F	5.18		4.33	F	18.77		10.40
VANO 7	10.00	F	5.18		3.98	F	18.77		9.54
VANO 7	11.00	F	5.18		3.98	F	18.77		9.54
VANO 7	12.00	F	5.18		3.62	F	18.77		8.69
VANO 7	13.00	F	5.18		3.27	F	18.77		7.85
VANO 7	14.00	F	5.18		2.93	F	18.77		7.02
VANO 7	15.00	F	5.18		2.58	F	18.77		6.20
VANO 7	16.00	F	5.18		2.52	F	18.77		6.05
VANO 7	17.00	F	5.18		2.18	F	18.77		5.24
VANO 7	18.00	F	5.18		1.85	F	18.77		4.43
VANO 7	19.00	F	5.18		1.52	F	18.77		3.64
VANO 7	20.00	F	5.18		1.72	F	18.77		4.13
VANO 7	21.00	F	5.18		1.72	F	18.77		4.13
VANO 7	22.00	F	5.18		2.00	F	18.77		4.79
VANO 7	23.00	F	5.18		2.27	F	18.77		5.46
VANO 7	24.00	F	5.18		2.56	F	18.77		6.13
VANO 7	25.00	F	5.18		1.41	F	18.77		3.37
VANO 7	26.00	F	5.18		1.41	F	18.77		3.37
VANO 7	27.00	F	5.18		2.50	F	18.77		6.01
VANO 7	28.00	F	5.18		2.22	F	18.77		5.33
VANO 7	29.00	F	5.18		1.94	F	18.77		4.66
VANO 7	30.00	F	5.18		1.67	F	18.77		4.01
VANO 7	31.00	F	5.18		1.67	F	18.77		4.01
VANO 7	32.00	F	5.18		1.55	F	18.77		3.73
VANO 7	33.00	F	5.18		1.89	F	18.77		4.52
VANO 7	34.00	F	5.18		2.22	F	18.77		5.33
VANO 7	35.00	F	5.18		2.56	F	18.77		6.14
VANO 7	36.00	F	5.18		2.56	F	18.77		6.14
VANO 7	37.00	F	5.18		2.90	F	18.77		6.97
VANO 7	38.00	F	5.18		3.25	F	18.77		7.80
VANO 7	39.00	F	5.18		3.60	F	18.77		8.64
VANO 7	40.00	F	5.18		3.95	F	18.77		9.49
VANO 7	41.00	F	5.18		3.95	F	18.77		9.49
VANO 7	42.00	F	5.18		4.31	F	18.77		10.34
VANO 7	43.00	F	5.18		4.67	F	18.77		11.21
VANO 7	44.00	F	5.18		5.03	F	18.77		12.08
VANO 7	45.00		5.40		5.40	F	18.77		12.96
VANO 7	46.00		5.40		5.40	F	18.77		12.96
VANO 7	47.00		5.77		5.77	F	18.77		13.84
VANO 7	48.00		6.14		6.14	F	18.77		14.73
VANO 7	49.00		6.51		6.51	F	18.77		15.62
VANO 8	1.00		8.15		8.15		19.55		19.55
VANO 8	2.00		6.34		6.34	F	18.77		15.20
VANO 8	3.00		5.97		5.97	F	18.77		14.33
VANO 8	4.00		5.65		5.65	F	18.77		13.55
VANO 8	5.00		5.32		5.32	F	18.77		12.77
VANO 8	6.00		5.32		5.32	F	18.77		12.77
VANO 8	7.00	F	5.18		5.00	F	18.77		12.00
VANO 8	8.00	F	5.18		4.68	F	18.77		11.24
VANO 8	9.00	F	5.18		4.33	F	18.77		10.40
VANO 8	10.00	F	5.18		3.98	F	18.77		9.54
VANO 8	11.00	F	5.18		3.98	F	18.77		9.54
VANO 8	12.00	F	5.18		3.62	F	18.77		8.69
VANO 8	13.00	F	5.18		3.27	F	18.77		7.85
VANO 8	14.00	F	5.18		2.93	F	18.77		7.02
VANO 8	15.00	F	5.18		2.58	F	18.77		6.20
VANO 8	16.00	F	5.18		2.52	F	18.77		6.05
VANO 8	17.00	F	5.18		2.18	F	18.77		5.24
VANO 8	18.00	F	5.18		1.85	F	18.77		4.43
VANO 8	19.00	F	5.18		1.52	F	18.77		3.64
VANO 8	20.00	F	5.18		1.72	F	18.77		4.13
VANO 8	21.00	F	5.18		1.72	F	18.77		4.13
VANO 8	22.00	F	5.18		2.00	F	18.77		4.79
VANO 8	23.00	F	5.18		2.27	F	18.77		5.46
VANO 8	24.00	F	5.18		2.56	F	18.77		6.13
VANO 8	25.00	F	5.18		1.41	F	18.77		3.37
VANO 8	26.00	F	5.18		1.41	F	18.77		3.37
VANO 8	27.00	F	5.18		2.50	F	18.77		6.01
VANO 8	28.00	F	5.18		2.22	F	18.77		5.33
VANO 8	29.00	F	5.18		1.94	F	18.77		4.66
VANO 8	30.00	F	5.18		1.67	F	18.77		4.01
VANO 8	31.00	F	5.18		1.67	F	18.77		4.01
VANO 8	32.00	F	5.18		1.55	F	18.77		3.73
VANO 8	33.00	F	5.18		1.89	F	18.77		4.52
VANO 8	34.00	F	5.18		2.22	F	18.77		5.33
VANO 8	35.00	F	5.18		2.56	F	18.77		6.14
VANO 8	36.00	F	5.18		2.56	F	18.77		6.14
VANO 8	37.00	F	5.18		2.90	F	18.77		6.97
VANO 8	38.00	F	5.18		3.25	F	18.77		7.80
VANO 8	39.00	F	5.18		3.60	F	18.77		8.64
VANO 8	40.00	F	5.18		3.95	F	18.77		9.49
VANO 8	41.00	F	5.18		3.95	F	18.77		9.49
VANO 8	42.00	F	5.18		4.31	F	18.77		10.34
VANO 8	43.00	F	5.18		4.67	F	18.77		11.21
VANO 8	44.00	F	5.18		5.03	F	18.77		12.08
VANO 8	45.00		5.40		5.40	F	18.77		12.96
VANO 8	46.00		5.40		5.40	F	18.77		12.96
VANO 8	47.00		5.77		5.77	F	18.77		13.84
VANO 8	48.00		6.14		6.14	F	18.77		14.73
VANO 8	49.00		6.51		6.51	F	18.77		15.62

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
		14	Variables
Nº TENDON	6	19	19
Nº CORDON	25	26.5	26.5
ROTURA TE	28.5	0.75	75%
% TESADO	0.8	0.2	20%
% PERDIDA	0.16	1	1.0
COEF. SEG	1		

ARMADO DE ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	15.4	15.4
V 2-3	16.6	16.6
V 4-5	17.9	17.9
V 6-8	17.1	17.1
V 8-21	17.0	17.0
V 22	16.4	16.4

LOSA SUP JUNTO A ALMA

MAXIMO	C. EXT As	C. INT As
V 1	16.9	16.9
V 2-3	19.2	19.2
V 4-5	19.8	19.8
V 6-8	19.5	19.5
V 8-21	18.9	18.9
V 22	17.4	17.4

LOSA SUP EN CENTRO DE CAJON

MAXIMO	C. EXT As	C. INT As
V 1	9.0	10.5
V 2-3	10.4	10.5
V 4-5	11.1	11.1
V 6-8	10.9	10.9
V 8-21	11.1	11.1
V 22	10.0	10.5

LOSA INF JUNTO AL ALMA

MAXIMO	C. EXT As	C. INT As
V 1	22.8	22.8
V 2-3	25.5	25.5
V 4-5	26.4	26.4
V 6-8	25.8	25.8
V 8-21	25.0	25.0
V 22	23.2	23.2

LOSA INF EN CENTRO CAJÓN

MAXIMO	C. EXT As	C. INT As
V 1	16.2	16.2
V 2-3	18.3	18.3
V 4-6	19.0	19.0
V 6-8	18.6	18.6
V 8-21	18.1	18.1
V 22	16.6	16.6

VOLADIZOS ZONA EXTERIOR

MAXIMO	C. EXT As	C. INT As
V 1	7.8	7.8
V 2-3	8.4	8.4
V 4-6	8.8	8.8
V 6-8	8.5	8.5
V 8-21	8.3	8.3
V 22	7.8	7.8

VOLADIZOS JUNTO ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	18.8	18.7
V 2-3	20.2	20.2
V 4-5	21.1	21.1
V 6-8	20.3	20.3
V 8-21	20.0	20.0
V 22	18.8	18.6

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As
VANO 9	0.00	1.00	2316.53	710.45	2078.91	1719.14	16.26	16.26	18.70	18.70	10.27 F	10.50	24.84	24.84	17.90	17.90	8.15	8.15	19.55	19.55
VANO 9	1.20	2.00	1801.53	683.29	2004.31	1634.80	16.11	16.11	F 16.83	16.24	9.82 F	10.50	20.58	20.58	15.68	15.68	6.34	6.34	F 18.77	15.20
VANO 9	2.40	3.00	1698.44	656.36	1931.63	1550.33	15.97	15.97	F 16.83	15.47	9.37 F	10.50	19.58	19.58	14.93	14.93	5.97	5.97	F 18.77	14.33
VANO 9	3.60	4.00	1605.64	629.66	1860.88	1465.72	15.82	15.82	F 16.83	14.69	F 9.04 F	10.50	18.58	18.58	F 14.77	14.19	5.65	5.65	F 18.77	13.55
VANO 9	4.80	5.00	1513.50	603.18	1792.05	1381.00	15.68	15.68	F 16.83	13.92	F 9.04 F	10.50	17.59	17.59	F 14.77	13.45	5.32	5.32	F 18.77	12.77
VANO 9	4.80	6.00	1513.50	603.18	1792.05	1381.00	15.68	15.68	F 16.83	13.92	F 9.04 F	10.50	17.59	17.59	F 14.77	13.45	5.32	5.32	F 18.77	12.77
VANO 9	6.00	7.00	1422.07	576.92	1725.15	1296.15	14.53 F	15.07	F 16.83	13.16	F 9.04 F	10.50	16.59	16.59	F 14.77	12.71	F 5.18	5.00	F 18.77	12.00
VANO 9	7.20	8.00	1331.41	550.89	1660.18	1211.18	13.37 F	15.07	F 16.83	12.39	F 9.04 F	10.50	15.60	15.60	F 14.77	11.97	F 5.18	4.68	F 18.77	11.24
VANO 9	8.40	9.00	1232.18	525.09	1597.13	1126.11	12.22 F	15.07	F 16.83	11.63	F 9.04 F	10.50	F 14.77	14.62	F 14.77 F	11.83	F 5.18	4.33	F 18.77	10.40
VANO 9	9.60	10.00	1130.68	499.51	1536.01	1040.92	11.07 F	15.07	F 16.83	10.87	F 9.04 F	10.50	F 14.77	13.63	F 14.77 F	11.83	F 5.18	3.98	F 18.77	9.54
VANO 9	9.60	11.00	1130.68	499.51	1536.01	1040.92	11.07 F	15.07	F 16.83	10.87	F 9.04 F	10.50	F 14.77	13.63	F 14.77 F	11.83	F 5.18	3.98	F 18.77	9.54
VANO 9	10.80	12.00	1030.10	474.16	1476.82	955.64	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77	12.65	F 14.77 F	11.83	F 5.18	3.62	F 18.77	8.69
VANO 9	12.00	13.00	930.46	449.04	1419.56	870.26	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	3.27	F 18.77	7.85
VANO 9	13.20	14.00	831.83	424.14	1364.22	784.80	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.93	F 18.77	7.02
VANO 9	14.40	15.00	734.22	399.46	1310.80	699.25	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.58	F 18.77	6.20
VANO 9	14.40	16.00	717.28	399.46	1310.80	682.31	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.52	F 18.77	6.05
VANO 9	15.60	17.00	620.74	375.01	1259.32	596.69	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.18	F 18.77	5.24
VANO 9	16.80	18.00	525.30	350.79	1209.93	511.01	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.85	F 18.77	4.43
VANO 9	18.00	19.00	430.99	326.79	1165.35	425.27	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.52	F 18.77	3.64
VANO 9	19.20	20.00	489.77	177.07	1122.79	339.48	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.72	F 18.77	4.13
VANO 9	19.20	21.00	489.77	177.07	1122.79	339.48	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.72	F 18.77	4.13
VANO 9	20.40	22.00	567.43	166.70	1083.04	253.66	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.00	F 18.77	4.79
VANO 9	21.60	23.00	646.40	156.32	1049.31	167.81	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.27	F 18.77	5.46
VANO 9	22.80	24.00	726.69	145.95	1024.04	82.85	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.56	F 18.77	6.13
VANO 9	24.00	25.00	399.83	135.57	1050.65	4.40	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.41	F 18.77	3.37
VANO 9	24.00	26.00	399.83	135.57	1050.65	4.40	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.41	F 18.77	3.37
VANO 9	25.20	27.00	711.62	187.04	1087.87	90.08	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.50	F 18.77	6.01
VANO 9	26.40	28.00	631.31	164.70	1127.22	175.95	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.22	F 18.77	5.33
VANO 9	27.60	29.00	552.32	142.63	1168.70	261.80	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.94	F 18.77	4.66
VANO 9	28.80	30.00	474.65	120.83	1212.32	347.62	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.67	F 18.77	4.01
VANO 9	28.80	31.00	474.65	120.83	1212.32	347.62	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.67	F 18.77	4.01
VANO 9	30.00	32.00	441.60	111.38	1258.07	433.40	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.55	F 18.77	3.73
VANO 9	31.20	33.00	535.90	124.89	1305.85	519.14	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.89	F 18.77	4.52
VANO 9	32.40	34.00	631.32	143.44	1355.56	604.82	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.22	F 18.77	5.33
VANO 9	33.60	35.00	727.84	163.77	1407.19	690.44	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.56	F 18.77	6.14
VANO 9	33.60	36.00	727.84	163.77	1407.19	690.44	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.56	F 18.77	6.14
VANO 9	34.80	37.00	825.43	184.39	1460.76	775.98	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.90	F 18.77	6.97
VANO 9	36.00	38.00	924.05	205.23	1516.25	861.45	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	3.25	F 18.77	7.80
VANO 9	37.20	39.00	1023.67	226.30	1573.66	946.82	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	12.76	F 14.77 F	11.83	F 5.18	3.60	F 18.77	8.64
VANO 9	38.40	40.00	1124.25	247.59	1633.01	1032.11	11.16 F	15.07	F 16.83	11.00	F 9.04 F	10.50	F 14.77	13.74	F 14.77 F	11.83	F 5.18	3.95	F 18.77	9.49
VANO 9	38.40	41.00	1124.25	247.59	1633.01	1032.11	11.16 F	15.07	F 16.83	11.00	F 9.04 F	10.50	F 14.77	13.74	F 14.77 F	11.83	F 5.18	3.95	F 18.77	9.49
VANO 9	39.60	42.00	1225.73	269.50	1694.28	1117.29	12.31 F	15.07	F 16.83	11.76	F 9.04 F	10.50	F 14.77	14.72	F 14.77 F	11.83	F 5.18	4.31	F 18.77	10.34
VANO 9	40.80	43.00	1328.09	292.13	1757.48	1202.36	13.46 F	15.07	F 16.83	12.52	F 9.04 F	10.50	15.71	15.71	F 14.77	12.11	F 5.18	4.67	F 18.77	11.21
VANO 9	42.00	44.00	1431.26	314.99	1822.60	1287.33	14.62 F	15.07	F 16.83	13.29	F 9.04 F	10.50	16.70	16.70	F 14.77	12.84	F 5.18	5.03	F 18.77	12.08
VANO 9	43.20	45.00	1535.21	338.08	1889.66	1372.17	15.77	15.77	F 16.83	14.06	F 9.04 F	10.50	17.69	17.69	F 14.77	13.58	5.40	5.40	F 18.77	12.96
VANO 9	43.20	46.00	1535.21	338.08	1889.66	1372.17	15.77	15.77	F 16.83	14.06	F 9.04 F	10.50	17.69	17.69	F 14.77	13.58	5.40	5.40	F 18.77	12.96
VANO 9	44.40	47.00	1639.87	361.39	1958.64	1456.90	15.91	15.91	F 16.83	14.83	9.10 F	10.50	18.69	18.69	F 14.77	14.33	5.77	5.77	F 18.77	12.96
VANO 9	45.60	48.00	1745.20	384.93	2029.54	1541.49	16.06	16.06	F 16.83	15.60	9.54 F	10.50	19.69	19.69	15.07	15.07	6.14	6.14	F 18.77	13.84
VANO 9	46.80	49.00	1851.13	408.69	2102.38	1625.96	16.21	16.21	F 16.83	16.38	9.99 F	10.50	20.69	20.69	15.82	15.82	6.51	6.51	F 18.77	14.73
VANO 10	0.00	1.00	2316.53	710.45	2116.28	1713.85	16.28	16.28	18.70	18.70	10.32 F	10.50	24.84	24.84	17.90	17.90	8.15	8.15	19.55	19.55
VANO 10	1.20	2.00	1801.53	683.29	2041.81	1629.51	16.13	16.13	F 16.83	16.28	9.88 F	10.50	20.60	20.60	15.72	15.72	6.34	6.34	F 18.77	15.20
VANO 10	2.40	3.00	1698.44	656.36	1969.25	1545.03	15.98	15.98	F 16.83	15.51	9.43 F	10.50	19.60	19.60	14.97	14.97	5.97	5.97	F 18.77	14.33
VANO 10	3.60	4.00	1605.64	629.66	1898.61	1460.43	15.83	15.83	F 16.83	14.73	F 9.04 F	10.50	18.60	18.60	F 14.77	14.23	5.65	5.65	F 18.77	13.55
VANO 10	4.80	5.00	1513.50	603.18	1829.89	1375.69	15.70	15.70	F 16.83	13.96	F 9.04 F	10.50	17.61	17.61	F 14.77	13.49	5.32	5.32	F 18.77	12.77
VANO 10	4.80	6.00	1513.50	603.18	1829.89	1375.69	15.70	15.70	F 16.83	13.96	F 9.04 F	10.50	17.61	17.61	F 14.77	13.49	5.32	5.32	F 18.77	12.77
VANO 10	6.00	7.00	1422.07	576.92	1763.09	1290.84	14.54 F	15.07	F 16.83	13.19	F 9.04 F	10.50	16.62	16.62	F 14.77	12.75	F 5.18	5.00	F 18.77	12.00
VANO 10	7.20	8.00	1331.41	550.89	1698.20	1205.87	13.38 F	15.07	F 16.83	12.43	F 9.04 F	10.50	15.63	15.63	F 14.77	12.01	F 5.18	4.68	F 18.77	11.24
VANO 10	8.40	9.00	1232.18	525.09	1635.24	1120.78	12.23 F	15.07	F 16.83	11.67	F 9.04 F	10.50	F 14.77	14.64	F 14.77 F	11.83	F 5.18	4.33	F 18.77	10.40
VANO 10	9.60	10.00	1130.68	499.51	1574.19	1035.59	11.08 F	15.07	F 16.83	10.91	F 9.04 F	10.50	F 14.77	13.65	F 14.77 F	11.83	F 5.18	3.98	F 18.77	9.54
VANO 10	9.60	11.00	1130.68	499.51	1574.19	1035.59	11.08 F	15.07	F 16.83	10.91	F 9.04 F	10.50	F 14.77	13.65	F 14.77 F	11.83	F 5.18	3.98	F 18.77	9.54
VANO 10	10.80	12.00	1030.10	474.16	1515.06	950.30	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77	12.67	F 14.77 F	11.83	F 5.18	3.62	F 18.77	8.69
VANO 10	12.00	13.00	930.46	449.04	1457.85	864.92	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	3.27	F 18.77	7.85
VANO 10	13.20	14.00	831.83	424.14	1402.56	779.44	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.93	F 18.77	7.02
VANO 10	14.40	15.00	734.22	399.46	1349.19	693.89	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.58	F 18.77	6.20
VANO 10	14.40	16.00	717.28	399.46	1349.19	676.95	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.52	F 18.77	6.05
VANO 10	15.60	17.00	620.74	375.01	1297.73	591.32	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.18	F 18.77	5.24
VANO 10	16.80	18.00	525.30	350.79	1248.46	505.63	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.85	F 18.77	4.43
VANO 10	18.00	19.00	430.99	326.79	1203.80	419.89	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.52	F 18.77	3.64
VANO 10	19.20	20.00	489.77	177.07	1161.17	334.10	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.72	F 18.77	4.13
VANO 10	19.20	21.00	489.77	177.07	1161.17	334.10	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.72	F 18.77	4.13
VANO 10	20.40	22.00	567.43	166.70	1120.92	248.27	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.00	F 18.77	4.79
VANO 10	21.60	23.00	646.40	156.32	1085.17	162.41	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.27	F 18.77	5.46
VANO 10	22.80	24.00	726.69	145.95	1056.79	77.40	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.56	F 18.77	6.13
VANO 10	24.00	25.00	399.83	135.57	1081.32	9.42	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.41	F 18.77	3.37
VANO 10	24.00	26.00	399.83	135.57	1081.32	9.42	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.41	F 18.77	3.37
VANO 10	26.20	27.00	711.62	187.04	1118.31	95.30	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.50	F 18.77	6.01
VANO 10	26.40	28.00	631.31	164.70	1157.44	181.18	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.22	F 18.77	5.33
VANO 10	27.60	29.00	552.32	142.63	1198.68	267.03	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.94	F 18.77	4.66
VANO 10	28.80	30.00	474.65	120.83	1242.05	352.86	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.67	F 18.77	4.01
VANO 10	28.80	31.00	474.65	120.83	1242.05	352.86	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.67	F 18.77	4.01
VANO 10	30.00	32.00	441.60	111.38	1287.55	438.65	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.55	F 18.77	3.73
VANO 10	31.20	33.00	535.90	124.89	1335.06	524.39	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.89	F 18.77	4.52
VANO 10	32.40	34.00	631.32	143.44	1384.50	610.08	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.22	F 18.77	5.33
VANO 10	33.60	35.00	727.84	163.77	1435.85	695.70	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.56	F 18.77	6.14
VANO 10	33.60	36.00	727.84	163.77	1435.85	695.70	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.56	F 18.77	6.14
VANO 10	34.80	37.00	825.43	184.39	1489.12	781.25	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.89	F 14.77 F	11.83	F 5.18	2.90	F 18.77	6.97
VANO 10	36.00	38.00	924.05	205.23	1544.31	866.72	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77	12.67	F 14.77 F	11.83	F 5.18	3.25	F 18.77	7.80
VANO 10	37.20	39.00	1023.67	226.30	1601.42	952.11	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77	13.85	F 14.77 F	11.83	F 5.18	3.60	F 18.77	8.64
VANO 10	38.40	40.00	1124.25	247.59	1660.45	1037.39	11.28 F	15.07	F 16.83	11.10	F 9.04 F	10.50	F 14.77	13.85	F 14.77 F	11.83	F 5.18	3.95	F 18.77	9.49
VANO 10	38.40	41.00	1124.25	247.59	1660.45	1037.39	11.28 F	15.07	F 16.83	11.10	F 9.04 F	10.50	F 14.77	13.85	F 14.77 F	11.83	F 5.18	3.95	F 18.77	9.49
VANO 10	39.60	42.00	1225.73	269.50	1721.40	1122.58	12.43 F	15.07	F 16.83	11.86	F 9.04 F	10.50	14.83	14.83	F 14.77 F	11.83	F 5.18	4.31	F 18.77	10.34
VANO 10	40.80	43.00	1328.09	292.13	1784.26	1207.66	13.58 F	15.07	F 16.83	12.62	F 9.04 F	10.50	15.82	15.82	F 14.77 F	11.83	F 5.18	4.67	F 18.77	11.21
VANO 10	42.00	44.00	1431.26	314.99	1849.04	1292.63	14.73 F	15.07	F 16.83	13.38	F 9.04 F	10.50	16.81	16.81	F 14.77	12.20	F 5.18	5.03	F 18.77	12.08
VANO 10	43.20	45.00	1535.21	338.08	1915.75	1377.48	15.89	15.89	F 16.83	14.15	F 9.04 F	10.50	17.80	17.80	F 14.77	12.94	5.40	5.40	F 18.77	12.96
VANO 10	43.20	46.00	1535.21	338.08	1915.75	1377.48	15.89	15.89	F 16.83	14.15	F 9.04 F	10.50	17.80	17.80	F 14.77	13.67	5.40	5.40	F 18.77	12.96
VANO 10	44.40	47.00	1639.87	361.39	1984.37	1462.20	16.03	16.03	F 16.83	14.92	9.17 F	10.50	18.80	18.80	F 14.77	13.67	5.40	5.40	F 18.77	12.96
VANO 10	45.60	48.00	1745.20	384.93	2054.91	1546.80	16.17	16.17	F 16.83	15.69	9.61 F	10.50	19.79	19.79	F 14.77	14.42	5.77	5.77	F 18.77	13.84
VANO 10	46.80	49.00	1851.13	408.69	2127.37	1631.28	16.32	16.32	F 16.83	16.47	10.06 F	10.50	20.79	20.79	15.16	15.16	6.14	6.14	F 18.77	14.73
															15.91	15.91	6.51	6.51	F 18.77	15.62

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS		
	SEC CDV	SEC S PILA
I	20 008	24 9687
ys	1 495	1 754
yi	2 505	2 246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28 5	28 5	28 5
% TESADO	0 8	0 75	75%
% PERDIDA	0.16	0 2	20%
COEF. SEG	1	1	1.0

ARMADO DE ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	15.4	15.4
V 2-3	16.6	16.6
V 4-5	17.9	17.9
V 6-8	17.1	17.1
V 8-21	17.0	17.0
V 22	16.4	16.4

LOSA SUP JUNTO A ALMA

MAXIMO	C. EXT As	C. INT As
V 1	16.9	16.9
V 2-3	19.2	19.2
V 4-5	19.8	19.8
V 6-8	19.5	19.5
V 8-21	18.9	18.9
V 22	17.4	17.4

LOSA SUP EN CENTRO DE CAJON

MAXIMO	C. EXT As	C. INT As
V 1	9.0	10.5
V 2-3	10.4	10.5
V 4-5	11.1	11.1
V 6-8	10.9	10.9
V 8-21	11.1	11.1
V 22	10.0	10.5

LOSA INF JUNTO AL ALMA

MAXIMO	C. EXT As	C. INT As
V 1	22.8	22.8
V 2-3	25.5	25.5
V 4-5	26.4	26.4
V 6-8	25.8	25.8
V 8-21	25.0	25.0
V 22	23.2	23.2

LOSA INF EN CENTRO CAJÓN

MAXIMO	C. EXT As	C. INT As
V 1	16.2	16.2
V 2-3	18.3	18.3
V 4-5	19.0	19.0
V 6-8	18.6	18.6
V 8-21	18.1	18.1
V 22	16.6	16.6

VOLADIZOS ZONA EXTERIOR

MAXIMO	C. EXT As	C. INT As
V 1	7.8	7.8
V 2-3	8.4	8.4
V 4-5	8.8	8.8
V 6-8	8.5	8.5
V 8-21	8.3	8.3
V 22	7.8	7.8

VOLADIZOS JUNTO ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	18.8	18.7
V 2-3	20.2	20.2
V 4-5	21.1	21.1
V 6-8	20.3	20.3
V 8-21	20.0	20.0
V 22	18.8	18.6

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As
VANO 11	0.00	1.00	2316 53	710 45	2046 18	1722 67	17.40	17.84	19.83	19.83	11.00	11.00	24.44	24.44	17.90	17.90	8.15	8.15	19.55	19.55
VANO 11	1.20	2.00	1801 53	683 29	1971 67	1638 53	16.24	16.24	18.70	18.70	10.21	F 10.50	24.84	24.84	17.90	17.90	8.15	8.15	19.55	19.55
VANO 11	2.40	3.00	1698 44	656 36	1899 08	1554 05	16.09	16.09	F 16.83	16.21	9.77	F 10.50	20.55	20.55	15.64	15.64	6.34	6.34	F 18.77	15.20
VANO 11	3.60	4.00	1605 64	629 66	1828 42	1469 45	15.94	15.94	F 16.83	15.43	9.32	F 10.50	19.55	19.55	14.89	14.89	5.97	5.97	F 18.77	14.33
VANO 11	4.80	5.00	1513 50	603.18	1759 69	1384 72	15 80	15 80	F 16.83	14.66	F 9.04	F 10.50	18 55	18.55	F 14.77	14.15	5.65	5.65	F 18.77	13.55
VANO 11	4.80	6 00	1513 50	603.18	1759 69	1384 72	15 66	15 66	F 16 83	13.89	F 9.04	F 10.50	17 56	17.56	F 14.77	13.41	5.32	5.32	F 18.77	12.77
VANO 11	6.00	7 00	1422 07	576 92	1692 88	1299 87	15 66	15 66	F 16 83	13.89	F 9.04	F 10.50	17 56	17.56	F 14.77	13.41	5.32	5.32	F 18.77	12.77
VANO 11	7.20	8 00	1331 41	550 89	1627 99	1214 90	14.50	F 15 07	F 16 83	13.12	F 9.04	F 10.50	16 56	16.56	F 14.77	12.67	F 5.18	5.00	F 18.77	12.00
VANO 11	8.40	9 00	1232 18	525 09	1565 03	1129 81	13.35	F 15 07	F 16 83	12 35	F 9.04	F 10.50	15 58	15.58	F 14.77	11.94	F 5.18	4.68	F 18.77	11.24
VANO 11	9.60	10 00	1130 68	499 51	1506 42	1044 63	12.20	F 15 07	F 16 83	11 59	F 9.04	F 10.50	F 14.77	14.59	F 14.77	F 11.83	F 5.18	4.33	F 18.77	10.40
VANO 11	9.60	11 00	1130 68	499 51	1506 42	1044 63	11 06	F 15 07	F 16 83	10 84	F 9.04	F 10.50	F 14.77	13.61	F 14.77	F 11.83	F 5.18	3.98	F 18.77	9.54
VANO 11	10.80	12 00	1030 10	474 16	1450.27	959 34	11 06	F 15 07	F 16 83	10 84	F 9.04	F 10.50	F 14.77	13.61	F 14.77	F 11.83	F 5.18	3.98	F 18.77	9.54
VANO 11	12.00	13 00	930 46	449 04	1396 03	873 95	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	12.63	F 14.77	F 11.83	F 5.18	3.62	F 18.77	8.69
VANO 11	13.20	14 00	831 83	424 14	1343 77	786 48	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	3.27	F 18.77	7.85
VANO 11	14.40	15 00	734 22	399.46	1293 46	702 93	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.93	F 18.77	7.02
VANO 11	14.40	16 00	717 28	399.46	1293 46	685.99	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.58	F 18.77	6.20
VANO 11	15.60	17 00	620 74	375 01	1245.81	600.36	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.52	F 18.77	6.05
VANO 11	16.80	18 00	525 30	350.79	1200 24	514 67	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.18	F 18.77	5.24
VANO 11	18.00	19 00	430 99	326 79	1159 67	428 93	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.85	F 18.77	4.43
VANO 11	19.20	20 00	489 77	177 07	1124 41	343 13	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.52	F 18.77	3.64
VANO 11	19.20	21 00	489 77	177 07	1124.41	343 13	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.72	F 18.77	4.13
VANO 11	20.40	22 00	567 43	166 70	1091 28	257 31	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.72	F 18.77	4.13
VANO 11	21.60	23 00	646 40	156 32	1072 39	173 29	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.00	F 18.77	4.79
VANO 11	22.80	24 00	726 69	145 95	1088 53	86 52	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.27	F 18.77	5.46
VANO 11	24.00	25 00	399 83	135 57	1119.74	1.70	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.13
VANO 11	24.00	26 00	399 83	135 57	1119 74	1.70	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.41	F 18.77	3.37
VANO 11	25.20	27 00	711 62	187 04	1156.83	86 22	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.41	F 18.77	3.37
VANO 11	26.40	28 00	631 31	164 70	1196 05	172 09	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.50	F 18.77	6.01
VANO 11	27.60	29 00	552 32	142 63	1237 41	257 95	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.22	F 18.77	5.33
VANO 11	28.80	30 00	474 65	120 83	1280 90	343.78	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.94	F 18.77	4.66
VANO 11	28.80	31 00	474 65	120 83	1280 90	343.78	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.67	F 18.77	4.01
VANO 11	30.00	32 00	441 60	111 38	1326 51	429.57	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.67	F 18.77	4.01
VANO 11	31.20	33 00	535 90	124 89	1374 16	515.32	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.55	F 18.77	3.73
VANO 11	32.40	34 00	631 32	143.44	1423.73	601.01	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.89	F 18.77	4.52
VANO 11	33.60	35 00	727 84	163.77	1475 23	686.63	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.22	F 18.77	5.33
VANO 11	33.60	36 00	727 84	163 77	1475 23	686.63	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.14
VANO 11	34.80	37 00	825 43	184 39	1528 65	772.18	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.14
VANO 11	36.00	38 00	924 05	205 23	1584 00	857 66	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	11.88	F 14.77	F 11.83	F 5.18	2.90	F 18.77	6.97
VANO 11	37.20	39 00	1023 67	226 30	1641 27	943.04	F 10.15	F 15 07	F 16 83	F 10.50	F 9.04	F 10.50	F 14.77	12.86	F 14.77	F 11.83	F 5.18	3.25	F 18.77	7.80
VANO 11	38.40	40 00	1124 25	247 59	1700 47	1028.33	11 25	F 15 07	F 16 83	11.11	F 9.04	F 10.50	F 14.77	13.84	F 14.77	F 11.83	F 5.18	3.60	F 18.77	8.64
VANO 11	38.40	41 00	1124 25	247 59	1700 47	1028 33	11.25	F 15 07	F 16 83	11.11	F 9.04	F 10.50	F 14.77	13.84	F 14.77	F 11.83	F 5.18	3.95	F 18.77	9.49
VANO 11	39.60	42 00	1225 73	269 50	1761 60	1113.52	12.40	F 15 07	F 16 83	11.87	F 9.04	F 10.50	14.82	14.82	F 14.77	F 11.83	F 5.18	3.95	F 18.77	9.49
VANO 11	40.80	43 00	1328 09	292 13	1824 64	1198.60	13.55	F 15 07	F 16 83	12.63	F 9.04	F 10.50	15.81	15.81	F 14.77	12.22	F 5.18	4.31	F 18.77	10.34
VANO 11	42.00	44 00	1431 26	314 99	1889 62	1283 57	14 71	F 15 07	F 16 83	13.40	F 9.04	F 10.50	16.80	16.80	F 14.77	12.95	F 5.18	4.67	F 18.77	11.21
VANO 11	43.20	45 00	1535.21	338 08	1956 52	1368.43	15.86	15.86	F 16.83	14.16	F 9.04	F 10.50	17.79	17.79	F 14.77	13.69	5.40	5.40	F 18.77	12.08
VANO 11	43.20	46 00	1535 21	338 08	1956 52	1368.43	15.86	15.86	F 16.83	14.16	F 9.04	F 10.50	17.79	17.79	F 14.77	13.69	5.40	5.40	F 18.77	12.96
VANO 11	44.40	47.00	1639.87	361 39	2025.34	1453 16	16.00	16.00	F 16.83	14.93	9.22	F 10.50	18.79	18.79	F 14.77	14.43	5.77	5.77	F 18.77	12.96
VANO 11	45.60	48.00	1745 20	384 93	2096 09	1537.76	16.15	16.15	F 16.83	15.71	9.66	F 10.50	19.79	19.79	15.18	15.18	6.14	6.14	F 18.77	13.84
VANO 11	46.80	49.00	1851 13	408.69	2168.77	1622 24	16.30	16.30	F 16.83	16.49	10.11	F 10.50	20.79	20.79	15.93	15.93	6.51	6.51	F 18.77	14.73
VANO 12	0.00	1.00	2316 53	710 45	2093 30	1716 19	16.45	16.84	18.90	18.90	10.50	10.50	24.78	24.78	17.90	17.90	8.15	8.15	19.55	19.55
VANO 12	1.20	2.00	1801 53	683.29	2018 26	1631 85	16 26	16.26	18.70	18.70	10.29	F 10.50	24.84	24.84	17.90	17.90	8.15	8.15	19.55	19.55
VANO 12	2.40	3.00	1698.44	656.36	1945.16	1547.38	16 11	16.11	F 16.83	16.25	9.84	F 10.50	20.58	20.58	15.69	15.69	6.34	6.34	F 18.77	15.20
VANO 12	3.60	4.00	1605 64	629.66	1874.00	1462 78	15.96	15.96	F 16.83	15.47	9.39	F 10.50	19.58	19.58	14.94	14.94	5.97	5.97	F 18.77	14.33
VANO 12	4.80	5 00	1513.50	603.18	1804.78	1378.05	15.81	15.81	F 16.83	14.70	F 9.04	F 10.50	18.58	18.58	F 14.77	14.20	5.65	5.65	F 18.77	13.55
VANO 12	4.80	6 00	1513 50	603 18	1804.78	1378.05	15.67	15.67	F 16.83	13.93	F 9.04	F 10.50	17.58	17.58	F 14.77	13.45	5.32	5.32	F 18.77	12.77
VANO 12	6.00	7 00	1422 07	576.92	1737.50	1293.20	15.67	15.67	F 16.83	13.93	F 9.04	F 10.50	17.58	17.58	F 14.77	13.45	5.32	5.32	F 18.77	12.77
VANO 12	7.20	8 00	1331.41	550 89	1672.16	1208.23	14.52	F 15.07	F 16.83	13.16	F 9.04	F 10.50	16.59	16.59	F 14.77	12.71	F 5.18	5.00	F 18.77	12.00
VANO 12	8.40	9 00	1232.18	525 09	1608.77	1123.15	13.36	F 15.07	F 16.83	12.39	F 9.04	F 10.50	15.60	15.60	F 14.77	11.98	F 5.18	4.68	F 18.77	11.24
VANO 12	9.60	10.00	1130 68	499 51	1547.31	1037.96	12.21	F 15.07	F 16.83	11.63	F 9.04	F 10.50	F 14.77	14.61	F 14.77	F 11.83	F 5.18	4.33	F 18.77	10.40
VANO 12	9.60	11 00	1130 68	499.51	1547.31	1037.96	11 06	F 15.07	F 16.83	10.87	F 9.04	F 10.50	F 14.77	13.62	F 14.77	F 11.83	F 5.18	3.98	F 18.77	9.54
VANO 12	10.80	12 00	1030.10	474.16	1487.80	952.67	11 06	F 15.07	F 16.83	10.87	F 9.04	F 10.50	F 14.77	13.62	F 14.77	F 11.83	F 5.18	3.98	F 18.77	9.54
VANO 12	12.00	13 00	930.46	449 04	1430.22	867.29	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	12.64	F 14.77	F 11.83	F 5.18	3.62	F 18.77	8.69
VANO 12	13.20	14.00	831.83	424.14	1374.59	781 81	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	3.27	F 18.77	7.85
VANO 12	14.40	15 00	734.22	399.46	1320.90	696.26	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.93	F 18.77	7.02
VANO 12	14.40	16 00	717 28	399.46	1320 90	679 32	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.58	F 18.77	6.20
VANO 12	15.60	17.00	620.74	375.01	1269.15	593.70	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.52	F 18.77	6.05
VANO 12	16.80	18 00	525.30	350.79	1219 34	508.01	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.18	F 18.77	5.24
VANO 12	18.00	19.00	430.99	326.79	1171.47	422 27	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.85	F 18.77	4.43
VANO 12	19.20	20 00	489.77	177.07	1125.64	336.48	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.52	F 18.77	3.64
VANO 12	19.20	21.00	489.77	177.07	1125 64	336.48	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.72	F 18.77	4.13
VANO 12	20.40	22.00	567.43	166.70	1081.97	250.65	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.72	F 18.77	4.13
VANO 12	21.60	23.00	646.40	156.32	1042.99	164.79	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.00	F 18.77	4.79
VANO 12	22.80	24.00	726.69	145.95	1007 26	78 92	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.27	F 18.77	5.46
VANO 12	24.00	25 00	399.83	135.57	1006.77	6 97	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.13
VANO 12	24.00	26 00	399.83	135 57	1006 77	6 97	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.41	F 18.77	3.37
VANO 12	25.20	27 00	711.62	187 04	1043.81	92.85	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.41	F 18.77	3.37
VANO 12	26.40	28 00	631.31	164 70	1082.99	178.73	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.50	F 18.77	6.01
VANO 12	27.60	29 00	552.32	142.63	1124.32	264.58	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.22	F 18.77	5.33
VANO 12	28.80	30 00	474.65	120.83	1167.80	350 41	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.94	F 18.77	4.66
VANO 12	28.80	31 00	474.65	120 83	1167.80	350.41	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.67	F 18.77	4.01
VANO 12	30.00	32 00	441 60	111.38	1213.43	436.20	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.67	F 18.77	4.01
VANO 12	31.20	33 00	535 90	124 89	1261.10	521 94	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.55	F 18.77	3.73
VANO 12	32.40	34 00	631.32	143.44	1310 72	607.63	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.83	F 18.77	4.52
VANO 12	33.60	35 00	727 84	163.77	1362.27	693.25	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.22	F 18.77	5.33
VANO 12	33.60	36 00	727 84	163 77	1362 27	693.25	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.14
VANO 12	34.80	37 00	825.43	184 39	1415.77	778 80	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.14
VANO 12	36.00	38.00	924.05	205.23	1471.21	864.27	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.90	F 18.77	6.97
VANO 12	37.20	39 00	1023.67	226.30	1528.58	949 65	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	12.69	F 14.77	F 11.83	F 5.18	3.25	F 18.77	7.80
VANO 12	38.40	40.00	1124.25	247.59	1587.90	1034.94	11.10	F 15.07	F 16.83	10.93	F 9.04	F 10.50	F 14.77	13.68	F 14.77	F 11.83	F 5.18	3.60	F 18.77	8.64
VANO 12	38.40	41.00	1124 25	247.59	1587.90	1034.94	11.10	F 15.07	F 16.83	10.93	F 9.04	F 10.50	F 14.77	13.68	F 14.77	F 11.83	F 5.18	3.95	F 18.77	9.49
VANO 12	39.60	42 00	1225.73	269.50	1649.16	1120.12	12.25	F 15.07	F 16.83	11.69	F 9.04	F 10.50	F 14.77	14.66	F 14.77	F 11.83	F 5.18	3.95	F 18.77	9.49
VANO 12	40.80	43 00	1328.09	292.13	1712.37	1205.20	13.41	F 15.07	F 16.83	12.45	F 9.04	F 10.50	15.65	15.65	F 14.77	12.04	F 5.18	4.31	F 18.77	10.34
VANO 12	42.00	44.00	1431 26	314.99	1777.51	1290.17	14.56	F 15.07	F 16.83	13.22	F 9.04	F 10.50	16.64	16.64	F 14.77	12.77	F 5.18	4.67	F 18.77	11.21
VANO 12	43.20	45.00	1535.21	338.08	1844.59	1375.02	15.72	15.72	F 16.83	13.99	F 9.04	F 10.50	17.63	17.63	F 14.77	13.51	5.40	5.40	F 18.77	12.08
VANO 12	43.20	46.00	1535.21	338.08	1844.59	1375.02	15.72	15.72	F 16.83	13.99	F 9.04	F 10.50	17.63	17.63	F 14.77	13.51	5.40	5.40	F 18.77	12.96
VANO 12	44.40	47.00	1639.87	361.39	1913.61	1459.75	15.86	15.86	F 16.83	14.76	F 9.04	F 10.50	18.63	18.63	F 14.77	14.25	5.77	5.77	F 18.77	12.96
VANO 12	45.60	48.00	1745.20	384.93	1984.58	1544.35	16.00	16.00	F 16.83	15.53	9.46	F 10.50	19.63	19.63	15.00	15.00	6.14	6.14	F 18.77	13.84
VANO 12	46.80	49.00	1851.13	408.69	2057.49	1628.82	16.15	16.15	F 16.83	16.31	9.91	F 10.50	20.63	20.63	15.75	15.75	6.51	6.51	F 18.77	14.73
																				15.62

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC COV	SEC S.PILA
I	20 008	24.9687
ys	1 495	1 754
yi	2 505	2 246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADC DE ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	15.4	15.4
V 2-3	16.6	16.6
V 4-5	17.9	17.9
V 6-8	17.1	17.1
V 8-21	17.0	17.0
V 22	16.4	16.4

LOSA SUP JUNTO A ALMA

MAXIMO	C. EXT As	C. INT As
V 1	16.9	16.9
V 2-3	19.2	19.2
V 4-5	19.8	19.8
V 6-8	19.5	19.5
V 8-21	18.9	18.9
V 22	17.4	17.4

LOSA SUP EN CENTRO DE CAJON

MAXIMO	C. EXT As	C. INT As
V 1	9.0	10.5
V 2-3	10.4	10.5
V 4-5	11.1	11.1
V 6-8	10.9	10.9
V 8-21	11.1	11.1
V 22	10.0	10.5

LOSA INF JUNTO AL ALMA

MAXIMO	C. EXT As	C. INT As
V 1	22.8	22.8
V 2-3	25.5	25.5
V 4-5	26.4	26.4
V 6-8	25.8	25.8
V 8-21	25.0	25.0
V 22	23.2	23.2

LOSA INF EN CENTRO CAJÓN

MAXIMO	C. EXT As	C. INT As
V 1	16.2	16.2
V 2-3	18.3	18.3
V 4-5	19.0	19.0
V 6-8	18.6	18.6
V 8-21	18.1	18.1
V 22	16.6	16.6

VOLADIZOS ZONA EXTERIOR

MAXIMO	C. EXT As	C. INT As
V 1	7.8	7.8
V 2-3	8.4	8.4
V 4-5	8.8	8.8
V 6-8	8.5	8.5
V 8-21	8.3	8.3
V 22	7.8	7.8

VOLADIZOS JUNTO ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	18.8	18.7
V 2-3	20.2	20.2
V 4-5	21.1	21.1
V 6-8	20.3	20.3
V 8-21	20.0	20.0
V 22	18.8	18.6

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As
VANO 13	0.00	1 00	2316 53	710 45	2174 48	1715 93	16.42	16 42	18.70	18.70	10 45 F	10.50	24.84	24.84	17.90	17.90	8.15	8.15
VANO 13	1.20	2 00	1801 53	683 29	2099.85	1631.58	16.27	16.27	F 16.83	16.41	10 00 F	10.50	20.74	20.74	15.85	15.85	6.34	6.34
VANO 13	2.40	3 00	1698 44	656.36	2027.14	1547 10	16.12	16.12	F 16.83	15 64	9.56 F	10.50	19.74	19.74	15.11	15.11	5.97	5.97
VANO 13	3.60	4 00	1605 64	629 66	1956 37	1462 50	15.98	15.98	F 16.83	14.86	9.12 F	10.50	18.74	18.74	F 14.77	14.36	5.65	5.65
VANO 13	4.80	5 00	1513 50	603.18	1887 51	1377.76	15.84	15.84	F 16.83	14.09	F 9.04 F	10.50	17.75	17.75	F 14.77	13.62	5.32	5.32
VANO 13	4.80	6 00	1513 50	603 18	1887 51	1377.76	15 84	15 84	F 16.83	14 09	F 9.04 F	10.50	17 75	17.75	F 14.77	13.62	5.32	5.32
VANO 13	6.00	7 00	1422 07	576 92	1820 59	1292 91	14.68 F	15 07	F 16.83	13 33	F 9.04 F	10 50	16.75	16.75	F 14.77	12.88	F 5.18	5.00
VANO 13	7.20	8 00	1331 41	550 89	1755 59	1207 93	13 53 F	15.07	F 16.83	12.56	F 9.04 F	10 50	15 76	15 76	F 14.77	12 14	F 5.18	4.68
VANO 13	8.40	9 00	1232 18	525.09	1692.52	1122 85	12 37 F	15.07	F 16.83	11 80	F 9.04 F	10 50	14 78	14.78	F 14.77 F	11.83	F 5.18	4.33
VANO 13	9.60	10 00	1130 68	499 51	1631.37	1037.65	11 23 F	15 07	F 16 83	11 04	F 9.04 F	10 50	F 14.77	13.79	F 14.77 F	11.83	F 5.18	3.98
VANO 13	9.60	11 00	1130 68	499.51	1631 37	1037.65	11 23 F	15 07	F 16 83	11 04	F 9.04 F	10 50	F 14 77	13.79	F 14.77 F	11.83	F 5.18	3.98
VANO 13	10.80	12 00	1030 10	474 16	1572.15	952 36	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77	12 81	F 14.77 F	11.83	F 5.18	3.82
VANO 13	12.00	13 00	930 46	449 04	1514.85	866.97	F 10.15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77	11.83	F 14.77 F	11.83	F 5.18	3.27
VANO 13	13.20	14 00	831 83	424 14	1459 49	781 49	F 10.15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.93
VANO 13	14.40	15 00	734 22	399 46	1406 04	695.94	F 10.15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.58
VANO 13	14.40	16 00	717 28	399.46	1406 04	678 99	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.52
VANO 13	15.60	17 00	620 74	375 01	1354.53	593.36	F 10.15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.18
VANO 13	16.80	18 00	525 30	350 79	1304 94	507 67	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	1.85
VANO 13	18.00	19 00	430 99	326 79	1257.27	421 92	F 10.15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	1.52
VANO 13	19.20	20 00	489 77	177 07	1211 64	336.13	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	1.72
VANO 13	19.20	21 00	489 77	177 07	1211 64	336.13	F 10.15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	1.72
VANO 13	20.40	22 00	567 43	166 70	1168 13	250 29	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.00
VANO 13	21.60	23 00	646 40	156 32	1126 77	164 43	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.27
VANO 13	22.80	24 00	726 69	145 95	1087 53	78 55	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.56
VANO 13	24.00	25 00	399 83	135 57	1050 43	7.36	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	1.41
VANO 13	24.00	26 00	399.83	135 57	1050.43	7.36	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	1.41
VANO 13	25.20	27 00	711 62	187 04	1053 00	93 23	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.50
VANO 13	26.40	28 00	631.31	164.70	1090 94	179 11	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.22
VANO 13	27.60	29 00	552 32	142 63	1132.14	264 97	F 10.15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	1.94
VANO 13	28.80	30 00	474.65	120.83	1175 47	350 80	F 10.15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	1.67
VANO 13	28.80	31 00	474 65	120 83	1175.47	350 80	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	1.67
VANO 13	30.00	32 00	441 60	111 38	1220 94	436 60	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	1.55
VANO 13	31.20	33 00	535 90	124 89	1268.43	522.35	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	1.89
VANO 13	32.40	34 00	631 32	143.44	1317.86	608 04	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.22
VANO 13	33.60	35 00	727.84	163.77	1369.20	693 67	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.56
VANO 13	33.60	36 00	727 84	163 77	1369.20	693 67	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.56
VANO 13	34.80	37 00	825.43	184 39	1422.48	779.22	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	2.90
VANO 13	36.00	38 00	924 05	205 23	1477 68	864 70	F 10 15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77 F	11 83	F 14.77 F	11.83	F 5.18	3.25
VANO 13	37.20	39 00	1023 67	226 30	1534 81	950 09	F 10.15 F	15 07	F 16 83 F	10.50	F 9.04 F	10 50	F 14 77	12 71	F 14.77 F	11.83	F 5.18	3.60
VANO 13	38.40	40 00	1124.25	247 59	1593.86	1035.38	11.12 F	15.07	F 16 83	10.95	F 9.04 F	10 50	F 14 77	13.69	F 14.77 F	11.83	F 5.18	3.95
VANO 13	38.40	41 00	1124.25	247 59	1593.86	1035 38	11.12 F	15 07	F 16 83	10.95	F 9.04 F	10 50	F 14 77	13.69	F 14.77 F	11.83	F 5.18	3.95
VANO 13	39.60	42 00	1225.73	269.50	1654.84	1120.57	12 27 F	15.07	F 16 83	11.71	F 9.04 F	10 50	F 14 77	14.68	F 14.77 F	11.83	F 5.18	4.31
VANO 13	40.80	43 00	1328 09	292.13	1717.75	1205.65	13 42 F	15 07	F 16 83	12 47	F 9.04 F	10 50	15.66	15.66	F 14.77	12.05	F 5.18	4.67
VANO 13	42.00	44 00	1431.26	314.99	1782 58	1290 62	14 58 F	15 07	F 16 83	13 23	F 9.04 F	10 50	16.65	16.65	F 14.77	12.79	F 5.18	5.03
VANO 13	43.20	45 00	1535.21	338.08	1849.34	1375 47	15.73	15.73	F 16 83	14 00	F 9.04 F	10 50	17.65	17.65	F 14.77	13.53	5.40	5.40
VANO 13	43.20	46 00	1535.21	338 08	1849.34	1375.47	15.73	15.73	F 16 83	14 00	F 9.04 F	10 50	17.65	17 65	F 14.77	13.53	5.40	5.40
VANO 13	44.40	47.00	1639.87	361.39	1918 03	1460.21	15 87	15.87	F 16 83	14.77	F 9.04 F	10 50	18.64	18.64	F 14.77	14.27	5.77	5.77
VANO 13	45.60	48 00	1745 20	384 93	1988 64	1544 81	16 01	16 01	F 16 83	15 54	9.47 F	10 50	19.64	19.64	15.01	15.01	6.14	6.14
VANO 13	46.80	49.00	1851.13	408 69	2061.18	1629.29	16 16	16.16	F 16.83	16.32	9.91 F	10.50	20.64	20.64	15.76	15.76	6.51	6.51
VANO 14	0.00	1 00	2316 53	710 45	2235.21	1721.92	16.61	16.61	18.70	18.70	10 59	10.59	24.84	24.84	17.90	17.90	8.15	8.15
VANO 14	1.20	2 00	1801 53	683.29	2160.26	1637 58	16.46	16.46	F 16.83	16.58	10 14 F	10.50	20.92	20.92	16.02	16.02	6.34	6.34
VANO 14	2.40	3 00	1698 44	656.36	2087.24	1553.11	16.31	16 31	F 16.83	15 80	9 70 F	10.50	19.92	19 92	15.27	15.27	5.97	5.97
VANO 14	3.60	4 00	1605 64	629.66	2016.14	1468.51	16.17	16.17	F 16.83	15.03	9.26 F	10.50	18.92	18.92	F 14.77	14.52	5.65	5.65
VANO 14	4.80	5.00	1513.50	603.18	1946.97	1383.78	16.03	16.03	F 16.83	14.26	F 9.04 F	10.50	17.93	17.93	F 14.77	13.78	5.32	5.32
VANO 14	4.80	6 00	1513.50	603.18	1946.97	1383.78	16 03	16.03	F 16.83	14.26	F 9.04 F	10.50	17.93	17.93	F 14.77	13.78	5.32	5.32
VANO 14	6.00	7.00	1422.07	576.92	1879.73	1298.93	14.87 F	15 07	F 16.83	13.49	F 9.04 F	10.50	16.93	16.93	F 14.77	13.04	F 5.18	5.00
VANO 14	7.20	8 00	1331.41	550.89	1814.42	1213.96	13.72 F	15.07	F 16.83	12 72	F 9.04 F	10.50	15.94	15.94	F 14.77	12.31	F 5.18	4.68
VANO 14	8.40	9 00	1232.18	525.09	1751.04	1128 88	12.57 F	15.07	F 16.83	11.96	F 9.04 F	10.50	14.96	14.96	F 14.77 F	11.83	F 5.18	4.33
VANO 14	9.60	10 00	1130 68	499.51	1689.58	1043.69	11.42 F	15.07	F 16.83	11.20	F 9.04 F	10.50	F 14.77	13.97	F 14.77 F	11.83	F 5.18	3.98
VANO 14	9.60	11 00	1130 68	499.51	1689.58	1043 69	11.42 F	15.07	F 16.83	11.20	F 9.04 F	10.50	F 14.77	13.97	F 14.77 F	11.83	F 5.18	3.98
VANO 14	10.80	12 00	1030.10	474.16	1630.05	958.40	10.27 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77	12.99	F 14.77 F	11.83	F 5.18	3.62
VANO 14	12.00	13.00	930.46	449.04	1572.46	873.01	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77	12.01	F 14.77 F	11.83	F 5.18	3.27
VANO 14	13.20	14.00	831.83	424.14	1516.78	787.54	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.93
VANO 14	14.40	15.00	734.22	399.46	1463.04	701.99	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.58
VANO 14	14.40	16.00	717.28	399.46	1463.04	685.05	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.52
VANO 14	15.60	17.00	620.74	375.01	1411.23	599.42	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.18
VANO 14	16.80	18.00	525.30	350.79	1361.34	513.73	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.85
VANO 14	18.00	19.00	430.99	326.79	1313.38	427.98	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.52
VANO 14	19.20	20.00	489.77	177.07	1267.45	342.19	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.72
VANO 14	19.20	21.00	489.77	177.07	1267.45	342.19	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.72
VANO 14	20.40	22.00	567.43	166.70	1223.66	256.36	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.00
VANO 14	21.60	23.00	646.40	156.32	1182.00	170.50	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.27
VANO 14	22.80	24.00	726.69	145.95	1142.48	84.63	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.56
VANO 14	24.00	25.00	399.83	135.57	1105.09	2.42	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.41
VANO 14	24.00	26.00	399.83	135.57	1105.09	2.42	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.41
VANO 14	25.20	27.00	711.62	187.04	1077.35	88.01	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.50
VANO 14	26.40	28.00	631.31	164.70	1069.15	173.03	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.22
VANO 14	27.60	29.00	552.32	142.63	1100.17	258.89	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.94
VANO 14	28.80	30.00	474.65	120.83	1139.29	344.72	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.67
VANO 14	28.80	31.00	474.65	120.83	1139.29	344.72	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.67
VANO 14	30.00	32.00	441.60	111.38	1181.32	430.51	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.55
VANO 14	31.20	33.00	535.90	124.89	1225.64	516.26	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	1.89
VANO 14	32.40	34.00	631.32	143.44	1271.91	601.95	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.22
VANO 14	33.60	35.00	727.84	163.77	1320.10	687.58	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.56
VANO 14	33.60	36.00	727.84	163.77	1320.10	687.58	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.56
VANO 14	34.80	37.00	825.43	184.39	1371.34	773.13	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	2.90
VANO 14	36.00	38.00	924.05	205.23	1426.35	858.61	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77 F	11.83	F 14.77 F	11.83	F 5.18	3.25
VANO 14	37.20	39.00	1023.67	226.30	1483.29	944.00	F 10.15 F	15.07	F 16.83 F	10.50	F 9.04 F	10.50	F 14.77	12.55	F 14.77 F	11.83	F 5.18	3.60
VANO 14	38.40	40.00	1124.25	247.59	1542.16	1029.29	10.94 F	15.07	F 16.83	10.80	F 9.04 F	10.50	F 14.77	13.53	F 14.77 F	11.83	F 5.18	3.95
VANO 14	38.40	41.00	1124.25	247.59	1542.16	1029.29	10.94 F	15.07	F 16.83	10.80	F 9.04 F	10.50	F 14.77	13.53	F 14.77 F	11.83	F 5.18	3.95
VANO 14	39.60	42.00	1225.73	269.50	1602.95	1114.48	12.09 F	15.07	F 16.83	11.55	F 9.04 F	10.50	F 14.77	14.51	F 14.77 F	11.83	F 5.18	4.31
VANO 14	40.80	43.00	1328.09	292.13	1665.68	1199.57	13.24 F	15.07	F 16.83	12.32	F 9.04 F	10.50	15.50	15.50	F 14.77	11.90	F 5.18	4.67
VANO 14	42.00	44.00	1431.26	314.99	1730.33	1284.54	14.40 F	15.07	F 16.83	13.08	F 9.04 F	10.50	16.49	16.49	F 14.77	12.64	F 5.18	5.03
VANO 14	43.20	45.00	1535.21	338.08	1796.91	1369.40	15.55	15.55	F 16.83	13.85	F 9.04 F	10.50	17.48	17.48	F 14.77	13.38	5.40	5.40
VANO 14	43.20	46.00	1535.21	338.08	1796.91	1369.40	15.55	15.55	F 16.83	13.85	F 9.04 F	10.50	17.48	17.48	F 14.77	13.38	5.40	5.40
VANO 14	44.40	47.00	1639.87	361.39	1865.41	1454.13	15.69	15.69	F 16.83	14.62	F 9.04 F	10.50	18.47	18.47	F 14.77	14.12	5.77	5.77
VANO 14	45.60	48.00	1745.20	384.93	1935.85	1538.74	15.83	15.83	F 16.83	15.39	9.34 F	10.50	19.47	19.47	14.86	14.86	6.14	6.14
VANO 14	46.80	49.00	1851.13	408.69	2008.21	1623.22	15.98	15.98	F 16.83	16.17	9.79 F	10.50	20.47	20.47	15.61	15.61	6.51	6.51

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

ARMADC DE ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	15.4	15.4
V 2-3	16.6	16.6
V 4-5	17.9	17.9
V 6-8	17.1	17.1
V 8-21	17.0	17.0
V 22	16.4	16.4

LOSA SUP JUNTO A ALMA

MAXIMO	C. EXT As	C. INT As
V 1	16.9	16.9
V 2-3	19.2	19.2
V 4-5	19.8	19.8
V 6-8	19.5	19.5
V 8-21	18.9	18.9
V 22	17.4	17.4

LOSA SUP EN CENTRO DE CAJON

MAXIMO	C. EXT As	C. INT As
V 1	9.0	10.5
V 2-3	10.4	10.5
V 4-5	11.1	11.1
V 6-8	10.9	10.9
V 8-21	11.1	11.1
V 22	10.0	10.5

LOSA INF JUNTO AL ALMA

MAXIMO	C. EXT As	C. INT As
V 1	22.8	22.8
V 2-3	25.5	25.5
V 4-5	26.4	26.4
V 6-8	25.8	25.8
V 8-21	25.0	25.0
V 22	23.2	23.2

LOSA INF EN CENTRO CAJÓN

MAXIMO	C. EXT As	C. INT As
V 1	16.2	16.2
V 2-3	18.3	18.3
V 4-5	19.0	19.0
V 6-8	18.6	18.6
V 8-21	18.1	18.1
V 22	16.6	16.6

VOLADIZOS ZONA EXTERIOR

MAXIMO	C. EXT As	C. INT As
V 1	7.8	7.8
V 2-3	8.4	8.4
V 4-5	8.8	8.8
V 6-8	8.5	8.5
V 8-21	8.3	8.3
V 22	7.8	7.8

VOLADIZOS JUNTO ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	18.8	18.7
V 2-3	20.2	20.2
V 4-5	21.1	21.1
V 6-8	20.3	20.3
V 8-21	20.0	20.0
V 22	18.6	18.6

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con		ALMAS C. EXT As		ALMAS C. INT As		LOSA SUP JUNTO A ALMA C. EXT As		LOSA SUP JUNTO A ALMA C. INT As		LOSA SUP EN CENTRO DE CAJON C. EXT As		LOSA SUP EN CENTRO DE CAJON C. INT As		LOSA INF JUNTO AL ALMA C. EXT As		LOSA INF JUNTO AL ALMA C. INT As		LOSA INF EN CENTRO CAJÓN C. EXT As		LOSA INF EN CENTRO CAJÓN C. INT As		VOLADIZOS ZONA EXTERIOR C. EXT As		VOLADIZOS ZONA EXTERIOR C. INT As		VOLADIZOS JUNTO ALMAS C. EXT As		VOLADIZOS JUNTO ALMAS C. INT As
[illegible]																																		
VANO 15	0.00	1.00	2316.53	710.45	2323.20	1715.51		16.72		16.72		18.70		18.70		10.75		10.75		24.84		24.84		17.90		17.90		8.15		8.15		19.55		19.55
VANO 15	1.20	2.00	1801.53	683.29	2247.92	1631.17		16.56		16.56	F	16.83		16.71		10.30	F	10.50		21.04		21.04		16.15		16.15		6.34		6.34	F	18.77		15.20
VANO 15	2.40	3.00	1698.44	656.36	2174.57	1546.70		16.41		16.41	F	16.83		15.93		9.85	F	10.50		20.04		20.04		15.40		15.40		5.97		5.97	F	18.77		14.33
VANO 15	3.60	4.00	1605.64	629.66	2103.15	1462.10		16.27		16.27	F	16.83		15.16		9.41	F	10.50		19.04		19.04	F	14.77		14.66		5.65		5.65	F	18.77		13.55
VANO 15	4.80	5.00	1513.50	603.18	2033.65	1377.38		16.13		16.13	F	16.83		14.39	F	9.04	F	10.50		18.04		18.04	F	14.77		13.91		5.32		5.32	F	18.77		12.77
VANO 15	4.80	6.00	1513.50	603.18	2033.65	1377.38		16.13		16.13	F	16.83		14.39	F	9.04	F	10.50		18.04		18.04	F	14.77		13.91		5.32		5.32	F	18.77		12.77
VANO 15	6.00	7.00	1422.07	576.92	1966.08	1292.53		14.97	F	15.07	F	16.83		13.62	F	9.04	F	10.50		17.05		17.05	F	14.77		13.17	F	5.18		5.00	F	18.77		12.00
VANO 15	7.20	8.00	1331.41	550.89	1900.44	1207.57		13.82	F	15.07	F	16.83		12.85	F	9.04	F	10.50		16.05		16.05	F	14.77		12.44	F	5.18		4.68	F	18.77		11.24
VANO 15	8.40	9.00	1232.18	525.09	1836.73	1122.49		12.66	F	15.07	F	16.83		12.09	F	9.04	F	10.50		15.07		15.07	F	14.77	F	11.83	F	5.18		4.33	F	18.77		10.40
VANO 15	9.60	10.00	1130.68	499.51	1774.94	1037.30		11.51	F	15.07	F	16.83		11.33	F	9.04	F	10.50	F	14.77		14.08	F	14.77	F	11.83	F	5.18		3.98	F	18.77		9.54
VANO 15	9.60	11.00	1130.68	499.51	1774.94	1037.30		11.51	F	15.07	F	16.83		11.33	F	9.04	F	10.50	F	14.77		14.08	F	14.77	F	11.83	F	5.18		3.98	F	18.77		9.54
VANO 15	10.80	12.00	1030.10	474.16	1715.08	952.02		10.37	F	15.07	F	16.83		10.57	F	9.04	F	10.50	F	14.77		13.10	F	14.77	F	11.83	F	5.18		3.62	F	18.77		8.69
VANO 15	12.00	13.00	930.46	449.04	1657.14	866.64	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.12	F	14.77	F	11.83	F	5.18		3.27	F	18.77		7.85
VANO 15	13.20	14.00	831.83	424.14	1601.13	781.17	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.93	F	18.77		7.02
VANO 15	14.40	15.00	734.22	399.46	1547.05	695.63	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.58	F	18.77		6.20
VANO 15	14.40	16.00	717.28	399.46	1547.05	678.68	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.52	F	18.77		6.05
VANO 15	15.60	17.00	620.74	375.01	1494.90	593.06	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.18	F	18.77		5.24
VANO 15	16.80	18.00	525.30	350.79	1444.67	507.38	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.85	F	18.77		4.43
VANO 15	18.00	19.00	430.99	326.79	1396.37	421.64	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.52	F	18.77		3.64
VANO 15	19.20	20.00	489.77	177.07	1350.10	335.85	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.72	F	18.77		4.13
VANO 15	19.20	21.00	489.77	177.07	1350.10	335.85	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.72	F	18.77		4.13
VANO 15	20.40	22.00	567.43	166.70	1305.97	250.03	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.00	F	18.77		4.79
VANO 15	21.60	23.00	646.40	156.32	1263.97	164.17	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.27	F	18.77		5.46
VANO 15	22.80	24.00	726.69	145.95	1224.10	78.30	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.56	F	18.77		6.13
VANO 15	24.00	25.00	399.83	135.57	1186.36	7.60	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.41	F	18.77		3.37
VANO 15	24.00	26.00	399.83	135.57	1186.36	7.60	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.41	F	18.77		3.37
VANO 15	25.20	27.00	711.62	187.04	1150.76	94.38	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.50	F	18.77		6.01
VANO 15	26.40	28.00	631.31	164.70	1128.16	181.15	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.22	F	18.77		5.33
VANO 15	27.60	29.00	552.32	142.63	1111.63	267.91	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.94	F	18.77		4.66
VANO 15	28.80	30.00	474.65	120.83	1108.84	351.01	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.67	F	18.77		4.01
VANO 15	28.80	31.00	474.65	120.83	1108.84	351.01	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.67	F	18.77		4.01
VANO 15	30.00	32.00	441.60	111.38	1143.86	436.80	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.55	F	18.77		3.73
VANO 15	31.20	33.00	535.90	124.89	1180.92	522.54	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.89	F	18.77		4.52
VANO 15	32.40	34.00	631.32	143.44	1224.70	608.23	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.22	F	18.77		5.33
VANO 15	33.60	35.00	727.84	163.77	1271.98	693.85	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.56	F	18.77		6.14
VANO 15	33.60	36.00	727.84	163.77	1271.98	693.85	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.56	F	18.77		6.14
VANO 15	34.80	37.00	825.43	184.39	1321.25	779.40	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.90	F	18.77		6.97
VANO 15	36.00	38.00	924.05	205.23	1372.43	864.87	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		3.25	F	18.77		7.80
VANO 15	37.20	39.00	1023.67	226.30	1425.55	950.25	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.49	F	14.77	F	11.83	F	5.18		3.60	F	18.77		8.64
VANO 15	38.40	40.00	1124.25	247.59	1480.59	1035.54		10.89	F	15.07	F	16.83		10.72	F	9.04	F	10.50	F	14.77		13.46	F	14.77	F	11.83	F	5.18		3.95	F	18.77		9.49
VANO 15	38.40	41.00	1124.25	247.59	1480.59	1035.54		10.89	F	15.07	F	16.83		10.72	F	9.04	F	10.50	F	14.77		13.46	F	14.77	F	11.83	F	5.18		3.95	F	18.77		9.49
VANO 15	39.60	42.00	1225.73	269.50	1537.82	1120.73		12.04	F	15.07	F	16.83		11.47	F	9.04	F	10.50	F	14.77		14.44	F	14.77	F	11.83	F	5.18		4.31	F	18.77		10.34
VANO 15	40.80	43.00	1328.09	292.13	1597.31	1205.81		13.18	F	15.07	F	16.83		12.22	F	9.04	F	10.50		15.42		15.42	F	14.77	F	11.83	F	5.18		4.67	F	18.77		11.21
VANO 15	42.00	44.00	1431.26	314.99	1658.72	1290.78		14.33	F	15.07	F	16.83		12.98	F	9.04	F	10.50		16.40		16.40	F	14.77		12.54	F	5.18		5.03	F	18.77		12.08
VANO 15	43.20	45.00	1535.21	338.08	1722.07	1375.63		15.48		15.48	F	16.83		13.74	F	9.04	F	10.50		17.39		17.39	F	14.77		13.27		5.40		5.40	F	18.77		12.96
VANO 15	43.20	46.00	1535.21	338.08	1722.07	1375.63		15.48		15.48	F	16.83		13.74	F	9.04	F	10.50		17.39		17.39	F	14.77		13.27		5.40		5.40	F	18.77		12.96
VANO 15	44.40	47.00	1639.87	361.39	1787.33	1460.36		15.61		15.61	F	16.83		14.51	F	9.04	F	10.50		18.38		18.38	F	14.77		14.00		5.77		5.77	F	18.77		13.84
VANO 15	45.60	48.00	1745.20	384.93	1854.53	1544.96		15.74		15.74	F	16.83		15.27		9.20	F	10.50		19.37		19.37	F	14.77		14.74		6.14		6.14	F	18.77		14.73
VANO 15	46.80	49.00	1851.13	408.69	1923.65	1629.44		15.88		15.88	F	16.83		16.04		9.64	F	10.50		20.36		20.36		15.48		15.48		6.51		6.51	F	18.77		15.62
[illegible]																																		
VANO 16	0.00	1.00	2316.53	710.45	2288.31	1719.36		16.69		16.69		18.70		18.70		10.69		10.69		24.84		24.84		17.90		17.90		8.15		8.15		19.55		19.55
VANO 16	1.20	2.00	1801.53	683.29	2213.51	1635.02		16.54		16.54	F	16.83		16.67		10.24	F	10.50		21.01		21.01		16.11		16.11		6.34		6.34	F	18.77		15.20
VANO 16	2.40	3.00	1698.44	656.36	2140.63	1550.55		16.39		16.39	F	16.83		15.89		9.80	F	10.50		20.01		20.01		15.36		15.36		5.97		5.97	F	18.77		14.33
VANO 16	3.60	4.00	1605.64	629.66	2069.66	1465.96		16.25		16.25	F	16.83		15.12		9.36	F	10.50		19.01		19.01	F	14.77		14.62		5.65		5.65	F	18.77		13.55
VANO 16	4.80	5.00	1513.50	603.18	2000.60	1381.23		16.11		16.11	F	16.83		14.35	F	9.04	F	10.50		18.01		18.01	F	14.77		13.87		5.32		5.32	F	18.77		12.77
VANO 16	4.80	6.00	1513.50	603.18	2000.60	1381.23		16.11		16.11	F	16.83		14.35	F	9.04	F	10.50		18.01		18.01	F	14.77		13.87		5.32		5.32	F	18.77		12.77
VANO 16	6.00	7.00	1422.07	576.92	1933.46	1296.38		14.95	F	15.07	F	16.83		13.58	F	9.04	F	10.50		17.02		17.02	F	14.77		13.13	F	5.18		5.00	F	18.77		12.00
VANO 16	7.20	8.00	1331.41	550.89	1868.23	1211.42		13.80	F	15.07	F	16.83		12.82	F	9.04	F	10.50		16.03		16.03	F	14.77		12.40	F	5.18		4.68	F	18.77		11.24
VANO 16	8.40	9.00	1232.18	525.09	1804.91	1126.34		12.64	F	15.07	F	16.83		12.05	F	9.04	F	10.50		15.04		15.04	F	14.77	F	11.83	F	5.18		4.33	F	18.77		10.40
VANO 16	9.60	10.00	1130.68	499.51	1743.51	1041.16		11.50	F	15.07	F	16.83		11.29	F	9.04	F	10.50	F	14.77		14.05	F	14.77	F	11.83	F	5.18		3.98	F	18.77		9.54
VANO 16	9.60	11.00	1130.68	499.51	1743.51	1041.16		11.50	F	15.07	F	16.83		11.29	F	9.04	F	10.50	F	14.77		14.05	F	14.77	F	11.83	F	5.18		3.98	F	18.77		9.54
VANO 16	10.80	12.00	1030.10	474.16	1684.02	955.88		10.35	F	15.07	F	16.83		10.54	F	9.04	F	10.50	F	14.77		13.07	F	14.77	F	11.83	F	5.18		3.62	F	18.77		8.69
VANO 16	12.00	13.00	930.46	449.04	1626.44	870.50	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.09	F	14.77	F	11.83	F	5.18		3.27	F	18.77		7.85
VANO 16	13.20	14.00	831.83	424.14	1570.78	785.04	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.93	F	18.77		7.02
VANO 16	14.40	15.00	734.22	399.46	1517.04	699.49	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.58	F	18.77		6.20
VANO 16	14.40	16.00	717.28	399.46	1517.04	682.55	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.52	F	18.77		6.05
VANO 16	15.60	17.00	620.74	375.01	1465.20	596.93	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.18	F	18.77		5.24
VANO 16	16.80	18.00	525.30	350.79	1415.28	511.25	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.85	F	18.77		4.43
VANO 16	18.00	19.00	430.99	326.79	1367.27	425.51	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.52	F	18.77		3.64
VANO 16	19.20	20.00	489.77	177.07	1321.28	339.73	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.72	F	18.77		4.13
VANO 16	19.20	21.00	489.77	177.07	1321.28	339.73	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.72	F	18.77		4.13
VANO 16	20.40	22.00	567.43	166.70	1277.41	253.91	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.00	F	18.77		4.79
VANO 16	21.60	23.00	646.40	156.32	1235.66	168.06	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.27	F	18.77		5.46
VANO 16	22.80	24.00	726.69	145.95	1196.02	82.19	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.56	F	18.77		6.13
VANO 16	24.00	25.00	399.83	135.57	1158.51	4.12	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.41	F	18.77		3.37
VANO 16	24.00	26.00	399.83	135.57	1158.51	4.12	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.41	F	18.77		3.37
VANO 16	25.20	27.00	711.62	187.04	1127.24	90.46	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.50	F	18.77		6.01
VANO 16	26.40	28.00	631.31	164.70	1110.79	177.22	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.22	F	18.77		5.33
VANO 16	27.60	29.00	552.32	142.63	1112.91	261.29	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.94	F	18.77		4.66
VANO 16	28.80	30.00	474.65	120.83	1149.42	347.11	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.67	F	18.77		4.01
VANO 16	28.80	31.00	474.65	120.83	1149.42	347.11	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.67	F	18.77		4.01
VANO 16	30.00	32.00	441.60	111.38	1191.05	432.89	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.55	F	18.77		3.73
VANO 16	31.20	33.00	535.90	124.89	1234.69	518.63	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.89	F	18.77		4.52
VANO 16	32.40	34.00	631.32	143.44	1280.24	604.32	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.22	F	18.77		5.33
VANO 16	33.60	35.00	727.84	163.77	1327.71	689.94	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.56	F	18.77		6.14
VANO 16	33.60	36.00	727.84	163.77	1327.71	689.94	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.56	F	18.77		6.14
VANO 16	34.80	37.00	825.43	184.39	1377.43	775.48	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.90	F	18.77		6.97
VANO 16	36.00	38.00	924.05	205.23	1429.32	860.95	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		3.25	F	18.77		7.80
VANO 16	37.20	39.00	1023.67	226.30	1483.12	946.33	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.57	F	14.77	F	11.83	F	5.18		3.60	F	18.77		8.64
VANO 16	38.40	40.00	1124.25	247.59	1538.83	1031.62		10.97	F	15.07	F	16.83		10.81	F	9.04	F	10.50	F	14.77		13.54	F	14.77	F	11.83	F	5.18		3.95	F	18.77		9.49
VANO 16	38.40	41.00	1124.25	247.59	1538.83	1031.62		10.97	F	15.07	F	16.83		10.81	F	9.04	F	10.50	F	14.77		13.54	F	14.77	F	11.83	F	5.18		3.95	F	18.77		9.49
VANO 16	39.60	42.00	1225.73	269.50	1596.46	1116.80		12.11	F	15.07	F	16.83		11.56	F	9.04	F	10.50	F	14.77		14.52	F	14.77	F	11.83	F	5.18		4.31	F	18.77		10.34
VANO 16	40.80	43.00	1328.09	292.13	1656.00	1201.88		13.25	F	15.07	F	16.83		12.31	F	9.04	F	10.50		15.50		15.50	F	14.77		11.90	F	5.18		4.67	F	18.77		11.21
VANO 16	42.00	44.00	1431.26	314.99	1717.46	1286.85		14.40	F	15.07	F	16.83		13.07	F	9.04	F	10.50		16.48		16.48	F	14.77		12.63	F	5.18		5.03	F	18.77		12.08
VANO 16	43.20	45.00	1535.21	338.08	1783.23	1371.70		15.55		15.55	F	16.83		13.84	F	9.04	F	10.50		17.47		17.47	F	14.77		13.36		5.40		5.40	F	18.77		12.96
VANO 16	43.20	46.00	1535.21	338.08	1783.23	1371.70		15.55		15.55	F	16.83		13.84	F	9.04	F	10.50		17.47		17.47	F	14.77		13.36		5.40		5.40	F	18.77		12.96
VANO 16	44.40	47.00	1639.87	361.39	1851.61	1456.43		15.69		15.69	F	16.83		14.61	F	9.04	F	10.50		18.47		18.47	F	14.77		14.10		5.77		5.77	F	18.77		13.84
VANO 16	45.60	48.00	1745.20	384.93	1921.91	1541.03		15.83		15.83	F	16.83		15.38		9.32	F	10.50		19.47		19.47		14.85		14.85		6.14		6.14	F	18.77		14.73
VANO 16	46.80	49.00	1851.13	408.69	1994.11	1625.51		15.98		15.98	F	16.83		16.16		9.77	F	10.50		20.47		20.47		15.60		15.60		6.51		6.51	F	18.77		15.62
[illegible]																																		

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC S PILA
I	20.008	24.9687
ys	1.495	1.754
yi	2.505	2.246

PRETENSA Exterior		Lanzamient	Lanz. Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28.5	28.5	28.5
% TESADO	0.8	0.75	75%
% PERDIDA	0.16	0.2	20%
COEF. SEG	1	1	1.0

MAXIMO	ARMADO DE ALMAS C. EXT As	ARMADO DE ALMAS C. INT As	LOSA SUP JUNTO A ALMA C. EXT As	LOSA SUP JUNTO A ALMA C. INT As	LOSA SUP EN CENTRO DE CAJON C. EXT As	LOSA SUP EN CENTRO DE CAJON C. INT As	LOSA INF JUNTO AL ALMA C. EXT As	LOSA INF JUNTO AL ALMA C. INT As	LOSA INF EN CENTRO CAJÓN C. EXT As	LOSA INF EN CENTRO CAJÓN C. INT As	VOLADIZOS ZONA EXTERIOR C. EXT As	VOLADIZOS ZONA EXTERIOR C. INT As	VOLADIZOS JUNTO ALMAS C. EXT As	VOLADIZOS JUNTO ALMAS C. INT As
V 1	15.4	15.4	16.9	16.9	9.0	10.5	22.8	22.8	16.2	16.2	7.8	7.8	18.8	18.7
V 2-3	16.6	16.6	19.2	19.2	10.4	10.5	25.5	25.5	18.3	18.3	8.4	8.4	20.2	20.2
V 4-5	17.9	17.9	19.8	19.8	11.1	11.1	26.4	26.4	19.0	19.0	8.8	8.8	21.1	21.1
V 6-8	17.1	17.1	19.5	19.5	10.9	10.9	25.8	25.8	18.6	18.6	8.5	8.5	20.3	20.3
V 8-21	17.0	17.0	18.9	18.9	11.1	11.1	25.0	25.0	18.1	18.1	8.3	8.3	20.0	20.0
V 22	16.4	16.4	17.4	17.4	10.0	10.5	23.2	23.2	16.6	16.6	7.8	7.8	18.8	18.6

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	Almas C. EXT As	Almas C. INT As	Losa sup junto alma C. EXT As	Losa sup junto alma C. INT As	Losa sup centro cajón C. EXT As	Losa sup centro cajón C. INT As	Losa inf junto alma C. EXT As	Losa inf junto alma C. INT As	Losa inf centro cajón C. EXT As	Losa inf centro cajón C. INT As	Voladizos zona exterior C. EXT As	Voladizos zona exterior C. INT As	Voladizos junto almas C. EXT As	Voladizos junto almas C. INT As
[illegible]																				
VANO 17	0.00	1.00	2316.53	710.45	2280.43	1717.77	16.66	16.66	18.70	18.70	10.67	10.67	24.84	24.84	17.90	17.90	8.15	8.15	19.55	19.55
VANO 17	1.20	2.00	1801.53	683.29	2205.69	1633.44	16.51	16.51	F 16.83	16.64	10.22	F 10.50	20.97	20.97	16.08	16.08	6.34	6.34	F 18.77	15.20
VANO 17	2.40	3.00	1698.44	656.36	2132.85	1548.97	16.36	16.36	F 16.83	15.87	9.78	F 10.50	19.97	19.97	15.33	15.33	5.97	5.97	F 18.77	14.33
VANO 17	3.60	4.00	1605.64	629.66	2061.92	1464.37	16.21	16.21	F 16.83	15.09	9.34	F 10.50	18.98	18.98	F 14.77	14.59	5.65	5.65	F 18.77	13.55
VANO 17	4.80	5.00	1513.50	603.18	1992.90	1379.65	16.07	16.07	F 16.83	14.32	F 9.04	F 10.50	17.98	17.98	F 14.77	13.85	5.32	5.32	F 18.77	12.77
VANO 17	4.80	6.00	1513.50	603.18	1992.90	1379.65	16.07	16.07	F 16.83	14.32	F 9.04	F 10.50	17.98	17.98	F 14.77	13.85	5.32	5.32	F 18.77	12.77
VANO 17	6.00	7.00	1422.07	576.92	1925.79	1294.80	14.92	F 15.07	F 16.83	13.55	F 9.04	F 10.50	16.99	16.99	F 14.77	13.11	F 5.18	5.00	F 18.77	12.00
VANO 17	7.20	8.00	1331.41	550.89	1860.59	1209.84	13.76	F 15.07	F 16.83	12.79	F 9.04	F 10.50	16.00	16.00	F 14.77	12.37	F 5.18	4.68	F 18.77	11.24
VANO 17	8.40	9.00	1232.18	525.09	1797.30	1124.77	12.61	F 15.07	F 16.83	12.03	F 9.04	F 10.50	15.01	15.01	F 14.77	F 11.83	F 5.18	4.33	F 18.77	10.40
VANO 17	9.60	10.00	1130.68	499.51	1735.91	1039.59	11.46	F 15.07	F 16.83	11.27	F 9.04	F 10.50	F 14.77	14.02	F 14.77	F 11.83	F 5.18	3.98	F 18.77	9.54
VANO 17	9.60	11.00	1130.68	499.51	1735.91	1039.59	11.46	F 15.07	F 16.83	11.27	F 9.04	F 10.50	F 14.77	14.02	F 14.77	F 11.83	F 5.18	3.98	F 18.77	9.54
VANO 17	10.80	12.00	1030.10	474.16	1676.44	954.31	10.31	F 15.07	F 16.83	10.51	F 9.04	F 10.50	F 14.77	13.04	F 14.77	F 11.83	F 5.18	3.62	F 18.77	8.69
VANO 17	12.00	13.00	930.46	449.04	1618.87	868.93	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	12.06	F 14.77	F 11.83	F 5.18	3.27	F 18.77	7.85
VANO 17	13.20	14.00	831.83	424.14	1563.22	783.47	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.93	F 18.77	7.02
VANO 17	14.40	15.00	734.22	399.46	1509.47	697.93	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.58	F 18.77	6.20
VANO 17	14.40	16.00	717.28	399.46	1509.47	680.99	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.52	F 18.77	6.05
VANO 17	15.60	17.00	620.74	375.01	1457.63	595.37	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.18	F 18.77	5.24
VANO 17	16.80	18.00	525.30	350.79	1407.70	509.69	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.85	F 18.77	4.43
VANO 17	18.00	19.00	430.99	326.79	1359.68	423.96	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.52	F 18.77	3.64
VANO 17	19.20	20.00	489.77	177.07	1313.67	338.18	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.72	F 18.77	4.13
VANO 17	19.20	21.00	489.77	177.07	1313.67	338.18	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.72	F 18.77	4.13
VANO 17	20.40	22.00	567.43	166.70	1269.77	252.36	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.00	F 18.77	4.79
VANO 17	21.60	23.00	646.40	156.32	1227.99	166.51	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.27	F 18.77	5.46
VANO 17	22.80	24.00	726.69	145.95	1188.32	80.65	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.13
VANO 17	24.00	25.00	399.83	135.57	1150.79	5.23	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.41	F 18.77	3.37
VANO 17	24.00	26.00	399.83	135.57	1150.79	5.23	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.41	F 18.77	3.37
VANO 17	25.20	27.00	711.62	187.04	1123.33	92.00	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.50	F 18.77	6.01
VANO 17	26.40	28.00	631.31	164.70	1106.88	178.76	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.22	F 18.77	5.33
VANO 17	27.60	29.00	552.32	142.63	1126.66	262.81	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.94	F 18.77	4.66
VANO 17	28.80	30.00	474.65	120.83	1159.72	348.63	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.67	F 18.77	4.01
VANO 17	28.80	31.00	474.65	120.83	1159.72	348.63	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.67	F 18.77	4.01
VANO 17	30.00	32.00	441.60	111.38	1199.69	434.41	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.55	F 18.77	3.73
VANO 17	31.20	33.00	535.90	124.89	1243.30	520.14	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.89	F 18.77	4.52
VANO 17	32.40	34.00	631.32	143.44	1288.82	605.82	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.22	F 18.77	5.33
VANO 17	33.60	35.00	727.84	163.77	1336.73	691.44	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.14
VANO 17	33.60	36.00	727.84	163.77	1336.73	691.44	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.14
VANO 17	34.80	37.00	825.43	184.39	1386.66	776.98	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.90	F 18.77	6.97
VANO 17	36.00	38.00	924.05	205.23	1438.50	862.45	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	3.25	F 18.77	7.80
VANO 17	37.20	39.00	1023.67	226.30	1492.24	947.82	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	12.60	F 14.77	F 11.83	F 5.18	3.60	F 18.77	8.64
VANO 17	38.40	40.00	1124.25	247.59	1547.90	1033.11	11.00	F 15.07	F 16.83	10.84	F 9.04	F 10.50	F 14.77	13.58	F 14.77	F 11.83	F 5.18	3.95	F 18.77	9.49
VANO 17	38.40	41.00	1124.25	247.59	1547.90	1033.11	11.00	F 15.07	F 16.83	10.84	F 9.04	F 10.50	F 14.77	13.58	F 14.77	F 11.83	F 5.18	3.95	F 18.77	9.49
VANO 17	39.60	42.00	1225.73	269.50	1607.06	1118.29	12.15	F 15.07	F 16.83	11.59	F 9.04	F 10.50	F 14.77	14.56	F 14.77	F 11.83	F 5.18	4.31	F 18.77	10.34
VANO 17	40.80	43.00	1328.09	292.13	1669.68	1203.36	13.30	F 15.07	F 16.83	12.35	F 9.04	F 10.50	15.54	15.54	F 14.77	11.94	F 5.18	4.67	F 18.77	11.21
VANO 17	42.00	44.00	1431.26	314.99	1734.20	1288.33	14.45	F 15.07	F 16.83	13.12	F 9.04	F 10.50	16.53	16.53	F 14.77	12.67	F 5.18	5.03	F 18.77	12.08
VANO 17	43.20	45.00	1535.21	338.08	1800.64	1373.18	15.61	15.61	F 16.83	13.88	F 9.04	F 10.50	17.52	17.52	F 14.77	13.41	5.40	5.40	F 18.77	12.96
VANO 17	43.20	46.00	1535.21	338.08	1800.64	1373.18	15.61	15.61	F 16.83	13.88	F 9.04	F 10.50	17.52	17.52	F 14.77	13.41	5.40	5.40	F 18.77	12.96
VANO 17	44.40	47.00	1639.87	361.39	1868.98	1457.90	15.74	15.74	F 16.83	14.65	F 9.04	F 10.50	18.52	18.52	F 14.77	14.15	5.77	5.77	F 18.77	13.84
VANO 17	45.60	48.00	1745.20	384.93	1939.24	1542.50	15.89	15.89	F 16.83	15.43	9.36	F 10.50	19.52	19.52	14.89	14.89	6.14	6.14	F 18.77	14.73
VANO 17	46.80	49.00	1851.13	408.69	2011.40	1626.97	16.03	16.03	F 16.83	16.20	9.81	F 10.50	20.52	20.52	15.64	15.64	6.51	6.51	F 18.77	15.62
[illegible]																				
VANO 18	0.00	1.00	2316.53	710.45	2247.68	1717.21	16.58	16.58	18.70	18.70	10.60	10.60	24.84	24.84	17.90	17.90	8.15	8.15	19.55	19.55
VANO 18	1.20	2.00	1801.53	683.29	2173.12	1632.87	16.43	16.43	F 16.83	16.57	10.15	F 10.50	20.90	20.90	16.01	16.01	6.34	6.34	F 18.77	15.20
VANO 18	2.40	3.00	1698.44	656.36	2100.46	1548.41	16.28	16.28	F 16.83	15.80	9.71	F 10.50	19.90	19.90	15.26	15.26	5.97	5.97	F 18.77	14.33
VANO 18	3.60	4.00	1605.64	629.66	2029.71	1463.81	16.14	16.14	F 16.83	15.02	9.27	F 10.50	18.90	18.90	F 14.77	14.52	5.65	5.65	F 18.77	13.55
VANO 18	4.80	5.00	1513.50	603.18	1960.85	1379.08	16.00	16.00	F 16.83	14.25	F 9.04	F 10.50	17.91	17.91	F 14.77	13.78	5.32	5.32	F 18.77	12.77
VANO 18	4.80	6.00	1513.50	603.18	1960.85	1379.08	16.00	16.00	F 16.83	14.25	F 9.04	F 10.50	17.91	17.91	F 14.77	13.78	5.32	5.32	F 18.77	12.77
VANO 18	6.00	7.00	1422.07	576.92	1893.90	1294.24	14.85	F 15.07	F 16.83	13.48	F 9.04	F 10.50	16.92	16.92	F 14.77	13.04	F 5.18	5.00	F 18.77	12.00
VANO 18	7.20	8.00	1331.41	550.89	1828.86	1209.28	13.69	F 15.07	F 16.83	12.72	F 9.04	F 10.50	15.93	15.93	F 14.77	12.30	F 5.18	4.68	F 18.77	11.24
VANO 18	8.40	9.00	1232.18	525.09	1765.71	1124.20	12.54	F 15.07	F 16.83	11.96	F 9.04	F 10.50	14.94	14.94	F 14.77	F 11.83	F 5.18	4.33	F 18.77	10.40
VANO 18	9.60	10.00	1130.68	499.51	1704.47	1039.02	11.39	F 15.07	F 16.83	11.20	F 9.04	F 10.50	F 14.77	13.95	F 14.77	F 11.83	F 5.18	3.98	F 18.77	9.54
VANO 18	9.60	11.00	1130.68	499.51	1704.47	1039.02	11.39	F 15.07	F 16.83	11.20	F 9.04	F 10.50	F 14.77	13.95	F 14.77	F 11.83	F 5.18	3.98	F 18.77	9.54
VANO 18	10.80	12.00	1030.10	474.16	1645.13	953.74	10.24	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	12.97	F 14.77	F 11.83	F 5.18	3.62	F 18.77	8.69
VANO 18	12.00	13.00	930.46	449.04	1587.70	868.37	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	11.99	F 14.77	F 11.83	F 5.18	3.27	F 18.77	7.85
VANO 18	13.20	14.00	831.83	424.14	1532.17	782.91	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.93	F 18.77	7.02
VANO 18	14.40	15.00	734.22	399.46	1478.54	697.37	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.58	F 18.77	6.20
VANO 18	14.40	16.00	717.28	399.46	1478.54	680.42	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.52	F 18.77	6.05
VANO 18	15.60	17.00	620.74	375.01	1426.81	594.81	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.18	F 18.77	5.24
VANO 18	16.80	18.00	525.30	350.79	1376.98	509.13	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.85	F 18.77	4.43
VANO 18	18.00	19.00	430.99	326.79	1329.06	423.40	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.52	F 18.77	3.64
VANO 18	19.20	20.00	489.77	177.07	1283.15	337.62	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.72	F 18.77	4.13
VANO 18	19.20	21.00	489.77	177.07	1283.15	337.62	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.72	F 18.77	4.13
VANO 18	20.40	22.00	567.43	166.70	1239.33	251.80	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.00	F 18.77	4.79
VANO 18	21.60	23.00	646.40	156.32	1197.63	165.96	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.27	F 18.77	5.46
VANO 18	22.80	24.00	726.69	145.95	1158.03	80.10	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.13
VANO 18	24.00	25.00	399.83	135.57	1120.54	5.78	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.41	F 18.77	3.37
VANO 18	24.00	26.00	399.83	135.57	1120.54	5.78	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.41	F 18.77	3.37
VANO 18	25.20	27.00	711.62	187.04	1096.81	92.56	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.50	F 18.77	6.01
VANO 18	26.40	28.00	631.31	164.70	1111.62	177.51	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.22	F 18.77	5.33
VANO 18	27.60	29.00	552.32	142.63	1143.18	263.36	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.94	F 18.77	4.66
VANO 18	28.80	30.00	474.65	120.83	1182.62	349.17	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.67	F 18.77	4.01
VANO 18	28.80	31.00	474.65	120.83	1182.62	349.17	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.67	F 18.77	4.01
VANO 18	30.00	32.00	441.60	111.38	1224.62	434.95	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.55	F 18.77	3.73
VANO 18	31.20	33.00	535.90	124.89	1268.84	520.69	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	1.89	F 18.77	4.52
VANO 18	32.40	34.00	631.32	143.44	1314.96	606.36	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.22	F 18.77	5.33
VANO 18	33.60	35.00	727.84	163.77	1365.87	691.98	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.14
VANO 18	33.60	36.00	727.84	163.77	1365.87	691.98	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.56	F 18.77	6.14
VANO 18	34.80	37.00	825.43	184.39	1418.94	777.52	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	2.90	F 18.77	6.97
VANO 18	36.00	38.00	924.05	205.23	1473.91	862.98	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	F 11.83	F 14.77	F 11.83	F 5.18	3.25	F 18.77	7.80
VANO 18	37.20	39.00	1023.67	226.30	1530.79	948.36	F 10.15	F 15.07	F 16.83	F 10.50	F 9.04	F 10.50	F 14.77	12.69	F 14.77	F 11.83	F 5.18	3.60	F 18.77	8.64
VANO 18	38.40	40.00	1124.25	247.59	1589.56	1033.64	11.09	F 15.07	F 16.83	10.93	F 9.04	F 10.50	F 14.77	13.67	F 14.77	F 11.83	F 5.18	3.95	F 18.77	9.49
VANO 18	38.40	41.00	1124.25	247.59	1589.56	1033.64	11.09	F 15.07	F 16.83	10.93	F 9.04	F 10.50	F 14.77	13.67	F 14.77	F 11.83	F 5.18	3.95	F 18.77	9.49
VANO 18	39.60	42.00	1225.73	269.50	1650.24	1118.82	12.24	F 15.07	F 16.83	11.68	F 9.04	F 10.50	F 14.77	14.65	F 14.77	F 11.83	F 5.18	4.31	F 18.77	10.34
VANO 18	40.80	43.00	1328.09	292.13	1712.83	1203.89	13.39	F 15.07	F 16.83	12.44	F 9.04	F 10.50	15.64	15.64	F 14.77	12.03	F 5.18	4.67	F 18.77	11.21
VANO 18	42.00	44.00	1431.26	314.99	1777.31	1288.86	14.54	F 15.07	F 16.83	13.21	F 9.04	F 10.50	16.63	16.63	F 14.77	12.76	F 5.18	5.03	F 18.77	12.08
VANO 18	43.20	45.00	1535.21	338.08	1843.70	1373.70	15.70	15.70	F 16.83	13.97	F 9.04	F 10.50	17.62	17.62	F 14.77	13.50	5.40	5.40	F 18.77	12.96
VANO 18	43.20	46.00	1535.21	338.08	1843.70	1373.70	15.70	15.70	F 16.83	13.97	F 9.04	F 10.50	17.62	17.62	F 14.77	13.50	5.40	5.40	F 18.77	12.96
VANO 18	44.40	47.00	1639.87	361.39	1911.99	1458.43	15.84	15.84	F 16.83	14.74	F 9.04	F 10.50	18.61	18.61	F 14.77	14.24	5.77	5.77	F 18.77	13.84
VANO 18	45.60	48.00	1745.20	384.93	1982.18	1543.03	15.98	15.98	F 16.83	15.52	9.45	F 10.50	19.61	19.61	14.99	14.99	6.14	6.14	F 18.77	14.73
VANO 18	46.80	49.00	1851.13	408.69	2054.28	1627.50	16.13	16.13	F 16.83	16.29	9.89	F 10.50	20.61	20.61	15.73	15.73	6.51	6.51	F 18.77	15.62

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS

	SEC CDV	SEC S PILA
I	20 008	24 9687
ys	1 495	1 754
yi	2 505	2 246

PRETENSA Exterior		Lanzamient	Lanz Adic
Nº TENDON	6	14	Variables
Nº CORDON	25	19	19
ROTURA TE	28 5	28 5	28 5
% TESADO	0 8	0 75	75%
% PERDIDA	0 16	0 2	20%
COEF SEG	1	1	1 0

ARMADO DE ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	15 4	15 4
V 2-3	16 6	16 6
V 4-5	17 9	17 9
V 6-8	17 1	17 1
V 8-21	17 0	17 0
V 22	16 4	16 4

LOSA SUP JUNTO A ALMA

MAXIMO	C. EXT As	C. INT As
V 1	16 9	16 9
V 2-3	19 2	19 2
V 4-5	19 8	19 8
V 6-8	19 5	19 5
V 8-21	18 9	18 9
V 22	17 4	17 4

LOSA SUP EN CENTRO DE CAJON

MAXIMO	C. EXT As	C. INT As
V 1	9 0	10 5
V 2-3	10 4	10 5
V 4-5	11 1	11 1
V 6-8	10 9	10 9
V 8-21	11 1	11 1
V 22	10 0	10 5

LOSA INF JUNTO AL ALMA

MAXIMO	C. EXT As	C. INT As
V 1	22 8	22 8
V 2-3	25 5	25 5
V 4-5	26 4	26 4
V 6-8	25 8	25 8
V 8-21	25 0	25 0
V 22	23 2	23 2

LOSA INF EN CENTRO CAJÓN

MAXIMO	C. EXT As	C. INT As
V 1	16 2	16 2
V 2-3	18 3	18 3
V 4-5	19 0	19 0
V 6-8	18 6	18 6
V 8-21	18 1	18 1
V 22	16 6	16 6

VOLADIZOS ZONA EXTERIOR

MAXIMO	C. EXT As	C. INT As
V 1	7 8	7 8
V 2-3	8 4	8 4
V 4-5	8 8	8 8
V 6-8	8 5	8 5
V 8-21	8 3	8 3
V 22	7 8	7 8

VOLADIZOS JUNTO ALMAS

MAXIMO	C. EXT As	C. INT As
V 1	18 8	18 7
V 2-3	20 2	20 2
V 4-5	21 1	21 1
V 6-8	20 3	20 3
V 8-21	20 0	20 0
V 22	18 8	18 6

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As	C. EXT As	C. INT As
[illegible]	[illegible]	[illegible]	2486 24	698 95	2734 82	1256 42	17 86	17 86	19 83	19 83	11 06	11 06	26 44	26 44	18 06	18 06	8 76	8 76	21 06	21 06
VANO 19	0.00	1 00	2316 53	710 45	2110 42	1719 54	16 33	16 33	18 70	18 70	10 33 F	10 50	24 84	24 84	17 90	17 90	8 15	8 15	19 55	19 55
VANO 19	1.20	2 00	1801 53	683 29	2036 10	1635 21	16 18	16 18	F 16 83	16 31	9 88 F	10 50	20 65	20 65	15 75	15 75	6 34	6 34	F 18 77	15 20
VANO 19	2.40	3 00	1698 44	656 36	1963 69	1550 74	16 04	16 04	F 16 83	15 54	9 44 F	10 50	19 65	19 65	15 00	15 00	5 97	5 97	F 18 77	14 33
VANO 19	3.60	4 00	1605 64	629 66	1893 18	1466 14	15 89	15 89	F 16 83	14 76	F 9 04 F	10 50	18 65	18 65	F 14 77	14 26	5 65	5 65	F 18 77	13 55
VANO 19	4.80	5 00	1513 50	603 18	1824 57	1381 42	15 75	15 75	F 16 83	13 99	F 9 04 F	10 50	17 66	17 66	F 14 77	13 52	5 32	5 32	F 18 77	12 77
VANO 19	4.80	6 00	1513 50	603 18	1824 57	1381 42	15 75	15 75	F 16 83	13 99	F 9 04 F	10 50	17 66	17 66	F 14 77	13 52	5 32	5 32	F 18 77	12 77
VANO 19	6.00	7 00	1422 07	576 92	1757 87	1296 57	14 60 F	15 07	F 16 83	13 23	F 9 04 F	10 50	16 66	16 66	F 14 77	12 78	F 5 18	5 00	F 18 77	12 00
VANO 19	7.20	8 00	1331 41	550 89	1693 08	1211 61	13 44 F	15 07	F 16 83	12 46	F 9 04 F	10 50	15 67	15 67	F 14 77	12 04	F 5 18	4 68	F 18 77	11 24
VANO 19	8.40	9 00	1232 18	525 09	1630 18	1126 54	12 29 F	15 07	F 16 83	11 70	F 9 04 F	10 50	F 14 77	14 69	F 14 77 F	11 83	F 5 18	4 33	F 18 77	10 40
VANO 19	9.60	10 00	1130 68	499 51	1569 19	1041 36	11 14 F	15 07	F 16 83	10 94	F 9 04 F	10 50	F 14 77	13 70	F 14 77 F	11 83	F 5 18	3 98	F 18 77	9 54
VANO 19	9.60	11 00	1130 68	499 51	1569 19	1041 36	11 14 F	15 07	F 16 83	10 94	F 9 04 F	10 50	F 14 77	13 70	F 14 77 F	11 83	F 5 18	3 98	F 18 77	9 54
VANO 19	10.80	12 00	1030 10	474 16	1510 11	956 08	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77	12 72	F 14 77 F	11 83	F 5 18	3 62	F 18 77	8 69
VANO 19	12.00	13 00	930 46	449 04	1452 92	870 71	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	3 27	F 18 77	7 85
VANO 19	13.20	14 00	831 83	424 14	1397 64	785 24	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 93	F 18 77	7 02
VANO 19	14.40	15 00	734 22	399 46	1345 69	699 70	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 58	F 18 77	6 20
VANO 19	14.40	16 00	717 28	399 46	1345 69	682 76	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 52	F 18 77	6 05
VANO 19	15.60	17 00	620 74	375 01	1297 38	597 15	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 18	F 18 77	5 24
VANO 19	16.80	18 00	525 30	350 79	1250 96	511 47	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 85	F 18 77	4 43
VANO 19	18.00	19 00	430 99	326 79	1206 45	425 74	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 52	F 18 77	3 64
VANO 19	19.20	20 00	489 77	177 07	1164 64	339 96	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 72	F 18 77	4 13
VANO 19	19.20	21 00	489 77	177 07	1164 64	339 96	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 72	F 18 77	4 13
VANO 19	20.40	22 00	567 43	166 70	1127 08	254 15	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 00	F 18 77	4 79
VANO 19	21.60	23 00	646 40	156 32	1096 10	168 30	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 27	F 18 77	5 46
VANO 19	22.80	24 00	726 69	145 95	1088 45	83 36	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 56	F 18 77	6 13
VANO 19	24.00	25 00	399 83	135 57	1115 73	3 98	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 41	F 18 77	3 37
VANO 19	24.00	26 00	399 83	135 57	1115 73	3 98	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 41	F 18 77	3 37
VANO 19	25.20	27 00	711 62	187 04	1152 95	89 30	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 50	F 18 77	6 01
VANO 19	26.40	28 00	631 31	164 70	1192 27	175 16	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 22	F 18 77	5 33
VANO 19	27.60	29 00	552 32	142 63	1233 71	261 01	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 94	F 18 77	4 66
VANO 19	28.80	30 00	474 65	120 83	1277 25	346 82	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 67	F 18 77	4 01
VANO 19	28.80	31 00	474 65	120 83	1277 25	346 82	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 67	F 18 77	4 01
VANO 19	30.00	32 00	441 60	111 38	1322 90	432 60	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 55	F 18 77	3 73
VANO 19	31.20	33 00	535 90	124 89	1370 55	518 33	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 89	F 18 77	4 52
VANO 19	32.40	34 00	631 32	143 44	1420 11	604 01	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 22	F 18 77	5 33
VANO 19	33.60	35 00	727 84	163 77	1471 57	689 62	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 56	F 18 77	6 14
VANO 19	33.60	36 00	727 84	163 77	1471 57	689 62	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 56	F 18 77	6 14
VANO 19	34.80	37 00	825 43	184 39	1524 94	775 16	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 90	F 18 77	6 97
VANO 19	36.00	38 00	924 05	205 23	1580 21	860 62	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77	11 90	F 14 77 F	11 83	F 5 18	3 25	F 18 77	7 80
VANO 19	37.20	39 00	1023 67	226 30	1637 38	945 99	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77	12 88	F 14 77 F	11 83	F 5 18	3 60	F 18 77	8 64
VANO 19	38.40	40 00	1124 25	247 59	1696 46	1031 27	11 28 F	15 07	F 16 83	11 12	F 9 04 F	10 50	F 14 77	13 86	F 14 77 F	11 83	F 5 18	3 95	F 18 77	9 49
VANO 19	38.40	41 00	1124 25	247 59	1696 46	1031 27	11 28 F	15 07	F 16 83	11 12	F 9 04 F	10 50	F 14 77	13 86	F 14 77 F	11 83	F 5 18	3 95	F 18 77	9 49
VANO 19	39.60	42 00	1225 73	269 50	1757 44	1116 45	12 43 F	15 07	F 16 83	11 88	F 9 04 F	10 50	14 84	14 84	F 14 77 F	11 83	F 5 18	4 31	F 18 77	10 34
VANO 19	40.80	43 00	1328 09	292 13	1820 33	1201 52	13 58 F	15 07	F 16 83	12 64	F 9 04 F	10 50	15 83	15 83	F 14 77	12 23	F 5 18	4 67	F 18 77	11 21
VANO 19	42.00	44 00	1431 26	314 99	1885 12	1286 49	14 73 F	15 07	F 16 83	13 41	F 9 04 F	10 50	16 82	16 82	F 14 77	12 97	F 5 18	5 03	F 18 77	12 08
VANO 19	43.20	45 00	1535 21	338 08	1951 81	1371 33	15 89	15 89	F 16 83	14 18	F 9 04 F	10 50	17 81	17 81	F 14 77	13 70	5 40	5 40	F 18 77	12 96
VANO 19	43.20	46 00	1535 21	338 08	1951 81	1371 33	15 89	15 89	F 16 83	14 18	F 9 04 F	10 50	17 81	17 81	F 14 77	13 70	5 40	5 40	F 18 77	12 96
VANO 19	44.40	47 00	1639 87	361 39	2020 41	1456 05	16 03	16 03	F 16 83	14 95	9 22 F	10 50	18 81	18 81	F 14 77	14 44	5 77	5 77	F 18 77	13 84
VANO 19	45.60	48 00	1745 20	384 93	2090 91	1540 65	16 17	16 17	F 16 83	15 72	9 66 F	10 50	19 80	19 80	15 19	15 19	6 14	6 14	F 18 77	14 73
VANO 19	46.80	49 00	1851 13	408 69	2163 31	1625 12	16 32	16 32	F 16 83	16 50	10 11 F	10 50	20 80	20 80	15 94	15 94	6 51	6 51	F 18 77	15 62
VANO 19	48.00	50 00	2306 11	432 84	2237 62	1708 45	16 47	16 47	18 50	18 50	10 55	10 55	24 78	24 78	17 00	17 00	8 32	8 32	19 97	19 97
VANO 20	0.00	1 00	2308 18	418 89	1968 64	1715 72	16 00	16 00	18 04	18 04	10 03 F	10 50	24 16	24 16	17 25	17 25	8 12	8 12	19 48	19 48
VANO 20	1.20	2 00	1793 23	393 69	1896 11	1631 38	15 85	15 85	F 16 83	16 00	9 59 F	10 50	20 33	20 33	15 44	15 44	6 31	6 31	F 18 77	15 13
VANO 20	2.40	3 00	1687 35	369 93	1826 73	1546 90	15 71	15 71	F 16 83	15 23	9 15 F	10 50	19 33	19 33	F 14 77	14 70	5 94	5 94	F 18 77	14 24
VANO 20	3.60	4 00	1582 08	346 40	1759 25	1462 30	15 57	15 57	F 16 83	14 46	F 9 04 F	10 50	18 34	18 34	F 14 77	13 96	5 57	5 57	F 18 77	13 35
VANO 20	4.80	5 00	1477 47	323 10	1693 69	1377 57	15 44	15 44	F 16 83	13 70	F 9 04 F	10 50	17 35	17 35	F 14 77	13 22	5 20	5 20	F 18 77	12 47
VANO 20	4.80	6 00	1477 47	323 10	1693 69	1377 57	15 44	15 44	F 16 83	13 70	F 9 04 F	10 50	17 35	17 35	F 14 77	13 22	5 20	5 20	F 18 77	12 47
VANO 20	6.00	7 00	1373 58	300 01	1630 05	1292 72	14 29 F	15 07	F 16 83	12 94	F 9 04 F	10 50	16 37	16 37	F 14 77	12 49	F 5 18	4 83	F 18 77	11 59
VANO 20	7.20	8 00	1269 49	277 15	1568 31	1207 76	13 14 F	15 07	F 16 83	12 18	F 9 04 F	10 50	15 38	15 38	F 14 77 F	11 83	F 5 18	4 47	F 18 77	10 71
VANO 20	8.40	9 00	1167 19	254 54	1508 50	1122 68	12 00 F	15 07	F 16 83	11 42	F 9 04 F	10 50	F 14 77	14 40	F 14 77 F	11 83	F 5 18	4 11	F 18 77	9 85
VANO 20	9.60	10 00	1065 76	232 20	1450 66	1037 50	10 86 F	15 07	F 16 83	10 67	F 9 04 F	10 50	F 14 77	13 42	F 14 77 F	11 83	F 5 18	3 75	F 18 77	8 99
VANO 20	9.60	11 00	1065 76	232 20	1450 66	1037 50	10 86 F	15 07	F 16 83	10 67	F 9 04 F	10 50	F 14 77	13 42	F 14 77 F	11 83	F 5 18	3 75	F 18 77	8 99
VANO 20	10.80	12 00	965 23	210 50	1395 15	952 21	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77	12 45	F 14 77 F	11 83	F 5 18	3 40	F 18 77	8 15
VANO 20	12.00	13 00	865 66	189 50	1342 02	866 84	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	3 05	F 18 77	7 31
VANO 20	13.20	14 00	767 09	168 72	1290 81	781 37	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 70	F 18 77	6 47
VANO 20	14.40	15 00	669 55	149 06	1242 40	695 83	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 36	F 18 77	5 65
VANO 20	14.40	16 00	652 61	149 06	1242 40	678 88	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 30	F 18 77	5 51
VANO 20	15.60	17 00	556 13	135 09	1201 36	593 27	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 96	F 18 77	4 69
VANO 20	16.80	18 00	460 75	121 34	1162 24	507 59	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 62	F 18 77	3 89
VANO 20	18.00	19 00	366 50	107 81	1125 02	421 85	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 29	F 18 77	3 09
VANO 20	19.20	20 00	415 94	111 37	1089 83	336 07	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 46	F 18 77	3 51
VANO 20	19.20	21 00	415 94	111 37	1089 83	336 07	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 46	F 18 77	3 51
VANO 20	20.40	22 00	496 78	133 21	1090 04	252 92	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 75	F 18 77	4 19
VANO 20	21.60	23 00	578 93	155 32	1104 07	166 18	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 04	F 18 77	4 89
VANO 20	22.80	24 00	662 40	177 71	1129 43	79 41	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 33	F 18 77	5 59
VANO 20	24.00	25 00	338 74	200 37	1164 56	7 33	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 19	F 18 77	2 86
VANO 20	24.00	26 00	338 74	200 37	1164 56	7 33	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 19	F 18 77	2 86
VANO 20	25.20	27 00	646 53	135 02	1201 80	93 20	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 27	F 18 77	5 46
VANO 20	26 40	28 00	563 13	145 47	1241 15	179 06	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 98	F 18 77	4 75
VANO 20	27.60	29 00	481 05	155 92	1282 62	264 90	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 69	F 18 77	4 06
VANO 20	28.80	30 00	400 28	170 28	1326 21	350 72	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 41	F 18 77	3 38
VANO 20	28.80	31 00	400 28	170 28	1326 21	350 72	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 41	F 18 77	3 38
VANO 20	30.00	32 00	382 92	317 64	1371 92	436 50	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 35	F 18 77	3 23
VANO 20	31.20	33 00	477 23	341 66	1419 63	522 23	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	1 68	F 18 77	4 03
VANO 20	32.40	34 00	572 66	365 91	1469 26	607 90	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 01	F 18 77	4 83
VANO 20	33.60	35 00	669 20	390 38	1520 80	693 51	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 35	F 18 77	5 65
VANO 20	33.60	36 00	669 20	390 38	1520 80	693 51	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 35	F 18 77	5 65
VANO 20	34.80	37 00	766 79	415 08	1574 25	779 05	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77 F	11 83	F 14 77 F	11 83	F 5 18	2 70	F 18 77	6 47
VANO 20	36.00	38 00	865 42	439 99	1629 61	864 51	F 10 15 F	15 07	F 16 83 F	10 50	F 9 04 F	10 50	F 14 77	12 04	F 14 77 F	11 83	F 5 18	3 04	F 18 77	7 30
VANO 20	37.20	39 00	965 04	465 14	1686 89	949 88	10 28 F	15 07	F 16 83	10 50	F 9 04 F	10 50	F 14 77	13 02	F 14 77 F	11 83	F 5 18	3 39	F 18 77	8 14
VANO 20	38.40	40 00	1065 61	490 50	1746 07	1035 15	11 43 F	15 07	F 16 83	11 25	F 9 04 F	10 50	F 14 77	14 00	F 14 77 F	11 83	F 5 18	3 75	F 18 77	8 99
VANO 20	38.40	41 00	1065 61	490 50	1746 07	1035 15	11 43 F	15 07	F 16 83	11 25	F 9 04 F	10 50	F 14 77	14 00	F 14 77 F	11 83	F 5 18	3 75	F 18 77	8 99
VANO 20	39.60	42 00	1167 09	516 10	1807 17	1120 33	12 58 F	15 07	F 16 83	12 01	F 9 04 F	10 50	14 98	14 98	F 14 77 F	11 83	F 5 18	4 11	F 18 77	9 85
VANO 20	40.80	43 00	1269 43	541 91	1870 17	1205 40	13 73 F	15 07	F 16 83	12 77	F 9 04 F	10 50	15 97	15 97	F 14 77	12 36	F 5 18	4 47	F 18 77	10 71
VANO 20	42.00	44 00	1372 60	567 95	1935 09	1290 35	14 88 F	15 07	F 16 83	13 54	F 9 04 F	10 50	16 96	16 96	F 14 77	13 09	F 5 18	4 83	F 18 77	11 58
VANO 20	43.20	45 00	1476 52	594 21	2001 92	1375 19	16 04	16 04	F 16 83	14 31	F 9 04 F	10 50	17 95	17 95	F 14 77	13 83	5 19	5 19	F 18 77	12 46
VANO 20	43.20	46 00	1476 52	594 21	2001 92	1375 19	16 04	16 04	F 16 83	14 31	F 9 04 F	10 50	17 95	17 95	F 14 77	13 83	5 19	5 19	F 18 77	12 46
VANO 20	44.40	47 00	1581 17	620 70	2070 66	1459 91	16 18	16 18	F 16 83	15 08	9 34 F	10 50	18 95	18 95	F 14 77	14 57	5 56	5 56	F 18 77	13 34
VANO 20	45.60	48 00	1686 47	647 41	2141 31	1544 50	16 32	16 32	F 16 83	15 85	9 78 F	10 50	19 95	19 95	15 32	15 32	5 93	5 93	F 18 77	14 23
VANO 20	46.80	49 00	1792 38	674 34	2213 87	1628 96	16 47	16 47	F 16 83	16 63	10 22 F	10 50	20 95	20 95	16 07	16 07	6 30	6 30	F 18 77	15 13
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ARMDO DE SECCIÓN TRANSVERSAL. ESFUERZOS DE CÁLCULO

CARACTERISTICAS MECANICAS	SEC CDV	SEC S PILA	PRETENSA Exterior		Lanzamient	Lanz. Adic
			Nº TENDON	6	14	Variables
I	20 008	24 9687	Nº CORDON	25	19	19
ys	1 495	1 754	ROTURA TE	28 5	28 5	28 5
yi	2 505	2 246	% TESADO	0 8	0 75	75%
			% PERDIDA	0 16	0 2	20%
			COEF. SEG	1	1	1.0

MAXIMO	ARMADO DE ALMAS C. EXT As	ARMADO DE ALMAS C. INT As	LOSA SUP JUNTO A ALMA C. EXT As	LOSA SUP JUNTO A ALMA C. INT As	LOSA SUP EN CENTRO DE CAJON C. EXT As	LOSA SUP EN CENTRO DE CAJON C. INT As	LOSA INF JUNTO AL ALMA C. EXT As	LOSA INF JUNTO AL ALMA C. INT As	LOSA INF EN CENTRO CAJÓN C. EXT As	LOSA INF EN CENTRO CAJÓN C. INT As	VOLADIZOS ZONA EXTERIOR C. EXT As	VOLADIZOS ZONA EXTERIOR C. INT As	VOLADIZOS JUNTO ALMAS C. EXT As	VOLADIZOS JUNTO ALMAS C. INT As
V 1	15 4	15 4	16 9	16 9	9 0	10.5	22 8	22 8	16.2	16 2	7.8	7.8	18 8	18.7
V 2-3	16 6	16 6	19 2	19.2	10.4	10 5	25 5	25.5	18.3	18.3	8 4	8.4	20 2	20.2
V 4-5	17.9	17 9	19 8	19 8	11.1	11.1	26 4	26 4	19.0	19.0	8 8	8 8	21 1	21.1
V 6-8	17.1	17 1	19.5	19 5	10 9	10 9	25.8	25 8	18.6	18.6	8.5	8.5	20 3	20.3
V 8-21	17 0	17.0	18.9	18 9	11 1	11.1	25.0	25 0	18.1	18.1	8 3	8.3	20 0	20.0
V 22	16 4	16 4	17 4	17.4	10.0	10 5	23.2	23 2	16.6	16.6	7.8	7 8	18.8	18.6

	X	Nudo	Hipótesis max cortante Vd max	Td con	Hipótesis max torsor Td max	Vd con	ALMAS	C. EXT As		C. INT As	LOSA SUP JUNTO A ALMA	C. EXT As		C. INT As	LOSA SUP EN CENTRO DE CAJON	C. EXT As		C. INT As	LOSA INF JUNTO AL ALMA	C. EXT As		C. INT As	LOSA INF EN CENTRO CAJÓN	C. EXT As		C. INT As	VOLADIZOS ZONA EXTERIOR	C. EXT As		C. INT As	VOLADIZOS JUNTO ALMAS	C. EXT As		C. INT As
			2466.36	856.95	2734.92	1258.42		17.86		17.86		19.83		19.83		11.06		11.06		26.44		26.44		18.96		18.96		8.76		8.76		21.06		21.06
VANO 21	0.00	1.00	2295.31	303.03	1698.01	1721.99		15.52		15.52		17.71		17.71		9.50	F	10.50		23.80		23.80		16.92		16.92		8.07		8.07		19.37		19.37
VANO 21	1.20	2.00	1780.31	286.39	1634.34	1637.62		15.40		15.40	F	16.83		15.52		9.08	F	10.50		19.86		19.86		14.95		14.95		6.26		6.26	F	18.77		15.03
VANO 21	2.40	3.00	1674.38	269.99	1572.62	1553.13		15.27		15.27	F	16.83		14.76	F	9.04	F	10.50		18.88		18.88	F	14.77		14.23		5.89		5.89	F	18.77		14.13
VANO 21	3.60	4.00	1569.07	253.81	1512.87	1468.50		15.15		15.15	F	16.83		14.01	F	9.04	F	10.50		17.90		17.90	F	14.77		13.50		5.52		5.52	F	18.77		13.24
VANO 21	4.80	5.00	1464.42	237.86	1455.07	1383.75		15.03	F	15.07	F	16.83		13.26	F	9.04	F	10.50		16.93		16.93	F	14.77		12.78	F	5.18		5.15	F	18.77		12.36
VANO 21	4.80	6.00	1464.42	237.86	1455.07	1383.75		15.03	F	15.07	F	16.83		13.26	F	9.04	F	10.50		16.93		16.93	F	14.77		12.78	F	5.18		5.15	F	18.77		12.36
VANO 21	6.00	7.00	1360.51	222.14	1399.24	1298.88		13.90	F	15.07	F	16.83		12.51	F	9.04	F	10.50		15.96		15.96	F	14.77		12.07	F	5.18		4.79	F	18.77		11.48
VANO 21	7.20	8.00	1257.38	206.65	1345.36	1213.90		12.77	F	15.07	F	16.83		11.77	F	9.04	F	10.50		14.99		14.99	F	14.77	F	11.83	F	5.18		4.42	F	18.77		10.61
VANO 21	8.40	9.00	1155.08	196.47	1293.44	1128.80		11.64	F	15.07	F	16.83		11.03	F	9.04	F	10.50	F	14.77		14.03	F	14.77	F	11.83	F	5.18		4.06	F	18.77		9.75
VANO 21	9.60	10.00	1053.66	206.80	1243.48	1043.59		10.51	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		13.06	F	14.77	F	11.83	F	5.18		3.71	F	18.77		8.89
VANO 21	9.60	11.00	1053.66	206.80	1243.48	1043.59		10.51	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		13.06	F	14.77	F	11.83	F	5.18		3.71	F	18.77		8.89
VANO 21	10.80	12.00	953.16	217.13	1195.48	958.29	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.11	F	14.77	F	11.83	F	5.18		3.35	F	18.77		8.04
VANO 21	12.00	13.00	853.63	227.45	1162.21	852.42	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		3.00	F	18.77		7.20
VANO 21	13.20	14.00	755.10	237.78	1162.23	795.61	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.66	F	18.77		6.37
VANO 21	14.40	15.00	657.62	248.11	1164.98	709.15	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.31	F	18.77		5.55
VANO 21	14.40	16.00	640.68	248.11	1164.98	692.21	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.25	F	18.77		5.41
VANO 21	15.60	17.00	544.28	258.43	1169.74	605.67	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.91	F	18.77		4.59
VANO 21	16.80	18.00	448.99	268.76	1176.50	519.08	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.58	F	18.77		3.79
VANO 21	18.00	19.00	354.85	279.09	1188.15	432.44	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.25	F	18.77		2.99
VANO 21	19.20	20.00	390.69	368.44	1206.84	345.75	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.37	F	18.77		3.30
VANO 21	19.20	21.00	390.69	368.44	1206.84	345.75	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.37	F	18.77		3.30
VANO 21	20.40	22.00	468.48	375.14	1236.59	259.02	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.65	F	18.77		3.95
VANO 21	21.60	23.00	550.77	397.31	1268.51	172.27	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.94	F	18.77		4.65
VANO 21	22.80	24.00	634.38	419.76	1302.59	85.51	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.23	F	18.77		5.35
VANO 21	24.00	25.00	311.70	330.72	1338.84	3.64	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.10	F	18.77		2.63
VANO 21	24.00	26.00	311.70	330.72	1338.84	3.64	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.10	F	18.77		2.63
VANO 21	25.20	27.00	635.47	341.05	1377.24	87.22	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.24	F	18.77		5.36
VANO 21	26.40	28.00	552.24	361.32	1417.80	173.08	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.94	F	18.77		4.66
VANO 21	27.60	29.00	470.33	383.04	1460.53	258.91	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.65	F	18.77		3.97
VANO 21	28.80	30.00	390.28	372.03	1505.42	344.70	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.37	F	18.77		3.29
VANO 21	28.80	31.00	390.28	372.03	1505.42	344.70	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.37	F	18.77		3.29
VANO 21	30.00	32.00	355.65	560.21	1552.46	430.46	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.25	F	18.77		3.00
VANO 21	31.20	33.00	450.15	584.33	1601.57	516.16	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.58	F	18.77		3.80
VANO 21	32.40	34.00	545.77	608.68	1652.62	601.80	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.92	F	18.77		4.61
VANO 21	33.60	35.00	642.48	633.26	1705.63	687.38	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.26	F	18.77		5.42
VANO 21	33.60	36.00	642.48	633.26	1705.63	687.38	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.26	F	18.77		5.42
VANO 21	34.80	37.00	740.26	658.07	1760.59	772.87	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.60	F	18.77		6.25
VANO 21	36.00	38.00	839.06	683.11	1817.51	858.28	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.36	F	14.77	F	11.83	F	5.18		2.95	F	18.77		7.08
VANO 21	37.20	39.00	938.84	708.38	1876.37	943.60		10.59	F	15.07	F	16.83		10.84	F	9.04	F	10.50	F	14.77		13.34	F	14.77	F	11.83	F	5.18		3.30	F	18.77		7.92
VANO 21	38.40	40.00	1039.57	733.88	1937.19	1028.81		11.74	F	15.07	F	16.83		11.59	F	9.04	F	10.50	F	14.77		14.32	F	14.77	F	11.83	F	5.18		3.66	F	18.77		8.77
VANO 21	38.40	41.00	1039.57	733.88	1937.19	1028.81		11.74	F	15.07	F	16.83		11.59	F	9.04	F	10.50	F	14.77		14.32	F	14.77	F	11.83	F	5.18		3.66	F	18.77		8.77
VANO 21	39.60	42.00	1141.20	759.61	1999.96	1113.92		12.89	F	15.07	F	16.83		12.36	F	9.04	F	10.50		15.31		15.31	F	14.77		11.97	F	5.18		4.01	F	18.77		9.63
VANO 21	40.80	43.00	1243.68	785.57	2064.68	1198.92		14.05	F	15.07	F	16.83		13.12	F	9.04	F	10.50		16.30		16.30	F	14.77		12.71	F	5.18		4.37	F	18.77		10.50
VANO 21	42.00	44.00	1346.97	811.75	2131.36	1283.80		15.20		15.20	F	16.83		13.89	F	9.04	F	10.50		17.29		17.29	F	14.77		13.45	F	5.18		4.74	F	18.77		11.37
VANO 21	43.20	45.00	1451.01	838.17	2199.98	1368.55		16.36		16.36	F	16.83		14.66		9.28	F	10.50		18.29		18.29	F	14.77		14.19	F	5.18		5.10	F	18.77		12.25
VANO 21	43.20	46.00	1451.01	838.17	2199.98	1368.55		16.36		16.36	F	16.83		14.66		9.28	F	10.50		18.29		18.29	F	14.77		14.19	F	5.18		5.10	F	18.77		12.25
VANO 21	44.40	47.00	1555.74	864.82	2270.56	1453.17		16.50		16.50	F	16.83		15.43		9.72	F	10.50		19.29		19.29		14.93		14.93		5.47		5.47	F	18.77		13.13
VANO 21	45.60	48.00	1661.12	891.69	2343.09	1537.67		16.65		16.65	F	16.83		16.21		10.16	F	10.50		20.29		20.29		15.68		15.68		5.84		5.84	F	18.77		14.02
VANO 21	46.80	49.00	1767.08	918.80	2417.58	1622.02		16.80		16.80		16.99		16.99		10.61		10.61		21.29		21.29		16.43		16.43		6.22		6.22	F	18.77		14.91
VANO 21	48.00	50.00	2282.07	946.12	2464.01	1706.23		16.96		16.96		18.92		18.92		11.06		11.06		24.97		24.97		18.13		18.13		8.03		8.03		19.26		19.26
VANO 22	0.00	1.00	2209.25	452.93	1436.54	1777.55		16.38		16.38		17.38		17.38		9.17	F	10.50		23.23		23.23		16.61		16.61		7.77		7.77	F	18.77		18.65
VANO 22	0.98	2.00	1775.04	461.26	1424.01	1708.04		16.35		16.35	F	16.83		15.61	F	9.04	F	10.50		20.14		20.14		15.02		15.02		6.24		6.24	F	18.77		14.98
VANO 22	1.95	3.00	1688.21	469.59	1413.15	1638.41		16.33		16.33	F	16.83		15.07	F	9.04	F	10.50		19.42		19.42	F	14.77		14.51		5.94		5.94	F	18.77		14.25
VANO 22	2.93	4.00	1601.72	477.91	1403.95	1568.67		16.31		16.31	F	16.83		14.53	F	9.04	F	10.50		18.69		18.69	F	14.77		13.99		5.63		5.63	F	18.77		13.52
VANO 22	3.90	5.00	1515.59	486.24	1396.44	1498.82		16.30		16.30	F	16.83		14.00	F	9.04	F	10.50		17.97		17.97	F	14.77		13.48		5.33		5.33	F	18.77		12.79
VANO 22	3.90	6.00	1515.59	486.24	1396.44	1498.82		16.30		16.30	F	16.83		14.00	F	9.04	F	10.50		17.97		17.97	F	14.77		13.48		5.33		5.33	F	18.77		12.79
VANO 22	4.88	7.00	1429.87	494.57	1392.92	1428.85		15.45		15.45	F	16.83		13.47	F	9.04	F	10.50		17.26		17.26	F	14.77		12.98	F	5.18		5.03	F	18.77		12.07
VANO 22	5.85	8.00	1344.58	502.90	1391.06	1358.78		14.60	F	15.07	F	16.83		12.94	F	9.04	F	10.50		16.55		16.55	F	14.77		12.48	F	5.18		4.73	F	18.77		11.35
VANO 22	6.83	9.00	1259.74	511.23	1390.86	1288.59		13.76	F	15.07	F	16.83		12.42	F	9.04	F	10.50		15.84		15.84	F	14.77		11.98	F	5.16		4.43	F	18.77		10.63
VANO 22	7.80	10.00	1175.38	519.55	1392.33	1218.29		12.91	F	15.07	F	16.83		11.90	F	9.04	F	10.50		15.13		15.13	F	14.77	F	11.83	F	5.18		4.13	F	18.77		9.92
VANO 22	7.80	11.00	1175.38	519.55	1392.33	1218.29		12.91	F	15.07	F	16.83		11.90	F	9.04	F	10.50		15.13		15.13	F	14.77	F	11.83	F	5.18		4.13	F	18.77		9.92
VANO 22	8.78	12.00	1091.54	527.88	1405.78	1147.89		12.09	F	15.07	F	16.83		11.40	F	9.04	F	10.50	F	14.77		14.45	F	14.77	F	11.83	F	5.18		3.84	F	18.77		9.21
VANO 22	9.75	13.00	1008.29	536.21	1421.79	1077.40		11.28	F	15.07	F	16.83		10.91	F	9.04	F	10.50	F	14.77		13.77	F	14.77	F	11.83	F	5.18		3.55	F	18.77		8.51
VANO 22	10.73	14.00	925.80	544.54	1439.61	1006.92		10.47	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		13.09	F	14.77	F	11.83	F	5.18		3.26	F	18.77		7.81
VANO 22	11.70	15.00	844.11	552.87	1459.23	936.43	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.42	F	14.77	F	11.83	F	5.18		2.97	F	18.77		7.12
VANO 22	11.70	16.00	844.11	552.87	1459.23	936.43	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		12.42	F	14.77	F	11.83	F	5.18		2.97	F	18.77		7.12
VANO 22	12.68	17.00	763.24	561.19	1480.65	865.94	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.68	F	18.77		6.44
VANO 22	13.65	18.00	683.20	574.55	1503.89	795.46	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.40	F	18.77		5.77
VANO 22	14.63	19.00	604.03	593.27	1528.92	724.97	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.12	F	18.77		5.10
VANO 22	15.60	20.00	525.73	611.77	1555.77	654.50	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.85	F	18.77		4.44
VANO 22	15.60	21.00	525.73	611.77	1555.77	654.50	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.85	F	18.77		4.44
VANO 22	16.58	22.00	448.34	630.03	1584.42	584.03	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.58	F	18.77		3.78
VANO 22	17.55	23.00	371.88	648.06	1614.88	513.57	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.31	F	18.77		3.14
VANO 22	18.53	24.00	296.35	665.86	1647.15	443.12	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.04	F	18.77		2.50
VANO 22	19.50	25.00	323.80	746.69	1681.22	372.69	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.14	F	18.77		2.73
VANO 22	19.50	26.00	323.80	746.69	1681.22	372.69	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.14	F	18.77		2.73
VANO 22	20.48	27.00	386.36	744.04	1717.09	302.27	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.36	F	18.77		3.26
VANO 22	21.45	28.00	451.29	750.66	1754.78	231.87	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.59	F	18.77		3.81
VANO 22	22.43	29.00	351.06	734.72	1794.27	161.49	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.23	F	18.77		2.96
VANO 22	23.40	30.00	703.55	751.35	1835.57	91.13	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.47	F	18.77		5.94
VANO 22	23.40	31.00	686.61	751.35	1835.57	74.19	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.42	F	18.77		5.79
VANO 22	24.38	32.00	617.19	767.75	1878.67	14.17	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.17	F	18.77		5.21
VANO 22	25.35	33.00	550.16	783.92	1923.58	65.66	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.94	F	18.77		4.64
VANO 22	26.33	34.00	486.82	705.22	1970.30	135.20	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.71	F	18.77		4.11
VANO 22	27.30	35.00	425.53	717.40	2018.82	204.71	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.15		1.50	F	18.77		3.59
VANO 22	27.30	36.00	425.53	717.40	2018.82	204.71	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.50	F	18.77		3.59
VANO 22	28.28	37.00	364.89	729.38	2069.15	274.19	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.28	F	18.77		3.08
VANO 22	29.25	38.00	304.91	741.17	2121.29	343.63	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.07	F	18.77		2.57
VANO 22	30.23	39.00	350.29	1002.05	2175.22	413.02	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.23	F	18.77		2.96
VANO 22	31.20	40.00	429.93	1023.59	2230.85	482.37	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.51	F	18.77		3.63
VANO 22	31.20	41.00	429.93	1023.59	2230.85	482.37	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.51	F	18.77		3.63
VANO 22	32.18	42.00	510.60	1045.32	2288.11	551.68	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		1.80	F	18.77		4.31
VANO 22	33.15	43.00	592.29	1067.25	2347.00	620.93	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77	F	11.83	F	14.77	F	11.83	F	5.18		2.08	F	18.77		5.00
VANO 22	34.13	44.00	675.00	1089.36	2407.53	690.13	F	10.15	F	15.07	F	16.83	F	10.50	F	9.04	F	10.50	F	14.77		11.86	F	14.77	F	11.83	F	5.18		2.37	F	18.77		5.70
VANO 22	35.10	45.00	758.73	1111.67	2469.70	759.28	F	10.15	F	15.07	F	16.83		10.67	F	9.04	F	10.50	F	14.77		12.68	F	14.77	F	11.83	F	5.18		2.67	F	18.77		6.40
VANO 22	35.10	46.00	982.91	1111.67	2469.70	983.47		12.28	F	15.07	F	16.83		12.34	F	9.04	F	10.50		14.95		14.95	F	14.77		12.00	F	5.18		3.46	F	18.77		8.30
VANO 22	36.08	47.00	1067.66	1134.16	2533.50	1052.55		12.40	F	15.07	F	16.83		12.98	F	9.04	F	10.50		15.77		15.77	F	14.77		12.62	F	5.18		3.76	F	18.77		9.01
VANO 22	37.05	48.00	1153.42	1156.85	2598.94	1121.58		12.54	F	15.07	F	16.83		13.63		9.22	F	10.50		16.60		16.60	F	14.77		13.24	F	5.18		4.06	F	18.77		9.73
VANO 22	38.03	49.00	1240.19	1179.72	2666.13	1190.57		12.67	F	15.07	F	16.83		14.28		9.60	F	10.50		17.44		17.44	F	14.77		13.87	F	5.18		4.36	F	18.77		10.47
VANO 22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]