ANEJO Nº 6. ESTRUCTURAS

4. Cálculos

Viaducto de Borges Blanques

Subanejo 5.2

TENSIONES EN ESTADOS INDIVIDUALES DE CARGA A TIEMPO INFINITO

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Pvigas.Tinf
Pesopropiovigas). Tensiones a tiempo Tinf
]Pvigas
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-46.02	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-35.95	40.99	0	28.49	2	-12.30	2	-7.58	2.35	-12.22
2	2	1.00	0.00	-35.95	40.99	0	28.49	2	-12.30	2	-7.58	2.35	-12.22
2	3	1.18	0.00	-35.37	47.23	0	32.82	2	-14.17	2	-8.74	2.35	-14.07
3	3	1.18	0.00	-35.37	47.23	0	32.82	2	-14.17	2	-8.74	2.35	-14.07
3	4	2.35	0.00	-31.44	86.47	0	60.10	2	-25.94	2	-16.00	2.35	-25.77
4	4	2.35	0.00	-31.44	86.47	0	60.10	2	-25.94	2	-16.00	2.35	-25.77
4	5	3.53	0.00	-27.50	121.10	0	84.16	2	-36.33	2	-22.40	2.35	-36.09
5	5	3.53	0.00	-27.50	121.10	0	84.16	2	-36.33	2	-22.40	2.35	-36.09
5	6	4.70	0.00	-23.57	151.10	0	105.01	2	-45.33	2	-27.95	2.35	-45.03
6	6	4.70	0.00	-23.57	151.10	0	105.01	2	-45.33	2	-27.95	2.35	-45.03
6	7	5.88	0.00	-19.64	176.49	0	122.66	2	-52.95	2	-32.65	2.35	-52.59
7	7	5.88	0.00	-19.64	176.49	0	122.66	2	-52.95	2	-32.65	2.35	-52.59
7	8	7.05	0.00	-15.70	197.25	0	137.09	2	-59.18	2	-36.49	2.35	-58.78
8	8	7.05	0.00	-15.70	197.25	0	137.09	2	-59.18	2	-36.49	2.35	-58.78
8	9	8.23	0.00	-11.77	213.39	0	148.31	2	-64.02	2	-39.48	2.35	-63.59
9	9	8.23	0.00	-11.77	213.39	0	148.31	2	-64.02	2	-39.48	2.35	-63.59
9	10	9.40	0.00	-7.84	224.91	0	156.31	2	-67.47	2	-41.61	2.35	-67.02
10	10	9.40	0.00	-7.84	224.91	0	156.31	2	-67.47	2	-41.61	2.35	-67.02
10	11	10.58	0.00	-3.91	231.81	0	161.11	2	-69.54	2	-42.88	2.35	-69.08
11	11	10.58	0.00	-3.91	231.81	0	161.11	2	-69.54	2	-42.88	2.35	-69.08
11	12	11.75	0.00	0.03	234.09	0	162.69	2	-70.23	2	-43.31	2.35	-69.78
12	12	11.75	0.00	0.03	234.09	0	162.69	2	-70.23	2	-43.31	2.35	-69.78
12	13	12.93	0.00	3.96	231.75	0	161.07	2	-69.53	2	-42.87	2.35	-69.06
13	13	12.93	0.00	3.96	231.75	0	161.07	2	-69.53	2	-42.87	2.35	-69.06
13	14	14.10	0.00	7.89	224.79	0	156.23	2	-67.44	2	-41.59	2.35	-66.99
14	14	14.10	0.00	7.89	224.79	0	156.23	2	-67.44	2	-41.59	2.35	-66.99
14	15	15.28	0.00	11.82	213.21	0	148.18	2	-63.96	2	-39.44	2.35	-63.54
15	15	15.28	0.00	11.82	213.21	0	148.18	2	-63.96	2	-39.44	2.35	-63.54
15	16	16.45	0.00	15.76	197.00	0	136.92	2	-59.10	2	-36.45	2.35	-58.71
16	16	16.45	0.37	15.75	197.00	0	137.24	2	-59.04	2	-36.40	2.35	-58.69
16	17	17.63	0.47	19.69	176.18	0	122.85	2	-52.77	2	-32.54	2.35	-52.49
17	17	17.63	0.47	19.69	176.18	0	119.63	2	-66.86	2	-46.79	2.35	-68.68
17	18	18.80	0.56	23.62	150.73	0	102.47	2	-57.17	2	-40.01	2.35	-58.74
18	18	18.80	0.00	23.63	150.73	0	102.04	2	-57.28	2	-40.09	2.35	-58.78
18	19	19.98	0.00	27.56	120.66	0	81.69	2	-45.85	2	-32.10	2.35	-47.06
19	19	19.98	0.00	27.56	120.66	0	81.69	2	-45.85	2	-32.10	2.35	-47.06
19	20	21.15	0.00	31.49	85.97	0	58.20	2	-32.67	2	-22.87	2.35	-33.53
20	20	21.15	0.00	31.49	85.97	0	58.20	2	-32.67	2	-22.87	2.35	-33.53
20	21	22.33	0.00	35.42	46.65	0	31.58	2	-17.73	2	-12.41	2.35	-18.19
21	21	22.33	0.00	35.42	46.65	0	31.58	2	-17.73	2	-12.41	2.35	-18.19
21	22	22.50	0.00	36.01	40.40	0	27.35	2	-15.35	2	-10.75	2.35	-15.76
22	22	22.50	0.00	36.01	40.40	0	27.35	2	-15.35	2	-10.75	2.35	-15.76
22	23	23.50	0.00	44.80	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
?	1023	23.50	0.00	-53.98	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
)	24	24.50	0.00	-45.19	49.58	0	33.57	2	-18.84	2	-13.19	2.35	-19.34
24	24	24.50	0.00	-45.19	49.58	0	33.57	2	-18.84	2	-13.19	2.35	-19.34
24	25	24.95	0.00	-43.68	69.58	0	47.11	2	-26.44	2	-18.51	2.35	-27.14
25	25	24.95	0.00	-43.68	69.58	0	47.11	2	-26.44	2	-18.51	2.35	-27.14
25	26	26.40	0.00	-38.83	129.39	0	87.60	2	-49.17	2	-34.42	2.35	-50.46
26	26	26.40	0.00	-38.83	129.39	0	87.60	2	-49.17	2	-34.42	2.35	-50.46
26	27	27.85	0.00	-33.97	182.17	0	123.33	2	-69.22	2	-48.46	2.35	-71.05
27	27	27.85	0.00	-33.97	182.17	0	123.33	2	-69.22	2	-48.46	2.35	-71.05
27	28	29.30	0.00	-29.12	227.92	0	154.30	2	-86.61	2	-60.63	2.35	-88.89
28	28	29.30	0.56	-29.12	227.92	0	154.73	2	-86.50	2	-60.54	2.35	-88.85
28	29	30.75	0.46	-24.26	266.62	0	180.85	2	-101.23	2	-70.85	2.35	-103.95
29	29	30.75	0.46	-24.26	266.62	0	185.70	2	-79.91	2	-49.27	2.35	-79.44
29	30	32.20	0.37	-19.41	298.29	0	207.63	2	-89.42	2	-55.14	2.35	-88.88
30	30	32.20	0.00	-19.41	298.29	0	207.31	2	-89.49	2	-55.18	2.35	-88.89
30	31	33.65	0.00	-14.56	322.92	0	224.43	2	-96.88	2	-59.74	2.35	-96.23
31	31	33.65	0.00	-14.56	322.92	0	224.43	2	-96.88	2	-59.74	2.35	-96.23
31	32	35.10	0.00	-9.71	340.51	0	236.65	2	-102.15	2	-62.99	2.35	-101.47
32	32	35.10	0.00	-9.71	340.51	0	236.65	2	-102.15	2	-62.99	2.35	-101.47
32	33	36.55	0.00	-4.85	351.07	0	243.99	2	-105.32	2	-64.95	2.35	-104.62
33	33	36.55	0.00	-4.85	351.07	0	243.99	2	-105.32	2	-64.95	2.35	-104.62
33	34	38.00	0.00	0.00	354.59	0	246.44	2	-106.38	2	-65.60	2.35	-105.67
34	34	38.00	0.00	0.00	354.59	0	246.44	2	-106.38	2	-65.60	2.35	-105.67
34	35	39.45	0.00	4.85	351.07	0	243.99	2	-105.32	2	-64.95	2.35	-104.62
35	35	39.45	0.00	4.85	351.07	0	243.99	2	-105.32	2	-64.95	2.35	-104.62
35	36	40.90	0.00	9.71	340.51	0	236.65	2	-102.15	2	-62.99	2.35	-101.47
?	36	40.90	0.00	9.71	340.51	0	236.65	2	-102.15	2	-62.99	2.35	-101.47
36	37	42.35	0.00	14.56	322.92	0	224.43	2	-96.88	2	-59.74	2.35	-96.23
37	37	42.35	0.00	14.56	322.92	0	224.43	2	-96.88	2	-59.74	2.35	-96.23
37	38	43.80	0.00	19.41	298.29	0	207.31	2	-89.49	2	-55.18	2.35	-88.89
38	38	43.80	0.37	19.41	298.29	0	207.63	2	-89.42	2	-55.14	2.35	-88.88
38	39	45.25	0.46	24.26	266.62	0	185.70	2	-79.91	2	-49.27	2.35	-79.44

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Pvigas.Tinf
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]Pvigas
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	0.46	24.26	266.62	0	180.85	2	-101.23	2	-70.85	2.35	-103.95
39	40	46.70	0.56	29.12	227.92	0	154.73	2	-86.50	2	-60.54	2.35	-88.85
40	40	46.70	0.00	29.12	227.92	0	154.30	2	-86.61	2	-60.63	2.35	-88.89
40	41	48.15	0.00	33.97	182.17	0	123.33	2	-69.22	2	-48.46	2.35	-71.05
41	41	48.15	0.00	33.97	182.17	0	123.33	2	-69.22	2	-48.46	2.35	-71.05
41	42	49.60	0.00	38.83	129.39	0	87.60	2	-49.17	2	-34.42	2.35	-50.46
42	42	49.60	0.00	38.83	129.39	0	87.60	2	-49.17	2	-34.42	2.35	-50.46
42	43	51.05	0.00	43.68	69.58	0	47.11	2	-26.44	2	-18.51	2.35	-27.14
43	43	51.05	0.00	43.68	69.58	0	47.11	2	-26.44	2	-18.51	2.35	-27.14
43	44	51.50	0.00	45.19	49.58	0	33.57	2	-18.84	2	-13.19	2.35	-19.34
44	44	51.50	0.00	45.19	49.58	0	33.57	2	-18.84	2	-13.19	2.35	-19.34
44	45	52.50	0.00	53.98	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	1045	52.50	0.00	-53.98	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	46	53.50	0.00	-45.19	49.58	0	33.57	2	-18.84	2	-13.19	2.35	-19.34
46	46	53.50	0.00	-45.19	49.58	0	33.57	2	-18.84	2	-13.19	2.35	-19.34
46	47	53.95	0.00	-43.68	69.58	0	47.11	2	-26.44	2	-18.51	2.35	-27.14
47	47	53.95	0.00	-43.68	69.58	0	47.11	2	-26.44	2	-18.51	2.35	-27.14
47	48	55.40	0.00	-38.83	129.39	0	87.60	2	-49.17	2	-34.42	2.35	-50.46
48	48	55.40	0.00	-38.83	129.39	0	87.60	2	-49.17	2	-34.42	2.35	-50.46
48	49	56.85	0.00	-33.97	182.17	0	123.33	2	-69.22	2	-48.46	2.35	-71.05
49	49	56.85	0.00	-33.97	182.17	0	123.33	2	-69.22	2	-48.46	2.35	-71.05
49	50	58.30	0.00	-29.12	227.92	0	154.30	2	-86.61	2	-60.63	2.35	-88.89
50	50	58.30	0.56	-29.12	227.92	0	154.73	2	-86.50	2	-60.54	2.35	-88.85
50	51	59.75	0.46	-24.26	266.62	0	180.85	2	-101.23	2	-70.85	2.35	-103.95
51	51	59.75	0.46	-24.26	266.62	0	185.70	2	-79.91	2	-49.27	2.35	-79.44
51	52	61.20	0.37	-19.41	298.29	0	207.63	2	-89.42	2	-55.14	2.35	-88.88
52	52	61.20	0.00	-19.41	298.29	0	207.31	2	-89.49	2	-55.18	2.35	-88.89
52	53	62.65	0.00	-14.56	322.92	0	224.43	2	-96.88	2	-59.74	2.35	-96.23
53	53	62.65	0.00	-14.56	322.92	0	224.43	2	-96.88	2	-59.74	2.35	-96.23
53	54	64.10	0.00	-9.71	340.51	0	236.65	2	-102.15	2	-62.99	2.35	-101.47
54	54	64.10	0.00	-9.71	340.51	0	236.65	2	-102.15	2	-62.99	2.35	-101.47
54	55	65.55	0.00	-4.85	351.07	0	243.99	2	-105.32	2	-64.95	2.35	-104.62
55	55	65.55	0.00	-4.85	351.07	0	243.99	2	-105.32	2	-64.95	2.35	-104.62
55	56	67.00	0.00	0.00	354.59	0	246.44	2	-106.38	2	-65.60	2.35	-105.67
56	56	67.00	0.00	0.00	354.59	0	246.44	2	-106.38	2	-65.60	2.35	-105.67
56	57	68.45	0.00	4.85	351.07	0	243.99	2	-105.32	2	-64.95	2.35	-104.62
57	57	68.45	0.00	4.85	351.07	0	243.99	2	-105.32	2	-64.95	2.35	-104.62
57	58	69.90	0.00	9.71	340.51	0	236.65	2	-102.15	2	-62.99	2.35	-101.47
58	58	69.90	0.00	9.71	340.51	0	236.65	2	-102.15	2	-62.99	2.35	-101.47
58	59	71.35	0.00	14.56	322.92	0	224.43	2	-96.88	2	-59.74	2.35	-96.23
59	59	71.35	0.00	14.56	322.92	0	224.43	2	-96.88	2	-59.74	2.35	-96.23
59	60	72.80	0.00	19.41	298.29	0	207.31	2	-89.49	2	-55.18	2.35	-88.89
60	60	72.80	0.37	19.41	298.29	0	207.63	2	-89.42	2	-55.14	2.35	-88.88
60	61	74.25	0.46	24.26	266.62	0	185.70	2	-79.91	2	-49.27	2.35	-79.44
61	61	74.25	0.46	24.26	266.62	0	180.85	2	-101.23	2	-70.85	2.35	-103.95
61	62	75.70	0.56	29.12	227.92	0	154.73	2	-86.50	2	-60.54	2.35	-88.85
62	62	75.70	0.00	29.12	227.92	0	154.30	2	-86.61	2	-60.63	2.35	-88.89
62	63	77.15	0.00	33.97	182.17	0	123.33	2	-69.22	2	-48.46	2.35	-71.05
63	63	77.15	0.00	33.97	182.17	0	123.33	2	-69.22	2	-48.46	2.35	-71.05
63	64	78.60	0.00	38.83	129.39	0	87.60	2	-49.17	2	-34.42	2.35	-50.46
64	64	78.60	0.00	38.83	129.39	0	87.60	2	-49.17	2	-34.42	2.35	-50.46
64	65	80.05	0.00	43.68	69.58	0	47.11	2	-26.44	2	-18.51	2.35	-27.14
65	65	80.05	0.00	43.68	69.58	0	47.11	2	-26.44	2	-18.51	2.35	-27.14
65	66	80.50	0.00	45.19	49.58	0	33.57	2	-18.84	2	-13.19	2.35	-19.34
66	66	80.50	0.00	45.19	49.58	0	33.57	2	-18.84	2	-13.19	2.35	-19.34
66	67	81.50	0.00	53.98	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	1067	81.50	0.00	-58.16	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	68	82.50	0.00	-49.37	53.77	0	36.40	2	-20.43	2	-14.30	2.35	-20.97
68	68	82.50	0.00	-49.37	53.77	0	36.40	2	-20.43	2	-14.30	2.35	-20.97
68	69	83.08	0.00	-47.45	81.60	0	55.24	2	-31.01	2	-21.71	2.35	-31.82
69	69	83.08	0.00	-47.45	81.60	0	55.24	2	-31.01	2	-21.71	2.35	-31.82
69	70	84.65	0.00	-42.17	152.17	0	103.02	2	-57.82	2	-40.48	2.35	-59.35
70	70	84.65	0.00	-42.17	152.17	0	103.02	2	-57.82	2	-40.48	2.35	-59.35
70	71	86.23	0.00	-36.90	214.45	0	145.18	2	-81.49	2	-57.04	2.35	-83.64
71	71	86.23	0.00	-36.90	214.45	0	145.18	2	-81.49	2	-57.04	2.35	-83.64
71	72	87.80	0.00	-31.63	268.42	0	181.72	2	-102.00	2	-71.40	2.35	-104.58
72	72	87.80	0.56	-31.63	268.42	0	182.14	2	-101.89	2	-71.32	2.35	-104.64
72	73	89.38	0.46	-26.35	314.08	0	212.98	2	-119.26	2	-83.48	2.35	-122.46
73	73	89.38	0.46	-26.35	314.08	0	218.69	2	-94.14	2	-58.05	2.35	-93.58
73	74	90.95	0.37	-21.08	351.44	0	244.57	2	-105.37	2	-64.97	2.35	-104.72
74	74	90.95	0.00	-21.09	351.44	0	244.25	2	-105.43	2	-65.02	2.35	-104.73
74	75	92.53	0.00	-15.81	380.50	0	264.45	2	-114.15	2	-70.39	2.35	-113.39
75	75	92.53	0.00	-15.81	380.50	0	264.45	2	-114.15	2	-70.39	2.35	-113.39
75	76	94.10	0.00	-10.54	401.26	0	278.88	2	-120.38	2	-74.23	2.35	-119.58
76	76	94.10	0.00	-10.54	401.26	0	278.88	2	-120.38	2	-74.23	2.35	-119.58
76	77	95.68	0.00	-5.27	413.71	0	287.53	2	-124.11	2	-76.54	2.35	-123.29

CÁLCULO TENSIONAL

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...Pvigas
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-5.27	413.71	0	287.53	2	-124.11	2	-76.54	2.35	-123.29
77	78	97.25	0.00	0.00	417.86	0	290.41	2	-125.36	2	-77.30	2.35	-124.52
78	78	97.25	0.00	0.00	417.86	0	290.41	2	-125.36	2	-77.30	2.35	-124.52
78	79	98.83	0.00	5.27	413.71	0	287.53	2	-124.11	2	-76.54	2.35	-123.29
79	79	98.83	0.00	5.27	413.71	0	287.53	2	-124.11	2	-76.54	2.35	-123.29
79	80	100.40	0.00	10.54	401.26	0	278.88	2	-120.38	2	-74.23	2.35	-119.58
80	80	100.40	0.00	10.54	401.26	0	278.88	2	-120.38	2	-74.23	2.35	-119.58
80	81	101.98	0.00	15.81	380.50	0	264.45	2	-114.15	2	-70.39	2.35	-113.39
81	81	101.98	0.00	15.81	380.50	0	264.45	2	-114.15	2	-70.39	2.35	-113.39
81	82	103.55	0.00	21.09	351.44	0	244.25	2	-105.43	2	-65.02	2.35	-104.73
82	82	103.55	0.37	21.08	351.44	0	244.57	2	-105.37	2	-64.97	2.35	-104.72
82	83	105.13	0.46	26.35	314.08	0	218.69	2	-94.14	2	-58.05	2.35	-93.58
83	83	105.13	0.46	26.35	314.08	0	212.98	2	-119.26	2	-83.48	2.35	-122.46
83	84	106.70	0.56	31.63	268.42	0	182.14	2	-101.89	2	-71.32	2.35	-104.64
84	84	106.70	0.00	31.63	268.42	0	181.72	2	-102.00	2	-71.40	2.35	-104.68
84	85	108.28	0.00	36.90	214.45	0	145.18	2	-81.49	2	-57.04	2.35	-83.64
85	85	108.28	0.00	36.90	214.45	0	145.18	2	-81.49	2	-57.04	2.35	-83.64
85	86	109.85	0.00	42.17	152.17	0	103.02	2	-57.82	2	-40.48	2.35	-59.35
86	86	109.85	0.00	42.17	152.17	0	103.02	2	-57.82	2	-40.48	2.35	-59.35
3	87	111.43	0.00	47.45	81.60	0	55.24	2	-31.01	2	-21.71	2.35	-31.82
87	87	111.43	0.00	47.45	81.60	0	55.24	2	-31.01	2	-21.71	2.35	-31.82
87	88	112.00	0.00	49.37	53.76	0	36.40	2	-20.43	2	-14.30	2.35	-20.97
88	88	112.00	0.00	49.37	53.76	0	36.40	2	-20.43	2	-14.30	2.35	-20.97
88	89	113.00	0.00	58.16	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	1089	113.00	0.00	-58.16	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	90	114.00	0.00	-49.37	53.77	0	36.40	2	-20.43	2	-14.30	2.35	-20.97
90	90	114.00	0.00	-49.37	53.77	0	36.40	2	-20.43	2	-14.30	2.35	-20.97
90	91	114.58	0.00	-47.45	81.60	0	55.24	2	-31.01	2	-21.71	2.35	-31.82
91	91	114.58	0.00	-47.45	81.60	0	55.24	2	-31.01	2	-21.71	2.35	-31.82
91	92	116.15	0.00	-42.17	152.17	0	103.02	2	-57.82	2	-40.48	2.35	-59.35
92	92	116.15	0.00	-42.17	152.17	0	103.02	2	-57.82	2	-40.48	2.35	-59.35
92	93	117.73	0.00	-36.90	214.45	0	145.18	2	-81.49	2	-57.04	2.35	-83.64
93	93	117.73	0.00	-36.90	214.45	0	145.18	2	-81.49	2	-57.04	2.35	-83.64
93	94	119.30	0.00	-31.63	268.42	0	181.72	2	-102.00	2	-71.40	2.35	-104.68
94	94	119.30	0.56	-31.63	268.42	0	182.14	2	-101.89	2	-71.32	2.35	-104.64
94	95	120.88	0.46	-26.35	314.08	0	212.98	2	-119.26	2	-83.48	2.35	-122.46
95	95	120.88	0.46	-26.35	314.08	0	218.69	2	-94.14	2	-58.05	2.35	-93.58
95	96	122.45	0.37	-21.08	351.45	0	244.58	2	-105.37	2	-64.97	2.35	-104.72
96	96	122.45	0.00	-21.09	351.45	0	244.26	2	-105.44	2	-65.02	2.35	-104.73
96	97	124.03	0.00	-15.81	380.51	0	264.45	2	-114.15	2	-70.39	2.35	-113.39
97	97	124.03	0.00	-15.81	380.51	0	264.45	2	-114.15	2	-70.39	2.35	-113.39
97	98	125.60	0.00	-10.54	401.26	0	278.88	2	-120.38	2	-74.23	2.35	-119.58
98	98	125.60	0.00	-10.54	401.26	0	278.88	2	-120.38	2	-74.23	2.35	-119.58
98	99	127.18	0.00	-5.27	413.72	0	287.54	2	-124.12	2	-76.54	2.35	-123.29
)	99	127.18	0.00	-5.27	413.72	0	287.54	2	-124.12	2	-76.54	2.35	-123.29
	100	128.75	0.00	0.00	417.87	0	290.42	2	-125.36	2	-77.31	2.35	-124.53
100	100	128.75	0.00	0.00	417.87	0	290.42	2	-125.36	2	-77.31	2.35	-124.53
100	101	130.33	0.00	5.27	413.72	0	287.54	2	-124.12	2	-76.54	2.35	-123.29
101	101	130.33	0.00	5.27	413.72	0	287.54	2	-124.12	2	-76.54	2.35	-123.29
101	102	131.90	0.00	10.54	401.26	0	278.88	2	-120.38	2	-74.23	2.35	-119.58
102	102	131.90	0.00	10.54	401.26	0	278.88	2	-120.38	2	-74.23	2.35	-119.58
102	103	133.48	0.00	15.81	380.50	0	264.45	2	-114.15	2	-70.39	2.35	-113.39
103	103	133.48	0.00	15.81	380.50	0	264.45	2	-114.15	2	-70.39	2.35	-113.39
103	104	135.05	0.00	21.09	351.45	0	244.26	2	-105.44	2	-65.02	2.35	-104.73
104	104	135.05	0.37	21.08	351.45	0	244.58	2	-105.37	2	-64.97	2.35	-104.72
104	105	136.63	0.46	26.35	314.08	0	218.69	2	-94.14	2	-58.05	2.35	-93.58
105	105	136.63	0.46	26.35	314.08	0	212.98	2	-119.26	2	-83.48	2.35	-122.46
105	106	138.20	0.56	31.63	268.42	0	182.14	2	-101.89	2	-71.32	2.35	-104.64
106	106	138.20	0.00	31.63	268.42	0	181.72	2	-102.00	2	-71.40	2.35	-104.68
106	107	139.78	0.00	36.90	214.45	0	145.18	2	-81.49	2	-57.04	2.35	-83.64
107	107	139.78	0.00	36.90	214.45	0	145.18	2	-81.49	2	-57.04	2.35	-83.64
107	108	141.35	0.00	42.17	152.17	0	103.02	2	-57.82	2	-40.48	2.35	-59.35
108	108	141.35	0.00	42.17	152.17	0	103.02	2	-57.82	2	-40.48	2.35	-59.35
108	109	142.93	0.00	47.45	81.60	0	55.24	2	-31.01	2	-21.71	2.35	-31.82
109	109	142.93	0.00	47.45	81.60	0	55.24	2	-31.01	2	-21.71	2.35	-31.82
109	110	143.50	0.00	49.37	53.76	0	36.40	2	-20.43	2	-14.30	2.35	-20.97
110	110	143.50	0.00	49.37	53.76	0	36.40	2	-20.43	2	-14.30	2.35	-20.97
110	111	144.50	0.00	58.16	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
111	1111	144.50	0.00	-44.80	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
'	112	145.50	0.00	-36.01	40.41	0	27.36	2	-15.36	2	-10.75	2.35	-15.76
2	112	145.50	0.00	-36.01	40.41	0	27.36	2	-15.36	2	-10.75	2.35	-15.76
112	113	145.68	0.00	-35.42	46.65	0	31.58	2	-17.73	2	-12.41	2.35	-18.19
113	113	145.68	0.00	-35.42	46.65	0	31.58	2	-17.73	2	-12.41	2.35	-18.19
113	114	146.85	0.00	-31.49	85.97	0	58.20	2	-32.67	2	-22.87	2.35	-33.53
114	114	146.85	0.00	-31.49	85.97	0	58.20	2	-32.67	2	-22.87	2.35	-33.53
114	115	148.03	0.00	-27.56	120.66	0	81.69	2	-45.85	2	-32.10	2.35	-47.06

hsim_tinf.xls
Programa DINTEL IDEAM S.A.
Pvigas.Tinf
05/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Pvigas.Tinf

Pesopropiovigas). Tensiones a tiempo Tinf

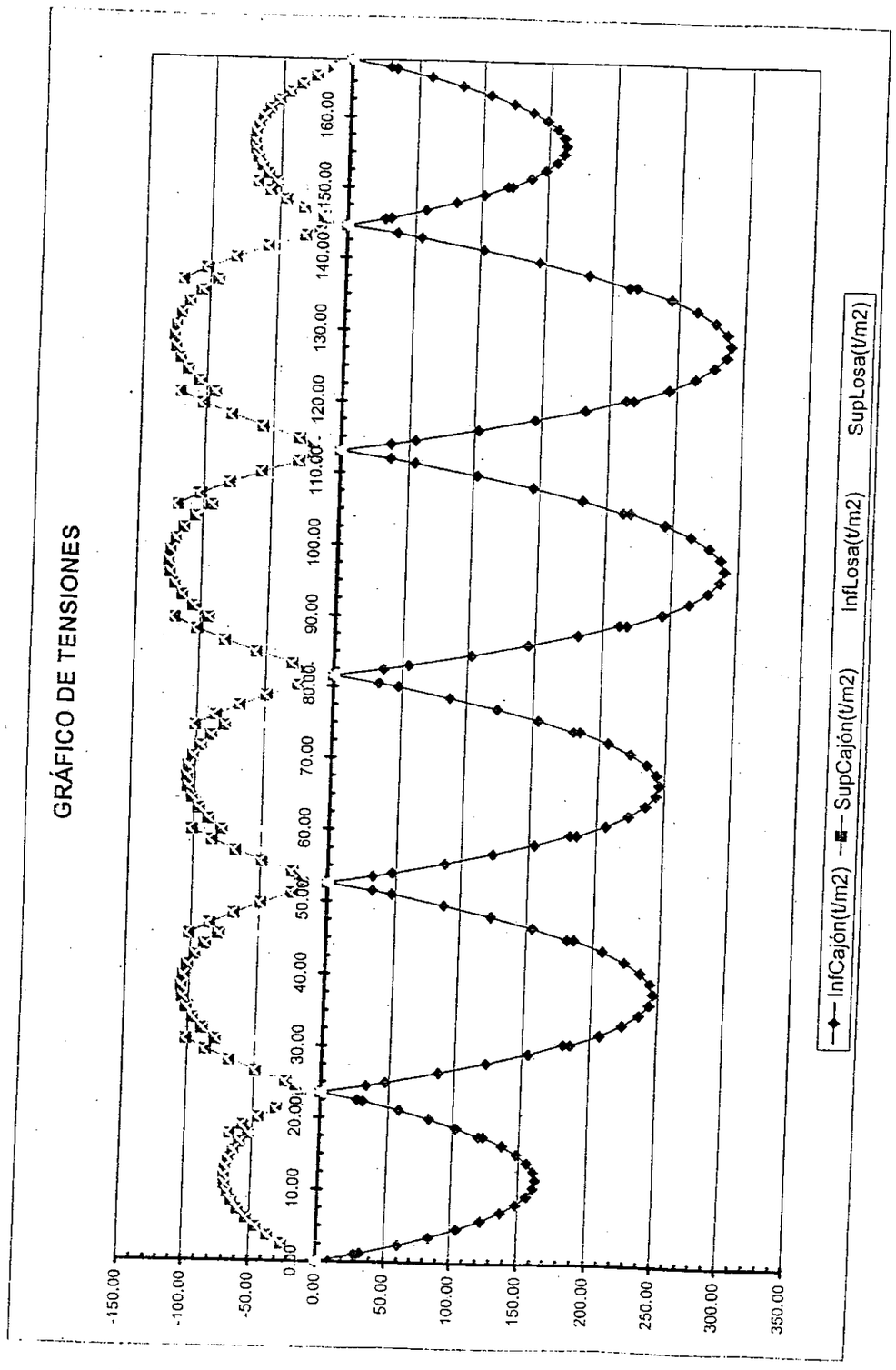
...Pvigas
...ef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	-27.56	120.66	0	81.69	2	-45.85	2	-32.10	2.35	-47.06
115	116	149.20	0.00	-23.63	150.73	0	102.04	2	-57.28	2	-40.09	2.35	-58.78
116	116	149.20	0.56	-23.62	150.73	0	102.47	2	-57.17	2	-40.01	2.35	-58.74
116	117	150.38	0.47	-19.69	176.18	0	119.63	2	-66.86	2	-46.79	2.35	-68.68
117	117	150.38	0.47	-19.69	176.18	0	122.85	2	-52.77	2	-32.54	2.35	-52.49
117	118	151.55	0.37	-15.75	197.00	0	137.24	2	-59.04	2	-36.40	2.35	-58.69
118	118	151.55	0.00	-15.76	197.00	0	136.92	2	-59.10	2	-36.45	2.35	-58.71
118	119	152.73	0.00	-11.82	213.21	0	148.18	2	-63.96	2	-39.44	2.35	-63.54
119	119	152.73	0.00	-11.82	213.21	0	148.18	2	-63.96	2	-39.44	2.35	-63.54
119	120	153.90	0.00	-7.89	224.79	0	156.23	2	-67.44	2	-41.59	2.35	-66.99
120	120	153.90	0.00	-7.89	224.79	0	156.23	2	-67.44	2	-41.59	2.35	-66.99
120	121	155.08	0.00	-3.96	231.75	0	161.07	2	-69.53	2	-42.87	2.35	-69.06
121	121	155.08	0.00	-3.96	231.75	0	161.07	2	-69.53	2	-42.87	2.35	-69.06
121	122	156.25	0.00	-0.03	234.09	0	162.69	2	-70.23	2	-43.31	2.35	-69.76
122	122	156.25	0.00	-0.03	234.09	0	162.69	2	-70.23	2	-43.31	2.35	-69.76
122	123	157.43	0.00	3.91	231.81	0	161.11	2	-69.54	2	-42.88	2.35	-69.08
123	123	157.43	0.00	3.91	231.81	0	161.11	2	-69.54	2	-42.88	2.35	-69.08
123	124	158.60	0.00	7.84	224.91	0	156.31	2	-67.47	2	-41.61	2.35	-67.02
124	124	158.60	0.00	7.84	224.91	0	156.31	2	-67.47	2	-41.61	2.35	-67.02
124	125	159.78	0.00	11.77	213.39	0	148.31	2	-64.02	2	-39.48	2.35	-63.59
125	125	159.78	0.00	11.77	213.39	0	148.31	2	-64.02	2	-39.48	2.35	-63.59
125	126	160.95	0.00	15.70	197.25	0	137.09	2	-59.18	2	-36.49	2.35	-58.78
126	126	160.95	0.00	15.70	197.25	0	137.09	2	-59.18	2	-36.49	2.35	-58.78
126	127	162.13	0.00	19.64	176.49	0	122.66	2	-52.95	2	-32.65	2.35	-52.59
127	127	162.13	0.00	19.64	176.49	0	122.66	2	-52.95	2	-32.65	2.35	-52.59
127	128	163.30	0.00	23.57	151.10	0	105.01	2	-45.33	2	-27.95	2.35	-45.03
128	128	163.30	0.00	23.57	151.10	0	105.01	2	-45.33	2	-27.95	2.35	-45.03
128	129	164.48	0.00	27.50	121.10	0	84.16	2	-36.33	2	-22.40	2.35	-36.09
129	129	164.48	0.00	27.50	121.10	0	84.16	2	-36.33	2	-22.40	2.35	-36.09
129	130	165.65	0.00	31.44	86.47	0	60.10	2	-25.94	2	-16.00	2.35	-25.77
130	130	165.65	0.00	31.44	86.47	0	60.10	2	-25.94	2	-16.00	2.35	-25.77
130	131	166.83	0.00	35.37	47.23	0	32.82	2	-14.17	2	-8.74	2.35	-14.07
131	131	166.83	0.00	35.37	47.23	0	32.82	2	-14.17	2	-8.74	2.35	-14.07
131	132	167.00	0.00	35.95	40.98	0	28.48	2	-12.29	2	-7.58	2.35	-12.21
132	132	167.00	0.00	35.95	40.98	0	28.48	2	-12.29	2	-7.58	2.35	-12.21
132	133	168.00	0.00	46.02	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase1.ISO.To.Tinf
Pretensadolsostático(t=0)). Tensiones a tiempo Tinf
1)fase1.ISO.To
ref exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	0.00	0.00								
1	2	1.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
2	2	1.00	-501.48	0.00	-171.87	0	0.00	2	0.00	2	0.00	2.35	0.00
2	3	1.18	-501.48	0.00	-171.87	0	-556.24	2	-35.70	2	-29.89	2.35	35.17
3	3	1.18	-501.48	0.00	-171.87	0	-556.24	2	-35.70	2	-29.89	2.35	35.17
3	4	2.35	-501.48	0.00	-171.87	0	-556.24	2	-35.70	2	-29.89	2.35	35.17
4	4	2.35	-923.44	0.00	-435.17	0	-556.24	2	-35.70	2	-29.89	2.35	35.17
4	5	3.53	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
5	5	3.53	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
5	6	4.70	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
6	6	4.70	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
6	7	5.88	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
7	7	5.88	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
7	8	7.05	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
8	8	7.05	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
8	9	8.23	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
9	9	8.23	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
9	10	9.40	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
10	10	9.40	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
10	11	10.58	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
11	11	10.58	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
11	12	11.75	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
12	12	11.75	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
12	13	12.93	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
13	13	12.93	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
13	14	14.10	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
14	14	14.10	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
14	15	15.28	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
15	15	15.28	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
15	16	16.45	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
16	16	16.45	-923.18	21.82	-435.05	0	-1106.45	2	-30.12	2	-33.07	2.35	100.10
16	17	17.63	-923.18	21.82	-460.90	0	-1124.42	2	-22.36	2	-28.28	2.35	107.81
17	17	17.63	-923.18	21.82	-460.90	0	-1010.88	2	-5.80	2	-13.11	2.35	112.36
17	18	18.80	-923.18	21.82	-486.75	0	-1028.38	2	4.02	2	-6.23	2.35	122.44
18	18	18.80	-923.44	0.00	-486.88	0	-1028.66	2	4.02	2	-6.24	2.35	122.47
18	19	19.98	-923.44	0.00	-486.88	0	-1028.66	2	4.02	2	-6.24	2.35	122.47
19	19	19.98	-923.44	0.00	-486.88	0	-1028.66	2	4.02	2	-6.24	2.35	122.47
19	20	21.15	-923.44	0.00	-486.88	0	-1028.66	2	4.02	2	-6.24	2.35	122.47
20	20	21.15	-501.48	0.00	-199.95	0	-514.99	2	-22.31	2	-20.53	2.35	41.37
20	21	22.33	-501.48	0.00	-199.95	0	-514.99	2	-22.31	2	-20.53	2.35	41.37
21	21	22.33	-501.48	0.00	-199.95	0	-514.99	2	-22.31	2	-20.53	2.35	41.37
21	22	22.50	-501.48	0.00	-199.95	0	-514.99	2	-22.31	2	-20.53	2.35	41.37
22	22	22.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
22	23	23.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
23	1023	23.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
23	24	24.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
24	24	24.50	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
24	25	24.95	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
25	25	24.95	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
25	26	26.40	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
26	26	26.40	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
26	27	27.85	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
27	27	27.85	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
27	28	29.30	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
28	28	29.30	-1383.51	-26.49	-789.78	0	-1582.00	2	28.95	2	6.71	2.35	207.02
28	29	30.75	-1383.51	-26.49	-751.04	0	-1555.77	2	14.23	2	-3.60	2.35	191.91
29	29	30.75	-1383.51	-26.49	-751.04	0	-1727.01	2	-15.42	2	-31.23	2.35	179.54
29	30	32.20	-1383.51	-26.49	-712.30	0	-1700.09	2	-27.04	2	-38.40	2.35	167.99
30	30	32.20	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
30	31	33.65	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
31	31	33.65	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
31	32	35.10	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
32	32	35.10	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
32	33	36.55	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
33	33	36.55	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
33	34	38.00	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
34	34	38.00	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
34	35	39.45	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
35	35	39.45	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
35	36	40.90	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
36	36	40.90	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
36	37	42.35	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
37	37	42.35	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
37	38	43.80	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
38	38	43.80	-1383.51	26.49	-712.30	0	-1700.09	2	-27.04	2	-38.40	2.35	167.99
38	39	45.25	-1383.51	26.49	-751.04	0	-1727.01	2	-15.42	2	-31.23	2.35	179.54



CÁLCULO TENSIONAL

Hipótesis de cálculo:

fase1.ISO.To.Tinf

...tensadolsostático(t=0)). Tensiones a tiempo Tinf

...t)fase1.ISO.To

Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1383.51	26.49	-751.04	0	-1555.77	2	14.23	2	-3.60	2.35	191.91
39	40	46.70	-1383.51	26.49	-789.78	0	-1582.00	2	28.95	2	6.71	2.35	207.02
40	40	46.70	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
40	41	48.15	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
41	41	48.15	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
41	42	49.60	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
42	42	49.60	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
42	43	51.05	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
43	43	51.05	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
43	44	51.50	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
44	44	51.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
44	45	52.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	1045	52.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	46	53.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
46	46	53.50	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
46	47	53.95	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
47	47	53.95	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
47	48	55.40	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
48	48	55.40	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
48	49	56.85	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
49	49	56.85	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
49	50	58.30	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
50	50	58.30	-1383.51	-26.49	-789.78	0	-1582.00	2	28.95	2	6.71	2.35	207.02
50	51	59.75	-1383.51	-26.49	-751.04	0	-1555.77	2	14.23	2	-3.60	2.35	191.91
51	51	59.75	-1383.51	-26.49	-751.04	0	-1727.01	2	-15.42	2	-31.23	2.35	179.54
51	52	61.20	-1383.51	-26.49	-712.30	0	-1700.09	2	-27.04	2	-38.40	2.35	167.99
52	52	61.20	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
52	53	62.65	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
53	53	62.65	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
53	54	64.10	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
54	54	64.10	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
54	55	65.55	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
55	55	65.55	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
55	56	67.00	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
56	56	67.00	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
56	57	68.45	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
57	57	68.45	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
57	58	69.90	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
58	58	69.90	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
58	59	71.35	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
59	59	71.35	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
59	60	72.80	-1383.76	0.00	-712.43	0	-1700.39	2	-27.05	2	-38.40	2.35	168.02
60	60	72.80	-1383.51	26.49	-712.30	0	-1700.09	2	-27.04	2	-38.40	2.35	167.99
60	61	74.25	-1383.51	26.49	-751.04	0	-1727.01	2	-15.42	2	-31.23	2.35	179.54
)	61	74.25	-1383.51	26.49	-751.04	0	-1555.77	2	14.23	2	-3.60	2.35	191.91
62	62	75.70	-1383.51	26.49	-789.78	0	-1582.00	2	28.95	2	6.71	2.35	207.02
62	63	77.15	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
63	63	77.15	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
63	64	78.60	-1000.16	0.00	-539.82	0	-1122.58	2	9.10	2	-3.43	2.35	137.52
64	64	78.60	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
64	65	80.05	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
65	65	80.05	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
65	66	80.50	-539.84	0.00	-226.80	0	-562.20	2	-19.62	2	-19.03	2.35	49.04
66	66	80.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
66	67	81.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	1067	81.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	68	82.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
68	68	82.50	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
68	69	83.08	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
69	69	83.08	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
69	70	84.65	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
70	70	84.65	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
70	71	86.23	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
71	71	86.23	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
71	72	87.80	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
72	72	87.80	-1690.38	-29.80	-995.69	0	-1953.70	2	47.05	2	16.37	2.35	264.92
72	73	89.38	-1690.38	-29.80	-948.36	0	-1921.66	2	29.06	2	3.78	2.35	246.46
73	73	89.38	-1690.38	-29.80	-948.36	0	-2131.43	2	-9.62	2	-32.47	2.35	228.52
`	74	90.95	-1690.38	-29.80	-901.03	0	-2098.54	2	-23.82	2	-41.23	2.35	214.41
+	74	90.95	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
74	75	92.53	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
75	75	92.53	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
75	76	94.10	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
76	76	94.10	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
76	77	95.68	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45

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05/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:

fase1.ISO.To.Tinf

...tensadolsostático(t=0)). Tensiones a tiempo Tinf

...t)fase1.ISO.To

Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
77	78	97.25	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
78	78	97.25	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
78	79	98.83	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
79	79	98.83	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
79	80	100.40	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
80	80	100.40	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
80	81	101.98	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
81	81	101.98	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
81	82	103.55	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
82	82	103.55	-1690.38	29.80	-901.03	0	-2098.54	2	-23.82	2	-41.23	2.35	214.45
82	83	105.13	-1690.38	29.80	-948.36	0	-2131.43	2	-9.62	2	-32.47	2.35	228.52
83	83	105.13	-1690.38	29.80	-948.36	0	-1921.66	2	29.06	2	3.78	2.35	246.46
83	84	106.70	-1690.38	29.80	-995.69	0	-1953.70	2	47.05	2	16.37	2.35	264.92
84	84	106.70	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
84	85	108.28	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
85	85	108.28	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
85	86	109.85	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
86	86	109.85	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
86	87	111.43	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
87	87	111.43	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
87	88	112.00	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
88	88	112.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
88	89	113.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	1089	113.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	90	114.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
90	90	114.00	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
90	91	114.58	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
91	91	114.58	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
91	92	116.15	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
92	92	116.15	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
92	93	117.73	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
93	93	117.73	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
93	94	119.30	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
94	94	119.30	-1690.38	-29.80	-995.69	0	-1953.70	2	47.05	2	16.37	2.35	264.92
94	95	120.88	-1690.38	-29.80	-948.36	0	-1921.66	2	29.06	2	3.78	2.35	246.46
95	95	120.88	-1690.38	-29.80	-948.36	0	-2131.43	2	-9.62	2	-32.47	2.35	228.52
95	96	122.45	-1690.38	-29.80	-901.03	0	-2098.54	2	-23.82	2	-41.23	2.35	214.41
96	96	122.45	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
96	97	124.03	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
97	97	124.03	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
97	98	125.60	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
98	98	125.60	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
98	99	127.18	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
99	99	127.18	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
99	100	128.75	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
100	100	128.75	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
100	101	130.33	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
101	101	130.33	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
101	102	131.90	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
102	102	131.90	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
102	103	133.48	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
103	103	133.48	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
103	104	135.05	-1690.64	0.00	-901.17	0	-2098.86	2	-23.82	2	-41.23	2.35	214.45
104	104	135.05	-1690.38	29.80	-901.03	0	-2098.54	2	-23.82	2	-41.23	2.35	214.41
104	105	136.63	-1690.38	29.80	-948.36	0	-2131.43	2	-9.62	2	-32.47	2.35	228.52
105	105	136.63	-1690.38	29.80	-948.36	0	-1921.66	2	29.06	2	3.78	2.35	246.46
105	106	138.20	-1690.38	29.80	-995.69	0	-1953.70	2	47.05	2	16.37	2.35	264.92
106	106	138.20	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
106	107	139.78	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
107	107	139.78	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
107	108	141.35	-1153.60	0.00	-645.69	0	-1310.41	2	19.26	2	2.17	2.35	167.61
108	108	141.35	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
108	109	142.93	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
109	109	142.93	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
109	110	143.50	-616.56	0.00	-280.50	0	-656.63	2	-14.26	2	-16.02	2.35	64.39
110	110	143.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
110	111	144.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
111	1111	144.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
111	112	145.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
112	112	145.50	-501.48	0.00	-199.95	0	-514.99	2	-22.31	2	-20.53	2.35	41.37
112	113	145.68	-501.48	0.00	-199.95	0	-514.99	2	-22.31	2	-20.53	2.35	41.37
113	113	145.68	-501.48	0.00	-199.95	0	-514.99	2	-22.31	2	-20.53	2.35	41.37
113	114	146.85	-501.48	0.00	-199.95	0	-514.99	2	-22.31	2	-20.53	2.35	41.37
114	114	146.85	-923.44	0.00	-486.88	0	-1028.66	2	4.02	2	-6.24	2.35	122.47
114	115	148.03	-923.44	0.00	-486.88	0	-1028.66	2	4.02	2	-6.24	2.35	122.47

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase1.ISO.To.Tinf

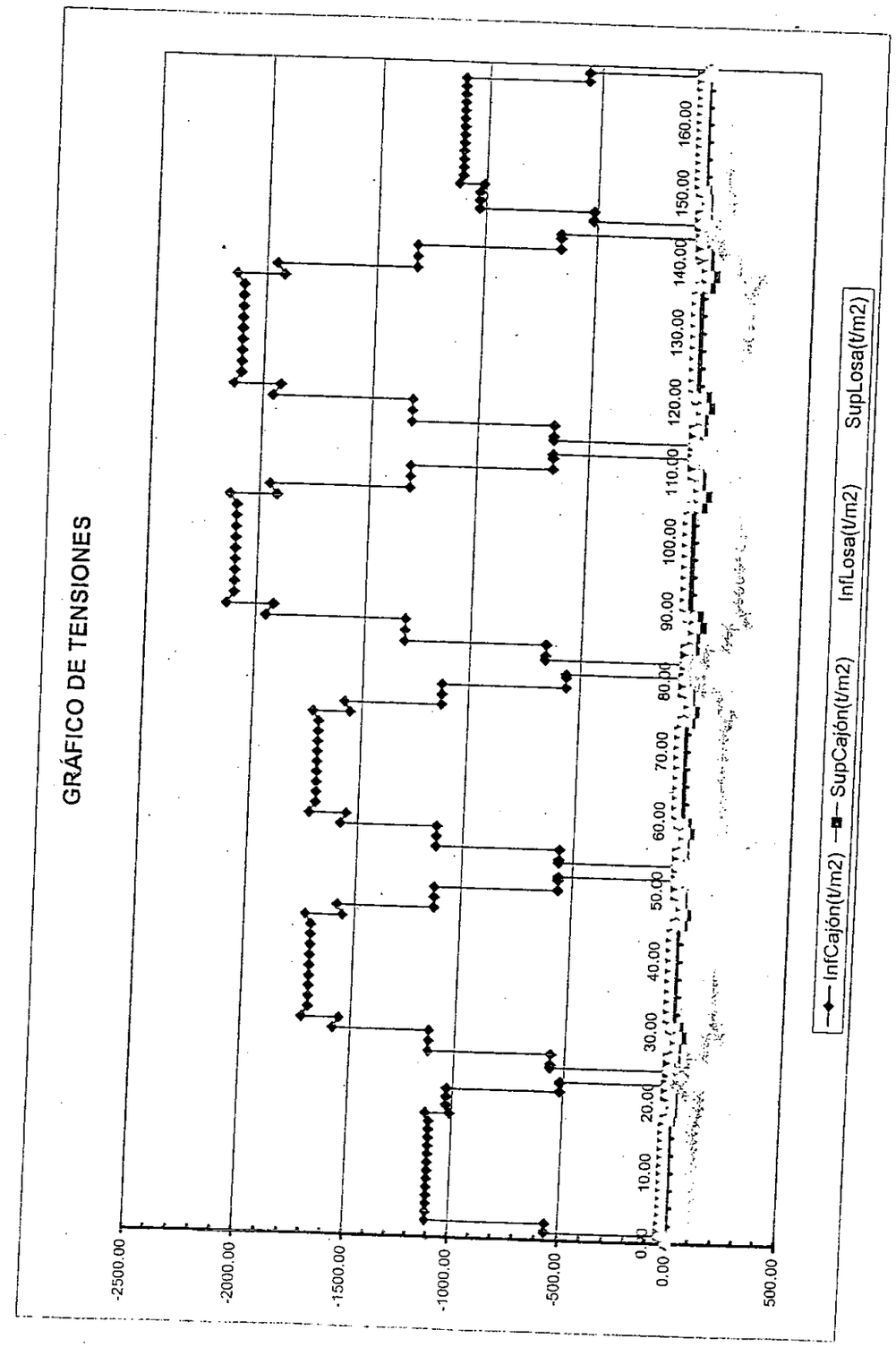
nsadolsostático(t=0)). Tensiones a tiempo Tinf

ase1 ISO To

Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-923.44	0.00	-486.88	0	-1028.66	2	4.02	2	-6.24	2.35	122.47
115	116	149.20	-923.44	0.00	-486.88	0	-1028.66	2	4.02	2	-6.24	2.35	122.47
116	116	149.20	-923.18	-21.82	-486.75	0	-1028.38	2	4.02	2	-6.23	2.35	122.44
116	117	150.38	-923.18	-21.82	-460.90	0	-1010.88	2	-5.80	2	-13.11	2.35	112.36
117	117	150.38	-923.18	-21.82	-460.90	0	-1124.42	2	-22.36	2	-28.28	2.35	107.81
117	118	151.55	-923.18	-21.82	-435.05	0	-1106.45	2	-30.12	2	-33.07	2.35	100.10
118	118	151.55	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
118	119	152.73	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
119	119	152.73	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
119	120	153.90	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
120	120	153.90	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
120	121	155.08	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
121	121	155.08	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
121	122	156.25	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
122	122	156.25	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
122	123	157.43	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
123	123	157.43	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
123	124	158.60	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
24	124	158.60	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
4	125	159.78	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
25	125	159.78	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
125	126	160.95	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
126	126	160.95	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
126	127	162.13	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
127	127	162.13	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
127	128	163.30	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
128	128	163.30	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
128	129	164.48	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
129	129	164.48	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
129	130	165.65	-923.44	0.00	-435.17	0	-1106.76	2	-30.13	2	-33.08	2.35	100.13
130	130	165.65	-501.48	0.00	-171.87	0	-556.24	2	-35.70	2	-29.89	2.35	35.17
130	131	166.83	-501.48	0.00	-171.87	0	-556.24	2	-35.70	2	-29.89	2.35	35.17
131	131	166.83	-501.48	0.00	-171.87	0	-556.24	2	-35.70	2	-29.89	2.35	35.17
131	132	167.00	-501.48	0.00	-171.87	0	-556.24	2	-35.70	2	-29.89	2.35	35.17
132	132	167.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
132	133	168.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

05/09/01
Programa DINTEL IDEAM S.A.
fase1.ISO.To.Tinf
hsim_tinf.xls



CÁLCULO TENSIONAL

Hipótesis de cálculo:
Prelosas.Tinf
opropioprelosas). Tensiones a tiempo Tinf
...\Prelosas
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-11.42	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-10.45	10.94	0	7.60	2	-3.28	2	-2.02	2.35	-3.26
2	2	1.00	0.00	-10.45	10.94	0	7.60	2	-3.28	2	-2.02	2.35	-3.26
2	3	1.18	0.00	-10.28	12.75	0	8.86	2	-3.83	2	-2.36	2.35	-3.80
3	3	1.18	0.00	-10.28	12.75	0	8.86	2	-3.83	2	-2.36	2.35	-3.80
3	4	2.35	0.00	-9.14	24.16	0	16.79	2	-7.25	2	-4.47	2.35	-7.20
4	4	2.35	0.00	-9.14	24.16	0	16.79	2	-7.25	2	-4.47	2.35	-7.20
4	5	3.53	0.00	-7.99	34.22	0	23.78	2	-10.27	2	-6.33	2.35	-10.20
5	5	3.53	0.00	-7.99	34.22	0	23.78	2	-10.27	2	-6.33	2.35	-10.20
5	6	4.70	0.00	-6.85	42.94	0	29.84	2	-12.88	2	-7.94	2.35	-12.80
6	6	4.70	0.00	-6.85	42.94	0	29.84	2	-12.88	2	-7.94	2.35	-12.80
6	7	5.88	0.00	-5.71	50.32	0	34.97	2	-15.10	2	-9.31	2.35	-15.00
7	7	5.88	0.00	-5.71	50.32	0	34.97	2	-15.10	2	-9.31	2.35	-15.00
7	8	7.05	0.00	-4.57	56.36	0	39.17	2	-16.91	2	-10.43	2.35	-16.80
8	8	7.05	0.00	-4.57	56.36	0	39.17	2	-16.91	2	-10.43	2.35	-16.80
8	9	8.23	0.00	-3.43	61.06	0	42.44	2	-18.32	2	-11.30	2.35	-18.20
9	9	8.23	0.00	-3.43	61.06	0	42.44	2	-18.32	2	-11.30	2.35	-18.20
9	10	9.40	0.00	-2.28	64.42	0	44.77	2	-19.33	2	-11.92	2.35	-19.20
10	10	9.40	0.00	-2.28	64.42	0	44.77	2	-19.33	2	-11.92	2.35	-19.20
10	11	10.58	0.00	-1.14	66.43	0	46.17	2	-19.93	2	-12.29	2.35	-19.80
11	11	10.58	0.00	-1.14	66.43	0	46.17	2	-19.93	2	-12.29	2.35	-19.80
11	12	11.75	0.00	0.00	67.10	0	46.63	2	-20.13	2	-12.41	2.35	-20.00
12	12	11.75	0.00	0.00	67.10	0	46.63	2	-20.13	2	-12.41	2.35	-20.00
12	13	12.93	0.00	1.14	66.43	0	46.17	2	-19.93	2	-12.29	2.35	-19.80
13	13	12.93	0.00	1.14	66.43	0	46.17	2	-19.93	2	-12.29	2.35	-19.80
13	14	14.10	0.00	2.28	64.42	0	44.77	2	-19.33	2	-11.92	2.35	-19.20
14	14	14.10	0.00	2.28	64.42	0	44.77	2	-19.33	2	-11.92	2.35	-19.20
14	15	15.28	0.00	3.43	61.06	0	42.44	2	-18.32	2	-11.30	2.35	-18.20
15	15	15.28	0.00	3.43	61.06	0	42.44	2	-18.32	2	-11.30	2.35	-18.20
15	16	16.45	0.00	4.57	56.37	0	39.18	2	-16.91	2	-10.43	2.35	-16.80
16	16	16.45	0.11	4.57	56.37	0	39.27	2	-16.89	2	-10.41	2.35	-16.79
16	17	17.63	0.13	5.71	50.33	0	35.09	2	-15.08	2	-9.30	2.35	-14.95
17	17	17.63	0.13	5.71	50.33	0	34.17	2	-19.10	2	-13.37	2.35	-19.62
17	18	18.80	0.16	6.85	42.95	0	29.20	2	-16.29	2	-11.40	2.35	-16.74
18	18	18.80	0.00	6.85	42.95	0	29.08	2	-16.32	2	-11.42	2.35	-16.75
18	19	19.98	0.00	8.00	34.22	0	23.17	2	-13.00	2	-9.10	2.35	-13.35
19	19	19.98	0.00	8.00	34.22	0	23.17	2	-13.00	2	-9.10	2.35	-13.35
19	20	21.15	0.00	9.14	24.16	0	16.36	2	-9.18	2	-6.43	2.35	-9.42
20	20	21.15	0.00	9.14	24.16	0	16.36	2	-9.18	2	-6.43	2.35	-9.42
20	21	22.33	0.00	10.28	12.75	0	8.63	2	-4.84	2	-3.39	2.35	-4.97
21	21	22.33	0.00	10.28	12.75	0	8.63	2	-4.84	2	-3.39	2.35	-4.97
21	22	22.50	0.00	10.45	10.94	0	7.41	2	-4.16	2	-2.91	2.35	-4.27
22	22	22.50	0.00	10.45	10.94	0	7.41	2	-4.16	2	-2.91	2.35	-4.27
22	23	23.50	0.00	11.42	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
	1023	23.50	0.00	-14.09	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
23	24	24.50	0.00	-13.12	13.61	0	9.21	2	-5.17	2	-3.62	2.35	-5.31
24	24	24.50	0.00	-13.12	13.61	0	9.21	2	-5.17	2	-3.62	2.35	-5.31
24	25	24.95	0.00	-12.69	19.42	0	13.15	2	-7.38	2	-5.17	2.35	-7.57
25	25	24.95	0.00	-12.69	19.42	0	13.15	2	-7.38	2	-5.17	2.35	-7.57
25	26	26.40	0.00	-11.28	36.79	0	24.91	2	-13.98	2	-9.79	2.35	-14.35
26	26	26.40	0.00	-11.28	36.79	0	24.91	2	-13.98	2	-9.79	2.35	-14.35
26	27	27.85	0.00	-9.87	52.11	0	35.28	2	-19.80	2	-13.86	2.35	-20.32
27	27	27.85	0.00	-9.87	52.11	0	35.28	2	-19.80	2	-13.86	2.35	-20.32
27	28	29.30	0.00	-8.46	65.40	0	44.28	2	-24.85	2	-17.40	2.35	-25.51
28	28	29.30	0.16	-8.46	65.40	0	44.40	2	-24.82	2	-17.37	2.35	-25.49
28	29	30.75	0.13	-7.05	76.64	0	51.98	2	-29.10	2	-20.37	2.35	-29.88
29	29	30.75	0.13	-7.05	76.64	0	53.38	2	-22.97	2	-14.16	2.35	-22.83
29	30	32.20	0.11	-5.64	85.84	0	59.75	2	-25.73	2	-15.87	2.35	-25.58
30	30	32.20	0.00	-5.64	85.84	0	59.66	2	-25.75	2	-15.88	2.35	-25.58
30	31	33.65	0.00	-4.23	92.99	0	64.63	2	-27.90	2	-17.20	2.35	-27.71
31	31	33.65	0.00	-4.23	92.99	0	64.63	2	-27.90	2	-17.20	2.35	-27.71
31	32	35.10	0.00	-2.82	98.10	0	68.18	2	-29.43	2	-18.15	2.35	-29.23
32	32	35.10	0.00	-2.82	98.10	0	68.18	2	-29.43	2	-18.15	2.35	-29.23
32	33	36.55	0.00	-1.41	101.16	0	70.31	2	-30.35	2	-18.71	2.35	-30.15
33	33	36.55	0.00	-1.41	101.16	0	70.31	2	-30.35	2	-18.71	2.35	-30.15
33	34	38.00	0.00	0.00	102.19	0	71.02	2	-30.66	2	-18.91	2.35	-30.45
34	34	38.00	0.00	0.00	102.19	0	71.02	2	-30.66	2	-18.91	2.35	-30.45
34	35	39.45	0.00	1.41	101.16	0	70.31	2	-30.35	2	-18.71	2.35	-30.15
	35	39.45	0.00	1.41	101.16	0	70.31	2	-30.35	2	-18.71	2.35	-30.15
	36	40.90	0.00	2.82	98.10	0	68.18	2	-29.43	2	-18.15	2.35	-29.23
	36	40.90	0.00	2.82	98.10	0	68.18	2	-29.43	2	-18.15	2.35	-29.23
36	37	42.35	0.00	4.23	92.99	0	64.63	2	-27.90	2	-17.20	2.35	-27.71
37	37	42.35	0.00	4.23	92.99	0	64.63	2	-27.90	2	-17.20	2.35	-27.71
37	38	43.80	0.00	5.64	85.84	0	59.66	2	-25.75	2	-15.88	2.35	-25.58
38	38	43.80	0.11	5.64	85.84	0	59.75	2	-25.73	2	-15.87	2.35	-25.58
38	39	45.25	0.13	7.05	76.64	0	53.38	2	-22.97	2	-14.16	2.35	-22.83

hsim_tinf.xls

Programa DINTEL IDEAM S.A.
Prelosas.Tinf

05/09/01

CÁLCULO TENSIONAL
Hipótesis de cálculo:
Prelosas.Tinf
Pesopropioprelosas). Tensiones a tiempo Tinf
...\Prelosas
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	0.13	7.05	76.64	0	51.98	2	-29.10	2	-20.37	2.35	-29.88
39	40	46.70	0.16	8.46	65.40	0	44.40	2	-24.82	2	-17.37	2.35	-25.49
40	40	46.70	0.00	8.46	65.40	0	44.28	2	-24.85	2	-17.40	2.35	-25.51
40	41	48.15	0.00	9.87	52.11	0	35.28	2	-19.80	2	-13.86	2.35	-20.32
41	41	48.15	0.00	9.87	52.11	0	35.28	2	-19.80	2	-13.86	2.35	-20.32
41	42	49.60	0.00	11.28	36.79	0	24.91	2	-13.98	2	-9.79	2.35	-14.35
42	42	49.60	0.00	11.28	36.79	0	24.91	2	-13.98	2	-9.79	2.35	-14.35
42	43	51.05	0.00	12.69	19.42	0	13.15	2	-7.38	2	-5.17	2.35	-7.57
43	43	51.05	0.00	12.69	19.42	0	13.15	2	-7.38	2	-5.17	2.35	-7.57
43	44	51.50	0.00	13.12	13.61	0	9.21	2	-5.17	2	-3.62	2.35	-5.31
44	44	51.50	0.00	13.12	13.61	0	9.21	2	-5.17	2	-3.62	2.35	-5.31
44	45	52.50	0.00	14.09	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	1045	52.50	0.00	-14.09	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	46	53.50	0.00	-13.12	13.61	0	9.21	2	-5.17	2	-3.62	2.35	-5.31
46	46	53.50	0.00	-13.12	13.61	0	9.21	2	-5.17	2	-3.62	2.35	-5.31
46	47	53.95	0.00	-12.69	19.42	0	13.15	2	-7.38	2	-5.17	2.35	-7.57
47	47	53.95	0.00	-12.69	19.42	0	13.15	2	-7.38	2	-5.17	2.35	-7.57
47	48	55.40	0.00	-11.28	36.79	0	24.91	2	-13.98	2	-9.79	2.35	-14.35
48	48	55.40	0.00	-11.28	36.79	0	24.91	2	-13.98	2	-9.79	2.35	-14.35
48	49	56.85	0.00	-9.87	52.11	0	35.28	2	-19.80	2	-13.86	2.35	-20.32
49	49	56.85	0.00	-9.87	52.11	0	35.28	2	-19.80	2	-13.86	2.35	-20.32
49	50	58.30	0.00	-8.46	65.40	0	44.28	2	-24.85	2	-17.40	2.35	-25.51
50	50	58.30	0.16	-8.46	65.40	0	44.40	2	-24.82	2	-17.37	2.35	-25.49
50	51	59.75	0.13	-7.05	76.64	0	51.98	2	-29.10	2	-20.37	2.35	-29.88
51	51	59.75	0.13	-7.05	76.64	0	53.38	2	-22.97	2	-14.16	2.35	-22.83
51	52	61.20	0.11	-5.64	85.84	0	59.75	2	-25.73	2	-15.87	2.35	-25.58
52	52	61.20	0.00	-5.64	85.84	0	59.66	2	-25.75	2	-15.88	2.35	-25.58
52	53	62.65	0.00	-4.23	92.99	0	64.63	2	-27.90	2	-17.20	2.35	-27.71
53	53	62.65	0.00	-4.23	92.99	0	64.63	2	-27.90	2	-17.20	2.35	-27.71
53	54	64.10	0.00	-2.82	98.10	0	68.18	2	-29.43	2	-18.15	2.35	-29.23
54	54	64.10	0.00	-2.82	98.10	0	68.18	2	-29.43	2	-18.15	2.35	-29.23
54	55	65.55	0.00	-1.41	101.16	0	70.31	2	-30.35	2	-18.71	2.35	-30.15
55	55	65.55	0.00	-1.41	101.16	0	70.31	2	-30.35	2	-18.71	2.35	-30.15
55	56	67.00	0.00	0.00	102.19	0	71.02	2	-30.66	2	-18.91	2.35	-30.45
56	56	67.00	0.00	0.00	102.19	0	71.02	2	-30.66	2	-18.91	2.35	-30.45
56	57	68.45	0.00	1.41	101.16	0	70.31	2	-30.35	2	-18.71	2.35	-30.15
57	57	68.45	0.00	1.41	101.16	0	70.31	2	-30.35	2	-18.71	2.35	-30.15
57	58	69.90	0.00	2.82	98.10	0	68.18	2	-29.43	2	-18.15	2.35	-29.23
58	58	69.90	0.00	2.82	98.10	0	68.18	2	-29.43	2	-18.15	2.35	-29.23
58	59	71.35	0.00	4.23	92.99	0	64.63	2	-27.90	2	-17.20	2.35	-27.71
59	59	71.35	0.00	4.23	92.99	0	64.63	2	-27.90	2	-17.20	2.35	-27.71
59	60	72.80	0.00	5.64	85.84	0	59.66	2	-25.75	2	-15.88	2.35	-25.58
60	60	72.80	0.11	5.64	85.84	0	59.75	2	-25.73	2	-15.87	2.35	-25.58
60	61	74.25	0.13	7.05	76.64	0	53.38	2	-22.97	2	-14.16	2.35	-22.83
61	61	74.25	0.13	7.05	76.64	0	51.98	2	-29.10	2	-20.37	2.35	-29.88
61	62	75.70	0.16	8.46	65.40	0	44.40	2	-24.82	2	-17.37	2.35	-25.49
62	62	75.70	0.00	8.46	65.40	0	44.28	2	-24.85	2	-17.40	2.35	-25.51
62	63	77.15	0.00	9.87	52.11	0	35.28	2	-19.80	2	-13.86	2.35	-20.32
63	63	77.15	0.00	9.87	52.11	0	35.28	2	-19.80	2	-13.86	2.35	-20.32
63	64	78.60	0.00	11.28	36.79	0	24.91	2	-13.98	2	-9.79	2.35	-14.35
64	64	78.60	0.00	11.28	36.79	0	24.91	2	-13.98	2	-9.79	2.35	-14.35
64	65	80.05	0.00	12.69	19.42	0	13.15	2	-7.38	2	-5.17	2.35	-7.57
65	65	80.05	0.00	12.69	19.42	0	13.15	2	-7.38	2	-5.17	2.35	-7.57
65	66	80.50	0.00	13.12	13.61	0	9.21	2	-5.17	2	-3.62	2.35	-5.31
66	66	80.50	0.00	13.12	13.61	0	9.21	2	-5.17	2	-3.62	2.35	-5.31
66	67	81.50	0.00	14.09	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	1067	81.50	0.00	-15.31	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	68	82.50	0.00	-14.34	14.82	0	10.03	2	-5.63	2	-3.94	2.35	-5.78
68	68	82.50	0.00	-14.34	14.82	0	10.03	2	-5.63	2	-3.94	2.35	-5.78
68	69	83.08	0.00	-13.78	22.91	0	15.51	2	-8.71	2	-6.09	2.35	-8.93
69	69	83.08	0.00	-13.78	22.91	0	15.51	2	-8.71	2	-6.09	2.35	-8.93
69	70	84.65	0.00	-12.25	43.40	0	29.38	2	-16.49	2	-11.54	2.35	-16.93
70	70	84.65	0.00	-12.25	43.40	0	29.38	2	-16.49	2	-11.54	2.35	-16.93
70	71	86.23	0.00	-10.72	61.49	0	41.63	2	-23.37	2	-16.36	2.35	-23.98
71	71	86.23	0.00	-10.72	61.49	0	41.63	2	-23.37	2	-16.36	2.35	-23.98
71	72	87.80	0.00	-9.19	77.16	0	52.24	2	-29.32	2	-20.52	2.35	-30.09
72	72	87.80	0.16	-9.18	77.16	0	52.36	2	-29.29	2	-20.50	2.35	-30.08
72	73	89.38	0.13	-7.65	90.42	0	61.31	2	-34.33	2	-24.03	2.35	-35.25
73	73	89.38	0.13	-7.65	90.42	0	62.96	2	-27.10	2	-16.71	2.35	-26.94
73	74	90.95	0.11	-6.12	101.27	0	70.48	2	-30.36	2	-18.72	2.35	-30.17
74	74	90.95	0.00	-6.12	101.27	0	70.38	2	-30.38	2	-18.73	2.35	-30.18
74	75	92.53	0.00	-4.59	109.71	0	76.25	2	-32.91	2	-20.30	2.35	-32.69
75	75	92.53	0.00	-4.59	109.71	0	76.25	2	-32.91	2	-20.30	2.35	-32.69
75	76	94.10	0.00	-3.06	115.74	0	80.44	2	-34.72	2	-21.41	2.35	-34.49
76	76	94.10	0.00	-3.06	115.74	0	80.44	2	-34.72	2	-21.41	2.35	-34.49
76	77	95.68	0.00	-1.53	119.36	0	82.96	2	-35.81	2	-22.08	2.35	-35.57

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Prelosas.Tinf
propioprelosas). Tensiones a tiempo Tinf
...)Prelosas
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-1.53	119.36	0	82.96	2	-35.81	2	-22.08	2.35	-35.57
77	78	97.25	0.00	0.00	120.56	0	83.79	2	-36.17	2	-22.30	2.35	-35.93
78	78	97.25	0.00	0.00	120.56	0	83.79	2	-36.17	2	-22.30	2.35	-35.93
78	79	98.83	0.00	1.53	119.36	0	82.96	2	-35.81	2	-22.08	2.35	-35.57
79	79	98.83	0.00	1.53	119.36	0	82.96	2	-35.81	2	-22.08	2.35	-35.57
79	80	100.40	0.00	3.06	115.74	0	80.44	2	-34.72	2	-21.41	2.35	-34.49
80	80	100.40	0.00	3.06	115.74	0	80.44	2	-34.72	2	-21.41	2.35	-34.49
80	81	101.98	0.00	4.59	109.71	0	76.25	2	-32.91	2	-20.30	2.35	-32.69
81	81	101.98	0.00	4.59	109.71	0	76.25	2	-32.91	2	-20.30	2.35	-32.69
81	82	103.55	0.00	6.12	101.27	0	70.38	2	-30.38	2	-18.73	2.35	-30.18
82	82	103.55	0.11	6.12	101.27	0	70.48	2	-30.36	2	-18.72	2.35	-30.17
82	83	105.13	0.13	7.65	90.42	0	62.96	2	-27.10	2	-16.71	2.35	-26.94
83	83	105.13	0.13	7.65	90.42	0	61.31	2	-34.33	2	-24.03	2.35	-35.25
83	84	106.70	0.16	9.18	77.16	0	52.36	2	-29.29	2	-20.50	2.35	-30.08
84	84	106.70	0.00	9.19	77.16	0	52.24	2	-29.32	2	-20.52	2.35	-30.09
84	85	108.28	0.00	10.72	61.49	0	41.63	2	-23.37	2	-16.36	2.35	-23.98
85	85	108.28	0.00	10.72	61.49	0	41.63	2	-23.37	2	-16.36	2.35	-23.98
85	86	109.85	0.00	12.25	43.40	0	29.38	2	-16.49	2	-11.54	2.35	-16.93
86	86	109.85	0.00	12.25	43.40	0	29.38	2	-16.49	2	-11.54	2.35	-16.93
86	87	111.43	0.00	13.78	22.91	0	15.51	2	-8.71	2	-6.09	2.35	-8.93
87	87	111.43	0.00	13.78	22.91	0	15.51	2	-8.71	2	-6.09	2.35	-8.93
87	88	112.00	0.00	14.34	14.82	0	10.03	2	-5.63	2	-3.94	2.35	-5.78
88	88	112.00	0.00	14.34	14.82	0	10.03	2	-5.63	2	-3.94	2.35	-5.78
88	89	113.00	0.00	15.31	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	1089	113.00	0.00	-15.31	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	90	114.00	0.00	-14.34	14.82	0	10.03	2	-5.63	2	-3.94	2.35	-5.78
90	90	114.00	0.00	-14.34	14.82	0	10.03	2	-5.63	2	-3.94	2.35	-5.78
90	91	114.58	0.00	-13.78	22.91	0	15.51	2	-8.71	2	-6.09	2.35	-8.93
91	91	114.58	0.00	-13.78	22.91	0	15.51	2	-8.71	2	-6.09	2.35	-8.93
91	92	116.15	0.00	-12.25	43.40	0	29.38	2	-16.49	2	-11.54	2.35	-16.93
92	92	116.15	0.00	-12.25	43.40	0	29.38	2	-16.49	2	-11.54	2.35	-16.93
92	93	117.73	0.00	-10.72	61.49	0	41.63	2	-23.37	2	-16.36	2.35	-23.98
93	93	117.73	0.00	-10.72	61.49	0	41.63	2	-23.37	2	-16.36	2.35	-23.98
93	94	119.30	0.00	-9.19	77.16	0	52.24	2	-29.32	2	-20.52	2.35	-30.09
94	94	119.30	0.16	-9.18	77.16	0	52.36	2	-29.29	2	-20.50	2.35	-30.08
94	95	120.88	0.13	-7.65	90.42	0	61.31	2	-34.33	2	-24.03	2.35	-35.25
95	95	120.88	0.13	-7.65	90.42	0	62.96	2	-27.10	2	-16.71	2.35	-26.94
95	96	122.45	0.11	-6.12	101.27	0	70.48	2	-30.36	2	-18.72	2.35	-30.17
96	96	122.45	0.00	-6.12	101.27	0	70.38	2	-30.38	2	-18.73	2.35	-30.18
96	97	124.03	0.00	-4.59	109.71	0	76.25	2	-32.91	2	-20.30	2.35	-32.69
97	97	124.03	0.00	-4.59	109.71	0	76.25	2	-32.91	2	-20.30	2.35	-32.69
97	98	125.60	0.00	-3.06	115.74	0	80.44	2	-34.72	2	-21.41	2.35	-34.49
98	98	125.60	0.00	-3.06	115.74	0	80.44	2	-34.72	2	-21.41	2.35	-34.49
98	99	127.18	0.00	-1.53	119.36	0	82.96	2	-35.81	2	-22.08	2.35	-35.57
)	99	127.18	0.00	-1.53	119.36	0	82.96	2	-35.81	2	-22.08	2.35	-35.57
)	100	128.75	0.00	0.00	120.56	0	83.79	2	-36.17	2	-22.30	2.35	-35.93
100	100	128.75	0.00	0.00	120.56	0	83.79	2	-36.17	2	-22.30	2.35	-35.93
100	101	130.33	0.00	1.53	119.36	0	82.96	2	-35.81	2	-22.08	2.35	-35.57
101	101	130.33	0.00	1.53	119.36	0	82.96	2	-35.81	2	-22.08	2.35	-35.57
101	102	131.90	0.00	3.06	115.74	0	80.44	2	-34.72	2	-21.41	2.35	-34.49
102	102	131.90	0.00	3.06	115.74	0	80.44	2	-34.72	2	-21.41	2.35	-34.49
102	103	133.48	0.00	4.59	109.71	0	76.25	2	-32.91	2	-20.30	2.35	-32.69
103	103	133.48	0.00	4.59	109.71	0	76.25	2	-32.91	2	-20.30	2.35	-32.69
103	104	135.05	0.00	6.12	101.27	0	70.38	2	-30.38	2	-18.73	2.35	-30.18
104	104	135.05	0.11	6.12	101.27	0	70.48	2	-30.36	2	-18.72	2.35	-30.17
104	105	136.63	0.13	7.65	90.42	0	62.96	2	-27.10	2	-16.71	2.35	-26.94
105	105	136.63	0.13	7.65	90.42	0	61.31	2	-34.33	2	-24.03	2.35	-35.25
105	106	138.20	0.16	9.18	77.16	0	52.36	2	-29.29	2	-20.50	2.35	-30.08
106	106	138.20	0.00	9.19	77.16	0	52.24	2	-29.32	2	-20.52	2.35	-30.09
106	107	139.78	0.00	10.72	61.49	0	41.63	2	-23.37	2	-16.36	2.35	-23.98
107	107	139.78	0.00	10.72	61.49	0	41.63	2	-23.37	2	-16.36	2.35	-23.98
107	108	141.35	0.00	12.25	43.40	0	29.38	2	-16.49	2	-11.54	2.35	-16.93
108	108	141.35	0.00	12.25	43.40	0	29.38	2	-16.49	2	-11.54	2.35	-16.93
108	109	142.93	0.00	13.78	22.91	0	15.51	2	-8.71	2	-6.09	2.35	-8.93
109	109	142.93	0.00	13.78	22.91	0	15.51	2	-8.71	2	-6.09	2.35	-8.93
109	110	143.50	0.00	14.34	14.82	0	10.03	2	-5.63	2	-3.94	2.35	-5.78
110	110	143.50	0.00	14.34	14.82	0	10.03	2	-5.63	2	-3.94	2.35	-5.78
110	111	144.50	0.00	15.31	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
11	1111	144.50	0.00	-11.42	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
)	112	145.50	0.00	-10.45	10.94	0	7.41	2	-4.16	2	-2.91	2.35	-4.27
) _	112	145.50	0.00	-10.45	10.94	0	7.41	2	-4.16	2	-2.91	2.35	-4.27
112	113	145.68	0.00	-10.28	12.75	0	8.63	2	-4.84	2	-3.39	2.35	-4.97
113	113	145.68	0.00	-10.28	12.75	0	8.63	2	-4.84	2	-3.39	2.35	-4.97
113	114	146.85	0.00	-9.14	24.16	0	16.36	2	-9.18	2	-6.43	2.35	-9.42
114	114	146.85	0.00	-9.14	24.16	0	16.36	2	-9.18	2	-6.43	2.35	-9.42
114	115	148.03	0.00	-8.00	34.22	0	23.17	2	-13.00	2	-9.10	2.35	-13.35

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05/09/01

CÁLCULO TENSIONAL

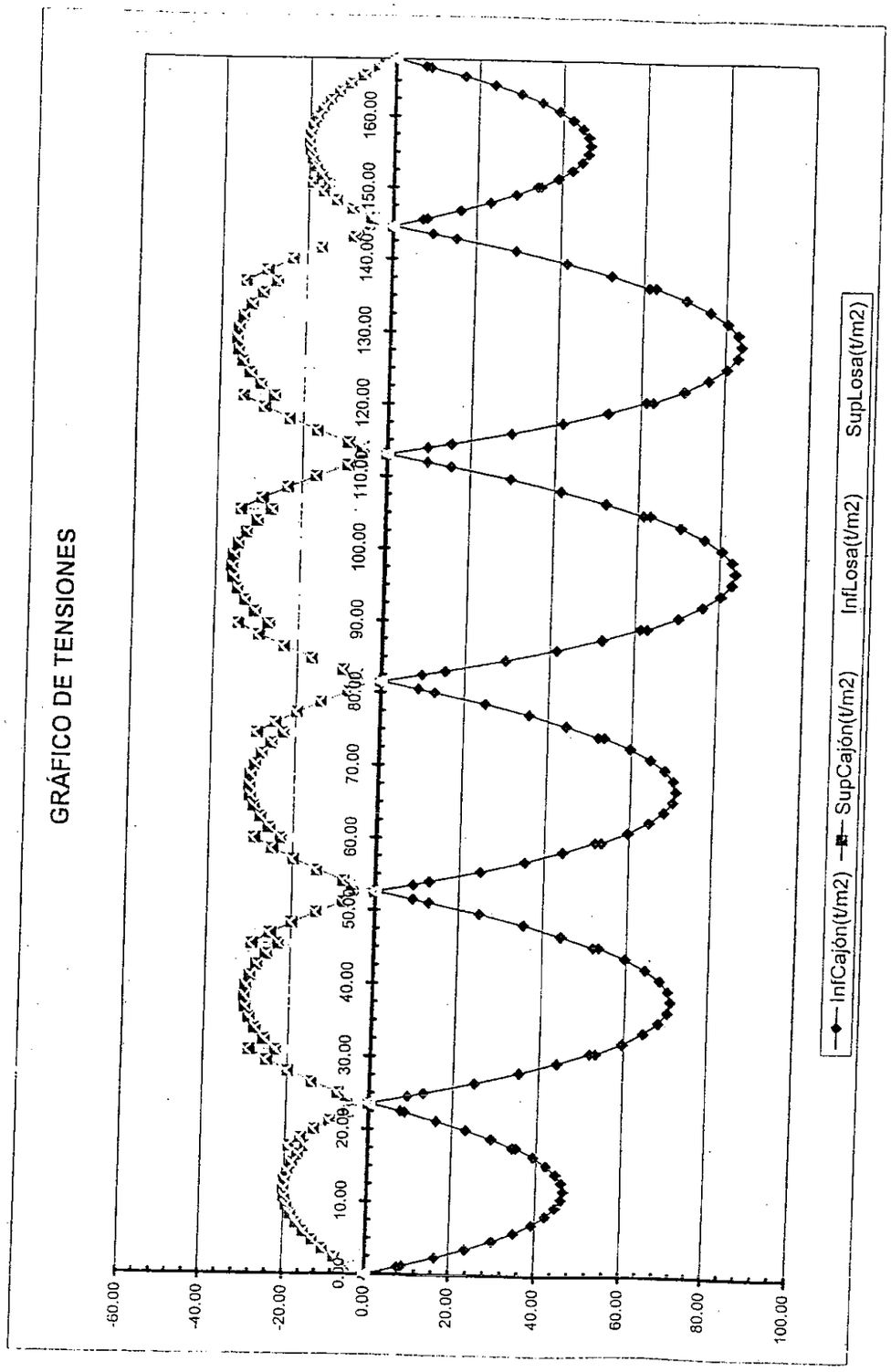
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Prelosas.Tinf
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...)Prelosas
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Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	-8.00	34.22	0	23.17	2	-13.00	2	-9.10	2.35	-13.35
115	116	149.20	0.00	-6.85	42.95	0	29.08	2	-16.32	2	-11.42	2.35	-16.75
116	116	149.20	0.16	-6.85	42.95	0	29.20	2	-16.29	2	-11.40	2.35	-16.74
116	117	150.38	0.13	-5.71	50.33	0	34.17	2	-19.10	2	-13.37	2.35	-19.62
117	117	150.38	0.13	-5.71	50.33	0	35.09	2	-15.08	2	-9.30	2.35	-14.99
117	118	151.55	0.11	-4.57	56.37	0	39.27	2	-16.89	2	-10.41	2.35	-16.79
118	118	151.55	0.00	-4.57	56.37	0	39.18	2	-16.91	2	-10.43	2.35	-16.80
118	119	152.73	0.00	-3.43	61.06	0	42.44	2	-18.32	2	-11.30	2.35	-18.20
119	119	152.73	0.00	-3.43	61.06	0	42.44	2	-18.32	2	-11.30	2.35	-18.20
119	120	153.90	0.00	-2.28	64.42	0	44.77	2	-19.33	2	-11.92	2.35	-19.20
120	120	153.90	0.00	-2.28	64.42	0	44.77	2	-19.33	2	-11.92	2.35	-19.20
120	121	155.08	0.00	-1.14	66.43	0	46.17	2	-19.93	2	-12.29	2.35	-19.80
121	121	155.08	0.00	-1.14	66.43	0	46.17	2	-19.93	2	-12.29	2.35	-19.80
121	122	156.25	0.00	0.00	67.10	0	46.63	2	-20.13	2	-12.41	2.35	-20.00
122	122	156.25	0.00	0.00	67.10	0	46.63	2	-20.13	2	-12.41	2.35	-20.00
122	123	157.43	0.00	1.14	66.43	0	46.17	2	-19.93	2	-12.29	2.35	-19.80
123	123	157.43	0.00	1.14	66.43	0	46.17	2	-19.93	2	-12.29	2.35	-19.80
123	124	158.60	0.00	2.28	64.42	0	44.77	2	-19.33	2	-11.92	2.35	-19.20
124	124	158.60	0.00	2.28	64.42	0	44.77	2	-19.33	2	-11.92	2.35	-19.20
124	125	159.78	0.00	3.43	61.06	0	42.44	2	-18.32	2	-11.30	2.35	-18.20
125	125	159.78	0.00	3.43	61.06	0	42.44	2	-18.32	2	-11.30	2.35	-18.20
125	126	160.95	0.00	4.57	56.36	0	39.17	2	-16.91	2	-10.43	2.35	-16.80
126	126	160.95	0.00	4.57	56.36	0	39.17	2	-16.91	2	-10.43	2.35	-16.80
126	127	162.13	0.00	5.71	50.32	0	34.97	2	-15.10	2	-9.31	2.35	-15.00
127	127	162.13	0.00	5.71	50.32	0	34.97	2	-15.10	2	-9.31	2.35	-15.00
127	128	163.30	0.00	6.85	42.94	0	29.84	2	-12.88	2	-7.94	2.35	-12.80
128	128	163.30	0.00	6.85	42.94	0	29.84	2	-12.88	2	-7.94	2.35	-12.80
128	129	164.48	0.00	7.99	34.22	0	23.78	2	-10.27	2	-6.33	2.35	-10.20
129	129	164.48	0.00	7.99	34.22	0	23.78	2	-10.27	2	-6.33	2.35	-10.20
129	130	165.65	0.00	9.14	24.16	0	16.79	2	-7.25	2	-4.47	2.35	-7.20
130	130	165.65	0.00	9.14	24.16	0	16.79	2	-7.25	2	-4.47	2.35	-7.20
130	131	166.83	0.00	10.28	12.75	0	8.86	2	-3.83	2	-2.36	2.35	-3.80
131	131	166.83	0.00	10.28	12.75	0	8.86	2	-3.83	2	-2.36	2.35	-3.80
131	132	167.00	0.00	10.45	10.93	0	7.60	2	-3.28	2	-2.02	2.35	-3.26
132	132	167.00	0.00	10.45	10.93	0	7.60	2	-3.28	2	-2.02	2.35	-3.26
132	133	168.00	0.00	11.42	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
HBCV.Tinf
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1)HBCV
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Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-34.25	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-31.27	32.76	0	22.77	2	-9.83	2	-6.06	2.35	-9.76
2	2	1.00	0.00	-31.27	32.76	0	22.77	2	-9.83	2	-6.06	2.35	-9.76
2	3	1.18	0.00	-30.75	38.19	0	26.54	2	-11.46	2	-7.07	2.35	-11.38
3	3	1.18	0.00	-30.75	38.19	0	26.54	2	-11.46	2	-7.07	2.35	-11.38
3	4	2.35	0.00	-27.24	72.25	0	50.21	2	-21.68	2	-13.37	2.35	-21.53
4	4	2.35	0.00	-27.24	72.25	0	50.21	2	-21.68	2	-13.37	2.35	-21.53
4	5	3.53	0.00	-23.74	102.21	0	71.04	2	-30.66	2	-18.91	2.35	-30.46
5	5	3.53	0.00	-23.74	102.21	0	71.04	2	-30.66	2	-18.91	2.35	-30.46
5	6	4.70	0.00	-20.24	128.04	0	88.99	2	-38.41	2	-23.69	2.35	-38.16
6	6	4.70	0.00	-20.24	128.04	0	88.99	2	-38.41	2	-23.69	2.35	-38.16
6	7	5.88	0.00	-16.73	149.76	0	104.08	2	-44.93	2	-27.71	2.35	-44.63
7	7	5.88	0.00	-16.73	149.76	0	104.08	2	-44.93	2	-27.71	2.35	-44.63
7	8	7.05	0.00	-13.23	167.36	0	116.32	2	-50.21	2	-30.96	2.35	-49.87
8	8	7.05	0.00	-13.23	167.36	0	116.32	2	-50.21	2	-30.96	2.35	-49.87
8	9	8.23	0.00	-9.72	180.84	0	125.68	2	-54.25	2	-33.46	2.35	-53.89
9	9	8.23	0.00	-9.72	180.84	0	125.68	2	-54.25	2	-33.46	2.35	-53.89
9	10	9.40	0.00	-6.22	190.21	0	132.20	2	-57.06	2	-35.19	2.35	-56.68
10	10	9.40	0.00	-6.22	190.21	0	132.20	2	-57.06	2	-35.19	2.35	-56.68
10	11	10.58	0.00	-2.72	195.46	0	135.84	2	-58.64	2	-36.16	2.35	-58.25
11	11	10.58	0.00	-2.72	195.46	0	135.84	2	-58.64	2	-36.16	2.35	-58.25
11	12	11.75	0.00	0.79	196.59	0	136.63	2	-58.98	2	-36.37	2.35	-58.58
12	12	11.75	0.00	0.79	196.59	0	136.63	2	-58.98	2	-36.37	2.35	-58.58
12	13	12.93	0.00	4.29	193.61	0	134.56	2	-58.08	2	-35.82	2.35	-57.70
13	13	12.93	0.00	4.29	193.61	0	134.56	2	-58.08	2	-35.82	2.35	-57.70
13	14	14.10	0.00	7.80	186.51	0	129.62	2	-55.95	2	-34.50	2.35	-55.58
14	14	14.10	0.00	7.80	186.51	0	129.62	2	-55.95	2	-34.50	2.35	-55.58
14	15	15.28	0.00	11.30	175.29	0	121.83	2	-52.59	2	-32.43	2.35	-52.24
15	15	15.28	0.00	11.30	175.29	0	121.83	2	-52.59	2	-32.43	2.35	-52.24
15	16	16.45	0.00	14.80	159.95	0	111.17	2	-47.99	2	-29.59	2.35	-47.67
16	16	16.45	0.35	14.80	159.95	0	111.47	2	-47.92	2	-29.55	2.35	-47.65
16	17	17.63	0.43	18.30	140.50	0	98.02	2	-42.08	2	-25.94	2.35	-41.86
17	17	17.63	0.43	18.30	140.50	0	95.44	2	-53.31	2	-37.31	2.35	-54.76
17	18	18.80	0.52	21.81	116.93	0	79.56	2	-44.33	2	-31.03	2.35	-45.56
18	18	18.80	0.00	21.81	116.93	0	79.16	2	-44.43	2	-31.10	2.35	-45.60
18	19	19.98	0.00	25.32	89.24	0	60.42	2	-33.91	2	-23.74	2.35	-34.80
19	19	19.98	0.00	25.32	89.24	0	60.42	2	-33.91	2	-23.74	2.35	-34.80
19	20	21.15	0.00	25.32	59.49	0	40.27	2	-22.61	2	-15.82	2.35	-23.20
20	20	21.15	0.00	25.32	59.49	0	40.27	2	-22.61	2	-15.82	2.35	-23.20
20	21	22.33	0.00	25.32	29.75	0	20.14	2	-11.31	2	-7.91	2.35	-11.60
21	21	22.33	0.00	25.32	29.75	0	20.14	2	-11.31	2	-7.91	2.35	-11.60
21	22	22.50	0.00	25.32	25.32	0	17.14	2	-9.62	2	-6.74	2.35	-9.87
22	22	22.50	0.00	25.32	25.32	0	17.14	2	-9.62	2	-6.74	2.35	-9.87
22	23	23.50	0.00	25.32	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
23	1023	23.50	0.00	-30.27	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
23	24	24.50	0.00	-30.27	30.27	0	20.49	2	-11.50	2	-8.05	2.35	-11.81
24	24	24.50	0.00	-30.27	30.27	0	20.49	2	-11.50	2	-8.05	2.35	-11.81
24	25	24.95	0.00	-30.27	43.89	0	29.71	2	-16.68	2	-11.67	2.35	-17.12
25	25	24.95	0.00	-30.27	43.89	0	29.71	2	-16.68	2	-11.67	2.35	-17.12
25	26	26.40	0.00	-30.27	87.78	0	59.43	2	-33.36	2	-23.35	2.35	-34.23
26	26	26.40	0.00	-30.27	87.78	0	59.43	2	-33.36	2	-23.35	2.35	-34.23
26	27	27.85	0.00	-30.27	131.67	0	89.14	2	-50.03	2	-35.02	2.35	-51.35
27	27	27.85	0.00	-30.27	131.67	0	89.14	2	-50.03	2	-35.02	2.35	-51.35
27	28	29.30	0.00	-25.95	172.42	0	116.73	2	-65.52	2	-45.86	2.35	-67.24
28	28	29.30	0.50	-25.94	172.42	0	117.11	2	-65.42	2	-45.79	2.35	-67.21
28	29	30.75	0.41	-21.62	206.91	0	140.39	2	-78.55	2	-54.98	2.35	-80.66
29	29	30.75	0.41	-21.62	206.91	0	144.16	2	-62.00	2	-38.23	2.35	-61.65
29	30	32.20	0.33	-17.29	235.12	0	163.70	2	-70.48	2	-43.46	2.35	-70.06
30	30	32.20	0.00	-17.30	235.12	0	163.41	2	-70.54	2	-43.50	2.35	-70.07
30	31	33.65	0.00	-12.97	257.07	0	178.66	2	-77.12	2	-47.56	2.35	-76.61
31	31	33.65	0.00	-12.97	257.07	0	178.66	2	-77.12	2	-47.56	2.35	-76.61
31	32	35.10	0.00	-8.65	272.74	0	189.55	2	-81.82	2	-50.46	2.35	-81.28
32	32	35.10	0.00	-8.65	272.74	0	189.55	2	-81.82	2	-50.46	2.35	-81.28
32	33	36.55	0.00	-4.32	282.15	0	196.09	2	-84.65	2	-52.20	2.35	-84.08
33	33	36.55	0.00	-4.32	282.15	0	196.09	2	-84.65	2	-52.20	2.35	-84.08
33	34	38.00	0.00	0.00	285.28	0	198.27	2	-85.58	2	-52.78	2.35	-85.01
34	34	38.00	0.00	0.00	285.28	0	198.27	2	-85.58	2	-52.78	2.35	-85.01
34	35	39.45	0.00	4.32	282.15	0	196.09	2	-84.65	2	-52.20	2.35	-84.08
35	35	39.45	0.00	4.32	282.15	0	196.09	2	-84.65	2	-52.20	2.35	-84.08
35	36	40.90	0.00	8.65	272.74	0	189.55	2	-81.82	2	-50.46	2.35	-81.28
36	36	40.90	0.00	8.65	272.74	0	189.55	2	-81.82	2	-50.46	2.35	-81.28
36	37	42.35	0.00	12.97	257.07	0	178.66	2	-77.12	2	-47.56	2.35	-76.61
37	37	42.35	0.00	12.97	257.07	0	178.66	2	-77.12	2	-47.56	2.35	-76.61
37	38	43.80	0.00	17.30	235.12	0	163.41	2	-70.54	2	-43.50	2.35	-70.07
38	38	43.80	0.33	17.29	235.12	0	163.70	2	-70.48	2	-43.46	2.35	-70.06
38	39	45.25	0.41	21.62	206.91	0	144.16	2	-62.00	2	-38.23	2.35	-61.65



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CÁLCULO TENSIONAL

Hipótesis de cálculo:
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...igonadoBCvanos). Tensiones a tiempo Tinf
(..., 1)HBCV
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	0.41	21.62	206.91	0	140.39	2	-78.55	2	-54.98	2.35	-80.66
39	40	46.70	0.50	25.94	172.42	0	117.11	2	-65.42	2	-45.79	2.35	-67.21
40	40	46.70	0.00	25.95	172.42	0	116.73	2	-65.52	2	-45.86	2.35	-67.24
40	41	48.15	0.00	30.27	131.67	0	89.14	2	-50.03	2	-35.02	2.35	-51.35
41	41	48.15	0.00	30.27	131.67	0	89.14	2	-50.03	2	-35.02	2.35	-51.35
41	42	49.60	0.00	30.27	87.78	0	59.43	2	-33.36	2	-23.35	2.35	-34.23
42	42	49.60	0.00	30.27	87.78	0	59.43	2	-33.36	2	-23.35	2.35	-34.23
42	43	51.05	0.00	30.27	43.89	0	29.71	2	-16.68	2	-11.67	2.35	-17.12
43	43	51.05	0.00	30.27	43.89	0	29.71	2	-16.68	2	-11.67	2.35	-17.12
43	44	51.50	0.00	30.27	30.27	0	20.49	2	-11.50	2	-8.05	2.35	-11.81
44	44	51.50	0.00	30.27	30.27	0	20.49	2	-11.50	2	-8.05	2.35	-11.81
44	45	52.50	0.00	30.27	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	1045	52.50	0.00	-30.27	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	46	53.50	0.00	-30.27	30.27	0	20.49	2	-11.50	2	-8.05	2.35	-11.81
46	46	53.50	0.00	-30.27	30.27	0	20.49	2	-11.50	2	-8.05	2.35	-11.81
46	47	53.95	0.00	-30.27	43.89	0	29.71	2	-16.68	2	-11.67	2.35	-17.12
47	47	53.95	0.00	-30.27	43.89	0	29.71	2	-16.68	2	-11.67	2.35	-17.12
47	48	55.40	0.00	-30.27	87.78	0	59.43	2	-33.36	2	-23.35	2.35	-34.23
48	48	55.40	0.00	-30.27	87.78	0	59.43	2	-33.36	2	-23.35	2.35	-34.23
48	49	56.85	0.00	-30.27	131.67	0	89.14	2	-50.03	2	-35.02	2.35	-51.35
49	49	56.85	0.00	-30.27	131.67	0	89.14	2	-50.03	2	-35.02	2.35	-51.35
49	50	58.30	0.00	-25.94	172.42	0	116.73	2	-65.52	2	-45.86	2.35	-67.24
50	50	58.30	0.50	-25.94	172.42	0	117.11	2	-65.42	2	-45.79	2.35	-67.21
50	51	59.75	0.41	-21.62	206.91	0	140.39	2	-78.55	2	-54.98	2.35	-80.66
51	51	59.75	0.41	-21.62	206.91	0	144.16	2	-62.00	2	-38.23	2.35	-61.65
51	52	61.20	0.33	-17.29	235.12	0	163.70	2	-70.48	2	-43.46	2.35	-70.06
52	52	61.20	0.00	-17.30	235.12	0	163.41	2	-70.54	2	-43.50	2.35	-70.07
52	53	62.65	0.00	-12.97	257.07	0	178.66	2	-77.12	2	-47.56	2.35	-76.61
53	53	62.65	0.00	-12.97	257.07	0	178.66	2	-77.12	2	-47.56	2.35	-76.61
53	54	64.10	0.00	-8.65	272.74	0	189.55	2	-81.82	2	-50.46	2.35	-81.28
54	54	64.10	0.00	-8.65	272.74	0	189.55	2	-81.82	2	-50.46	2.35	-81.28
54	55	65.55	0.00	-4.32	282.15	0	196.09	2	-84.65	2	-52.20	2.35	-84.08
55	55	65.55	0.00	-4.32	282.15	0	196.09	2	-84.65	2	-52.20	2.35	-84.08
55	56	67.00	0.00	0.00	285.28	0	198.27	2	-85.58	2	-52.78	2.35	-85.01
56	56	67.00	0.00	0.00	285.28	0	198.27	2	-85.58	2	-52.78	2.35	-85.01
56	57	68.45	0.00	4.32	282.15	0	196.09	2	-84.65	2	-52.20	2.35	-84.08
57	57	68.45	0.00	4.32	282.15	0	196.09	2	-84.65	2	-52.20	2.35	-84.08
57	58	69.90	0.00	8.65	272.74	0	189.55	2	-81.82	2	-50.46	2.35	-81.28
58	58	69.90	0.00	8.65	272.74	0	189.55	2	-81.82	2	-50.46	2.35	-81.28
58	59	71.35	0.00	12.97	257.07	0	178.66	2	-77.12	2	-47.56	2.35	-76.61
59	59	71.35	0.00	12.97	257.07	0	178.66	2	-77.12	2	-47.56	2.35	-76.61
59	60	72.80	0.00	17.30	235.12	0	163.41	2	-70.54	2	-43.50	2.35	-70.07
60	60	72.80	0.33	17.29	235.12	0	163.70	2	-70.48	2	-43.46	2.35	-70.06
60	61	74.25	0.41	21.62	206.91	0	144.16	2	-62.00	2	-38.23	2.35	-61.65
61	61	74.25	0.41	21.62	206.91	0	140.39	2	-78.55	2	-54.98	2.35	-80.66
61	62	75.70	0.50	25.94	172.42	0	117.11	2	-65.42	2	-45.79	2.35	-67.21
62	62	75.70	0.00	25.95	172.42	0	116.73	2	-65.52	2	-45.86	2.35	-67.24
62	63	77.15	0.00	30.27	131.67	0	89.14	2	-50.03	2	-35.02	2.35	-51.35
63	63	77.15	0.00	30.27	131.67	0	89.14	2	-50.03	2	-35.02	2.35	-51.35
63	64	78.60	0.00	30.27	87.78	0	59.43	2	-33.36	2	-23.35	2.35	-34.23
64	64	78.60	0.00	30.27	87.78	0	59.43	2	-33.36	2	-23.35	2.35	-34.23
64	65	80.05	0.00	30.27	43.89	0	29.71	2	-16.68	2	-11.67	2.35	-17.12
65	65	80.05	0.00	30.27	43.89	0	29.71	2	-16.68	2	-11.67	2.35	-17.12
65	66	80.50	0.00	30.27	30.27	0	20.49	2	-11.50	2	-8.05	2.35	-11.81
66	66	80.50	0.00	30.27	30.27	0	20.49	2	-11.50	2	-8.05	2.35	-11.81
66	67	81.50	0.00	30.27	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	1067	81.50	0.00	-32.88	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	68	82.50	0.00	-32.88	32.88	0	22.26	2	-12.49	2	-8.75	2.35	-12.82
68	68	82.50	0.00	-32.88	32.88	0	22.26	2	-12.49	2	-8.75	2.35	-12.82
68	69	83.08	0.00	-32.88	51.78	0	35.06	2	-19.68	2	-13.77	2.35	-20.19
69	69	83.08	0.00	-32.88	51.78	0	35.06	2	-19.68	2	-13.77	2.35	-20.19
69	70	84.65	0.00	-32.88	103.57	0	70.12	2	-39.36	2	-27.55	2.35	-40.39
70	70	84.65	0.00	-32.88	103.57	0	70.12	2	-39.36	2	-27.55	2.35	-40.39
70	71	86.23	0.00	-32.88	155.35	0	105.17	2	-59.03	2	-41.32	2.35	-60.59
71	71	86.23	0.00	-32.88	155.35	0	105.17	2	-59.03	2	-41.32	2.35	-60.59
71	72	87.80	0.00	-28.18	203.43	0	137.72	2	-77.30	2	-54.11	2.35	-79.34
72	72	87.80	0.50	-28.18	203.43	0	138.10	2	-77.21	2	-54.04	2.35	-79.30
72	73	89.38	0.41	-23.48	244.12	0	165.58	2	-92.69	2	-64.88	2.35	-95.18
73	73	89.38	0.41	-23.48	244.12	0	170.02	2	-73.16	2	-45.11	2.35	-72.73
73	74	90.95	0.33	-18.78	277.41	0	193.09	2	-83.17	2	-51.28	2.35	-82.66
74	74	90.95	0.00	-18.79	277.41	0	192.80	2	-83.22	2	-51.32	2.35	-82.67
74	75	92.53	0.00	-14.09	303.30	0	210.79	2	-90.99	2	-56.11	2.35	-90.38
75	75	92.53	0.00	-14.09	303.30	0	210.79	2	-90.99	2	-56.11	2.35	-90.38
75	76	94.10	0.00	-9.39	321.79	0	223.64	2	-96.54	2	-59.53	2.35	-95.89
76	76	94.10	0.00	-9.39	321.79	0	223.64	2	-96.54	2	-59.53	2.35	-95.89
76	77	95.68	0.00	-4.70	332.88	0	231.35	2	-99.86	2	-61.58	2.35	-99.20

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Programa DINTEL IDEAM S.A.
HBCV.Tinf

05/09/01

CÁLCULO TENSIONAL
ipótesis de cálculo:
BCV.Tinf
formigonadoBCvanos). Tensiones a tiempo Tinf
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Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-4.70	332.88	0	231.35	2	-99.86	2	-61.58	2.35	-99.20
77	78	97.25	0.00	0.00	336.58	0	233.92	2	-100.97	2	-62.27	2.35	-100.30
78	78	97.25	0.00	0.00	336.58	0	233.92	2	-100.97	2	-62.27	2.35	-100.30
78	79	98.83	0.00	4.70	332.88	0	231.35	2	-99.86	2	-61.58	2.35	-99.20
79	79	98.83	0.00	4.70	332.88	0	231.35	2	-99.86	2	-61.58	2.35	-99.20
79	80	100.40	0.00	9.39	321.79	0	223.64	2	-96.54	2	-59.53	2.35	-95.89
80	80	100.40	0.00	9.39	321.79	0	223.64	2	-96.54	2	-59.53	2.35	-95.89
80	81	101.98	0.00	14.09	303.30	0	210.79	2	-90.99	2	-56.11	2.35	-90.38
81	81	101.98	0.00	14.09	303.30	0	210.79	2	-90.99	2	-56.11	2.35	-90.38
81	82	103.55	0.00	18.79	277.41	0	192.80	2	-83.22	2	-51.32	2.35	-82.67
82	82	103.55	0.33	18.78	277.41	0	193.09	2	-83.17	2	-51.28	2.35	-82.66
82	83	105.13	0.41	23.48	244.12	0	170.02	2	-73.16	2	-45.11	2.35	-72.73
83	83	105.13	0.41	23.48	244.12	0	165.58	2	-92.69	2	-64.88	2.35	-95.18
83	84	106.70	0.50	28.18	203.43	0	138.10	2	-77.21	2	-54.04	2.35	-79.30
84	84	106.70	0.00	28.18	203.43	0	137.72	2	-77.30	2	-54.11	2.35	-79.34
84	85	108.28	0.00	32.88	155.35	0	105.17	2	-59.03	2	-41.32	2.35	-60.59
85	85	108.28	0.00	32.88	155.35	0	105.17	2	-59.03	2	-41.32	2.35	-60.59
85	86	109.85	0.00	32.88	103.57	0	70.12	2	-39.36	2	-27.55	2.35	-40.39
86	86	109.85	0.00	32.88	103.57	0	70.12	2	-39.36	2	-27.55	2.35	-40.39
86	87	111.43	0.00	32.88	51.78	0	35.06	2	-19.68	2	-13.77	2.35	-20.19
87	87	111.43	0.00	32.88	51.78	0	35.06	2	-19.68	2	-13.77	2.35	-20.19
87	88	112.00	0.00	32.88	32.87	0	22.25	2	-12.49	2	-8.74	2.35	-12.82
88	88	112.00	0.00	32.88	32.87	0	22.25	2	-12.49	2	-8.74	2.35	-12.82
88	89	113.00	0.00	32.88	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	1089	113.00	0.00	-32.88	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	90	114.00	0.00	-32.88	32.88	0	22.26	2	-12.49	2	-8.75	2.35	-12.82
90	90	114.00	0.00	-32.88	32.88	0	22.26	2	-12.49	2	-8.75	2.35	-12.82
90	91	114.58	0.00	-32.88	51.78	0	35.06	2	-19.68	2	-13.77	2.35	-20.19
91	91	114.58	0.00	-32.88	51.78	0	35.06	2	-19.68	2	-13.77	2.35	-20.19
91	92	116.15	0.00	-32.88	103.57	0	70.12	2	-39.36	2	-27.55	2.35	-40.39
92	92	116.15	0.00	-32.88	103.57	0	70.12	2	-39.36	2	-27.55	2.35	-40.39
92	93	117.73	0.00	-32.88	155.35	0	105.17	2	-59.03	2	-41.32	2.35	-60.59
93	93	117.73	0.00	-32.88	155.35	0	105.17	2	-59.03	2	-41.32	2.35	-60.59
93	94	119.30	0.00	-28.18	203.43	0	137.72	2	-77.30	2	-54.11	2.35	-79.34
94	94	119.30	0.50	-28.18	203.43	0	138.10	2	-77.21	2	-54.04	2.35	-79.30
94	95	120.88	0.41	-23.48	244.12	0	165.58	2	-92.69	2	-64.88	2.35	-95.18
95	95	120.88	0.41	-23.48	244.12	0	170.02	2	-73.16	2	-45.11	2.35	-72.73
95	96	122.45	0.33	-18.78	277.41	0	193.09	2	-83.17	2	-51.28	2.35	-82.66
96	96	122.45	0.00	-18.79	277.41	0	192.80	2	-83.22	2	-51.32	2.35	-82.67
96	97	124.03	0.00	-14.09	303.30	0	210.79	2	-90.99	2	-56.11	2.35	-90.38
97	97	124.03	0.00	-14.09	303.30	0	210.79	2	-90.99	2	-56.11	2.35	-90.38
97	98	125.60	0.00	-9.39	321.79	0	223.64	2	-96.54	2	-59.53	2.35	-95.89
98	98	125.60	0.00	-9.39	321.79	0	223.64	2	-96.54	2	-59.53	2.35	-95.89
98	99	127.18	0.00	-4.70	332.89	0	231.36	2	-99.87	2	-61.58	2.35	-99.20
99	99	127.18	0.00	-4.70	332.89	0	231.36	2	-99.87	2	-61.58	2.35	-99.20
99	100	128.75	0.00	0.00	336.59	0	233.93	2	-100.98	2	-62.27	2.35	-100.30
100	100	128.75	0.00	0.00	336.59	0	233.93	2	-100.98	2	-62.27	2.35	-100.30
100	101	130.33	0.00	4.70	332.89	0	231.36	2	-99.87	2	-61.58	2.35	-99.20
101	101	130.33	0.00	4.70	332.89	0	231.36	2	-99.87	2	-61.58	2.35	-99.20
101	102	131.90	0.00	9.39	321.79	0	223.64	2	-96.54	2	-59.53	2.35	-95.89
102	102	131.90	0.00	9.39	321.79	0	223.64	2	-96.54	2	-59.53	2.35	-95.89
102	103	133.48	0.00	14.09	303.30	0	210.79	2	-90.99	2	-56.11	2.35	-90.38
103	103	133.48	0.00	14.09	303.30	0	210.79	2	-90.99	2	-56.11	2.35	-90.38
103	104	135.05	0.00	18.79	277.41	0	192.80	2	-83.22	2	-51.32	2.35	-82.67
104	104	135.05	0.33	18.78	277.41	0	193.09	2	-83.17	2	-51.28	2.35	-82.66
104	105	136.63	0.41	23.48	244.12	0	170.02	2	-73.16	2	-45.11	2.35	-72.73
105	105	136.63	0.41	23.48	244.12	0	165.58	2	-92.69	2	-64.88	2.35	-95.18
105	106	138.20	0.50	28.18	203.43	0	138.10	2	-77.21	2	-54.04	2.35	-79.30
106	106	138.20	0.00	28.18	203.43	0	137.72	2	-77.30	2	-54.11	2.35	-79.34
106	107	139.78	0.00	32.88	155.35	0	105.17	2	-59.03	2	-41.32	2.35	-60.59
107	107	139.78	0.00	32.88	155.35	0	105.17	2	-59.03	2	-41.32	2.35	-60.59
107	108	141.35	0.00	32.88	103.57	0	70.12	2	-39.36	2	-27.55	2.35	-40.39
108	108	141.35	0.00	32.88	103.57	0	70.12	2	-39.36	2	-27.55	2.35	-40.39
108	109	142.93	0.00	32.88	51.78	0	35.06	2	-19.68	2	-13.77	2.35	-20.19
109	109	142.93	0.00	32.88	51.78	0	35.06	2	-19.68	2	-13.77	2.35	-20.19
109	110	143.50	0.00	32.88	32.87	0	22.25	2	-12.49	2	-8.74	2.35	-12.82
110	110	143.50	0.00	32.88	32.87	0	22.25	2	-12.49	2	-8.74	2.35	-12.82
110	111	144.50	0.00	32.88	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
111	1111	144.50	0.00	-25.32	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
111	112	145.50	0.00	-25.32	25.32	0	17.14	2	-9.62	2	-6.74	2.35	-9.87
112	112	145.50	0.00	-25.32	25.32	0	17.14	2	-9.62	2	-6.74	2.35	-9.87
112	113	145.68	0.00	-25.32	29.75	0	20.14	2	-11.31	2	-7.91	2.35	-11.60
113	113	145.68	0.00	-25.32	29.75	0	20.14	2	-11.31	2	-7.91	2.35	-11.60
113	114	146.85	0.00	-25.32	59.49	0	40.27	2	-22.61	2	-15.82	2.35	-23.20
114	114	146.85	0.00	-25.32	59.49	0	40.27	2	-22.61	2	-15.82	2.35	-23.20
114	115	148.03	0.00	-25.32	89.24	0	60.42	2	-33.91	2	-23.74	2.35	-34.80

CÁLCULO TENSIONAL

Hipótesis de cálculo:
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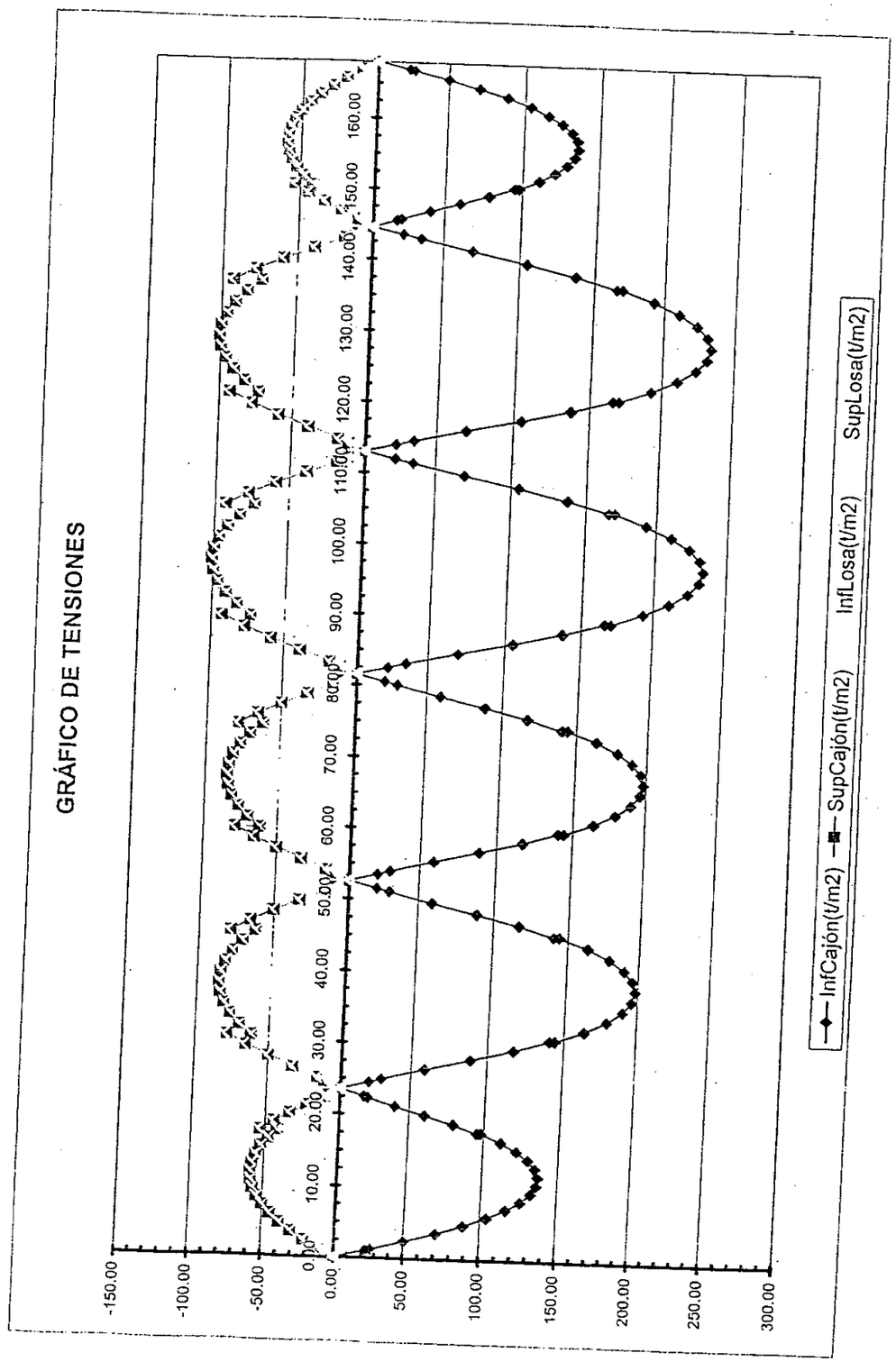
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	-25.32	89.24	0	60.42	2	-33.91	2	-23.74	2.35	-34.80
115	116	149.20	0.00	-21.81	116.93	0	79.16	2	-44.43	2	-31.10	2.35	-45.60
116	116	149.20	0.52	-21.81	116.93	0	79.56	2	-44.33	2	-31.03	2.35	-45.56
116	117	150.38	0.43	-18.30	140.50	0	95.44	2	-53.31	2	-37.31	2.35	-54.76
117	117	150.38	0.43	-18.30	140.50	0	98.02	2	-42.08	2	-25.94	2.35	-41.86
117	118	151.55	0.35	-14.80	159.95	0	111.47	2	-47.92	2	-29.55	2.35	-47.65
118	118	151.55	0.00	-14.80	159.95	0	111.17	2	-47.99	2	-29.59	2.35	-47.67
118	119	152.73	0.00	-11.30	175.29	0	121.83	2	-52.59	2	-32.43	2.35	-52.24
119	119	152.73	0.00	-11.30	175.29	0	121.83	2	-52.59	2	-32.43	2.35	-52.24
119	120	153.90	0.00	-7.80	186.51	0	129.62	2	-55.95	2	-34.50	2.35	-55.58
120	120	153.90	0.00	-7.80	186.51	0	129.62	2	-55.95	2	-34.50	2.35	-55.58
120	121	155.08	0.00	-4.29	193.61	0	134.56	2	-58.08	2	-35.82	2.35	-57.70
121	121	155.08	0.00	-4.29	193.61	0	134.56	2	-58.08	2	-35.82	2.35	-57.70
121	122	156.25	0.00	-0.79	196.59	0	136.63	2	-58.98	2	-36.37	2.35	-58.58
122	122	156.25	0.00	-0.79	196.59	0	136.63	2	-58.98	2	-36.37	2.35	-58.58
122	123	157.43	0.00	2.72	195.46	0	135.84	2	-58.64	2	-36.16	2.35	-58.25
123	123	157.43	0.00	2.72	195.46	0	135.84	2	-58.64	2	-36.16	2.35	-58.25
123	124	158.60	0.00	6.22	190.21	0	132.20	2	-57.06	2	-35.19	2.35	-56.68
24	124	158.60	0.00	6.22	190.21	0	132.20	2	-57.06	2	-35.19	2.35	-56.68
24	125	159.78	0.00	9.72	180.84	0	125.68	2	-54.25	2	-33.46	2.35	-53.89
125	125	159.78	0.00	9.72	180.84	0	125.68	2	-54.25	2	-33.46	2.35	-53.89
125	126	160.95	0.00	13.23	167.36	0	116.32	2	-50.21	2	-30.96	2.35	-49.87
126	126	160.95	0.00	13.23	167.36	0	116.32	2	-50.21	2	-30.96	2.35	-49.87
126	127	162.13	0.00	16.73	149.76	0	104.08	2	-44.93	2	-27.71	2.35	-44.63
127	127	162.13	0.00	16.73	149.76	0	104.08	2	-44.93	2	-27.71	2.35	-44.63
127	128	163.30	0.00	20.24	128.04	0	88.99	2	-38.41	2	-23.69	2.35	-38.16
128	128	163.30	0.00	20.24	128.04	0	88.99	2	-38.41	2	-23.69	2.35	-38.16
128	129	164.48	0.00	23.74	102.21	0	71.04	2	-30.66	2	-18.91	2.35	-30.46
129	129	164.48	0.00	23.74	102.21	0	71.04	2	-30.66	2	-18.91	2.35	-30.46
129	130	165.65	0.00	27.24	72.25	0	50.21	2	-21.68	2	-13.37	2.35	-21.53
130	130	165.65	0.00	27.24	72.25	0	50.21	2	-21.68	2	-13.37	2.35	-21.53
130	131	166.83	0.00	30.75	38.19	0	26.54	2	-11.46	2	-7.07	2.35	-11.38
131	131	166.83	0.00	30.75	38.19	0	26.54	2	-11.46	2	-7.07	2.35	-11.38
131	132	167.00	0.00	31.27	32.76	0	22.77	2	-9.83	2	-6.06	2.35	-9.76
132	132	167.00	0.00	31.27	32.76	0	22.77	2	-9.83	2	-6.06	2.35	-9.76
132	133	168.00	0.00	34.25	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

)

05/09/01

Programa DINTEL IDEAM S.A.
HBCV.Tinf

GRÁFICO DE TENSIONES



hsim_tinf.xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:

fase4.ISO.To.Tinf

...nsadolsostático(t=0)). Tensiones a tiempo Tinf

1): 1)fase4.ISO.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
2	2	1.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
2	3	1.18	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
3	3	1.18	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
3	4	2.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
4	4	2.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
4	5	3.53	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
5	5	3.53	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
5	6	4.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
6	6	4.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
6	7	5.88	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
7	7	5.88	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
7	8	7.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
8	8	7.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
8	9	8.23	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
9	9	8.23	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
9	10	9.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
9	10	9.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
10	11	10.58	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
11	11	10.58	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
11	12	11.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
12	12	11.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
12	13	12.93	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
13	13	12.93	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
13	14	14.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
14	14	14.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
14	15	15.28	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
15	15	15.28	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
15	16	16.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
16	16	16.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
16	17	17.63	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
17	17	17.63	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
17	18	18.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
18	18	18.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
18	19	19.98	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
19	19	19.98	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
19	20	21.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
20	20	21.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
20	21	22.33	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
21	21	22.33	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
21	22	22.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
22	22	22.50	-728.78	0.00	386.98	0	0.00	2	0.00	2	0.00	2.35	0.00
22	23	23.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
[illegible]	1023	23.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
23	24	24.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
24	24	24.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
24	25	24.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
25	25	24.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
25	26	26.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
26	26	26.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
26	27	27.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
27	27	27.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
27	28	29.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
28	28	29.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
28	29	30.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
29	29	30.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
29	30	32.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
30	30	32.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
30	31	33.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
31	31	33.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
31	32	35.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
32	32	35.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
32	33	36.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
33	33	36.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
33	34	38.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
34	34	38.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
34	35	39.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
[illegible]	35	39.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
[illegible]	36	40.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
36	36	40.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
36	37	42.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
37	37	42.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
37	38	43.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
38	38	43.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
38	39	45.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

hsim_tinf.xls

Programa DINTEL IDEAM S.A.
fase4.ISO.To.Tinf

05/09/01

CÁLCULO TENSIONAL

ipótesis de cálculo:

ase4.ISO.To.Tinf

?retensadolsostático(t=0)). Tensiones a tiempo Tinf

1)fase4.ISO.To

of exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
39	40	46.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
40	40	46.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
40	41	48.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
41	41	48.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
41	42	49.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
42	42	49.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
42	43	51.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
43	43	51.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
43	44	51.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
44	44	51.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
44	45	52.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
45	1045	52.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
45	46	53.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
46	46	53.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
46	47	53.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
47	47	53.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
47	48	55.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
48	48	55.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
48	49	56.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
49	49	56.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
49	50	58.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
50	50	58.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
50	51	59.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
51	51	59.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
51	52	61.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
52	52	61.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
52	53	62.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
53	53	62.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
53	54	64.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
54	54	64.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
54	55	65.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
55	55	65.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
55	56	67.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
56	56	67.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
56	57	68.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
57	57	68.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
57	58	69.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
58	58	69.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
58	59	71.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
59	59	71.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
59	60	72.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
60	60	72.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
60	61	74.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
61	61	74.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
61	62	75.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
62	62	75.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
62	63	77.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
63	63	77.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
63	64	78.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
64	64	78.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
64	65	80.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
65	65	80.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
65	66	80.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
66	66	80.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
66	67	81.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
67	1067	81.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
67	68	82.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
68	68	82.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
68	69	83.08	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
69	69	83.08	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
69	70	84.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
70	70	84.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
70	71	86.23	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
71	71	86.23	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
71	72	87.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
72	72	87.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
72	73	89.38	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
73	73	89.38	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
73	74	90.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
74	74	90.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
74	75	92.53	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
75	75	92.53	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
75	76	94.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
76	76	94.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
76	77	95.68	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase4.ISO.To.Tinf
ensadolsostático(t=0)). Tensiones a tiempo Tinf
1, 1)fase4 ISO To
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
77	78	97.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
78	78	97.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
78	79	98.83	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
79	79	98.83	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
79	80	100.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
80	80	100.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
80	81	101.98	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
81	81	101.98	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
81	82	103.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
82	82	103.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
82	83	105.13	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
83	83	105.13	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
83	84	106.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
84	84	106.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
84	85	108.28	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
85	85	108.28	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
85	86	109.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
86	86	109.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
86	87	111.43	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
87	87	111.43	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
87	88	112.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
88	88	112.00	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
88	89	113.00	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
89	1089	113.00	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
89	90	114.00	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
90	90	114.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
90	91	114.58	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
91	91	114.58	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
91	92	116.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
92	92	116.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
92	93	117.73	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
93	93	117.73	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
93	94	119.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
94	94	119.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
94	95	120.88	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
95	95	120.88	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
95	96	122.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
96	96	122.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
96	97	124.03	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
97	97	124.03	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
97	98	125.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
98	98	125.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
98	99	127.18	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
99	99	127.18	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
99	100	128.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
100	100	128.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
100	101	130.33	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
101	101	130.33	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
101	102	131.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
102	102	131.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
102	103	133.48	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
103	103	133.48	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
103	104	135.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
104	104	135.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
104	105	136.63	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
105	105	136.63	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
105	106	138.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
106	106	138.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
106	107	139.78	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
107	107	139.78	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
107	108	141.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
108	108	141.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
108	109	142.93	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
109	109	142.93	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
109	110	143.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
110	110	143.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
110	111	144.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
11	1111	144.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
	112	145.50	-728.78	0.00	386.98	0	-289.70	2	-289.89	2	-210.07	2.35	-204.12
11	112	145.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
112	113	145.68	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
113	113	145.68	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
113	114	146.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
114	114	146.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
114	115	148.03	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

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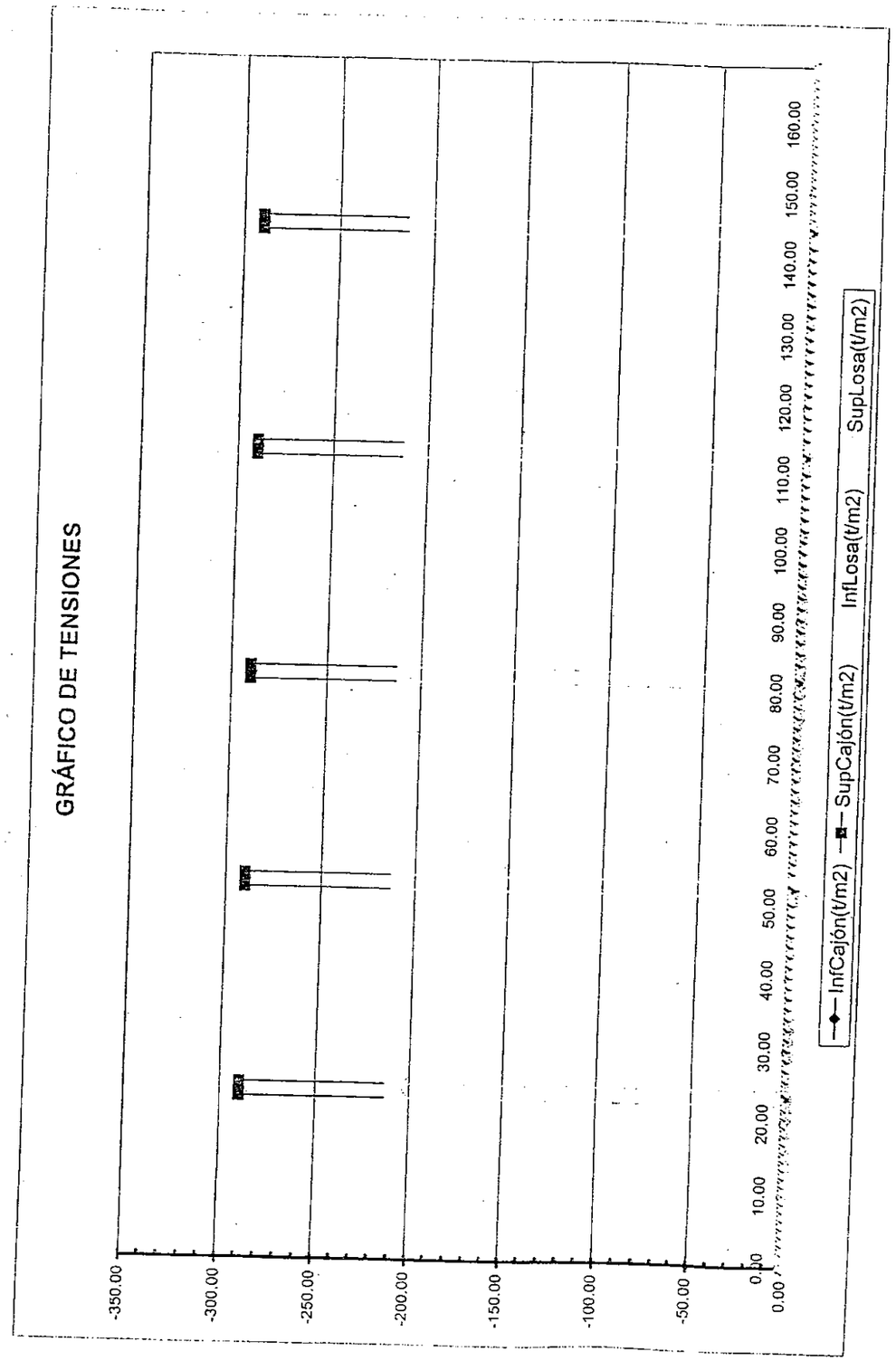
CÁLCULO TENSIONAL
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oef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
115	116	149.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
116	116	149.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
116	117	150.38	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
117	117	150.38	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
117	118	151.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
118	118	151.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
118	119	152.73	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
119	119	152.73	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
119	120	153.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
120	120	153.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
120	121	155.08	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
121	121	155.08	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
121	122	156.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
122	122	156.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
122	123	157.43	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
123	123	157.43	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
123	124	158.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
124	124	158.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
124	125	159.78	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
125	125	159.78	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
125	126	160.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
126	126	160.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
126	127	162.13	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
127	127	162.13	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
127	128	163.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
128	128	163.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
128	129	164.48	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
129	129	164.48	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
129	130	165.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
130	130	165.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
130	131	166.83	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
131	131	166.83	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
131	132	167.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
132	132	167.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
132	133	168.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
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f. 1|fase4.HIP.To
def. exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	2.67	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	2.67	-2.67	0	-1.81	2	0.60	2	0.49	2.35	0.84
2	2	1.00	0.00	2.67	-2.67	0	-1.81	2	0.60	2	0.49	2.35	0.84
2	3	1.18	0.00	2.67	-3.14	0	-2.13	2	0.71	2	0.58	2.35	0.99
3	3	1.18	0.00	2.67	-3.14	0	-2.13	2	0.71	2	0.58	2.35	0.99
3	4	2.35	0.00	2.67	-6.27	0	-4.25	2	1.42	2	1.16	2.35	1.98
4	4	2.35	0.00	2.67	-6.27	0	-4.25	2	1.42	2	1.16	2.35	1.98
4	5	3.53	0.00	2.67	-9.41	0	-6.38	2	2.13	2	1.74	2.35	2.96
5	5	3.53	0.00	2.67	-9.41	0	-6.38	2	2.13	2	1.74	2.35	2.96
5	6	4.70	0.00	2.67	-12.55	0	-8.51	2	2.84	2	2.32	2.35	3.95
6	6	4.70	0.00	2.67	-12.55	0	-8.51	2	2.84	2	2.32	2.35	3.95
6	7	5.88	0.00	2.67	-15.68	0	-10.63	2	3.54	2	2.90	2.35	4.94
7	7	5.88	0.00	2.67	-15.68	0	-10.63	2	3.54	2	2.90	2.35	4.94
7	8	7.05	0.00	2.67	-18.82	0	-12.76	2	4.25	2	3.48	2.35	5.93
8	8	7.05	0.00	2.67	-18.82	0	-12.76	2	4.25	2	3.48	2.35	5.93
8	9	8.23	0.00	2.67	-21.95	0	-14.88	2	4.96	2	4.06	2.35	6.91
9	9	8.23	0.00	2.67	-21.95	0	-14.88	2	4.96	2	4.06	2.35	6.91
9	10	9.40	0.00	2.67	-25.09	0	-17.01	2	5.67	2	4.64	2.35	7.90
10	10	9.40	0.00	2.67	-25.09	0	-17.01	2	5.67	2	4.64	2.35	7.90
10	11	10.58	0.00	2.67	-28.23	0	-19.14	2	6.38	2	5.22	2.35	8.89
11	11	10.58	0.00	2.67	-28.23	0	-19.14	2	6.38	2	5.22	2.35	8.89
11	12	11.75	0.00	2.67	-31.36	0	-21.26	2	7.09	2	5.80	2.35	9.88
12	12	11.75	0.00	2.67	-31.36	0	-21.26	2	7.09	2	5.80	2.35	9.88
12	13	12.93	0.00	2.67	-34.50	0	-23.39	2	7.80	2	6.38	2.35	10.87
13	13	12.93	0.00	2.67	-34.50	0	-23.39	2	7.80	2	6.38	2.35	10.87
13	14	14.10	0.00	2.67	-37.64	0	-25.52	2	8.51	2	6.96	2.35	11.86
14	14	14.10	0.00	2.67	-37.64	0	-25.52	2	8.51	2	6.96	2.35	11.86
14	15	15.28	0.00	2.67	-40.77	0	-27.64	2	9.21	2	7.54	2.35	12.84
15	15	15.28	0.00	2.67	-40.77	0	-27.64	2	9.21	2	7.54	2.35	12.84
15	16	16.45	0.00	2.67	-43.91	0	-29.77	2	9.92	2	8.12	2.35	13.83
16	16	16.45	-0.03	2.67	-43.91	0	-29.78	2	9.91	2	8.12	2.35	13.82
16	17	17.63	-0.03	2.67	-47.05	0	-31.91	2	10.62	2	8.70	2.35	14.81
17	17	17.63	-0.03	2.67	-47.05	0	-31.11	2	15.14	2	12.51	2.35	19.23
17	18	18.80	-0.03	2.67	-50.18	0	-33.18	2	16.15	2	13.34	2.35	20.51
18	18	18.80	-0.69	2.58	-50.18	0	-33.44	2	15.91	2	13.15	2.35	20.31
18	19	19.98	-0.69	2.58	-53.32	0	-35.52	2	16.92	2	13.98	2.35	21.60
19	19	19.98	-0.69	2.58	-53.32	0	-36.62	2	20.13	2	14.08	2.35	20.74
19	20	21.15	-0.69	2.58	-56.45	0	-38.74	2	21.32	2	14.91	2.35	21.97
20	20	21.15	0.00	2.67	-56.45	0	-38.22	2	21.45	2	15.02	2.35	22.02
20	21	22.33	0.00	2.67	-59.59	0	-40.34	2	22.64	2	15.85	2.35	23.24
21	21	22.33	0.00	2.67	-59.59	0	-40.34	2	22.64	2	15.85	2.35	23.24
21	22	22.50	0.00	2.67	-60.06	0	-40.66	2	22.82	2	15.98	2.35	23.42
22	22	22.50	0.00	2.67	-60.06	0	-40.66	2	22.82	2	15.98	2.35	23.42
22	23	23.50	0.00	2.67	-62.73	0	-42.47	2	23.84	2	16.69	2.35	24.46
23	1023	23.50	0.00	-0.58	-62.73	0	-42.47	2	23.84	2	16.69	2.35	24.46
23	24	24.50	0.00	-0.58	-62.15	0	-42.08	2	23.62	2	16.53	2.35	24.24
24	24	24.50	0.00	-0.58	-62.15	0	-42.08	2	23.62	2	16.53	2.35	24.24
24	25	24.95	0.00	-0.58	-61.89	0	-41.90	2	23.52	2	16.46	2.35	24.14
25	25	24.95	0.00	-0.58	-61.89	0	-41.90	2	23.52	2	16.46	2.35	24.14
25	26	26.40	0.00	-0.58	-61.05	0	-41.33	2	23.20	2	16.24	2.35	23.81
26	26	26.40	-0.12	-0.56	-61.05	0	-41.42	2	23.18	2	16.22	2.35	23.80
26	27	27.85	-0.12	-0.56	-60.21	0	-40.85	2	22.86	2	16.00	2.35	23.47
27	27	27.85	-0.12	-0.56	-60.21	0	-39.85	2	19.35	2	15.98	2.35	24.59
27	28	29.30	-0.12	-0.56	-59.38	0	-39.30	2	19.08	2	15.76	2.35	24.25
28	28	29.30	0.00	-0.58	-59.38	0	-39.25	2	19.12	2	15.80	2.35	24.29
28	29	30.75	0.00	-0.58	-58.54	0	-38.69	2	18.85	2	15.57	2.35	23.94
29	29	30.75	0.00	-0.58	-58.54	0	-39.69	2	13.23	2	10.83	2.35	18.44
29	30	32.20	0.00	-0.58	-57.70	0	-39.12	2	13.04	2	10.67	2.35	18.18
30	30	32.20	0.00	-0.58	-57.70	0	-39.12	2	13.04	2	10.67	2.35	18.18
30	31	33.65	0.00	-0.58	-56.86	0	-38.55	2	12.85	2	10.52	2.35	17.91
31	31	33.65	0.00	-0.58	-56.86	0	-38.55	2	12.85	2	10.52	2.35	17.91
31	32	35.10	0.00	-0.58	-56.02	0	-37.98	2	12.66	2	10.36	2.35	17.65
32	32	35.10	0.00	-0.58	-56.02	0	-37.98	2	12.66	2	10.36	2.35	17.65
32	33	36.55	0.00	-0.58	-55.19	0	-37.42	2	12.47	2	10.21	2.35	17.38
33	33	36.55	0.00	-0.58	-55.19	0	-37.42	2	12.47	2	10.21	2.35	17.38
33	34	38.00	0.00	-0.58	-54.35	0	-36.85	2	12.28	2	10.05	2.35	17.12
34	34	38.00	0.00	-0.58	-54.35	0	-36.85	2	12.28	2	10.05	2.35	17.12
34	35	39.45	0.00	-0.58	-53.51	0	-36.28	2	12.09	2	9.90	2.35	16.86
35	35	39.45	0.00	-0.58	-53.51	0	-36.28	2	12.09	2	9.90	2.35	16.86
35	36	40.90	0.00	-0.58	-52.67	0	-35.71	2	11.90	2	9.74	2.35	16.59
36	36	40.90	0.00	-0.58	-52.67	0	-35.71	2	11.90	2	9.74	2.35	16.59
36	37	42.35	0.00	-0.58	-51.84	0	-35.15	2	11.72	2	9.59	2.35	16.33
37	37	42.35	0.00	-0.58	-51.84	0	-35.15	2	11.72	2	9.59	2.35	16.33
37	38	43.80	0.00	-0.58	-51.00	0	-34.58	2	11.53	2	9.44	2.35	16.07
38	38	43.80	0.00	-0.58	-51.00	0	-34.58	2	11.53	2	9.44	2.35	16.07
38	39	45.25	0.00	-0.58	-50.16	0	-34.01	2	11.34	2	9.28	2.35	15.80



CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase4.HIP.To.Tinf
tensadoHiperestático(t=0)). Tensiones a tiempo Tinf
t]fase4.HIP.To
Cnef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	0.00	-0.58	-50.16	0	-33.16	2	16.15	2	13.34	2.35	20.5
39	40	46.70	0.00	-0.58	-49.32	0	-32.60	2	15.88	2	13.12	2.35	20.1
40	40	46.70	0.12	-0.56	-49.32	0	-32.55	2	15.92	2	13.15	2.35	20.2
40	41	48.15	0.12	-0.56	-48.48	0	-32.00	2	15.65	2	12.93	2.35	19.8
41	41	48.15	0.12	-0.56	-48.48	0	-32.73	2	18.45	2	12.91	2.35	18.9
41	42	49.60	0.12	-0.56	-47.65	0	-32.17	2	18.13	2	12.69	2.35	18.5
42	42	49.60	0.00	-0.58	-47.65	0	-32.26	2	18.11	2	12.67	2.35	18.5
42	43	51.05	0.00	-0.58	-46.81	0	-31.69	2	17.79	2	12.45	2.35	18.2
43	43	51.05	0.00	-0.58	-46.81	0	-31.69	2	17.79	2	12.45	2.35	18.2
43	44	51.50	0.00	-0.58	-46.55	0	-31.51	2	17.69	2	12.38	2.35	18.1
44	44	51.50	0.00	-0.58	-46.55	0	-31.51	2	17.69	2	12.38	2.35	18.1
44	45	52.50	0.00	-0.58	-45.97	0	-31.12	2	17.47	2	12.23	2.35	17.9
45	1045	52.50	0.00	0.05	-45.97	0	-31.12	2	17.47	2	12.23	2.35	17.9
45	46	53.50	0.00	0.05	-46.02	0	-31.16	2	17.49	2	12.24	2.35	17.9
46	46	53.50	0.00	0.05	-46.02	0	-31.16	2	17.49	2	12.24	2.35	17.9
46	47	53.95	0.00	0.05	-46.04	0	-31.17	2	17.50	2	12.25	2.35	17.9
47	47	53.95	0.00	0.05	-46.04	0	-31.17	2	17.50	2	12.25	2.35	17.9
47	48	55.40	0.00	0.05	-46.12	0	-31.22	2	17.53	2	12.27	2.35	17.9
48	48	55.40	0.01	0.05	-46.12	0	-31.22	2	17.53	2	12.27	2.35	17.9
48	49	56.85	0.01	0.05	-46.19	0	-31.26	2	17.55	2	12.29	2.35	18.0
49	49	56.85	0.01	0.05	-46.19	0	-30.53	2	14.88	2	12.29	2.35	18.8
49	50	58.30	0.01	0.05	-46.26	0	-30.57	2	14.90	2	12.31	2.35	18.9
50	50	58.30	0.00	0.05	-46.26	0	-30.58	2	14.90	2	12.31	2.35	18.9
50	51	59.75	0.00	0.05	-46.33	0	-30.62	2	14.92	2	12.32	2.35	18.9
51	51	59.75	0.00	0.05	-46.33	0	-31.41	2	10.47	2	8.57	2.35	14.5
51	52	61.20	0.00	0.05	-46.41	0	-31.47	2	10.49	2	8.59	2.35	14.6
52	52	61.20	0.00	0.05	-46.41	0	-31.47	2	10.49	2	8.59	2.35	14.6
52	53	62.65	0.00	0.05	-46.48	0	-31.51	2	10.50	2	8.60	2.35	14.6
53	53	62.65	0.00	0.05	-46.48	0	-31.51	2	10.50	2	8.60	2.35	14.6
53	54	64.10	0.00	0.05	-46.55	0	-31.56	2	10.52	2	8.61	2.35	14.6
54	54	64.10	0.00	0.05	-46.55	0	-31.56	2	10.52	2	8.61	2.35	14.6
54	55	65.55	0.00	0.05	-46.62	0	-31.61	2	10.54	2	8.62	2.35	14.6
55	55	65.55	0.00	0.05	-46.62	0	-31.61	2	10.54	2	8.62	2.35	14.6
55	56	67.00	0.00	0.05	-46.70	0	-31.66	2	10.55	2	8.64	2.35	14.7
56	56	67.00	0.00	0.05	-46.70	0	-31.66	2	10.55	2	8.64	2.35	14.7
56	57	68.45	0.00	0.05	-46.77	0	-31.71	2	10.57	2	8.65	2.35	14.7
57	57	68.45	0.00	0.05	-46.77	0	-31.71	2	10.57	2	8.65	2.35	14.7
57	58	69.90	0.00	0.05	-46.84	0	-31.76	2	10.59	2	8.67	2.35	14.7
58	58	69.90	0.00	0.05	-46.84	0	-31.76	2	10.59	2	8.67	2.35	14.7
58	59	71.35	0.00	0.05	-46.91	0	-31.80	2	10.60	2	8.68	2.35	14.7
59	59	71.35	0.00	0.05	-46.91	0	-31.80	2	10.60	2	8.68	2.35	14.7
59	60	72.80	0.00	0.05	-46.99	0	-31.86	2	10.62	2	8.69	2.35	14.8
60	60	72.80	0.00	0.05	-46.99	0	-31.86	2	10.62	2	8.69	2.35	14.8
60	61	74.25	0.00	0.05	-47.06	0	-31.91	2	10.64	2	8.71	2.35	14.8
61	61	74.25	0.00	0.05	-47.06	0	-31.11	2	15.15	2	12.52	2.35	19.2
61	62	75.70	0.00	0.05	-47.13	0	-31.15	2	15.18	2	12.54	2.35	19.2
62	62	75.70	-0.01	0.05	-47.13	0	-31.16	2	15.17	2	12.53	2.35	19.2
62	63	77.15	-0.01	0.05	-47.20	0	-31.20	2	15.19	2	12.55	2.35	19.3
63	63	77.15	-0.01	0.05	-47.20	0	-31.96	2	17.93	2	12.55	2.35	18.4
63	64	78.60	-0.01	0.05	-47.28	0	-32.02	2	17.96	2	12.58	2.35	18.4
64	64	78.60	0.00	0.05	-47.28	0	-32.01	2	17.97	2	12.58	2.35	18.4
64	65	80.05	0.00	0.05	-47.35	0	-32.06	2	17.99	2	12.60	2.35	18.4
65	65	80.05	0.00	0.05	-47.35	0	-32.06	2	17.99	2	12.60	2.35	18.4
65	66	80.50	0.00	0.05	-47.37	0	-32.07	2	18.00	2	12.60	2.35	18.4
66	66	80.50	0.00	0.05	-47.37	0	-32.07	2	18.00	2	12.60	2.35	18.4
66	67	81.50	0.00	0.05	-47.42	0	-32.10	2	18.02	2	12.61	2.35	18.4
67	1067	81.50	0.00	-0.20	-47.42	0	-32.10	2	18.02	2	12.61	2.35	18.4
67	68	82.50	0.00	-0.20	-47.23	0	-31.97	2	17.95	2	12.56	2.35	18.4
68	68	82.50	0.00	-0.20	-47.23	0	-31.97	2	17.95	2	12.56	2.35	18.4
68	69	83.08	0.00	-0.20	-47.11	0	-31.89	2	17.90	2	12.53	2.35	18.3
69	69	83.08	0.00	-0.20	-47.11	0	-31.89	2	17.90	2	12.53	2.35	18.3
69	70	84.65	0.00	-0.20	-46.81	0	-31.69	2	17.79	2	12.45	2.35	18.2
70	70	84.65	-0.04	-0.19	-46.81	0	-31.72	2	17.78	2	12.45	2.35	18.2
70	71	86.23	-0.04	-0.19	-46.50	0	-31.51	2	17.66	2	12.36	2.35	18.1
71	71	86.23	-0.04	-0.19	-46.50	0	-30.75	2	14.96	2	12.36	2.35	19.0
71	72	87.80	-0.04	-0.19	-46.19	0	-30.55	2	14.86	2	12.27	2.35	18.8
72	72	87.80	0.00	-0.20	-46.19	0	-30.53	2	14.87	2	12.29	2.35	18.8
72	73	89.38	0.00	-0.20	-45.88	0	-30.33	2	14.77	2	12.20	2.35	18.7
73	73	89.38	0.00	-0.20	-45.88	0	-31.11	2	10.37	2	8.49	2.35	14.4
73	74	90.95	0.00	-0.20	-45.58	0	-30.90	2	10.30	2	8.43	2.35	14.3
74	74	90.95	0.00	-0.20	-45.58	0	-30.90	2	10.30	2	8.43	2.35	14.3
74	75	92.53	0.00	-0.20	-45.27	0	-30.69	2	10.23	2	8.37	2.35	14.2
75	75	92.53	0.00	-0.20	-45.27	0	-30.69	2	10.23	2	8.37	2.35	14.2
75	76	94.10	0.00	-0.20	-44.96	0	-30.48	2	10.16	2	8.32	2.35	14.1
76	76	94.10	0.00	-0.20	-44.96	0	-30.48	2	10.16	2	8.32	2.35	14.1
76	77	95.68	0.00	-0.20	-44.65	0	-30.27	2	10.09	2	8.26	2.35	14.0

hsim_tinf.xls
Programa DINTEL IDEAM S.A.
fase4.HIP.To.Tinf
05/09/01

CÁLCULO TENSIONAL

lipótesis de cálculo:
ase4.HIP.To.Tinf
PretensadoHiperestático(t=0)). Tensiones a tiempo Tinf
t]fase4.HIP.To
ef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-0.20	-44.65	0	-30.27	2	10.09	2	8.26	2.35	14.06
77	78	97.25	0.00	-0.20	-44.35	0	-30.07	2	10.02	2	8.20	2.35	13.97
78	78	97.25	0.00	-0.20	-44.35	0	-30.07	2	10.02	2	8.20	2.35	13.97
78	79	98.83	0.00	-0.20	-44.04	0	-29.86	2	9.95	2	8.15	2.35	13.87
79	79	98.83	0.00	-0.20	-44.04	0	-29.86	2	9.95	2	8.15	2.35	13.87
79	80	100.40	0.00	-0.20	-43.73	0	-29.65	2	9.88	2	8.09	2.35	13.77
80	80	100.40	0.00	-0.20	-43.73	0	-29.65	2	9.88	2	8.09	2.35	13.77
80	81	101.98	0.00	-0.20	-43.43	0	-29.45	2	9.82	2	8.03	2.35	13.68
81	81	101.98	0.00	-0.20	-43.43	0	-29.45	2	9.82	2	8.03	2.35	13.68
81	82	103.55	0.00	-0.20	-43.12	0	-29.24	2	9.75	2	7.98	2.35	13.58
82	82	103.55	0.00	-0.20	-43.12	0	-29.24	2	9.75	2	7.98	2.35	13.58
82	83	105.13	0.00	-0.20	-42.81	0	-29.03	2	9.68	2	7.92	2.35	13.49
83	83	105.13	0.00	-0.20	-42.81	0	-28.30	2	13.78	2	11.39	2.35	17.51
83	84	106.70	0.00	-0.20	-42.50	0	-28.09	2	13.69	2	11.31	2.35	17.38
84	84	106.70	0.04	-0.19	-42.50	0	-28.08	2	13.70	2	11.32	2.35	17.39
84	85	108.28	0.04	-0.19	-42.20	0	-27.88	2	13.60	2	11.24	2.35	17.27
85	85	108.28	0.04	-0.19	-42.20	0	-28.54	2	16.04	2	11.23	2.35	16.46
85	86	109.85	0.04	-0.19	-41.89	0	-28.33	2	15.93	2	11.15	2.35	16.34
86	86	109.85	0.00	-0.20	-41.89	0	-28.36	2	15.92	2	11.14	2.35	16.34
86	87	111.43	0.00	-0.20	-41.58	0	-28.15	2	15.80	2	11.06	2.35	16.22
87	87	111.43	0.00	-0.20	-41.58	0	-28.15	2	15.80	2	11.06	2.35	16.22
87	88	112.00	0.00	-0.20	-41.47	0	-28.08	2	15.76	2	11.03	2.35	16.17
88	88	112.00	0.00	-0.20	-41.47	0	-28.08	2	15.76	2	11.03	2.35	16.17
88	89	113.00	0.00	-0.20	-41.27	0	-27.94	2	15.68	2	10.98	2.35	16.10
89	1089	113.00	0.00	0.60	-41.27	0	-27.94	2	15.68	2	10.98	2.35	16.10
89	90	114.00	0.00	0.60	-41.87	0	-28.35	2	15.91	2	11.14	2.35	16.33
90	90	114.00	0.00	0.60	-41.87	0	-28.35	2	15.91	2	11.14	2.35	16.33
90	91	114.58	0.00	0.60	-42.22	0	-28.58	2	16.04	2	11.23	2.35	16.47
91	91	114.58	0.00	0.60	-42.22	0	-28.58	2	16.04	2	11.23	2.35	16.47
91	92	116.15	0.00	0.60	-43.16	0	-29.22	2	16.40	2	11.48	2.35	16.83
92	92	116.15	0.12	0.59	-43.16	0	-29.13	2	16.42	2	11.50	2.35	16.84
92	93	117.73	0.12	0.59	-44.10	0	-29.76	2	16.78	2	11.75	2.35	17.21
93	93	117.73	0.12	0.59	-44.10	0	-29.10	2	14.24	2	11.77	2.35	18.07
93	94	119.30	0.12	0.59	-45.04	0	-29.72	2	14.55	2	12.02	2.35	18.46
94	94	119.30	0.00	0.60	-45.04	0	-29.77	2	14.50	2	11.98	2.35	18.42
94	95	120.88	0.00	0.60	-45.99	0	-30.40	2	14.81	2	12.23	2.35	18.81
95	95	120.88	0.00	0.60	-45.99	0	-31.18	2	10.39	2	8.51	2.35	14.49
95	96	122.45	0.00	0.60	-46.93	0	-31.82	2	10.61	2	8.68	2.35	14.78
96	96	122.45	0.00	0.60	-46.93	0	-31.82	2	10.61	2	8.68	2.35	14.78
96	97	124.03	0.00	0.60	-47.87	0	-32.46	2	10.82	2	8.86	2.35	15.08
97	97	124.03	0.00	0.60	-47.87	0	-32.46	2	10.82	2	8.86	2.35	15.08
97	98	125.60	0.00	0.60	-48.82	0	-33.10	2	11.03	2	9.03	2.35	15.38
98	98	125.60	0.00	0.60	-48.82	0	-33.10	2	11.03	2	9.03	2.35	15.38
98	99	127.18	0.00	0.60	-49.76	0	-33.74	2	11.25	2	9.21	2.35	15.67
99	99	127.18	0.00	0.60	-49.76	0	-33.74	2	11.25	2	9.21	2.35	15.67
99	100	128.75	0.00	0.60	-50.70	0	-34.37	2	11.46	2	9.38	2.35	15.97
100	100	128.75	0.00	0.60	-50.70	0	-34.37	2	11.46	2	9.38	2.35	15.97
100	101	130.33	0.00	0.60	-51.64	0	-35.01	2	11.67	2	9.55	2.35	16.27
101	101	130.33	0.00	0.60	-51.64	0	-35.01	2	11.67	2	9.55	2.35	16.27
101	102	131.90	0.00	0.60	-52.59	0	-35.66	2	11.89	2	9.73	2.35	16.57
102	102	131.90	0.00	0.60	-52.59	0	-35.66	2	11.89	2	9.73	2.35	16.57
102	103	133.48	0.00	0.60	-53.53	0	-36.29	2	12.10	2	9.90	2.35	16.86
103	103	133.48	0.00	0.60	-53.53	0	-36.29	2	12.10	2	9.90	2.35	16.86
103	104	135.05	0.00	0.60	-54.47	0	-36.93	2	12.31	2	10.08	2.35	17.16
104	104	135.05	0.00	0.60	-54.47	0	-36.93	2	12.31	2	10.08	2.35	17.16
104	105	136.63	0.00	0.60	-55.41	0	-37.57	2	12.52	2	10.25	2.35	17.45
105	105	136.63	0.00	0.60	-55.41	0	-36.63	2	17.84	2	14.74	2.35	22.56
105	106	138.20	0.00	0.60	-56.36	0	-37.25	2	18.15	2	14.99	2.35	23.05
106	106	138.20	-0.12	0.59	-56.36	0	-37.30	2	18.11	2	14.96	2.35	23.01
106	107	139.78	-0.12	0.59	-57.30	0	-37.92	2	18.41	2	15.21	2.35	23.40
107	107	139.78	-0.12	0.59	-57.30	0	-38.88	2	21.75	2	15.22	2.35	22.34
107	108	141.35	-0.12	0.59	-58.24	0	-39.52	2	22.11	2	15.47	2.35	22.70
108	108	141.35	0.00	0.60	-58.24	0	-39.43	2	22.13	2	15.49	2.35	22.71
108	109	142.93	0.00	0.60	-59.18	0	-40.06	2	22.49	2	15.74	2.35	23.08
109	109	142.93	0.00	0.60	-59.18	0	-40.06	2	22.49	2	15.74	2.35	23.08
109	110	143.50	0.00	0.60	-59.53	0	-40.30	2	22.62	2	15.83	2.35	23.22
110	110	143.50	0.00	0.60	-59.53	0	-40.30	2	22.62	2	15.83	2.35	23.22
110	111	144.50	0.00	0.60	-60.13	0	-40.71	2	22.85	2	15.99	2.35	23.45
111	1111	144.50	0.00	-2.56	-60.13	0	-40.71	2	22.85	2	15.99	2.35	23.45
111	112	145.50	0.00	-2.56	-57.57	0	-38.97	2	21.88	2	15.31	2.35	22.45
112	112	145.50	0.00	-2.56	-57.57	0	-38.97	2	21.88	2	15.31	2.35	22.45
112	113	145.68	0.00	-2.56	-57.12	0	-38.67	2	21.71	2	15.19	2.35	22.28
113	113	145.68	0.00	-2.56	-57.12	0	-38.67	2	21.71	2	15.19	2.35	22.28
113	114	146.85	0.00	-2.56	-54.11	0	-36.63	2	20.56	2	14.39	2.35	21.10
114	114	146.85	-0.66	-2.47	-54.11	0	-37.13	2	20.43	2	14.30	2.35	21.05
114	115	148.03	-0.66	-2.47	-51.11	0	-35.10	2	19.29	2	13.50	2.35	19.88

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase4.HIP.To.Tinf

...nsadoHiperestático(t=0)). Tensiones a tiempo Tinf

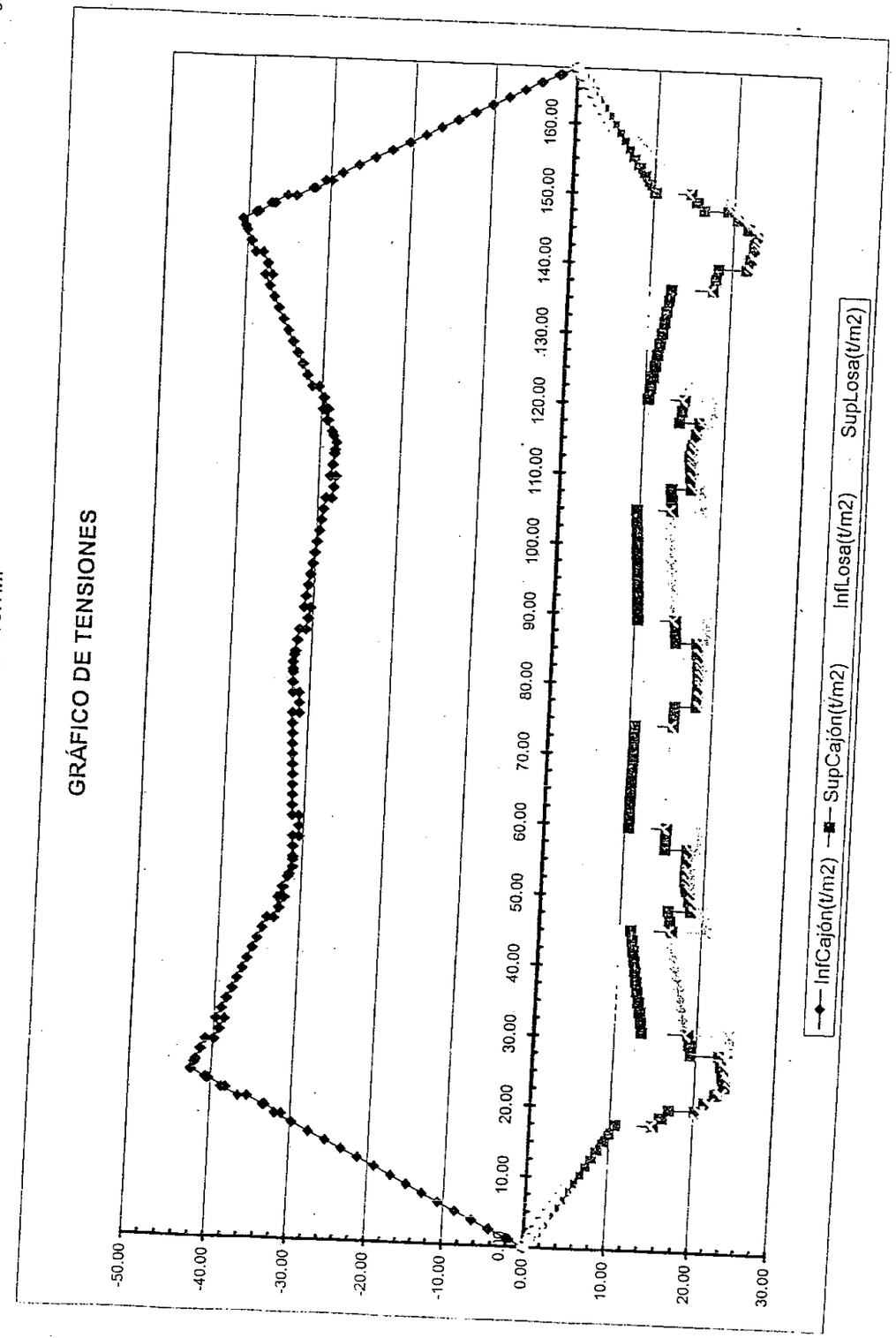
...ase4.HIP.To
Coef. esc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-0.66	-2.47	-51.11	0	-34.05	2	16.22	2	13.40	2.35	20.70
115	116	149.20	-0.66	-2.47	-48.10	0	-32.06	2	15.25	2	12.60	2.35	19.47
116	116	149.20	-0.03	-2.56	-48.10	0	-31.81	2	15.48	2	12.79	2.35	19.66
116	117	150.38	-0.03	-2.56	-45.10	0	-29.82	2	14.51	2	11.99	2.35	18.44
117	117	150.38	-0.03	-2.56	-45.10	0	-30.59	2	10.18	2	8.34	2.35	14.20
117	118	151.55	-0.03	-2.56	-42.09	0	-28.55	2	9.50	2	7.78	2.35	13.25
118	118	151.55	0.00	-2.56	-42.09	0	-28.54	2	9.51	2	7.79	2.35	13.26
118	119	152.73	0.00	-2.56	-39.08	0	-26.50	2	8.83	2	7.23	2.35	12.31
119	119	152.73	0.00	-2.56	-39.08	0	-26.50	2	8.83	2	7.23	2.35	12.31
119	120	153.90	0.00	-2.56	-36.08	0	-24.46	2	8.15	2	6.67	2.35	11.37
120	120	153.90	0.00	-2.56	-36.08	0	-24.46	2	8.15	2	6.67	2.35	11.37
120	121	155.08	0.00	-2.56	-33.07	0	-22.42	2	7.47	2	6.12	2.35	10.42
121	121	155.08	0.00	-2.56	-33.07	0	-22.42	2	7.47	2	6.12	2.35	10.42
121	122	156.25	0.00	-2.56	-30.06	0	-20.38	2	6.79	2	5.56	2.35	9.47
122	122	156.25	0.00	-2.56	-30.06	0	-20.38	2	6.79	2	5.56	2.35	9.47
122	123	157.43	0.00	-2.56	-27.06	0	-18.35	2	6.12	2	5.01	2.35	8.52
123	123	157.43	0.00	-2.56	-27.06	0	-18.35	2	6.12	2	5.01	2.35	8.52
123	124	158.60	0.00	-2.56	-24.05	0	-16.31	2	5.44	2	4.45	2.35	7.58
124	124	158.60	0.00	-2.56	-24.05	0	-16.31	2	5.44	2	4.45	2.35	7.58
124	125	159.78	0.00	-2.56	-21.04	0	-14.27	2	4.76	2	3.89	2.35	6.63
125	125	159.78	0.00	-2.56	-21.04	0	-14.27	2	4.76	2	3.89	2.35	6.63
125	126	160.95	0.00	-2.56	-18.04	0	-12.23	2	4.08	2	3.34	2.35	5.68
126	126	160.95	0.00	-2.56	-18.04	0	-12.23	2	4.08	2	3.34	2.35	5.68
126	127	162.13	0.00	-2.56	-15.03	0	-10.19	2	3.40	2	2.78	2.35	4.73
127	127	162.13	0.00	-2.56	-15.03	0	-10.19	2	3.40	2	2.78	2.35	4.73
127	128	163.30	0.00	-2.56	-12.03	0	-8.16	2	2.72	2	2.23	2.35	3.79
128	128	163.30	0.00	-2.56	-12.03	0	-8.16	2	2.72	2	2.23	2.35	3.79
128	129	164.48	0.00	-2.56	-9.02	0	-6.12	2	2.04	2	1.67	2.35	2.84
129	129	164.48	0.00	-2.56	-9.02	0	-6.12	2	2.04	2	1.67	2.35	2.84
129	130	165.65	0.00	-2.56	-6.01	0	-4.07	2	1.36	2	1.11	2.35	1.89
130	130	165.65	0.00	-2.56	-6.01	0	-4.07	2	1.36	2	1.11	2.35	1.89
130	131	166.83	0.00	-2.56	-3.01	0	-2.04	2	0.68	2	0.56	2.35	0.95
131	131	166.83	0.00	-2.56	-3.01	0	-2.04	2	0.68	2	0.56	2.35	0.95
131	132	167.00	0.00	-2.56	-2.56	0	-1.74	2	0.58	2	0.47	2.35	0.81
132	132	167.00	0.00	-2.56	-2.56	0	-1.74	2	0.58	2	0.47	2.35	0.81
132	133	168.00	0.00	-2.56	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

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CÁLCULO TENSIONAL

Hipótesis de cálculo:
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HormigonadoBCPilas). Tensiones a tiempo Tinf
HBCP
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	0.02	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	0.02	-0.02	0	-0.01	2	0.00	2	0.00	2.35	0.01
2	2	1.00	0.00	0.02	-0.02	0	-0.01	2	0.00	2	0.00	2.35	0.01
2	3	1.18	0.00	0.02	-0.02	0	-0.01	2	0.00	2	0.00	2.35	0.01
3	3	1.18	0.00	0.02	-0.02	0	-0.01	2	0.00	2	0.00	2.35	0.01
3	4	2.35	0.00	0.02	-0.04	0	-0.03	2	0.01	2	0.01	2.35	0.01
4	4	2.35	0.00	0.02	-0.04	0	-0.03	2	0.01	2	0.01	2.35	0.01
4	5	3.53	0.00	0.02	-0.06	0	-0.04	2	0.01	2	0.01	2.35	0.02
5	5	3.53	0.00	0.02	-0.06	0	-0.04	2	0.01	2	0.01	2.35	0.02
5	6	4.70	0.00	0.02	-0.08	0	-0.05	2	0.02	2	0.01	2.35	0.03
6	6	4.70	0.00	0.02	-0.08	0	-0.05	2	0.02	2	0.01	2.35	0.03
6	7	5.88	0.00	0.02	-0.10	0	-0.07	2	0.02	2	0.02	2.35	0.03
7	7	5.88	0.00	0.02	-0.10	0	-0.07	2	0.02	2	0.02	2.35	0.03
7	8	7.05	0.00	0.02	-0.11	0	-0.07	2	0.02	2	0.02	2.35	0.03
8	8	7.05	0.00	0.02	-0.11	0	-0.07	2	0.02	2	0.02	2.35	0.03
8	9	8.23	0.00	0.02	-0.13	0	-0.09	2	0.03	2	0.02	2.35	0.04
9	9	8.23	0.00	0.02	-0.13	0	-0.09	2	0.03	2	0.02	2.35	0.04
9	10	9.40	0.00	0.02	-0.15	0	-0.10	2	0.03	2	0.03	2.35	0.05
10	10	9.40	0.00	0.02	-0.15	0	-0.10	2	0.03	2	0.03	2.35	0.05
10	11	10.58	0.00	0.02	-0.17	0	-0.12	2	0.04	2	0.03	2.35	0.05
11	11	10.58	0.00	0.02	-0.17	0	-0.12	2	0.04	2	0.03	2.35	0.05
11	12	11.75	0.00	0.02	-0.19	0	-0.13	2	0.04	2	0.04	2.35	0.06
12	12	11.75	0.00	0.02	-0.19	0	-0.13	2	0.04	2	0.04	2.35	0.06
12	13	12.93	0.00	0.02	-0.21	0	-0.14	2	0.05	2	0.04	2.35	0.07
13	13	12.93	0.00	0.02	-0.21	0	-0.14	2	0.05	2	0.04	2.35	0.07
13	14	14.10	0.00	0.02	-0.23	0	-0.16	2	0.05	2	0.04	2.35	0.07
14	14	14.10	0.00	0.02	-0.23	0	-0.16	2	0.05	2	0.04	2.35	0.07
14	15	15.28	0.00	0.02	-0.25	0	-0.17	2	0.06	2	0.05	2.35	0.08
15	15	15.28	0.00	0.02	-0.25	0	-0.17	2	0.06	2	0.05	2.35	0.08
15	16	16.45	0.00	0.02	-0.27	0	-0.18	2	0.06	2	0.05	2.35	0.09
16	16	16.45	0.00	0.02	-0.27	0	-0.18	2	0.06	2	0.05	2.35	0.09
16	17	17.63	0.00	0.02	-0.29	0	-0.20	2	0.07	2	0.05	2.35	0.09
17	17	17.63	0.00	0.02	-0.29	0	-0.19	2	0.09	2	0.08	2.35	0.12
17	18	18.80	0.00	0.02	-0.31	0	-0.20	2	0.10	2	0.08	2.35	0.13
18	18	18.80	0.00	0.02	-0.31	0	-0.20	2	0.10	2	0.08	2.35	0.13
18	19	19.98	0.00	0.02	-0.32	0	-0.21	2	0.10	2	0.09	2.35	0.13
19	19	19.98	0.00	0.02	-0.32	0	-0.22	2	0.12	2	0.09	2.35	0.12
19	20	21.15	-0.94	3.52	-2.47	0	-2.38	2	0.75	2	0.52	2.35	0.89
20	20	21.15	0.00	3.64	-2.47	0	-1.67	2	0.94	2	0.66	2.35	0.96
20	21	22.33	0.00	7.15	-8.81	0	-5.96	2	3.35	2	2.34	2.35	3.44
21	21	22.33	0.00	7.15	-8.81	0	-5.96	2	3.35	2	2.34	2.35	3.44
21	22	22.50	0.00	7.67	-10.11	0	-6.84	2	3.84	2	2.69	2.35	3.94
22	22	22.50	0.00	7.67	-10.11	0	-6.84	2	3.84	2	2.69	2.35	3.94
22	23	23.50	0.00	10.65	-19.27	0	-13.05	2	7.32	2	5.13	2.35	7.52
1023	1023	23.50	0.00	-12.92	-19.27	0	-13.05	2	7.32	2	5.13	2.35	7.52
23	24	24.50	0.00	-9.93	-7.84	0	-5.31	2	2.98	2	2.09	2.35	3.06
24	24	24.50	0.00	-9.93	-7.84	0	-5.31	2	2.98	2	2.09	2.35	3.06
24	25	24.95	0.00	-8.59	-3.68	0	-2.49	2	1.40	2	0.98	2.35	1.44
25	25	24.95	0.00	-8.59	-3.68	0	-2.49	2	1.40	2	0.98	2.35	1.44
25	26	26.40	0.00	-4.27	5.65	0	3.83	2	-2.15	2	-1.50	2.35	-2.20
26	26	26.40	-0.90	-4.17	5.65	0	3.14	2	-2.32	2	-1.64	2.35	-2.27
26	27	27.85	0.03	0.15	8.63	0	5.87	2	-3.27	2	-2.29	2.35	-3.36
27	27	27.85	0.03	0.15	8.63	0	5.72	2	-2.77	2	-2.29	2.35	-3.52
27	28	29.30	0.03	0.15	8.40	0	5.56	2	-2.69	2	-2.23	2.35	-3.43
28	28	29.30	0.00	0.16	8.40	0	5.55	2	-2.70	2	-2.23	2.35	-3.44
28	29	30.75	0.00	0.16	8.18	0	5.41	2	-2.63	2	-2.18	2.35	-3.35
29	29	30.75	0.00	0.16	8.18	0	5.55	2	-1.85	2	-1.51	2.35	-2.58
29	30	32.20	0.00	0.16	7.95	0	5.39	2	-1.80	2	-1.47	2.35	-2.50
30	30	32.20	0.00	0.16	7.95	0	5.39	2	-1.80	2	-1.47	2.35	-2.50
30	31	33.65	0.00	0.16	7.73	0	5.24	2	-1.75	2	-1.43	2.35	-2.43
31	31	33.65	0.00	0.16	7.73	0	5.24	2	-1.75	2	-1.43	2.35	-2.43
31	32	35.10	0.00	0.16	7.50	0	5.09	2	-1.70	2	-1.39	2.35	-2.36
32	32	35.10	0.00	0.16	7.50	0	5.09	2	-1.70	2	-1.39	2.35	-2.36
32	33	36.55	0.00	0.16	7.27	0	4.93	2	-1.64	2	-1.34	2.35	-2.29
33	33	36.55	0.00	0.16	7.27	0	4.93	2	-1.64	2	-1.34	2.35	-2.29
33	34	38.00	0.00	0.16	7.05	0	4.78	2	-1.59	2	-1.30	2.35	-2.22
34	34	38.00	0.00	0.16	7.05	0	4.78	2	-1.59	2	-1.30	2.35	-2.22
34	35	39.45	0.00	0.16	6.82	0	4.62	2	-1.54	2	-1.26	2.35	-2.15
35	35	39.45	0.00	0.16	6.82	0	4.62	2	-1.54	2	-1.26	2.35	-2.15
35	36	40.90	0.00	0.16	6.60	0	4.47	2	-1.49	2	-1.22	2.35	-2.08
36	36	40.90	0.00	0.16	6.60	0	4.47	2	-1.49	2	-1.22	2.35	-2.08
36	37	42.35	0.00	0.16	6.37	0	4.32	2	-1.44	2	-1.18	2.35	-2.01
37	37	42.35	0.00	0.16	6.37	0	4.32	2	-1.44	2	-1.18	2.35	-2.01
37	38	43.80	0.00	0.16	6.15	0	4.17	2	-1.39	2	-1.14	2.35	-1.94
38	38	43.80	0.00	0.16	6.15	0	4.17	2	-1.39	2	-1.14	2.35	-1.94
38	39	45.25	0.00	0.16	5.92	0	4.01	2	-1.34	2	-1.10	2.35	-1.86

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CÁLCULO TENSIONAL

Hipótesis de cálculo:
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HBCP
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	0.00	0.16	5.92	0	3.91	2	-1.91	2	-1.57	2.35	-2.42
39	40	46.70	0.00	0.16	5.69	0	3.76	2	-1.83	2	-1.51	2.35	-2.33
40	40	46.70	-0.03	0.15	5.69	0	3.75	2	-1.84	2	-1.52	2.35	-2.34
40	41	48.15	-0.03	0.15	5.47	0	3.60	2	-1.77	2	-1.46	2.35	-2.25
41	41	48.15	-0.03	0.15	5.47	0	3.68	2	-2.08	2	-1.46	2.35	-2.14
41	42	49.60	-0.97	4.48	2.04	0	0.65	2	-0.97	2	-0.69	2.35	-0.87
42	42	49.60	0.00	4.58	2.04	0	1.38	2	-0.78	2	-0.54	2.35	-0.80
42	43	51.05	0.00	8.90	-7.74	0	-5.24	2	2.94	2	2.06	2.35	3.02
43	43	51.05	0.00	8.90	-7.74	0	-5.24	2	2.94	2	2.06	2.35	3.02
43	44	51.50	0.00	10.25	-12.05	0	-8.16	2	4.58	2	3.21	2.35	4.70
44	44	51.50	0.00	10.25	-12.05	0	-8.16	2	4.58	2	3.21	2.35	4.70
44	45	52.50	0.00	13.23	-23.79	0	-16.11	2	9.04	2	6.33	2.35	9.28
45	1045	52.50	0.00	-13.02	-23.79	0	-16.11	2	9.04	2	6.33	2.35	9.28
45	46	53.50	0.00	-10.04	-12.25	0	-8.29	2	4.65	2	3.26	2.35	4.78
46	46	53.50	0.00	-10.04	-12.25	0	-8.29	2	4.65	2	3.26	2.35	4.78
46	47	53.95	0.00	-8.70	-8.04	0	-5.44	2	3.06	2	2.14	2.35	3.14
47	47	53.95	0.00	-8.70	-8.04	0	-5.44	2	3.06	2	2.14	2.35	3.14
47	48	55.40	0.00	-4.38	1.44	0	0.97	2	-0.55	2	-0.38	2.35	-0.56
48	48	55.40	-0.92	-4.28	1.44	0	0.28	2	-0.73	2	-0.52	2.35	-0.63
48	49	56.85	0.01	0.05	4.58	0	3.11	2	-1.74	2	-1.22	2.35	-1.79
49	49	56.85	0.01	0.05	4.58	0	3.03	2	-1.47	2	-1.22	2.35	-1.87
49	50	58.30	0.01	0.05	4.51	0	2.99	2	-1.45	2	-1.20	2.35	-1.84
50	50	58.30	0.00	0.05	4.51	0	2.98	2	-1.45	2	-1.20	2.35	-1.84
50	51	59.75	0.00	0.05	4.44	0	2.93	2	-1.43	2	-1.18	2.35	-1.82
51	51	59.75	0.00	0.05	4.44	0	3.01	2	-1.00	2	-0.82	2.35	-1.40
51	52	61.20	0.00	0.05	4.37	0	2.96	2	-0.99	2	-0.81	2.35	-1.38
52	52	61.20	0.00	0.05	4.37	0	2.96	2	-0.99	2	-0.81	2.35	-1.38
52	53	62.65	0.00	0.05	4.30	0	2.92	2	-0.97	2	-0.80	2.35	-1.35
53	53	62.65	0.00	0.05	4.30	0	2.92	2	-0.97	2	-0.80	2.35	-1.35
53	54	64.10	0.00	0.05	4.23	0	2.87	2	-0.96	2	-0.78	2.35	-1.33
54	54	64.10	0.00	0.05	4.23	0	2.87	2	-0.96	2	-0.78	2.35	-1.33
54	55	65.55	0.00	0.05	4.16	0	2.82	2	-0.94	2	-0.77	2.35	-1.31
55	55	65.55	0.00	0.05	4.16	0	2.82	2	-0.94	2	-0.77	2.35	-1.31
55	56	67.00	0.00	0.05	4.09	0	2.77	2	-0.92	2	-0.76	2.35	-1.29
56	56	67.00	0.00	0.05	4.09	0	2.77	2	-0.92	2	-0.76	2.35	-1.29
56	57	68.45	0.00	0.05	4.02	0	2.73	2	-0.91	2	-0.74	2.35	-1.27
57	57	68.45	0.00	0.05	4.02	0	2.73	2	-0.91	2	-0.74	2.35	-1.27
57	58	69.90	0.00	0.05	3.95	0	2.68	2	-0.89	2	-0.73	2.35	-1.24
58	58	69.90	0.00	0.05	3.95	0	2.68	2	-0.89	2	-0.73	2.35	-1.24
58	59	71.35	0.00	0.05	3.88	0	2.63	2	-0.88	2	-0.72	2.35	-1.22
59	59	71.35	0.00	0.05	3.88	0	2.63	2	-0.88	2	-0.72	2.35	-1.22
59	60	72.80	0.00	0.05	3.81	0	2.58	2	-0.86	2	-0.70	2.35	-1.20
60	60	72.80	0.00	0.05	3.81	0	2.58	2	-0.86	2	-0.70	2.35	-1.20
60	61	74.25	0.00	0.05	3.74	0	2.54	2	-0.85	2	-0.69	2.35	-1.18
61	61	74.25	0.00	0.05	3.74	0	2.47	2	-1.20	2	-0.99	2.35	-1.53
61	62	75.70	0.00	0.05	3.67	0	2.43	2	-1.18	2	-0.98	2.35	-1.50
62	62	75.70	-0.01	0.05	3.67	0	2.42	2	-1.19	2	-0.98	2.35	-1.50
62	63	77.15	-0.01	0.05	3.60	0	2.38	2	-1.16	2	-0.96	2.35	-1.48
63	63	77.15	-0.01	0.05	3.60	0	2.43	2	-1.37	2	-0.96	2.35	-1.40
63	64	78.60	-0.95	4.37	0.32	0	-0.50	2	-0.31	2	-0.22	2.35	-0.19
64	64	78.60	0.00	4.47	0.32	0	0.22	2	-0.12	2	-0.09	2.35	-0.12
64	65	80.05	0.00	8.80	-9.30	0	-6.30	2	3.53	2	2.47	2.35	3.63
65	65	80.05	0.00	8.80	-9.30	0	-6.30	2	3.53	2	2.47	2.35	3.63
65	66	80.50	0.00	10.14	-13.56	0	-9.18	2	5.15	2	3.61	2.35	5.29
66	66	80.50	0.00	10.14	-13.56	0	-9.18	2	5.15	2	3.61	2.35	5.29
66	67	81.50	0.00	13.12	-25.19	0	-17.05	2	9.57	2	6.70	2.35	9.82
67	1067	81.50	0.00	-14.06	-25.19	0	-17.05	2	9.57	2	6.70	2.35	9.82
67	68	82.50	0.00	-11.08	-12.62	0	-8.54	2	4.80	2	3.36	2.35	4.92
68	68	82.50	0.00	-11.08	-12.62	0	-8.54	2	4.80	2	3.36	2.35	4.92
68	69	83.08	0.00	-9.36	-6.74	0	-4.56	2	2.56	2	1.79	2.35	2.63
69	69	83.08	0.00	-9.36	-6.74	0	-4.56	2	2.56	2	1.79	2.35	2.63
69	70	84.65	0.00	-4.67	4.31	0	2.92	2	-1.64	2	-1.15	2.35	-1.68
70	70	84.65	-0.91	-4.58	4.31	0	2.23	2	-1.82	2	-1.28	2.35	-1.75
70	71	86.23	0.02	0.12	7.89	0	5.36	2	-2.99	2	-2.10	2.35	-3.08
71	71	86.23	0.02	0.12	7.89	0	5.22	2	-2.53	2	-2.09	2.35	-3.22
71	72	87.80	0.02	0.12	7.70	0	5.10	2	-2.47	2	-2.04	2.35	-3.14
72	72	87.80	0.00	0.12	7.70	0	5.09	2	-2.48	2	-2.05	2.35	-3.15
72	73	89.38	0.00	0.12	7.51	0	4.96	2	-2.42	2	-2.00	2.35	-3.07
73	73	89.38	0.00	0.12	7.51	0	5.09	2	-1.70	2	-1.39	2.35	-2.37
73	74	90.95	0.00	0.12	7.32	0	4.96	2	-1.65	2	-1.35	2.35	-2.31
74	74	90.95	0.00	0.12	7.32	0	4.96	2	-1.65	2	-1.35	2.35	-2.31
74	75	92.53	0.00	0.12	7.13	0	4.83	2	-1.61	2	-1.32	2.35	-2.25
75	75	92.53	0.00	0.12	7.13	0	4.83	2	-1.61	2	-1.32	2.35	-2.25
75	76	94.10	0.00	0.12	6.94	0	4.71	2	-1.57	2	-1.28	2.35	-2.19
76	76	94.10	0.00	0.12	6.94	0	4.71	2	-1.57	2	-1.28	2.35	-2.19
76	77	95.68	0.00	0.12	6.75	0	4.58	2	-1.53	2	-1.25	2.35	-2.13

CÁLCULO TENSIONAL

Hipótesis de cálculo:
HBCP.Tinf
HormigonadoBCPilas). Tensiones a tiempo Tinf
HBCP
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	0.12	6.75	0	4.58	2	-1.53	2	-1.25	2.35	-2.13
77	78	97.25	0.00	0.12	6.55	0	4.44	2	-1.48	2	-1.21	2.35	-2.06
78	78	97.25	0.00	0.12	6.55	0	4.44	2	-1.48	2	-1.21	2.35	-2.06
78	79	98.83	0.00	0.12	6.36	0	4.31	2	-1.44	2	-1.18	2.35	-2.00
79	79	98.83	0.00	0.12	6.36	0	4.31	2	-1.44	2	-1.18	2.35	-2.00
79	80	100.40	0.00	0.12	6.17	0	4.18	2	-1.39	2	-1.14	2.35	-1.94
80	80	100.40	0.00	0.12	6.17	0	4.18	2	-1.39	2	-1.14	2.35	-1.94
80	81	101.98	0.00	0.12	5.98	0	4.05	2	-1.35	2	-1.11	2.35	-1.88
81	81	101.98	0.00	0.12	5.98	0	4.05	2	-1.35	2	-1.11	2.35	-1.88
81	82	103.55	0.00	0.12	5.79	0	3.93	2	-1.31	2	-1.07	2.35	-1.82
82	82	103.55	0.00	0.12	5.79	0	3.93	2	-1.31	2	-1.07	2.35	-1.82
82	83	105.13	0.00	0.12	5.60	0	3.80	2	-1.27	2	-1.04	2.35	-1.76
83	83	105.13	0.00	0.12	5.60	0	3.70	2	-1.80	2	-1.49	2.35	-2.29
83	84	106.70	0.00	0.12	5.41	0	3.58	2	-1.74	2	-1.44	2.35	-2.21
84	84	106.70	-0.02	0.12	5.41	0	3.57	2	-1.75	2	-1.44	2.35	-2.22
84	85	108.28	-0.02	0.12	5.22	0	3.44	2	-1.69	2	-1.39	2.35	-2.14
85	85	108.28	-0.02	0.12	5.22	0	3.52	2	-1.99	2	-1.39	2.35	-2.04
85	86	109.85	-0.96	4.82	1.26	0	0.13	2	-0.67	2	-0.48	2.35	-0.56
86	86	109.85	0.00	4.91	1.26	0	0.85	2	-0.48	2	-0.34	2.35	-0.49
87	87	111.43	0.00	9.61	-10.17	0	-6.89	2	3.86	2	2.71	2.35	3.97
87	87	111.43	0.00	9.61	-10.17	0	-6.89	2	3.86	2	2.71	2.35	3.97
87	88	112.00	0.00	11.32	-16.19	0	-10.96	2	6.15	2	4.31	2.35	6.31
88	88	112.00	0.00	11.32	-16.19	0	-10.96	2	6.15	2	4.31	2.35	6.31
88	89	113.00	0.00	14.30	-29.00	0	-19.63	2	11.02	2	7.71	2.35	11.31
89	1089	113.00	0.00	-14.42	-29.00	0	-19.63	2	11.02	2	7.71	2.35	11.31
89	90	114.00	0.00	-11.43	-16.08	0	-10.89	2	6.11	2	4.28	2.35	6.27
90	90	114.00	0.00	-11.43	-16.08	0	-10.89	2	6.11	2	4.28	2.35	6.27
90	91	114.58	0.00	-9.72	-9.99	0	-6.76	2	3.80	2	2.66	2.35	3.90
91	91	114.58	0.00	-9.72	-9.99	0	-6.76	2	3.80	2	2.66	2.35	3.90
91	92	116.15	0.00	-5.02	1.62	0	1.10	2	-0.62	2	-0.43	2.35	-0.63
92	92	116.15	-0.98	-4.93	1.62	0	0.35	2	-0.81	2	-0.57	2.35	-0.70
92	93	117.73	-0.05	-0.23	5.76	0	3.86	2	-2.20	2	-1.54	2.35	-2.25
93	93	117.73	-0.05	-0.23	5.76	0	3.79	2	-1.87	2	-1.55	2.35	-2.37
93	94	119.30	-0.05	-0.23	6.13	0	4.03	2	-1.99	2	-1.65	2.35	-2.52
94	94	119.30	0.00	-0.23	6.13	0	4.05	2	-1.97	2	-1.63	2.35	-2.51
94	95	120.88	0.00	-0.23	6.50	0	4.30	2	-2.09	2	-1.73	2.35	-2.66
95	95	120.88	0.00	-0.23	6.50	0	4.41	2	-1.47	2	-1.20	2.35	-2.05
95	96	122.45	0.00	-0.23	6.87	0	4.66	2	-1.55	2	-1.27	2.35	-2.16
96	96	122.45	0.00	-0.23	6.87	0	4.66	2	-1.55	2	-1.27	2.35	-2.16
96	97	124.03	0.00	-0.23	7.24	0	4.91	2	-1.64	2	-1.34	2.35	-2.28
97	97	124.03	0.00	-0.23	7.24	0	4.91	2	-1.64	2	-1.34	2.35	-2.28
97	98	125.60	0.00	-0.23	7.61	0	5.16	2	-1.72	2	-1.41	2.35	-2.40
98	98	125.60	0.00	-0.23	7.61	0	5.16	2	-1.72	2	-1.41	2.35	-2.40
98	99	127.18	0.00	-0.23	7.98	0	5.41	2	-1.80	2	-1.48	2.35	-2.51
99	99	127.18	0.00	-0.23	7.98	0	5.41	2	-1.80	2	-1.48	2.35	-2.51
100	100	128.75	0.00	-0.23	8.35	0	5.66	2	-1.89	2	-1.54	2.35	-2.63
100	101	130.33	0.00	-0.23	8.35	0	5.66	2	-1.89	2	-1.54	2.35	-2.63
101	101	130.33	0.00	-0.23	8.72	0	5.91	2	-1.97	2	-1.61	2.35	-2.75
101	102	131.90	0.00	-0.23	8.72	0	5.91	2	-1.97	2	-1.61	2.35	-2.75
102	102	131.90	0.00	-0.23	9.09	0	6.16	2	-2.05	2	-1.68	2.35	-2.86
102	103	133.48	0.00	-0.23	9.09	0	6.16	2	-2.05	2	-1.68	2.35	-2.86
103	103	133.48	0.00	-0.23	9.46	0	6.41	2	-2.14	2	-1.75	2.35	-2.98
103	104	135.05	0.00	-0.23	9.46	0	6.41	2	-2.14	2	-1.75	2.35	-2.98
104	104	135.05	0.00	-0.23	9.83	0	6.66	2	-2.22	2	-1.82	2.35	-3.10
104	105	136.63	0.00	-0.23	9.83	0	6.66	2	-2.22	2	-1.82	2.35	-3.10
105	105	136.63	0.00	-0.23	10.20	0	6.92	2	-2.31	2	-1.89	2.35	-3.21
105	106	138.20	0.00	-0.23	10.20	0	6.74	2	-3.28	2	-2.71	2.35	-4.17
106	106	138.20	0.05	-0.23	10.57	0	6.99	2	-3.40	2	-2.81	2.35	-4.32
106	107	139.78	0.05	-0.23	10.57	0	7.01	2	-3.39	2	-2.80	2.35	-4.31
107	107	139.78	0.05	-0.23	10.94	0	7.25	2	-3.50	2	-2.90	2.35	-4.46
107	108	141.35	-0.89	4.47	7.54	0	7.44	2	-4.15	2	-2.90	2.35	-4.26
108	108	141.35	0.00	4.55	7.54	0	4.43	2	-3.04	2	-2.14	2.35	-3.01
108	109	142.93	0.00	9.25	-3.34	0	5.10	2	-2.87	2	-2.01	2.35	-2.94
109	109	142.93	0.00	9.25	-3.34	0	-2.26	2	1.27	2	0.89	2.35	1.30
109	110	143.50	0.00	10.97	-9.15	0	-2.26	2	1.27	2	0.89	2.35	1.30
110	110	143.50	0.00	10.97	-9.15	0	-6.19	2	3.48	2	2.43	2.35	3.57
110	111	144.50	0.00	13.95	-21.60	0	-6.19	2	3.48	2	2.43	2.35	3.57
111	1111	144.50	0.00	-10.75	-21.60	0	-14.62	2	8.21	2	5.75	2.35	8.42
111	112	145.50	0.00	-7.77	-12.34	0	-14.62	2	8.21	2	5.75	2.35	8.42
112	112	145.50	0.00	-7.77	-12.34	0	-8.35	2	4.69	2	3.28	2.35	4.81
112	113	145.68	0.00	-7.25	-11.03	0	-8.35	2	4.69	2	3.28	2.35	4.81
113	113	145.68	0.00	-7.25	-11.03	0	-7.47	2	4.19	2	2.93	2.35	4.30
113	114	146.85	0.00	-3.74	-4.58	0	-7.47	2	4.19	2	2.93	2.35	4.30
114	114	146.85	-0.96	-3.62	-4.58	0	-3.10	2	1.74	2	1.22	2.35	1.79
114	115	148.03	-0.03	-0.11	-2.31	0	-3.83	2	1.55	2	1.08	2.35	1.72
						0	-1.59	2	0.87	2	0.61	2.35	0.90

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HBCP.Tinf
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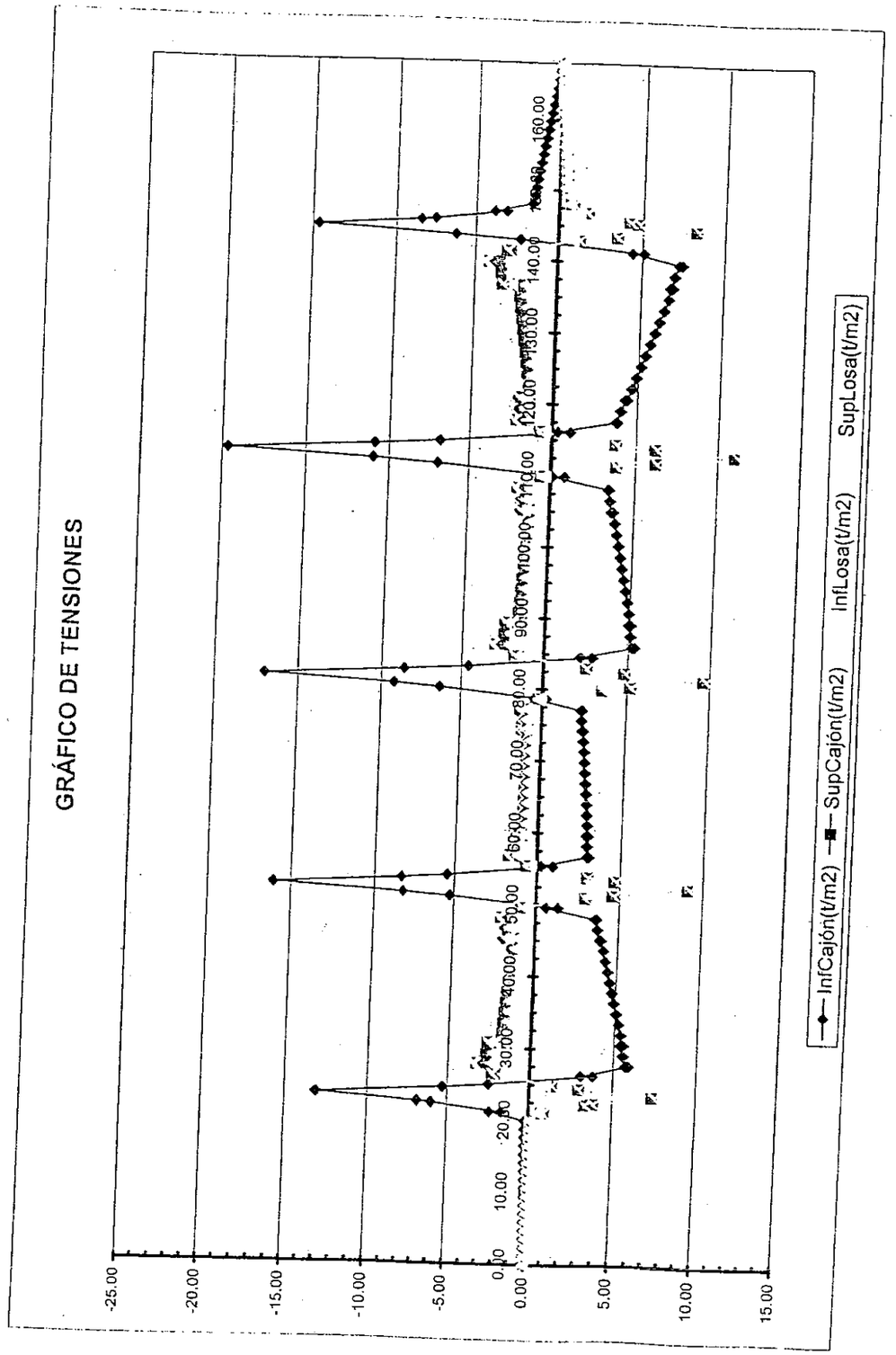
CÁLCULO TENSIONAL
Hipótesis de cálculo:
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HormigonadoBCPilas). Tensiones a tiempo Tinf
HBCP
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-0.03	-0.11	-2.31	0	-1.54	2	0.73	2	0.61	2.35	0.94
115	116	149.20	-0.03	-0.11	-2.17	0	-1.45	2	0.69	2	0.57	2.35	0.88
116	116	149.20	0.00	-0.12	-2.17	0	-1.43	2	0.70	2	0.58	2.35	0.89
116	117	150.38	0.00	-0.12	-2.04	0	-1.35	2	0.66	2	0.54	2.35	0.83
117	117	150.38	0.00	-0.12	-2.04	0	-1.38	2	0.46	2	0.38	2.35	0.64
117	118	151.55	0.00	-0.12	-1.90	0	-1.29	2	0.43	2	0.35	2.35	0.60
118	118	151.55	0.00	-0.12	-1.90	0	-1.29	2	0.43	2	0.35	2.35	0.60
118	119	152.73	0.00	-0.12	-1.77	0	-1.20	2	0.40	2	0.33	2.35	0.56
119	119	152.73	0.00	-0.12	-1.77	0	-1.20	2	0.40	2	0.33	2.35	0.56
119	120	153.90	0.00	-0.12	-1.63	0	-1.11	2	0.37	2	0.30	2.35	0.51
120	120	153.90	0.00	-0.12	-1.63	0	-1.11	2	0.37	2	0.30	2.35	0.51
120	121	155.08	0.00	-0.12	-1.49	0	-1.01	2	0.34	2	0.28	2.35	0.47
121	121	155.08	0.00	-0.12	-1.49	0	-1.01	2	0.34	2	0.28	2.35	0.47
121	122	156.25	0.00	-0.12	-1.36	0	-0.92	2	0.31	2	0.25	2.35	0.43
122	122	156.25	0.00	-0.12	-1.36	0	-0.92	2	0.31	2	0.25	2.35	0.43
122	123	157.43	0.00	-0.12	-1.22	0	-0.83	2	0.28	2	0.23	2.35	0.38
123	123	157.43	0.00	-0.12	-1.22	0	-0.83	2	0.28	2	0.23	2.35	0.38
123	124	158.60	0.00	-0.12	-1.09	0	-0.74	2	0.25	2	0.20	2.35	0.34
124	124	158.60	0.00	-0.12	-1.09	0	-0.74	2	0.25	2	0.20	2.35	0.34
124	125	159.78	0.00	-0.12	-0.95	0	-0.64	2	0.21	2	0.18	2.35	0.30
125	125	159.78	0.00	-0.12	-0.95	0	-0.64	2	0.21	2	0.18	2.35	0.30
125	126	160.95	0.00	-0.12	-0.82	0	-0.56	2	0.19	2	0.15	2.35	0.26
126	126	160.95	0.00	-0.12	-0.82	0	-0.56	2	0.19	2	0.15	2.35	0.26
126	127	162.13	0.00	-0.12	-0.68	0	-0.46	2	0.15	2	0.13	2.35	0.21
127	127	162.13	0.00	-0.12	-0.68	0	-0.46	2	0.15	2	0.13	2.35	0.21
127	128	163.30	0.00	-0.12	-0.54	0	-0.37	2	0.12	2	0.10	2.35	0.17
128	128	163.30	0.00	-0.12	-0.54	0	-0.37	2	0.12	2	0.10	2.35	0.17
128	129	164.48	0.00	-0.12	-0.41	0	-0.28	2	0.09	2	0.08	2.35	0.13
129	129	164.48	0.00	-0.12	-0.41	0	-0.28	2	0.09	2	0.08	2.35	0.13
129	130	165.65	0.00	-0.12	-0.27	0	-0.18	2	0.06	2	0.05	2.35	0.09
130	130	165.65	0.00	-0.12	-0.27	0	-0.18	2	0.06	2	0.05	2.35	0.09
130	131	166.83	0.00	-0.12	-0.14	0	-0.09	2	0.03	2	0.03	2.35	0.04
131	131	166.83	0.00	-0.12	-0.14	0	-0.09	2	0.03	2	0.03	2.35	0.04
131	132	167.00	0.00	-0.12	-0.12	0	-0.08	2	0.03	2	0.02	2.35	0.04
132	132	167.00	0.00	-0.12	-0.12	0	-0.08	2	0.03	2	0.02	2.35	0.04
132	133	168.00	0.00	-0.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
HVOL.Tinf
Hormigonadovoladizos). Tensiones a tiempo Tinf
1: tipHVOL
nel exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-8.27	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-7.32	7.80	0	5.29	2	-1.76	2	-1.44	2.35	-2.46
2	2	1.00	0.00	-7.32	7.80	0	5.29	2	-1.76	2	-1.44	2.35	-2.46
2	3	1.18	0.00	-7.16	9.06	0	6.14	2	-2.05	2	-1.68	2.35	-2.85
3	3	1.18	0.00	-7.16	9.06	0	6.14	2	-2.05	2	-1.68	2.35	-2.85
3	4	2.35	0.00	-6.05	16.82	0	11.40	2	-3.80	2	-3.11	2.35	-5.30
4	4	2.35	0.00	-6.05	16.82	0	11.40	2	-3.80	2	-3.11	2.35	-5.30
4	5	3.53	0.00	-4.93	23.27	0	15.78	2	-5.26	2	-4.30	2.35	-7.33
5	5	3.53	0.00	-4.93	23.27	0	15.78	2	-5.26	2	-4.30	2.35	-7.33
5	6	4.70	0.00	-3.82	28.42	0	19.27	2	-6.42	2	-5.26	2.35	-8.95
6	6	4.70	0.00	-3.82	28.42	0	19.27	2	-6.42	2	-5.26	2.35	-8.95
6	7	5.88	0.00	-2.71	32.25	0	21.87	2	-7.29	2	-5.97	2.35	-10.16
7	7	5.88	0.00	-2.71	32.25	0	21.87	2	-7.29	2	-5.97	2.35	-10.16
7	8	7.05	0.00	-1.60	34.79	0	23.59	2	-7.86	2	-6.44	2.35	-10.96
8	8	7.05	0.00	-1.60	34.79	0	23.59	2	-7.86	2	-6.44	2.35	-10.96
8	9	8.23	0.00	-0.49	36.01	0	24.41	2	-8.14	2	-6.66	2.35	-11.34
9	9	8.23	0.00	-0.49	36.01	0	24.41	2	-8.14	2	-6.66	2.35	-11.34
9	10	9.40	0.00	0.62	35.94	0	24.37	2	-8.12	2	-6.65	2.35	-11.32
10	10	9.40	0.00	0.62	35.94	0	24.37	2	-8.12	2	-6.65	2.35	-11.32
10	11	10.58	0.00	1.73	34.55	0	23.42	2	-7.81	2	-6.39	2.35	-10.88
11	11	10.58	0.00	1.73	34.55	0	23.42	2	-7.81	2	-6.39	2.35	-10.88
11	12	11.75	0.00	2.85	31.86	0	21.60	2	-7.20	2	-5.89	2.35	-10.04
12	12	11.75	0.00	2.85	31.86	0	21.60	2	-7.20	2	-5.89	2.35	-10.04
12	13	12.93	0.00	3.96	27.86	0	18.89	2	-6.30	2	-5.15	2.35	-8.78
13	13	12.93	0.00	3.96	27.86	0	18.89	2	-6.30	2	-5.15	2.35	-8.78
13	14	14.10	0.00	5.07	22.56	0	15.30	2	-5.10	2	-4.17	2.35	-7.11
14	14	14.10	0.00	5.07	22.56	0	15.30	2	-5.10	2	-4.17	2.35	-7.11
14	15	15.28	0.00	6.18	15.95	0	10.81	2	-3.60	2	-2.95	2.35	-5.02
15	15	15.28	0.00	6.18	15.95	0	10.81	2	-3.60	2	-2.95	2.35	-5.02
15	16	16.45	0.00	7.29	8.03	0	5.44	2	-1.81	2	-1.49	2.35	-2.53
16	16	16.45	-0.07	7.29	8.03	0	5.42	2	-1.84	2	-1.50	2.35	-2.55
16	17	17.63	-0.09	8.40	-1.19	0	-0.84	2	0.24	2	0.20	2.35	0.35
17	17	17.63	-0.09	8.40	-1.19	0	-0.82	2	0.35	2	0.29	2.35	0.46
17	18	18.80	-0.10	9.52	-11.72	0	-7.79	2	3.74	2	3.09	2.35	4.76
18	18	18.80	0.00	9.52	-11.72	0	-7.75	2	3.77	2	3.12	2.35	4.79
18	19	19.98	0.00	10.63	-23.55	0	-15.57	2	7.58	2	6.26	2.35	9.63
19	19	19.98	0.00	10.63	-23.55	0	-15.57	2	7.58	2	6.26	2.35	9.63
19	20	21.15	0.00	11.74	-36.69	0	-24.25	2	11.81	2	9.76	2.35	15.01
20	20	21.15	0.00	11.74	-36.69	0	-24.25	2	11.81	2	9.76	2.35	15.01
20	21	22.33	0.00	12.85	-51.14	0	-33.80	2	16.47	2	13.60	2.35	20.92
21	21	22.33	0.00	12.85	-51.14	0	-33.80	2	16.47	2	13.60	2.35	20.92
21	22	22.50	0.00	13.02	-53.40	0	-35.30	2	17.19	2	14.20	2.35	21.84
22	22	22.50	0.00	13.02	-53.40	0	-35.30	2	17.19	2	14.20	2.35	21.84
22	23	23.50	0.00	13.96	-66.89	0	-44.21	2	21.54	2	17.79	2.35	27.36
23	1023	23.50	0.00	-13.77	-66.89	0	-44.21	2	21.54	2	17.79	2.35	27.36
23	24	24.50	0.00	-12.83	-53.59	0	-35.42	2	17.26	2	14.25	2.35	21.92
24	24	24.50	0.00	-12.83	-53.59	0	-35.42	2	17.26	2	14.25	2.35	21.92
24	25	24.95	0.00	-12.40	-47.92	0	-31.68	2	15.43	2	12.75	2.35	19.60
25	25	24.95	0.00	-12.40	-47.92	0	-31.68	2	15.43	2	12.75	2.35	19.60
25	26	26.40	0.00	-11.03	-30.93	0	-20.44	2	9.96	2	8.23	2.35	12.65
26	26	26.40	0.00	-11.03	-30.93	0	-20.44	2	9.96	2	8.23	2.35	12.65
26	27	27.85	0.00	-9.66	-15.93	0	-10.53	2	5.13	2	4.24	2.35	6.52
27	27	27.85	0.00	-9.66	-15.93	0	-10.53	2	5.13	2	4.24	2.35	6.52
27	28	29.30	0.00	-8.29	-2.92	0	-1.93	2	0.94	2	0.78	2.35	1.19
28	28	29.30	-0.07	-8.29	-2.92	0	-1.96	2	0.92	2	0.76	2.35	1.17
28	29	30.75	-0.06	-6.91	8.10	0	5.33	2	-2.63	2	-2.17	2.35	-3.33
29	29	30.75	-0.06	-6.91	8.10	0	5.47	2	-1.85	2	-1.51	2.35	-2.57
29	30	32.20	-0.05	-5.54	17.13	0	11.59	2	-3.89	2	-3.18	2.35	-5.41
30	30	32.20	0.00	-5.54	17.13	0	11.61	2	-3.87	2	-3.17	2.35	-5.40
30	31	33.65	0.00	-4.17	24.17	0	16.39	2	-5.46	2	-4.47	2.35	-7.61
31	31	33.65	0.00	-4.17	24.17	0	16.39	2	-5.46	2	-4.47	2.35	-7.61
31	32	35.10	0.00	-2.80	29.22	0	19.81	2	-6.60	2	-5.41	2.35	-9.20
32	32	35.10	0.00	-2.80	29.22	0	19.81	2	-6.60	2	-5.41	2.35	-9.20
32	33	36.55	0.00	-1.43	32.28	0	21.89	2	-7.30	2	-5.97	2.35	-10.17
33	33	36.55	0.00	-1.43	32.28	0	21.89	2	-7.30	2	-5.97	2.35	-10.17
33	34	38.00	0.00	-0.06	33.36	0	22.62	2	-7.54	2	-6.17	2.35	-10.51
34	34	38.00	0.00	-0.06	33.36	0	22.62	2	-7.54	2	-6.17	2.35	-10.51
34	35	39.45	0.00	1.32	32.44	0	21.99	2	-7.33	2	-6.00	2.35	-10.22
35	35	39.45	0.00	1.32	32.44	0	21.99	2	-7.33	2	-6.00	2.35	-10.22
35	36	40.90	0.00	2.69	29.54	0	20.03	2	-6.68	2	-5.46	2.35	-9.31
36	36	40.90	0.00	2.69	29.54	0	20.03	2	-6.68	2	-5.46	2.35	-9.31
36	37	42.35	0.00	4.06	24.65	0	16.71	2	-5.57	2	-4.56	2.35	-7.76
37	37	42.35	0.00	4.06	24.65	0	16.71	2	-5.57	2	-4.56	2.35	-7.76
37	38	43.80	0.00	5.43	17.77	0	12.05	2	-4.02	2	-3.29	2.35	-5.60
38	38	43.80	-0.05	5.43	17.77	0	12.03	2	-4.03	2	-3.30	2.35	-5.61
38	39	45.25	-0.05	6.80	8.90	0	6.01	2	-2.03	2	-1.66	2.35	-2.83



CÁLCULO TENSIONAL

Hipótesis de cálculo:
HVOL.Tinf

Hormigonadovoladizos). Tensiones a tiempo Tinf

HVOL
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-0.06	6.80	8.90	0	5.86	2	-2.89	2	-2.39	2.35	-3.66
39	40	46.70	-0.07	8.17	-1.96	0	-1.32	2	0.61	2	0.50	2.35	0.78
40	40	46.70	0.00	8.18	-1.96	0	-1.30	2	0.63	2	0.52	2.35	0.80
40	41	48.15	0.00	9.55	-14.81	0	-9.79	2	4.77	2	3.94	2.35	6.06
41	41	48.15	0.00	9.55	-14.81	0	-9.79	2	4.77	2	3.94	2.35	6.06
41	42	49.60	0.00	10.92	-29.65	0	-19.60	2	9.55	2	7.89	2.35	12.13
42	42	49.60	0.00	10.92	-29.65	0	-19.60	2	9.55	2	7.89	2.35	12.13
42	43	51.05	0.00	12.29	-46.47	0	-30.72	2	14.96	2	12.36	2.35	19.01
43	43	51.05	0.00	12.29	-46.47	0	-30.72	2	14.96	2	12.36	2.35	19.01
43	44	51.50	0.00	12.72	-52.10	0	-34.44	2	16.78	2	13.86	2.35	21.31
44	44	51.50	0.00	12.72	-52.10	0	-34.44	2	16.78	2	13.86	2.35	21.31
44	45	52.50	0.00	13.66	-65.29	0	-43.16	2	21.02	2	17.37	2.35	26.70
45	1045	52.50	0.00	-13.47	-65.29	0	-43.16	2	21.02	2	17.37	2.35	26.70
45	46	53.50	0.00	-12.52	-52.30	0	-34.57	2	16.84	2	13.91	2.35	21.39
46	46	53.50	0.00	-12.52	-52.30	0	-34.57	2	16.84	2	13.91	2.35	21.39
46	47	53.95	0.00	-12.09	-46.76	0	-30.91	2	15.06	2	12.44	2.35	19.12
47	47	53.95	0.00	-12.09	-46.76	0	-30.91	2	15.06	2	12.44	2.35	19.12
47	48	55.40	0.00	-10.72	-30.21	0	-19.97	2	9.73	2	8.04	2.35	12.36
48	48	55.40	0.00	-10.72	-30.21	0	-19.97	2	9.73	2	8.04	2.35	12.36
8	49	56.85	0.00	-9.35	-15.66	0	-10.35	2	5.04	2	4.17	2.35	6.40
49	49	56.85	0.00	-9.35	-15.66	0	-10.35	2	5.04	2	4.17	2.35	6.40
49	50	58.30	0.00	-7.98	-3.10	0	-2.05	2	1.00	2	0.82	2.35	1.27
50	50	58.30	-0.07	-7.98	-3.10	0	-2.08	2	0.97	2	0.80	2.35	1.25
50	51	59.75	-0.05	-6.61	7.48	0	4.92	2	-2.43	2	-2.00	2.35	-3.07
51	51	59.75	-0.05	-6.61	7.48	0	5.05	2	-1.71	2	-1.40	2.35	-2.37
51	52	61.20	-0.04	-5.24	16.07	0	10.88	2	-3.64	2	-2.98	2.35	-5.07
52	52	61.20	0.00	-5.24	16.07	0	10.90	2	-3.63	2	-2.97	2.35	-5.06
52	53	62.65	0.00	-3.86	22.67	0	15.37	2	-5.12	2	-4.19	2.35	-7.14
53	53	62.65	0.00	-3.86	22.67	0	15.37	2	-5.12	2	-4.19	2.35	-7.14
53	54	64.10	0.00	-2.49	27.27	0	18.49	2	-6.16	2	-5.04	2.35	-8.59
54	54	64.10	0.00	-2.49	27.27	0	18.49	2	-6.16	2	-5.04	2.35	-8.59
54	55	65.55	0.00	-1.12	29.89	0	20.27	2	-6.76	2	-5.53	2.35	-9.42
55	55	65.55	0.00	-1.12	29.89	0	20.27	2	-6.76	2	-5.53	2.35	-9.42
55	56	67.00	0.00	0.25	30.53	0	20.70	2	-6.90	2	-5.65	2.35	-9.62
56	56	67.00	0.00	0.25	30.53	0	20.70	2	-6.90	2	-5.65	2.35	-9.62
56	57	68.45	0.00	1.62	29.17	0	19.78	2	-6.59	2	-5.40	2.35	-9.19
57	57	68.45	0.00	1.62	29.17	0	19.78	2	-6.59	2	-5.40	2.35	-9.19
57	58	69.90	0.00	2.99	25.82	0	17.51	2	-5.84	2	-4.78	2.35	-8.13
58	58	69.90	0.00	2.99	25.82	0	17.51	2	-5.84	2	-4.78	2.35	-8.13
58	59	71.35	0.00	4.37	20.49	0	13.89	2	-4.63	2	-3.79	2.35	-6.45
59	59	71.35	0.00	4.37	20.49	0	13.89	2	-4.63	2	-3.79	2.35	-6.45
59	60	72.80	0.00	5.74	13.16	0	8.92	2	-2.97	2	-2.43	2.35	-4.15
60	60	72.80	-0.05	5.74	13.16	0	8.90	2	-2.99	2	-2.45	2.35	-4.16
60	61	74.25	-0.06	7.11	3.85	0	2.59	2	-0.89	2	-0.73	2.35	-1.23
)	61	74.25	-0.06	7.11	3.85	0	2.52	2	-1.26	2	-1.04	2.35	-1.59
)	62	75.70	-0.07	8.48	-7.46	0	-4.96	2	2.38	2	1.96	2.35	3.03
62	62	75.70	0.00	8.48	-7.46	0	-4.93	2	2.40	2	1.98	2.35	3.05
62	63	77.15	0.00	9.85	-20.75	0	-13.72	2	6.68	2	5.52	2.35	8.49
63	63	77.15	0.00	9.85	-20.75	0	-13.72	2	6.68	2	5.52	2.35	8.49
63	64	78.60	0.00	11.22	-36.03	0	-23.82	2	11.60	2	9.58	2.35	14.74
64	64	78.60	0.00	11.22	-36.03	0	-23.82	2	11.60	2	9.58	2.35	14.74
64	65	80.05	0.00	12.60	-53.30	0	-35.23	2	17.16	2	14.18	2.35	21.80
65	65	80.05	0.00	12.60	-53.30	0	-35.23	2	17.16	2	14.18	2.35	21.80
65	66	80.50	0.00	13.02	-59.06	0	-39.04	2	19.02	2	15.71	2.35	24.16
66	66	80.50	0.00	13.02	-59.06	0	-39.04	2	19.02	2	15.71	2.35	24.16
66	67	81.50	0.00	13.97	-72.56	0	-47.96	2	23.36	2	19.30	2.35	29.68
67	1067	81.50	0.00	-14.60	-72.56	0	-47.96	2	23.36	2	19.30	2.35	29.68
67	68	82.50	0.00	-13.65	-58.43	0	-38.62	2	18.81	2	15.54	2.35	23.90
68	68	82.50	0.00	-13.65	-58.43	0	-38.62	2	18.81	2	15.54	2.35	23.90
68	69	83.08	0.00	-13.11	-50.73	0	-33.53	2	16.34	2	13.49	2.35	20.75
69	69	83.08	0.00	-13.11	-50.73	0	-33.53	2	16.34	2	13.49	2.35	20.75
69	70	84.65	0.00	-11.62	-31.26	0	-20.66	2	10.07	2	8.32	2.35	12.79
70	70	84.65	0.00	-11.62	-31.26	0	-20.66	2	10.07	2	8.32	2.35	12.79
70	71	86.23	0.00	-10.13	-14.13	0	-9.34	2	4.55	2	3.76	2.35	5.78
71	71	86.23	0.00	-10.13	-14.13	0	-9.34	2	4.55	2	3.76	2.35	5.78
71	72	87.80	0.00	-8.64	0.66	0	0.44	2	-0.21	2	-0.18	2.35	-0.27
72	72	87.80	-0.07	-8.64	0.66	0	0.41	2	-0.24	2	-0.20	2.35	-0.29
72	73	89.38	-0.05	-7.15	13.09	0	8.63	2	-4.23	2	-3.50	2.35	-5.37
7	73	89.38	-0.05	-7.15	13.09	0	8.86	2	-2.97	2	-2.43	2.35	-4.14
)	74	90.95	-0.04	-5.66	23.18	0	15.70	2	-5.25	2	-4.30	2.35	-7.31
74	74	90.95	0.00	-5.66	23.18	0	15.72	2	-5.24	2	-4.29	2.35	-7.30
74	75	92.53	0.00	-4.17	30.92	0	20.96	2	-6.99	2	-5.72	2.35	-9.74
75	75	92.53	0.00	-4.17	30.92	0	20.96	2	-6.99	2	-5.72	2.35	-9.74
75	76	94.10	0.00	-2.68	36.32	0	24.62	2	-8.21	2	-6.72	2.35	-11.44
76	76	94.10	0.00	-2.68	36.32	0	24.62	2	-8.21	2	-6.72	2.35	-11.44
76	77	95.68	0.00	-1.19	39.37	0	26.69	2	-8.90	2	-7.28	2.35	-12.40

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Programa DINTEL IDEAM S.A.
HVOL.Tinf
05/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
HVOL.Tinf

Hormigonadovoladizos). Tensiones a tiempo Tinf

HVOL
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-1.19	39.37	0	26.69	2	-8.90	2	-7.28	2.35	-12.40
77	78	97.25	0.00	0.30	40.07	0	27.17	2	-9.06	2	-7.41	2.35	-12.62
78	78	97.25	0.00	0.30	40.07	0	27.17	2	-9.06	2	-7.41	2.35	-12.62
78	79	98.83	0.00	1.79	38.43	0	26.06	2	-8.69	2	-7.11	2.35	-12.11
79	79	98.83	0.00	1.79	38.43	0	26.06	2	-8.69	2	-7.11	2.35	-12.11
79	80	100.40	0.00	3.28	34.44	0	23.35	2	-7.78	2	-6.37	2.35	-10.85
80	80	100.40	0.00	3.28	34.44	0	23.35	2	-7.78	2	-6.37	2.35	-10.85
80	81	101.98	0.00	4.77	28.10	0	19.05	2	-6.35	2	-5.20	2.35	-8.85
81	81	101.98	0.00	4.77	28.10	0	19.05	2	-6.35	2	-5.20	2.35	-8.85
81	82	103.55	0.00	6.26	19.42	0	13.17	2	-4.39	2	-3.59	2.35	-6.12
82	82	103.55	-0.05	6.26	19.42	0	13.15	2	-4.40	2	-3.61	2.35	-6.13
82	83	105.13	-0.06	7.75	8.39	0	5.66	2	-1.91	2	-1.57	2.35	-2.66
83	83	105.13	-0.06	7.75	8.39	0	5.52	2	-2.72	2	-2.25	2.35	-3.45
83	84	106.70	-0.07	9.24	-4.99	0	-3.33	2	1.58	2	1.31	2.35	2.02
84	84	106.70	0.00	9.24	-4.99	0	-3.30	2	1.61	2	1.33	2.35	2.04
84	85	108.28	0.00	10.73	-20.71	0	-13.69	2	6.67	2	5.51	2.35	8.47
85	85	108.28	0.00	10.73	-20.71	0	-13.69	2	6.67	2	5.51	2.35	8.47
85	86	109.85	0.00	12.22	-38.78	0	-25.63	2	12.49	2	10.32	2.35	15.86
86	86	109.85	0.00	12.22	-38.78	0	-25.63	2	12.49	2	10.32	2.35	15.86
86	87	111.43	0.00	13.71	-59.20	0	-39.13	2	19.06	2	15.75	2.35	24.21
87	87	111.43	0.00	13.71	-59.20	0	-39.13	2	19.06	2	15.75	2.35	24.21
87	88	112.00	0.00	14.25	-67.24	0	-44.45	2	21.65	2	17.89	2.35	27.50
88	88	112.00	0.00	14.25	-67.24	0	-44.45	2	21.65	2	17.89	2.35	27.50
88	89	113.00	0.00	15.20	-81.97	0	-54.18	2	26.39	2	21.80	2.35	33.53
89	1089	113.00	0.00	-15.20	-81.97	0	-54.18	2	26.39	2	21.80	2.35	33.53
89	90	114.00	0.00	-14.26	-67.24	0	-44.45	2	21.65	2	17.89	2.35	27.50
90	90	114.00	0.00	-14.26	-67.24	0	-44.45	2	21.65	2	17.89	2.35	27.50
90	91	114.58	0.00	-13.71	-59.20	0	-39.13	2	19.06	2	15.75	2.35	24.21
91	91	114.58	0.00	-13.71	-59.20	0	-39.13	2	19.06	2	15.75	2.35	24.21
91	92	116.15	0.00	-12.22	-38.77	0	-25.63	2	12.48	2	10.31	2.35	15.86
92	92	116.15	0.00	-12.22	-38.77	0	-25.63	2	12.48	2	10.31	2.35	15.86
92	93	117.73	0.00	-10.73	-20.70	0	-13.68	2	6.67	2	5.51	2.35	8.47
93	93	117.73	0.00	-10.73	-20.70	0	-13.68	2	6.67	2	5.51	2.35	8.47
93	94	119.30	0.00	-9.24	-4.97	0	-3.29	2	1.60	2	1.32	2.35	2.03
94	94	119.30	-0.07	-9.24	-4.97	0	-3.31	2	1.58	2	1.30	2.35	2.01
94	95	120.88	-0.06	-7.75	8.41	0	5.54	2	-2.73	2	-2.25	2.35	-3.46
95	95	120.88	-0.06	-7.75	8.41	0	5.68	2	-1.92	2	-1.57	2.35	-2.66
95	96	122.45	-0.05	-6.26	19.45	0	13.17	2	-4.41	2	-3.61	2.35	-6.14
96	96	122.45	0.00	-6.26	19.45	0	13.19	2	-4.40	2	-3.60	2.35	-6.13
96	97	124.03	0.00	-4.77	28.14	0	19.08	2	-6.36	2	-5.21	2.35	-8.86
97	97	124.03	0.00	-4.77	28.14	0	19.08	2	-6.36	2	-5.21	2.35	-8.86
97	98	125.60	0.00	-3.28	34.48	0	23.38	2	-7.79	2	-6.38	2.35	-10.86
98	98	125.60	0.00	-3.28	34.48	0	23.38	2	-7.79	2	-6.38	2.35	-10.86
98	99	127.18	0.00	-1.79	38.48	0	26.09	2	-8.70	2	-7.12	2.35	-12.12
99	99	127.18	0.00	-1.79	38.48	0	26.09	2	-8.70	2	-7.12	2.35	-12.12
100	100	128.75	0.00	-0.30	40.13	0	27.21	2	-9.07	2	-7.42	2.35	-12.64
100	101	130.33	0.00	-0.30	40.13	0	27.21	2	-9.07	2	-7.42	2.35	-12.64
101	101	130.33	0.00	1.19	39.43	0	26.73	2	-8.91	2	-7.29	2.35	-12.42
101	102	131.90	0.00	1.19	39.43	0	26.73	2	-8.91	2	-7.29	2.35	-12.42
102	102	131.90	0.00	2.68	36.39	0	24.67	2	-8.22	2	-6.73	2.35	-11.46
102	103	133.48	0.00	2.68	36.39	0	24.67	2	-8.22	2	-6.73	2.35	-11.46
103	103	133.48	0.00	4.17	31.00	0	21.02	2	-7.01	2	-5.74	2.35	-9.76
103	104	135.05	0.00	4.17	31.00	0	21.02	2	-7.01	2	-5.74	2.35	-9.76
104	104	135.05	0.00	5.66	23.26	0	15.77	2	-5.26	2	-4.30	2.35	-7.33
104	105	136.63	-0.04	5.66	23.26	0	15.75	2	-5.27	2	-4.31	2.35	-7.34
105	105	136.63	-0.05	7.15	13.17	0	8.91	2	-2.99	2	-2.45	2.35	-4.16
105	106	138.20	-0.05	7.15	13.17	0	8.69	2	-4.26	2	-3.52	2.35	-5.40
106	106	138.20	-0.07	8.64	0.74	0	0.46	2	-0.26	2	-0.22	2.35	-0.32
106	107	139.78	0.00	8.64	0.74	0	0.49	2	-0.24	2	-0.20	2.35	-0.30
107	107	139.78	0.00	10.13	-14.03	0	-9.27	2	4.52	2	3.73	2.35	5.74
107	108	141.35	0.00	10.13	-14.03	0	-9.27	2	4.52	2	3.73	2.35	5.74
108	108	141.35	0.00	11.62	-31.16	0	-20.60	2	10.03	2	8.29	2.35	12.74
108	109	142.93	0.00	11.62	-31.16	0	-20.60	2	10.03	2	8.29	2.35	12.74
109	109	142.93	0.00	13.11	-50.63	0	-33.47	2	16.30	2	13.47	2.35	20.71
109	110	143.50	0.00	13.11	-50.63	0	-33.47	2	16.30	2	13.47	2.35	20.71
110	110	143.50	0.00	13.65	-58.32	0	-38.55	2	18.78	2	15.51	2.35	23.85
110	111	144.50	0.00	13.65	-58.32	0	-38.55	2	18.78	2	15.51	2.35	23.85
111	1111	144.50	0.00	14.60	-72.45	0	-47.89	2	23.33	2	19.27	2.35	29.63
111	112	145.50	0.00	-14.20	-72.45	0	-47.89	2	23.33	2	19.27	2.35	29.63
112	112	145.50	0.00	-13.25	-58.72	0	-38.81	2	18.91	2	15.62	2.35	24.02
112	113	145.68	0.00	-13.25	-58.72	0	-38.81	2	18.91	2	15.62	2.35	24.02
113	113	145.68	0.00	-13.09	-56.42	0	-37.29	2	18.17	2	15.01	2.35	23.08
113	114	146.85	0.00	-13.09	-56.42	0	-37.29	2	18.17	2	15.01	2.35	23.08
114	114	146.85	0.00	-11.98	-41.69	0	-27.56	2	13.42	2	11.09	2.35	17.05
114	115	148.03	0.00	-10.86	-28.27	0	-18.69	2	9.10	2	7.52	2.35	11.56

CÁLCULO TENSIONAL

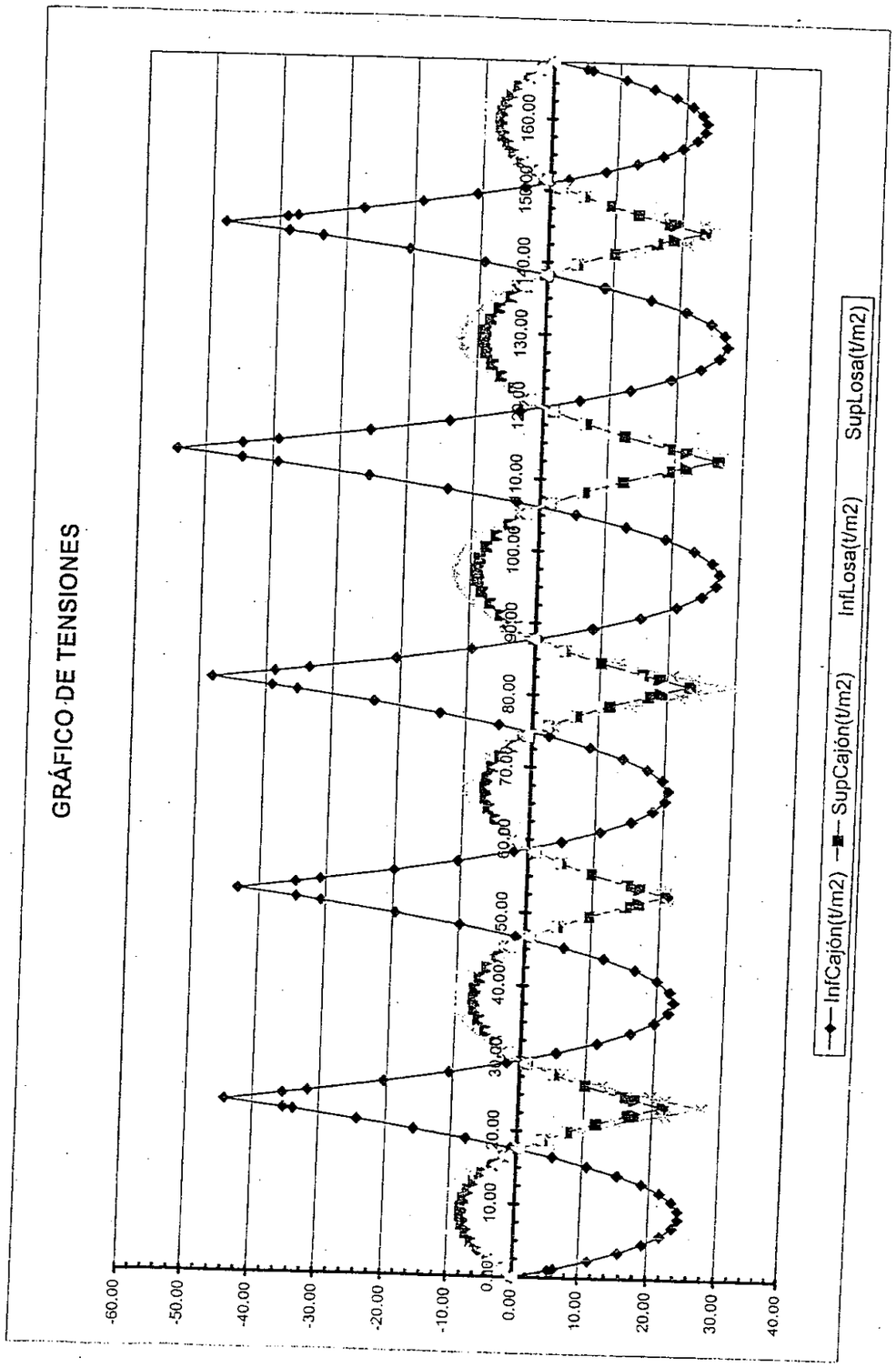
Hipótesis de cálculo:
HVOL.Tinf
...igonadovoladizos). Tensiones a tiempo Tinf
H. tpVOL
Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	-10.86	-28.27	0	-18.69	2	9.10	2	7.52	2.35	11.56
115	116	149.20	0.00	-9.75	-16.16	0	-10.68	2	5.20	2	4.30	2.35	6.61
116	116	149.20	-0.10	-9.75	-16.16	0	-10.72	2	5.17	2	4.27	2.35	6.58
116	117	150.38	-0.09	-8.64	-5.36	0	-3.58	2	1.69	2	1.40	2.35	2.16
117	117	150.38	-0.09	-8.64	-5.36	0	-3.67	2	1.18	2	0.97	2.35	1.67
117	118	151.55	-0.08	-7.53	4.14	0	2.78	2	-0.95	2	-0.79	2.35	-1.32
118	118	151.55	0.00	-7.53	4.14	0	2.81	2	-0.94	2	-0.77	2.35	-1.30
118	119	152.73	0.00	-6.42	12.34	0	8.37	2	-2.79	2	-2.28	2.35	-3.89
119	119	152.73	0.00	-6.42	12.34	0	8.37	2	-2.79	2	-2.28	2.35	-3.89
119	120	153.90	0.00	-5.31	19.22	0	13.03	2	-4.34	2	-3.56	2.35	-6.05
120	120	153.90	0.00	-5.31	19.22	0	13.03	2	-4.34	2	-3.56	2.35	-6.05
120	121	155.08	0.00	-4.19	24.81	0	16.82	2	-5.61	2	-4.59	2.35	-7.82
121	121	155.08	0.00	-4.19	24.81	0	16.82	2	-5.61	2	-4.59	2.35	-7.82
121	122	156.25	0.00	-3.08	29.08	0	19.72	2	-6.57	2	-5.38	2.35	-9.16
122	122	156.25	0.00	-3.08	29.08	0	19.72	2	-6.57	2	-5.38	2.35	-9.16
122	123	157.43	0.00	-1.97	32.05	0	21.73	2	-7.24	2	-5.93	2.35	-10.10
123	123	157.43	0.00	-1.97	32.05	0	21.73	2	-7.24	2	-5.93	2.35	-10.10
123	124	158.60	0.00	-0.86	33.71	0	22.86	2	-7.62	2	-6.24	2.35	-10.62
24	124	158.60	0.00	-0.86	33.71	0	22.86	2	-7.62	2	-6.24	2.35	-10.62
24	125	159.78	0.00	0.25	34.07	0	23.10	2	-7.70	2	-6.30	2.35	-10.73
125	125	159.78	0.00	0.25	34.07	0	23.10	2	-7.70	2	-6.30	2.35	-10.73
125	126	160.95	0.00	1.36	33.12	0	22.46	2	-7.49	2	-6.13	2.35	-10.43
126	126	160.95	0.00	1.36	33.12	0	22.46	2	-7.49	2	-6.13	2.35	-10.43
126	127	162.13	0.00	2.47	30.87	0	20.93	2	-6.98	2	-5.71	2.35	-9.72
127	127	162.13	0.00	2.47	30.87	0	20.93	2	-6.98	2	-5.71	2.35	-9.72
127	128	163.30	0.00	3.59	27.31	0	18.52	2	-6.17	2	-5.05	2.35	-8.60
128	128	163.30	0.00	3.59	27.31	0	18.52	2	-6.17	2	-5.05	2.35	-8.60
128	129	164.48	0.00	4.70	22.44	0	15.21	2	-5.07	2	-4.15	2.35	-7.07
129	129	164.48	0.00	4.70	22.44	0	15.21	2	-5.07	2	-4.15	2.35	-7.07
129	130	165.65	0.00	5.81	16.26	0	11.02	2	-3.67	2	-3.01	2.35	-5.12
130	130	165.65	0.00	5.81	16.26	0	11.02	2	-3.67	2	-3.01	2.35	-5.12
130	131	166.83	0.00	6.92	8.79	0	5.96	2	-1.99	2	-1.63	2.35	-2.77
131	131	166.83	0.00	6.92	8.79	0	5.96	2	-1.99	2	-1.63	2.35	-2.77
131	132	167.00	0.00	7.09	7.56	0	5.13	2	-1.71	2	-1.40	2.35	-2.38
132	132	167.00	0.00	7.09	7.56	0	5.13	2	-1.71	2	-1.40	2.35	-2.38
132	133	168.00	0.00	8.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

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HVOL.Tinf

GRÁFICO DE TENSIONES



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CÁLCULO TENSIONAL

Hipótesis de cálculo:
CMBAL.Tinf
...aMuertaBalasto). Tensiones a tiempo Tinf
...MBAL
Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-40.10	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-35.73	37.91	0	25.67	2	-8.45	2	-7.35	2.35	-11.83
2	2	1.00	0.00	-35.73	37.91	0	25.67	2	-8.45	2	-7.35	2.35	-11.83
2	3	1.18	0.00	-34.96	44.10	0	29.86	2	-9.83	2	-8.56	2.35	-13.76
3	3	1.18	0.00	-34.96	44.10	0	29.86	2	-9.83	2	-8.56	2.35	-13.76
3	4	2.35	0.00	-29.82	82.16	0	55.62	2	-18.32	2	-15.94	2.35	-25.63
4	4	2.35	0.00	-29.82	82.16	0	55.62	2	-18.32	2	-15.94	2.35	-25.63
4	5	3.53	0.00	-24.69	114.19	0	77.31	2	-25.46	2	-22.15	2.35	-35.63
5	5	3.53	0.00	-24.69	114.19	0	77.31	2	-25.46	2	-22.15	2.35	-35.63
5	6	4.70	0.00	-19.55	140.18	0	94.90	2	-31.26	2	-27.19	2.35	-43.74
6	6	4.70	0.00	-19.55	140.18	0	94.90	2	-31.26	2	-27.19	2.35	-43.74
6	7	5.88	0.00	-14.41	160.13	0	108.41	2	-35.71	2	-31.07	2.35	-49.96
7	7	5.88	0.00	-14.41	160.13	0	108.41	2	-35.71	2	-31.07	2.35	-49.96
7	8	7.05	0.00	-9.28	174.05	0	117.83	2	-38.81	2	-33.77	2.35	-54.30
8	8	7.05	0.00	-9.28	174.05	0	117.83	2	-38.81	2	-33.77	2.35	-54.30
8	9	8.23	0.00	-4.14	181.93	0	123.17	2	-40.57	2	-35.29	2.35	-56.76
9	9	8.23	0.00	-4.14	181.93	0	123.17	2	-40.57	2	-35.29	2.35	-56.76
9	10	9.40	0.00	1.00	183.78	0	124.42	2	-40.98	2	-35.65	2.35	-57.34
10	10	9.40	0.00	1.00	183.78	0	124.42	2	-40.98	2	-35.65	2.35	-57.34
10	11	10.58	0.00	6.13	179.59	0	121.58	2	-40.05	2	-34.84	2.35	-56.03
11	11	10.58	0.00	6.13	179.59	0	121.58	2	-40.05	2	-34.84	2.35	-56.03
11	12	11.75	0.00	11.27	169.36	0	114.66	2	-37.77	2	-32.86	2.35	-52.84
12	12	11.75	0.00	11.27	169.36	0	114.66	2	-37.77	2	-32.86	2.35	-52.84
12	13	12.93	0.00	16.41	153.10	0	103.65	2	-34.14	2	-29.70	2.35	-47.77
13	13	12.93	0.00	16.41	153.10	0	103.65	2	-34.14	2	-29.70	2.35	-47.77
13	14	14.10	0.00	21.55	130.80	0	88.55	2	-29.17	2	-25.38	2.35	-40.81
14	14	14.10	0.00	21.55	130.80	0	88.55	2	-29.17	2	-25.38	2.35	-40.81
14	15	15.28	0.00	26.68	102.46	0	69.37	2	-22.85	2	-19.88	2.35	-31.97
15	15	15.28	0.00	26.68	102.46	0	69.37	2	-22.85	2	-19.88	2.35	-31.97
15	16	16.45	0.00	31.82	68.09	0	46.10	2	-15.18	2	-13.21	2.35	-21.24
16	16	16.45	-0.38	31.82	68.09	0	45.97	2	-15.31	2	-13.32	2.35	-21.35
16	17	17.63	-0.44	36.96	27.69	0	18.60	2	-6.32	2	-5.50	2.35	-8.76
17	17	17.63	-0.44	36.96	27.69	0	18.14	2	-9.02	2	-7.84	2.35	-11.41
17	18	18.80	-0.50	42.09	-18.76	0	-12.58	2	5.82	2	5.06	2.35	7.48
18	18	18.80	0.00	42.10	-18.76	0	-12.40	2	6.00	2	5.22	2.35	7.64
18	19	19.98	0.00	47.23	-71.24	0	-47.09	2	22.80	2	19.80	2.35	28.99
19	19	19.98	0.00	47.23	-71.24	0	-47.09	2	22.80	2	19.80	2.35	28.99
19	20	21.15	0.00	52.37	-129.75	0	-85.76	2	41.52	2	36.07	2.35	52.81
20	20	21.15	0.00	52.37	-129.75	0	-85.76	2	41.52	2	36.07	2.35	52.81
20	21	22.33	0.00	57.51	-194.31	0	-128.44	2	62.18	2	54.02	2.35	79.08
21	21	22.33	0.00	57.51	-194.31	0	-128.44	2	62.18	2	54.02	2.35	79.08
21	22	22.50	0.00	58.27	-204.44	0	-135.13	2	65.42	2	56.83	2.35	83.21
22	22	22.50	0.00	58.27	-204.44	0	-135.13	2	65.42	2	56.83	2.35	83.21
22	23	23.50	0.00	62.64	-264.89	0	-175.09	2	84.76	2	73.64	2.35	107.81
3	1023	23.50	0.00	-63.36	-264.89	0	-175.09	2	84.76	2	73.64	2.35	107.81
_3	24	24.50	0.00	-58.99	-203.72	0	-134.66	2	65.19	2	56.63	2.35	82.91
24	24	24.50	0.00	-58.99	-203.72	0	-134.66	2	65.19	2	56.63	2.35	82.91
24	25	24.95	0.00	-57.03	-177.61	0	-117.40	2	56.84	2	49.38	2.35	72.29
25	25	24.95	0.00	-57.03	-177.61	0	-117.40	2	56.84	2	49.38	2.35	72.29
25	26	26.40	0.00	-50.69	-99.52	0	-65.78	2	31.85	2	27.67	2.35	40.50
26	26	26.40	0.00	-50.69	-99.52	0	-65.78	2	31.85	2	27.67	2.35	40.50
26	27	27.85	0.00	-44.35	-30.62	0	-20.24	2	9.80	2	8.51	2.35	12.46
27	27	27.85	0.00	-44.35	-30.62	0	-20.24	2	9.80	2	8.51	2.35	12.46
27	28	29.30	0.00	-38.01	29.08	0	19.22	2	-9.31	2	-8.08	2.35	-11.84
28	28	29.30	-0.36	-38.01	29.08	0	19.09	2	-9.44	2	-8.20	2.35	-11.95
28	29	30.75	-0.30	-31.67	79.60	0	52.51	2	-25.58	2	-22.22	2.35	-32.49
29	29	30.75	-0.30	-31.67	79.60	0	53.79	2	-17.85	2	-15.53	2.35	-24.92
29	30	32.20	-0.24	-25.33	120.92	0	81.78	2	-27.04	2	-23.53	2.35	-37.80
30	30	32.20	0.00	-25.33	120.92	0	81.86	2	-26.97	2	-23.46	2.35	-37.73
30	31	33.65	0.00	-18.99	153.05	0	103.61	2	-34.13	2	-29.69	2.35	-47.75
31	31	33.65	0.00	-18.99	153.05	0	103.61	2	-34.13	2	-29.69	2.35	-47.75
31	32	35.10	0.00	-12.65	175.99	0	119.15	2	-39.25	2	-34.14	2.35	-54.91
32	32	35.10	0.00	-12.65	175.99	0	119.15	2	-39.25	2	-34.14	2.35	-54.91
32	33	36.55	0.00	-6.31	189.73	0	128.45	2	-42.31	2	-36.81	2.35	-59.20
33	33	36.55	0.00	-6.31	189.73	0	128.45	2	-42.31	2	-36.81	2.35	-59.20
33	34	38.00	0.00	0.03	194.28	0	131.53	2	-43.32	2	-37.69	2.35	-60.62
34	34	38.00	0.00	0.03	194.28	0	131.53	2	-43.32	2	-37.69	2.35	-60.62
34	35	39.45	0.00	6.37	189.64	0	128.39	2	-42.29	2	-36.79	2.35	-59.17
--	35	39.45	0.00	6.37	189.64	0	128.39	2	-42.29	2	-36.79	2.35	-59.17
--	36	40.90	0.00	12.71	175.81	0	119.02	2	-39.21	2	-34.11	2.35	-54.85
36	36	40.90	0.00	12.71	175.81	0	119.02	2	-39.21	2	-34.11	2.35	-54.85
36	37	42.35	0.00	19.05	152.79	0	103.44	2	-34.07	2	-29.64	2.35	-47.67
37	37	42.35	0.00	19.05	152.79	0	103.44	2	-34.07	2	-29.64	2.35	-47.67
37	38	43.80	0.00	25.39	120.57	0	81.63	2	-26.89	2	-23.39	2.35	-37.62
38	38	43.80	-0.24	25.39	120.57	0	81.55	2	-26.97	2	-23.46	2.35	-37.69
38	39	45.25	-0.30	31.73	79.17	0	53.50	2	-17.75	2	-15.44	2.35	-24.79

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Programa DINTEL IDEAM S.A.
CMBAL.Tinf
05/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CMBAL.Tinf
CargaMuertaBalasto). Tensiones a tiempo Tinf
...CMBAL
...inf exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-0.30	31.73	79.17	0	52.22	2	-25.44	2	-22.10	2.35	-32.32
39	40	46.70	-0.37	38.07	28.57	0	18.75	2	-9.28	2	-8.06	2.35	-11.75
40	40	46.70	0.00	38.07	28.57	0	18.88	2	-9.14	2	-7.94	2.35	-11.63
40	41	48.15	0.00	44.41	-31.23	0	-20.64	2	9.99	2	8.68	2.35	12.71
41	41	48.15	0.00	44.41	-31.23	0	-20.64	2	9.99	2	8.68	2.35	12.71
41	42	49.60	0.00	50.75	-100.21	0	-66.24	2	32.07	2	27.86	2.35	40.79
42	42	49.60	0.00	50.75	-100.21	0	-66.24	2	32.07	2	27.86	2.35	40.79
42	43	51.05	0.00	57.09	-178.39	0	-117.92	2	57.08	2	49.59	2.35	72.60
43	43	51.05	0.00	57.09	-178.39	0	-117.92	2	57.08	2	49.59	2.35	72.60
43	44	51.50	0.00	59.05	-204.52	0	-135.19	2	65.45	2	56.86	2.35	83.24
44	44	51.50	0.00	59.05	-204.52	0	-135.19	2	65.45	2	56.86	2.35	83.24
44	45	52.50	0.00	63.42	-265.76	0	-175.67	2	85.04	2	73.88	2.35	108.16
45	1045	52.50	0.00	-62.64	-265.76	0	-175.67	2	85.04	2	73.88	2.35	108.16
45	46	53.50	0.00	-58.27	-205.31	0	-135.71	2	65.70	2	57.08	2.35	83.56
46	46	53.50	0.00	-58.27	-205.31	0	-135.71	2	65.70	2	57.08	2.35	83.56
46	47	53.95	0.00	-56.30	-179.53	0	-118.67	2	57.45	2	49.91	2.35	73.07
47	47	53.95	0.00	-56.30	-179.53	0	-118.67	2	57.45	2	49.91	2.35	73.07
47	48	55.40	0.00	-49.96	-102.49	0	-67.75	2	32.80	2	28.49	2.35	41.71
48	48	55.40	0.00	-49.96	-102.49	0	-67.75	2	32.80	2	28.49	2.35	41.71
48	49	56.85	0.00	-43.62	-34.65	0	-22.90	2	11.09	2	9.63	2.35	14.10
49	49	56.85	0.00	-43.62	-34.65	0	-22.90	2	11.09	2	9.63	2.35	14.10
49	50	58.30	0.00	-37.28	24.01	0	15.87	2	-7.68	2	-6.67	2.35	-9.77
50	50	58.30	-0.36	-37.28	24.01	0	15.74	2	-7.82	2	-6.79	2.35	-9.89
50	51	59.75	-0.30	-30.94	73.47	0	48.45	2	-23.62	2	-20.52	2.35	-30.00
51	51	59.75	-0.30	-30.94	73.47	0	49.64	2	-16.48	2	-14.34	2.35	-23.01
51	52	61.20	-0.24	-24.60	113.74	0	76.92	2	-25.44	2	-22.13	2.35	-35.56
52	52	61.20	0.00	-24.60	113.74	0	77.00	2	-25.36	2	-22.07	2.35	-35.49
52	53	62.65	0.00	-18.26	144.81	0	98.04	2	-32.29	2	-28.09	2.35	-45.18
53	53	62.65	0.00	-18.26	144.81	0	98.04	2	-32.29	2	-28.09	2.35	-45.18
53	54	64.10	0.00	-11.92	166.70	0	112.86	2	-37.17	2	-32.34	2.35	-52.01
54	54	64.10	0.00	-11.92	166.70	0	112.86	2	-37.17	2	-32.34	2.35	-52.01
54	55	65.55	0.00	-5.58	179.39	0	121.45	2	-40.00	2	-34.80	2.35	-55.97
55	55	65.55	0.00	-5.58	179.39	0	121.45	2	-40.00	2	-34.80	2.35	-55.97
55	56	67.00	0.00	0.76	182.89	0	123.82	2	-40.78	2	-35.48	2.35	-57.06
56	56	67.00	0.00	0.76	182.89	0	123.82	2	-40.78	2	-35.48	2.35	-57.06
56	57	68.45	0.00	7.10	177.19	0	119.96	2	-39.51	2	-34.37	2.35	-55.28
57	57	68.45	0.00	7.10	177.19	0	119.96	2	-39.51	2	-34.37	2.35	-55.28
57	58	69.90	0.00	13.43	162.31	0	109.88	2	-36.20	2	-31.49	2.35	-50.64
58	58	69.90	0.00	13.43	162.31	0	109.88	2	-36.20	2	-31.49	2.35	-50.64
58	59	71.35	0.00	19.77	138.23	0	93.58	2	-30.83	2	-26.82	2.35	-43.13
59	59	71.35	0.00	19.77	138.23	0	93.58	2	-30.83	2	-26.82	2.35	-43.13
59	60	72.80	0.00	26.11	104.96	0	71.06	2	-23.41	2	-20.36	2.35	-32.75
60	60	72.80	-0.25	26.11	104.96	0	70.98	2	-23.49	2	-20.43	2.35	-32.82
60	61	74.25	-0.31	32.45	62.50	0	42.21	2	-14.04	2	-12.21	2.35	-19.59
61	61	74.25	-0.31	32.45	62.50	0	41.20	2	-20.11	2	-17.47	2.35	-25.54
61	62	75.70	-0.37	38.79	10.85	0	7.04	2	-3.61	2	-3.13	2.35	-4.53
62	62	75.70	0.00	38.79	10.85	0	7.17	2	-3.47	2	-3.02	2.35	-4.42
62	63	77.15	0.00	45.13	-50.00	0	-33.05	2	16.00	2	13.90	2.35	20.35
63	63	77.15	0.00	45.13	-50.00	0	-33.05	2	16.00	2	13.90	2.35	20.35
63	64	78.60	0.00	51.47	-120.03	0	-79.34	2	38.41	2	33.37	2.35	48.85
64	64	78.60	0.00	51.47	-120.03	0	-79.34	2	38.41	2	33.37	2.35	48.85
64	65	80.05	0.00	57.81	-199.26	0	-131.71	2	63.76	2	55.39	2.35	81.10
65	65	80.05	0.00	57.81	-199.26	0	-131.71	2	63.76	2	55.39	2.35	81.10
65	66	80.50	0.00	59.78	-225.72	0	-149.20	2	72.23	2	62.75	2.35	91.87
66	66	80.50	0.00	59.78	-225.72	0	-149.20	2	72.23	2	62.75	2.35	91.87
66	67	81.50	0.00	64.15	-287.69	0	-190.16	2	92.06	2	79.98	2.35	117.09
67	1067	81.50	0.00	-67.90	-287.69	0	-190.16	2	92.06	2	79.98	2.35	117.09
67	68	82.50	0.00	-63.53	-221.97	0	-146.72	2	71.03	2	61.71	2.35	90.34
68	68	82.50	0.00	-63.53	-221.97	0	-146.72	2	71.03	2	61.71	2.35	90.34
68	69	83.08	0.00	-61.02	-186.16	0	-123.05	2	59.57	2	51.75	2.35	75.77
69	69	83.08	0.00	-61.02	-186.16	0	-123.05	2	59.57	2	51.75	2.35	75.77
69	70	84.65	0.00	-54.13	-95.48	0	-63.11	2	30.55	2	26.54	2.35	38.86
70	70	84.65	0.00	-54.13	-95.48	0	-63.11	2	30.55	2	26.54	2.35	38.86
70	71	86.23	0.00	-47.25	-15.65	0	-10.34	2	5.01	2	4.35	2.35	6.37
71	71	86.23	0.00	-47.25	-15.65	0	-10.34	2	5.01	2	4.35	2.35	6.37
71	72	87.80	0.00	-40.36	53.34	0	35.26	2	-17.07	2	-14.83	2.35	-21.71
72	72	87.80	-0.36	-40.36	53.34	0	35.13	2	-17.20	2	-14.94	2.35	-21.82
72	73	89.38	-0.30	-33.47	111.48	0	73.58	2	-35.78	2	-31.09	2.35	-45.47
73	73	89.38	-0.30	-33.47	111.48	0	75.37	2	-24.96	2	-21.71	2.35	-34.87
73	74	90.95	-0.23	-26.59	158.78	0	107.42	2	-35.48	2	-30.87	2.35	-49.60
74	74	90.95	0.00	-26.59	158.78	0	107.49	2	-35.41	2	-30.80	2.35	-49.54
74	75	92.53	0.00	-19.70	195.23	0	132.17	2	-43.54	2	-37.87	2.35	-60.91
75	75	92.53	0.00	-19.70	195.23	0	132.17	2	-43.54	2	-37.87	2.35	-60.91
75	76	94.10	0.00	-12.82	220.84	0	149.51	2	-49.25	2	-42.84	2.35	-68.90
76	76	94.10	0.00	-12.82	220.84	0	149.51	2	-49.25	2	-42.84	2.35	-68.90
76	77	95.68	0.00	-5.93	235.60	0	159.50	2	-52.54	2	-45.71	2.35	-73.51

CÁLCULO TENSIONAL

Hipótesis de cálculo:
C**BAL.Tinf
:MuertaBalasto). Tensiones a tiempo Tinf
1. .. 4BAL
Cond exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-5.93	235.60	0	159.50	2	-52.54	2	-45.71	2.35	-73.51
77	78	97.25	0.00	0.96	239.51	0	162.15	2	-53.41	2	-46.46	2.35	-74.73
78	78	97.25	0.00	0.96	239.51	0	162.15	2	-53.41	2	-46.46	2.35	-74.73
78	79	98.83	0.00	7.84	232.59	0	157.46	2	-51.87	2	-45.12	2.35	-72.57
79	79	98.83	0.00	7.84	232.59	0	157.46	2	-51.87	2	-45.12	2.35	-72.57
79	80	100.40	0.00	14.73	214.81	0	145.43	2	-47.90	2	-41.67	2.35	-67.02
80	80	100.40	0.00	14.73	214.81	0	145.43	2	-47.90	2	-41.67	2.35	-67.02
80	81	101.98	0.00	21.61	186.19	0	126.05	2	-41.52	2	-36.12	2.35	-58.09
81	81	101.98	0.00	21.61	186.19	0	126.05	2	-41.52	2	-36.12	2.35	-58.09
81	82	103.55	0.00	28.50	146.73	0	99.34	2	-32.72	2	-28.47	2.35	-45.78
82	82	103.55	-0.25	28.50	146.73	0	99.25	2	-32.80	2	-28.54	2.35	-45.85
82	83	105.13	-0.31	35.38	96.42	0	65.17	2	-21.60	2	-18.79	2.35	-30.17
83	83	105.13	-0.31	35.38	96.42	0	63.62	2	-30.97	2	-26.90	2.35	-39.34
83	84	106.70	-0.37	42.27	35.26	0	23.17	2	-11.42	2	-9.92	2.35	-14.47
84	84	106.70	0.00	42.27	35.26	0	23.31	2	-11.28	2	-9.80	2.35	-14.35
84	85	108.28	0.00	49.16	-36.74	0	-24.29	2	11.76	2	10.21	2.35	14.95
85	85	108.28	0.00	49.16	-36.74	0	-24.29	2	11.76	2	10.21	2.35	14.95
85	86	109.85	0.00	56.04	-119.59	0	-79.05	2	38.27	2	33.25	2.35	48.67
86	86	109.85	0.00	56.04	-119.59	0	-79.05	2	38.27	2	33.25	2.35	48.67
6	87	111.43	0.00	62.93	-213.28	0	-140.98	2	68.25	2	59.29	2.35	86.80
87	87	111.43	0.00	62.93	-213.28	0	-140.98	2	68.25	2	59.29	2.35	86.80
87	88	112.00	0.00	65.44	-250.19	0	-165.38	2	80.06	2	69.55	2.35	101.83
88	88	112.00	0.00	65.44	-250.19	0	-165.38	2	80.06	2	69.55	2.35	101.83
88	89	113.00	0.00	69.82	-317.82	0	-210.08	2	101.70	2	88.35	2.35	129.35
89	1089	113.00	0.00	-69.95	-317.82	0	-210.08	2	101.70	2	88.35	2.35	129.35
89	90	114.00	0.00	-65.57	-250.05	0	-165.28	2	80.02	2	69.51	2.35	101.77
90	90	114.00	0.00	-65.57	-250.05	0	-165.28	2	80.02	2	69.51	2.35	101.77
90	91	114.58	0.00	-63.06	-213.08	0	-140.85	2	68.19	2	59.24	2.35	86.72
91	91	114.58	0.00	-63.06	-213.08	0	-140.85	2	68.19	2	59.24	2.35	86.72
91	92	116.15	0.00	-56.17	-119.18	0	-78.78	2	38.14	2	33.13	2.35	48.51
92	92	116.15	0.00	-56.17	-119.18	0	-78.78	2	38.14	2	33.13	2.35	48.51
92	93	117.73	0.00	-49.29	-36.13	0	-23.88	2	11.56	2	10.04	2.35	14.70
93	93	117.73	0.00	-49.29	-36.13	0	-23.88	2	11.56	2	10.04	2.35	14.70
93	94	119.30	0.00	-42.40	36.07	0	23.84	2	-11.54	2	-10.03	2.35	-14.68
94	94	119.30	-0.37	-42.40	36.07	0	23.71	2	-11.68	2	-10.15	2.35	-14.80
94	95	120.88	-0.31	-35.51	97.43	0	64.29	2	-31.29	2	-27.18	2.35	-39.75
95	95	120.88	-0.31	-35.51	97.43	0	65.86	2	-21.83	2	-18.99	2.35	-30.49
95	96	122.45	-0.25	-28.63	147.95	0	100.08	2	-33.08	2	-28.77	2.35	-46.23
96	96	122.45	0.00	-28.63	147.95	0	100.16	2	-32.99	2	-28.70	2.35	-46.16
96	97	124.03	0.00	-21.74	187.62	0	127.02	2	-41.84	2	-36.40	2.35	-58.54
97	97	124.03	0.00	-21.74	187.62	0	127.02	2	-41.84	2	-36.40	2.35	-58.54
97	98	125.60	0.00	-14.86	216.44	0	146.53	2	-48.27	2	-41.99	2.35	-67.53
98	98	125.60	0.00	-14.86	216.44	0	146.53	2	-48.27	2	-41.99	2.35	-67.53
98	99	127.18	0.00	-7.97	234.42	0	158.70	2	-52.28	2	-45.48	2.35	-73.14
),	99	127.18	0.00	-7.97	234.42	0	158.70	2	-52.28	2	-45.48	2.35	-73.14
100	100	128.75	0.00	-1.09	241.55	0	163.53	2	-53.87	2	-46.86	2.35	-75.36
100	101	130.33	0.00	5.80	237.84	0	161.02	2	-53.04	2	-46.14	2.35	-74.21
101	101	130.33	0.00	5.80	237.84	0	161.02	2	-53.04	2	-46.14	2.35	-74.21
101	102	131.90	0.00	12.69	223.28	0	151.16	2	-49.79	2	-43.32	2.35	-69.66
102	102	131.90	0.00	12.69	223.28	0	151.16	2	-49.79	2	-43.32	2.35	-69.66
102	103	133.48	0.00	19.57	197.88	0	133.96	2	-44.13	2	-38.39	2.35	-61.74
103	103	133.48	0.00	19.57	197.88	0	133.96	2	-44.13	2	-38.39	2.35	-61.74
103	104	135.05	0.00	26.46	161.63	0	109.42	2	-36.04	2	-31.36	2.35	-50.43
104	104	135.05	-0.23	26.46	161.63	0	109.35	2	-36.12	2	-31.42	2.35	-50.49
105	105	136.63	-0.29	33.34	114.53	0	77.44	2	-25.64	2	-22.30	2.35	-35.82
105	106	138.20	-0.36	40.23	56.59	0	75.60	2	-36.76	2	-31.93	2.35	-46.71
106	106	138.20	0.00	40.23	56.59	0	37.27	2	-18.24	2	-15.85	2.35	-23.15
106	107	139.78	0.00	47.12	-12.19	0	37.41	2	-18.11	2	-15.73	2.35	-23.03
107	107	139.78	0.00	47.12	-12.19	0	-8.06	2	3.90	2	3.39	2.35	4.96
107	108	141.35	0.00	54.00	-91.82	0	-8.06	2	3.90	2	3.39	2.35	4.96
108	108	141.35	0.00	54.00	-91.82	0	-60.69	2	29.38	2	25.53	2.35	37.37
108	109	142.93	0.00	60.89	-182.30	0	-60.69	2	29.38	2	25.53	2.35	37.37
109	109	142.93	0.00	60.89	-182.30	0	-120.50	2	58.34	2	50.68	2.35	74.20
109	110	143.50	0.00	63.40	-218.04	0	-120.50	2	58.34	2	50.68	2.35	74.20
110	110	143.50	0.00	63.40	-218.04	0	-144.12	2	69.77	2	60.62	2.35	88.74
110	111	144.50	0.00	67.77	-283.62	0	-144.12	2	69.77	2	60.62	2.35	88.74
11	1111	144.50	0.00	-63.44	-283.62	0	-187.47	2	90.76	2	78.85	2.35	115.43
:	112	145.50	0.00	-59.07	-222.36	0	-187.47	2	90.76	2	78.85	2.35	115.43
112	112	145.50	0.00	-59.07	-222.36	0	-146.98	2	71.16	2	61.82	2.35	90.50
112	113	145.68	0.00	-58.30	-212.10	0	-146.98	2	71.16	2	61.82	2.35	90.50
113	113	145.68	0.00	-58.30	-212.10	0	-140.20	2	67.87	2	58.96	2.35	86.32
113	114	146.85	0.00	-53.17	-146.61	0	-140.20	2	67.87	2	58.96	2.35	86.32
114	114	146.85	0.00	-53.17	-146.61	0	-96.91	2	46.92	2	40.76	2.35	59.67
114	115	148.03	0.00	-48.03	-87.15	0	-96.91	2	46.92	2	40.76	2.35	59.67
						0	-57.61	2	27.89	2	24.23	2.35	35.47

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Programa DINTEL IDEAM S.A.
CMBAL.Tinf
05/09/01

CÁLCULO TENSIONAL

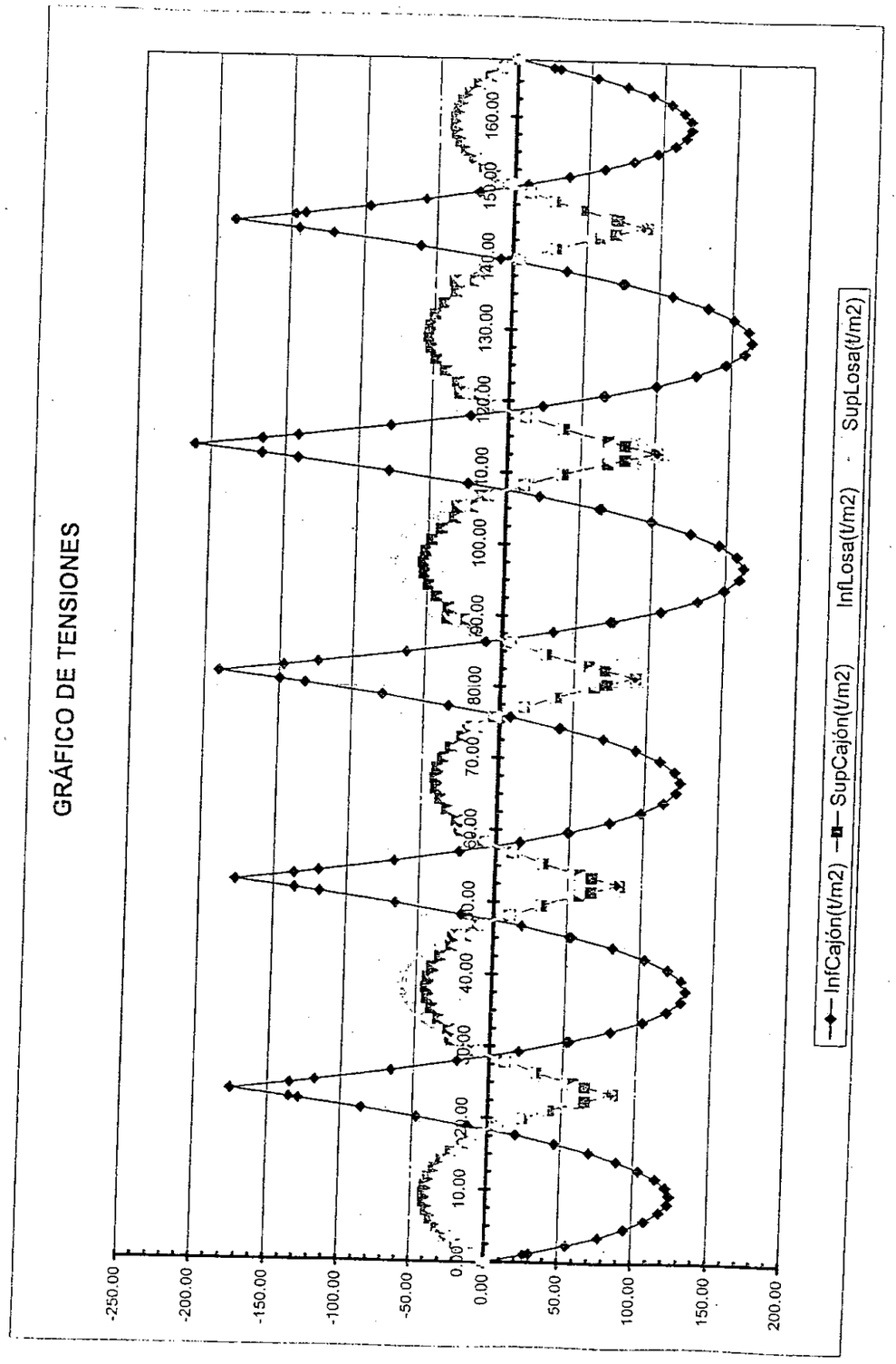
Hipótesis de cálculo:
:MBAL.Tinf
CargaMuertaBalasto). Tensiones a tiempo Tinf .
:. 1]CMBAL
ond. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	-48.03	-87.15	0	-57.61	2	27.89	2	24.23	2.35	35.47
115	116	149.20	0.00	-42.89	-33.74	0	-22.30	2	10.80	2	9.38	2.35	13.73
116	116	149.20	-0.51	-42.89	-33.74	0	-22.49	2	10.61	2	9.22	2.35	13.57
116	117	150.38	-0.45	-37.75	13.64	0	8.85	2	-4.53	2	-3.94	2.35	-5.70
117	117	150.38	-0.45	-37.75	13.64	0	9.09	2	-3.19	2	-2.77	2.35	-4.38
117	118	151.55	-0.39	-32.61	54.99	0	37.10	2	-12.39	2	-10.78	2.35	-17.27
118	118	151.55	0.00	-32.62	54.99	0	37.23	2	-12.26	2	-10.67	2.35	-17.16
118	119	152.73	0.00	-27.48	90.29	0	61.13	2	-20.13	2	-17.52	2.35	-28.17
119	119	152.73	0.00	-27.48	90.29	0	61.13	2	-20.13	2	-17.52	2.35	-28.17
119	120	153.90	0.00	-22.34	119.56	0	80.94	2	-26.66	2	-23.19	2.35	-37.30
120	120	153.90	0.00	-22.34	119.56	0	80.94	2	-26.66	2	-23.19	2.35	-37.30
120	121	155.08	0.00	-17.21	142.80	0	96.68	2	-31.84	2	-27.70	2.35	-44.55
121	121	155.08	0.00	-17.21	142.80	0	96.68	2	-31.84	2	-27.70	2.35	-44.55
121	122	156.25	0.00	-12.07	160.00	0	108.32	2	-35.68	2	-31.04	2.35	-49.92
122	122	156.25	0.00	-12.07	160.00	0	108.32	2	-35.68	2	-31.04	2.35	-49.92
122	123	157.43	0.00	-6.93	171.16	0	115.88	2	-38.17	2	-33.21	2.35	-53.40
123	123	157.43	0.00	-6.93	171.16	0	115.88	2	-38.17	2	-33.21	2.35	-53.40
123	124	158.60	0.00	-1.79	176.29	0	119.35	2	-39.31	2	-34.20	2.35	-55.00
124	124	158.60	0.00	-1.79	176.29	0	119.35	2	-39.31	2	-34.20	2.35	-55.00
124	125	159.78	0.00	3.34	175.38	0	118.73	2	-39.11	2	-34.02	2.35	-54.72
125	125	159.78	0.00	3.34	175.38	0	118.73	2	-39.11	2	-34.02	2.35	-54.72
125	126	160.95	0.00	8.48	168.43	0	114.03	2	-37.56	2	-32.68	2.35	-52.55
126	126	160.95	0.00	8.48	168.43	0	114.03	2	-37.56	2	-32.68	2.35	-52.55
126	127	162.13	0.00	13.62	155.45	0	105.24	2	-34.67	2	-30.16	2.35	-48.50
127	127	162.13	0.00	13.62	155.45	0	105.24	2	-34.67	2	-30.16	2.35	-48.50
127	128	163.30	0.00	18.75	136.43	0	92.36	2	-30.42	2	-26.47	2.35	-42.57
128	128	163.30	0.00	18.75	136.43	0	92.36	2	-30.42	2	-26.47	2.35	-42.57
128	129	164.48	0.00	23.89	111.38	0	75.40	2	-24.84	2	-21.61	2.35	-34.75
129	129	164.48	0.00	23.89	111.38	0	75.40	2	-24.84	2	-21.61	2.35	-34.75
129	130	165.65	0.00	29.03	80.29	0	54.36	2	-17.90	2	-15.58	2.35	-25.05
130	130	165.65	0.00	29.03	80.29	0	54.36	2	-17.90	2	-15.58	2.35	-25.05
130	131	166.83	0.00	34.17	43.16	0	29.22	2	-9.62	2	-8.37	2.35	-13.47
131	131	166.83	0.00	34.17	43.16	0	29.22	2	-9.62	2	-8.37	2.35	-13.47
131	132	167.00	0.00	34.93	37.11	0	25.12	2	-8.28	2	-7.20	2.35	-11.58
132	132	167.00	0.00	34.93	37.11	0	25.12	2	-8.28	2	-7.20	2.35	-11.58
132	133	168.00	0.00	39.30	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CMRESTO.Tinf
RestoCargaMuerta). Tensiones a tiempo Tinf
1, 1)CMRESTO
ref exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-27.86	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-24.82	26.34	0	17.83	2	-5.87	2	-5.11	2.35	-8.22
2	2	1.00	0.00	-24.82	26.34	0	17.83	2	-5.87	2	-5.11	2.35	-8.22
2	3	1.18	0.00	-24.29	30.64	0	20.74	2	-6.83	2	-5.94	2.35	-9.56
3	3	1.18	0.00	-24.29	30.64	0	20.74	2	-6.83	2	-5.94	2.35	-9.56
3	4	2.35	0.00	-20.72	57.08	0	38.64	2	-12.73	2	-11.07	2.35	-17.81
4	4	2.35	0.00	-20.72	57.08	0	38.64	2	-12.73	2	-11.07	2.35	-17.81
4	5	3.53	0.00	-17.15	79.33	0	53.71	2	-17.69	2	-15.39	2.35	-24.75
5	5	3.53	0.00	-17.15	79.33	0	53.71	2	-17.69	2	-15.39	2.35	-24.75
5	6	4.70	0.00	-13.58	97.39	0	65.93	2	-21.72	2	-18.89	2.35	-30.39
6	6	4.70	0.00	-13.58	97.39	0	65.93	2	-21.72	2	-18.89	2.35	-30.39
6	7	5.88	0.00	-10.01	111.25	0	75.32	2	-24.81	2	-21.58	2.35	-34.71
7	7	5.88	0.00	-10.01	111.25	0	75.32	2	-24.81	2	-21.58	2.35	-34.71
7	8	7.05	0.00	-6.44	120.92	0	81.86	2	-26.97	2	-23.46	2.35	-37.73
8	8	7.05	0.00	-6.44	120.92	0	81.86	2	-26.97	2	-23.46	2.35	-37.73
8	9	8.23	0.00	-2.88	126.40	0	85.57	2	-28.19	2	-24.52	2.35	-39.44
9	9	8.23	0.00	-2.88	126.40	0	85.57	2	-28.19	2	-24.52	2.35	-39.44
9	10	9.40	0.00	0.69	127.68	0	86.44	2	-28.47	2	-24.77	2.35	-39.84
10	10	9.40	0.00	0.69	127.68	0	86.44	2	-28.47	2	-24.77	2.35	-39.84
10	11	10.58	0.00	4.26	124.77	0	84.47	2	-27.82	2	-24.21	2.35	-38.93
11	11	10.58	0.00	4.26	124.77	0	84.47	2	-27.82	2	-24.21	2.35	-38.93
11	12	11.75	0.00	7.83	117.66	0	79.66	2	-26.24	2	-22.83	2.35	-36.71
12	12	11.75	0.00	7.83	117.66	0	79.66	2	-26.24	2	-22.83	2.35	-36.71
12	13	12.93	0.00	11.40	106.37	0	72.01	2	-23.72	2	-20.64	2.35	-33.19
13	13	12.93	0.00	11.40	106.37	0	72.01	2	-23.72	2	-20.64	2.35	-33.19
13	14	14.10	0.00	14.97	90.87	0	61.52	2	-20.26	2	-17.63	2.35	-28.35
14	14	14.10	0.00	14.97	90.87	0	61.52	2	-20.26	2	-17.63	2.35	-28.35
14	15	15.28	0.00	18.54	71.19	0	48.20	2	-15.88	2	-13.81	2.35	-22.21
15	15	15.28	0.00	18.54	71.19	0	48.20	2	-15.88	2	-13.81	2.35	-22.21
15	16	16.45	0.00	22.11	47.31	0	32.03	2	-10.55	2	-9.18	2.35	-14.76
16	16	16.45	-0.26	22.11	47.31	0	31.94	2	-10.64	2	-9.25	2.35	-14.83
16	17	17.63	-0.30	25.68	19.23	0	12.92	2	-4.39	2	-3.82	2.35	-6.09
17	17	17.63	-0.30	25.68	19.23	0	12.60	2	-6.26	2	-5.44	2.35	-7.92
17	18	18.80	-0.35	29.24	-13.03	0	-8.74	2	4.04	2	3.51	2.35	5.19
18	18	18.80	0.00	29.25	-13.03	0	-8.61	2	4.17	2	3.62	2.35	5.30
18	19	19.98	0.00	32.82	-49.49	0	-32.71	2	15.84	2	13.76	2.35	20.14
19	19	19.98	0.00	32.82	-49.49	0	-32.71	2	15.84	2	13.76	2.35	20.14
19	20	21.15	0.00	36.38	-90.15	0	-59.59	2	28.85	2	25.06	2.35	36.69
20	20	21.15	0.00	36.38	-90.15	0	-59.59	2	28.85	2	25.06	2.35	36.69
20	21	22.33	0.00	39.95	-135.00	0	-89.23	2	43.20	2	37.53	2.35	54.95
21	21	22.33	0.00	39.95	-135.00	0	-89.23	2	43.20	2	37.53	2.35	54.95
21	22	22.50	0.00	40.48	-142.04	0	-93.89	2	45.45	2	39.49	2.35	57.81
22	22	22.50	0.00	40.48	-142.04	0	-93.89	2	45.45	2	39.49	2.35	57.81
22	23	23.50	0.00	43.52	-184.04	0	-121.65	2	58.89	2	51.16	2.35	74.90
23	1023	23.50	0.00	-44.02	-184.04	0	-121.65	2	58.89	2	51.16	2.35	74.90
23	24	24.50	0.00	-40.99	-141.53	0	-93.55	2	45.29	2	39.35	2.35	57.60
24	24	24.50	0.00	-40.99	-141.53	0	-93.55	2	45.29	2	39.35	2.35	57.60
24	25	24.95	0.00	-39.62	-123.40	0	-81.57	2	39.49	2	34.31	2.35	50.22
25	25	24.95	0.00	-39.62	-123.40	0	-81.57	2	39.49	2	34.31	2.35	50.22
25	26	26.40	0.00	-35.21	-69.14	0	-45.70	2	22.12	2	19.22	2.35	28.14
26	26	26.40	0.00	-35.21	-69.14	0	-45.70	2	22.12	2	19.22	2.35	28.14
26	27	27.85	0.00	-30.81	-21.28	0	-14.07	2	6.81	2	5.92	2.35	8.66
27	27	27.85	0.00	-30.81	-21.28	0	-14.07	2	6.81	2	5.92	2.35	8.66
27	28	29.30	0.00	-26.41	20.21	0	13.36	2	-6.47	2	-5.62	2.35	-8.23
28	28	29.30	-0.25	-26.40	20.21	0	13.27	2	-6.56	2	-5.70	2.35	-8.31
28	29	30.75	-0.21	-22.00	55.30	0	36.48	2	-17.77	2	-15.44	2.35	-22.57
29	29	30.75	-0.21	-22.00	55.30	0	37.37	2	-12.40	2	-10.79	2.35	-17.31
29	30	32.20	-0.17	-17.60	84.01	0	56.82	2	-18.79	2	-16.35	2.35	-26.26
30	30	32.20	0.00	-17.60	84.01	0	56.87	2	-18.73	2	-16.30	2.35	-26.21
30	31	33.65	0.00	-13.19	106.33	0	71.99	2	-23.71	2	-20.63	2.35	-33.17
31	31	33.65	0.00	-13.19	106.33	0	71.99	2	-23.71	2	-20.63	2.35	-33.17
31	32	35.10	0.00	-8.79	122.27	0	82.78	2	-27.27	2	-23.72	2.35	-38.15
32	32	35.10	0.00	-8.79	122.27	0	82.78	2	-27.27	2	-23.72	2.35	-38.15
32	33	36.55	0.00	-4.38	131.82	0	89.24	2	-29.40	2	-25.57	2.35	-41.13
33	33	36.55	0.00	-4.38	131.82	0	89.24	2	-29.40	2	-25.57	2.35	-41.13
33	34	38.00	0.00	0.02	134.98	0	91.38	2	-30.10	2	-26.19	2.35	-42.11
34	34	38.00	0.00	0.02	134.98	0	91.38	2	-30.10	2	-26.19	2.35	-42.11
34	35	39.45	0.00	4.43	131.76	0	89.20	2	-29.38	2	-25.56	2.35	-41.11
35	35	39.45	0.00	4.43	131.76	0	89.20	2	-29.38	2	-25.56	2.35	-41.11
35	36	40.90	0.00	8.83	122.15	0	82.70	2	-27.24	2	-23.70	2.35	-38.11
36	36	40.90	0.00	8.83	122.15	0	82.70	2	-27.24	2	-23.70	2.35	-38.11
36	37	42.35	0.00	13.23	106.15	0	71.86	2	-23.67	2	-20.59	2.35	-33.12
37	37	42.35	0.00	13.23	106.15	0	71.86	2	-23.67	2	-20.59	2.35	-33.12
37	38	43.80	0.00	17.64	83.77	0	56.71	2	-18.68	2	-16.25	2.35	-26.14
38	38	43.80	-0.17	17.64	83.77	0	56.66	2	-18.74	2	-16.30	2.35	-26.18
38	39	45.25	-0.21	22.04	55.00	0	37.17	2	-12.33	2	-10.73	2.35	-17.22



CÁLCULO TENSIONAL

Hipótesis de cálculo:
CMRESTO.Tinf

RestoCargaMuerta). Tensiones a tiempo Tinf

CMRESTO

Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-0.21	22.04	55.00	0	36.28	2	-17.68	2	-15.36	2.35	-22.45
39	40	46.70	-0.25	26.45	19.85	0	13.03	2	-6.44	2	-5.60	2.35	-8.16
40	40	46.70	0.00	26.45	19.85	0	13.12	2	-6.35	2	-5.52	2.35	-8.08
40	41	48.15	0.00	30.85	-21.70	0	-14.34	2	6.94	2	6.03	2.35	8.83
41	41	48.15	0.00	30.85	-21.70	0	-14.34	2	6.94	2	6.03	2.35	8.83
41	42	49.60	0.00	35.26	-69.62	0	-46.02	2	22.28	2	19.35	2.35	28.34
42	42	49.60	0.00	35.26	-69.62	0	-46.02	2	22.28	2	19.35	2.35	28.34
42	43	51.05	0.00	39.66	-123.94	0	-81.92	2	39.66	2	34.46	2.35	50.44
43	43	51.05	0.00	39.66	-123.94	0	-81.92	2	39.66	2	34.46	2.35	50.44
43	44	51.50	0.00	41.03	-142.09	0	-93.92	2	45.47	2	39.50	2.35	57.83
44	44	51.50	0.00	41.03	-142.09	0	-93.92	2	45.47	2	39.50	2.35	57.83
44	45	52.50	0.00	44.06	-184.64	0	-122.05	2	59.08	2	51.33	2.35	75.15
45	1045	52.50	0.00	-43.52	-184.64	0	-122.05	2	59.08	2	51.33	2.35	75.15
45	46	53.50	0.00	-40.48	-142.64	0	-94.29	2	45.64	2	39.65	2.35	58.05
46	46	53.50	0.00	-40.48	-142.64	0	-94.29	2	45.64	2	39.65	2.35	58.05
46	47	53.95	0.00	-39.11	-124.73	0	-82.45	2	39.91	2	34.67	2.35	50.77
47	47	53.95	0.00	-39.11	-124.73	0	-82.45	2	39.91	2	34.67	2.35	50.77
47	48	55.40	0.00	-34.71	-71.21	0	-47.07	2	22.79	2	19.80	2.35	28.98
48	48	55.40	0.00	-34.71	-71.21	0	-47.07	2	22.79	2	19.80	2.35	28.98
48	49	56.85	0.00	-30.31	-24.07	0	-15.91	2	7.70	2	6.69	2.35	9.80
49	49	56.85	0.00	-30.31	-24.07	0	-15.91	2	7.70	2	6.69	2.35	9.80
49	50	58.30	0.00	-25.90	16.68	0	11.03	2	-5.34	2	-4.64	2.35	-6.79
50	50	58.30	-0.25	-25.90	16.68	0	10.93	2	-5.43	2	-4.72	2.35	-6.87
50	51	59.75	-0.21	-21.50	51.04	0	33.66	2	-16.41	2	-14.26	2.35	-20.84
51	51	59.75	-0.21	-21.50	51.04	0	34.48	2	-11.45	2	-9.96	2.35	-15.98
51	52	61.20	-0.16	-17.09	79.02	0	53.44	2	-17.67	2	-15.38	2.35	-24.70
52	52	61.20	0.00	-17.09	79.02	0	53.50	2	-17.62	2	-15.33	2.35	-24.65
52	53	62.65	0.00	-12.69	100.61	0	68.11	2	-22.44	2	-19.52	2.35	-31.39
53	53	62.65	0.00	-12.69	100.61	0	68.11	2	-22.44	2	-19.52	2.35	-31.39
53	54	64.10	0.00	-8.28	115.81	0	78.40	2	-25.83	2	-22.47	2.35	-36.13
54	54	64.10	0.00	-8.28	115.81	0	78.40	2	-25.83	2	-22.47	2.35	-36.13
54	55	65.55	0.00	-3.88	124.63	0	84.37	2	-27.79	2	-24.18	2.35	-38.88
55	55	65.55	0.00	-3.88	124.63	0	84.37	2	-27.79	2	-24.18	2.35	-38.88
55	56	67.00	0.00	0.53	127.06	0	86.02	2	-28.33	2	-24.65	2.35	-39.64
56	56	67.00	0.00	0.53	127.06	0	86.02	2	-28.33	2	-24.65	2.35	-39.64
56	57	68.45	0.00	4.93	123.11	0	83.35	2	-27.45	2	-23.88	2.35	-38.41
57	57	68.45	0.00	4.93	123.11	0	83.35	2	-27.45	2	-23.88	2.35	-38.41
57	58	69.90	0.00	9.33	112.77	0	76.35	2	-25.15	2	-21.88	2.35	-35.18
58	58	69.90	0.00	9.33	112.77	0	76.35	2	-25.15	2	-21.88	2.35	-35.18
58	59	71.35	0.00	13.74	96.04	0	65.02	2	-21.42	2	-18.63	2.35	-29.96
59	59	71.35	0.00	13.74	96.04	0	65.02	2	-21.42	2	-18.63	2.35	-29.96
59	60	72.80	0.00	18.14	72.93	0	49.37	2	-16.26	2	-14.15	2.35	-22.75
60	60	72.80	-0.17	18.14	72.93	0	49.32	2	-16.32	2	-14.20	2.35	-22.80
60	61	74.25	-0.22	22.55	43.43	0	29.33	2	-9.76	2	-8.49	2.35	-13.61
61	61	74.25	-0.22	22.55	43.43	0	28.63	2	-13.98	2	-12.14	2.35	-17.75
61	62	75.70	-0.26	26.95	7.54	0	4.89	2	-2.51	2	-2.18	2.35	-3.15
62	62	75.70	0.00	26.95	7.54	0	4.98	2	-2.41	2	-2.10	2.35	-3.07
62	63	77.15	0.00	31.36	-34.74	0	-22.96	2	11.12	2	9.66	2.35	14.14
63	63	77.15	0.00	31.36	-34.74	0	-22.96	2	11.12	2	9.66	2.35	14.14
63	64	78.60	0.00	35.76	-83.39	0	-55.12	2	26.68	2	23.18	2.35	33.94
64	64	78.60	0.00	35.76	-83.39	0	-55.12	2	26.68	2	23.18	2.35	33.94
64	65	80.05	0.00	40.17	-138.44	0	-91.51	2	44.30	2	38.49	2.35	56.35
65	65	80.05	0.00	40.17	-138.44	0	-91.51	2	44.30	2	38.49	2.35	56.35
65	66	80.50	0.00	41.53	-156.82	0	-103.66	2	50.18	2	43.60	2.35	63.83
66	66	80.50	0.00	41.53	-156.82	0	-103.66	2	50.18	2	43.60	2.35	63.83
66	67	81.50	0.00	44.57	-199.87	0	-132.11	2	63.96	2	55.56	2.35	81.35
67	1067	81.50	0.00	-47.18	-199.87	0	-132.11	2	63.96	2	55.56	2.35	81.35
67	68	82.50	0.00	-44.14	-154.21	0	-101.93	2	49.35	2	42.87	2.35	62.76
68	68	82.50	0.00	-44.14	-154.21	0	-101.93	2	49.35	2	42.87	2.35	62.76
68	69	83.08	0.00	-42.39	-129.34	0	-85.49	2	41.39	2	35.96	2.35	52.64
69	69	83.08	0.00	-42.39	-129.34	0	-85.49	2	41.39	2	35.96	2.35	52.64
69	70	84.65	0.00	-37.61	-66.34	0	-43.85	2	21.23	2	18.44	2.35	27.00
70	70	84.65	0.00	-37.61	-66.34	0	-43.85	2	21.23	2	18.44	2.35	27.00
70	71	86.23	0.00	-32.82	-10.87	0	-7.19	2	3.48	2	3.02	2.35	4.42
71	71	86.23	0.00	-32.82	-10.87	0	-7.19	2	3.48	2	3.02	2.35	4.42
71	72	87.80	0.00	-28.04	37.06	0	24.50	2	-11.86	2	-10.30	2.35	-15.08
72	72	87.80	-0.25	-28.04	37.06	0	24.40	2	-11.95	2	-10.38	2.35	-15.16
72	73	89.38	-0.21	-23.26	77.45	0	51.12	2	-24.86	2	-21.60	2.35	-31.59
73	73	89.38	-0.21	-23.26	77.45	0	52.36	2	-17.34	2	-15.09	2.35	-24.22
73	74	90.95	-0.16	-18.47	110.31	0	74.63	2	-24.65	2	-21.45	2.35	-34.46
74	74	90.95	0.00	-18.47	110.31	0	74.68	2	-24.60	2	-21.40	2.35	-34.42
74	75	92.53	0.00	-13.69	135.64	0	91.83	2	-30.25	2	-26.31	2.35	-42.32
75	75	92.53	0.00	-13.69	135.64	0	91.83	2	-30.25	2	-26.31	2.35	-42.32
75	76	94.10	0.00	-8.90	153.43	0	103.87	2	-34.21	2	-29.77	2.35	-47.87
76	76	94.10	0.00	-8.90	153.43	0	103.87	2	-34.21	2	-29.77	2.35	-47.87
76	77	95.68	0.00	-4.12	163.68	0	110.81	2	-36.50	2	-31.75	2.35	-51.07

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CMRESTO.Tinf

RestoCargaMuerta). Tensiones a tiempo Tinf

1. IJCMRESTO

Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-4.12	163.68	0	110.81	2	-36.50	2	-31.75	2.35	-51.07
77	78	97.25	0.00	0.66	166.41	0	112.66	2	-37.11	2	-32.28	2.35	-51.92
78	78	97.25	0.00	0.66	166.41	0	112.66	2	-37.11	2	-32.28	2.35	-51.92
78	79	98.83	0.00	5.45	161.59	0	109.40	2	-36.03	2	-31.35	2.35	-50.42
79	79	98.83	0.00	5.45	161.59	0	109.40	2	-36.03	2	-31.35	2.35	-50.42
79	80	100.40	0.00	10.23	149.24	0	101.04	2	-33.28	2	-28.95	2.35	-46.56
80	80	100.40	0.00	10.23	149.24	0	101.04	2	-33.28	2	-28.95	2.35	-46.56
80	81	101.98	0.00	15.02	129.36	0	87.58	2	-28.85	2	-25.10	2.35	-40.36
81	81	101.98	0.00	15.02	129.36	0	87.58	2	-28.85	2	-25.10	2.35	-40.36
81	82	103.55	0.00	19.80	101.94	0	69.01	2	-22.73	2	-19.78	2.35	-31.81
82	82	103.55	-0.17	19.80	101.94	0	68.96	2	-22.79	2	-19.82	2.35	-31.85
82	83	105.13	-0.22	24.58	66.99	0	45.28	2	-15.01	2	-13.06	2.35	-20.96
83	83	105.13	-0.22	24.58	66.99	0	44.20	2	-21.52	2	-18.69	2.35	-27.34
83	84	106.70	-0.26	29.37	24.50	0	16.10	2	-7.94	2	-6.89	2.35	-10.05
84	84	106.70	0.00	29.37	24.50	0	16.19	2	-7.84	2	-6.81	2.35	-9.97
84	85	108.28	0.00	34.15	-25.53	0	-16.88	2	8.17	2	7.10	2.35	10.39
85	85	108.28	0.00	34.15	-25.53	0	-16.88	2	8.17	2	7.10	2.35	10.39
85	86	109.85	0.00	38.94	-83.09	0	-54.92	2	26.59	2	23.10	2.35	33.82
86	86	109.85	0.00	38.94	-83.09	0	-54.92	2	26.59	2	23.10	2.35	33.82
86	87	111.43	0.00	43.72	-148.18	0	-97.95	2	47.42	2	41.19	2.35	60.31
87	87	111.43	0.00	43.72	-148.18	0	-97.95	2	47.42	2	41.19	2.35	60.31
87	88	112.00	0.00	45.47	-173.83	0	-114.90	2	55.63	2	48.32	2.35	70.75
88	88	112.00	0.00	45.47	-173.83	0	-114.90	2	55.63	2	48.32	2.35	70.75
88	89	113.00	0.00	48.51	-220.81	0	-145.96	2	70.66	2	61.39	2.35	89.87
89	1089	113.00	0.00	48.60	-220.81	0	-145.96	2	70.66	2	61.39	2.35	89.87
89	90	114.00	0.00	45.56	-173.73	0	-114.84	2	55.59	2	48.30	2.35	70.71
90	90	114.00	0.00	45.56	-173.73	0	-114.84	2	55.59	2	48.30	2.35	70.71
90	91	114.58	0.00	43.81	-148.04	0	-97.85	2	47.37	2	41.16	2.35	60.25
91	91	114.58	0.00	43.81	-148.04	0	-97.85	2	47.37	2	41.16	2.35	60.25
91	92	116.15	0.00	39.03	-82.80	0	-54.73	2	26.50	2	23.02	2.35	33.70
92	92	116.15	0.00	39.03	-82.80	0	-54.73	2	26.50	2	23.02	2.35	33.70
92	93	117.73	0.00	34.24	-25.10	0	-16.59	2	8.03	2	6.98	2.35	10.22
93	93	117.73	0.00	34.24	-25.10	0	-16.59	2	8.03	2	6.98	2.35	10.22
93	94	119.30	0.00	29.46	25.06	0	16.56	2	-8.02	2	-6.97	2.35	-10.20
94	94	119.30	-0.26	29.46	25.06	0	16.47	2	-8.11	2	-7.05	2.35	-10.28
94	95	120.88	-0.22	24.67	67.69	0	44.66	2	-21.74	2	-18.89	2.35	-27.62
95	95	120.88	-0.22	24.67	67.69	0	45.75	2	-15.17	2	-13.19	2.35	-21.18
95	96	122.45	-0.18	19.89	102.79	0	69.53	2	-22.98	2	-19.99	2.35	-32.12
96	96	122.45	0.00	19.89	102.79	0	69.59	2	-22.92	2	-19.94	2.35	-32.07
96	97	124.03	0.00	15.11	130.35	0	88.25	2	-29.07	2	-25.29	2.35	-40.67
97	97	124.03	0.00	15.11	130.35	0	88.25	2	-29.07	2	-25.29	2.35	-40.67
97	98	125.60	0.00	10.32	150.37	0	101.80	2	-33.53	2	-29.17	2.35	-46.92
98	98	125.60	0.00	10.32	150.37	0	101.80	2	-33.53	2	-29.17	2.35	-46.92
98	99	127.18	0.00	5.54	162.86	0	110.26	2	-36.32	2	-31.59	2.35	-50.81
99	99	127.18	0.00	5.54	162.86	0	110.26	2	-36.32	2	-31.59	2.35	-50.81
99	100	128.75	0.00	0.75	167.82	0	113.61	2	-37.42	2	-32.56	2.35	-52.36
100	100	128.75	0.00	0.75	167.82	0	113.61	2	-37.42	2	-32.56	2.35	-52.36
100	101	130.33	0.00	4.03	165.24	0	111.87	2	-36.85	2	-32.06	2.35	-51.55
101	101	130.33	0.00	4.03	165.24	0	111.87	2	-36.85	2	-32.06	2.35	-51.55
101	102	131.90	0.00	8.81	155.13	0	105.02	2	-34.59	2	-30.10	2.35	-48.40
102	102	131.90	0.00	8.81	155.13	0	105.02	2	-34.59	2	-30.10	2.35	-48.40
102	103	133.48	0.00	13.60	137.48	0	93.07	2	-30.66	2	-26.67	2.35	-42.89
103	103	133.48	0.00	13.60	137.48	0	93.07	2	-30.66	2	-26.67	2.35	-42.89
103	104	135.05	0.00	18.38	112.29	0	76.02	2	-25.04	2	-21.78	2.35	-35.03
104	104	135.05	-0.16	18.38	112.29	0	75.97	2	-25.09	2	-21.83	2.35	-35.08
104	105	136.63	-0.20	23.17	79.57	0	53.80	2	-17.81	2	-15.49	2.35	-24.88
105	105	136.63	-0.20	23.17	79.57	0	52.52	2	-25.54	2	-22.18	2.35	-32.45
105	106	138.20	-0.25	27.95	39.32	0	25.90	2	-12.67	2	-11.01	2.35	-16.08
106	106	138.20	0.00	27.95	39.32	0	25.99	2	-12.58	2	-10.93	2.35	-16.00
106	107	139.78	0.00	32.73	-8.47	0	-5.60	2	2.71	2	2.35	2.35	3.45
107	107	139.78	0.00	32.73	-8.47	0	-5.60	2	2.71	2	2.35	2.35	3.45
107	108	141.35	0.00	37.52	-63.79	0	-42.17	2	20.41	2	17.73	2.35	25.96
108	108	141.35	0.00	37.52	-63.79	0	-42.17	2	20.41	2	17.73	2.35	25.96
108	109	142.93	0.00	42.30	-126.65	0	-83.72	2	40.53	2	35.21	2.35	51.55
109	109	142.93	0.00	42.30	-126.65	0	-83.72	2	40.53	2	35.21	2.35	51.55
109	110	143.50	0.00	44.05	-151.48	0	-100.13	2	48.47	2	42.11	2.35	61.65
110	110	143.50	0.00	44.05	-151.48	0	-100.13	2	48.47	2	42.11	2.35	61.65
110	111	144.50	0.00	47.09	-197.05	0	-130.25	2	63.06	2	54.78	2.35	80.20
111	1111	144.50	0.00	44.08	-197.05	0	-130.25	2	63.06	2	54.78	2.35	80.20
111	112	145.50	0.00	41.04	-154.49	0	-102.12	2	49.44	2	42.95	2.35	62.88
112	112	145.50	0.00	41.04	-154.49	0	-102.12	2	49.44	2	42.95	2.35	62.88
112	113	145.68	0.00	40.51	-147.36	0	-97.40	2	47.16	2	40.97	2.35	59.98
113	113	145.68	0.00	40.51	-147.36	0	-97.40	2	47.16	2	40.97	2.35	59.98
113	114	146.85	0.00	36.94	-101.86	0	-67.33	2	32.60	2	28.32	2.35	41.46
114	114	146.85	0.00	36.94	-101.86	0	-67.33	2	32.60	2	28.32	2.35	41.46
114	115	148.03	0.00	33.37	-60.55	0	-40.02	2	19.38	2	16.83	2.35	24.64

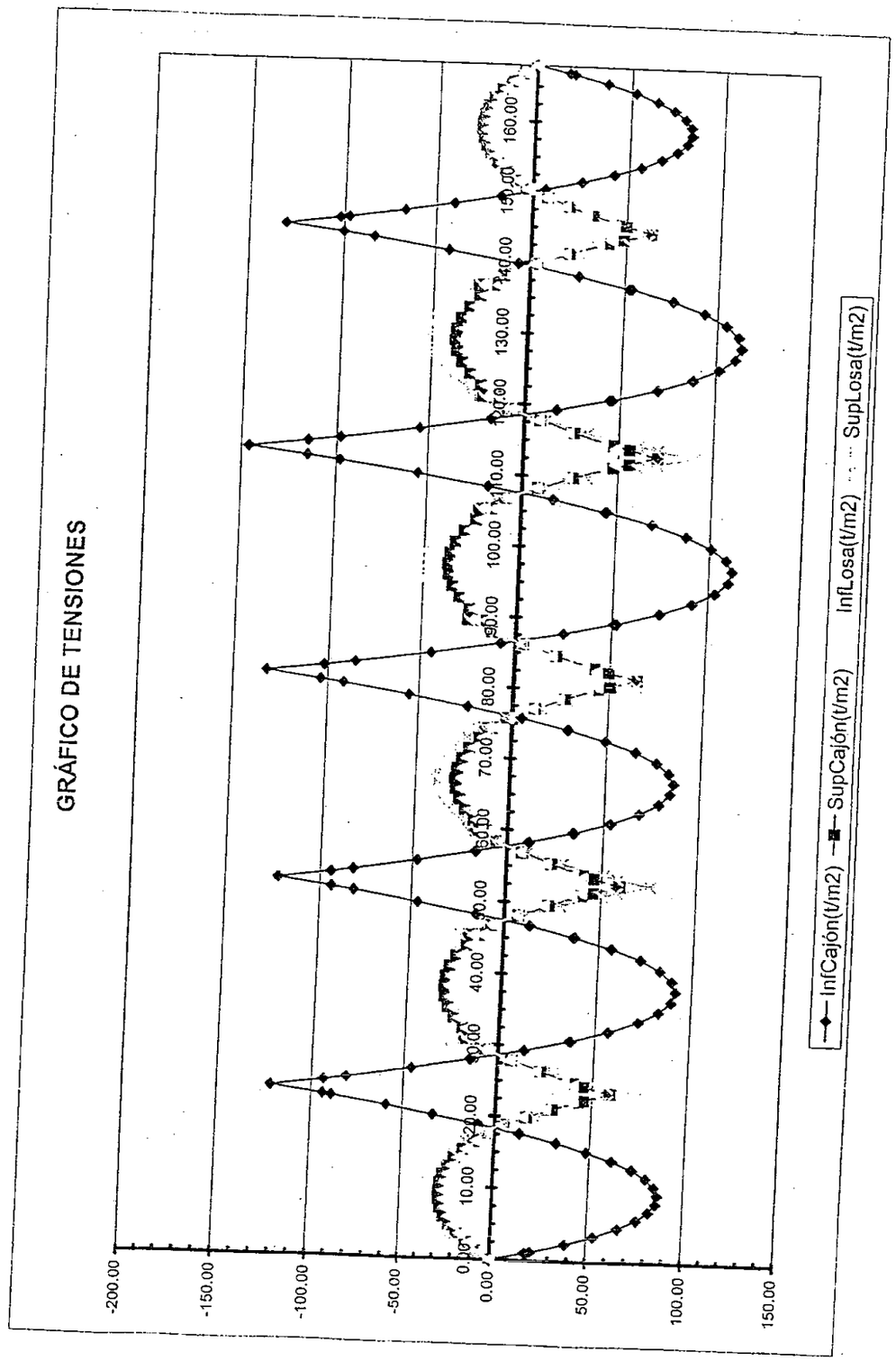
CÁLCULO TENSIONAL

Hipótesis de cálculo:
CMRESTO.Tinf
'RestoCargaMuerta). Tensiones a tiempo Tinf
CMRESTO
EXC

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	-33.37	-60.55	0	-40.02	2	19.38	2	16.83	2.35	24.64
115	116	149.20	0.00	-29.80	-23.44	0	-15.49	2	7.50	2	6.52	2.35	9.54
116	116	149.20	-0.35	-29.80	-23.44	0	-15.62	2	7.37	2	6.40	2.35	9.43
116	117	150.38	-0.31	-26.23	9.48	0	6.15	2	-3.15	2	-2.73	2.35	-3.96
117	117	150.38	-0.31	-26.23	9.48	0	6.32	2	-2.22	2	-1.93	2.35	-3.05
117	118	151.55	-0.27	-22.66	38.20	0	25.77	2	-8.61	2	-7.49	2.35	-12.00
118	118	151.55	0.00	-22.66	38.20	0	25.86	2	-8.52	2	-7.41	2.35	-11.92
118	119	152.73	0.00	-19.09	62.73	0	42.47	2	-13.99	2	-12.17	2.35	-19.57
119	119	152.73	0.00	-19.09	62.73	0	42.47	2	-13.99	2	-12.17	2.35	-19.57
119	120	153.90	0.00	-15.52	83.07	0	56.24	2	-18.52	2	-16.12	2.35	-25.92
120	120	153.90	0.00	-15.52	83.07	0	56.24	2	-18.52	2	-16.12	2.35	-25.92
120	121	155.08	0.00	-11.95	99.21	0	67.17	2	-22.12	2	-19.25	2.35	-30.95
121	121	155.08	0.00	-11.95	99.21	0	67.17	2	-22.12	2	-19.25	2.35	-30.95
121	122	156.25	0.00	-8.38	111.16	0	75.26	2	-24.79	2	-21.57	2.35	-34.68
122	122	156.25	0.00	-8.38	111.16	0	75.26	2	-24.79	2	-21.57	2.35	-34.68
122	123	157.43	0.00	-4.82	118.92	0	80.51	2	-26.52	2	-23.07	2.35	-37.10
123	123	157.43	0.00	-4.82	118.92	0	80.51	2	-26.52	2	-23.07	2.35	-37.10
123	124	158.60	0.00	-1.25	122.48	0	82.92	2	-27.31	2	-23.76	2.35	-38.21
124	124	158.60	0.00	-1.25	122.48	0	82.92	2	-27.31	2	-23.76	2.35	-38.21
125	125	159.78	0.00	2.32	121.85	0	82.49	2	-27.17	2	-23.64	2.35	-38.02
125	126	160.95	0.00	5.89	117.02	0	82.49	2	-27.17	2	-23.64	2.35	-38.02
126	126	160.95	0.00	5.89	117.02	0	79.22	2	-26.10	2	-22.70	2.35	-36.51
126	127	162.13	0.00	9.46	108.00	0	79.22	2	-26.10	2	-22.70	2.35	-36.51
127	127	162.13	0.00	9.46	108.00	0	73.12	2	-24.08	2	-20.95	2.35	-33.70
127	128	163.30	0.00	13.03	94.79	0	73.12	2	-24.08	2	-20.95	2.35	-33.70
128	128	163.30	0.00	13.03	94.79	0	64.17	2	-21.14	2	-18.39	2.35	-29.57
128	129	164.48	0.00	16.60	77.38	0	64.17	2	-21.14	2	-18.39	2.35	-29.57
129	129	164.48	0.00	16.60	77.38	0	52.39	2	-17.26	2	-15.01	2.35	-24.14
129	130	165.65	0.00	20.17	55.78	0	52.39	2	-17.26	2	-15.01	2.35	-24.14
130	130	165.65	0.00	20.17	55.78	0	37.76	2	-12.44	2	-10.82	2.35	-17.40
130	131	166.83	0.00	23.74	29.99	0	37.76	2	-12.44	2	-10.82	2.35	-17.40
131	131	166.83	0.00	23.74	29.99	0	20.30	2	-6.69	2	-5.82	2.35	-9.36
131	132	167.00	0.00	24.27	25.78	0	20.30	2	-6.69	2	-5.82	2.35	-9.36
132	132	167.00	0.00	24.27	25.78	0	17.45	2	-5.75	2	-5.00	2.35	-8.04
132	133	168.00	0.00	27.31	0.00	0	17.45	2	-5.75	2	-5.00	2.35	-8.04
						0	0.00	2	0.00	2	0.00	2.35	0.00

Programa DINTEL IDEAM S.A.
CMRESTO.Tinf

GRÁFICO DE TENSIONES



CÁLCULO TENSIONAL

Hipótesis de cálculo:
GRAD.Tinf
Gradientetermico). Tensiones a tiempo Tinf
IGRAD
exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-9.19	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-9.19	9.19	0	6.22	2	-2.04	2	-1.78	2.35	-3.03
2	2	1.00	0.00	-9.19	9.19	0	6.22	2	-2.04	2	-1.78	2.35	-3.03
2	3	1.18	0.00	-9.19	10.80	0	7.31	2	-2.40	2	-2.09	2.35	-3.56
3	3	1.18	0.00	-9.19	10.80	0	7.31	2	-2.40	2	-2.09	2.35	-3.56
3	4	2.35	0.00	-9.19	21.59	0	14.61	2	-4.80	2	-4.17	2.35	-7.12
4	4	2.35	0.00	-9.19	21.59	0	14.61	2	-4.80	2	-4.17	2.35	-7.12
4	5	3.53	0.00	-9.19	32.39	0	21.91	2	-7.21	2	-6.26	2.35	-10.69
5	5	3.53	0.00	-9.19	32.39	0	21.91	2	-7.21	2	-6.26	2.35	-10.69
5	6	4.70	0.00	-9.19	43.18	0	29.21	2	-9.61	2	-8.34	2.35	-14.25
6	6	4.70	0.00	-9.19	43.18	0	29.21	2	-9.61	2	-8.34	2.35	-14.25
6	7	5.88	0.00	-9.19	53.98	0	36.52	2	-12.01	2	-10.43	2.35	-17.81
7	7	5.88	0.00	-9.19	53.98	0	36.52	2	-12.01	2	-10.43	2.35	-17.81
7	8	7.05	0.00	-9.19	64.78	0	43.83	2	-14.41	2	-12.52	2.35	-21.37
8	8	7.05	0.00	-9.19	64.78	0	43.83	2	-14.41	2	-12.52	2.35	-21.37
8	9	8.23	0.00	-9.19	75.57	0	51.13	2	-16.82	2	-14.60	2.35	-24.93
9	9	8.23	0.00	-9.19	75.57	0	51.13	2	-16.82	2	-14.60	2.35	-24.93
9	10	9.40	0.00	-9.19	86.37	0	58.43	2	-19.22	2	-16.69	2.35	-28.49
10	10	9.40	0.00	-9.19	86.37	0	58.43	2	-19.22	2	-16.69	2.35	-28.49
10	11	10.58	0.00	-9.19	97.17	0	65.74	2	-21.62	2	-18.78	2.35	-32.06
1	11	10.58	0.00	-9.19	97.17	0	65.74	2	-21.62	2	-18.78	2.35	-32.06
11	12	11.75	0.00	-9.19	107.96	0	73.04	2	-24.02	2	-20.86	2.35	-35.62
12	12	11.75	0.00	-9.19	107.96	0	73.04	2	-24.02	2	-20.86	2.35	-35.62
12	13	12.93	0.00	-9.19	118.76	0	80.35	2	-26.43	2	-22.95	2.35	-39.18
13	13	12.93	0.00	-9.19	118.76	0	80.35	2	-26.43	2	-22.95	2.35	-39.18
13	14	14.10	0.00	-9.19	129.55	0	87.65	2	-28.83	2	-25.04	2.35	-42.74
14	14	14.10	0.00	-9.19	129.55	0	87.65	2	-28.83	2	-25.04	2.35	-42.74
14	15	15.28	0.00	-9.19	140.35	0	94.95	2	-31.23	2	-27.12	2.35	-46.30
15	15	15.28	0.00	-9.19	140.35	0	94.95	2	-31.23	2	-27.12	2.35	-46.30
15	16	16.45	0.00	-9.19	151.15	0	102.26	2	-33.63	2	-29.21	2.35	-49.87
16	16	16.45	0.11	-9.19	151.15	0	102.30	2	-33.60	2	-29.18	2.35	-49.83
16	17	17.63	0.11	-9.19	161.94	0	109.60	2	-36.00	2	-31.26	2.35	-53.39
17	17	17.63	0.11	-9.19	161.94	0	106.95	2	-51.70	2	-44.90	2.35	-69.02
17	18	18.80	0.11	-9.19	172.74	0	114.08	2	-55.15	2	-47.90	2.35	-73.62
18	18	18.80	0.00	-9.19	172.74	0	114.05	2	-55.18	2	-47.93	2.35	-73.65
18	19	19.98	0.00	-9.19	183.53	0	121.17	2	-58.63	2	-50.92	2.35	-78.25
19	19	19.98	0.00	-9.19	183.53	0	121.17	2	-58.63	2	-50.92	2.35	-78.25
19	20	21.15	0.00	-9.19	194.33	0	128.30	2	-62.08	2	-53.92	2.35	-82.85
20	20	21.15	0.00	-9.19	194.33	0	128.30	2	-62.08	2	-53.92	2.35	-82.85
20	21	22.33	0.00	-9.19	205.13	0	135.43	2	-65.53	2	-56.91	2.35	-87.46
21	21	22.33	0.00	-9.19	205.13	0	135.43	2	-65.53	2	-56.91	2.35	-87.46
21	22	22.50	0.00	-9.19	206.73	0	136.49	2	-66.04	2	-57.36	2.35	-88.14
22	22	22.50	0.00	-9.19	206.73	0	136.49	2	-66.04	2	-57.36	2.35	-88.14
22	23	23.50	0.00	-9.19	215.92	0	142.56	2	-68.98	2	-59.91	2.35	-92.06
23	1023	23.50	0.00	1.60	215.92	0	142.56	2	-68.98	2	-59.91	2.35	-92.06
)	24	24.50	0.00	1.60	214.32	0	141.50	2	-68.47	2	-59.46	2.35	-91.38
	24	24.50	0.00	1.60	214.32	0	141.50	2	-68.47	2	-59.46	2.35	-91.38
24	25	24.95	0.00	1.60	213.60	0	141.03	2	-68.24	2	-59.26	2.35	-91.07
25	25	24.95	0.00	1.60	213.60	0	141.03	2	-68.24	2	-59.26	2.35	-91.07
25	26	26.40	0.00	1.60	211.28	0	139.49	2	-67.49	2	-58.62	2.35	-90.08
26	26	26.40	0.00	1.60	211.28	0	139.49	2	-67.49	2	-58.62	2.35	-90.08
26	27	27.85	0.00	1.60	208.96	0	137.96	2	-66.75	2	-57.98	2.35	-89.09
27	27	27.85	0.00	1.60	208.96	0	137.96	2	-66.75	2	-57.98	2.35	-89.09
27	28	29.30	0.00	1.60	206.64	0	136.43	2	-66.01	2	-57.33	2.35	-88.10
28	28	29.30	0.02	1.60	206.64	0	136.44	2	-66.01	2	-57.33	2.35	-88.10
28	29	30.75	0.02	1.60	204.32	0	134.90	2	-65.26	2	-56.68	2.35	-87.11
29	29	30.75	0.02	1.60	204.32	0	138.24	2	-45.46	2	-39.48	2.35	-67.40
29	30	32.20	0.02	1.60	201.99	0	135.66	2	-44.94	2	-39.03	2.35	-66.63
30	30	32.20	0.00	1.60	201.99	0	136.66	2	-44.95	2	-39.04	2.35	-66.64
30	31	33.65	0.00	1.60	199.67	0	135.09	2	-44.43	2	-38.59	2.35	-65.87
31	31	33.65	0.00	1.60	199.67	0	135.09	2	-44.43	2	-38.59	2.35	-65.87
31	32	35.10	0.00	1.60	197.35	0	133.52	2	-43.91	2	-38.14	2.35	-65.11
32	32	35.10	0.00	1.60	197.35	0	133.52	2	-43.91	2	-38.14	2.35	-65.11
32	33	36.55	0.00	1.60	195.03	0	131.95	2	-43.40	2	-37.69	2.35	-64.34
33	33	36.55	0.00	1.60	195.03	0	131.95	2	-43.40	2	-37.69	2.35	-64.34
33	34	38.00	0.00	1.60	192.71	0	130.38	2	-42.88	2	-37.24	2.35	-63.58
34	34	38.00	0.00	1.60	192.71	0	130.38	2	-42.88	2	-37.24	2.35	-63.58
34	35	39.45	0.00	1.60	190.39	0	128.81	2	-42.36	2	-36.79	2.35	-62.81
35	35	39.45	0.00	1.60	190.39	0	128.81	2	-42.36	2	-36.79	2.35	-62.81
35	36	40.90	0.00	1.60	188.07	0	127.24	2	-41.85	2	-36.35	2.35	-62.05
'	36	40.90	0.00	1.60	188.07	0	127.24	2	-41.85	2	-36.35	2.35	-62.05
J	37	42.35	0.00	1.60	185.74	0	125.66	2	-41.33	2	-35.90	2.35	-61.28
37	37	42.35	0.00	1.60	185.74	0	125.66	2	-41.33	2	-35.90	2.35	-61.28
37	38	43.80	0.00	1.60	183.42	0	124.09	2	-40.81	2	-35.45	2.35	-60.51
38	38	43.80	-0.02	1.60	183.42	0	124.09	2	-40.82	2	-35.45	2.35	-60.52
38	39	45.25	-0.02	1.60	181.10	0	122.52	2	-40.30	2	-35.00	2.35	-59.75

CÁLCULO TENSIONAL

Hipótesis de cálculo:
GRAD.Tinf
Gradientetermico). Tensiones a tiempo Tinf
IGRAD
inf. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-0.02	1.60	181.10	0	119.56	2	-57.86	2	-50.25	2.35	-77.22
39	40	46.70	-0.02	1.60	178.78	0	118.03	2	-57.12	2	-49.61	2.35	-76.23
40	40	46.70	0.00	1.60	178.78	0	118.04	2	-57.11	2	-49.60	2.35	-76.22
40	41	48.15	0.00	1.60	176.46	0	116.50	2	-56.37	2	-48.96	2.35	-75.24
41	41	48.15	0.00	1.60	176.46	0	116.50	2	-56.37	2	-48.96	2.35	-75.24
41	42	49.60	0.00	1.60	174.14	0	114.97	2	-55.63	2	-48.32	2.35	-74.25
42	42	49.60	0.00	1.60	174.14	0	114.97	2	-55.63	2	-48.32	2.35	-74.25
42	43	51.05	0.00	1.60	171.82	0	113.44	2	-54.89	2	-47.67	2.35	-73.26
43	43	51.05	0.00	1.60	171.82	0	113.44	2	-54.89	2	-47.67	2.35	-73.26
43	44	51.50	0.00	1.60	171.10	0	112.97	2	-54.66	2	-47.47	2.35	-72.95
44	44	51.50	0.00	1.60	171.10	0	112.97	2	-54.66	2	-47.47	2.35	-72.95
44	45	52.50	0.00	1.60	169.50	0	111.91	2	-54.15	2	-47.03	2.35	-72.27
45	1045	52.50	0.00	-0.19	169.50	0	111.91	2	-54.15	2	-47.03	2.35	-72.27
45	46	53.50	0.00	-0.19	169.68	0	112.03	2	-54.20	2	-47.08	2.35	-72.34
46	46	53.50	0.00	-0.19	169.68	0	112.03	2	-54.20	2	-47.08	2.35	-72.34
46	47	53.95	0.00	-0.19	169.77	0	112.09	2	-54.23	2	-47.10	2.35	-72.38
47	47	53.95	0.00	-0.19	169.77	0	112.09	2	-54.23	2	-47.10	2.35	-72.38
47	48	55.40	0.00	-0.19	170.03	0	112.26	2	-54.32	2	-47.18	2.35	-72.49
48	48	55.40	0.00	-0.19	170.03	0	112.26	2	-54.32	2	-47.18	2.35	-72.49
48	49	56.85	0.00	-0.19	170.30	0	112.44	2	-54.40	2	-47.25	2.35	-72.61
49	49	56.85	0.00	-0.19	170.30	0	112.44	2	-54.40	2	-47.25	2.35	-72.61
49	50	58.30	0.00	-0.19	170.57	0	112.62	2	-54.49	2	-47.33	2.35	-72.72
50	50	58.30	0.00	-0.19	170.57	0	112.62	2	-54.49	2	-47.33	2.35	-72.72
50	51	59.75	0.00	-0.19	170.84	0	112.79	2	-54.58	2	-47.40	2.35	-72.84
51	51	59.75	0.00	-0.19	170.84	0	115.58	2	-38.01	2	-33.02	2.35	-56.36
51	52	61.20	0.00	-0.19	171.11	0	115.76	2	-38.07	2	-33.07	2.35	-56.45
52	52	61.20	0.00	-0.19	171.11	0	115.76	2	-38.07	2	-33.07	2.35	-56.45
52	53	62.65	0.00	-0.19	171.38	0	115.95	2	-38.13	2	-33.12	2.35	-56.54
53	53	62.65	0.00	-0.19	171.38	0	115.95	2	-38.13	2	-33.12	2.35	-56.54
53	54	64.10	0.00	-0.19	171.65	0	116.13	2	-38.19	2	-33.17	2.35	-56.63
54	54	64.10	0.00	-0.19	171.65	0	116.13	2	-38.19	2	-33.17	2.35	-56.63
54	55	65.55	0.00	-0.19	171.92	0	116.31	2	-38.25	2	-33.22	2.35	-56.72
55	55	65.55	0.00	-0.19	171.92	0	116.31	2	-38.25	2	-33.22	2.35	-56.72
55	56	67.00	0.00	-0.19	172.19	0	116.49	2	-38.31	2	-33.28	2.35	-56.81
56	56	67.00	0.00	-0.19	172.19	0	116.49	2	-38.31	2	-33.28	2.35	-56.81
56	57	68.45	0.00	-0.19	172.46	0	116.68	2	-38.37	2	-33.33	2.35	-56.90
57	57	68.45	0.00	-0.19	172.46	0	116.68	2	-38.37	2	-33.33	2.35	-56.90
57	58	69.90	0.00	-0.19	172.73	0	116.86	2	-38.43	2	-33.38	2.35	-56.99
58	58	69.90	0.00	-0.19	172.73	0	116.86	2	-38.43	2	-33.38	2.35	-56.99
58	59	71.35	0.00	-0.19	173.00	0	117.04	2	-38.49	2	-33.43	2.35	-57.07
59	59	71.35	0.00	-0.19	173.00	0	117.04	2	-38.49	2	-33.43	2.35	-57.07
59	60	72.80	0.00	-0.19	173.27	0	117.23	2	-38.55	2	-33.49	2.35	-57.16
60	60	72.80	0.00	-0.19	173.27	0	117.23	2	-38.55	2	-33.49	2.35	-57.16
60	61	74.25	0.00	-0.19	173.54	0	117.41	2	-38.61	2	-33.54	2.35	-57.25
61	61	74.25	0.00	-0.19	173.54	0	114.58	2	-55.44	2	-48.15	2.35	-73.99
61	62	75.70	0.00	-0.19	173.81	0	114.75	2	-55.52	2	-48.22	2.35	-74.11
62	62	75.70	0.00	-0.19	173.81	0	114.75	2	-55.52	2	-48.22	2.35	-74.11
62	63	77.15	0.00	-0.19	174.08	0	114.93	2	-55.61	2	-48.30	2.35	-74.22
63	63	77.15	0.00	-0.19	174.08	0	114.93	2	-55.61	2	-48.30	2.35	-74.22
63	64	78.60	0.00	-0.19	174.35	0	115.11	2	-55.70	2	-48.37	2.35	-74.34
64	64	78.60	0.00	-0.19	174.35	0	115.11	2	-55.70	2	-48.37	2.35	-74.34
64	65	80.05	0.00	-0.19	174.62	0	115.29	2	-55.78	2	-48.45	2.35	-74.45
65	65	80.05	0.00	-0.19	174.62	0	115.29	2	-55.78	2	-48.45	2.35	-74.45
65	66	80.50	0.00	-0.19	174.70	0	115.34	2	-55.81	2	-48.47	2.35	-74.49
66	66	80.50	0.00	-0.19	174.70	0	115.34	2	-55.81	2	-48.47	2.35	-74.49
66	67	81.50	0.00	-0.19	174.89	0	115.47	2	-55.87	2	-48.52	2.35	-74.57
67	1067	81.50	0.00	0.45	174.89	0	115.47	2	-55.87	2	-48.52	2.35	-74.57
67	68	82.50	0.00	0.45	174.44	0	115.17	2	-55.73	2	-48.40	2.35	-74.37
68	68	82.50	0.00	0.45	174.44	0	115.17	2	-55.73	2	-48.40	2.35	-74.37
68	69	83.08	0.00	0.45	174.17	0	114.99	2	-55.64	2	-48.32	2.35	-74.26
69	69	83.08	0.00	0.45	174.17	0	114.99	2	-55.64	2	-48.32	2.35	-74.26
69	70	84.65	0.00	0.45	173.46	0	114.52	2	-55.41	2	-48.13	2.35	-73.96
70	70	84.65	0.00	0.45	173.46	0	114.52	2	-55.41	2	-48.13	2.35	-73.96
70	71	86.23	0.00	0.45	172.75	0	114.05	2	-55.19	2	-47.93	2.35	-73.65
71	71	86.23	0.00	0.45	172.75	0	114.05	2	-55.19	2	-47.93	2.35	-73.65
71	72	87.80	0.00	0.45	172.03	0	113.58	2	-54.96	2	-47.73	2.35	-73.35
72	72	87.80	0.00	0.45	172.03	0	113.58	2	-54.96	2	-47.73	2.35	-73.35
72	73	89.38	0.00	0.45	171.32	0	113.11	2	-54.73	2	-47.53	2.35	-73.04
73	73	89.38	0.00	0.45	171.32	0	115.91	2	-38.12	2	-33.11	2.35	-56.52
73	74	90.95	0.00	0.45	170.61	0	115.43	2	-37.96	2	-32.97	2.35	-56.29
74	74	90.95	0.00	0.45	170.61	0	115.43	2	-37.96	2	-32.97	2.35	-56.29
74	75	92.53	0.00	0.45	169.89	0	114.94	2	-37.80	2	-32.83	2.35	-56.05
75	75	92.53	0.00	0.45	169.89	0	114.94	2	-37.80	2	-32.83	2.35	-56.05
75	76	94.10	0.00	0.45	169.18	0	114.46	2	-37.64	2	-32.70	2.35	-55.81
76	76	94.10	0.00	0.45	169.18	0	114.46	2	-37.64	2	-32.70	2.35	-55.81
76	77	95.68	0.00	0.45	168.46	0	113.97	2	-37.48	2	-32.56	2.35	-55.58

CÁLCULO TENSIONAL

Hipótesis de cálculo:
GRAD.Tinf

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c. ec.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	0.45	168.46	0	113.97	2	-37.48	2	-32.56	2.35	-55.58
77	78	97.25	0.00	0.45	167.75	0	113.49	2	-37.33	2	-32.42	2.35	-55.34
78	78	97.25	0.00	0.45	167.75	0	113.49	2	-37.33	2	-32.42	2.35	-55.34
78	79	98.83	0.00	0.45	167.04	0	113.01	2	-37.17	2	-32.28	2.35	-55.11
79	79	98.83	0.00	0.45	167.04	0	113.01	2	-37.17	2	-32.28	2.35	-55.11
79	80	100.40	0.00	0.45	166.32	0	112.52	2	-37.01	2	-32.14	2.35	-54.87
80	80	100.40	0.00	0.45	166.32	0	112.52	2	-37.01	2	-32.14	2.35	-54.87
80	81	101.98	0.00	0.45	165.61	0	112.04	2	-36.85	2	-32.01	2.35	-54.64
81	81	101.98	0.00	0.45	165.61	0	112.04	2	-36.85	2	-32.01	2.35	-54.64
81	82	103.55	0.00	0.45	164.89	0	111.56	2	-36.69	2	-31.87	2.35	-54.40
82	82	103.55	0.00	0.45	164.89	0	111.56	2	-36.69	2	-31.87	2.35	-54.40
82	83	105.13	0.00	0.45	164.18	0	111.08	2	-36.53	2	-31.73	2.35	-54.16
83	83	105.13	0.00	0.45	164.18	0	108.40	2	-52.45	2	-45.55	2.35	-70.00
83	84	106.70	0.00	0.45	163.47	0	107.93	2	-52.22	2	-45.36	2.35	-69.70
84	84	106.70	0.00	0.45	163.47	0	107.93	2	-52.22	2	-45.36	2.35	-69.70
84	85	108.28	0.00	0.45	162.75	0	107.45	2	-51.99	2	-45.16	2.35	-69.39
85	85	108.28	0.00	0.45	162.75	0	107.45	2	-51.99	2	-45.16	2.35	-69.39
85	86	109.85	0.00	0.45	162.04	0	106.98	2	-51.76	2	-44.96	2.35	-69.09
86	86	109.85	0.00	0.45	162.04	0	106.98	2	-51.76	2	-44.96	2.35	-69.09
86	87	111.43	0.00	0.45	161.32	0	106.51	2	-51.53	2	-44.76	2.35	-68.78
87	87	111.43	0.00	0.45	161.32	0	106.51	2	-51.53	2	-44.76	2.35	-68.78
87	88	112.00	0.00	0.45	161.06	0	106.34	2	-51.45	2	-44.69	2.35	-68.67
88	88	112.00	0.00	0.45	161.06	0	106.34	2	-51.45	2	-44.69	2.35	-68.67
88	89	113.00	0.00	0.45	160.61	0	106.04	2	-51.31	2	-44.56	2.35	-68.48
89	1089	113.00	0.00	-1.47	160.61	0	106.04	2	-51.31	2	-44.56	2.35	-68.48
89	90	114.00	0.00	-1.47	162.09	0	107.02	2	-51.78	2	-44.97	2.35	-69.11
90	90	114.00	0.00	-1.47	162.09	0	107.02	2	-51.78	2	-44.97	2.35	-69.11
90	91	114.58	0.00	-1.47	162.93	0	107.57	2	-52.05	2	-45.21	2.35	-69.47
91	91	114.58	0.00	-1.47	162.93	0	107.57	2	-52.05	2	-45.21	2.35	-69.47
91	92	116.15	0.00	-1.47	165.25	0	109.10	2	-52.79	2	-45.85	2.35	-70.46
92	92	116.15	0.00	-1.47	165.25	0	109.10	2	-52.79	2	-45.85	2.35	-70.46
92	93	117.73	0.00	-1.47	167.58	0	110.64	2	-53.53	2	-46.50	2.35	-71.45
93	93	117.73	0.00	-1.47	167.58	0	110.64	2	-53.53	2	-46.50	2.35	-71.45
93	94	119.30	0.00	-1.47	169.90	0	112.17	2	-54.28	2	-47.14	2.35	-72.44
94	94	119.30	-0.01	-1.47	169.90	0	112.17	2	-54.28	2	-47.14	2.35	-72.44
94	95	120.88	-0.01	-1.47	172.22	0	113.70	2	-55.02	2	-47.79	2.35	-73.43
95	95	120.88	-0.01	-1.47	172.22	0	116.51	2	-38.32	2	-33.29	2.35	-56.82
95	96	122.45	-0.01	-1.47	174.54	0	118.08	2	-38.84	2	-33.73	2.35	-57.59
96	96	122.45	0.00	-1.47	174.54	0	118.08	2	-38.84	2	-33.73	2.35	-57.58
96	97	124.03	0.00	-1.47	176.86	0	119.65	2	-39.35	2	-34.18	2.35	-58.35
97	97	124.03	0.00	-1.47	176.86	0	119.65	2	-39.35	2	-34.18	2.35	-58.35
97	98	125.60	0.00	-1.47	179.18	0	121.22	2	-39.87	2	-34.63	2.35	-59.11
98	98	125.60	0.00	-1.47	179.18	0	121.22	2	-39.87	2	-34.63	2.35	-59.11
98	99	127.18	0.00	-1.47	181.51	0	122.80	2	-40.39	2	-35.08	2.35	-59.88
99	99	127.18	0.00	-1.47	181.51	0	122.80	2	-40.39	2	-35.08	2.35	-59.88
0	100	128.75	0.00	-1.47	183.83	0	124.37	2	-40.90	2	-35.53	2.35	-60.65
100	100	128.75	0.00	-1.47	183.83	0	124.37	2	-40.90	2	-35.53	2.35	-60.65
100	101	130.33	0.00	-1.47	186.15	0	125.94	2	-41.42	2	-35.97	2.35	-61.41
101	101	130.33	0.00	-1.47	186.15	0	125.94	2	-41.42	2	-35.97	2.35	-61.41
101	102	131.90	0.00	-1.47	188.47	0	127.51	2	-41.94	2	-36.42	2.35	-62.18
102	102	131.90	0.00	-1.47	188.47	0	127.51	2	-41.94	2	-36.42	2.35	-62.18
102	103	133.48	0.00	-1.47	190.79	0	129.08	2	-42.45	2	-36.87	2.35	-62.94
103	103	133.48	0.00	-1.47	190.79	0	129.08	2	-42.45	2	-36.87	2.35	-62.94
103	104	135.05	0.00	-1.47	193.12	0	130.66	2	-42.97	2	-37.32	2.35	-63.71
104	104	135.05	0.01	-1.47	193.12	0	130.66	2	-42.97	2	-37.32	2.35	-63.71
104	105	136.63	0.01	-1.47	195.44	0	132.23	2	-43.48	2	-37.77	2.35	-64.47
105	105	136.63	0.01	-1.47	195.44	0	129.04	2	-62.43	2	-54.22	2.35	-83.33
105	106	138.20	0.01	-1.47	197.76	0	130.57	2	-63.17	2	-54.87	2.35	-84.31
106	106	138.20	0.00	-1.47	197.76	0	130.57	2	-63.18	2	-54.87	2.35	-84.32
106	107	139.78	0.00	-1.47	200.08	0	132.10	2	-63.92	2	-55.51	2.35	-85.31
107	107	139.78	0.00	-1.47	200.08	0	132.10	2	-63.92	2	-55.51	2.35	-85.31
107	108	141.35	0.00	-1.47	202.40	0	133.63	2	-64.66	2	-56.16	2.35	-86.30
108	108	141.35	0.00	-1.47	202.40	0	133.63	2	-64.66	2	-56.16	2.35	-86.30
108	109	142.93	0.00	-1.47	204.72	0	135.16	2	-65.40	2	-56.80	2.35	-87.28
109	109	142.93	0.00	-1.47	204.72	0	135.16	2	-65.40	2	-56.80	2.35	-87.28
109	110	143.50	0.00	-1.47	205.57	0	135.72	2	-65.67	2	-57.04	2.35	-87.65
110	110	143.50	0.00	-1.47	205.57	0	135.72	2	-65.67	2	-57.04	2.35	-87.65
110	111	144.50	0.00	-1.47	207.05	0	136.70	2	-66.14	2	-57.45	2.35	-88.28
111	1111	144.50	0.00	8.81	207.05	0	136.70	2	-66.14	2	-57.45	2.35	-88.28
111	112	145.50	0.00	8.81	198.23	0	130.88	2	-63.33	2	-55.00	2.35	-84.52
112	112	145.50	0.00	8.81	198.23	0	130.88	2	-63.33	2	-55.00	2.35	-84.52
112	113	145.68	0.00	8.81	196.69	0	129.86	2	-62.83	2	-54.57	2.35	-83.86
113	113	145.68	0.00	8.81	196.69	0	129.86	2	-62.83	2	-54.57	2.35	-83.86
113	114	146.85	0.00	8.81	186.34	0	123.03	2	-59.53	2	-51.70	2.35	-79.45
114	114	146.85	0.00	8.81	186.34	0	123.03	2	-59.53	2	-51.70	2.35	-79.45
114	115	148.03	0.00	8.81	175.99	0	116.19	2	-56.22	2	-48.83	2.35	-75.04

CÁLCULO TENSIONAL

ipótesis de cálculo:
RAD.Tinf

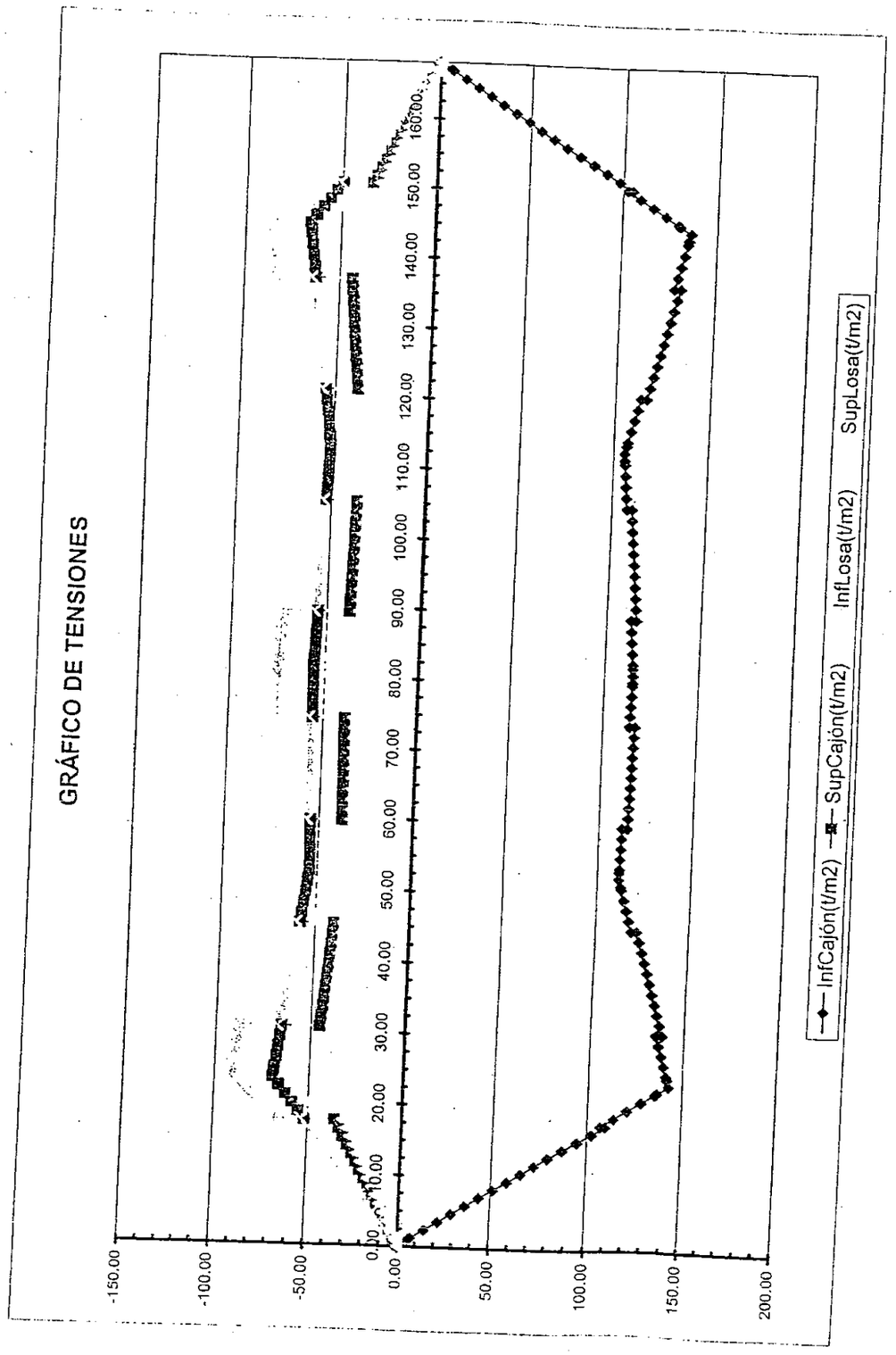
Gradientetermico). Tensiones a tiempo Tinf

GRAD

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Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	8.81	175.99	0	116.19	2	-56.22	2	-48.83	2.35	-75.04
115	116	149.20	0.00	8.81	165.64	0	109.36	2	-52.91	2	-45.96	2.35	-70.62
116	116	149.20	0.10	8.81	165.64	0	109.39	2	-52.88	2	-45.93	2.35	-70.60
116	117	150.38	0.10	8.81	155.28	0	102.55	2	-49.57	2	-43.06	2.35	-66.18
117	117	150.38	0.10	8.81	155.28	0	105.09	2	-34.52	2	-29.98	2.35	-51.20
117	118	151.55	0.10	8.81	144.93	0	98.09	2	-32.22	2	-27.98	2.35	-47.79
118	118	151.55	0.00	8.81	144.93	0	98.05	2	-32.25	2	-28.01	2.35	-47.81
118	119	152.73	0.00	8.81	134.58	0	91.05	2	-29.95	2	-26.01	2.35	-44.40
119	119	152.73	0.00	8.81	134.58	0	91.05	2	-29.95	2	-26.01	2.35	-44.40
119	120	153.90	0.00	8.81	124.23	0	84.05	2	-27.64	2	-24.01	2.35	-40.98
120	120	153.90	0.00	8.81	124.23	0	84.05	2	-27.64	2	-24.01	2.35	-40.98
120	121	155.08	0.00	8.81	113.88	0	77.05	2	-25.34	2	-22.01	2.35	-37.57
121	121	155.08	0.00	8.81	113.88	0	77.05	2	-25.34	2	-22.01	2.35	-37.57
121	122	156.25	0.00	8.81	103.52	0	70.04	2	-23.03	2	-20.01	2.35	-34.15
122	122	156.25	0.00	8.81	103.52	0	70.04	2	-23.03	2	-20.01	2.35	-34.15
122	123	157.43	0.00	8.81	93.17	0	63.03	2	-20.73	2	-18.01	2.35	-30.74
123	123	157.43	0.00	8.81	93.17	0	63.03	2	-20.73	2	-18.01	2.35	-30.74
123	124	158.60	0.00	8.81	82.82	0	56.03	2	-18.43	2	-16.01	2.35	-27.32
124	124	158.60	0.00	8.81	82.82	0	56.03	2	-18.43	2	-16.01	2.35	-27.32
124	125	159.78	0.00	8.81	72.47	0	49.03	2	-16.13	2	-14.01	2.35	-23.91
125	125	159.78	0.00	8.81	72.47	0	49.03	2	-16.13	2	-14.01	2.35	-23.91
125	126	160.95	0.00	8.81	62.11	0	42.02	2	-13.82	2	-12.00	2.35	-20.49
126	126	160.95	0.00	8.81	62.11	0	42.02	2	-13.82	2	-12.00	2.35	-20.49
126	127	162.13	0.00	8.81	51.76	0	35.02	2	-11.52	2	-10.00	2.35	-17.08
127	127	162.13	0.00	8.81	51.76	0	35.02	2	-11.52	2	-10.00	2.35	-17.08
127	128	163.30	0.00	8.81	41.41	0	28.02	2	-9.21	2	-8.00	2.35	-13.66
128	128	163.30	0.00	8.81	41.41	0	28.02	2	-9.21	2	-8.00	2.35	-13.66
128	129	164.48	0.00	8.81	31.06	0	21.01	2	-6.91	2	-6.00	2.35	-10.25
129	129	164.48	0.00	8.81	31.06	0	21.01	2	-6.91	2	-6.00	2.35	-10.25
129	130	165.65	0.00	8.81	20.70	0	14.00	2	-4.61	2	-4.00	2.35	-6.83
130	130	165.65	0.00	8.81	20.70	0	14.00	2	-4.61	2	-4.00	2.35	-6.83
130	131	166.83	0.00	8.81	10.35	0	7.00	2	-2.30	2	-2.00	2.35	-3.41
131	131	166.83	0.00	8.81	10.35	0	7.00	2	-2.30	2	-2.00	2.35	-3.41
131	132	167.00	0.00	8.81	8.81	0	5.96	2	-1.96	2	-1.70	2.35	-2.91
132	132	167.00	0.00	8.81	8.81	0	5.96	2	-1.96	2	-1.70	2.35	-2.91
132	133	168.00	0.00	8.81	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

Programa DINTEL IDEAM S.A.
GRAD.Tinf



hsim_tinf.xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:
IPF75B.ENV_TREN_GENERICO.MZ+.Tinf
Envolvente de tren de cargas plano genérico.MZ+). Tensiones a tiempo Tinf
1. IIPF75B.MZ+
Def exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-119.65	124.65	0	84.33	2	-27.74	2	-24.09	2.35	-41.12
2	2	1.00	0.00	-119.65	124.65	0	84.33	2	-27.74	2	-24.09	2.35	-41.12
2	3	1.18	0.00	-117.52	144.99	0	98.09	2	-32.26	2	-28.02	2.35	-47.83
3	3	1.18	0.00	-117.52	144.99	0	98.09	2	-32.26	2	-28.02	2.35	-47.83
3	4	2.35	0.00	-103.81	271.57	0	183.73	2	-60.43	2	-52.48	2.35	-89.59
4	4	2.35	0.00	-103.81	271.57	0	183.73	2	-60.43	2	-52.48	2.35	-89.59
4	5	3.53	0.00	-90.16	379.93	0	257.04	2	-84.54	2	-73.42	2.35	-125.34
5	5	3.53	0.00	-90.16	379.93	0	257.04	2	-84.54	2	-73.42	2.35	-125.34
5	6	4.70	0.00	-76.33	473.90	0	320.62	2	-105.45	2	-91.59	2.35	-156.34
6	6	4.70	0.00	-76.33	473.90	0	320.62	2	-105.45	2	-91.59	2.35	-156.34
6	7	5.88	0.00	-62.36	552.49	0	373.79	2	-122.94	2	-106.77	2.35	-182.27
7	7	5.88	0.00	-62.36	552.49	0	373.79	2	-122.94	2	-106.77	2.35	-182.27
7	8	7.05	0.00	-41.81	613.77	0	415.25	2	-136.57	2	-118.62	2.35	-202.49
8	8	7.05	0.00	-41.81	613.77	0	415.25	2	-136.57	2	-118.62	2.35	-202.49
8	9	8.23	0.00	-28.16	657.98	0	445.16	2	-146.41	2	-127.16	2.35	-217.07
9	9	8.23	0.00	-28.16	657.98	0	445.16	2	-146.41	2	-127.16	2.35	-217.07
9	10	9.40	0.00	-14.33	686.93	0	464.74	2	-152.85	2	-132.75	2.35	-226.62
10	10	9.40	0.00	-14.33	686.93	0	464.74	2	-152.85	2	-132.75	2.35	-226.62
10	11	10.58	0.00	-7.36	700.26	0	473.76	2	-155.82	2	-135.33	2.35	-231.02
11	11	10.58	0.00	-7.36	700.26	0	473.76	2	-155.82	2	-135.33	2.35	-231.02
11	12	11.75	0.00	12.69	695.12	0	470.28	2	-154.67	2	-134.34	2.35	-229.33
12	12	11.75	0.00	12.69	695.12	0	470.28	2	-154.67	2	-134.34	2.35	-229.33
12	13	12.93	0.00	20.92	675.29	0	456.87	2	-150.26	2	-130.51	2.35	-222.78
13	13	12.93	0.00	20.92	675.29	0	456.87	2	-150.26	2	-130.51	2.35	-222.78
13	14	14.10	0.00	40.17	639.07	0	432.36	2	-142.20	2	-123.51	2.35	-210.83
14	14	14.10	0.00	40.17	639.07	0	432.36	2	-142.20	2	-123.51	2.35	-210.83
14	15	15.28	0.00	47.94	588.26	0	397.99	2	-130.89	2	-113.69	2.35	-194.07
15	15	15.28	0.00	47.94	588.26	0	397.99	2	-130.89	2	-113.69	2.35	-194.07
15	16	16.45	0.00	61.59	520.16	0	351.91	2	-115.74	2	-100.53	2.35	-171.61
16	16	16.45	-0.73	61.59	520.16	0	351.67	2	-115.98	2	-100.73	2.35	-171.81
16	17	17.63	-0.89	75.41	435.34	0	294.24	2	-97.16	2	-84.39	2.35	-143.88
17	17	17.63	-0.89	75.41	435.34	0	287.15	2	-139.34	2	-121.02	2.35	-185.85
17	18	18.80	-1.05	89.39	333.45	0	219.83	2	-106.84	2	-92.80	2.35	-142.45
18	18	18.80	0.00	89.39	333.45	0	220.15	2	-106.52	2	-92.52	2.35	-142.17
18	19	19.98	0.00	97.38	218.44	0	144.22	2	-69.78	2	-60.61	2.35	-93.13
19	19	19.98	0.00	97.38	218.44	0	144.22	2	-69.78	2	-60.61	2.35	-93.13
19	20	21.15	0.00	43.85	142.74	0	94.24	2	-45.60	2	-39.60	2.35	-60.86
20	20	21.15	0.00	43.85	142.74	0	94.24	2	-45.60	2	-39.60	2.35	-60.86
20	21	22.33	0.00	17.27	111.42	0	73.56	2	-35.59	2	-30.91	2.35	-47.51
21	21	22.33	0.00	17.27	111.42	0	73.56	2	-35.59	2	-30.91	2.35	-47.51
21	22	22.50	0.00	8.24	109.50	0	72.30	2	-34.98	2	-30.38	2.35	-46.69
22	22	22.50	0.00	8.24	109.50	0	72.30	2	-34.98	2	-30.38	2.35	-46.69
22	23	23.50	0.00	-4.57	107.51	0	70.98	2	-34.34	2	-29.83	2.35	-45.84
23	1023	23.50	0.00	19.77	107.51	0	70.98	2	-34.34	2	-29.83	2.35	-45.84
23	24	24.50	0.00	1.79	93.28	0	61.59	2	-29.80	2	-25.88	2.35	-39.77
24	24	24.50	0.00	1.79	93.28	0	61.59	2	-29.80	2	-25.88	2.35	-39.77
24	25	24.95	0.00	-6.79	91.82	0	60.62	2	-29.33	2	-25.48	2.35	-39.15
25	25	24.95	0.00	-6.79	91.82	0	60.62	2	-29.33	2	-25.48	2.35	-39.15
25	26	26.40	0.00	-27.38	113.40	0	74.87	2	-36.23	2	-31.46	2.35	-48.35
26	26	26.40	0.00	-27.38	113.40	0	74.87	2	-36.23	2	-31.46	2.35	-48.35
26	27	27.85	0.00	-72.68	199.83	0	131.93	2	-63.84	2	-55.44	2.35	-85.20
27	27	27.85	0.00	-72.68	199.83	0	131.93	2	-63.84	2	-55.44	2.35	-85.20
27	28	29.30	0.00	-104.70	333.01	0	219.86	2	-106.38	2	-92.40	2.35	-141.98
28	28	29.30	-1.01	-104.70	333.01	0	219.55	2	-106.69	2	-92.66	2.35	-142.25
28	29	30.75	-0.83	-87.46	476.74	0	314.50	2	-152.55	2	-132.50	2.35	-203.48
29	29	30.75	-0.83	-87.46	476.74	0	322.26	2	-106.35	2	-92.37	2.35	-157.52
29	30	32.20	-0.67	-70.00	596.14	0	403.10	2	-132.87	2	-115.40	2.35	-196.86
30	30	32.20	0.00	-70.00	596.14	0	403.32	2	-132.65	2	-115.21	2.35	-196.67
30	31	33.65	0.00	-53.70	689.17	0	466.26	2	-153.35	2	-133.19	2.35	-227.36
31	31	33.65	0.00	-53.70	689.17	0	466.26	2	-153.35	2	-133.19	2.35	-227.36
31	32	35.10	0.00	-42.90	759.12	0	513.58	2	-168.91	2	-146.71	2.35	-250.44
32	32	35.10	0.00	-42.90	759.12	0	513.58	2	-168.91	2	-146.71	2.35	-250.44
32	33	36.55	0.00	-19.00	804.61	0	544.36	2	-179.04	2	-155.50	2.35	-265.45
33	33	36.55	0.00	-19.00	804.61	0	544.36	2	-179.04	2	-155.50	2.35	-265.45
33	34	38.00	0.00	-8.20	823.00	0	556.80	2	-183.13	2	-159.05	2.35	-271.51
34	34	38.00	0.00	-8.20	823.00	0	556.80	2	-183.13	2	-159.05	2.35	-271.51
34	35	39.45	0.00	8.10	820.42	0	555.05	2	-182.55	2	-158.55	2.35	-270.66
35	35	39.45	0.00	8.10	820.42	0	555.05	2	-182.55	2	-158.55	2.35	-270.66
35	36	40.90	0.00	32.00	790.69	0	534.94	2	-175.94	2	-152.81	2.35	-260.86
36	36	40.90	0.00	32.00	790.69	0	534.94	2	-175.94	2	-152.81	2.35	-260.86
36	37	42.35	0.00	42.80	736.59	0	498.34	2	-163.90	2	-142.35	2.35	-243.01
37	37	42.35	0.00	42.80	736.59	0	498.34	2	-163.90	2	-142.35	2.35	-243.01
37	38	43.80	0.00	59.10	659.34	0	446.08	2	-146.71	2	-127.42	2.35	-217.52
38	38	43.80	-0.56	59.10	659.34	0	445.89	2	-146.89	2	-127.58	2.35	-217.68
38	39	45.25	-0.73	76.57	555.71	0	375.72	2	-123.89	2	-107.60	2.35	-183.54

CÁLCULO TENSIONAL

Hipótesis de cálculo:
IPF75B.ENV_TREN_GENERICO.MZ+.Tinf
Envolvente de tren de cargas plano genérico.MZ+). Tensiones a tiempo Tinf

'IPF75B MZ+
exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-0.73	76.57	555.71	0	366.67	2	-177.75	2	-154.38	2.35	-237.13
39	40	46.70	-0.91	93.80	427.79	0	282.16	2	-136.94	2	-118.94	2.35	-182.64
40	40	46.70	0.00	93.80	427.79	0	282.44	2	-136.66	2	-118.69	2.35	-182.39
40	41	48.15	0.00	83.29	290.23	0	191.62	2	-92.71	2	-80.53	2.35	-123.74
41	41	48.15	0.00	83.29	290.23	0	191.62	2	-92.71	2	-80.53	2.35	-123.74
41	42	49.60	0.00	40.15	198.38	0	130.98	2	-63.37	2	-55.04	2.35	-84.58
42	42	49.60	0.00	40.15	198.38	0	130.98	2	-63.37	2	-55.04	2.35	-84.58
42	43	51.05	0.00	9.83	167.93	0	110.87	2	-53.65	2	-46.59	2.35	-71.60
43	43	51.05	0.00	9.83	167.93	0	110.87	2	-53.65	2	-46.59	2.35	-71.60
43	44	51.50	0.00	1.29	167.20	0	110.39	2	-53.41	2	-46.39	2.35	-71.29
44	44	51.50	0.00	1.29	167.20	0	110.39	2	-53.41	2	-46.39	2.35	-71.29
44	45	52.50	0.00	-16.64	177.80	0	117.39	2	-56.80	2	-49.33	2.35	-75.81
45	1045	52.50	0.00	25.12	177.80	0	117.39	2	-56.80	2	-49.33	2.35	-75.81
45	46	53.50	0.00	7.15	158.58	0	104.70	2	-50.66	2	-44.00	2.35	-67.61
46	46	53.50	0.00	7.15	158.58	0	104.70	2	-50.66	2	-44.00	2.35	-67.61
46	47	53.95	0.00	-1.42	155.30	0	102.53	2	-49.61	2	-43.09	2.35	-66.21
47	47	53.95	0.00	-1.42	155.30	0	102.53	2	-49.61	2	-43.09	2.35	-66.21
47	48	55.40	0.00	-34.98	174.04	0	114.91	2	-55.60	2	-48.29	2.35	-74.20
48	48	55.40	0.00	-34.98	174.04	0	114.91	2	-55.60	2	-48.29	2.35	-74.20
48	49	56.85	0.00	-73.81	262.20	0	173.11	2	-83.76	2	-72.75	2.35	-111.79
49	49	56.85	0.00	-73.81	262.20	0	173.11	2	-83.76	2	-72.75	2.35	-111.79
49	50	58.30	0.00	-101.75	398.91	0	263.37	2	-127.43	2	-110.68	2.35	-170.08
50	50	58.30	-0.98	-101.74	398.91	0	263.07	2	-127.73	2	-110.94	2.35	-170.34
50	51	59.75	-0.81	-84.49	538.32	0	355.17	2	-172.22	2	-149.58	2.35	-229.73
51	51	59.75	-0.81	-84.49	538.32	0	363.93	2	-120.05	2	-104.27	2.35	-177.83
51	52	61.20	-0.64	-67.04	653.52	0	441.93	2	-145.63	2	-126.48	2.35	-215.78
52	52	61.20	0.00	-67.04	653.52	0	442.14	2	-145.42	2	-126.30	2.35	-215.60
52	53	62.65	0.00	-50.74	742.24	0	502.16	2	-165.16	2	-143.44	2.35	-244.87
53	53	62.65	0.00	-50.74	742.24	0	502.16	2	-165.16	2	-143.44	2.35	-244.87
53	54	64.10	0.00	-39.95	807.91	0	546.59	2	-179.77	2	-156.14	2.35	-266.54
54	54	64.10	0.00	-39.95	807.91	0	546.59	2	-179.77	2	-156.14	2.35	-266.54
54	55	65.55	0.00	-16.05	849.14	0	574.48	2	-188.94	2	-164.10	2.35	-280.14
55	55	65.55	0.00	-16.05	849.14	0	574.48	2	-188.94	2	-164.10	2.35	-280.14
55	56	67.00	0.00	-5.25	863.23	0	584.02	2	-192.08	2	-166.83	2.35	-284.79
56	56	67.00	0.00	-5.25	863.23	0	584.02	2	-192.08	2	-166.83	2.35	-284.79
56	57	68.45	0.00	11.05	856.42	0	579.41	2	-190.56	2	-165.51	2.35	-282.54
57	57	68.45	0.00	11.05	856.42	0	579.41	2	-190.56	2	-165.51	2.35	-282.54
57	58	69.90	0.00	34.95	822.40	0	556.39	2	-182.99	2	-158.94	2.35	-271.32
58	58	69.90	0.00	34.95	822.40	0	556.39	2	-182.99	2	-158.94	2.35	-271.32
58	59	71.35	0.00	45.75	764.03	0	516.90	2	-170.01	2	-147.66	2.35	-252.06
59	59	71.35	0.00	45.75	764.03	0	516.90	2	-170.01	2	-147.66	2.35	-252.06
59	60	72.80	0.00	62.05	682.53	0	461.76	2	-151.87	2	-131.90	2.35	-225.17
60	60	72.80	-0.59	62.05	682.53	0	461.57	2	-152.06	2	-132.07	2.35	-225.34
60	61	74.25	-0.77	79.51	574.58	0	388.48	2	-128.10	2	-111.26	2.35	-189.78
61	61	74.25	-0.77	79.51	574.58	0	379.12	2	-183.79	2	-159.63	2.35	-245.18
1	62	75.70	-0.93	96.75	442.43	0	291.82	2	-141.62	2	-123.00	2.35	-188.88
62	62	75.70	0.00	96.75	442.43	0	292.11	2	-141.34	2	-122.75	2.35	-188.63
62	63	77.15	0.00	84.38	297.81	0	196.62	2	-95.14	2	-82.63	2.35	-126.97
63	63	77.15	0.00	84.38	297.81	0	196.62	2	-95.14	2	-82.63	2.35	-126.97
63	64	78.60	0.00	36.92	198.73	0	131.21	2	-63.48	2	-55.14	2.35	-84.73
64	64	78.60	0.00	36.92	198.73	0	131.21	2	-63.48	2	-55.14	2.35	-84.73
64	65	80.05	0.00	6.65	168.70	0	111.38	2	-53.89	2	-46.81	2.35	-71.93
65	65	80.05	0.00	6.65	168.70	0	111.38	2	-53.89	2	-46.81	2.35	-71.93
65	66	80.50	0.00	-1.88	168.90	0	111.51	2	-53.96	2	-46.86	2.35	-72.01
66	66	80.50	0.00	-1.88	168.90	0	111.51	2	-53.96	2	-46.86	2.35	-72.01
66	67	81.50	0.00	-19.81	182.32	0	120.37	2	-58.24	2	-50.59	2.35	-77.73
67	1067	81.50	0.00	21.88	182.32	0	120.37	2	-58.24	2	-50.59	2.35	-77.73
67	68	82.50	0.00	1.49	165.51	0	109.27	2	-52.87	2	-45.92	2.35	-70.57
68	68	82.50	0.00	1.49	165.51	0	109.27	2	-52.87	2	-45.92	2.35	-70.57
68	69	83.08	0.00	-9.32	164.44	0	108.57	2	-52.53	2	-45.62	2.35	-70.11
69	69	83.08	0.00	-9.32	164.44	0	108.57	2	-52.53	2	-45.62	2.35	-70.11
69	70	84.65	0.00	-42.62	196.52	0	129.75	2	-62.78	2	-54.53	2.35	-83.79
70	70	84.65	0.00	-42.62	196.52	0	129.75	2	-62.78	2	-54.53	2.35	-83.79
70	71	86.23	0.00	-91.93	306.52	0	202.37	2	-97.92	2	-85.05	2.35	-130.69
71	71	86.23	0.00	-91.93	306.52	0	202.37	2	-97.92	2	-85.05	2.35	-130.69
71	72	87.80	0.00	-114.29	472.13	0	311.71	2	-150.82	2	-130.99	2.35	-201.30
72	72	87.80	-1.00	-114.28	472.13	0	311.41	2	-151.13	2	-131.26	2.35	-201.56
72	73	89.38	-0.85	-95.69	631.32	0	416.56	2	-201.94	2	-175.39	2.35	-269.40
73	73	89.38	-0.85	-95.69	631.32	0	426.84	2	-140.76	2	-122.25	2.35	-208.52
73	74	90.95	-0.63	-70.67	764.23	0	515.83	2	-170.26	2	-147.87	2.35	-252.31
74	74	90.95	0.00	-70.68	764.23	0	517.04	2	-170.05	2	-147.69	2.35	-252.13
4	75	92.53	0.00	-52.04	866.62	0	586.31	2	-192.83	2	-167.48	2.35	-285.91
75	75	92.53	0.00	-52.04	866.62	0	586.31	2	-192.83	2	-167.48	2.35	-285.91
75	76	94.10	0.00	-40.56	938.91	0	635.22	2	-208.92	2	-181.45	2.35	-309.75
76	76	94.10	0.00	-40.56	938.91	0	635.22	2	-208.92	2	-181.45	2.35	-309.75
76	77	95.68	0.00	-22.05	983.50	0	665.39	2	-218.84	2	-190.07	2.35	-324.47

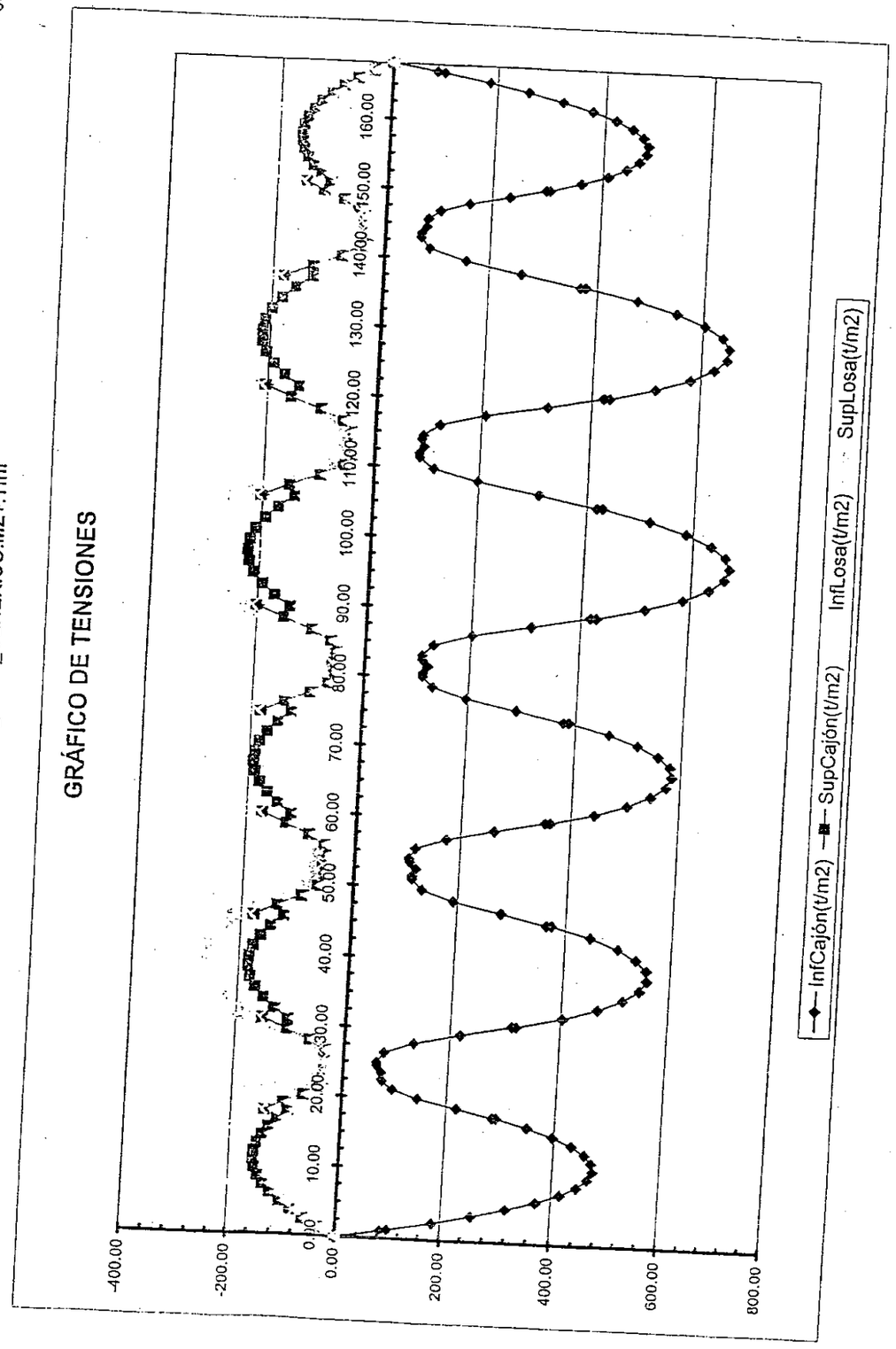
CÁLCULO TENSIONAL
Hipótesis de cálculo:
IPF75B.ENV_TREN_GENERICO.MZ+.Tinf
Envolvente de tren de cargas plano genérico.MZ+). Tensiones a tiempo Tinf
'IPF75B MZ+
ref exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-22.05	983.50	0	665.39	2	-218.84	2	-190.07	2.35	-324.47
77	78	97.25	0.00	-3.07	996.63	0	674.27	2	-221.76	2	-192.61	2.35	-328.80
78	78	97.25	0.00	-3.07	996.63	0	674.27	2	-221.76	2	-192.61	2.35	-328.80
78	79	98.83	0.00	21.69	984.07	0	665.77	2	-218.97	2	-190.18	2.35	-324.65
79	79	98.83	0.00	21.69	984.07	0	665.77	2	-218.97	2	-190.18	2.35	-324.65
79	80	100.40	0.00	40.20	940.05	0	635.99	2	-209.17	2	-181.67	2.35	-310.13
80	80	100.40	0.00	40.20	940.05	0	635.99	2	-209.17	2	-181.67	2.35	-310.13
80	81	101.98	0.00	51.68	868.33	0	587.47	2	-193.21	2	-167.81	2.35	-286.47
81	81	101.98	0.00	51.68	868.33	0	587.47	2	-193.21	2	-167.81	2.35	-286.47
81	82	103.55	0.00	70.32	766.51	0	518.58	2	-170.56	2	-148.13	2.35	-252.88
82	82	103.55	-0.62	70.32	766.51	0	518.38	2	-170.76	2	-148.31	2.35	-253.06
82	83	105.13	-0.85	95.34	634.13	0	428.74	2	-141.38	2	-122.79	2.35	-209.45
83	83	105.13	-0.85	95.34	634.13	0	418.41	2	-202.84	2	-176.17	2.35	-270.59
83	84	106.70	-1.00	113.93	475.54	0	313.66	2	-152.22	2	-132.21	2.35	-203.02
84	84	106.70	0.00	113.93	475.54	0	313.97	2	-151.91	2	-131.94	2.35	-202.75
84	85	108.28	0.00	103.88	300.23	0	198.22	2	-95.91	2	-83.30	2.35	-128.01
85	85	108.28	0.00	103.88	300.23	0	198.22	2	-95.91	2	-83.30	2.35	-128.01
85	86	109.85	0.00	45.31	171.64	0	113.32	2	-54.83	2	-47.62	2.35	-73.18
86	86	109.85	0.00	45.31	171.64	0	113.32	2	-54.83	2	-47.62	2.35	-73.18
86	87	111.43	0.00	12.36	129.72	0	85.65	2	-41.44	2	-35.99	2.35	-55.31
87	87	111.43	0.00	12.36	129.72	0	85.65	2	-41.44	2	-35.99	2.35	-55.31
87	88	112.00	0.00	1.99	128.53	0	84.86	2	-41.06	2	-35.66	2.35	-54.80
88	88	112.00	0.00	1.99	128.53	0	84.86	2	-41.06	2	-35.66	2.35	-54.80
88	89	113.00	0.00	-18.36	141.37	0	93.34	2	-45.16	2	-39.22	2.35	-60.27
89	1089	113.00	0.00	13.49	141.37	0	93.34	2	-45.16	2	-39.22	2.35	-60.27
89	90	114.00	0.00	-6.84	133.43	0	88.09	2	-42.62	2	-37.02	2.35	-56.89
90	90	114.00	0.00	-6.84	133.43	0	88.09	2	-42.62	2	-37.02	2.35	-56.89
90	91	114.58	0.00	-15.24	137.42	0	90.73	2	-43.90	2	-38.13	2.35	-58.59
91	91	114.58	0.00	-15.24	137.42	0	90.73	2	-43.90	2	-38.13	2.35	-58.59
91	92	116.15	0.00	-48.03	184.15	0	121.58	2	-58.83	2	-51.09	2.35	-78.51
92	92	116.15	0.00	-48.03	184.15	0	121.58	2	-58.83	2	-51.09	2.35	-78.51
92	93	117.73	0.00	-106.11	315.07	0	208.02	2	-100.65	2	-87.42	2.35	-134.33
93	93	117.73	0.00	-106.11	315.07	0	208.02	2	-100.65	2	-87.42	2.35	-134.33
93	94	119.30	0.00	-109.24	488.23	0	322.34	2	-155.97	2	-135.46	2.35	-208.16
94	94	119.30	-0.96	-109.24	488.23	0	322.05	2	-156.26	2	-135.72	2.35	-208.42
94	95	120.88	-0.81	-90.66	639.47	0	421.95	2	-204.53	2	-177.64	2.35	-272.86
95	95	120.88	-0.81	-90.66	639.47	0	432.37	2	-142.56	2	-123.81	2.35	-211.20
95	96	122.45	-0.57	-65.63	764.46	0	517.01	2	-170.29	2	-147.90	2.35	-252.36
96	96	122.45	0.00	-65.63	764.46	0	517.19	2	-170.10	2	-147.74	2.35	-252.20
96	97	124.03	0.00	-47.00	858.89	0	581.08	2	-191.11	2	-165.99	2.35	-283.36
97	97	124.03	0.00	-47.00	858.89	0	581.08	2	-191.11	2	-165.99	2.35	-283.36
97	98	125.60	0.00	-35.51	923.26	0	624.63	2	-205.44	2	-178.43	2.35	-304.59
98	98	125.60	0.00	-35.51	923.26	0	624.63	2	-205.44	2	-178.43	2.35	-304.59
98	99	127.18	0.00	-17.01	959.89	0	649.41	2	-213.59	2	-185.51	2.35	-316.68
99	99	127.18	0.00	-17.01	959.89	0	649.41	2	-213.59	2	-185.51	2.35	-316.68
99	100	128.75	0.00	1.97	965.09	0	652.93	2	-214.74	2	-186.51	2.35	-318.39
100	100	128.75	0.00	1.97	965.09	0	652.93	2	-214.74	2	-186.51	2.35	-318.39
100	101	130.33	0.00	26.73	944.57	0	639.05	2	-210.18	2	-182.55	2.35	-311.62
101	101	130.33	0.00	26.73	944.57	0	639.05	2	-210.18	2	-182.55	2.35	-311.62
101	102	131.90	0.00	45.25	892.60	0	603.89	2	-198.61	2	-172.50	2.35	-294.48
102	102	131.90	0.00	45.25	892.60	0	603.89	2	-198.61	2	-172.50	2.35	-294.48
102	103	133.48	0.00	56.71	812.96	0	550.01	2	-180.89	2	-157.11	2.35	-268.20
103	103	133.48	0.00	56.71	812.96	0	550.01	2	-180.89	2	-157.11	2.35	-268.20
103	104	135.05	0.00	75.37	703.17	0	475.73	2	-156.46	2	-135.89	2.35	-231.98
104	104	135.05	-0.67	75.37	703.17	0	475.51	2	-156.68	2	-136.08	2.35	-232.17
104	105	136.63	-0.88	100.37	562.94	0	380.57	2	-125.55	2	-109.04	2.35	-185.97
105	105	136.63	-0.88	100.37	562.94	0	371.40	2	-180.10	2	-156.43	2.35	-240.25
105	106	138.20	-1.06	118.97	396.35	0	261.36	2	-126.94	2	-110.25	2.35	-169.27
106	106	138.20	0.00	118.97	396.35	0	261.68	2	-126.62	2	-109.97	2.35	-168.99
106	107	139.78	0.00	87.90	235.70	0	155.62	2	-75.30	2	-65.40	2.35	-100.49
107	107	139.78	0.00	87.90	235.70	0	155.62	2	-75.30	2	-65.40	2.35	-100.49
107	108	141.35	0.00	31.26	130.68	0	86.28	2	-41.75	2	-36.26	2.35	-55.72
108	108	141.35	0.00	31.26	130.68	0	86.28	2	-41.75	2	-36.26	2.35	-55.72
108	109	142.93	0.00	8.83	102.56	0	67.71	2	-32.76	2	-28.46	2.35	-43.73
109	109	142.93	0.00	8.83	102.56	0	67.71	2	-32.76	2	-28.46	2.35	-43.73
109	110	143.50	0.00	-14.54	103.53	0	68.35	2	-33.07	2	-28.72	2.35	-44.14
110	110	143.50	0.00	-14.54	103.53	0	68.35	2	-33.07	2	-28.72	2.35	-44.14
110	111	144.50	0.00	-20.03	118.78	0	78.42	2	-37.94	2	-32.96	2.35	-50.64
111	1111	144.50	0.00	5.05	118.78	0	78.42	2	-37.94	2	-32.96	2.35	-50.64
111	112	145.50	0.00	-7.75	120.44	0	79.52	2	-38.47	2	-33.42	2.35	-51.35
112	112	145.50	0.00	-7.75	120.44	0	79.52	2	-38.47	2	-33.42	2.35	-51.35
112	113	145.68	0.00	-16.78	122.50	0	80.88	2	-39.13	2	-33.99	2.35	-52.23
113	113	145.68	0.00	-16.78	122.50	0	80.88	2	-39.13	2	-33.99	2.35	-52.23
113	114	146.85	0.00	-43.23	155.89	0	102.92	2	-49.80	2	-43.25	2.35	-66.47
114	114	146.85	0.00	-43.23	155.89	0	102.92	2	-49.80	2	-43.25	2.35	-66.47
114	115	148.03	0.00	-103.28	238.61	0	157.54	2	-76.22	2	-66.20	2.35	-101.73

CÁLCULO TENSIONAL

Hipótesis de cálculo:
IPF75B.ENV_TREN_GENERICO.MZ+.Tinf
Envolvente de tren de cargas plano genérico.MZ+). Tensiones a tiempo Tinf
1)IPF75B.MZ+
exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	-103.28	238.61	0	157.54	2	-76.22	2	-66.20	2.35	-101.73
115	116	149.20	0.00	-88.27	354.43	0	234.01	2	-113.22	2	-98.34	2.35	-151.11
116	116	149.20	-1.04	-88.27	354.43	0	233.69	2	-113.54	2	-98.62	2.35	-151.39
116	117	150.38	-0.88	-74.31	454.99	0	300.13	2	-145.62	2	-126.47	2.35	-194.22
117	117	150.38	-0.88	-74.31	454.99	0	307.53	2	-101.53	2	-88.18	2.35	-150.36
117	118	151.55	-0.71	-60.47	538.48	0	364.07	2	-120.05	2	-104.27	2.35	-177.85
118	118	151.55	0.00	-60.47	538.48	0	364.31	2	-119.82	2	-104.07	2.35	-177.65
118	119	152.73	0.00	-46.82	605.30	0	409.51	2	-134.69	2	-116.98	2.35	-199.69
119	119	152.73	0.00	-46.82	605.30	0	409.51	2	-134.69	2	-116.98	2.35	-199.69
119	120	153.90	0.00	-39.06	654.79	0	443.00	2	-145.70	2	-126.54	2.35	-216.02
120	120	153.90	0.00	-39.06	654.79	0	443.00	2	-145.70	2	-126.54	2.35	-216.02
120	121	155.08	0.00	-19.81	689.70	0	466.62	2	-153.47	2	-133.29	2.35	-227.54
121	121	155.08	0.00	-19.81	689.70	0	466.62	2	-153.47	2	-133.29	2.35	-227.54
121	122	156.25	0.00	-11.57	708.22	0	479.15	2	-157.59	2	-136.87	2.35	-233.65
122	122	156.25	0.00	-11.57	708.22	0	479.15	2	-157.59	2	-136.87	2.35	-233.65
122	123	157.43	0.00	8.48	712.05	0	481.74	2	-158.44	2	-137.61	2.35	-234.91
123	123	157.43	0.00	8.48	712.05	0	481.74	2	-158.44	2	-137.61	2.35	-234.91
123	124	158.60	0.00	15.44	697.41	0	471.83	2	-155.18	2	-134.78	2.35	-230.08
124	124	158.60	0.00	15.44	697.41	0	471.83	2	-155.18	2	-134.78	2.35	-230.08
124	125	159.78	0.00	29.28	667.14	0	451.35	2	-148.45	2	-128.93	2.35	-220.10
25	125	159.78	0.00	29.28	667.14	0	451.35	2	-148.45	2	-128.93	2.35	-220.10
25	126	160.95	0.00	42.93	621.64	0	420.57	2	-138.32	2	-120.14	2.35	-205.08
126	126	160.95	0.00	42.93	621.64	0	420.57	2	-138.32	2	-120.14	2.35	-205.08
126	127	162.13	0.00	63.48	559.05	0	378.22	2	-124.40	2	-108.04	2.35	-184.44
127	127	162.13	0.00	63.48	559.05	0	378.22	2	-124.40	2	-108.04	2.35	-184.44
127	128	163.30	0.00	77.44	479.13	0	324.15	2	-106.61	2	-92.60	2.35	-158.07
128	128	163.30	0.00	77.44	479.13	0	324.15	2	-106.61	2	-92.60	2.35	-158.07
128	129	164.48	0.00	91.28	383.87	0	259.71	2	-85.42	2	-74.19	2.35	-126.64
129	129	164.48	0.00	91.28	383.87	0	259.71	2	-85.42	2	-74.19	2.35	-126.64
129	130	165.65	0.00	104.93	274.18	0	185.50	2	-61.01	2	-52.99	2.35	-90.45
130	130	165.65	0.00	104.93	274.18	0	185.50	2	-61.01	2	-52.99	2.35	-90.45
130	131	166.83	0.00	118.63	146.29	0	98.97	2	-32.55	2	-28.27	2.35	-48.26
131	131	166.83	0.00	118.63	146.29	0	98.97	2	-32.55	2	-28.27	2.35	-48.26
131	132	167.00	0.00	120.76	125.74	0	85.07	2	-27.98	2	-24.30	2.35	-41.48
132	132	167.00	0.00	120.76	125.74	0	85.07	2	-27.98	2	-24.30	2.35	-41.48
132	133	168.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
IPF75B.ENV_TREN_GENERICO.MZ-.Tinf
'Envolvente de tren de cargas plano genérico.MZ-). Tensiones a tiempo Tinf
'IPF75B.MZ-
exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	20.81	-20.81	0	-14.08	2	4.63	2	4.02	2.35	6.87
2	2	1.00	0.00	20.81	-20.81	0	-14.08	2	4.63	2	4.02	2.35	6.87
2	3	1.18	0.00	20.81	-24.45	0	-16.54	2	5.44	2	4.73	2.35	8.07
3	3	1.18	0.00	20.81	-24.45	0	-16.54	2	5.44	2	4.73	2.35	8.07
3	4	2.35	0.00	20.81	-48.90	0	-33.08	2	10.88	2	9.45	2.35	16.13
4	4	2.35	0.00	20.81	-48.90	0	-33.08	2	10.88	2	9.45	2.35	16.13
4	5	3.53	0.00	20.81	-73.36	0	-49.63	2	16.32	2	14.18	2.35	24.20
5	5	3.53	0.00	20.81	-73.36	0	-49.63	2	16.32	2	14.18	2.35	24.20
5	6	4.70	0.00	20.81	-97.82	0	-66.18	2	21.77	2	18.90	2.35	32.27
6	6	4.70	0.00	20.81	-97.82	0	-66.18	2	21.77	2	18.90	2.35	32.27
6	7	5.88	0.00	20.81	-122.27	0	-82.72	2	27.21	2	23.63	2.35	40.34
7	7	5.88	0.00	20.81	-122.27	0	-82.72	2	27.21	2	23.63	2.35	40.34
7	8	7.05	0.00	20.81	-146.72	0	-99.26	2	32.65	2	28.35	2.35	48.40
8	8	7.05	0.00	20.81	-146.72	0	-99.26	2	32.65	2	28.35	2.35	48.40
8	9	8.23	0.00	20.81	-171.18	0	-115.81	2	38.09	2	33.08	2.35	56.47
9	9	8.23	0.00	20.81	-171.18	0	-115.81	2	38.09	2	33.08	2.35	56.47
9	10	9.40	0.00	20.81	-195.63	0	-132.35	2	43.53	2	37.81	2.35	64.54
10	10	9.40	0.00	20.81	-195.63	0	-132.35	2	43.53	2	37.81	2.35	64.54
10	11	10.58	0.00	20.81	-220.08	0	-148.89	2	48.97	2	42.53	2.35	72.61
11	11	10.58	0.00	20.81	-220.08	0	-148.89	2	48.97	2	42.53	2.35	72.61
11	12	11.75	0.00	20.81	-244.54	0	-165.44	2	54.41	2	47.26	2.35	80.68
12	12	11.75	0.00	20.81	-244.54	0	-165.44	2	54.41	2	47.26	2.35	80.68
12	13	12.93	0.00	20.81	-268.99	0	-181.98	2	59.85	2	51.98	2.35	88.74
13	13	12.93	0.00	20.81	-268.99	0	-181.98	2	59.85	2	51.98	2.35	88.74
13	14	14.10	0.00	20.81	-293.45	0	-198.53	2	65.30	2	56.71	2.35	96.81
14	14	14.10	0.00	20.81	-293.45	0	-198.53	2	65.30	2	56.71	2.35	96.81
14	15	15.28	0.00	20.81	-317.91	0	-215.08	2	70.74	2	61.44	2.35	104.88
15	15	15.28	0.00	20.81	-317.91	0	-215.08	2	70.74	2	61.44	2.35	104.88
15	16	16.45	0.00	20.81	-342.36	0	-231.62	2	76.18	2	66.16	2.35	112.95
16	16	16.45	-0.24	20.81	-342.36	0	-231.70	2	76.10	2	66.10	2.35	112.88
16	17	17.63	-0.24	20.81	-366.81	0	-248.24	2	81.54	2	70.82	2.35	120.95
17	17	17.63	-0.24	20.81	-366.81	0	-242.25	2	117.11	2	101.71	2.35	156.33
17	18	18.80	-0.24	20.81	-391.28	0	-258.41	2	124.92	2	108.50	2.35	166.76
18	18	18.80	0.00	20.81	-391.28	0	-258.34	2	125.00	2	108.56	2.35	166.83
18	19	19.98	0.00	33.38	-418.21	0	-276.12	2	133.60	2	116.03	2.35	178.31
19	19	19.98	0.00	33.38	-418.21	0	-276.12	2	133.60	2	116.03	2.35	178.31
19	20	21.15	0.00	78.22	-487.65	0	-321.96	2	155.78	2	135.30	2.35	207.91
20	20	21.15	0.00	78.22	-487.65	0	-321.96	2	155.78	2	135.30	2.35	207.91
20	21	22.33	0.00	132.64	-613.02	0	-404.73	2	195.83	2	170.09	2.35	261.37
21	21	22.33	0.00	132.64	-613.02	0	-404.73	2	195.83	2	170.09	2.35	261.37
21	22	22.50	0.00	143.44	-637.47	0	-420.88	2	203.64	2	176.87	2.35	271.79
22	22	22.50	0.00	143.44	-637.47	0	-420.88	2	203.64	2	176.87	2.35	271.79
22	23	23.50	0.00	167.66	-792.81	0	-523.44	2	253.27	2	219.97	2.35	338.02
23	1023	23.50	0.00	-187.27	-792.81	0	-523.44	2	253.27	2	219.97	2.35	338.02
23	24	24.50	0.00	-156.28	-618.87	0	-408.60	2	197.70	2	171.71	2.35	263.86
24	24	24.50	0.00	-156.28	-618.87	0	-408.60	2	197.70	2	171.71	2.35	263.86
24	25	24.95	0.00	-142.64	-549.01	0	-362.47	2	175.38	2	152.33	2.35	234.08
25	25	24.95	0.00	-142.64	-549.01	0	-362.47	2	175.38	2	152.33	2.35	234.08
25	26	26.40	0.00	-87.83	-377.10	0	-248.97	2	120.47	2	104.63	2.35	160.78
26	26	26.40	0.00	-87.83	-377.10	0	-248.97	2	120.47	2	104.63	2.35	160.78
26	27	27.85	0.00	-45.03	-283.35	0	-187.08	2	90.52	2	78.62	2.35	120.81
27	27	27.85	0.00	-45.03	-283.35	0	-187.08	2	90.52	2	78.62	2.35	120.81
27	28	29.30	0.00	3.28	-253.60	0	-167.43	2	81.01	2	70.36	2.35	108.12
28	28	29.30	0.03	3.28	-253.60	0	-167.43	2	81.02	2	70.37	2.35	108.13
28	29	30.75	0.03	3.28	-258.38	0	-170.58	2	82.55	2	71.70	2.35	110.17
29	29	30.75	0.03	3.28	-258.38	0	-174.80	2	57.50	2	49.94	2.35	85.25
29	30	32.20	0.03	3.28	-263.14	0	-178.02	2	58.56	2	50.86	2.35	86.82
30	30	32.20	0.00	3.28	-263.14	0	-178.03	2	58.55	2	50.85	2.35	86.81
30	31	33.65	0.00	3.28	-267.92	0	-181.26	2	59.62	2	51.78	2.35	88.39
31	31	33.65	0.00	3.28	-267.92	0	-181.26	2	59.62	2	51.78	2.35	88.39
31	32	35.10	0.00	3.28	-272.66	0	-184.48	2	60.67	2	52.70	2.35	89.96
32	32	35.10	0.00	3.28	-272.66	0	-184.48	2	60.67	2	52.70	2.35	89.96
32	33	36.55	0.00	3.28	-277.46	0	-187.72	2	61.74	2	53.62	2.35	91.54
33	33	36.55	0.00	3.28	-277.46	0	-187.72	2	61.74	2	53.62	2.35	91.54
33	34	38.00	0.00	8.13	-288.17	0	-194.96	2	64.12	2	55.69	2.35	95.07
34	34	38.00	0.00	8.13	-288.17	0	-194.96	2	64.12	2	55.69	2.35	95.07
34	35	39.45	0.00	8.13	-299.96	0	-202.94	2	66.74	2	57.97	2.35	98.96
35	35	39.45	0.00	8.13	-299.96	0	-202.94	2	66.74	2	57.97	2.35	98.96
35	36	40.90	0.00	8.13	-311.75	0	-210.91	2	69.37	2	60.25	2.35	102.85
36	36	40.90	0.00	8.13	-311.75	0	-210.91	2	69.37	2	60.25	2.35	102.85
3	37	42.35	0.00	8.13	-323.54	0	-218.89	2	71.99	2	62.53	2.35	106.74
37	37	42.35	0.00	8.13	-323.54	0	-218.89	2	71.99	2	62.53	2.35	106.74
37	38	43.80	0.00	8.13	-335.33	0	-226.87	2	74.61	2	64.81	2.35	110.63
38	38	43.80	-0.08	8.13	-335.33	0	-226.89	2	74.59	2	64.78	2.35	110.61
38	39	45.25	-0.08	8.13	-347.11	0	-234.86	2	77.21	2	67.06	2.35	114.49

CÁLCULO TENSIONAL

lipótesis de cálculo:
PF75B.ENV_TREN_GENERICO.MZ-.Tinf
Envolvente de tren de cargas plano genérico.MZ-). Tensiones a tiempo Tinf
1. 1)IPF75B.MZ-
ref exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-0.08	8.13	-347.11	0	-229.20	2	110.86	2	96.29	2.35	147.97
39	40	46.70	-0.08	8.13	-358.90	0	-236.98	2	114.63	2	99.56	2.35	153.00
40	40	46.70	0.00	8.13	-358.90	0	-236.96	2	114.65	2	99.58	2.35	153.02
40	41	48.15	0.00	34.95	-385.02	0	-254.20	2	123.00	2	106.83	2.35	164.16
41	41	48.15	0.00	34.95	-385.02	0	-254.20	2	123.00	2	106.83	2.35	164.16
41	42	49.60	0.00	77.99	-469.95	0	-310.28	2	150.13	2	130.39	2.35	200.37
42	42	49.60	0.00	77.99	-469.95	0	-310.28	2	150.13	2	130.39	2.35	200.37
42	43	51.05	0.00	139.27	-626.40	0	-413.57	2	200.11	2	173.80	2.35	267.07
43	43	51.05	0.00	139.27	-626.40	0	-413.57	2	200.11	2	173.80	2.35	267.07
43	44	51.50	0.00	152.31	-693.77	0	-458.05	2	221.63	2	192.49	2.35	295.80
44	44	51.50	0.00	152.31	-693.77	0	-458.05	2	221.63	2	192.49	2.35	295.80
44	45	52.50	0.00	184.60	-865.83	0	-571.65	2	276.59	2	240.23	2.35	369.16
45	1045	52.50	0.00	-188.79	-865.83	0	-571.65	2	276.59	2	240.23	2.35	369.16
45	46	53.50	0.00	-156.38	-688.86	0	-454.81	2	220.06	2	191.13	2.35	293.70
46	46	53.50	0.00	-156.38	-688.86	0	-454.81	2	220.06	2	191.13	2.35	293.70
46	47	53.95	0.00	-143.30	-619.43	0	-408.97	2	197.88	2	171.86	2.35	264.10
47	47	53.95	0.00	-143.30	-619.43	0	-408.97	2	197.88	2	171.86	2.35	264.10
47	48	55.40	0.00	-81.48	-455.26	0	-300.58	2	145.43	2	126.31	2.35	194.10
48	48	55.40	0.00	-81.48	-455.26	0	-300.58	2	145.43	2	126.31	2.35	194.10
48	49	56.85	0.00	-42.82	-364.03	0	-240.34	2	116.29	2	101.00	2.35	155.21
49	49	56.85	0.00	-42.82	-364.03	0	-240.34	2	116.29	2	101.00	2.35	155.21
49	50	58.30	0.00	1.43	-339.41	0	-224.09	2	108.43	2	94.17	2.35	144.71
50	50	58.30	0.00	1.43	-339.41	0	-224.09	2	108.43	2	94.17	2.35	144.71
50	51	59.75	0.00	1.43	-341.48	0	-225.46	2	109.09	2	94.75	2.35	145.59
51	51	59.75	0.00	1.43	-341.48	0	-231.03	2	75.98	2	65.99	2.35	112.66
51	52	61.20	0.00	1.43	-343.55	0	-232.43	2	76.44	2	66.39	2.35	113.34
52	52	61.20	0.00	1.43	-343.55	0	-232.43	2	76.44	2	66.39	2.35	113.34
52	53	62.65	0.00	1.43	-345.62	0	-233.83	2	76.90	2	66.79	2.35	114.02
53	53	62.65	0.00	1.43	-345.62	0	-233.83	2	76.90	2	66.79	2.35	114.02
53	54	64.10	0.00	1.43	-347.68	0	-235.22	2	77.36	2	67.19	2.35	114.70
54	54	64.10	0.00	1.43	-347.68	0	-235.22	2	77.36	2	67.19	2.35	114.70
54	55	65.55	0.00	1.43	-349.75	0	-236.62	2	77.82	2	67.59	2.35	115.39
55	55	65.55	0.00	1.43	-349.75	0	-236.62	2	77.82	2	67.59	2.35	115.39
55	56	67.00	0.00	7.38	-357.15	0	-241.63	2	79.47	2	69.02	2.35	117.83
56	56	67.00	0.00	7.38	-357.15	0	-241.63	2	79.47	2	69.02	2.35	117.83
56	57	68.45	0.00	7.38	-367.86	0	-248.88	2	81.85	2	71.09	2.35	121.36
57	57	68.45	0.00	7.38	-367.86	0	-248.88	2	81.85	2	71.09	2.35	121.36
57	58	69.90	0.00	7.38	-378.56	0	-256.11	2	84.23	2	73.16	2.35	124.89
58	58	69.90	0.00	7.38	-378.56	0	-256.11	2	84.23	2	73.16	2.35	124.89
58	59	71.35	0.00	7.38	-389.27	0	-263.36	2	86.62	2	75.23	2.35	128.42
59	59	71.35	0.00	7.38	-389.27	0	-263.36	2	86.62	2	75.23	2.35	128.42
59	60	72.80	0.00	7.38	-399.98	0	-270.61	2	89.00	2	77.30	2.35	131.96
60	60	72.80	-0.06	7.38	-399.98	0	-270.63	2	88.98	2	77.28	2.35	131.94
60	61	74.25	-0.06	7.38	-410.68	0	-277.86	2	91.36	2	79.35	2.35	135.47
61	61	74.25	-0.06	7.38	-410.68	0	-271.16	2	131.17	2	113.93	2.35	175.08
61	62	75.70	-0.06	7.38	-421.39	0	-278.23	2	134.60	2	116.90	2.35	179.65
62	62	75.70	0.00	7.38	-421.39	0	-278.21	2	134.61	2	116.92	2.35	179.66
62	63	77.15	0.00	36.05	-443.61	0	-292.88	2	141.71	2	123.08	2.35	189.14
63	63	77.15	0.00	36.05	-443.61	0	-292.88	2	141.71	2	123.08	2.35	189.14
63	64	78.60	0.00	83.44	-528.31	0	-348.81	2	168.77	2	146.58	2.35	225.25
64	64	78.60	0.00	83.44	-528.31	0	-348.81	2	168.77	2	146.58	2.35	225.25
64	65	80.05	0.00	128.21	-683.31	0	-451.14	2	218.29	2	189.59	2.35	291.34
65	65	80.05	0.00	128.21	-683.31	0	-451.14	2	218.29	2	189.59	2.35	291.34
65	66	80.50	0.00	157.60	-748.95	0	-494.48	2	239.25	2	207.80	2.35	319.32
66	66	80.50	0.00	157.60	-748.95	0	-494.48	2	239.25	2	207.80	2.35	319.32
66	67	81.50	0.00	189.60	-923.49	0	-609.72	2	295.01	2	256.23	2.35	393.74
67	1067	81.50	0.00	-198.57	-923.49	0	-609.72	2	295.01	2	256.23	2.35	393.74
67	68	82.50	0.00	-167.09	-735.84	0	-485.82	2	235.07	2	204.16	2.35	313.73
68	68	82.50	0.00	-167.09	-735.84	0	-485.82	2	235.07	2	204.16	2.35	313.73
68	69	83.08	0.00	-149.27	-641.45	0	-423.51	2	204.91	2	177.97	2.35	273.49
69	69	83.08	0.00	-149.27	-641.45	0	-423.51	2	204.91	2	177.97	2.35	273.49
69	70	84.65	0.00	-83.03	-457.18	0	-301.84	2	146.05	2	126.85	2.35	194.92
70	70	84.65	0.00	-83.03	-457.18	0	-301.84	2	146.05	2	126.85	2.35	194.92
70	71	86.23	0.00	-41.11	-357.91	0	-236.30	2	114.34	2	99.30	2.35	152.60
71	71	86.23	0.00	-41.11	-357.91	0	-236.30	2	114.34	2	99.30	2.35	152.60
71	72	87.80	0.00	-0.11	-332.87	0	-219.77	2	106.34	2	92.36	2.35	141.92
72	72	87.80	0.00	-0.11	-332.87	0	-219.77	2	106.34	2	92.36	2.35	141.92
72	73	89.38	0.00	-0.11	-332.71	0	-219.67	2	106.29	2	92.31	2.35	141.85
73	73	89.38	0.00	-0.11	-332.71	0	-225.09	2	74.03	2	64.30	2.35	109.76
73	74	90.95	0.00	-0.11	-332.55	0	-224.99	2	74.00	2	64.27	2.35	109.71
74	74	90.95	0.00	-0.11	-332.55	0	-224.99	2	74.00	2	64.27	2.35	109.71
74	75	92.53	0.00	-0.11	-332.37	0	-224.86	2	73.96	2	64.23	2.35	109.65
75	75	92.53	0.00	-0.11	-332.37	0	-224.86	2	73.96	2	64.23	2.35	109.65
75	76	94.10	0.00	-0.11	-332.21	0	-224.76	2	73.92	2	64.20	2.35	109.60
76	76	94.10	0.00	-0.11	-332.21	0	-224.76	2	73.92	2	64.20	2.35	109.60
76	77	95.68	0.00	-0.11	-332.05	0	-224.65	2	73.88	2	64.17	2.35	109.55

CÁLCULO TENSIONAL

Hipótesis de cálculo:
IPF75B.ENV_TREN_GENERICO.MZ-.Tinf
volvente de tren de cargas plano genérico.MZ-). Tensiones a tiempo Tinf
PF75B.MZ-
Cc xc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-0.11	-332.05	0	-224.65	2	73.88	2	64.17	2.35	109.55
77	78	97.25	0.00	5.07	-336.39	0	-227.58	2	74.85	2	65.01	2.35	110.98
78	78	97.25	0.00	5.07	-336.39	0	-227.58	2	74.85	2	65.01	2.35	110.98
78	79	98.83	0.00	5.07	-344.38	0	-232.99	2	76.63	2	66.55	2.35	113.61
79	79	98.83	0.00	5.07	-344.38	0	-232.99	2	76.63	2	66.55	2.35	113.61
79	80	100.40	0.00	5.07	-352.38	0	-238.40	2	78.41	2	68.10	2.35	116.25
80	80	100.40	0.00	5.07	-352.38	0	-238.40	2	78.41	2	68.10	2.35	116.25
80	81	101.98	0.00	5.07	-360.36	0	-243.80	2	80.18	2	69.64	2.35	118.89
81	81	101.98	0.00	5.07	-360.36	0	-243.80	2	80.18	2	69.64	2.35	118.89
81	82	103.55	0.00	5.07	-368.36	0	-249.21	2	81.96	2	71.19	2.35	121.53
82	82	103.55	-0.05	5.07	-368.36	0	-249.23	2	81.95	2	71.17	2.35	121.51
82	83	105.13	-0.05	5.07	-376.35	0	-254.64	2	83.73	2	72.72	2.35	124.15
83	83	105.13	-0.05	5.07	-376.35	0	-248.49	2	120.21	2	104.41	2.35	160.45
83	84	106.70	-0.05	5.07	-384.34	0	-253.77	2	122.76	2	106.62	2.35	163.85
84	84	106.70	0.00	5.07	-384.34	0	-253.75	2	122.78	2	106.64	2.35	163.87
84	85	108.28	0.00	33.77	-406.91	0	-268.65	2	129.99	2	112.90	2.35	173.49
85	85	108.28	0.00	33.77	-406.91	0	-268.65	2	129.99	2	112.90	2.35	173.49
85	86	109.85	0.00	85.36	-501.39	0	-331.03	2	160.17	2	139.11	2.35	213.77
86	86	109.85	0.00	85.36	-501.39	0	-331.03	2	160.17	2	139.11	2.35	213.77
6	87	111.43	0.00	134.06	-677.69	0	-447.43	2	216.49	2	188.03	2.35	288.94
/	87	111.43	0.00	134.06	-677.69	0	-447.43	2	216.49	2	188.03	2.35	288.94
/	88	112.00	0.00	165.21	-768.54	0	-507.41	2	245.51	2	213.24	2.35	327.67
88	88	112.00	0.00	165.21	-768.54	0	-507.41	2	245.51	2	213.24	2.35	327.67
88	89	113.00	0.00	199.96	-956.30	0	-631.38	2	305.49	2	265.33	2.35	407.73
89	1089	113.00	0.00	-197.18	-956.30	0	-631.38	2	305.49	2	265.33	2.35	407.73
89	90	114.00	0.00	-162.47	-771.53	0	-509.39	2	246.47	2	214.06	2.35	328.95
90	90	114.00	0.00	-162.47	-771.53	0	-509.39	2	246.47	2	214.06	2.35	328.95
90	91	114.58	0.00	-131.41	-682.76	0	-450.78	2	218.11	2	189.44	2.35	291.10
91	91	114.58	0.00	-131.41	-682.76	0	-450.78	2	218.11	2	189.44	2.35	291.10
91	92	116.15	0.00	-82.88	-510.92	0	-337.33	2	163.22	2	141.76	2.35	217.84
92	92	116.15	0.00	-82.88	-510.92	0	-337.33	2	163.22	2	141.76	2.35	217.84
92	93	117.73	0.00	-31.74	-420.73	0	-277.78	2	134.40	2	116.73	2.35	179.38
93	93	117.73	0.00	-31.74	-420.73	0	-277.78	2	134.40	2	116.73	2.35	179.38
93	94	119.30	0.00	-9.97	-395.71	0	-261.26	2	126.41	2	109.79	2.35	168.71
94	94	119.30	-0.10	-9.97	-395.71	0	-261.29	2	126.38	2	109.77	2.35	168.69
94	95	120.88	-0.10	-9.97	-380.01	0	-250.93	2	121.36	2	105.41	2.35	161.99
95	95	120.88	-0.10	-9.97	-380.01	0	-257.13	2	84.52	2	73.41	2.35	125.34
95	96	122.45	-0.10	-9.97	-364.31	0	-246.51	2	81.03	2	70.38	2.35	120.16
96	96	122.45	0.00	-9.97	-364.31	0	-246.47	2	81.06	2	70.41	2.35	120.19
96	97	124.03	0.00	-9.97	-348.61	0	-235.85	2	77.57	2	67.37	2.35	115.01
97	97	124.03	0.00	-9.97	-348.61	0	-235.85	2	77.57	2	67.37	2.35	115.01
97	98	125.60	0.00	-9.97	-332.91	0	-225.23	2	74.08	2	64.34	2.35	109.83
98	98	125.60	0.00	-9.97	-332.91	0	-225.23	2	74.08	2	64.34	2.35	109.83
98	99	127.18	0.00	-9.97	-317.21	0	-214.61	2	70.58	2	61.30	2.35	104.65
99	99	127.18	0.00	-9.97	-317.21	0	-214.61	2	70.58	2	61.30	2.35	104.65
(	100	128.75	0.00	-9.97	-301.51	0	-203.99	2	67.09	2	58.27	2.35	99.47
)	100	128.75	0.00	-9.97	-301.51	0	-203.99	2	67.09	2	58.27	2.35	99.47
100	101	130.33	0.00	-9.97	-285.80	0	-193.36	2	63.59	2	55.23	2.35	94.29
101	101	130.33	0.00	-9.97	-285.80	0	-193.36	2	63.59	2	55.23	2.35	94.29
101	102	131.90	0.00	-5.28	-274.85	0	-185.95	2	61.16	2	53.12	2.35	90.68
102	102	131.90	0.00	-5.28	-274.85	0	-185.95	2	61.16	2	53.12	2.35	90.68
102	103	133.48	0.00	-5.28	-266.54	0	-180.33	2	59.31	2	51.51	2.35	87.93
103	103	133.48	0.00	-5.28	-266.54	0	-180.33	2	59.31	2	51.51	2.35	87.93
103	104	135.05	0.00	-5.28	-258.22	0	-174.70	2	57.46	2	49.90	2.35	85.19
104	104	135.05	0.05	-5.28	-258.22	0	-174.68	2	57.47	2	49.92	2.35	85.20
104	105	136.63	0.05	-5.28	-249.90	0	-169.05	2	55.62	2	48.31	2.35	82.46
105	105	136.63	0.05	-5.28	-249.90	0	-164.98	2	79.85	2	69.35	2.35	106.56
105	106	138.20	0.05	-5.28	-241.58	0	-159.48	2	77.19	2	67.04	2.35	103.01
106	106	138.20	0.00	-5.28	-241.58	0	-159.50	2	77.17	2	67.03	2.35	103.00
106	107	139.78	0.00	44.44	-270.51	0	-178.60	2	86.42	2	75.05	2.35	115.33
107	107	139.78	0.00	44.44	-270.51	0	-178.60	2	86.42	2	75.05	2.35	115.33
107	108	141.35	0.00	91.12	-373.57	0	-246.64	2	119.34	2	103.65	2.35	159.28
108	108	141.35	0.00	91.12	-373.57	0	-246.64	2	119.34	2	103.65	2.35	159.28
108	109	142.93	0.00	149.93	-567.88	0	-374.93	2	181.41	2	157.56	2.35	242.12
109	109	142.93	0.00	149.93	-567.88	0	-374.93	2	181.41	2	157.56	2.35	242.12
109	110	143.50	0.00	179.05	-661.82	0	-436.95	2	211.42	2	183.63	2.35	282.17
110	110	143.50	0.00	179.05	-661.82	0	-436.95	2	211.42	2	183.63	2.35	282.17
110	111	144.50	0.00	198.11	-849.90	0	-561.13	2	271.50	2	235.81	2.35	362.36
111	1111	144.50	0.00	-170.44	-849.90	0	-561.13	2	271.50	2	235.81	2.35	362.36
111	112	145.50	0.00	-142.59	-693.62	0	-457.95	2	221.58	2	192.45	2.35	295.73
11	112	145.50	0.00	-142.59	-693.62	0	-457.95	2	221.58	2	192.45	2.35	295.73
1	113	145.68	0.00	-119.35	-669.67	0	-442.14	2	213.93	2	185.80	2.35	285.52
113	113	145.68	0.00	-119.35	-669.67	0	-442.14	2	213.93	2	185.80	2.35	285.52
113	114	146.85	0.00	-81.17	-549.99	0	-363.12	2	175.70	2	152.60	2.35	234.49
114	114	146.85	0.00	-81.17	-549.99	0	-363.12	2	175.70	2	152.60	2.35	234.49
114	115	148.03	0.00	-29.78	-484.45	0	-319.85	2	154.76	2	134.41	2.35	206.55

CÁLCULO TENSIONAL

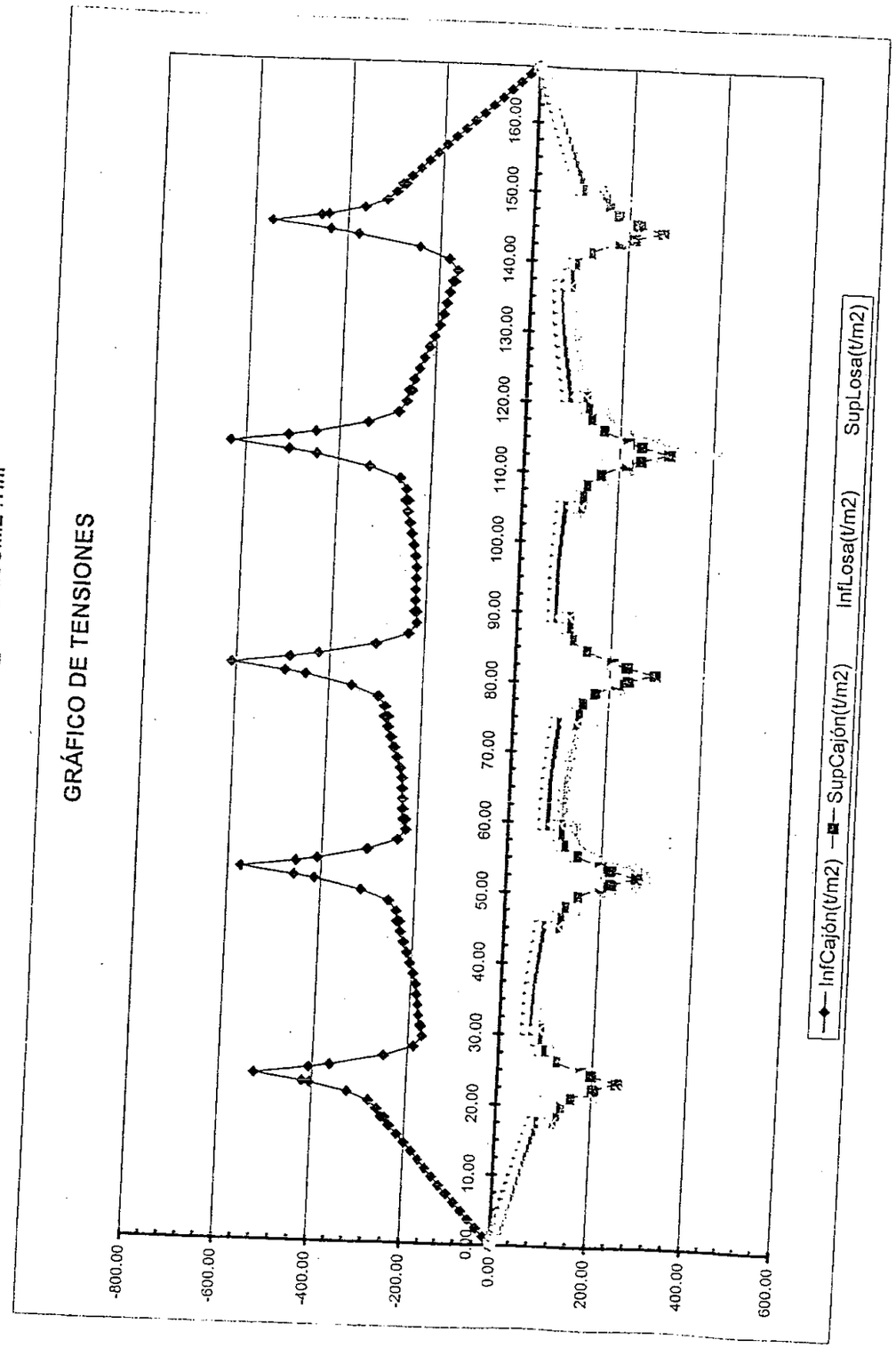
Hipótesis de cálculo:
F75B.ENV_TREN_GENERICO.MZ-.Tinf
Envolvente de tren de cargas plano genérico.MZ-). Tensiones a tiempo Tinf
IPF75B.MZ-
ef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	-29.78	-484.45	0	-319.85	2	154.76	2	134.41	2.35	206.55
115	116	149.20	0.00	-24.23	-455.62	0	-300.81	2	145.55	2	126.41	2.35	194.26
116	116	149.20	-0.28	-24.23	-455.62	0	-300.90	2	145.46	2	126.34	2.35	194.18
116	117	150.38	-0.28	-24.23	-427.14	0	-282.10	2	136.37	2	118.44	2.35	182.04
117	117	150.38	-0.28	-24.23	-427.14	0	-289.07	2	94.95	2	82.47	2.35	140.84
117	118	151.55	-0.28	-24.23	-398.66	0	-269.81	2	88.61	2	76.96	2.35	131.44
118	118	151.55	0.00	-24.23	-398.66	0	-269.71	2	88.71	2	77.04	2.35	131.52
118	119	152.73	0.00	-24.23	-370.18	0	-250.44	2	82.37	2	71.54	2.35	122.13
119	119	152.73	0.00	-24.23	-370.18	0	-250.44	2	82.37	2	71.54	2.35	122.13
119	120	153.90	0.00	-24.23	-341.72	0	-231.19	2	76.04	2	66.04	2.35	112.74
120	120	153.90	0.00	-24.23	-341.72	0	-231.19	2	76.04	2	66.04	2.35	112.74
120	121	155.08	0.00	-24.23	-313.23	0	-211.92	2	69.70	2	60.53	2.35	103.34
121	121	155.08	0.00	-24.23	-313.23	0	-211.92	2	69.70	2	60.53	2.35	103.34
121	122	156.25	0.00	-24.23	-284.76	0	-192.65	2	63.36	2	55.03	2.35	93.94
122	122	156.25	0.00	-24.23	-284.76	0	-192.65	2	63.36	2	55.03	2.35	93.94
122	123	157.43	0.00	-24.23	-256.28	0	-173.39	2	57.03	2	49.53	2.35	84.55
123	123	157.43	0.00	-24.23	-256.28	0	-173.39	2	57.03	2	49.53	2.35	84.55
123	124	158.60	0.00	-24.23	-227.81	0	-154.12	2	50.69	2	44.03	2.35	75.16
124	124	158.60	0.00	-24.23	-227.81	0	-154.12	2	50.69	2	44.03	2.35	75.16
124	125	159.78	0.00	-24.23	-199.33	0	-134.86	2	44.35	2	38.52	2.35	65.76
125	125	159.78	0.00	-24.23	-199.33	0	-134.86	2	44.35	2	38.52	2.35	65.76
125	126	160.95	0.00	-24.23	-170.86	0	-115.60	2	38.02	2	33.02	2.35	56.37
126	126	160.95	0.00	-24.23	-170.86	0	-115.60	2	38.02	2	33.02	2.35	56.37
126	127	162.13	0.00	-24.23	-142.38	0	-96.33	2	31.68	2	27.52	2.35	46.97
127	127	162.13	0.00	-24.23	-142.38	0	-96.33	2	31.68	2	27.52	2.35	46.97
127	128	163.30	0.00	-24.23	-113.90	0	-77.06	2	25.34	2	22.01	2.35	37.58
128	128	163.30	0.00	-24.23	-113.90	0	-77.06	2	25.34	2	22.01	2.35	37.58
128	129	164.48	0.00	-24.23	-85.42	0	-57.79	2	19.01	2	16.51	2.35	28.18
129	129	164.48	0.00	-24.23	-85.42	0	-57.79	2	19.01	2	16.51	2.35	28.18
129	130	165.65	0.00	-24.23	-56.96	0	-38.54	2	12.67	2	11.01	2.35	18.79
130	130	165.65	0.00	-24.23	-56.96	0	-38.54	2	12.67	2	11.01	2.35	18.79
130	131	166.83	0.00	-24.23	-28.47	0	-19.26	2	6.33	2	5.50	2.35	9.39
131	131	166.83	0.00	-24.23	-28.47	0	-19.26	2	6.33	2	5.50	2.35	9.39
131	132	167.00	0.00	-24.23	-24.23	0	-16.39	2	5.39	2	4.68	2.35	7.99
132	132	167.00	0.00	-24.23	-24.23	0	-16.39	2	5.39	2	4.68	2.35	7.99
132	133	168.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.MZ+.Tinf
Envolventedefrendecargasplanogenérico.MZ+). Tensiones a tiempo Tinf
). I|PASEO.ENV_TREN_GENERICO.MZ+
ref. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	0.00	0.00								
1	2	1.00	0.00	-7.47	7.85	0	0.00	2	0.00	2	0.00	2.35	0.00
2	2	1.00	0.00	-7.47	7.85	0	5.31	2	-1.75	2	-1.52	2.35	-2.59
2	3	1.18	0.00	-7.34	9.14	0	5.31	2	-1.75	2	-1.52	2.35	-2.59
3	3	1.18	0.00	-7.34	9.14	0	6.18	2	-2.03	2	-1.77	2.35	-3.02
3	4	2.35	0.00	-6.46	17.25	0	6.18	2	-2.03	2	-1.77	2.35	-3.02
4	4	2.35	0.00	-6.46	17.25	0	11.67	2	-3.84	2	-3.33	2.35	-5.69
4	5	3.53	0.00	-5.58	24.32	0	11.67	2	-3.84	2	-3.33	2.35	-5.69
5	5	3.53	0.00	-5.58	24.32	0	16.45	2	-5.41	2	-4.70	2.35	-8.02
5	6	4.70	0.00	-4.70	30.35	0	16.45	2	-5.41	2	-4.70	2.35	-8.02
6	6	4.70	0.00	-4.70	30.35	0	20.53	2	-6.75	2	-5.87	2.35	-10.01
6	7	5.88	0.00	-3.81	35.35	0	20.53	2	-6.75	2	-5.87	2.35	-10.01
7	7	5.88	0.00	-3.81	35.35	0	23.92	2	-7.87	2	-6.83	2.35	-11.66
7	8	7.05	0.00	-2.93	39.32	0	23.92	2	-7.87	2	-6.83	2.35	-11.66
8	8	7.05	0.00	-2.93	39.32	0	26.60	2	-8.75	2	-7.60	2.35	-12.97
8	9	8.23	0.00	-2.05	42.25	0	26.60	2	-8.75	2	-7.60	2.35	-12.97
9	9	8.23	0.00	-2.05	42.25	0	28.58	2	-9.40	2	-8.17	2.35	-13.94
9	10	9.40	0.00	-1.17	44.14	0	28.58	2	-9.40	2	-8.17	2.35	-13.94
10	10	9.40	0.00	-1.17	44.14	0	29.86	2	-9.82	2	-8.53	2.35	-14.56
10	11	10.58	0.00	-0.29	45.00	0	29.86	2	-9.82	2	-8.53	2.35	-14.56
11	11	10.58	0.00	-0.29	45.00	0	30.44	2	-10.01	2	-8.70	2.35	-14.85
11	12	11.75	0.00	0.59	44.82	0	30.44	2	-10.01	2	-8.70	2.35	-14.85
12	12	11.75	0.00	0.59	44.82	0	30.32	2	-9.97	2	-8.66	2.35	-14.79
12	13	12.93	0.00	1.47	43.61	0	30.32	2	-9.97	2	-8.66	2.35	-14.79
13	13	12.93	0.00	1.47	43.61	0	29.50	2	-9.70	2	-8.43	2.35	-14.39
13	14	14.10	0.00	2.35	41.36	0	29.50	2	-9.70	2	-8.43	2.35	-14.39
14	14	14.10	0.00	2.35	41.36	0	27.98	2	-9.20	2	-7.99	2.35	-13.65
14	15	15.28	0.00	3.24	38.07	0	27.98	2	-9.20	2	-7.99	2.35	-13.65
15	15	15.28	0.00	3.24	38.07	0	25.76	2	-8.47	2	-7.36	2.35	-12.56
15	16	16.45	0.00	4.12	33.75	0	25.76	2	-8.47	2	-7.36	2.35	-12.56
16	16	16.45	-0.05	4.12	33.75	0	22.83	2	-7.51	2	-6.52	2.35	-11.13
16	17	17.63	-0.06	5.00	28.40	0	22.82	2	-7.53	2	-6.54	2.35	-11.15
17	17	17.63	-0.06	5.00	28.40	0	19.19	2	-6.34	2	-5.51	2.35	-9.39
17	18	18.80	-0.07	5.88	22.01	0	18.73	2	-9.09	2	-7.90	2.35	-12.12
18	18	18.80	0.00	5.88	22.01	0	14.51	2	-7.05	2	-6.13	2.35	-9.40
18	19	19.98	0.00	5.82	14.77	0	14.53	2	-7.03	2	-6.11	2.35	-9.38
19	19	19.98	0.00	5.82	14.77	0	9.75	2	-4.72	2	-4.10	2.35	-6.30
19	20	21.15	0.00	3.34	9.68	0	9.75	2	-4.72	2	-4.10	2.35	-6.30
20	20	21.15	0.00	3.34	9.68	0	6.39	2	-3.09	2	-2.69	2.35	-4.13
20	21	22.33	0.00	1.34	7.28	0	6.39	2	-3.09	2	-2.69	2.35	-4.13
21	21	22.33	0.00	1.34	7.28	0	4.81	2	-2.33	2	-2.02	2.35	-3.10
21	22	22.50	0.00	0.67	7.12	0	4.81	2	-2.33	2	-2.02	2.35	-3.10
22	22	22.50	0.00	0.67	7.12	0	4.70	2	-2.27	2	-1.98	2.35	-3.04
22	23	23.50	0.00	-0.29	6.93	0	4.70	2	-2.27	2	-1.98	2.35	-3.04
23	1023	23.50	0.00	1.27	6.93	0	4.58	2	-2.21	2	-1.92	2.35	-2.95
23	24	24.50	0.00	-0.07	6.07	0	4.58	2	-2.21	2	-1.92	2.35	-2.95
24	24	24.50	0.00	-0.07	6.07	0	4.01	2	-1.94	2	-1.68	2.35	-2.59
24	25	24.95	0.00	-0.72	6.05	0	4.01	2	-1.94	2	-1.68	2.35	-2.59
25	25	24.95	0.00	-0.72	6.05	0	3.99	2	-1.93	2	-1.68	2.35	-2.58
25	26	26.40	0.00	-2.26	7.97	0	3.99	2	-1.93	2	-1.68	2.35	-2.58
26	26	26.40	0.00	-2.26	7.97	0	5.26	2	-2.55	2	-2.21	2.35	-3.40
26	27	27.85	0.00	-4.38	12.99	0	5.26	2	-2.55	2	-2.21	2.35	-3.40
27	27	27.85	0.00	-4.38	12.99	0	8.58	2	-4.15	2	-3.60	2.35	-5.54
27	28	29.30	0.00	-6.92	21.22	0	8.58	2	-4.15	2	-3.60	2.35	-5.54
28	28	29.30	-0.07	-6.92	21.22	0	14.01	2	-6.78	2	-5.89	2.35	-9.05
28	29	30.75	-0.06	-5.83	30.47	0	13.99	2	-6.80	2	-5.91	2.35	-9.07
29	29	30.75	-0.06	-5.83	30.47	0	20.10	2	-9.75	2	-8.47	2.35	-13.01
29	30	32.20	-0.05	-4.75	38.14	0	20.59	2	-6.80	2	-5.91	2.35	-10.07
30	30	32.20	0.00	-4.75	38.14	0	25.79	2	-8.50	2	-7.39	2.35	-12.60
30	31	33.65	0.00	-3.66	44.23	0	25.80	2	-8.49	2	-7.37	2.35	-12.58
31	31	33.65	0.00	-3.66	44.23	0	29.92	2	-9.84	2	-8.55	2.35	-14.59
31	32	35.10	0.00	-2.57	48.75	0	29.92	2	-9.84	2	-8.55	2.35	-14.59
32	32	35.10	0.00	-2.57	48.75	0	32.98	2	-10.85	2	-9.42	2.35	-16.08
32	33	36.55	0.00	-1.48	51.69	0	32.98	2	-10.85	2	-9.42	2.35	-16.08
33	33	36.55	0.00	-1.48	51.69	0	34.97	2	-11.50	2	-9.99	2.35	-17.05
33	34	38.00	0.00	-0.40	53.05	0	34.97	2	-11.50	2	-9.99	2.35	-17.05
34	34	38.00	0.00	-0.40	53.05	0	35.89	2	-11.80	2	-10.25	2.35	-17.50
34	35	39.45	0.00	0.69	52.83	0	35.89	2	-11.80	2	-10.25	2.35	-17.50
35	35	39.45	0.00	0.69	52.83	0	35.74	2	-11.76	2	-10.21	2.35	-17.43
35	36	40.90	0.00	1.78	51.04	0	35.74	2	-11.76	2	-10.21	2.35	-17.43
36	36	40.90	0.00	1.78	51.04	0	34.53	2	-11.36	2	-9.86	2.35	-16.84
36	37	42.35	0.00	2.87	47.67	0	34.53	2	-11.36	2	-9.86	2.35	-16.84
37	37	42.35	0.00	2.87	47.67	0	32.25	2	-10.61	2	-9.21	2.35	-15.73
37	38	43.80	0.00	3.95	42.73	0	32.25	2	-10.61	2	-9.21	2.35	-15.73
38	38	43.80	-0.04	3.95	42.73	0	28.91	2	-9.51	2	-8.26	2.35	-14.10
38	39	45.25	-0.05	5.04	36.21	0	28.90	2	-9.52	2	-8.27	2.35	-14.11
						0	24.48	2	-8.07	2	-7.01	2.35	-11.96



CÁLCULO TENSIONAL

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.MZ+.Tinf
Envolventedetrendecargasplanogenérico.MZ+). Tensiones a tiempo Tinf
PASEO.ENV_TREN_GENERICO.MZ+
inf exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-0.05	5.04	36.21	0	23.89	2	-11.58	2	-10.06	2.35	-15.45
39	40	46.70	-0.06	6.13	28.11	0	18.54	2	-9.00	2	-7.82	2.35	-12.00
40	40	46.70	0.00	6.13	28.11	0	18.56	2	-8.98	2	-7.80	2.35	-11.98
40	41	48.15	0.00	5.21	19.51	0	12.88	2	-6.23	2	-5.41	2.35	-8.32
41	41	48.15	0.00	5.21	19.51	0	12.88	2	-6.23	2	-5.41	2.35	-8.32
41	42	49.60	0.00	3.07	13.74	0	9.07	2	-4.39	2	-3.81	2.35	-5.86
42	42	49.60	0.00	3.07	13.74	0	9.07	2	-4.39	2	-3.81	2.35	-5.86
42	43	51.05	0.00	0.79	11.38	0	7.51	2	-3.64	2	-3.16	2.35	-4.85
43	43	51.05	0.00	0.79	11.38	0	7.51	2	-3.64	2	-3.16	2.35	-4.85
43	44	51.50	0.00	0.15	11.30	0	7.46	2	-3.61	2	-3.14	2.35	-4.82
44	44	51.50	0.00	0.15	11.30	0	7.46	2	-3.61	2	-3.14	2.35	-4.82
44	45	52.50	0.00	-1.19	12.04	0	7.95	2	-3.85	2	-3.34	2.35	-5.13
45	1045	52.50	0.00	1.64	12.04	0	7.95	2	-3.85	2	-3.34	2.35	-5.13
45	46	53.50	0.00	0.29	10.84	0	7.16	2	-3.46	2	-3.01	2.35	-4.62
46	46	53.50	0.00	0.29	10.84	0	7.16	2	-3.46	2	-3.01	2.35	-4.62
46	47	53.95	0.00	-0.36	10.71	0	7.07	2	-3.42	2	-2.97	2.35	-4.57
47	47	53.95	0.00	-0.36	10.71	0	7.07	2	-3.42	2	-2.97	2.35	-4.57
47	48	55.40	0.00	-2.66	12.36	0	8.16	2	-3.95	2	-3.43	2.35	-5.27
48	48	55.40	0.00	-2.66	12.36	0	8.16	2	-3.95	2	-3.43	2.35	-5.27
48	49	56.85	0.00	-4.47	17.44	0	11.51	2	-5.57	2	-4.84	2.35	-7.44
49	49	56.85	0.00	-4.47	17.44	0	11.51	2	-5.57	2	-4.84	2.35	-7.44
49	50	58.30	0.00	-6.70	25.94	0	17.13	2	-8.29	2	-7.20	2.35	-11.06
50	50	58.30	-0.06	-6.70	25.94	0	17.11	2	-8.31	2	-7.21	2.35	-11.08
50	51	59.75	-0.05	-5.61	34.87	0	23.01	2	-11.15	2	-9.69	2.35	-14.88
51	51	59.75	-0.05	-5.61	34.87	0	23.57	2	-7.78	2	-6.75	2.35	-11.52
51	52	61.20	-0.04	-4.53	42.22	0	28.55	2	-9.41	2	-8.17	2.35	-13.94
52	52	61.20	0.00	-4.53	42.22	0	28.56	2	-9.39	2	-8.16	2.35	-13.93
52	53	62.65	0.00	-3.44	47.99	0	32.47	2	-10.68	2	-9.27	2.35	-15.83
53	53	62.65	0.00	-3.44	47.99	0	32.47	2	-10.68	2	-9.27	2.35	-15.83
53	54	64.10	0.00	-2.35	52.19	0	35.31	2	-11.61	2	-10.09	2.35	-17.22
54	54	64.10	0.00	-2.35	52.19	0	35.31	2	-11.61	2	-10.09	2.35	-17.22
54	55	65.55	0.00	-1.26	54.81	0	37.08	2	-12.20	2	-10.59	2.35	-18.08
55	55	65.55	0.00	-1.26	54.81	0	37.08	2	-12.20	2	-10.59	2.35	-18.08
55	56	67.00	0.00	-0.18	55.85	0	37.79	2	-12.43	2	-10.79	2.35	-18.43
56	56	67.00	0.00	-0.18	55.85	0	37.79	2	-12.43	2	-10.79	2.35	-18.43
56	57	68.45	0.00	0.91	55.32	0	37.43	2	-12.31	2	-10.69	2.35	-18.25
57	57	68.45	0.00	0.91	55.32	0	37.43	2	-12.31	2	-10.69	2.35	-18.25
57	58	69.90	0.00	2.00	53.21	0	36.00	2	-11.84	2	-10.28	2.35	-17.55
58	58	69.90	0.00	2.00	53.21	0	36.00	2	-11.84	2	-10.28	2.35	-17.55
58	59	71.35	0.00	3.09	49.52	0	33.50	2	-11.02	2	-9.57	2.35	-16.34
59	59	71.35	0.00	3.09	49.52	0	33.50	2	-11.02	2	-9.57	2.35	-16.34
59	60	72.80	0.00	4.17	44.26	0	29.94	2	-9.85	2	-8.55	2.35	-14.60
60	60	72.80	-0.04	4.17	44.26	0	29.93	2	-9.86	2	-8.57	2.35	-14.61
60	61	74.25	-0.05	5.26	37.41	0	25.29	2	-8.34	2	-7.24	2.35	-12.36
61	61	74.25	-0.05	5.26	37.41	0	24.68	2	-11.97	2	-10.39	2.35	-15.96
61	62	75.70	-0.06	6.35	29.00	0	19.13	2	-9.28	2	-8.06	2.35	-12.38
62	62	75.70	0.00	6.35	29.00	0	19.15	2	-9.26	2	-8.05	2.35	-12.36
62	63	77.15	0.00	5.29	19.87	0	13.12	2	-6.35	2	-5.51	2.35	-8.47
63	63	77.15	0.00	5.29	19.87	0	13.12	2	-6.35	2	-5.51	2.35	-8.47
63	64	78.60	0.00	2.82	13.84	0	9.14	2	-4.42	2	-3.84	2.35	-5.90
64	64	78.60	0.00	2.82	13.84	0	9.14	2	-4.42	2	-3.84	2.35	-5.90
64	65	80.05	0.00	0.55	11.52	0	7.61	2	-3.68	2	-3.20	2.35	-4.91
65	65	80.05	0.00	0.55	11.52	0	7.61	2	-3.68	2	-3.20	2.35	-4.91
65	66	80.50	0.00	-0.09	11.51	0	7.60	2	-3.68	2	-3.19	2.35	-4.91
66	66	80.50	0.00	-0.09	11.51	0	7.60	2	-3.68	2	-3.19	2.35	-4.91
66	67	81.50	0.00	-1.43	12.46	0	8.23	2	-3.98	2	-3.46	2.35	-5.31
67	1067	81.50	0.00	1.43	12.46	0	8.23	2	-3.98	2	-3.46	2.35	-5.31
67	68	82.50	0.00	-0.10	11.42	0	7.54	2	-3.65	2	-3.17	2.35	-4.87
68	68	82.50	0.00	-0.10	11.42	0	7.54	2	-3.65	2	-3.17	2.35	-4.87
68	69	83.08	0.00	-0.74	11.43	0	7.55	2	-3.65	2	-3.17	2.35	-4.87
69	69	83.08	0.00	-0.74	11.43	0	7.55	2	-3.65	2	-3.17	2.35	-4.87
69	70	84.65	0.00	-3.23	13.89	0	9.17	2	-4.44	2	-3.85	2.35	-5.92
70	70	84.65	0.00	-3.23	13.89	0	9.17	2	-4.44	2	-3.85	2.35	-5.92
70	71	86.23	0.00	-5.20	20.42	0	13.48	2	-6.52	2	-5.67	2.35	-8.71
71	71	86.23	0.00	-5.20	20.42	0	13.48	2	-6.52	2	-5.67	2.35	-8.71
71	72	87.80	0.00	-7.09	30.65	0	20.24	2	-9.79	2	-8.50	2.35	-13.07
72	72	87.80	-0.06	-7.09	30.65	0	20.22	2	-9.81	2	-8.52	2.35	-13.08
72	73	89.38	-0.05	-5.91	40.89	0	26.98	2	-13.08	2	-11.36	2.35	-17.45
73	73	89.38	-0.05	-5.91	40.89	0	27.65	2	-9.11	2	-7.92	2.35	-13.50
73	74	90.95	-0.04	-4.73	49.26	0	33.31	2	-10.97	2	-9.53	2.35	-16.26
74	74	90.95	0.00	-4.73	49.26	0	33.33	2	-10.96	2	-9.52	2.35	-16.25
74	75	92.53	0.00	-3.55	55.78	0	37.74	2	-12.41	2	-10.78	2.35	-18.40
75	75	92.53	0.00	-3.55	55.78	0	37.74	2	-12.41	2	-10.78	2.35	-18.40
75	76	94.10	0.00	-2.37	60.43	0	40.88	2	-13.45	2	-11.68	2.35	-19.94
76	76	94.10	0.00	-2.37	60.43	0	40.88	2	-13.45	2	-11.68	2.35	-19.94
76	77	95.68	0.00	-1.18	63.23	0	42.78	2	-14.07	2	-12.22	2.35	-20.86

CÁLCULO TENSIONAL
Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.MZ+.Tinf
Envolventedetrendecargasplanogenérico.MZ+). Tensiones a tiempo Tinf
PASEO.ENV_TREN_GENERICO.MZ+
inf exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-1.18	63.23	0	42.78	2	-14.07	2	-12.22	2.35	-20.86
77	78	97.25	0.00	0.00	64.16	0	43.41	2	-14.28	2	-12.40	2.35	-21.17
78	78	97.25	0.00	0.00	64.16	0	43.41	2	-14.28	2	-12.40	2.35	-21.17
78	79	98.83	0.00	1.18	63.24	0	42.78	2	-14.07	2	-12.22	2.35	-20.86
79	79	98.83	0.00	1.18	63.24	0	42.78	2	-14.07	2	-12.22	2.35	-20.86
79	80	100.40	0.00	2.36	60.45	0	40.90	2	-13.45	2	-11.68	2.35	-19.94
80	80	100.40	0.00	2.36	60.45	0	40.90	2	-13.45	2	-11.68	2.35	-19.94
80	81	101.98	0.00	3.54	55.81	0	37.76	2	-12.42	2	-10.79	2.35	-18.41
81	81	101.98	0.00	3.54	55.81	0	37.76	2	-12.42	2	-10.79	2.35	-18.41
81	82	103.55	0.00	4.72	49.30	0	33.35	2	-10.97	2	-9.53	2.35	-16.26
82	82	103.55	-0.04	4.72	49.30	0	33.34	2	-10.98	2	-9.54	2.35	-16.28
82	83	105.13	-0.05	5.90	40.93	0	27.67	2	-9.12	2	-7.92	2.35	-13.52
83	83	105.13	-0.05	5.90	40.93	0	27.01	2	-13.09	2	-11.37	2.35	-17.46
83	84	106.70	-0.06	7.08	30.70	0	20.25	2	-9.83	2	-8.53	2.35	-13.11
84	84	106.70	0.00	7.08	30.70	0	20.27	2	-9.81	2	-8.52	2.35	-13.09
84	85	108.28	0.00	6.11	19.71	0	13.01	2	-6.30	2	-5.47	2.35	-8.40
85	85	108.28	0.00	6.11	19.71	0	13.01	2	-6.30	2	-5.47	2.35	-8.40
85	86	109.85	0.00	3.43	12.25	0	8.09	2	-3.91	2	-3.40	2.35	-5.22
86	86	109.85	0.00	3.43	12.25	0	8.09	2	-3.91	2	-3.40	2.35	-5.22
86	87	111.43	0.00	0.95	9.06	0	5.98	2	-2.89	2	-2.51	2.35	-3.86
87	87	111.43	0.00	0.95	9.06	0	5.98	2	-2.89	2	-2.51	2.35	-3.86
87	88	112.00	0.00	0.32	8.87	0	5.86	2	-2.83	2	-2.46	2.35	-3.78
88	88	112.00	0.00	0.32	8.87	0	5.86	2	-2.83	2	-2.46	2.35	-3.78
88	89	113.00	0.00	-1.20	9.66	0	6.38	2	-3.09	2	-2.68	2.35	-4.12
89	1089	113.00	0.00	0.97	9.66	0	6.38	2	-3.09	2	-2.68	2.35	-4.12
89	90	114.00	0.00	-0.55	9.10	0	6.01	2	-2.91	2	-2.52	2.35	-3.88
90	90	114.00	0.00	-0.55	9.10	0	6.01	2	-2.91	2	-2.52	2.35	-3.88
90	91	114.58	0.00	-1.18	9.42	0	6.22	2	-3.01	2	-2.61	2.35	-4.02
91	91	114.58	0.00	-1.18	9.42	0	6.22	2	-3.01	2	-2.61	2.35	-4.02
91	92	116.15	0.00	-3.64	12.99	0	8.58	2	-4.15	2	-3.60	2.35	-5.54
92	92	116.15	0.00	-3.64	12.99	0	8.58	2	-4.15	2	-3.60	2.35	-5.54
92	93	117.73	0.00	-6.29	20.81	0	13.74	2	-6.65	2	-5.77	2.35	-8.87
93	93	117.73	0.00	-6.29	20.81	0	13.74	2	-6.65	2	-5.77	2.35	-8.87
93	94	119.30	0.00	-6.74	31.66	0	20.90	2	-10.11	2	-8.78	2.35	-13.50
94	94	119.30	-0.06	-6.74	31.66	0	20.88	2	-10.13	2	-8.80	2.35	-13.51
94	95	120.88	-0.05	-5.56	41.36	0	27.29	2	-13.23	2	-11.49	2.35	-17.65
95	95	120.88	-0.05	-5.56	41.36	0	27.97	2	-9.22	2	-8.01	2.35	-13.66
95	96	122.45	-0.04	-4.38	49.19	0	33.27	2	-10.96	2	-9.52	2.35	-16.24
96	96	122.45	0.00	-4.38	49.19	0	33.28	2	-10.95	2	-9.51	2.35	-16.23
96	97	124.03	0.00	-3.20	55.16	0	37.32	2	-12.27	2	-10.66	2.35	-18.20
97	97	124.03	0.00	-3.20	55.16	0	37.32	2	-12.27	2	-10.66	2.35	-18.20
97	98	125.60	0.00	-2.02	59.27	0	40.10	2	-13.19	2	-11.45	2.35	-19.55
98	98	125.60	0.00	-2.02	59.27	0	40.10	2	-13.19	2	-11.45	2.35	-19.55
98	99	127.18	0.00	-0.84	61.52	0	41.62	2	-13.69	2	-11.89	2.35	-20.30
99	99	127.18	0.00	-0.84	61.52	0	41.62	2	-13.69	2	-11.89	2.35	-20.30
99	100	128.75	0.00	0.34	61.91	0	41.89	2	-13.78	2	-11.96	2.35	-20.42
100	100	128.75	0.00	0.34	61.91	0	41.89	2	-13.78	2	-11.96	2.35	-20.42
100	101	130.33	0.00	1.52	60.44	0	40.89	2	-13.45	2	-11.68	2.35	-19.94
101	101	130.33	0.00	1.52	60.44	0	40.89	2	-13.45	2	-11.68	2.35	-19.94
101	102	131.90	0.00	2.71	57.11	0	38.64	2	-12.71	2	-11.04	2.35	-18.84
102	102	131.90	0.00	2.71	57.11	0	38.64	2	-12.71	2	-11.04	2.35	-18.84
102	103	133.48	0.00	3.89	51.91	0	35.12	2	-11.55	2	-10.03	2.35	-17.13
103	103	133.48	0.00	3.89	51.91	0	35.12	2	-11.55	2	-10.03	2.35	-17.13
103	104	135.05	0.00	5.07	44.86	0	30.35	2	-9.98	2	-8.67	2.35	-14.80
104	104	135.05	-0.04	5.07	44.86	0	30.34	2	-10.00	2	-8.68	2.35	-14.81
104	105	136.63	-0.05	6.25	35.95	0	24.31	2	-8.02	2	-6.96	2.35	-11.87
105	105	136.63	-0.05	6.25	35.95	0	23.72	2	-11.50	2	-9.99	2.35	-15.34
105	106	138.20	-0.07	7.43	25.18	0	16.60	2	-8.07	2	-7.00	2.35	-10.75
106	106	138.20	0.00	7.43	25.18	0	16.62	2	-8.04	2	-6.99	2.35	-10.74
106	107	139.78	0.00	4.88	15.34	0	10.13	2	-4.90	2	-4.26	2.35	-6.54
107	107	139.78	0.00	4.88	15.34	0	10.13	2	-4.90	2	-4.26	2.35	-6.54
107	108	141.35	0.00	2.56	9.20	0	6.07	2	-2.94	2	-2.55	2.35	-3.92
108	108	141.35	0.00	2.56	9.20	0	6.07	2	-2.94	2	-2.55	2.35	-3.92
108	109	142.93	0.00	0.88	6.74	0	4.45	2	-2.15	2	-1.87	2.35	-2.87
109	109	142.93	0.00	0.88	6.74	0	4.45	2	-2.15	2	-1.87	2.35	-2.87
109	110	143.50	0.00	-0.87	6.69	0	4.42	2	-2.14	2	-1.86	2.35	-2.85
110	110	143.50	0.00	-0.87	6.69	0	4.42	2	-2.14	2	-1.86	2.35	-2.85
110	111	144.50	0.00	-1.28	7.62	0	5.03	2	-2.43	2	-2.11	2.35	-3.25
111	1111	144.50	0.00	0.32	7.62	0	5.03	2	-2.43	2	-2.11	2.35	-3.25
111	112	145.50	0.00	-0.64	7.79	0	5.14	2	-2.49	2	-2.16	2.35	-3.32
112	112	145.50	0.00	-0.64	7.79	0	5.14	2	-2.49	2	-2.16	2.35	-3.32
112	113	145.68	0.00	-1.31	7.96	0	5.26	2	-2.54	2	-2.21	2.35	-3.39
113	113	145.68	0.00	-1.31	7.96	0	5.26	2	-2.54	2	-2.21	2.35	-3.39
113	114	146.85	0.00	-3.30	10.53	0	6.95	2	-3.36	2	-2.92	2.35	-4.49
114	114	146.85	0.00	-3.30	10.53	0	6.95	2	-3.36	2	-2.92	2.35	-4.49
114	115	148.03	0.00	-6.27	16.12	0	10.64	2	-5.15	2	-4.47	2.35	-6.87

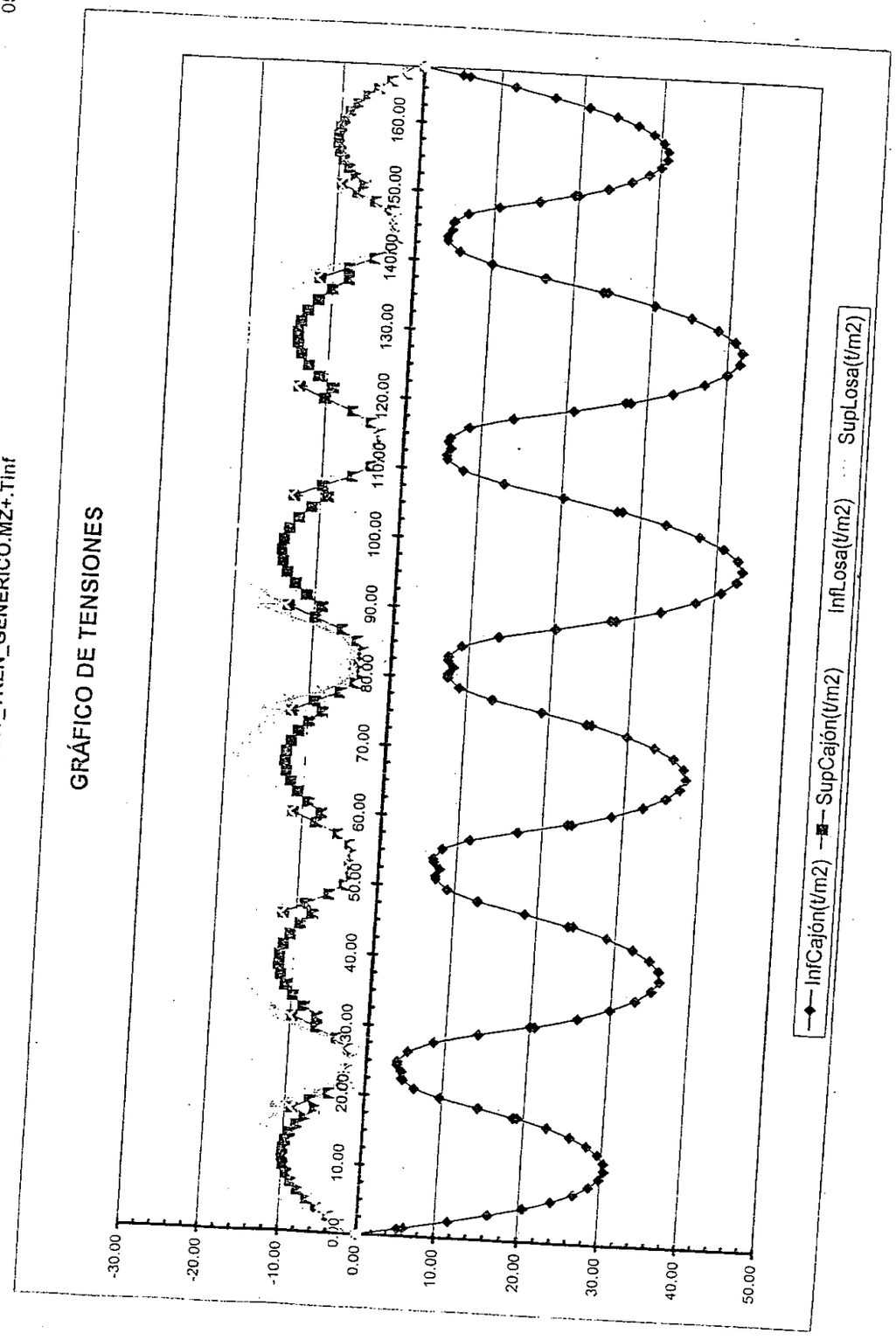
CÁLCULO TENSIONAL

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.MZ+.Tinf
Envolventedetrendecargasplanogenérico.MZ+). Tensiones a tiempo Tinf
'PASEO.ENV_TREN_GENERICO.MZ+
EXC

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	-6.27	16.12	0	10.64	2	-5.15	2	-4.47	2.35	-6.87
115	116	149.20	0.00	-5.80	23.43	0	15.47	2	-7.48	2	-6.50	2.35	-9.99
116	116	149.20	-0.07	-5.80	23.43	0	15.45	2	-7.51	2	-6.52	2.35	-10.01
116	117	150.38	-0.06	-4.92	29.73	0	19.61	2	-9.52	2	-8.26	2.35	-12.69
117	117	150.38	-0.06	-4.92	29.73	0	20.09	2	-6.63	2	-5.76	2.35	-9.83
117	118	151.55	-0.05	-4.04	35.00	0	23.66	2	-7.80	2	-6.78	2.35	-11.56
118	118	151.55	0.00	-4.04	35.00	0	23.68	2	-7.79	2	-6.76	2.35	-11.55
118	119	152.73	0.00	-3.16	39.23	0	26.54	2	-8.73	2	-7.58	2.35	-12.94
119	119	152.73	0.00	-3.16	39.23	0	26.54	2	-8.73	2	-7.58	2.35	-12.94
119	120	153.90	0.00	-2.28	42.42	0	28.70	2	-9.44	2	-8.20	2.35	-13.99
120	120	153.90	0.00	-2.28	42.42	0	28.70	2	-9.44	2	-8.20	2.35	-13.99
120	121	155.08	0.00	-1.40	44.58	0	30.16	2	-9.92	2	-8.62	2.35	-14.71
121	121	155.08	0.00	-1.40	44.58	0	30.16	2	-9.92	2	-8.62	2.35	-14.71
121	122	156.25	0.00	-0.52	45.71	0	30.93	2	-10.17	2	-8.83	2.35	-15.08
122	122	156.25	0.00	-0.52	45.71	0	30.93	2	-10.17	2	-8.83	2.35	-15.08
122	123	157.43	0.00	0.36	45.80	0	30.99	2	-10.19	2	-8.85	2.35	-15.11
123	123	157.43	0.00	0.36	45.80	0	30.99	2	-10.19	2	-8.85	2.35	-15.11
123	124	158.60	0.00	1.25	44.85	0	30.34	2	-9.98	2	-8.67	2.35	-14.80
124	124	158.60	0.00	1.25	44.85	0	30.34	2	-9.98	2	-8.67	2.35	-14.80
124	125	159.78	0.00	2.13	42.87	0	29.00	2	-9.54	2	-8.28	2.35	-14.14
125	125	159.78	0.00	2.13	42.87	0	29.00	2	-9.54	2	-8.28	2.35	-14.14
125	126	160.95	0.00	3.01	39.85	0	26.96	2	-8.87	2	-7.70	2.35	-13.15
126	126	160.95	0.00	3.01	39.85	0	26.96	2	-8.87	2	-7.70	2.35	-13.15
126	127	162.13	0.00	3.89	35.80	0	24.22	2	-7.97	2	-6.92	2.35	-11.81
127	127	162.13	0.00	3.89	35.80	0	24.22	2	-7.97	2	-6.92	2.35	-11.81
127	128	163.30	0.00	4.77	30.71	0	20.78	2	-6.83	2	-5.93	2.35	-10.13
128	128	163.30	0.00	4.77	30.71	0	20.78	2	-6.83	2	-5.93	2.35	-10.13
128	129	164.48	0.00	5.65	24.58	0	16.63	2	-5.47	2	-4.75	2.35	-8.11
129	129	164.48	0.00	5.65	24.58	0	16.63	2	-5.47	2	-4.75	2.35	-8.11
129	130	165.65	0.00	6.53	17.43	0	11.79	2	-3.88	2	-3.37	2.35	-5.75
130	130	165.65	0.00	6.53	17.43	0	11.79	2	-3.88	2	-3.37	2.35	-5.75
130	131	166.83	0.00	7.42	9.23	0	6.24	2	-2.05	2	-1.78	2.35	-3.05
131	131	166.83	0.00	7.42	9.23	0	6.24	2	-2.05	2	-1.78	2.35	-3.05
131	132	167.00	0.00	7.55	7.92	0	5.36	2	-1.76	2	-1.53	2.35	-2.61
132	132	167.00	0.00	7.55	7.92	0	5.36	2	-1.76	2	-1.53	2.35	-2.61
132	133	168.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

Programa DINTEL IDEAM S.A.
PASEO.ENV_TREN_GENERICO.MZ+.Tinf

GRÁFICO DE TENSIONES



hsim_linf.xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.MZ-.Tinf
Envolventedetrendecargasplanogenérico.MZ-). Tensiones a tiempo Tinf
(PASEO.ENV_TREN_GENERICO.MZ-
Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	1.34	-1.34	0	-0.91	2	0.30	2	0.26	2.35	0.44
2	2	1.00	0.00	1.34	-1.34	0	-0.91	2	0.30	2	0.26	2.35	0.44
2	3	1.18	0.00	1.34	-1.58	0	-1.07	2	0.35	2	0.31	2.35	0.52
3	3	1.18	0.00	1.34	-1.58	0	-1.07	2	0.35	2	0.31	2.35	0.52
3	4	2.35	0.00	1.34	-3.15	0	-2.13	2	0.70	2	0.61	2.35	1.04
4	4	2.35	0.00	1.34	-3.15	0	-2.13	2	0.70	2	0.61	2.35	1.04
4	5	3.53	0.00	1.34	-4.73	0	-3.20	2	1.05	2	0.91	2.35	1.56
5	5	3.53	0.00	1.34	-4.73	0	-3.20	2	1.05	2	0.91	2.35	1.56
5	6	4.70	0.00	1.34	-6.31	0	-4.27	2	1.40	2	1.22	2.35	2.08
6	6	4.70	0.00	1.34	-6.31	0	-4.27	2	1.40	2	1.22	2.35	2.08
6	7	5.88	0.00	1.34	-7.88	0	-5.33	2	1.75	2	1.52	2.35	2.60
7	7	5.88	0.00	1.34	-7.88	0	-5.33	2	1.75	2	1.52	2.35	2.60
7	8	7.05	0.00	1.34	-9.46	0	-6.40	2	2.10	2	1.83	2.35	3.12
8	8	7.05	0.00	1.34	-9.46	0	-6.40	2	2.10	2	1.83	2.35	3.12
8	9	8.23	0.00	1.34	-11.04	0	-7.47	2	2.46	2	2.13	2.35	3.64
9	9	8.23	0.00	1.34	-11.04	0	-7.47	2	2.46	2	2.13	2.35	3.64
9	10	9.40	0.00	1.34	-12.61	0	-8.53	2	2.81	2	2.44	2.35	4.16
10	10	9.40	0.00	1.34	-12.61	0	-8.53	2	2.81	2	2.44	2.35	4.16
10	11	10.58	0.00	1.34	-14.19	0	-9.60	2	3.16	2	2.74	2.35	4.68
11	11	10.58	0.00	1.34	-14.19	0	-9.60	2	3.16	2	2.74	2.35	4.68
11	12	11.75	0.00	1.34	-15.77	0	-10.67	2	3.51	2	3.05	2.35	5.20
12	12	11.75	0.00	1.34	-15.77	0	-10.67	2	3.51	2	3.05	2.35	5.20
12	13	12.93	0.00	1.34	-17.34	0	-11.73	2	3.86	2	3.35	2.35	5.72
13	13	12.93	0.00	1.34	-17.34	0	-11.73	2	3.86	2	3.35	2.35	5.72
13	14	14.10	0.00	1.34	-18.92	0	-12.80	2	4.21	2	3.66	2.35	6.24
14	14	14.10	0.00	1.34	-18.92	0	-12.80	2	4.21	2	3.66	2.35	6.24
14	15	15.28	0.00	1.34	-20.50	0	-13.87	2	4.56	2	3.96	2.35	6.76
15	15	15.28	0.00	1.34	-20.50	0	-13.87	2	4.56	2	3.96	2.35	6.76
15	16	16.45	0.00	1.34	-22.07	0	-14.93	2	4.91	2	4.27	2.35	7.28
16	16	16.45	-0.02	1.34	-22.07	0	-14.94	2	4.90	2	4.26	2.35	7.28
16	17	17.63	-0.02	1.34	-23.65	0	-16.01	2	5.26	2	4.56	2.35	7.80
17	17	17.63	-0.02	1.34	-23.65	0	-15.62	2	7.55	2	6.56	2.35	10.08
17	18	18.80	-0.02	1.34	-25.23	0	-16.66	2	8.05	2	6.99	2.35	10.75
18	18	18.80	0.00	1.34	-25.23	0	-16.66	2	8.06	2	7.00	2.35	10.76
18	19	19.98	0.00	2.28	-26.99	0	-17.82	2	8.62	2	7.49	2.35	11.51
19	19	19.98	0.00	2.28	-26.99	0	-17.82	2	8.62	2	7.49	2.35	11.51
19	20	21.15	0.00	5.65	-31.94	0	-21.09	2	10.20	2	8.86	2.35	13.62
20	20	21.15	0.00	5.65	-31.94	0	-21.09	2	10.20	2	8.86	2.35	13.62
20	21	22.33	0.00	8.52	-40.61	0	-26.81	2	12.97	2	11.27	2.35	17.31
21	21	22.33	0.00	8.52	-40.61	0	-26.81	2	12.97	2	11.27	2.35	17.31
21	22	22.50	0.00	9.33	-42.19	0	-27.86	2	13.48	2	11.71	2.35	17.99
22	22	22.50	0.00	9.33	-42.19	0	-27.86	2	13.48	2	11.71	2.35	17.99
22	23	23.50	0.00	11.04	-52.37	0	-34.58	2	16.73	2	14.53	2.35	22.33
23	1023	23.50	0.00	-12.14	-52.37	0	-34.58	2	16.73	2	14.53	2.35	22.33
( )	24	24.50	0.00	-10.05	-41.01	0	-27.08	2	13.10	2	11.38	2.35	17.49
24	24	24.50	0.00	-10.05	-41.01	0	-27.08	2	13.10	2	11.38	2.35	17.49
25	25	24.95	0.00	-9.06	-36.52	0	-24.11	2	11.67	2	10.13	2.35	15.57
25	25	24.95	0.00	-9.06	-36.52	0	-24.11	2	11.67	2	10.13	2.35	15.57
25	26	26.40	0.00	-6.43	-25.05	0	-16.54	2	8.00	2	6.95	2.35	10.68
26	26	26.40	0.00	-6.43	-25.05	0	-16.54	2	8.00	2	6.95	2.35	10.68
26	27	27.85	0.00	-3.22	-18.24	0	-12.04	2	5.83	2	5.06	2.35	7.78
27	27	27.85	0.00	-3.22	-18.24	0	-12.04	2	5.83	2	5.06	2.35	7.78
27	28	29.30	0.00	0.40	-16.23	0	-10.72	2	5.18	2	4.50	2.35	6.92
28	28	29.30	0.00	0.40	-16.23	0	-10.72	2	5.18	2	4.50	2.35	6.92
28	29	30.75	0.00	0.40	-16.81	0	-11.10	2	5.37	2	4.66	2.35	7.17
29	29	30.75	0.00	0.40	-16.81	0	-11.37	2	3.74	2	3.25	2.35	5.55
29	30	32.20	0.00	0.40	-17.40	0	-11.77	2	3.87	2	3.35	2.35	5.74
30	30	32.20	0.00	0.40	-17.40	0	-11.77	2	3.87	2	3.36	2.35	5.74
30	31	33.65	0.00	0.40	-17.98	0	-12.16	2	4.00	2	3.47	2.35	5.93
31	31	33.65	0.00	0.40	-17.98	0	-12.16	2	4.00	2	3.47	2.35	5.93
31	32	35.10	0.00	0.40	-18.56	0	-12.56	2	4.13	2	3.59	2.35	6.12
32	32	35.10	0.00	0.40	-18.56	0	-12.56	2	4.13	2	3.59	2.35	6.12
32	33	36.55	0.00	0.40	-19.14	0	-12.95	2	4.26	2	3.70	2.35	6.31
33	33	36.55	0.00	0.40	-19.14	0	-12.95	2	4.26	2	3.70	2.35	6.31
33	34	38.00	0.00	0.40	-19.72	0	-13.34	2	4.39	2	3.81	2.35	6.51
34	34	38.00	0.00	0.40	-19.72	0	-13.34	2	4.39	2	3.81	2.35	6.51
34	35	39.45	0.00	0.40	-20.30	0	-13.73	2	4.52	2	3.92	2.35	6.70
35	35	39.45	0.00	0.40	-20.30	0	-13.73	2	4.52	2	3.92	2.35	6.70
35	36	40.90	0.00	0.40	-20.88	0	-14.13	2	4.65	2	4.04	2.35	6.89
36	36	40.90	0.00	0.40	-20.88	0	-14.13	2	4.65	2	4.04	2.35	6.89
37	37	42.35	0.00	0.40	-21.46	0	-14.52	2	4.78	2	4.15	2.35	7.08
37	37	42.35	0.00	0.40	-21.46	0	-14.52	2	4.78	2	4.15	2.35	7.08
38	38	43.80	0.00	0.40	-22.05	0	-14.92	2	4.91	2	4.26	2.35	7.27
38	38	43.80	0.00	0.40	-22.05	0	-14.92	2	4.91	2	4.26	2.35	7.27
	39	45.25	0.00	0.40	-22.63	0	-15.31	2	5.04	2	4.37	2.35	7.47

CÁLCULO TENSIONAL
Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.MZ-.Tinf
Envolventedetrendecargasplanogenérico.MZ-). Tensiones a tiempo Tinf
(..1)PASEO.ENV_TREN_GENERICO.MZ-
Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	0.00	0.40	-22.63	0	-14.94	2	7.23	2	6.28	2.35	9.65
39	40	46.70	0.00	0.40	-23.21	0	-15.32	2	7.41	2	6.44	2.35	9.90
40	40	46.70	0.00	0.40	-23.21	0	-15.32	2	7.41	2	6.44	2.35	9.90
40	41	48.15	0.00	2.41	-24.86	0	-16.41	2	7.94	2	6.90	2.35	10.60
41	41	48.15	0.00	2.41	-24.86	0	-16.41	2	7.94	2	6.90	2.35	10.60
41	42	49.60	0.00	5.64	-30.93	0	-20.42	2	9.88	2	8.58	2.35	13.19
42	42	49.60	0.00	5.64	-30.93	0	-20.42	2	9.88	2	8.58	2.35	13.19
42	43	51.05	0.00	9.00	-41.98	0	-27.72	2	13.41	2	11.65	2.35	17.90
43	43	51.05	0.00	9.00	-41.98	0	-27.72	2	13.41	2	11.65	2.35	17.90
43	44	51.50	0.00	9.98	-46.38	0	-30.62	2	14.82	2	12.87	2.35	19.77
44	44	51.50	0.00	9.98	-46.38	0	-30.62	2	14.82	2	12.87	2.35	19.77
44	45	52.50	0.00	12.07	-57.63	0	-38.05	2	18.41	2	15.99	2.35	24.57
45	1045	52.50	0.00	-12.38	-57.63	0	-38.05	2	18.41	2	15.99	2.35	24.57
45	46	53.50	0.00	-10.28	-46.06	0	-30.41	2	14.71	2	12.78	2.35	19.64
46	46	53.50	0.00	-10.28	-46.06	0	-30.41	2	14.71	2	12.78	2.35	19.64
46	47	53.95	0.00	-9.30	-41.51	0	-27.41	2	13.26	2	11.52	2.35	17.70
47	47	53.95	0.00	-9.30	-41.51	0	-27.41	2	13.26	2	11.52	2.35	17.70
47	48	55.40	0.00	-5.91	-29.94	0	-19.77	2	9.56	2	8.31	2.35	12.77
48	48	55.40	0.00	-5.91	-29.94	0	-19.77	2	9.56	2	8.31	2.35	12.77
48	49	56.85	0.00	-3.01	-23.39	0	-15.44	2	7.47	2	6.49	2.35	9.97
49	49	56.85	0.00	-3.01	-23.39	0	-15.44	2	7.47	2	6.49	2.35	9.97
49	50	58.30	0.00	0.30	-21.83	0	-14.41	2	6.97	2	6.06	2.35	9.31
50	50	58.30	0.00	0.30	-21.83	0	-14.41	2	6.97	2	6.06	2.35	9.31
50	51	59.75	0.00	0.30	-22.27	0	-14.70	2	7.11	2	6.18	2.35	9.50
51	51	59.75	0.00	0.30	-22.27	0	-15.07	2	4.96	2	4.30	2.35	7.35
51	52	61.20	0.00	0.30	-22.71	0	-15.36	2	5.05	2	4.39	2.35	7.49
52	52	61.20	0.00	0.30	-22.71	0	-15.36	2	5.05	2	4.39	2.35	7.49
52	53	62.65	0.00	0.30	-23.15	0	-15.66	2	5.15	2	4.47	2.35	7.64
53	53	62.65	0.00	0.30	-23.15	0	-15.66	2	5.15	2	4.47	2.35	7.64
53	54	64.10	0.00	0.30	-23.60	0	-15.97	2	5.25	2	4.56	2.35	7.79
54	54	64.10	0.00	0.30	-23.60	0	-15.97	2	5.25	2	4.56	2.35	7.79
54	55	65.55	0.00	0.30	-24.04	0	-16.26	2	5.35	2	4.65	2.35	7.93
55	55	65.55	0.00	0.30	-24.04	0	-16.26	2	5.35	2	4.65	2.35	7.93
55	56	67.00	0.00	0.30	-24.48	0	-16.56	2	5.45	2	4.73	2.35	8.08
56	56	67.00	0.00	0.30	-24.48	0	-16.56	2	5.45	2	4.73	2.35	8.08
56	57	68.45	0.00	0.30	-24.92	0	-16.86	2	5.54	2	4.82	2.35	8.22
57	57	68.45	0.00	0.30	-24.92	0	-16.86	2	5.54	2	4.82	2.35	8.22
57	58	69.90	0.00	0.30	-25.37	0	-17.16	2	5.65	2	4.90	2.35	8.37
58	58	69.90	0.00	0.30	-25.37	0	-17.16	2	5.65	2	4.90	2.35	8.37
58	59	71.35	0.00	0.30	-25.81	0	-17.46	2	5.74	2	4.99	2.35	8.51
59	59	71.35	0.00	0.30	-25.81	0	-17.46	2	5.74	2	4.99	2.35	8.51
59	60	72.80	0.00	0.30	-26.25	0	-17.76	2	5.84	2	5.07	2.35	8.66
60	60	72.80	0.00	0.30	-26.25	0	-17.76	2	5.84	2	5.07	2.35	8.66
60	61	74.25	0.00	0.30	-26.69	0	-18.06	2	5.94	2	5.16	2.35	8.81
61	61	74.25	0.00	0.30	-26.69	0	-17.62	2	8.53	2	7.41	2.35	11.38
61	62	75.70	0.00	0.30	-27.14	0	-17.92	2	8.67	2	7.53	2.35	11.57
62	62	75.70	0.00	0.30	-27.14	0	-17.92	2	8.67	2	7.53	2.35	11.57
62	63	77.15	0.00	2.46	-28.44	0	-18.78	2	9.09	2	7.89	2.35	12.13
63	63	77.15	0.00	2.46	-28.44	0	-18.78	2	9.09	2	7.89	2.35	12.13
63	64	78.60	0.00	6.01	-34.43	0	-22.73	2	11.00	2	9.55	2.35	14.68
64	64	78.60	0.00	6.01	-34.43	0	-22.73	2	11.00	2	9.55	2.35	14.68
64	65	80.05	0.00	9.37	-45.70	0	-30.17	2	14.60	2	12.68	2.35	19.48
65	65	80.05	0.00	9.37	-45.70	0	-30.17	2	14.60	2	12.68	2.35	19.48
65	66	80.50	0.00	10.34	-50.23	0	-33.16	2	16.05	2	13.94	2.35	21.42
66	66	80.50	0.00	10.34	-50.23	0	-33.16	2	16.05	2	13.94	2.35	21.42
66	67	81.50	0.00	12.44	-61.81	0	-40.81	2	19.75	2	17.15	2.35	26.35
67	1067	81.50	0.00	-13.08	-61.81	0	-40.81	2	19.75	2	17.15	2.35	26.35
67	68	82.50	0.00	-10.80	-49.49	0	-32.67	2	15.81	2	13.73	2.35	21.10
68	68	82.50	0.00	-10.80	-49.49	0	-32.67	2	15.81	2	13.73	2.35	21.10
68	69	83.08	0.00	-9.73	-43.36	0	-28.63	2	13.85	2	12.03	2.35	18.49
69	69	83.08	0.00	-9.73	-43.36	0	-28.63	2	13.85	2	12.03	2.35	18.49
69	70	84.65	0.00	-6.05	-30.27	0	-19.99	2	9.67	2	8.40	2.35	12.91
70	70	84.65	0.00	-6.05	-30.27	0	-19.99	2	9.67	2	8.40	2.35	12.91
70	71	86.23	0.00	-2.91	-23.10	0	-15.25	2	7.38	2	6.41	2.35	9.85
71	71	86.23	0.00	-2.91	-23.10	0	-15.25	2	7.38	2	6.41	2.35	9.85
71	72	87.80	0.00	0.17	-21.50	0	-14.19	2	6.87	2	5.97	2.35	9.17
72	72	87.80	0.00	0.17	-21.50	0	-14.19	2	6.87	2	5.97	2.35	9.17
72	73	89.38	0.00	0.17	-21.76	0	-14.37	2	6.95	2	6.04	2.35	9.28
73	73	89.38	0.00	0.17	-21.76	0	-14.72	2	4.84	2	4.21	2.35	7.18
73	74	90.95	0.00	0.17	-22.02	0	-14.90	2	4.90	2	4.26	2.35	7.26
74	74	90.95	0.00	0.17	-22.02	0	-14.90	2	4.90	2	4.26	2.35	7.26
74	75	92.53	0.00	0.17	-22.29	0	-15.08	2	4.96	2	4.31	2.35	7.35
75	75	92.53	0.00	0.17	-22.29	0	-15.08	2	4.96	2	4.31	2.35	7.35
75	76	94.10	0.00	0.17	-22.55	0	-15.26	2	5.02	2	4.36	2.35	7.44
76	76	94.10	0.00	0.17	-22.55	0	-15.26	2	5.02	2	4.36	2.35	7.44
76	77	95.68	0.00	0.17	-22.81	0	-15.43	2	5.08	2	4.41	2.35	7.52

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.MZ-.Tinf
Envolventedetrendecargasplanogenérico.MZ-). Tensiones a tiempo Tinf
)PASEO.ENV_TREN_GENERICO.MZ-
Coef. exc:

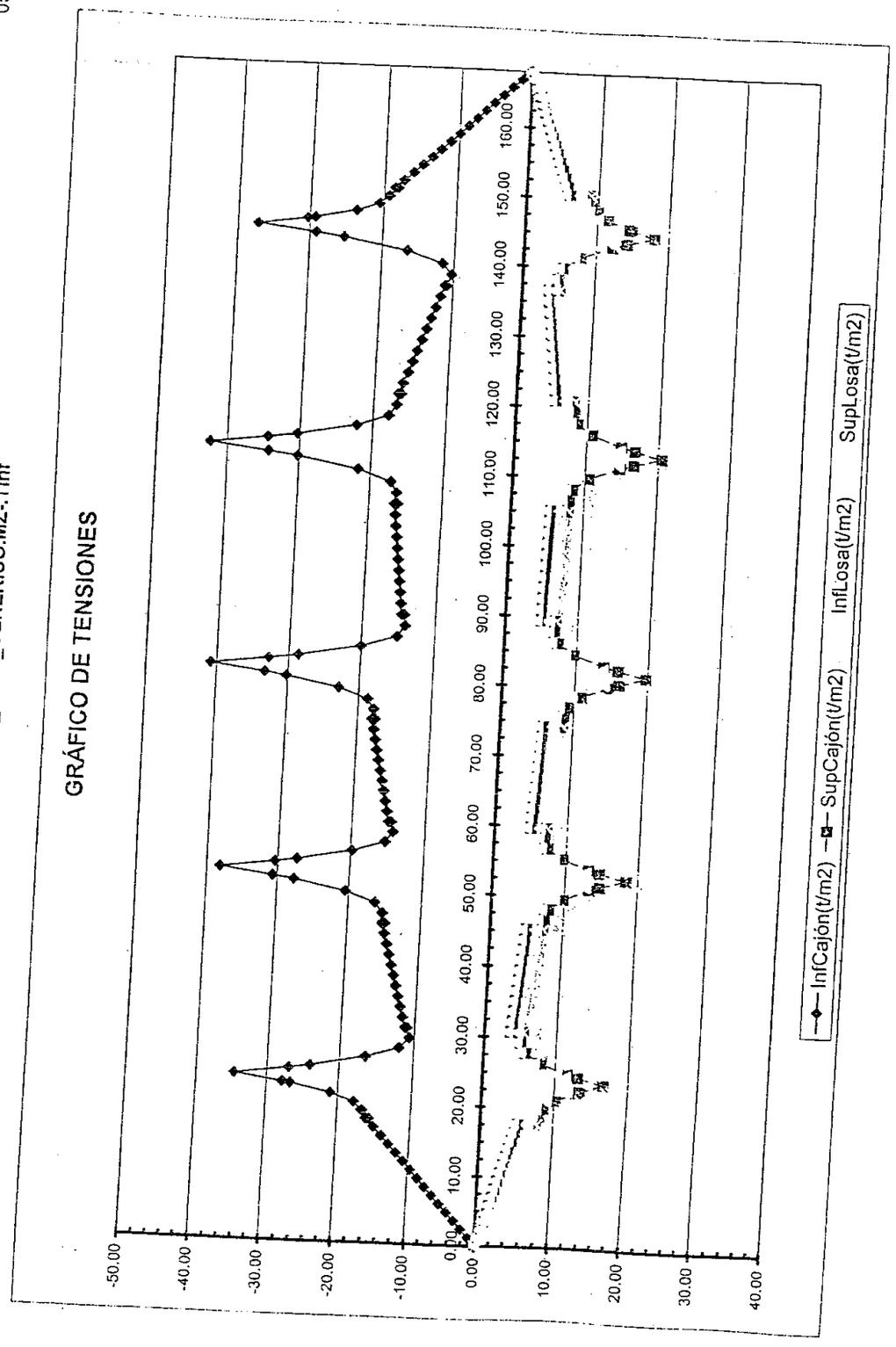
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	0.17	-22.81	0	-15.43	2	5.08	2	4.41	2.35	7.53
77	78	97.25	0.00	0.17	-23.08	0	-15.61	2	5.14	2	4.46	2.35	7.61
78	78	97.25	0.00	0.17	-23.08	0	-15.61	2	5.14	2	4.46	2.35	7.61
78	79	98.83	0.00	0.17	-23.34	0	-15.79	2	5.19	2	4.51	2.35	7.70
79	79	98.83	0.00	0.17	-23.34	0	-15.79	2	5.19	2	4.51	2.35	7.70
79	80	100.40	0.00	0.17	-23.60	0	-15.97	2	5.25	2	4.56	2.35	7.79
80	80	100.40	0.00	0.17	-23.60	0	-15.97	2	5.25	2	4.56	2.35	7.79
80	81	101.98	0.00	0.17	-23.87	0	-16.15	2	5.31	2	4.61	2.35	7.87
81	81	101.98	0.00	0.17	-23.87	0	-16.15	2	5.31	2	4.61	2.35	7.87
81	82	103.55	0.00	0.17	-24.13	0	-16.33	2	5.37	2	4.66	2.35	7.96
82	82	103.55	0.00	0.17	-24.13	0	-16.33	2	5.37	2	4.66	2.35	7.96
82	83	105.13	0.00	0.17	-24.39	0	-16.50	2	5.43	2	4.71	2.35	8.05
83	83	105.13	0.00	0.17	-24.39	0	-16.10	2	7.79	2	6.77	2.35	10.40
83	84	106.70	0.00	0.17	-24.66	0	-16.28	2	7.88	2	6.84	2.35	10.51
84	84	106.70	0.00	0.17	-24.66	0	-16.28	2	7.88	2	6.84	2.35	10.51
84	85	108.28	0.00	2.32	-26.01	0	-17.17	2	8.31	2	7.22	2.35	11.09
85	85	108.28	0.00	2.32	-26.01	0	-17.17	2	8.31	2	7.22	2.35	11.09
85	86	109.85	0.00	6.19	-32.76	0	-21.63	2	10.47	2	9.09	2.35	13.97
86	86	109.85	0.00	6.19	-32.76	0	-21.63	2	10.47	2	9.09	2.35	13.97
86	87	111.43	0.00	9.84	-45.65	0	-30.14	2	14.58	2	12.67	2.35	19.46
7	87	111.43	0.00	9.84	-45.65	0	-30.14	2	14.58	2	12.67	2.35	19.46
87	88	112.00	0.00	10.90	-51.79	0	-34.19	2	16.54	2	14.37	2.35	22.08
88	88	112.00	0.00	10.90	-51.79	0	-34.19	2	16.54	2	14.37	2.35	22.08
88	89	113.00	0.00	13.18	-64.18	0	-42.37	2	20.50	2	17.81	2.35	27.36
89	1089	113.00	0.00	-12.97	-64.18	0	-42.37	2	20.50	2	17.81	2.35	27.36
89	90	114.00	0.00	-10.70	-52.00	0	-34.33	2	16.61	2	14.43	2.35	22.17
90	90	114.00	0.00	-10.70	-52.00	0	-34.33	2	16.61	2	14.43	2.35	22.17
90	91	114.58	0.00	-9.64	-45.97	0	-30.35	2	14.69	2	12.75	2.35	19.60
91	91	114.58	0.00	-9.64	-45.97	0	-30.35	2	14.69	2	12.75	2.35	19.60
91	92	116.15	0.00	-6.00	-33.43	0	-22.07	2	10.68	2	9.28	2.35	14.25
92	92	116.15	0.00	-6.00	-33.43	0	-22.07	2	10.68	2	9.28	2.35	14.25
92	93	117.73	0.00	-2.16	-27.01	0	-17.83	2	8.63	2	7.49	2.35	11.52
93	93	117.73	0.00	-2.16	-27.01	0	-17.83	2	8.63	2	7.49	2.35	11.52
93	94	119.30	0.00	-0.53	-25.48	0	-16.82	2	8.14	2	7.07	2.35	10.86
94	94	119.30	0.00	-0.53	-25.48	0	-16.82	2	8.14	2	7.07	2.35	10.86
94	95	120.88	0.00	-0.53	-24.64	0	-16.27	2	7.87	2	6.84	2.35	10.51
95	95	120.88	0.00	-0.53	-24.64	0	-16.67	2	5.48	2	4.76	2.35	8.13
95	96	122.45	0.00	-0.53	-23.81	0	-16.11	2	5.30	2	4.60	2.35	7.86
96	96	122.45	0.00	-0.53	-23.81	0	-16.11	2	5.30	2	4.60	2.35	7.86
96	97	124.03	0.00	-0.53	-22.97	0	-15.54	2	5.11	2	4.44	2.35	7.58
97	97	124.03	0.00	-0.53	-22.97	0	-15.54	2	5.11	2	4.44	2.35	7.58
97	98	125.60	0.00	-0.53	-22.14	0	-14.98	2	4.93	2	4.28	2.35	7.30
98	98	125.60	0.00	-0.53	-22.14	0	-14.98	2	4.93	2	4.28	2.35	7.30
98	99	127.18	0.00	-0.53	-21.31	0	-14.42	2	4.74	2	4.12	2.35	7.03
99	99	127.18	0.00	-0.53	-21.31	0	-14.42	2	4.74	2	4.12	2.35	7.03
(	100	128.75	0.00	-0.53	-20.47	0	-13.85	2	4.55	2	3.96	2.35	6.75
)	100	128.75	0.00	-0.53	-20.47	0	-13.85	2	4.55	2	3.96	2.35	6.75
101	101	130.33	0.00	-0.53	-19.64	0	-13.29	2	4.37	2	3.80	2.35	6.48
101	102	131.90	0.00	-0.53	-19.64	0	-13.29	2	4.37	2	3.80	2.35	6.48
102	102	131.90	0.00	-0.53	-18.80	0	-12.72	2	4.18	2	3.63	2.35	6.20
102	103	133.48	0.00	-0.53	-18.80	0	-12.72	2	4.18	2	3.63	2.35	6.20
103	103	133.48	0.00	-0.53	-17.97	0	-12.16	2	4.00	2	3.47	2.35	5.93
103	104	135.05	0.00	-0.53	-17.97	0	-12.16	2	4.00	2	3.47	2.35	5.93
104	104	135.05	0.00	-0.53	-17.14	0	-11.60	2	3.81	2	3.31	2.35	5.65
104	105	136.63	0.00	-0.53	-17.14	0	-11.60	2	3.81	2	3.31	2.35	5.65
105	105	136.63	0.00	-0.53	-16.30	0	-11.03	2	3.63	2	3.15	2.35	5.38
105	106	138.20	0.00	-0.53	-16.30	0	-10.76	2	5.21	2	4.52	2.35	6.95
106	106	138.20	0.00	-0.53	-15.47	0	-10.21	2	4.94	2	4.29	2.35	6.60
106	107	139.78	0.00	-0.53	-15.47	0	-10.21	2	4.94	2	4.29	2.35	6.60
107	107	139.78	0.00	3.20	-17.43	0	-11.51	2	5.57	2	4.84	2.35	7.43
107	108	141.35	0.00	3.20	-17.43	0	-11.51	2	5.57	2	4.84	2.35	7.43
108	108	141.35	0.00	6.70	-24.95	0	-16.47	2	7.97	2	6.92	2.35	10.64
108	109	142.93	0.00	6.70	-24.95	0	-16.47	2	7.97	2	6.92	2.35	10.64
109	109	142.93	0.00	9.56	-38.01	0	-25.10	2	12.14	2	10.55	2.35	16.21
109	110	143.50	0.00	9.56	-38.01	0	-25.10	2	12.14	2	10.55	2.35	16.21
110	110	143.50	0.00	11.75	-44.09	0	-29.11	2	14.08	2	12.23	2.35	18.80
110	111	144.50	0.00	11.75	-44.09	0	-29.11	2	14.08	2	12.23	2.35	18.80
111	1111	144.50	0.00	12.91	-56.27	0	-37.15	2	17.98	2	15.61	2.35	23.99
111	112	145.50	0.00	-11.21	-56.27	0	-37.15	2	17.98	2	15.61	2.35	23.99
2	112	145.50	0.00	-9.50	-45.94	0	-30.33	2	14.68	2	12.75	2.35	19.59
2	113	145.68	0.00	-9.50	-45.94	0	-30.33	2	14.68	2	12.75	2.35	19.59
113	113	145.68	0.00	-8.69	-44.34	0	-29.27	2	14.16	2	12.30	2.35	18.90
113	114	146.85	0.00	-8.69	-44.34	0	-29.27	2	14.16	2	12.30	2.35	18.90
14	114	146.85	0.00	-5.82	-35.68	0	-23.56	2	11.40	2	9.90	2.35	15.21
14	115	148.03	0.00	-5.82	-35.68	0	-23.56	2	11.40	2	9.90	2.35	15.21
			0.00	-1.97	-31.07	0	-20.51	2	9.93	2	8.62	2.35	13.25

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)PASEO.ENV_TREN_GENERICO.MZ-
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	-1.97	-31.07	0	-20.51	2	9.93	2	8.62	2.35	13.25
115	116	149.20	0.00	-1.55	-29.22	0	-19.29	2	9.33	2	8.11	2.35	12.46
116	116	149.20	-0.02	-1.55	-29.22	0	-19.30	2	9.33	2	8.10	2.35	12.45
116	117	150.38	-0.02	-1.55	-27.39	0	-18.09	2	8.74	2	7.59	2.35	11.67
117	117	150.38	-0.02	-1.55	-27.39	0	-18.54	2	6.09	2	5.29	2.35	9.03
117	118	151.55	-0.02	-1.55	-25.57	0	-17.31	2	5.68	2	4.94	2.35	8.43
118	118	151.55	0.00	-1.55	-25.57	0	-17.30	2	5.69	2	4.94	2.35	8.44
118	119	152.73	0.00	-1.55	-23.74	0	-16.06	2	5.28	2	4.59	2.35	7.83
119	119	152.73	0.00	-1.55	-23.74	0	-16.06	2	5.28	2	4.59	2.35	7.83
119	120	153.90	0.00	-1.55	-21.91	0	-14.82	2	4.88	2	4.23	2.35	7.23
120	120	153.90	0.00	-1.55	-21.91	0	-14.82	2	4.88	2	4.23	2.35	7.23
120	121	155.08	0.00	-1.55	-20.09	0	-13.59	2	4.47	2	3.88	2.35	6.63
121	121	155.08	0.00	-1.55	-20.09	0	-13.59	2	4.47	2	3.88	2.35	6.63
121	122	156.25	0.00	-1.55	-18.26	0	-12.35	2	4.06	2	3.53	2.35	6.02
122	122	156.25	0.00	-1.55	-18.26	0	-12.35	2	4.06	2	3.53	2.35	6.02
122	123	157.43	0.00	-1.55	-16.43	0	-11.12	2	3.66	2	3.18	2.35	5.42
123	123	157.43	0.00	-1.55	-16.43	0	-11.12	2	3.66	2	3.18	2.35	5.42
123	124	158.60	0.00	-1.55	-14.61	0	-9.88	2	3.25	2	2.82	2.35	4.82
124	124	158.60	0.00	-1.55	-14.61	0	-9.88	2	3.25	2	2.82	2.35	4.82
124	125	159.78	0.00	-1.55	-12.78	0	-8.65	2	2.84	2	2.47	2.35	4.22
125	125	159.78	0.00	-1.55	-12.78	0	-8.65	2	2.84	2	2.47	2.35	4.22
125	126	160.95	0.00	-1.55	-10.96	0	-7.41	2	2.44	2	2.12	2.35	3.62
126	126	160.95	0.00	-1.55	-10.96	0	-7.41	2	2.44	2	2.12	2.35	3.62
126	127	162.13	0.00	-1.55	-9.13	0	-6.18	2	2.03	2	1.76	2.35	3.01
127	127	162.13	0.00	-1.55	-9.13	0	-6.18	2	2.03	2	1.76	2.35	3.01
127	128	163.30	0.00	-1.55	-7.30	0	-4.94	2	1.62	2	1.41	2.35	2.41
128	128	163.30	0.00	-1.55	-7.30	0	-4.94	2	1.62	2	1.41	2.35	2.41
128	129	164.48	0.00	-1.55	-5.48	0	-3.71	2	1.22	2	1.06	2.35	1.81
129	129	164.48	0.00	-1.55	-5.48	0	-3.71	2	1.22	2	1.06	2.35	1.81
129	130	165.65	0.00	-1.55	-3.65	0	-2.47	2	0.81	2	0.71	2.35	1.20
130	130	165.65	0.00	-1.55	-3.65	0	-2.47	2	0.81	2	0.71	2.35	1.20
130	131	166.83	0.00	-1.55	-1.83	0	-1.24	2	0.41	2	0.35	2.35	0.60
131	131	166.83	0.00	-1.55	-1.83	0	-1.24	2	0.41	2	0.35	2.35	0.60
131	132	167.00	0.00	-1.55	-1.55	0	-1.05	2	0.34	2	0.30	2.35	0.51
132	132	167.00	0.00	-1.55	-1.55	0	-1.05	2	0.34	2	0.30	2.35	0.51
132	133	168.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

05/09/01

Programa DINTEL IDEAM S.A.
PASEO.ENV_TREN_GENERICO.MZ-.Tinf



CÁLCULO TENSIONAL

Hipótesis de cálculo:
RCE.Esfuerzos.Tinf
Redistribucioncargasexteriores). Tensiones a tiempo Tinf
1. 1)RCE.Esfuerzos
pef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	15.09	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	15.08	-15.10	0	-10.22	2	3.37	2	2.93	2.35	4.71
2	2	1.00	0.00	15.08	-15.10	0	-10.22	2	3.37	2	2.93	2.35	4.71
2	3	1.18	0.00	15.09	-17.73	0	-12.00	2	3.95	2	3.44	2.35	5.53
3	3	1.18	0.00	15.09	-17.73	0	-12.00	2	3.95	2	3.44	2.35	5.53
3	4	2.35	0.00	15.09	-35.45	0	-24.00	2	7.91	2	6.88	2.35	11.06
4	4	2.35	0.00	15.09	-35.45	0	-24.00	2	7.91	2	6.88	2.35	11.06
4	5	3.53	0.00	15.07	-53.18	0	-36.00	2	11.86	2	10.32	2.35	16.59
5	5	3.53	0.00	15.07	-53.18	0	-36.00	2	11.86	2	10.32	2.35	16.59
5	6	4.70	0.00	15.09	-70.90	0	-48.00	2	15.81	2	13.75	2.35	22.12
6	6	4.70	0.00	15.09	-70.90	0	-48.00	2	15.81	2	13.75	2.35	22.12
6	7	5.88	0.00	15.09	-88.63	0	-60.00	2	19.76	2	17.19	2.35	27.65
7	7	5.88	0.00	15.09	-88.63	0	-60.00	2	19.76	2	17.19	2.35	27.65
7	8	7.05	0.00	15.09	-106.37	0	-72.01	2	23.72	2	20.64	2.35	33.19
8	8	7.05	0.00	15.09	-106.37	0	-72.01	2	23.72	2	20.64	2.35	33.19
8	9	8.23	0.00	15.09	-124.08	0	-84.00	2	27.67	2	24.07	2.35	38.71
9	9	8.23	0.00	15.09	-124.08	0	-84.00	2	27.67	2	24.07	2.35	38.71
9	10	9.40	0.00	15.09	-141.82	0	-96.01	2	31.63	2	27.51	2.35	44.25
10	10	9.40	0.00	15.09	-141.82	0	-96.01	2	31.63	2	27.51	2.35	44.25
10	11	10.58	0.00	15.10	-159.55	0	-108.02	2	35.58	2	30.95	2.35	49.78
11	11	10.58	0.00	15.10	-159.55	0	-108.02	2	35.58	2	30.95	2.35	49.78
11	12	11.75	0.00	15.08	-177.27	0	-120.01	2	39.53	2	34.39	2.35	55.31
12	12	11.75	0.00	15.08	-177.27	0	-120.01	2	39.53	2	34.39	2.35	55.31
12	13	12.93	0.00	15.09	-195.00	0	-132.02	2	43.49	2	37.83	2.35	60.84
13	13	12.93	0.00	15.09	-195.00	0	-132.02	2	43.49	2	37.83	2.35	60.84
13	14	14.10	0.00	15.09	-212.74	0	-144.03	2	47.44	2	41.27	2.35	66.37
14	14	14.10	0.00	15.09	-212.74	0	-144.03	2	47.44	2	41.27	2.35	66.37
14	15	15.28	0.00	15.09	-230.46	0	-156.02	2	51.39	2	44.71	2.35	71.90
15	15	15.28	0.00	15.09	-230.46	0	-156.02	2	51.39	2	44.71	2.35	71.90
15	16	16.45	0.00	15.09	-248.18	0	-168.02	2	55.34	2	48.15	2.35	77.43
16	16	16.45	-1.25	15.09	-248.18	0	-168.43	2	54.93	2	47.79	2.35	77.08
16	17	17.63	-1.50	15.09	-265.91	0	-180.51	2	58.80	2	51.16	2.35	82.54
17	17	17.63	-1.50	15.09	-265.91	0	-176.32	2	84.54	2	73.44	2.35	107.75
17	18	18.80	-1.77	15.08	-283.64	0	-188.14	2	90.11	2	78.29	2.35	114.88
18	18	18.80	0.00	15.08	-283.64	0	-187.49	2	90.76	2	78.85	2.35	115.44
18	19	19.98	0.00	15.07	-301.37	0	-199.21	2	96.44	2	83.78	2.35	122.66
19	19	19.98	0.00	15.07	-301.37	0	-199.21	2	96.44	2	83.78	2.35	122.66
19	20	21.15	0.80	15.08	-319.03	0	-210.58	2	102.38	2	88.95	2.35	130.10
20	20	21.15	0.00	14.98	-319.03	0	-210.88	2	102.09	2	88.69	2.35	129.85
20	21	22.33	0.00	14.98	-336.63	0	-222.51	2	107.72	2	93.58	2.35	137.01
21	21	22.33	0.00	14.98	-336.63	0	-222.51	2	107.72	2	93.58	2.35	137.01
21	22	22.50	0.00	14.97	-339.25	0	-224.24	2	108.56	2	94.31	2.35	138.07
22	22	22.50	0.00	14.97	-339.25	0	-224.24	2	108.56	2	94.31	2.35	138.07
22	23	23.50	0.00	14.98	-354.23	0	-234.15	2	113.35	2	98.48	2.35	144.17
23	1023	23.50	0.00	0.03	-354.23	0	-234.15	2	113.35	2	98.48	2.35	144.17
23	24	24.50	0.00	0.03	-354.25	0	-234.16	2	113.36	2	98.48	2.35	144.18
24	24	24.50	0.00	0.03	-354.25	0	-234.16	2	113.36	2	98.48	2.35	144.18
24	25	24.95	0.00	0.03	-354.26	0	-234.17	2	113.36	2	98.48	2.35	144.18
25	25	24.95	0.00	0.03	-354.26	0	-234.17	2	113.36	2	98.48	2.35	144.18
25	26	26.40	0.00	0.03	-354.31	0	-234.20	2	113.38	2	98.48	2.35	144.18
26	26	26.40	0.77	-0.05	-354.31	0	-233.92	2	113.66	2	98.50	2.35	144.20
26	27	27.85	-0.03	-0.05	-354.28	0	-234.19	2	113.36	2	98.74	2.35	144.45
27	27	27.85	-0.03	-0.05	-354.28	0	-234.19	2	113.36	2	98.48	2.35	144.18
27	28	29.30	-0.03	-0.04	-354.20	0	-234.14	2	113.33	2	98.48	2.35	144.18
28	28	29.30	-1.56	-0.06	-354.20	0	-234.70	2	112.77	2	98.46	2.35	144.15
28	29	30.75	-1.28	-0.07	-354.12	0	-234.54	2	112.85	2	97.97	2.35	143.66
29	29	30.75	-1.28	-0.07	-354.12	0	-240.16	2	78.55	2	98.04	2.35	143.72
29	30	32.20	-1.04	-0.07	-354.03	0	-240.02	2	78.61	2	68.33	2.35	110.12
30	30	32.20	0.00	-0.06	-354.03	0	-239.68	2	78.95	2	68.39	2.35	110.16
30	31	33.65	0.00	-0.06	-353.95	0	-239.62	2	78.93	2	68.68	2.35	110.46
31	31	33.65	0.00	-0.06	-353.95	0	-239.62	2	78.93	2	68.67	2.35	110.43
31	32	35.10	0.00	-0.06	-353.85	0	-239.56	2	78.91	2	68.67	2.35	110.43
32	32	35.10	0.00	-0.06	-353.85	0	-239.56	2	78.91	2	68.65	2.35	110.40
32	33	36.55	0.00	-0.07	-353.76	0	-239.50	2	78.89	2	68.65	2.35	110.40
33	33	36.55	0.00	-0.07	-353.76	0	-239.50	2	78.89	2	68.63	2.35	110.37
33	34	38.00	0.00	-0.06	-353.69	0	-239.45	2	78.87	2	68.63	2.35	110.37
34	34	38.00	0.00	-0.06	-353.69	0	-239.45	2	78.87	2	68.62	2.35	110.35
34	35	39.45	0.00	-0.06	-353.58	0	-239.37	2	78.85	2	68.62	2.35	110.35
35	35	39.45	0.00	-0.07	-353.51	0	-239.37	2	78.85	2	68.59	2.35	110.32
35	36	40.90	0.00	-0.07	-353.51	0	-239.33	2	78.83	2	68.59	2.35	110.32
36	36	40.90	0.00	-0.07	-353.42	0	-239.33	2	78.83	2	68.58	2.35	110.30
36	37	42.35	0.00	-0.07	-353.42	0	-239.27	2	78.81	2	68.58	2.35	110.30
37	37	42.35	0.00	-0.07	-353.34	0	-239.27	2	78.81	2	68.56	2.35	110.27
37	38	43.80	0.00	-0.06	-353.34	0	-239.21	2	78.79	2	68.56	2.35	110.27
38	38	43.80	-1.04	-0.06	-353.24	0	-239.55	2	78.45	2	68.55	2.35	110.24
38	39	45.25	-1.28			0	-239.56	2	78.35	2	68.25	2.35	109.95

CÁLCULO TENSIONAL

Hipótesis de cálculo:
RCE.Esfuerzos.Tinf
...distribucioncargasexteriores). Tensiones a tiempo Tinf
...]RCE.Esfuerzos
...oef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1.28	-0.06	-353.24	0	-233.96	2	112.57	2	97.79	2.35	143.36
39	40	46.70	-1.56	-0.06	-353.15	0	-234.01	2	112.43	2	97.68	2.35	143.23
40	40	46.70	0.03	-0.07	-353.15	0	-233.42	2	113.02	2	98.19	2.35	143.74
40	41	48.15	0.03	-0.06	-353.06	0	-233.36	2	112.99	2	98.16	2.35	143.71
41	41	48.15	0.03	-0.06	-353.06	0	-233.36	2	112.99	2	98.16	2.35	143.71
41	42	49.60	0.82	-0.07	-352.91	0	-232.97	2	113.23	2	98.37	2.35	143.90
42	42	49.60	0.00	-0.15	-352.91	0	-233.27	2	112.93	2	98.11	2.35	143.63
42	43	51.05	0.00	-0.15	-352.71	0	-233.14	2	112.87	2	98.05	2.35	143.55
43	43	51.05	0.00	-0.15	-352.71	0	-233.14	2	112.87	2	98.05	2.35	143.55
43	44	51.50	0.00	-0.15	-352.63	0	-233.09	2	112.84	2	98.03	2.35	143.52
44	44	51.50	0.00	-0.15	-352.63	0	-233.09	2	112.84	2	98.03	2.35	143.52
44	45	52.50	0.00	-0.14	-352.48	0	-232.99	2	112.79	2	97.99	2.35	143.46
45	1045	52.50	0.00	1.05	-352.48	0	-232.99	2	112.79	2	97.99	2.35	143.46
45	46	53.50	0.00	1.05	-353.53	0	-233.68	2	113.13	2	98.28	2.35	143.89
46	46	53.50	0.00	1.05	-353.53	0	-233.68	2	113.13	2	98.28	2.35	143.89
46	47	53.95	0.00	1.05	-354.01	0	-234.00	2	113.28	2	98.41	2.35	144.08
47	47	53.95	0.00	1.05	-354.01	0	-234.00	2	113.28	2	98.41	2.35	144.08
47	48	55.40	0.00	1.06	-355.53	0	-235.01	2	113.77	2	98.84	2.35	144.70
48	48	55.40	0.78	0.98	-355.53	0	-234.72	2	114.06	2	99.09	2.35	144.95
48	49	56.85	-0.01	0.96	-356.98	0	-235.97	2	114.23	2	99.24	2.35	145.29
)	49	56.85	-0.01	0.96	-356.98	0	-235.97	2	114.23	2	99.24	2.35	145.29
49	50	58.30	-0.01	0.96	-358.39	0	-236.90	2	114.68	2	99.63	2.35	145.86
50	50	58.30	-1.55	0.97	-358.39	0	-237.47	2	114.11	2	99.14	2.35	145.37
50	51	59.75	-1.28	0.96	-359.79	0	-238.29	2	114.66	2	99.61	2.35	146.03
51	51	59.75	-1.28	0.96	-359.79	0	-244.00	2	79.81	2	69.43	2.35	111.89
51	52	61.20	-1.03	0.96	-361.20	0	-244.87	2	80.21	2	69.78	2.35	112.40
52	52	61.20	0.00	0.97	-361.20	0	-244.53	2	80.55	2	70.07	2.35	112.69
52	53	62.65	0.00	0.96	-362.60	0	-245.48	2	80.86	2	70.34	2.35	113.13
53	53	62.65	0.00	0.96	-362.60	0	-245.48	2	80.86	2	70.34	2.35	113.13
53	54	64.10	0.00	0.97	-363.99	0	-246.42	2	81.17	2	70.61	2.35	113.56
54	54	64.10	0.00	0.97	-363.99	0	-246.42	2	81.17	2	70.61	2.35	113.56
54	55	65.55	0.00	0.95	-365.39	0	-247.37	2	81.48	2	70.89	2.35	114.00
55	55	65.55	0.00	0.95	-365.39	0	-247.37	2	81.48	2	70.89	2.35	114.00
55	56	67.00	0.00	0.96	-366.79	0	-248.32	2	81.79	2	71.16	2.35	114.44
56	56	67.00	0.00	0.96	-366.79	0	-248.32	2	81.79	2	71.16	2.35	114.44
56	57	68.45	0.00	0.97	-368.19	0	-249.26	2	82.11	2	71.43	2.35	114.88
57	57	68.45	0.00	0.97	-368.19	0	-249.26	2	82.11	2	71.43	2.35	114.88
57	58	69.90	0.00	0.96	-369.58	0	-250.21	2	82.42	2	71.70	2.35	115.31
58	58	69.90	0.00	0.96	-369.58	0	-250.21	2	82.42	2	71.70	2.35	115.31
58	59	71.35	0.00	0.96	-370.98	0	-251.15	2	82.73	2	71.97	2.35	115.75
59	59	71.35	0.00	0.96	-370.98	0	-251.15	2	82.73	2	71.97	2.35	115.75
59	60	72.80	0.00	0.96	-372.38	0	-252.10	2	83.04	2	72.24	2.35	116.18
60	60	72.80	-1.05	0.96	-372.38	0	-252.45	2	82.70	2	71.94	2.35	115.88
60	61	74.25	-1.30	0.96	-373.77	0	-253.47	2	82.92	2	72.14	2.35	116.25
61	61	74.25	-1.30	0.96	-373.77	0	-247.54	2	119.13	2	103.49	2.35	151.71
61	62	75.70	-1.57	0.96	-375.16	0	-248.56	2	119.47	2	103.79	2.35	152.19
)	62	75.70	0.01	0.95	-375.16	0	-247.98	2	120.05	2	104.30	2.35	152.69
62	63	77.15	0.01	0.96	-376.55	0	-248.90	2	120.50	2	104.68	2.35	153.26
63	63	77.15	0.01	0.96	-376.55	0	-248.90	2	120.50	2	104.68	2.35	153.26
63	64	78.60	0 81	0.96	-377.89	0	-249.49	2	121.22	2	105.31	2.35	154.06
64	64	78.60	0.00	0.88	-377.89	0	-249.79	2	120.92	2	105.05	2.35	153.80
64	65	80.05	0.00	0.87	-379.17	0	-250.63	2	121.33	2	105.41	2.35	154.32
65	65	80.05	0.00	0.87	-379.17	0	-250.63	2	121.33	2	105.41	2.35	154.32
65	66	80.50	0.00	0.88	-379.56	0	-250.89	2	121.46	2	105.52	2.35	154.48
66	66	80.50	0.00	0.88	-379.56	0	-250.89	2	121.46	2	105.52	2.35	154.48
66	67	81.50	0.00	0.88	-380.43	0	-251.46	2	121.74	2	105.76	2.35	154.84
67	1067	81.50	0.00	1.25	-380.43	0	-251.46	2	121.74	2	105.76	2.35	154.84
67	68	82.50	0.00	1.26	-381.68	0	-252.29	2	122.14	2	106.11	2.35	155.34
68	68	82.50	0.00	1.26	-381.68	0	-252.29	2	122.14	2	106.11	2.35	155.34
68	69	83.08	0.00	1.26	-382.42	0	-252.78	2	122.37	2	106.31	2.35	155.65
69	69	83.08	0.00	1.26	-382.42	0	-252.78	2	122.37	2	106.31	2.35	155.65
69	70	84.65	0.00	1.26	-384.38	0	-254.08	2	123.00	2	106.86	2.35	156.44
70	70	84.65	0.77	1.18	-384.38	0	-253.79	2	123.29	2	107.10	2.35	156.69
70	71	86.23	-0.02	1.17	-386.30	0	-255.35	2	123.61	2	107.39	2.35	157.22
71	71	86.23	-0.02	1.17	-386.30	0	-255.35	2	123.61	2	107.39	2.35	157.22
71	72	87.80	-0.02	1.17	-388.15	0	-256.57	2	124.20	2	107.90	2.35	157.97
72	72	87.80	-1.55	1.17	-388.15	0	-257.14	2	123.64	2	107.41	2.35	157.48
72	73	89.38	-1.28	1.16	-389.99	0	-258.25	2	124.33	2	108.01	2.35	158.32
73	73	89.38	-1.28	1.16	-389.99	0	-264.44	2	86.55	2	75.29	2.35	121.31
73	74	90.95	-1.03	1.16	-391.83	0	-265.61	2	87.04	2	75.72	2.35	121.96
74	74	90.95	0.00	1.17	-391.83	0	-265.27	2	87.38	2	76.02	2.35	122.25
74	75	92.53	0.00	1.16	-393.69	0	-266.53	2	87.79	2	76.38	2.35	122.83
75	75	92.53	0.00	1.16	-393.69	0	-266.53	2	87.79	2	76.38	2.35	122.83
75	76	94.10	0.00	1.16	-395.54	0	-267.78	2	88.21	2	76.73	2.35	123.41
76	76	94.10	0.00	1.16	-395.54	0	-267.78	2	88.21	2	76.73	2.35	123.41
77	77	95.68	0.00	1.17	-397.37	0	-269.02	2	88.61	2	77.09	2.35	123.98

CÁLCULO TENSIONAL

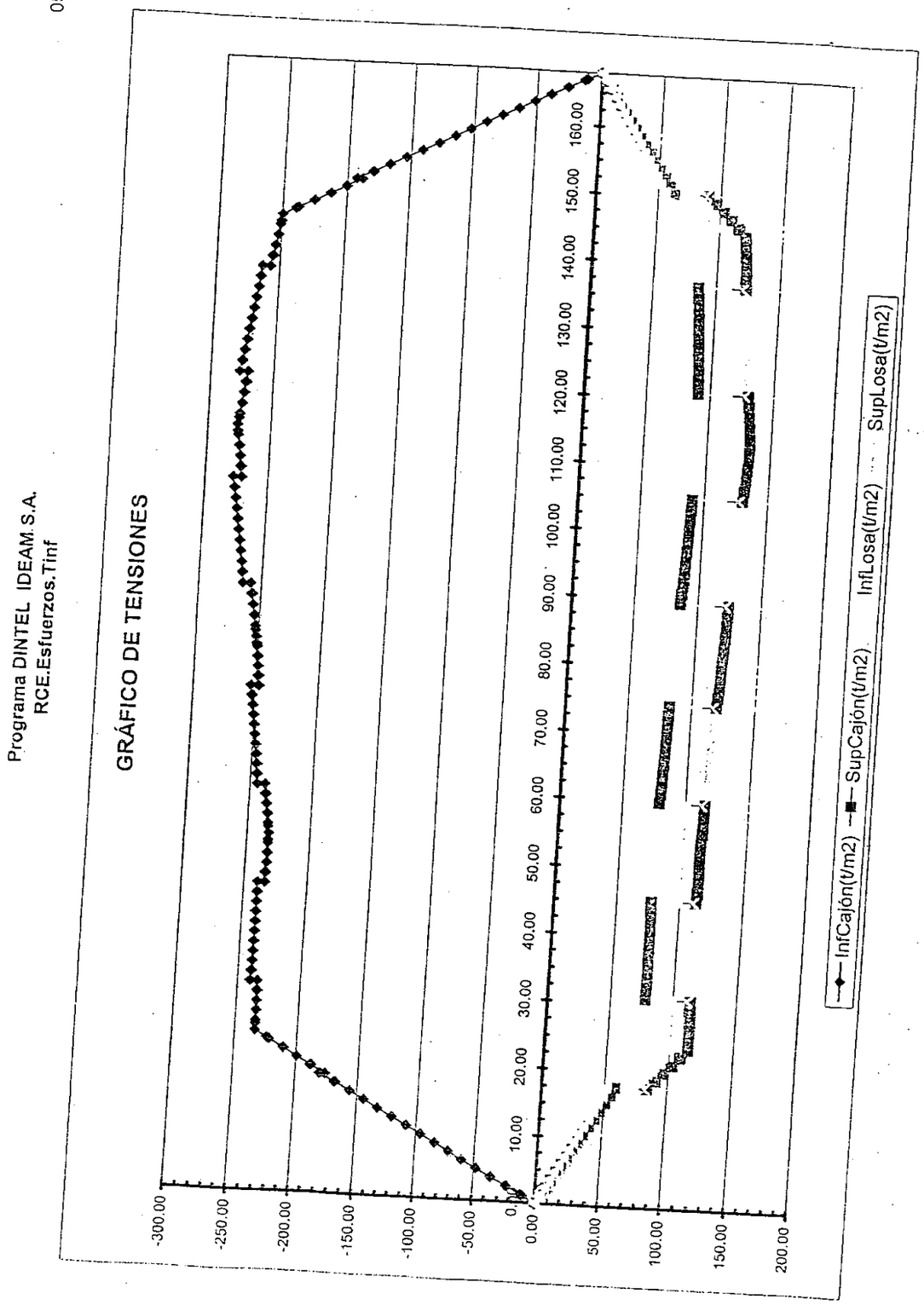
...lipótesis de cálculo:
...CE.Esfuerzos.Tinf
...Redistribucioncargasexteriores). Tensiones a tiempo Tinf
...]RCE.Esfuerzos
...oef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	1.17	-397.37	0	-269.02	2	88.61	2	77.09	2.35	123.98
77	78	97.25	0.00	1.17	-399.21	0	-270.27	2	89.02	2	77.45	2.35	124.55
78	78	97.25	0.00	1.17	-399.21	0	-270.27	2	89.02	2	77.45	2.35	124.55
78	79	98.83	0.00	1.17	-401.06	0	-271.52	2	89.44	2	77.81	2.35	125.13
79	79	98.83	0.00	1.17	-401.06	0	-271.52	2	89.44	2	77.81	2.35	125.13
79	80	100.40	0.00	1.18	-402.92	0	-272.78	2	89.85	2	78.17	2.35	125.71
80	80	100.40	0.00	1.18	-402.92	0	-272.78	2	89.85	2	78.17	2.35	125.71
80	81	101.98	0.00	1.18	-404.75	0	-274.02	2	90.26	2	78.52	2.35	126.28
81	81	101.98	0.00	1.18	-404.75	0	-274.02	2	90.26	2	78.52	2.35	126.28
81	82	103.55	0.00	1.16	-406.61	0	-275.27	2	90.67	2	78.88	2.35	126.86
82	82	103.55	-1.05	1.18	-406.61	0	-275.62	2	90.33	2	78.58	2.35	126.56
82	83	105.13	-1.30	1.18	-408.45	0	-276.95	2	90.66	2	78.87	2.35	127.07
83	83	105.13	-1.30	1.18	-408.45	0	-270.46	2	130.23	2	113.13	2.35	165.82
83	84	106.70	-1.57	1.17	-410.30	0	-271.79	2	130.72	2	113.56	2.35	166.49
84	84	106.70	0.02	1.16	-410.30	0	-271.20	2	131.30	2	114.07	2.35	167.00
84	85	108.28	0.02	1.16	-412.15	0	-272.42	2	131.90	2	114.58	2.35	167.75
85	85	108.28	0.02	1.16	-412.15	0	-272.42	2	131.90	2	114.58	2.35	167.75
85	86	109.85	0.82	1.16	-413.92	0	-273.30	2	132.76	2	115.33	2.35	168.73
86	86	109.85	0.00	1.09	-413.92	0	-273.60	2	132.45	2	115.07	2.35	168.47
86	87	111.43	0.00	1.08	-415.64	0	-274.74	2	133.00	2	115.55	2.35	169.17
87	87	111.43	0.00	1.08	-415.64	0	-274.74	2	133.00	2	115.55	2.35	169.17
87	88	112.00	0.00	1.09	-416.26	0	-275.15	2	133.20	2	115.72	2.35	169.42
88	88	112.00	0.00	1.09	-416.26	0	-275.15	2	133.20	2	115.72	2.35	169.42
88	89	113.00	0.00	1.09	-417.36	0	-275.87	2	133.56	2	116.03	2.35	169.87
89	1089	113.00	0.00	-1.18	-417.36	0	-275.87	2	133.56	2	116.03	2.35	169.87
89	90	114.00	0.00	-1.18	-416.16	0	-275.08	2	133.17	2	115.69	2.35	169.38
90	90	114.00	0.00	-1.18	-416.16	0	-275.08	2	133.17	2	115.69	2.35	169.38
90	91	114.58	0.00	-1.18	-415.50	0	-274.65	2	132.96	2	115.51	2.35	169.11
91	91	114.58	0.00	-1.18	-415.50	0	-274.65	2	132.96	2	115.51	2.35	169.11
91	92	116.15	0.00	-1.19	-413.63	0	-273.41	2	132.36	2	114.99	2.35	168.35
92	92	116.15	0.83	-1.27	-413.63	0	-273.10	2	132.67	2	115.25	2.35	168.61
92	93	117.73	0.04	-1.27	-411.71	0	-272.13	2	131.76	2	114.47	2.35	167.58
93	93	117.73	0.04	-1.27	-411.71	0	-272.13	2	131.76	2	114.47	2.35	167.58
93	94	119.30	0.04	-1.27	-409.71	0	-270.80	2	131.12	2	113.91	2.35	166.76
94	94	119.30	-1.58	-1.28	-409.71	0	-271.40	2	130.53	2	113.40	2.35	166.25
94	95	120.88	-1.30	-1.28	-407.71	0	-269.97	2	129.99	2	112.93	2.35	165.52
95	95	120.88	-1.30	-1.28	-407.71	0	-276.45	2	90.49	2	78.73	2.35	126.84
95	96	122.45	-1.05	-1.28	-405.73	0	-275.02	2	90.13	2	78.41	2.35	126.29
96	96	122.45	0.00	-1.27	-405.73	0	-274.68	2	90.48	2	78.71	2.35	126.59
96	97	124.03	0.00	-1.28	-403.74	0	-273.33	2	90.03	2	78.33	2.35	125.97
97	97	124.03	0.00	-1.28	-403.74	0	-273.33	2	90.03	2	78.33	2.35	125.97
97	98	125.60	0.00	-1.28	-401.74	0	-271.98	2	89.59	2	77.94	2.35	125.34
98	98	125.60	0.00	-1.28	-401.74	0	-271.98	2	89.59	2	77.94	2.35	125.34
98	99	127.18	0.00	-1.27	-399.76	0	-270.64	2	89.15	2	77.55	2.35	124.73
99	99	127.18	0.00	-1.27	-399.76	0	-270.64	2	89.15	2	77.55	2.35	124.73
99	100	128.75	0.00	-1.28	-397.77	0	-269.29	2	88.70	2	77.17	2.35	124.10
100	100	128.75	0.00	-1.28	-397.77	0	-269.29	2	88.70	2	77.17	2.35	124.10
100	101	130.33	0.00	-1.28	-395.78	0	-267.94	2	88.26	2	76.78	2.35	123.48
101	101	130.33	0.00	-1.28	-395.78	0	-267.94	2	88.26	2	76.78	2.35	123.48
101	102	131.90	0.00	-1.27	-393.78	0	-266.59	2	87.81	2	76.39	2.35	122.86
102	102	131.90	0.00	-1.27	-393.78	0	-266.59	2	87.81	2	76.39	2.35	122.86
102	103	133.48	0.00	-1.27	-391.78	0	-265.24	2	87.37	2	76.01	2.35	122.24
103	103	133.48	0.00	-1.27	-391.78	0	-265.24	2	87.37	2	76.01	2.35	122.24
103	104	135.05	0.00	-1.28	-389.79	0	-263.89	2	86.92	2	75.62	2.35	121.61
104	104	135.05	-1.03	-1.26	-389.79	0	-264.23	2	86.58	2	75.33	2.35	121.32
104	105	136.63	-1.28	-1.26	-387.79	0	-262.95	2	86.06	2	74.87	2.35	120.63
105	105	136.63	-1.28	-1.26	-387.79	0	-256.80	2	123.62	2	107.40	2.35	157.42
105	106	138.20	-1.55	-1.27	-385.80	0	-255.58	2	122.89	2	106.76	2.35	156.53
106	106	138.20	-0.04	-1.27	-385.80	0	-255.03	2	123.44	2	107.24	2.35	157.01
106	107	139.78	-0.04	-1.27	-383.82	0	-253.72	2	122.81	2	106.69	2.35	156.20
107	107	139.78	-0.04	-1.27	-383.82	0	-253.72	2	122.81	2	106.69	2.35	156.20
107	108	141.35	0.76	-1.28	-381.74	0	-252.05	2	122.44	2	106.37	2.35	155.61
108	108	141.35	0.00	-1.34	-381.74	0	-252.33	2	122.16	2	106.12	2.35	155.37
108	109	142.93	0.00	-1.35	-379.62	0	-250.93	2	121.48	2	105.53	2.35	154.51
109	109	142.93	0.00	-1.35	-379.62	0	-250.93	2	121.48	2	105.53	2.35	154.51
109	110	143.50	0.00	-1.35	-378.85	0	-250.42	2	121.23	2	105.32	2.35	154.19
110	110	143.50	0.00	-1.35	-378.85	0	-250.42	2	121.23	2	105.32	2.35	154.19
110	111	144.50	0.00	-1.35	-377.50	0	-249.53	2	120.80	2	104.95	2.35	153.64
111	1111	144.50	0.00	-15.96	-377.50	0	-249.53	2	120.80	2	104.95	2.35	153.64
111	112	145.50	0.00	-15.96	-361.54	0	-238.98	2	115.69	2	100.51	2.35	147.15
112	112	145.50	0.00	-15.96	-361.54	0	-238.98	2	115.69	2	100.51	2.35	147.15
112	113	145.68	0.00	-15.96	-358.73	0	-237.12	2	114.79	2	99.73	2.35	146.00
113	113	145.68	0.00	-15.96	-358.73	0	-237.12	2	114.79	2	99.73	2.35	146.00
113	114	146.85	0.00	-15.96	-339.97	0	-224.72	2	108.79	2	94.51	2.35	138.37
114	114	146.85	0.82	-16.06	-339.97	0	-224.42	2	109.09	2	94.77	2.35	138.63
114	115	148.03	0.63	-16.07	-321.15	0	-212.27	2	102.78	2	88.39	2.35	129.31

CÁLCULO TENSIONAL

Hipótesis de cálculo:
RCE.Esfuerzos.Tinf
Redistribucioncargasexteriores). Tensiones a tiempo Tinf
RCE Esfuerzos
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.03	-16.07	-321.15	0	-212.27	2	102.78	2	89.29	2.35	130.72
115	116	149.20	0.03	-16.08	-302.27	0	-199.79	2	96.74	2	84.04	2.35	123.03
116	116	149.20	-1.79	-16.07	-302.27	0	-200.46	2	96.07	2	83.46	2.35	122.45
117	117	150.38	-1.51	-16.07	-283.37	0	-187.86	2	90.12	2	78.30	2.35	114.85
117	118	151.55	-1.51	-16.07	-283.37	0	-192.34	2	62.69	2	54.54	2.35	87.98
118	118	151.55	-1.26	-16.07	-264.48	0	-179.47	2	58.56	2	50.95	2.35	82.16
118	119	152.73	0.00	-16.07	-264.48	0	-179.05	2	58.98	2	51.31	2.35	82.52
119	119	152.73	0.00	-16.07	-245.59	0	-166.26	2	54.77	2	47.64	2.35	76.62
119	120	153.90	0.00	-16.07	-245.59	0	-166.26	2	54.77	2	47.64	2.35	76.62
120	120	153.90	0.00	-16.07	-226.70	0	-153.48	2	50.55	2	43.98	2.35	70.73
120	121	155.08	0.00	-16.08	-226.70	0	-153.48	2	50.55	2	43.98	2.35	70.73
121	121	155.08	0.00	-16.08	-207.82	0	-140.69	2	46.34	2	40.32	2.35	64.84
121	122	156.25	0.00	-16.07	-207.82	0	-140.69	2	46.34	2	40.32	2.35	64.84
122	122	156.25	0.00	-16.07	-188.90	0	-127.89	2	42.12	2	36.65	2.35	58.94
122	123	157.43	0.00	-16.08	-188.90	0	-127.89	2	42.12	2	36.65	2.35	58.94
123	123	157.43	0.00	-16.08	-170.03	0	-115.11	2	37.92	2	32.99	2.35	53.05
123	124	158.60	0.00	-16.07	-170.03	0	-115.11	2	37.92	2	32.99	2.35	53.05
124	124	158.60	0.00	-16.07	-151.12	0	-102.31	2	33.70	2	29.32	2.35	47.15
124	125	159.78	0.00	-16.07	-151.12	0	-102.31	2	33.70	2	29.32	2.35	47.15
25	125	159.78	0.00	-16.07	-132.23	0	-89.52	2	29.49	2	25.65	2.35	41.26
125	126	160.95	0.00	-16.07	-132.23	0	-89.52	2	29.49	2	25.65	2.35	41.26
126	126	160.95	0.00	-16.07	-113.34	0	-76.73	2	25.27	2	21.99	2.35	35.36
126	127	162.13	0.00	-16.07	-113.34	0	-76.73	2	25.27	2	21.99	2.35	35.36
127	127	162.13	0.00	-16.07	-94.46	0	-63.95	2	21.06	2	18.33	2.35	29.47
127	128	163.30	0.00	-16.08	-94.46	0	-63.95	2	21.06	2	18.33	2.35	29.47
128	128	163.30	0.00	-16.08	-75.56	0	-51.15	2	16.85	2	14.66	2.35	23.57
128	129	164.48	0.00	-16.07	-75.56	0	-51.15	2	16.85	2	14.66	2.35	23.57
129	129	164.48	0.00	-16.07	-56.68	0	-38.37	2	12.64	2	11.00	2.35	17.68
129	130	165.65	0.00	-16.08	-56.68	0	-38.37	2	12.64	2	11.00	2.35	17.68
130	130	165.65	0.00	-16.08	-37.77	0	-25.57	2	8.42	2	7.33	2.35	11.78
130	131	166.83	0.00	-16.08	-37.77	0	-25.57	2	8.42	2	7.33	2.35	11.78
131	131	166.83	0.00	-16.08	-18.90	0	-12.80	2	4.21	2	3.67	2.35	5.90
131	132	167.00	0.00	-16.07	-18.90	0	-12.80	2	4.21	2	3.67	2.35	5.90
132	132	167.00	0.00	-16.07	-16.07	0	-10.88	2	3.58	2	3.12	2.35	5.01
132	133	168.00	0.00	-16.07	0.00	0	-10.88	2	3.58	2	3.12	2.35	5.01
						0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
RPT.Esfuerzos.Tinf
Redistribucionpretensadotailer). Tensiones a tiempo Tinf
1, 1)RPT Esfuerzos
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-46.25	0.00	0	0.00	2	0.00	2	0.00	2.35	0.0
1	2	1.00	0.00	-46.25	46.25	0	31.31	2	-10.31	2	-8.97	2.35	-14.4
2	2	1.00	0.00	-46.25	46.25	0	31.31	2	-10.31	2	-8.97	2.35	-14.4
2	3	1.18	0.00	-46.25	54.34	0	36.79	2	-12.12	2	-10.54	2.35	-16.9
3	3	1.18	0.00	-46.25	54.34	0	36.79	2	-12.12	2	-10.54	2.35	-16.9
3	4	2.35	0.00	-46.25	108.68	0	73.58	2	-24.24	2	-21.08	2.35	-33.9
4	4	2.35	0.00	-46.25	108.68	0	73.58	2	-24.24	2	-21.08	2.35	-33.9
4	5	3.53	0.00	-46.25	163.02	0	110.36	2	-36.35	2	-31.63	2.35	-50.8
5	5	3.53	0.00	-46.25	163.02	0	110.36	2	-36.35	2	-31.63	2.35	-50.8
5	6	4.70	0.00	-46.25	217.36	0	147.15	2	-48.47	2	-42.17	2.35	-67.8
6	6	4.70	0.00	-46.25	217.36	0	147.15	2	-48.47	2	-42.17	2.35	-67.8
6	7	5.88	0.00	-46.25	271.70	0	183.94	2	-60.59	2	-52.71	2.35	-84.7
7	7	5.88	0.00	-46.25	271.70	0	183.94	2	-60.59	2	-52.71	2.35	-84.7
7	8	7.05	0.00	-46.25	326.04	0	220.73	2	-72.71	2	-63.25	2.35	-101.7
8	8	7.05	0.00	-46.25	326.04	0	220.73	2	-72.71	2	-63.25	2.35	-101.7
8	9	8.23	0.00	-46.25	380.38	0	257.52	2	-84.82	2	-73.79	2.35	-118.6
9	9	8.23	0.00	-46.25	380.38	0	257.52	2	-84.82	2	-73.79	2.35	-118.6
9	10	9.40	0.00	-46.25	434.73	0	294.31	2	-96.94	2	-84.34	2.35	-135.6
10	10	9.40	0.00	-46.25	434.73	0	294.31	2	-96.94	2	-84.34	2.35	-135.6
10	11	10.58	0.00	-46.25	489.07	0	331.10	2	-109.06	2	-94.88	2.35	-152.5
11	11	10.58	0.00	-46.25	489.07	0	331.10	2	-109.06	2	-94.88	2.35	-152.5
11	12	11.75	0.00	-46.25	543.41	0	367.89	2	-121.18	2	-105.42	2.35	-169.5
12	12	11.75	0.00	-46.25	543.41	0	367.89	2	-121.18	2	-105.42	2.35	-169.5
12	13	12.93	0.00	-46.25	597.75	0	404.68	2	-133.30	2	-115.96	2.35	-186.5
13	13	12.93	0.00	-46.25	597.75	0	404.68	2	-133.30	2	-115.96	2.35	-186.5
13	14	14.10	0.00	-46.25	652.09	0	441.46	2	-145.42	2	-126.51	2.35	-203.4
14	14	14.10	0.00	-46.25	652.09	0	441.46	2	-145.42	2	-126.51	2.35	-203.4
14	15	15.28	0.00	-46.25	706.43	0	478.25	2	-157.53	2	-137.05	2.35	-220.4
15	15	15.28	0.00	-46.25	706.43	0	478.25	2	-157.53	2	-137.05	2.35	-220.4
15	16	16.45	0.00	-46.25	760.77	0	515.04	2	-169.65	2	-147.59	2.35	-237.3
16	16	16.45	0.54	-46.24	760.80	0	515.24	2	-169.48	2	-147.44	2.35	-237.2
16	17	17.63	0.54	-46.24	815.14	0	552.03	2	-181.60	2	-157.98	2.35	-254.1
17	17	17.63	0.54	-46.24	815.14	0	539.01	2	-260.65	2	-226.44	2.35	-331.5
17	18	18.80	0.54	-46.24	869.48	0	574.92	2	-278.03	2	-241.54	2.35	-353.7
18	18	18.80	0.00	-46.25	869.44	0	574.70	2	-278.22	2	-241.70	2.35	-353.8
18	19	19.98	0.00	-46.25	923.78	0	610.62	2	-295.61	2	-256.81	2.35	-375.9
19	19	19.98	0.00	-46.25	923.78	0	610.62	2	-295.61	2	-256.81	2.35	-375.9
19	20	21.15	0.00	-46.25	978.12	0	646.54	2	-313.00	2	-271.92	2.35	-398.0
20	20	21.15	0.00	-46.25	978.12	0	646.54	2	-313.00	2	-271.92	2.35	-398.0
20	21	22.33	0.00	-46.25	1032.46	0	682.46	2	-330.39	2	-287.02	2.35	-420.2
21	21	22.33	0.00	-46.25	1032.46	0	682.46	2	-330.39	2	-287.02	2.35	-420.2
21	22	22.50	0.00	-46.25	1040.55	0	687.80	2	-332.98	2	-289.27	2.35	-423.5
22	22	22.50	0.00	-46.25	1040.55	0	687.80	2	-332.98	2	-289.27	2.35	-423.5
22	23	23.50	0.00	-46.25	1086.80	0	718.37	2	-347.78	2	-302.13	2.35	-442.3
23	1023	23.50	0.00	1.64	1086.80	0	718.37	2	-347.78	2	-302.13	2.35	-442.3
)	24	24.50	0.00	1.64	1085.16	0	717.29	2	-347.25	2	-301.67	2.35	-441.6
24	24	24.50	0.00	1.64	1085.16	0	717.29	2	-347.25	2	-301.67	2.35	-441.6
24	25	24.95	0.00	1.64	1084.41	0	716.80	2	-347.01	2	-301.47	2.35	-441.3
25	25	24.95	0.00	1.64	1084.41	0	716.80	2	-347.01	2	-301.47	2.35	-441.3
25	26	26.40	0.00	1.64	1082.03	0	715.22	2	-346.25	2	-300.80	2.35	-440.3
26	26	26.40	0.00	1.64	1082.03	0	715.22	2	-346.25	2	-300.80	2.35	-440.3
26	27	27.85	0.00	1.64	1079.65	0	713.65	2	-345.49	2	-300.14	2.35	-439.4
27	27	27.85	0.00	1.64	1079.65	0	713.65	2	-345.49	2	-300.14	2.35	-439.4
27	28	29.30	0.00	1.64	1077.27	0	712.08	2	-344.73	2	-299.48	2.35	-438.4
28	28	29.30	0.02	1.64	1077.30	0	712.10	2	-344.73	2	-299.48	2.35	-438.4
28	29	30.75	0.02	1.64	1074.92	0	710.53	2	-343.97	2	-298.82	2.35	-437.4
29	29	30.75	0.02	1.64	1074.92	0	727.73	2	-239.70	2	-208.53	2.35	-335.3
29	30	32.20	0.02	1.64	1072.53	0	726.11	2	-239.17	2	-208.07	2.35	-334.6
30	30	32.20	0.00	1.64	1072.49	0	726.08	2	-239.17	2	-208.06	2.35	-334.6
30	31	33.65	0.00	1.64	1070.11	0	724.46	2	-238.63	2	-207.60	2.35	-333.8
31	31	33.65	0.00	1.64	1070.11	0	724.46	2	-238.63	2	-207.60	2.35	-333.8
31	32	35.10	0.00	1.64	1067.72	0	722.85	2	-238.10	2	-207.14	2.35	-333.1
32	32	35.10	0.00	1.64	1067.72	0	722.85	2	-238.10	2	-207.14	2.35	-333.1
32	33	36.55	0.00	1.64	1065.34	0	721.24	2	-237.57	2	-206.68	2.35	-332.3
33	33	36.55	0.00	1.64	1065.34	0	721.24	2	-237.57	2	-206.68	2.35	-332.3
33	34	38.00	0.00	1.64	1062.95	0	719.62	2	-237.04	2	-206.21	2.35	-331.6
34	34	38.00	0.00	1.64	1062.95	0	719.62	2	-237.04	2	-206.21	2.35	-331.6
34	35	39.45	0.00	1.64	1060.57	0	718.01	2	-236.51	2	-205.75	2.35	-330.9
35	35	39.45	0.00	1.64	1060.57	0	718.01	2	-236.51	2	-205.75	2.35	-330.9
35	36	40.90	0.00	1.64	1058.18	0	716.39	2	-235.97	2	-205.29	2.35	-330.1
36	36	40.90	0.00	1.64	1058.18	0	716.39	2	-235.97	2	-205.29	2.35	-330.1
36	37	42.35	0.00	1.64	1055.80	0	714.78	2	-235.44	2	-204.83	2.35	-329.4
37	37	42.35	0.00	1.64	1055.80	0	714.78	2	-235.44	2	-204.83	2.35	-329.4
37	38	43.80	0.00	1.64	1053.41	0	713.16	2	-234.91	2	-204.36	2.35	-328.6
38	38	43.80	-0.02	1.64	1053.46	0	713.19	2	-234.93	2	-204.38	2.35	-328.6
38	39	45.25	-0.02	1.64	1051.07	0	711.57	2	-234.40	2	-203.91	2.35	-327.9

CÁLCULO TENSIONAL

Hipótesis de cálculo:
RPT.Esfuerzos.Tinf
Redistribucionpretensadotailer). Tensiones a tiempo Tinf
1)RPT Esfuerzos
of exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-0.02	1.64	1051.07	0	694.75	2	-336.35	2	-292.20	2.35	-427.79
39	40	46.70	-0.02	1.64	1048.69	0	693.18	2	-335.59	2	-291.54	2.35	-426.82
40	40	46.70	0.00	1.64	1048.65	0	693.16	2	-335.57	2	-291.52	2.35	-426.80
40	41	48.15	0.00	1.64	1046.27	0	691.58	2	-334.81	2	-290.86	2.35	-425.83
41	41	48.15	0.00	1.64	1046.27	0	691.58	2	-334.81	2	-290.86	2.35	-425.83
41	42	49.60	0.00	1.64	1043.88	0	690.00	2	-334.04	2	-290.20	2.35	-424.86
42	42	49.60	0.00	1.64	1043.88	0	690.00	2	-334.04	2	-290.20	2.35	-424.86
42	43	51.05	0.00	1.64	1041.50	0	688.43	2	-333.28	2	-289.54	2.35	-423.89
43	43	51.05	0.00	1.64	1041.50	0	688.43	2	-333.28	2	-289.54	2.35	-423.89
43	44	51.50	0.00	1.64	1040.76	0	687.94	2	-333.04	2	-289.33	2.35	-423.59
44	44	51.50	0.00	1.64	1040.76	0	687.94	2	-333.04	2	-289.33	2.35	-423.59
44	45	52.50	0.00	1.64	1039.11	0	686.85	2	-332.52	2	-288.87	2.35	-422.92
45	1045	52.50	0.00	-4.51	1039.11	0	686.85	2	-332.52	2	-288.87	2.35	-422.92
45	46	53.50	0.00	-4.51	1043.62	0	689.83	2	-333.96	2	-290.13	2.35	-424.75
46	46	53.50	0.00	-4.51	1043.62	0	689.83	2	-333.96	2	-290.13	2.35	-424.75
46	47	53.95	0.00	-4.51	1045.65	0	691.17	2	-334.61	2	-290.69	2.35	-425.58
47	47	53.95	0.00	-4.51	1045.65	0	691.17	2	-334.61	2	-290.69	2.35	-425.58
47	48	55.40	0.00	-4.51	1052.19	0	695.50	2	-336.70	2	-292.51	2.35	-428.24
48	48	55.40	0.00	-4.51	1052.19	0	695.50	2	-336.70	2	-292.51	2.35	-428.24
48	49	56.85	0.00	-4.51	1058.73	0	699.82	2	-338.79	2	-294.33	2.35	-430.90
49	49	56.85	0.00	-4.51	1058.73	0	699.82	2	-338.79	2	-294.33	2.35	-430.90
49	50	58.30	0.00	-4.51	1065.26	0	704.14	2	-340.88	2	-296.14	2.35	-433.56
50	50	58.30	-0.04	-4.51	1065.30	0	704.15	2	-340.91	2	-296.17	2.35	-433.59
50	51	59.75	-0.04	-4.51	1071.83	0	708.46	2	-343.00	2	-297.98	2.35	-436.25
51	51	59.75	-0.04	-4.51	1071.83	0	725.62	2	-239.03	2	-207.95	2.35	-334.42
51	52	61.20	-0.04	-4.51	1078.37	0	730.04	2	-240.49	2	-209.22	2.35	-336.46
52	52	61.20	0.00	-4.51	1078.33	0	730.03	2	-240.47	2	-209.20	2.35	-336.44
52	53	62.65	0.00	-4.51	1084.86	0	734.45	2	-241.92	2	-210.46	2.35	-338.48
53	53	62.65	0.00	-4.51	1084.86	0	734.45	2	-241.92	2	-210.46	2.35	-338.48
53	54	64.10	0.00	-4.51	1091.40	0	738.88	2	-243.38	2	-211.73	2.35	-340.52
54	54	64.10	0.00	-4.51	1091.40	0	738.88	2	-243.38	2	-211.73	2.35	-340.52
54	55	65.55	0.00	-4.51	1097.94	0	743.31	2	-244.84	2	-213.00	2.35	-342.56
55	55	65.55	0.00	-4.51	1097.94	0	743.31	2	-244.84	2	-213.00	2.35	-342.56
55	56	67.00	0.00	-4.51	1104.47	0	747.73	2	-246.30	2	-214.27	2.35	-344.59
56	56	67.00	0.00	-4.51	1104.47	0	747.73	2	-246.30	2	-214.27	2.35	-344.59
56	57	68.45	0.00	-4.51	1111.02	0	752.16	2	-247.76	2	-215.54	2.35	-346.64
57	57	68.45	0.00	-4.51	1111.02	0	752.16	2	-247.76	2	-215.54	2.35	-346.64
57	58	69.90	0.00	-4.51	1117.56	0	756.59	2	-249.22	2	-216.81	2.35	-348.68
58	58	69.90	0.00	-4.51	1117.56	0	756.59	2	-249.22	2	-216.81	2.35	-348.68
58	59	71.35	0.00	-4.51	1124.09	0	761.01	2	-250.67	2	-218.07	2.35	-350.72
59	59	71.35	0.00	-4.51	1124.09	0	761.01	2	-250.67	2	-218.07	2.35	-350.72
59	60	72.80	0.00	-4.51	1130.63	0	765.44	2	-252.13	2	-219.34	2.35	-352.76
60	60	72.80	0.04	-4.51	1130.66	0	765.47	2	-252.12	2	-219.34	2.35	-352.75
60	61	74.25	0.04	-4.51	1137.20	0	769.90	2	-253.58	2	-220.61	2.35	-354.80
61	61	74.25	0.04	-4.51	1137.20	0	751.70	2	-363.89	2	-316.13	2.35	-462.83
61	62	75.70	0.04	-4.51	1143.73	0	756.02	2	-365.98	2	-317.94	2.35	-465.49
62	62	75.70	0.00	-4.51	1143.70	0	755.99	2	-365.98	2	-317.95	2.35	-465.49
62	63	77.15	0.00	-4.51	1150.24	0	760.31	2	-368.08	2	-319.77	2.35	-468.15
63	63	77.15	0.00	-4.51	1150.24	0	760.31	2	-368.08	2	-319.77	2.35	-468.15
63	64	78.60	0.00	-4.51	1156.77	0	764.62	2	-370.17	2	-321.58	2.35	-470.81
64	64	78.60	0.00	-4.51	1156.77	0	764.62	2	-370.17	2	-321.58	2.35	-470.81
64	65	80.05	0.00	-4.51	1163.31	0	768.95	2	-372.26	2	-323.40	2.35	-473.47
65	65	80.05	0.00	-4.51	1163.31	0	768.95	2	-372.26	2	-323.40	2.35	-473.47
65	66	80.50	0.00	-4.51	1165.34	0	770.29	2	-372.91	2	-323.96	2.35	-474.29
66	66	80.50	0.00	-4.51	1165.34	0	770.29	2	-372.91	2	-323.96	2.35	-474.29
66	67	81.50	0.00	-4.51	1169.85	0	773.27	2	-374.35	2	-325.22	2.35	-476.13
67	1067	81.50	0.00	-4.52	1169.85	0	773.27	2	-374.35	2	-325.22	2.35	-476.13
67	68	82.50	0.00	-4.52	1174.37	0	776.26	2	-375.80	2	-326.47	2.35	-477.97
68	68	82.50	0.00	-4.52	1174.37	0	776.26	2	-375.80	2	-326.47	2.35	-477.97
68	69	83.08	0.00	-4.52	1176.97	0	777.98	2	-376.63	2	-327.20	2.35	-479.03
69	69	83.08	0.00	-4.52	1176.97	0	777.98	2	-376.63	2	-327.20	2.35	-479.03
69	70	84.65	0.00	-4.52	1184.10	0	782.69	2	-378.91	2	-329.18	2.35	-481.93
70	70	84.65	0.00	-4.52	1184.10	0	782.69	2	-378.91	2	-329.18	2.35	-481.93
70	71	86.23	0.00	-4.52	1191.22	0	787.40	2	-381.19	2	-331.16	2.35	-484.83
71	71	86.23	0.00	-4.52	1191.22	0	787.40	2	-381.19	2	-331.16	2.35	-484.83
71	72	87.80	0.00	-4.52	1198.35	0	792.11	2	-383.47	2	-333.14	2.35	-487.73
72	72	87.80	-0.04	-4.52	1198.38	0	792.11	2	-383.50	2	-333.16	2.35	-487.75
72	73	89.38	-0.04	-4.52	1205.50	0	796.82	2	-385.77	2	-335.14	2.35	-490.65
73	73	89.38	-0.04	-4.52	1205.50	0	816.11	2	-268.84	2	-233.88	2.35	-376.13
73	74	90.95	-0.04	-4.52	1212.63	0	820.94	2	-270.43	2	-235.26	2.35	-378.35
74	74	90.95	0.00	-4.52	1212.58	0	820.92	2	-270.41	2	-235.24	2.35	-378.33
74	75	92.53	0.00	-4.52	1219.71	0	825.74	2	-272.00	2	-236.62	2.35	-380.55
75	75	92.53	0.00	-4.52	1219.71	0	825.74	2	-272.00	2	-236.62	2.35	-380.55
75	76	94.10	0.00	-4.52	1226.83	0	830.56	2	-273.58	2	-238.01	2.35	-382.77
76	76	94.10	0.00	-4.52	1226.83	0	830.56	2	-273.58	2	-238.01	2.35	-382.77
76	77	95.68	0.00	-4.52	1233.96	0	835.39	2	-275.17	2	-239.38	2.35	-385.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
RPT.Esfuerzos.Tinf
Redistribucionpretensadotaller). Tensiones a tiempo Tinf
1)RPT.Esfuerzos
Coef. exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	infLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-4.52	1233.96	0	835.39	2	-275.17	2	-239.39	2.35	-385.00
77	78	97.25	0.00	-4.52	1241.09	0	840.22	2	-276.76	2	-240.77	2.35	-387.22
78	78	97.25	0.00	-4.52	1241.09	0	840.22	2	-276.76	2	-240.77	2.35	-387.22
78	79	98.83	0.00	-4.52	1248.21	0	845.04	2	-278.35	2	-242.15	2.35	-389.44
79	79	98.83	0.00	-4.52	1248.21	0	845.04	2	-278.35	2	-242.15	2.35	-389.44
79	80	100.40	0.00	-4.52	1255.33	0	849.86	2	-279.94	2	-243.53	2.35	-391.66
80	80	100.40	0.00	-4.52	1255.33	0	849.86	2	-279.94	2	-243.53	2.35	-391.66
80	81	101.98	0.00	-4.52	1262.45	0	854.68	2	-281.53	2	-244.92	2.35	-393.88
81	81	101.98	0.00	-4.52	1262.45	0	854.68	2	-281.53	2	-244.92	2.35	-393.88
81	82	103.55	0.00	-4.52	1269.56	0	859.51	2	-283.12	2	-246.30	2.35	-396.11
82	82	103.55	0.04	-4.52	1269.62	0	859.55	2	-283.11	2	-246.29	2.35	-396.11
82	83	105.13	0.04	-4.52	1276.75	0	864.37	2	-284.70	2	-247.68	2.35	-398.33
83	83	105.13	0.04	-4.52	1276.75	0	843.95	2	-408.55	2	-354.92	2.35	-519.62
83	84	106.70	0.04	-4.52	1283.87	0	848.65	2	-410.82	2	-356.90	2.35	-522.52
84	84	106.70	0.00	-4.52	1283.84	0	848.62	2	-410.83	2	-356.91	2.35	-522.52
84	85	108.28	0.00	-4.52	1290.96	0	853.32	2	-413.11	2	-358.89	2.35	-525.42
85	85	108.28	0.00	-4.52	1290.96	0	853.32	2	-413.11	2	-358.89	2.35	-525.42
85	86	109.85	0.00	-4.52	1298.09	0	858.04	2	-415.39	2	-360.87	2.35	-528.32
86	86	109.85	0.00	-4.52	1298.09	0	858.04	2	-415.39	2	-360.87	2.35	-528.32
86	87	111.43	0.00	-4.52	1305.21	0	862.74	2	-417.67	2	-362.85	2.35	-531.22
87	87	111.43	0.00	-4.52	1305.21	0	862.74	2	-417.67	2	-362.85	2.35	-531.22
87	88	112.00	0.00	-4.52	1307.81	0	864.46	2	-418.50	2	-363.57	2.35	-532.28
88	88	112.00	0.00	-4.52	1307.81	0	864.46	2	-418.50	2	-363.57	2.35	-532.28
88	89	113.00	0.00	-4.52	1312.33	0	867.45	2	-419.95	2	-364.83	2.35	-534.12
89	1089	113.00	0.00	3.88	1312.33	0	867.45	2	-419.95	2	-364.83	2.35	-534.12
89	90	114.00	0.00	3.88	1308.46	0	864.89	2	-418.71	2	-363.75	2.35	-532.54
90	90	114.00	0.00	3.88	1308.46	0	864.89	2	-418.71	2	-363.75	2.35	-532.54
90	91	114.58	0.00	3.88	1306.23	0	863.42	2	-417.99	2	-363.13	2.35	-531.64
91	91	114.58	0.00	3.88	1306.23	0	863.42	2	-417.99	2	-363.13	2.35	-531.64
91	92	116.15	0.00	3.88	1300.12	0	859.38	2	-416.04	2	-361.43	2.35	-529.15
92	92	116.15	0.00	3.88	1300.12	0	859.38	2	-416.04	2	-361.43	2.35	-529.15
92	93	117.73	0.00	3.88	1294.02	0	855.35	2	-414.09	2	-359.74	2.35	-526.67
93	93	117.73	0.00	3.88	1294.02	0	855.35	2	-414.09	2	-359.74	2.35	-526.67
93	94	119.30	0.00	3.88	1287.90	0	851.30	2	-412.13	2	-358.04	2.35	-524.18
94	94	119.30	0.03	3.88	1287.94	0	851.34	2	-412.13	2	-358.04	2.35	-524.18
94	95	120.88	0.03	3.88	1281.83	0	847.30	2	-410.17	2	-356.34	2.35	-521.70
95	95	120.88	0.03	3.88	1281.83	0	867.81	2	-285.84	2	-248.67	2.35	-399.92
95	96	122.45	0.03	3.88	1275.72	0	863.67	2	-284.48	2	-247.48	2.35	-398.02
96	96	122.45	0.00	3.88	1275.68	0	863.64	2	-284.48	2	-247.48	2.35	-398.01
96	97	124.03	0.00	3.88	1269.58	0	859.51	2	-283.12	2	-246.30	2.35	-396.11
97	97	124.03	0.00	3.88	1269.58	0	859.51	2	-283.12	2	-246.30	2.35	-396.11
97	98	125.60	0.00	3.88	1263.47	0	855.37	2	-281.75	2	-245.11	2.35	-394.20
98	98	125.60	0.00	3.88	1263.47	0	855.37	2	-281.75	2	-245.11	2.35	-394.20
98	99	127.18	0.00	3.88	1257.36	0	851.23	2	-280.39	2	-243.93	2.35	-392.30
99	99	127.18	0.00	3.88	1257.36	0	851.23	2	-280.39	2	-243.93	2.35	-392.30
)	100	128.75	0.00	3.88	1251.25	0	847.10	2	-279.03	2	-242.74	2.35	-390.39
100	101	130.33	0.00	3.88	1251.25	0	847.10	2	-279.03	2	-242.74	2.35	-390.39
101	101	130.33	0.00	3.88	1245.15	0	842.97	2	-277.67	2	-241.56	2.35	-388.49
101	102	131.90	0.00	3.88	1245.15	0	842.97	2	-277.67	2	-241.56	2.35	-388.49
102	102	131.90	0.00	3.88	1239.04	0	838.83	2	-276.31	2	-240.37	2.35	-386.58
102	103	133.48	0.00	3.88	1239.04	0	838.83	2	-276.31	2	-240.37	2.35	-386.58
103	103	133.48	0.00	3.88	1232.93	0	834.69	2	-274.94	2	-239.19	2.35	-384.67
103	104	135.05	0.00	3.88	1232.93	0	834.69	2	-274.94	2	-239.19	2.35	-384.67
104	104	135.05	-0.03	3.88	1226.82	0	830.56	2	-273.58	2	-238.00	2.35	-382.77
104	105	136.63	-0.03	3.88	1226.87	0	830.58	2	-273.60	2	-238.02	2.35	-382.79
105	105	136.63	-0.03	3.88	1220.76	0	826.44	2	-272.24	2	-236.84	2.35	-380.89
105	106	138.20	-0.03	3.88	1220.76	0	806.91	2	-390.65	2	-339.38	2.35	-496.86
106	106	138.20	0.00	3.88	1214.65	0	802.87	2	-388.70	2	-337.68	2.35	-494.37
106	107	139.78	0.00	3.88	1214.62	0	802.86	2	-388.68	2	-337.66	2.35	-494.35
107	107	139.78	0.00	3.88	1208.51	0	798.83	2	-386.72	2	-335.97	2.35	-491.86
107	108	141.35	0.00	3.88	1208.51	0	798.83	2	-386.72	2	-335.97	2.35	-491.86
108	108	141.35	0.00	3.88	1202.40	0	794.79	2	-384.77	2	-334.27	2.35	-489.38
108	109	142.93	0.00	3.88	1202.40	0	794.79	2	-384.77	2	-334.27	2.35	-489.38
109	109	142.93	0.00	3.88	1196.29	0	790.75	2	-382.81	2	-332.57	2.35	-486.89
109	110	143.50	0.00	3.88	1196.29	0	790.75	2	-382.81	2	-332.57	2.35	-486.89
110	110	143.50	0.00	3.88	1194.06	0	789.27	2	-382.10	2	-331.95	2.35	-485.98
110	111	144.50	0.00	3.88	1194.06	0	789.27	2	-382.10	2	-331.95	2.35	-485.98
11	1111	144.50	0.00	3.88	1190.19	0	786.72	2	-380.86	2	-330.87	2.35	-484.41
11	112	145.50	0.00	50.64	1190.19	0	786.72	2	-380.86	2	-330.87	2.35	-484.41
	112	145.50	0.00	50.64	1139.54	0	753.24	2	-364.65	2	-316.79	2.35	-463.79
12	113	145.68	0.00	50.64	1139.54	0	753.24	2	-364.65	2	-316.79	2.35	-463.79
13	113	145.68	0.00	50.64	1130.68	0	747.38	2	-361.82	2	-314.33	2.35	-460.19
13	114	146.85	0.00	50.64	1130.68	0	747.38	2	-361.82	2	-314.33	2.35	-460.19
14	114	146.85	0.00	50.64	1071.17	0	708.04	2	-342.77	2	-297.79	2.35	-435.97
14	115	148.03	0.00	50.64	1071.17	0	708.04	2	-342.77	2	-297.79	2.35	-435.97
				50.64	1011.66	0	668.71	2	-323.73	2	-281.24	2.35	-411.75

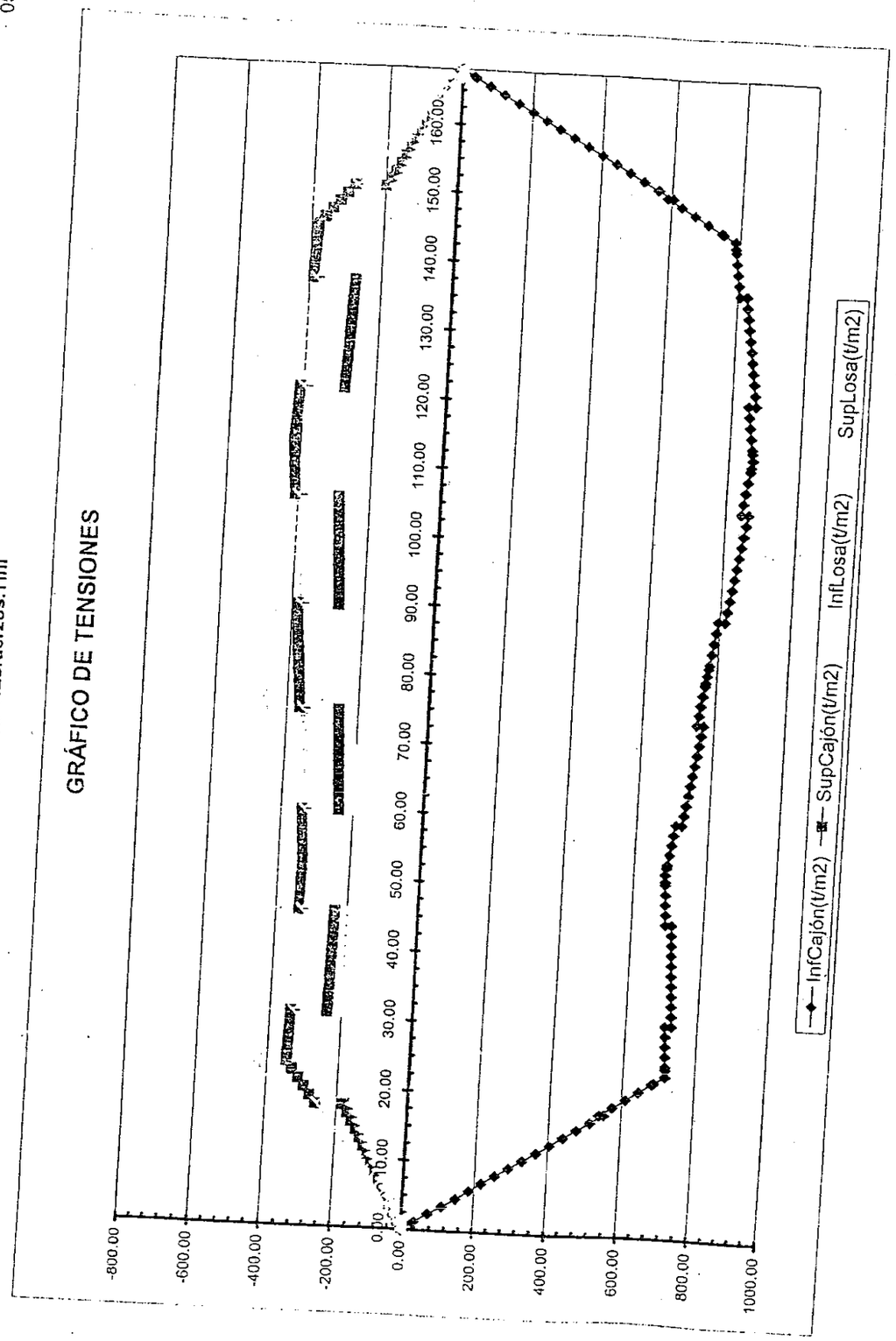
CÁLCULO TENSIONAL

Hipótesis de cálculo:
RPT.Esfuerzos.Tinf
Redistribucionpretensadotaller). Tensiones a tiempo Tinf
1)RPT.Esfuerzos
Coef. exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	50.64	1011.66	0	668.71	2	-323.73	2	-281.24	2.35	-411.75
115	116	149.20	0.00	50.64	952.15	0	629.37	2	-304.69	2	-264.70	2.35	-387.53
116	116	149.20	0.60	50.64	952.19	0	629.62	2	-304.48	2	-264.52	2.35	-387.35
116	117	150.38	0.60	50.64	892.68	0	590.28	2	-285.44	2	-247.97	2.35	-363.13
117	117	150.38	0.60	50.64	892.68	0	604.54	2	-198.87	2	-173.01	2.35	-278.35
117	118	151.55	0.60	50.64	833.17	0	564.25	2	-185.60	2	-161.46	2.35	-259.78
118	118	151.55	0.00	50.64	833.14	0	564.04	2	-185.79	2	-161.63	2.35	-259.94
118	119	152.73	0.00	50.64	773.63	0	523.75	2	-172.52	2	-150.08	2.35	-241.37
119	119	152.73	0.00	50.64	773.63	0	523.75	2	-172.52	2	-150.08	2.35	-241.37
119	120	153.90	0.00	50.64	714.12	0	483.46	2	-159.25	2	-138.54	2.35	-222.81
120	120	153.90	0.00	50.64	714.12	0	483.46	2	-159.25	2	-138.54	2.35	-222.81
120	121	155.08	0.00	50.64	654.61	0	443.17	2	-145.98	2	-126.99	2.35	-204.24
121	121	155.08	0.00	50.64	654.61	0	443.17	2	-145.98	2	-126.99	2.35	-204.24
121	122	156.25	0.00	50.64	595.10	0	402.88	2	-132.71	2	-115.45	2.35	-185.67
122	122	156.25	0.00	50.64	595.10	0	402.88	2	-132.71	2	-115.45	2.35	-185.67
122	123	157.43	0.00	50.64	535.59	0	362.59	2	-119.44	2	-103.90	2.35	-167.10
123	123	157.43	0.00	50.64	535.59	0	362.59	2	-119.44	2	-103.90	2.35	-167.10
123	124	158.60	0.00	50.64	476.09	0	322.31	2	-106.17	2	-92.36	2.35	-148.54
124	124	158.60	0.00	50.64	476.09	0	322.31	2	-106.17	2	-92.36	2.35	-148.54
124	125	159.78	0.00	50.64	416.57	0	282.02	2	-92.90	2	-80.81	2.35	-129.97
125	125	159.78	0.00	50.64	416.57	0	282.02	2	-92.90	2	-80.81	2.35	-129.97
125	126	160.95	0.00	50.64	357.06	0	241.73	2	-79.62	2	-69.27	2.35	-111.40
126	126	160.95	0.00	50.64	357.06	0	241.73	2	-79.62	2	-69.27	2.35	-111.40
126	127	162.13	0.00	50.64	297.55	0	201.44	2	-66.35	2	-57.72	2.35	-92.84
127	127	162.13	0.00	50.64	297.55	0	201.44	2	-66.35	2	-57.72	2.35	-92.84
127	128	163.30	0.00	50.64	238.03	0	161.15	2	-53.08	2	-46.18	2.35	-74.27
128	128	163.30	0.00	50.64	238.03	0	161.15	2	-53.08	2	-46.18	2.35	-74.27
128	129	164.48	0.00	50.64	178.53	0	120.86	2	-39.81	2	-34.63	2.35	-55.70
129	129	164.48	0.00	50.64	178.53	0	120.86	2	-39.81	2	-34.63	2.35	-55.70
129	130	165.65	0.00	50.64	119.02	0	80.58	2	-26.54	2	-23.09	2.35	-37.13
130	130	165.65	0.00	50.64	119.02	0	80.58	2	-26.54	2	-23.09	2.35	-37.13
130	131	166.83	0.00	50.64	59.51	0	40.29	2	-13.27	2	-11.54	2.35	-18.57
131	131	166.83	0.00	50.64	59.51	0	40.29	2	-13.27	2	-11.54	2.35	-18.57
131	132	167.00	0.00	50.64	50.64	0	34.28	2	-11.29	2	-9.82	2.35	-15.80
132	132	167.00	0.00	50.64	50.64	0	34.28	2	-11.29	2	-9.82	2.35	-15.80
132	133	168.00	0.00	50.64	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

Programa DINTEL IDEAM S.A.
RPT.Esfuerzos.Tinf

GRÁFICO DE TENSIONES



Programa DINTEL IDEAM S.A.
RPB.Esfuerzos.Tinf

CÁLCULO TENSIONAL

ipótesis de cálculo:
PB.Esfuerzos.Tinf
Redistribucionpostesadobarras). Tensiones a tiempo Tinf
)RPB.Esfuerzos
ef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-3.60	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-3.60	3.60	0	2.44	2	-0.80	2	-0.70	2.35	-1.12
2	2	1.00	0.00	-3.60	3.60	0	2.44	2	-0.80	2	-0.70	2.35	-1.12
2	3	1.18	0.00	-3.60	4.23	0	2.86	2	-0.94	2	-0.82	2.35	-1.32
3	3	1.18	0.00	-3.60	4.23	0	2.86	2	-0.94	2	-0.82	2.35	-1.32
3	4	2.35	0.00	-3.60	8.46	0	5.73	2	-1.89	2	-1.64	2.35	-2.64
4	4	2.35	0.00	-3.60	8.46	0	5.73	2	-1.89	2	-1.64	2.35	-2.64
4	5	3.53	0.00	-3.60	12.69	0	8.59	2	-2.83	2	-2.46	2.35	-3.96
5	5	3.53	0.00	-3.60	12.69	0	8.59	2	-2.83	2	-2.46	2.35	-3.96
5	6	4.70	0.00	-3.60	16.92	0	11.45	2	-3.77	2	-3.28	2.35	-5.28
6	6	4.70	0.00	-3.60	16.92	0	11.45	2	-3.77	2	-3.28	2.35	-5.28
6	7	5.88	0.00	-3.60	21.15	0	14.32	2	-4.72	2	-4.10	2.35	-6.60
7	7	5.88	0.00	-3.60	21.15	0	14.32	2	-4.72	2	-4.10	2.35	-6.60
7	8	7.05	0.00	-3.60	25.38	0	17.18	2	-5.66	2	-4.92	2.35	-7.92
8	8	7.05	0.00	-3.60	25.38	0	17.18	2	-5.66	2	-4.92	2.35	-7.92
8	9	8.23	0.00	-3.60	29.61	0	20.05	2	-6.60	2	-5.74	2.35	-9.24
9	9	8.23	0.00	-3.60	29.61	0	20.05	2	-6.60	2	-5.74	2.35	-9.24
9	10	9.40	0.00	-3.60	33.84	0	22.91	2	-7.55	2	-6.56	2.35	-10.56
10	10	9.40	0.00	-3.60	33.84	0	22.91	2	-7.55	2	-6.56	2.35	-10.56
10	11	10.58	0.00	-3.60	38.07	0	25.77	2	-8.49	2	-7.39	2.35	-11.88
11	11	10.58	0.00	-3.60	38.07	0	25.77	2	-8.49	2	-7.39	2.35	-11.88
11	12	11.75	0.00	-3.60	42.30	0	28.64	2	-9.43	2	-8.21	2.35	-13.20
12	12	11.75	0.00	-3.60	42.30	0	28.64	2	-9.43	2	-8.21	2.35	-13.20
12	13	12.93	0.00	-3.60	46.53	0	31.50	2	-10.38	2	-9.03	2.35	-14.52
13	13	12.93	0.00	-3.60	46.53	0	31.50	2	-10.38	2	-9.03	2.35	-14.52
13	14	14.10	0.00	-3.60	50.76	0	34.36	2	-11.32	2	-9.85	2.35	-15.84
14	14	14.10	0.00	-3.60	50.76	0	34.36	2	-11.32	2	-9.85	2.35	-15.84
14	15	15.28	0.00	-3.60	54.99	0	37.23	2	-12.26	2	-10.67	2.35	-17.16
15	15	15.28	0.00	-3.60	54.99	0	37.23	2	-12.26	2	-10.67	2.35	-17.16
15	16	16.45	0.00	-3.60	59.22	0	40.09	2	-13.21	2	-11.49	2.35	-18.48
16	16	16.45	0.03	-3.60	59.22	0	40.10	2	-13.20	2	-11.48	2.35	-18.47
16	17	17.63	0.03	-3.60	63.45	0	42.97	2	-14.14	2	-12.30	2.35	-19.79
17	17	17.63	0.03	-3.60	63.45	0	41.95	2	-20.29	2	-17.63	2.35	-25.81
17	18	18.80	0.03	-3.60	67.68	0	44.75	2	-21.65	2	-18.81	2.35	-27.54
18	18	18.80	0.59	-3.53	67.68	0	44.95	2	-21.44	2	-18.63	2.35	-27.36
18	19	19.98	0.59	-3.53	71.91	0	47.75	2	-22.79	2	-19.80	2.35	-29.08
19	19	19.98	0.59	-3.53	71.91	0	47.75	2	-22.79	2	-19.80	2.35	-29.08
19	20	21.15	0.59	-3.53	76.13	0	50.54	2	-24.14	2	-20.98	2.35	-30.80
20	20	21.15	0.00	-3.60	76.13	0	50.32	2	-24.36	2	-21.16	2.35	-30.98
20	21	22.33	0.00	-3.60	80.37	0	53.12	2	-25.72	2	-22.34	2.35	-32.71
21	21	22.33	0.00	-3.60	80.37	0	53.12	2	-25.72	2	-22.34	2.35	-32.71
21	22	22.50	0.00	-3.60	81.00	0	53.54	2	-25.92	2	-22.52	2.35	-32.97
22	22	22.50	0.00	-3.60	81.00	0	53.54	2	-25.92	2	-22.52	2.35	-32.97
22	23	23.50	0.00	-3.60	84.60	0	55.92	2	-27.07	2	-23.52	2.35	-34.43
23	1023	23.50	0.00	0.77	84.60	0	55.92	2	-27.07	2	-23.52	2.35	-34.43
23	24	24.50	0.00	0.77	83.84	0	55.42	2	-26.83	2	-23.31	2.35	-34.12
24	24	24.50	0.00	0.77	83.84	0	55.42	2	-26.83	2	-23.31	2.35	-34.12
24	25	24.95	0.00	0.77	83.49	0	55.19	2	-26.72	2	-23.21	2.35	-33.98
25	25	24.95	0.00	0.77	83.49	0	55.19	2	-26.72	2	-23.21	2.35	-33.98
25	26	26.40	0.00	0.77	82.37	0	54.45	2	-26.36	2	-22.90	2.35	-33.52
26	26	26.40	0.10	0.75	82.37	0	54.48	2	-26.32	2	-22.87	2.35	-33.49
26	27	27.85	0.10	0.75	81.26	0	53.75	2	-25.97	2	-22.56	2.35	-33.04
27	27	27.85	0.10	0.75	81.26	0	53.75	2	-25.97	2	-22.56	2.35	-33.04
27	28	29.30	0.10	0.75	80.16	0	53.02	2	-25.61	2	-22.25	2.35	-32.59
28	28	29.30	0.00	0.77	80.16	0	52.99	2	-25.65	2	-22.26	2.35	-32.63
28	29	30.75	0.00	0.77	79.05	0	52.25	2	-25.30	2	-21.98	2.35	-32.17
29	29	30.75	0.00	0.77	79.05	0	53.52	2	-17.63	2	-15.34	2.35	-24.66
29	30	32.20	0.00	0.77	77.94	0	52.77	2	-17.38	2	-15.12	2.35	-24.32
30	30	32.20	0.00	0.77	77.94	0	52.77	2	-17.38	2	-15.12	2.35	-24.32
30	31	33.65	0.00	0.77	76.82	0	52.01	2	-17.13	2	-14.90	2.35	-23.97
31	31	33.65	0.00	0.77	76.82	0	52.01	2	-17.13	2	-14.90	2.35	-23.97
31	32	35.10	0.00	0.77	75.71	0	51.26	2	-16.88	2	-14.69	2.35	-23.62
32	32	35.10	0.00	0.77	75.71	0	51.26	2	-16.88	2	-14.69	2.35	-23.62
32	33	36.55	0.00	0.77	74.60	0	50.50	2	-16.64	2	-14.47	2.35	-23.28
33	33	36.55	0.00	0.77	74.60	0	50.50	2	-16.64	2	-14.47	2.35	-23.28
33	34	38.00	0.00	0.77	73.49	0	49.75	2	-16.39	2	-14.26	2.35	-22.93
34	34	38.00	0.00	0.77	73.49	0	49.75	2	-16.39	2	-14.26	2.35	-22.93
34	35	39.45	0.00	0.77	72.38	0	49.00	2	-16.14	2	-14.04	2.35	-22.58
35	35	39.45	0.00	0.77	72.38	0	49.00	2	-16.14	2	-14.04	2.35	-22.58
35	36	40.90	0.00	0.77	71.27	0	48.25	2	-15.89	2	-13.83	2.35	-22.24
36	36	40.90	0.00	0.77	71.27	0	48.25	2	-15.89	2	-13.83	2.35	-22.24
36	37	42.35	0.00	0.77	70.17	0	47.51	2	-15.65	2	-13.61	2.35	-21.89
37	37	42.35	0.00	0.77	70.17	0	47.51	2	-15.65	2	-13.61	2.35	-21.89
37	38	43.80	0.00	0.77	69.05	0	46.75	2	-15.40	2	-13.40	2.35	-21.54
38	38	43.80	0.00	0.77	69.05	0	46.75	2	-15.40	2	-13.40	2.35	-21.54
38	39	45.25	0.00	0.77	67.94	0	46.00	2	-15.15	2	-13.18	2.35	-21.19

CÁLCULO TENSIONAL

Hipótesis de cálculo:
RPB.Esfuerzos.Tinf
'Redistribucionpostesadobarras). Tensiones a tiempo Tinf
[1: 1]RPB Esfuerzos
Conf exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	0.00	0.77	67.94	0	44.91	2	-21.74	2	-18.89	2.35	-27.65
39	40	46.70	0.00	0.77	66.83	0	44.17	2	-21.39	2	-18.58	2.35	-27.20
40	40	46.70	-0.10	0.75	66.83	0	44.14	2	-21.42	2	-18.61	2.35	-27.23
40	41	48.15	-0.10	0.75	65.71	0	43.40	2	-21.06	2	-18.30	2.35	-26.78
41	41	48.15	-0.10	0.75	65.71	0	43.40	2	-21.06	2	-18.30	2.35	-26.78
41	42	49.60	-0.10	0.75	64.61	0	42.67	2	-20.71	2	-17.99	2.35	-26.33
42	42	49.60	0.00	0.77	64.61	0	42.71	2	-20.68	2	-17.96	2.35	-26.30
42	43	51.05	0.00	0.77	63.50	0	41.97	2	-20.32	2	-17.65	2.35	-25.84
43	43	51.05	0.00	0.77	63.50	0	41.97	2	-20.32	2	-17.65	2.35	-25.84
43	44	51.50	0.00	0.77	63.16	0	41.75	2	-20.21	2	-17.56	2.35	-25.71
44	44	51.50	0.00	0.77	63.16	0	41.75	2	-20.21	2	-17.56	2.35	-25.71
44	45	52.50	0.00	0.77	62.39	0	41.24	2	-19.96	2	-17.34	2.35	-25.39
45	1045	52.50	0.00	-0.10	62.39	0	41.24	2	-19.96	2	-17.34	2.35	-25.39
45	46	53.50	0.00	-0.10	62.49	0	41.31	2	-20.00	2	-17.37	2.35	-25.43
46	46	53.50	0.00	-0.10	62.49	0	41.31	2	-20.00	2	-17.37	2.35	-25.43
46	47	53.95	0.00	-0.10	62.53	0	41.33	2	-20.01	2	-17.38	2.35	-25.45
47	47	53.95	0.00	-0.10	62.53	0	41.33	2	-20.01	2	-17.38	2.35	-25.45
47	48	55.40	0.00	-0.10	62.70	0	41.44	2	-20.06	2	-17.43	2.35	-25.52
48	48	55.40	-0.01	-0.10	62.70	0	41.44	2	-20.07	2	-17.43	2.35	-25.52
48	49	56.85	-0.01	-0.10	62.84	0	41.53	2	-20.11	2	-17.47	2.35	-25.56
49	49	56.85	-0.01	-0.10	62.84	0	41.53	2	-20.11	2	-17.47	2.35	-25.56
49	50	58.30	-0.01	-0.10	62.99	0	41.63	2	-20.16	2	-17.51	2.35	-25.64
50	50	58.30	0.00	-0.10	62.99	0	41.64	2	-20.16	2	-17.51	2.35	-25.64
50	51	59.75	0.00	-0.10	63.14	0	41.74	2	-20.20	2	-17.55	2.35	-25.70
51	51	59.75	0.00	-0.10	63.14	0	42.75	2	-14.08	2	-12.25	2.35	-19.70
51	52	61.20	0.00	-0.10	63.30	0	42.85	2	-14.12	2	-12.28	2.35	-19.75
52	52	61.20	0.00	-0.10	63.30	0	42.85	2	-14.12	2	-12.28	2.35	-19.75
52	53	62.65	0.00	-0.10	63.44	0	42.95	2	-14.15	2	-12.31	2.35	-19.79
53	53	62.65	0.00	-0.10	63.44	0	42.95	2	-14.15	2	-12.31	2.35	-19.79
53	54	64.10	0.00	-0.10	63.60	0	43.06	2	-14.18	2	-12.34	2.35	-19.79
54	54	64.10	0.00	-0.10	63.60	0	43.06	2	-14.18	2	-12.34	2.35	-19.84
54	55	65.55	0.00	-0.10	63.74	0	43.15	2	-14.21	2	-12.37	2.35	-19.84
55	55	65.55	0.00	-0.10	63.74	0	43.15	2	-14.21	2	-12.37	2.35	-19.89
55	56	67.00	0.00	-0.10	63.90	0	43.26	2	-14.25	2	-12.40	2.35	-19.94
56	56	67.00	0.00	-0.10	63.90	0	43.26	2	-14.25	2	-12.40	2.35	-19.94
56	57	68.45	0.00	-0.10	64.05	0	43.36	2	-14.28	2	-12.43	2.35	-19.98
57	57	68.45	0.00	-0.10	64.05	0	43.36	2	-14.28	2	-12.43	2.35	-19.98
57	58	69.90	0.00	-0.10	64.20	0	43.46	2	-14.32	2	-12.45	2.35	-20.03
58	58	69.90	0.00	-0.10	64.20	0	43.46	2	-14.32	2	-12.45	2.36	-20.03
58	59	71.35	0.00	-0.10	64.35	0	43.56	2	-14.35	2	-12.48	2.35	-20.08
59	59	71.35	0.00	-0.10	64.35	0	43.56	2	-14.35	2	-12.48	2.35	-20.08
59	60	72.80	0.00	-0.10	64.51	0	43.67	2	-14.39	2	-12.51	2.35	-20.13
60	60	72.80	0.00	-0.10	64.51	0	43.67	2	-14.39	2	-12.51	2.35	-20.13
60	61	74.25	0.00	-0.10	64.65	0	43.77	2	-14.42	2	-12.54	2.35	-20.17
61	61	74.25	0.00	-0.10	64.65	0	42.73	2	-20.69	2	-17.97	2.35	-26.31
)	62	75.70	0.00	-0.10	64.80	0	42.83	2	-20.74	2	-18.01	2.35	-26.37
62	62	75.70	0.01	-0.10	64.80	0	42.84	2	-20.73	2	-18.01	2.35	-26.37
62	63	77.15	0.01	-0.10	64.96	0	42.94	2	-20.78	2	-18.06	2.35	-26.44
63	63	77.15	0.01	-0.10	64.96	0	42.94	2	-20.78	2	-18.06	2.35	-26.44
63	64	78.60	0.01	-0.10	65.11	0	43.04	2	-20.83	2	-18.10	2.35	-26.50
64	64	78.60	0.00	-0.10	65.11	0	43.04	2	-20.84	2	-18.10	2.35	-26.50
64	65	80.05	0.00	-0.10	65.26	0	43.14	2	-20.88	2	-18.14	2.35	-26.56
65	65	80.05	0.00	-0.10	65.26	0	43.14	2	-20.88	2	-18.14	2.35	-26.56
65	66	80.50	0.00	-0.10	65.31	0	43.17	2	-20.90	2	-18.16	2.35	-26.58
66	66	80.50	0.00	-0.10	65.31	0	43.17	2	-20.90	2	-18.16	2.35	-26.58
66	67	81.50	0.00	-0.10	65.41	0	43.24	2	-20.93	2	-18.18	2.35	-26.62
67	1067	81.50	0.00	0.26	65.41	0	43.24	2	-20.93	2	-18.18	2.35	-26.62
67	68	82.50	0.00	0.26	65.16	0	43.07	2	-20.85	2	-18.11	2.35	-26.52
68	68	82.50	0.00	0.26	65.16	0	43.07	2	-20.85	2	-18.11	2.35	-26.52
68	69	83.08	0.00	0.26	65.02	0	42.98	2	-20.81	2	-18.08	2.35	-26.46
69	69	83.08	0.00	0.26	65.02	0	42.98	2	-20.81	2	-18.08	2.35	-26.46
69	70	84.65	0.00	0.26	64.63	0	42.72	2	-20.68	2	-17.97	2.35	-26.30
70	70	84.65	0.03	0.25	64.63	0	42.73	2	-20.67	2	-17.96	2.35	-26.29
70	71	86.23	0.03	0.25	64.24	0	42.47	2	-20.55	2	-17.85	2.35	-26.14
71	71	86.23	0.03	0.25	64.24	0	42.47	2	-20.55	2	-17.85	2.35	-26.14
71	72	87.80	0.03	0.25	63.84	0	42.21	2	-20.42	2	-17.74	2.35	-25.97
72	72	87.80	0.00	0.26	63.84	0	42.20	2	-20.43	2	-17.75	2.35	-25.98
72	73	89.38	0.00	0.26	63.45	0	41.94	2	-20.30	2	-17.64	2.35	-25.82
73	73	89.38	0.00	0.26	63.45	0	42.96	2	-14.15	2	-12.31	2.35	-19.80
73	74	90.95	0.00	0.26	63.07	0	42.70	2	-14.06	2	-12.24	2.35	-19.68
74	74	90.95	0.00	0.26	63.07	0	42.70	2	-14.06	2	-12.24	2.35	-19.68
74	75	92.53	0.00	0.26	62.68	0	42.43	2	-13.98	2	-12.16	2.35	-19.56
75	75	92.53	0.00	0.26	62.68	0	42.43	2	-13.98	2	-12.16	2.35	-19.56
75	76	94.10	0.00	0.26	62.29	0	42.17	2	-13.89	2	-12.08	2.35	-19.43
76	76	94.10	0.00	0.26	62.29	0	42.17	2	-13.89	2	-12.08	2.35	-19.43
76	77	95.68	0.00	0.26	61.90	0	41.91	2	-13.80	2	-12.01	2.35	-19.31

CÁLCULO TENSIONAL

Hipótesis de cálculo:
RPB.Esfuerzos.Tinf
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inf exc

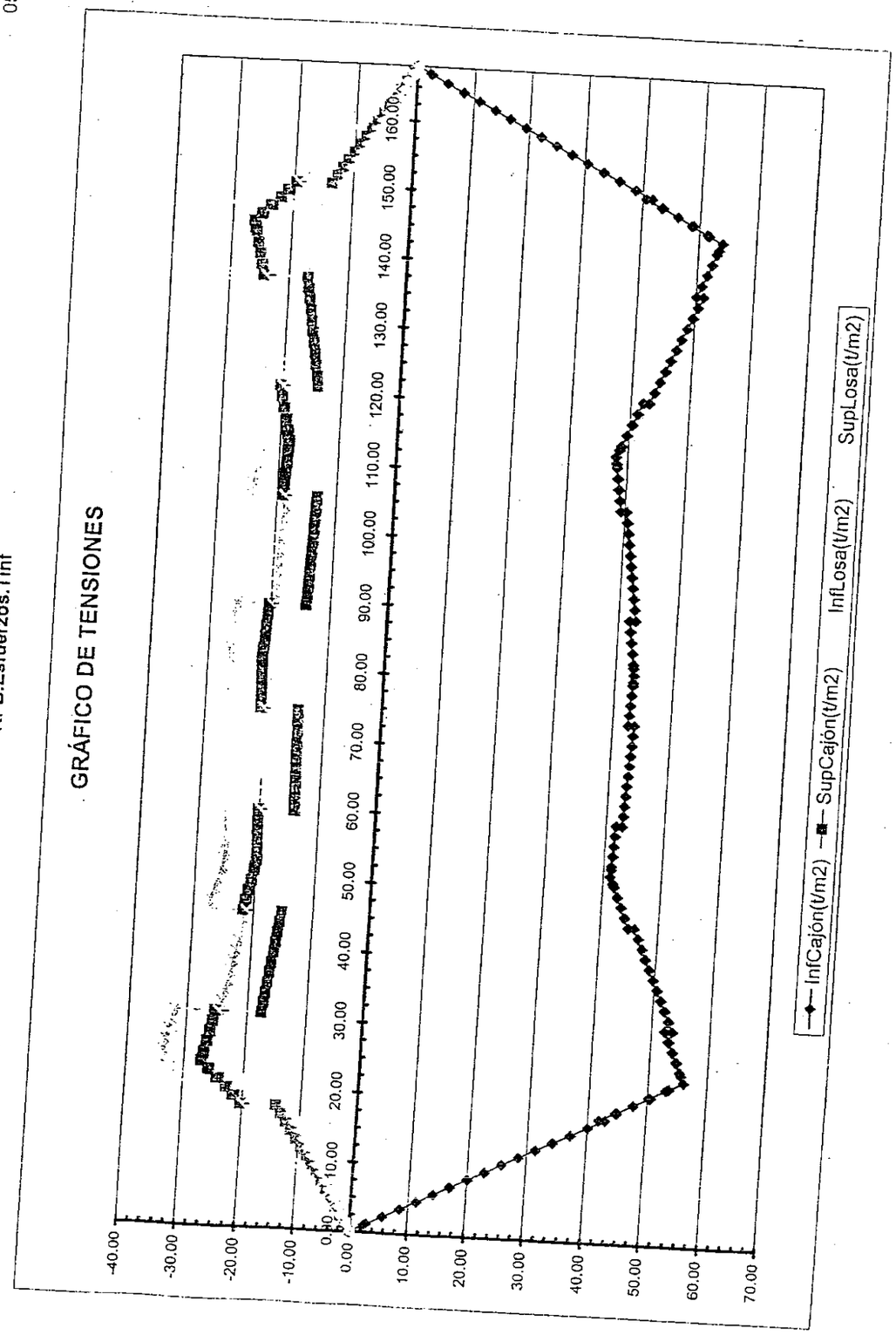
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	0.26	61.90	0	41.91	2	-13.80	2	-12.01	2.35	-19.31
77	78	97.25	0.00	0.26	61.51	0	41.64	2	-13.72	2	-11.93	2.35	-19.19
78	78	97.25	0.00	0.26	61.51	0	41.64	2	-13.72	2	-11.93	2.35	-19.19
78	79	98.83	0.00	0.26	61.12	0	41.38	2	-13.63	2	-11.86	2.35	-19.07
79	79	98.83	0.00	0.26	61.12	0	41.38	2	-13.63	2	-11.86	2.35	-19.07
79	80	100.40	0.00	0.26	60.72	0	41.11	2	-13.54	2	-11.78	2.35	-18.94
80	80	100.40	0.00	0.26	60.72	0	41.11	2	-13.54	2	-11.78	2.35	-18.94
80	81	101.98	0.00	0.26	60.34	0	40.85	2	-13.46	2	-11.71	2.35	-18.83
81	81	101.98	0.00	0.26	60.34	0	40.85	2	-13.46	2	-11.71	2.35	-18.83
81	82	103.55	0.00	0.26	59.95	0	40.59	2	-13.37	2	-11.63	2.35	-18.70
82	82	103.55	0.00	0.26	59.95	0	40.59	2	-13.37	2	-11.63	2.35	-18.70
82	83	105.13	0.00	0.26	59.56	0	40.32	2	-13.28	2	-11.55	2.35	-18.58
83	83	105.13	0.00	0.26	59.56	0	39.37	2	-19.06	2	-16.56	2.35	-24.24
83	84	106.70	0.00	0.26	59.17	0	39.11	2	-18.93	2	-16.45	2.35	-24.08
84	84	106.70	-0.03	0.25	59.17	0	39.10	2	-18.95	2	-16.46	2.35	-24.09
84	85	108.28	-0.03	0.25	58.78	0	38.84	2	-18.82	2	-16.35	2.35	-23.93
85	85	108.28	-0.03	0.25	58.78	0	38.84	2	-18.82	2	-16.35	2.35	-23.93
85	86	109.85	-0.03	0.25	58.39	0	38.58	2	-18.70	2	-16.24	2.35	-23.77
86	86	109.85	0.00	0.26	58.39	0	38.60	2	-18.68	2	-16.23	2.35	-23.76
86	87	111.43	0.00	0.26	58.00	0	38.34	2	-18.56	2	-16.12	2.35	-23.61
87	87	111.43	0.00	0.26	58.00	0	38.34	2	-18.56	2	-16.12	2.35	-23.61
87	88	112.00	0.00	0.26	57.86	0	38.25	2	-18.52	2	-16.09	2.35	-23.55
88	88	112.00	0.00	0.26	57.86	0	38.25	2	-18.52	2	-16.09	2.35	-23.55
88	89	113.00	0.00	0.26	57.60	0	38.07	2	-18.43	2	-16.01	2.35	-23.44
89	1089	113.00	0.00	-0.77	57.60	0	38.07	2	-18.43	2	-16.01	2.35	-23.44
89	90	114.00	0.00	-0.77	58.38	0	38.59	2	-18.68	2	-16.23	2.35	-23.76
90	90	114.00	0.00	-0.77	58.38	0	38.59	2	-18.68	2	-16.23	2.35	-23.76
90	91	114.58	0.00	-0.77	58.83	0	38.89	2	-18.83	2	-16.35	2.35	-23.94
91	91	114.58	0.00	-0.77	58.83	0	38.89	2	-18.83	2	-16.35	2.35	-23.94
91	92	116.15	0.00	-0.77	60.04	0	39.69	2	-19.21	2	-16.69	2.35	-24.44
92	92	116.15	-0.10	-0.77	60.04	0	39.65	2	-19.25	2	-16.72	2.35	-24.47
92	93	117.73	-0.10	-0.77	61.25	0	40.45	2	-19.64	2	-17.06	2.35	-24.96
93	93	117.73	-0.10	-0.77	61.25	0	40.45	2	-19.64	2	-17.06	2.35	-24.96
93	94	119.30	-0.10	-0.77	62.47	0	41.26	2	-20.03	2	-17.40	2.35	-25.46
94	94	119.30	0.00	-0.77	62.47	0	41.29	2	-19.99	2	-17.37	2.35	-25.43
94	95	120.88	0.00	-0.77	63.69	0	42.10	2	-20.38	2	-17.71	2.35	-25.92
95	95	120.88	0.00	-0.77	63.69	0	43.12	2	-14.20	2	-12.36	2.35	-19.87
95	96	122.45	0.00	-0.77	64.90	0	43.94	2	-14.47	2	-12.59	2.35	-20.25
96	96	122.45	0.00	-0.77	64.90	0	43.94	2	-14.47	2	-12.59	2.35	-20.25
96	97	124.03	0.00	-0.77	66.11	0	44.76	2	-14.74	2	-12.83	2.35	-20.63
97	97	124.03	0.00	-0.77	66.11	0	44.76	2	-14.74	2	-12.83	2.35	-20.63
97	98	125.60	0.00	-0.77	67.34	0	45.59	2	-15.02	2	-13.06	2.35	-21.01
98	98	125.60	0.00	-0.77	67.34	0	45.59	2	-15.02	2	-13.06	2.35	-21.01
98	99	127.18	0.00	-0.77	68.54	0	46.40	2	-15.28	2	-13.30	2.35	-21.38
99	99	127.18	0.00	-0.77	68.54	0	46.40	2	-15.28	2	-13.30	2.35	-21.38
99	100	128.75	0.00	-0.77	69.76	0	47.23	2	-15.56	2	-13.53	2.35	-21.77
100	100	128.75	0.00	-0.77	69.76	0	47.23	2	-15.56	2	-13.53	2.35	-21.77
100	101	130.33	0.00	-0.77	70.98	0	48.05	2	-15.83	2	-13.77	2.35	-22.15
101	101	130.33	0.00	-0.77	70.98	0	48.05	2	-15.83	2	-13.77	2.35	-22.15
101	102	131.90	0.00	-0.77	72.20	0	48.88	2	-16.10	2	-14.01	2.35	-22.53
102	102	131.90	0.00	-0.77	72.20	0	48.88	2	-16.10	2	-14.01	2.35	-22.53
102	103	133.48	0.00	-0.77	73.41	0	49.70	2	-16.37	2	-14.24	2.35	-22.90
103	103	133.48	0.00	-0.77	73.41	0	49.70	2	-16.37	2	-14.24	2.35	-22.90
103	104	135.05	0.00	-0.77	74.62	0	50.52	2	-16.64	2	-14.48	2.35	-23.28
104	104	135.05	0.00	-0.77	74.62	0	50.52	2	-16.64	2	-14.48	2.35	-23.28
104	105	136.63	0.00	-0.77	75.84	0	51.34	2	-16.91	2	-14.71	2.35	-23.66
105	105	136.63	0.00	-0.77	75.84	0	50.13	2	-24.27	2	-21.08	2.35	-30.87
105	106	138.20	0.00	-0.77	77.05	0	50.93	2	-24.66	2	-21.42	2.35	-31.36
106	106	138.20	0.10	-0.77	77.05	0	50.97	2	-24.62	2	-21.39	2.35	-31.33
106	107	139.78	0.10	-0.77	78.27	0	51.77	2	-25.01	2	-21.73	2.35	-31.82
107	107	139.78	0.10	-0.77	78.27	0	51.77	2	-25.01	2	-21.73	2.35	-31.82
107	108	141.35	0.10	-0.77	79.48	0	52.57	2	-25.40	2	-22.06	2.35	-32.32
108	108	141.35	0.00	-0.77	79.48	0	52.54	2	-25.43	2	-22.10	2.35	-32.35
108	109	142.93	0.00	-0.77	80.70	0	53.34	2	-25.82	2	-22.43	2.35	-32.84
109	109	142.93	0.00	-0.77	80.70	0	53.34	2	-25.82	2	-22.43	2.35	-32.84
109	110	143.50	0.00	-0.77	81.14	0	53.63	2	-25.96	2	-22.56	2.35	-33.02
110	110	143.50	0.00	-0.77	81.14	0	53.63	2	-25.96	2	-22.56	2.35	-33.02
110	111	144.50	0.00	-0.77	81.91	0	54.14	2	-26.21	2	-22.77	2.35	-33.34
111	1111	144.50	0.00	3.49	81.91	0	54.14	2	-26.21	2	-22.77	2.35	-33.34
111	112	145.50	0.00	3.49	78.43	0	51.84	2	-25.10	2	-21.80	2.35	-31.92
112	112	145.50	0.00	3.49	78.43	0	51.84	2	-25.10	2	-21.80	2.35	-31.92
112	113	145.68	0.00	3.49	77.82	0	51.44	2	-24.90	2	-21.63	2.35	-31.67
113	113	145.68	0.00	3.49	77.82	0	51.44	2	-24.90	2	-21.63	2.35	-31.67
113	114	146.85	0.00	3.49	73.72	0	48.73	2	-23.59	2	-20.49	2.35	-30.00
114	114	146.85	0.56	3.41	73.72	0	48.94	2	-23.38	2	-20.32	2.35	-29.83
114	115	148.03	0.56	3.41	69.63	0	46.12	2	-22.08	2	-19.21	2.35	-28.34

CÁLCULO TENSIONAL

Hipótesis de cálculo:
RPB.Esfuerzos.Tinf
redistribucionpostesadobarras). Tensiones a tiempo Tinf
1. 1)RPB Esfuerzos
Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.56	3.41	69.63	0	46.23	2	-22.08	2	-19.18	2.35	-28.16
115	116	149.20	0.56	3.41	65.54	0	43.53	2	-20.77	2	-18.04	2.35	-26.5(
116	116	149.20	0.03	3.49	65.54	0	43.33	2	-20.96	2	-18.21	2.35	-26.67
116	117	150.38	0.03	3.49	61.44	0	40.62	2	-19.65	2	-17.07	2.35	-25.0(
117	117	150.38	0.03	3.49	61.44	0	41.60	2	-13.69	2	-11.91	2.35	-19.1(
117	118	151.55	0.03	3.49	57.34	0	38.83	2	-12.78	2	-11.12	2.35	-17.8(
118	118	151.55	0.00	3.49	57.34	0	38.82	2	-12.79	2	-11.12	2.35	-17.8(
118	119	152.73	0.00	3.49	53.24	0	36.04	2	-11.87	2	-10.33	2.35	-16.61
119	119	152.73	0.00	3.49	53.24	0	36.04	2	-11.87	2	-10.33	2.35	-16.61
119	120	153.90	0.00	3.49	49.16	0	33.28	2	-10.96	2	-9.54	2.35	-15.34
120	120	153.90	0.00	3.49	49.16	0	33.28	2	-10.96	2	-9.54	2.35	-15.34
120	121	155.08	0.00	3.49	45.05	0	30.50	2	-10.05	2	-8.74	2.35	-14.0(
121	121	155.08	0.00	3.49	45.05	0	30.50	2	-10.05	2	-8.74	2.35	-14.0(
121	122	156.25	0.00	3.49	40.95	0	27.72	2	-9.13	2	-7.94	2.35	-12.7(
122	122	156.25	0.00	3.49	40.95	0	27.72	2	-9.13	2	-7.94	2.35	-12.7(
122	123	157.43	0.00	3.49	36.86	0	24.95	2	-8.22	2	-7.15	2.35	-11.5(
123	123	157.43	0.00	3.49	36.86	0	24.95	2	-8.22	2	-7.15	2.35	-11.5(
123	124	158.60	0.00	3.49	32.77	0	22.19	2	-7.31	2	-6.36	2.35	-10.2(
124	124	158.60	0.00	3.49	32.77	0	22.19	2	-7.31	2	-6.36	2.35	-10.2(
124	125	159.78	0.00	3.49	28.67	0	19.41	2	-6.39	2	-5.56	2.35	-8.9(
125	125	159.78	0.00	3.49	28.67	0	19.41	2	-6.39	2	-5.56	2.35	-8.9(
125	126	160.95	0.00	3.49	24.57	0	16.63	2	-5.48	2	-4.77	2.35	-7.67
126	126	160.95	0.00	3.49	24.57	0	16.63	2	-5.48	2	-4.77	2.35	-7.67
126	127	162.13	0.00	3.49	20.48	0	13.86	2	-4.57	2	-3.97	2.35	-6.39
127	127	162.13	0.00	3.49	20.48	0	13.86	2	-4.57	2	-3.97	2.35	-6.39
127	128	163.30	0.00	3.49	16.39	0	11.10	2	-3.65	2	-3.18	2.35	-5.11
128	128	163.30	0.00	3.49	16.39	0	11.10	2	-3.65	2	-3.18	2.35	-5.11
128	129	164.48	0.00	3.49	12.29	0	8.32	2	-2.74	2	-2.38	2.35	-3.8(
129	129	164.48	0.00	3.49	12.29	0	8.32	2	-2.74	2	-2.38	2.35	-3.8(
129	130	165.65	0.00	3.49	8.19	0	5.54	2	-1.83	2	-1.59	2.35	-2.5(
130	130	165.65	0.00	3.49	8.19	0	5.54	2	-1.83	2	-1.59	2.35	-2.5(
130	131	166.83	0.00	3.49	4.10	0	2.78	2	-0.91	2	-0.80	2.35	-1.2(
131	131	166.83	0.00	3.49	4.10	0	2.78	2	-0.91	2	-0.80	2.35	-1.2(
131	132	167.00	0.00	3.49	3.49	0	2.36	2	-0.78	2	-0.68	2.35	-1.0(
132	132	167.00	0.00	3.49	3.49	0	2.36	2	-0.78	2	-0.68	2.35	-1.0(
132	133	168.00	0.00	3.49	0.00	0	0.00	2	0.00	2	0.00	2.35	0.0(

GRÁFICO DE TENSIONES



CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase8.ISO.To.Tinf
Pretensadolsostático(t=0)). Tensiones a tiempo Tinf
.. 1\fase8.ISO.To
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
2	2	1.00	-501.48	0.00	-578.57	0	-556.68	2	-35.97	2	-30.68	2.35	37.59
2	3	1.18	-501.48	0.00	-578.57	0	-556.68	2	-35.97	2	-30.68	2.35	37.59
3	3	1.18	-501.48	0.00	-578.57	0	-556.68	2	-35.97	2	-30.68	2.35	37.59
3	4	2.35	-501.48	0.00	-578.57	0	-556.68	2	-35.97	2	-30.68	2.35	37.59
4	4	2.35	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
4	5	3.53	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
5	5	3.53	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
5	6	4.70	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
6	6	4.70	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
6	7	5.88	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
7	7	5.88	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
7	8	7.05	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
8	8	7.05	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
8	9	8.23	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
9	9	8.23	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
9	10	9.40	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
10	10	9.40	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
10	11	10.58	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
11	11	10.58	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
1	12	11.75	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
12	12	11.75	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
12	13	12.93	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
13	13	12.93	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
13	14	14.10	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
14	14	14.10	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
14	15	15.28	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
15	15	15.28	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
15	16	16.45	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
16	16	16.45	-923.38	-10.93	-1184.00	0	-1105.36	2	-39.76	2	-33.47	2.35	106.25
16	17	17.63	-923.38	-10.93	-1171.07	0	-1096.61	2	-42.64	2	-35.98	2.35	106.24
17	17	17.63	-923.38	-10.93	-1171.07	0	-1113.88	2	34.94	2	31.00	2.35	102.21
17	18	18.80	-923.38	-10.93	-1158.14	0	-1105.33	2	30.80	2	27.40	2.35	182.07
18	18	18.80	-923.44	0.00	-1158.22	0	-1105.41	2	30.80	2	27.41	2.35	176.80
18	19	19.98	-923.44	0.00	-1158.22	0	-1105.41	2	30.80	2	27.41	2.35	176.82
19	19	19.98	-923.44	0.00	-1158.22	0	-1105.41	2	30.80	2	27.41	2.35	176.82
19	20	21.15	-923.44	0.00	-1158.22	0	-1105.41	2	30.80	2	27.41	2.35	176.82
20	20	21.15	-501.48	0.00	-564.52	0	-557.69	2	-3.90	2	-3.04	2.35	69.79
20	21	22.33	-501.48	0.00	-564.52	0	-557.69	2	-3.90	2	-3.04	2.35	69.79
21	21	22.33	-501.48	0.00	-564.52	0	-557.69	2	-3.90	2	-3.04	2.35	69.79
21	22	22.50	-501.48	0.00	-564.52	0	-557.69	2	-3.90	2	-3.04	2.35	69.79
22	22	22.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
22	23	23.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
23	1023	23.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
24	24	24.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
24	24	24.50	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
25	25	24.95	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
25	26	26.40	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
26	26	26.40	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
26	27	27.85	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
27	27	27.85	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
27	28	29.30	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
28	28	29.30	-1383.70	13.27	-1795.84	0	-1696.25	2	65.47	2	57.84	2.35	289.51
28	29	30.75	-1383.70	13.27	-1815.21	0	-1709.06	2	71.67	2	63.23	2.35	297.39
29	29	30.75	-1383.70	13.27	-1815.21	0	-1684.13	2	-50.45	2	-42.20	2.35	171.99
29	30	32.20	-1383.70	13.27	-1834.58	0	-1697.25	2	-46.13	2	-38.45	2.35	178.03
30	30	32.20	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
30	31	33.65	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
31	31	33.65	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
31	32	35.10	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
32	32	35.10	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
32	33	36.55	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
33	33	36.55	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
33	34	38.00	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
34	34	38.00	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
34	35	39.45	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
35	35	39.45	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
	36	40.90	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
36	36	40.90	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
36	37	42.35	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
37	37	42.35	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
37	38	43.80	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
38	38	43.80	-1383.70	-13.27	-1834.58	0	-1697.25	2	-46.13	2	-38.45	2.35	178.04
38	39	45.25	-1383.70	-13.27	-1815.21	0	-1684.13	2	-50.45	2	-42.20	2.35	171.99

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase8.ISO.To.Tinf
Pretensadolsostático(t=0)). Tensiones a tiempo Tinf
. 1\fase8.ISO.To
ef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1383.70	-13.27	-1815.21	0	-1709.06	2	71.67	2	63.23	2.35	297.39
39	40	46.70	-1383.70	-13.27	-1795.84	0	-1696.25	2	65.47	2	57.84	2.35	289.51
40	40	46.70	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
40	41	48.15	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
41	41	48.15	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
41	42	49.60	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
42	42	49.60	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
42	43	51.05	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
43	43	51.05	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
43	44	51.50	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
44	44	51.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
44	45	52.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	1045	52.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	46	53.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
46	46	53.50	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
46	47	53.95	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
47	47	53.95	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
47	48	55.40	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
48	48	55.40	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
48	49	56.85	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
49	49	56.85	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
49	50	58.30	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
50	50	58.30	-1383.70	13.27	-1795.84	0	-1696.25	2	65.47	2	57.84	2.35	289.51
50	51	59.75	-1383.70	13.27	-1815.21	0	-1709.06	2	71.67	2	63.23	2.35	297.39
51	51	59.75	-1383.70	13.27	-1815.21	0	-1684.13	2	-50.45	2	-42.20	2.35	171.99
51	52	61.20	-1383.70	13.27	-1834.58	0	-1697.25	2	-46.13	2	-38.45	2.35	178.03
52	52	61.20	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
52	53	62.65	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
53	53	62.65	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
53	54	64.10	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
54	54	64.10	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
54	55	65.55	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
55	55	65.55	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
55	56	67.00	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
56	56	67.00	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
56	57	68.45	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
57	57	68.45	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
57	58	69.90	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
58	58	69.90	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
58	59	71.35	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
59	59	71.35	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
59	60	72.80	-1383.76	0.00	-1834.66	0	-1697.32	2	-46.13	2	-38.45	2.35	178.04
60	60	72.80	-1383.70	-13.27	-1834.58	0	-1697.25	2	-46.13	2	-38.45	2.35	178.04
60	61	74.25	-1383.70	-13.27	-1815.21	0	-1684.13	2	-50.45	2	-42.20	2.35	171.99
61	61	74.25	-1383.70	-13.27	-1815.21	0	-1709.06	2	71.67	2	63.23	2.35	297.39
61	62	75.70	-1383.70	-13.27	-1795.84	0	-1696.25	2	65.47	2	57.84	2.35	289.51
62	62	75.70	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
62	63	77.15	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
63	63	77.15	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
63	64	78.60	-1000.16	0.00	-1266.93	0	-1205.50	2	37.36	2	33.16	2.35	196.59
64	64	78.60	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
64	65	80.05	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
65	65	80.05	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
65	66	80.50	-539.84	0.00	-619.26	0	-607.99	2	-0.50	2	-0.05	2.35	79.83
66	66	80.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
66	67	81.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	1067	81.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	68	82.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
68	68	82.50	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
68	69	83.08	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
69	69	83.08	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
69	70	84.65	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
70	70	84.65	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
70	71	86.23	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
71	71	86.23	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
71	72	87.80	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
72	72	87.80	-1690.57	14.92	-2224.85	0	-2092.76	2	89.82	2	79.22	2.35	366.22
72	73	89.38	-1690.57	14.92	-2248.52	0	-2108.40	2	97.40	2	85.80	2.35	375.86
73	73	89.38	-1690.57	14.92	-2248.52	0	-2078.45	2	-54.78	2	-45.60	2.35	219.73
73	74	90.95	-1690.57	14.92	-2272.19	0	-2094.47	2	-49.50	2	-41.01	2.35	227.11
74	74	90.95	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
74	75	92.53	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
75	75	92.53	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
75	76	94.10	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
76	76	94.10	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
76	77	95.68	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12

CÁLCULO TENSIONAL

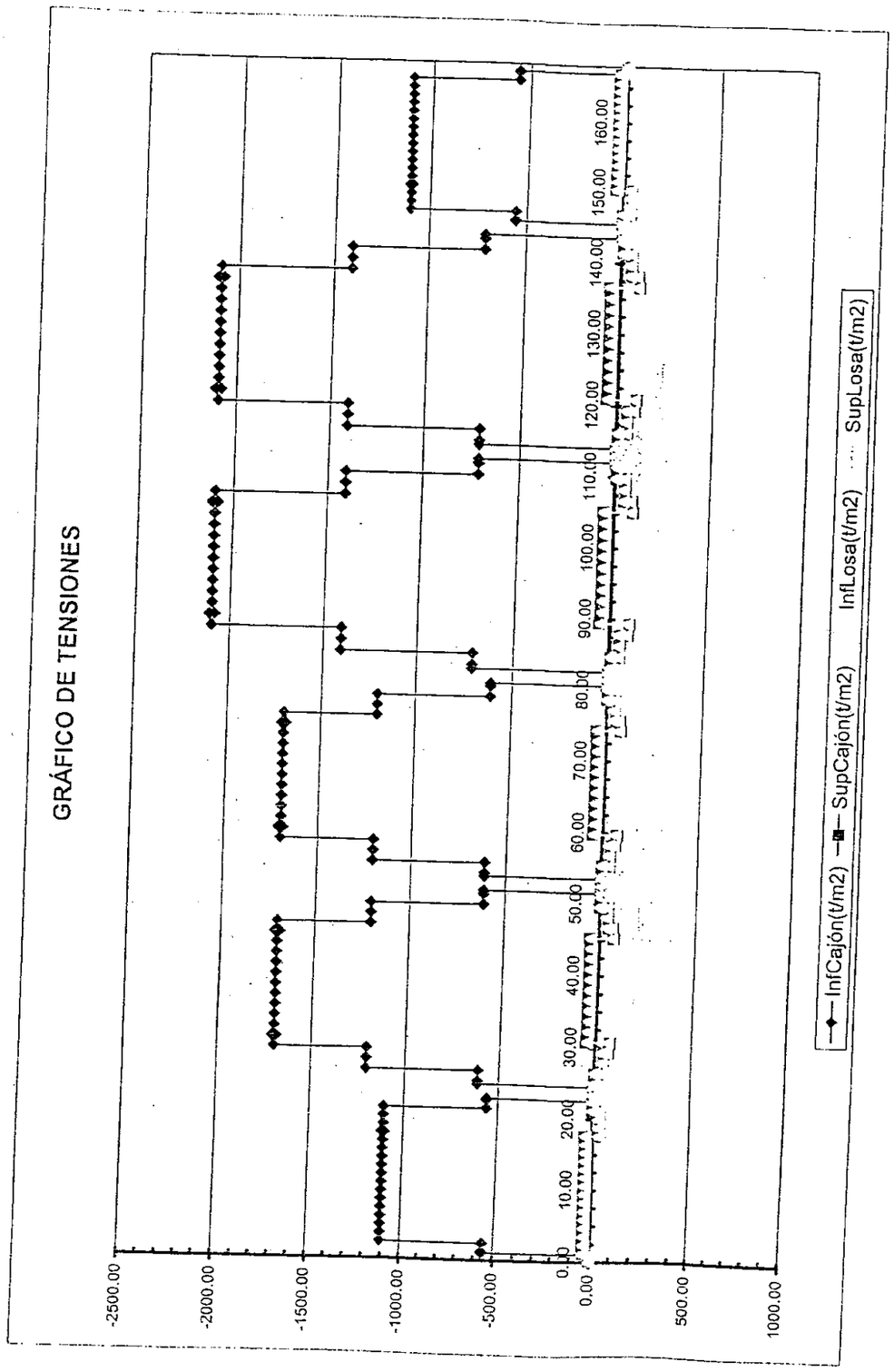
Hipótesis de cálculo:
fase8.ISO.To.Tinf
Pretensado/sostático(t=0)). Tensiones a tiempo Tinf
fase8 ISO To
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
77	78	97.25	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
78	78	97.25	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
78	79	98.83	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
79	79	98.83	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
79	80	100.40	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
80	80	100.40	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
80	81	101.98	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
81	81	101.98	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
81	82	103.55	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
82	82	103.55	-1690.57	-14.92	-2272.19	0	-2094.47	2	-49.50	2	-41.01	2.35	227.12
82	83	105.13	-1690.57	-14.92	-2248.52	0	-2078.45	2	-54.78	2	-45.60	2.35	219.73
83	83	105.13	-1690.57	-14.92	-2248.52	0	-2108.40	2	97.40	2	85.80	2.35	375.86
83	84	106.70	-1690.57	-14.92	-2224.85	0	-2092.76	2	89.82	2	79.22	2.35	366.22
84	84	106.70	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
84	85	108.28	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
85	85	108.28	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
85	86	109.85	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
86	86	109.85	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
86	87	111.43	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
87	87	111.43	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
87	88	112.00	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
88	88	112.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
88	89	113.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	1089	113.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	90	114.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
90	90	114.00	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
90	91	114.58	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
91	91	114.58	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
91	92	116.15	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
92	92	116.15	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
92	93	117.73	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
93	93	117.73	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
93	94	119.30	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
94	94	119.30	-1690.57	14.92	-2224.85	0	-2092.76	2	89.82	2	79.22	2.35	366.22
94	95	120.88	-1690.57	14.92	-2248.52	0	-2108.40	2	97.40	2	85.80	2.35	375.86
95	95	120.88	-1690.57	14.92	-2248.52	0	-2078.45	2	-54.78	2	-45.60	2.35	219.73
95	96	122.45	-1690.57	14.92	-2272.19	0	-2094.47	2	-49.50	2	-41.01	2.35	227.11
96	96	122.45	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
96	97	124.03	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
97	97	124.03	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
97	98	125.60	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
98	98	125.60	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
98	99	127.18	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
99	99	127.18	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
1	100	128.75	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
1	101	130.33	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
101	101	130.33	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
101	102	131.90	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
102	102	131.90	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
102	103	133.48	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
103	103	133.48	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
103	104	135.05	-1690.64	0.00	-2272.27	0	-2094.55	2	-49.50	2	-41.01	2.35	227.12
104	104	135.05	-1690.57	-14.92	-2272.19	0	-2094.47	2	-49.50	2	-41.01	2.35	227.12
104	105	136.63	-1690.57	-14.92	-2248.52	0	-2078.45	2	-54.78	2	-45.60	2.35	219.73
105	105	136.63	-1690.57	-14.92	-2248.52	0	-2108.40	2	97.40	2	85.80	2.35	375.86
105	106	138.20	-1690.57	-14.92	-2224.85	0	-2092.76	2	89.82	2	79.22	2.35	366.22
106	106	138.20	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
106	107	139.78	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
107	107	139.78	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
107	108	141.35	-1153.60	0.00	-1484.36	0	-1405.69	2	50.47	2	44.65	2.35	236.14
108	108	141.35	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
108	109	142.93	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
109	109	142.93	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
109	110	143.50	-616.56	0.00	-728.74	0	-708.59	2	6.30	2	5.91	2.35	99.91
110	110	143.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
110	111	144.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
111	1111	144.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
-	112	145.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
112	112	145.50	-501.48	0.00	-564.52	0	-557.69	2	-3.90	2	-3.04	2.35	69.79
113	113	145.68	-501.48	0.00	-564.52	0	-557.69	2	-3.90	2	-3.04	2.35	69.79
13	113	145.68	-501.48	0.00	-564.52	0	-557.69	2	-3.90	2	-3.04	2.35	69.79
13	114	146.85	-501.48	0.00	-564.52	0	-557.69	2	-3.90	2	-3.04	2.35	69.79
14	114	146.85	-923.44	0.00	-1158.22	0	-1105.41	2	30.80	2	27.41	2.35	176.82
14	115	148.03	-923.44	0.00	-1158.22	0	-1105.41	2	30.80	2	27.41	2.35	176.82

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase8.ISO.To.Tinf
Pretensado/sostático(t=0)). Tensiones a tiempo Tinf
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Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-923.44	0.00	-1158.22	0	-1105.41	2	30.80	2	27.41	2.35	176.82
115	116	149.20	-923.44	0.00	-1158.22	0	-1105.41	2	30.80	2	27.41	2.35	176.82
116	116	149.20	-923.38	10.93	-1158.14	0	-1105.33	2	30.80	2	27.41	2.35	176.82
116	117	150.38	-923.38	10.93	-1171.07	0	-1113.88	2	34.94	2	27.40	2.35	176.80
117	117	150.38	-923.38	10.93	-1171.07	0	-1096.61	2	-42.64	2	31.00	2.35	182.07
117	118	151.55	-923.38	10.93	-1184.00	0	-1105.36	2	-39.76	2	-35.98	2.35	102.21
118	118	151.55	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.24
118	119	152.73	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
119	119	152.73	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
119	120	153.90	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
120	120	153.90	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
120	121	155.08	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
121	121	155.08	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
121	122	156.25	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
122	122	156.25	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
122	123	157.43	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
123	123	157.43	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
123	124	158.60	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
124	124	158.60	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
124	125	159.78	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
125	125	159.78	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
125	126	160.95	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
126	126	160.95	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
126	127	162.13	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
127	127	162.13	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
127	128	163.30	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
128	128	163.30	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
128	129	164.48	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
129	129	164.48	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
129	130	165.65	-923.44	0.00	-1184.08	0	-1105.43	2	-39.76	2	-33.47	2.35	106.25
130	130	165.65	-501.48	0.00	-578.57	0	-556.68	2	-35.97	2	-30.68	2.35	37.59
130	131	166.83	-501.48	0.00	-578.57	0	-556.68	2	-35.97	2	-30.68	2.35	37.59
131	131	166.83	-501.48	0.00	-578.57	0	-556.68	2	-35.97	2	-30.68	2.35	37.59
131	132	167.00	-501.48	0.00	-578.57	0	-556.68	2	-35.97	2	-30.68	2.35	37.59
132	132	167.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
132	133	168.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



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CÁLCULO TENSIONAL

Hipótesis de cálculo:
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PretensadoHiperestático(t=0)). Tensiones a tiempo Tinf
fase8.HIP.To
inf exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-54.41	0.00								
1	2	1.00	0.00	-54.41	54.41	0	0.00	2	0.00	2	0.00	2.35	0.00
2	2	1.00	0.00	-54.41	54.41	0	36.84	2	-12.13	2	-10.56	2.35	-16.98
2	3	1.18	0.00	-54.41	63.93	0	36.84	2	-12.13	2	-10.56	2.35	-16.98
3	3	1.18	0.00	-54.41	63.93	0	43.28	2	-14.26	2	-12.40	2.35	-19.95
3	4	2.35	0.00	-54.41	127.86	0	43.28	2	-14.26	2	-12.40	2.35	-19.95
4	4	2.35	0.00	-54.41	127.86	0	86.56	2	-28.51	2	-24.80	2.35	-39.89
4	5	3.53	0.00	-54.41	191.79	0	86.56	2	-28.51	2	-24.80	2.35	-39.89
5	5	3.53	0.00	-54.41	191.79	0	129.84	2	-42.77	2	-37.21	2.35	-59.84
5	6	4.70	0.00	-54.41	255.72	0	129.84	2	-42.77	2	-37.21	2.35	-59.84
6	6	4.70	0.00	-54.41	255.72	0	173.12	2	-57.03	2	-49.61	2.35	-79.78
6	7	5.88	0.00	-54.41	319.65	0	173.12	2	-57.03	2	-49.61	2.35	-79.78
7	7	5.88	0.00	-54.41	319.65	0	216.40	2	-71.28	2	-62.01	2.35	-99.73
7	8	7.05	0.00	-54.41	383.58	0	216.40	2	-71.28	2	-62.01	2.35	-99.73
8	8	7.05	0.00	-54.41	383.58	0	259.68	2	-85.54	2	-74.41	2.35	-119.68
8	9	8.23	0.00	-54.41	447.51	0	259.68	2	-85.54	2	-74.41	2.35	-119.68
9	9	8.23	0.00	-54.41	447.51	0	302.96	2	-99.79	2	-86.82	2.35	-139.62
9	10	9.40	0.00	-54.41	511.44	0	302.96	2	-99.79	2	-86.82	2.35	-139.62
10	10	9.40	0.00	-54.41	511.44	0	346.24	2	-114.05	2	-99.22	2.35	-159.57
10	11	10.58	0.00	-54.41	575.37	0	346.24	2	-114.05	2	-99.22	2.35	-159.57
11	11	10.58	0.00	-54.41	575.37	0	389.53	2	-128.31	2	-111.62	2.35	-179.52
11	12	11.75	0.00	-54.41	639.30	0	389.53	2	-128.31	2	-111.62	2.35	-179.52
12	12	11.75	0.00	-54.41	639.30	0	432.81	2	-142.56	2	-124.02	2.35	-199.46
12	13	12.93	0.00	-54.41	703.23	0	432.81	2	-142.56	2	-124.02	2.35	-199.46
13	13	12.93	0.00	-54.41	703.23	0	476.09	2	-156.82	2	-136.43	2.35	-219.41
13	14	14.10	0.00	-54.41	767.16	0	476.09	2	-156.82	2	-136.43	2.35	-219.41
14	14	14.10	0.00	-54.41	767.16	0	519.37	2	-171.08	2	-148.83	2.35	-239.35
14	15	15.28	0.00	-54.41	831.08	0	519.37	2	-171.08	2	-148.83	2.35	-239.35
15	15	15.28	0.00	-54.41	831.08	0	562.64	2	-185.33	2	-161.23	2.35	-259.30
15	16	16.45	0.00	-54.41	895.01	0	562.64	2	-185.33	2	-161.23	2.35	-259.30
15	16	16.45	0.64	-54.40	894.93	0	605.92	2	-199.59	2	-173.63	2.35	-279.24
16	17	17.63	0.64	-54.40	958.86	0	606.08	2	-199.36	2	-173.43	2.35	-279.04
17	17	17.63	0.64	-54.40	958.86	0	649.36	2	-213.62	2	-185.84	2.35	-298.98
17	18	18.80	0.64	-54.40	1022.79	0	634.04	2	-306.60	2	-266.36	2.35	-390.05
18	18	18.80	0.00	-54.41	1022.87	0	676.30	2	-327.06	2	-284.13	2.35	-416.07
18	19	19.98	0.00	-54.41	1086.80	0	676.12	2	-327.32	2	-284.36	2.35	-416.31
19	19	19.98	0.00	-54.41	1086.80	0	718.37	2	-347.78	2	-302.13	2.35	-442.33
19	20	21.15	0.00	-54.41	1150.73	0	718.37	2	-347.78	2	-302.13	2.35	-442.33
20	20	21.15	0.00	-54.41	1150.73	0	760.63	2	-368.23	2	-319.90	2.35	-468.35
20	21	22.33	0.00	-54.41	1214.66	0	760.63	2	-368.23	2	-319.90	2.35	-468.35
21	21	22.33	0.00	-54.41	1214.66	0	802.89	2	-388.69	2	-337.68	2.35	-494.37
21	22	22.50	0.00	-54.41	1224.18	0	802.89	2	-388.69	2	-337.68	2.35	-494.37
22	22	22.50	0.00	-54.41	1224.18	0	809.18	2	-391.74	2	-340.32	2.35	-498.24
22	23	23.50	0.00	-54.41	1278.59	0	809.18	2	-391.74	2	-340.32	2.35	-498.24
23	1023	23.50	0.00	1.93	1278.59	0	845.15	2	-409.15	2	-355.45	2.35	-520.39
23	24	24.50	0.00	1.93	1276.66	0	845.15	2	-409.15	2	-355.45	2.35	-520.39
24	24	24.50	0.00	1.93	1276.66	0	843.87	2	-408.53	2	-354.91	2.35	-519.60
24	25	24.95	0.00	1.93	1275.78	0	843.87	2	-408.53	2	-354.91	2.35	-519.60
25	25	24.95	0.00	1.93	1275.78	0	843.29	2	-408.25	2	-354.67	2.35	-519.24
25	26	26.40	0.00	1.93	1272.98	0	843.29	2	-408.25	2	-354.67	2.35	-519.24
26	26	26.40	0.00	1.93	1272.98	0	841.44	2	-407.35	2	-353.89	2.35	-518.10
26	27	27.85	0.00	1.93	1270.17	0	841.44	2	-407.35	2	-353.89	2.35	-518.10
27	27	27.85	0.00	1.93	1270.17	0	839.58	2	-406.45	2	-353.11	2.35	-516.96
27	28	29.30	0.00	1.93	1267.37	0	839.58	2	-406.45	2	-353.11	2.35	-516.96
28	28	29.30	0.02	1.93	1267.31	0	837.73	2	-405.56	2	-352.33	2.35	-515.82
28	29	30.75	0.02	1.93	1264.51	0	837.70	2	-405.53	2	-352.31	2.35	-515.79
29	29	30.75	0.02	1.93	1264.51	0	835.85	2	-404.64	2	-351.53	2.35	-514.65
29	30	32.20	0.02	1.93	1261.70	0	856.08	2	-281.98	2	-245.31	2.35	-394.52
30	30	32.20	0.00	1.93	1261.78	0	854.18	2	-281.35	2	-244.76	2.35	-393.64
30	31	33.65	0.00	1.93	1258.98	0	854.23	2	-281.38	2	-244.79	2.35	-393.68
31	31	33.65	0.00	1.93	1258.98	0	852.33	2	-280.75	2	-244.24	2.35	-392.80
31	32	35.10	0.00	1.93	1256.17	0	852.33	2	-280.75	2	-244.24	2.35	-392.80
32	32	35.10	0.00	1.93	1256.17	0	850.43	2	-280.13	2	-243.70	2.35	-391.93
32	33	36.55	0.00	1.93	1253.37	0	850.43	2	-280.13	2	-243.70	2.35	-391.93
33	33	36.55	0.00	1.93	1253.37	0	848.53	2	-279.50	2	-243.15	2.35	-391.05
33	34	38.00	0.00	1.93	1250.56	0	848.53	2	-279.50	2	-243.15	2.35	-391.05
34	34	38.00	0.00	1.93	1250.56	0	846.63	2	-278.87	2	-242.61	2.35	-390.17
34	35	39.45	0.00	1.93	1247.76	0	846.63	2	-278.87	2	-242.61	2.35	-390.17
35	35	39.45	0.00	1.93	1247.76	0	844.73	2	-278.25	2	-242.07	2.35	-389.30
35	36	40.90	0.00	1.93	1244.95	0	844.73	2	-278.25	2	-242.07	2.35	-389.30
36	36	40.90	0.00	1.93	1244.95	0	842.83	2	-277.62	2	-241.52	2.35	-388.42
36	37	42.35	0.00	1.93	1242.15	0	842.83	2	-277.62	2	-241.52	2.35	-388.42
37	37	42.35	0.00	1.93	1242.15	0	840.94	2	-277.00	2	-240.98	2.35	-387.55
37	38	43.80	0.00	1.93	1239.34	0	840.94	2	-277.00	2	-240.98	2.35	-387.55
38	38	43.80	-0.02	1.93	1239.26	0	839.03	2	-276.37	2	-240.43	2.35	-386.67
38	39	45.25	-0.02	1.93	1236.45	0	838.97	2	-276.36	2	-240.42	2.35	-386.65
						0	837.07	2	-275.73	2	-239.88	2.35	-385.78

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase8.HIP.To.Tinf
PretensadoHiperestático(t=0)). Tensiones a tiempo Tinf
1)fase8 HIP To
Coef exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-0.02	1.93	1236.45	0	817.29	2	-395.67	2	-343.74	2.35	-503.24
39	40	46.70	-0.02	1.93	1233.65	0	815.44	2	-394.78	2	-342.96	2.35	-502.10
40	40	46.70	0.00	1.93	1233.71	0	815.48	2	-394.79	2	-342.97	2.35	-502.12
40	41	48.15	0.00	1.93	1230.90	0	813.62	2	-393.89	2	-342.19	2.35	-500.98
41	41	48.15	0.00	1.93	1230.90	0	813.62	2	-393.89	2	-342.19	2.35	-500.98
41	42	49.60	0.00	1.93	1228.09	0	811.77	2	-392.99	2	-341.41	2.35	-499.83
42	42	49.60	0.00	1.93	1228.09	0	811.77	2	-392.99	2	-341.41	2.35	-499.83
42	43	51.05	0.00	1.93	1225.29	0	809.92	2	-392.09	2	-340.63	2.35	-498.69
43	43	51.05	0.00	1.93	1225.29	0	809.92	2	-392.09	2	-340.63	2.35	-498.69
43	44	51.50	0.00	1.93	1224.42	0	809.34	2	-391.81	2	-340.39	2.35	-498.34
44	44	51.50	0.00	1.93	1224.42	0	809.34	2	-391.81	2	-340.39	2.35	-498.34
44	45	52.50	0.00	1.93	1222.48	0	808.06	2	-391.19	2	-339.85	2.35	-497.55
45	1045	52.50	0.00	-5.30	1222.48	0	808.06	2	-391.19	2	-339.85	2.35	-497.55
45	46	53.50	0.00	-5.30	1227.79	0	811.57	2	-392.89	2	-341.33	2.35	-499.71
46	46	53.50	0.00	-5.30	1227.79	0	811.57	2	-392.89	2	-341.33	2.35	-499.71
46	47	53.95	0.00	-5.30	1230.17	0	813.14	2	-393.65	2	-341.99	2.35	-500.68
47	47	53.95	0.00	-5.30	1230.17	0	813.14	2	-393.65	2	-341.99	2.35	-500.68
47	48	55.40	0.00	-5.30	1237.87	0	818.23	2	-396.12	2	-344.13	2.35	-503.81
48	48	55.40	0.00	-5.30	1237.87	0	818.23	2	-396.12	2	-344.13	2.35	-503.81
8	49	56.85	0.00	-5.30	1245.56	0	823.32	2	-398.58	2	-346.27	2.35	-506.94
49	49	56.85	0.00	-5.30	1245.56	0	823.32	2	-398.58	2	-346.27	2.35	-506.94
9	50	58.30	0.00	-5.30	1253.25	0	828.40	2	-401.04	2	-348.40	2.35	-510.07
50	50	58.30	-0.05	-5.30	1253.19	0	828.34	2	-401.04	2	-348.40	2.35	-510.06
50	51	59.75	-0.05	-5.30	1260.88	0	833.42	2	-403.50	2	-350.54	2.35	-513.19
51	51	59.75	-0.05	-5.30	1260.88	0	853.60	2	-281.19	2	-244.63	2.35	-393.41
51	52	61.20	-0.05	-5.30	1268.57	0	858.81	2	-282.91	2	-246.12	2.35	-395.81
52	52	61.20	0.00	-5.30	1268.65	0	858.88	2	-282.91	2	-246.12	2.35	-395.82
52	53	62.65	0.00	-5.30	1276.34	0	864.08	2	-284.62	2	-247.61	2.35	-398.22
53	53	62.65	0.00	-5.30	1276.34	0	864.08	2	-284.62	2	-247.61	2.35	-398.22
53	54	64.10	0.00	-5.30	1284.03	0	869.29	2	-286.34	2	-249.10	2.35	-400.62
54	54	64.10	0.00	-5.30	1284.03	0	869.29	2	-286.34	2	-249.10	2.35	-400.62
54	55	65.55	0.00	-5.30	1291.72	0	874.49	2	-288.05	2	-250.59	2.35	-403.02
55	55	65.55	0.00	-5.30	1291.72	0	874.49	2	-288.05	2	-250.59	2.35	-403.02
55	56	67.00	0.00	-5.30	1299.41	0	879.70	2	-289.77	2	-252.09	2.35	-405.42
56	56	67.00	0.00	-5.30	1299.41	0	879.70	2	-289.77	2	-252.09	2.35	-405.42
56	57	68.45	0.00	-5.30	1307.11	0	884.91	2	-291.49	2	-253.58	2.35	-407.82
57	57	68.45	0.00	-5.30	1307.11	0	884.91	2	-291.49	2	-253.58	2.35	-407.82
57	58	69.90	0.00	-5.30	1314.80	0	890.12	2	-293.20	2	-255.07	2.35	-410.22
58	58	69.90	0.00	-5.30	1314.80	0	890.12	2	-293.20	2	-255.07	2.35	-410.22
58	59	71.35	0.00	-5.30	1322.49	0	895.33	2	-294.92	2	-256.56	2.35	-412.62
59	59	71.35	0.00	-5.30	1322.49	0	895.33	2	-294.92	2	-256.56	2.35	-412.62
59	60	72.80	0.00	-5.30	1330.18	0	900.53	2	-296.63	2	-258.05	2.35	-415.02
60	60	72.80	0.05	-5.30	1330.09	0	900.49	2	-296.59	2	-258.02	2.35	-414.97
60	61	74.25	0.05	-5.30	1337.78	0	905.69	2	-298.31	2	-259.52	2.35	-417.37
61	61	74.25	0.05	-5.30	1337.78	0	884.29	2	-428.07	2	-371.89	2.35	-544.46
62	62	75.70	0.05	-5.30	1345.47	0	889.37	2	-430.53	2	-374.02	2.35	-547.59
62	62	75.70	0.00	-5.30	1345.53	0	889.40	2	-430.57	2	-374.06	2.35	-547.63
63	63	77.15	0.00	-5.30	1353.22	0	894.48	2	-433.03	2	-376.20	2.35	-550.76
63	64	78.60	0.00	-5.30	1353.22	0	894.48	2	-433.03	2	-376.20	2.35	-550.76
64	64	78.60	0.00	-5.30	1360.91	0	899.56	2	-435.49	2	-378.33	2.35	-553.89
64	65	80.05	0.00	-5.30	1360.91	0	899.56	2	-435.49	2	-378.33	2.35	-553.89
65	65	80.05	0.00	-5.30	1368.60	0	904.64	2	-437.95	2	-380.47	2.35	-557.02
65	66	80.50	0.00	-5.30	1368.60	0	904.64	2	-437.95	2	-380.47	2.35	-557.02
66	66	80.50	0.00	-5.30	1370.99	0	906.22	2	-438.72	2	-381.14	2.35	-557.99
66	67	81.50	0.00	-5.30	1370.99	0	906.22	2	-438.72	2	-381.14	2.35	-557.99
67	1067	81.50	0.00	-5.30	1376.29	0	909.73	2	-440.41	2	-382.61	2.35	-560.15
67	68	82.50	0.00	-5.32	1376.29	0	909.73	2	-440.41	2	-382.61	2.35	-560.15
68	68	82.50	0.00	-5.32	1381.61	0	913.24	2	-442.12	2	-384.09	2.35	-562.32
68	69	83.08	0.00	-5.32	1381.61	0	913.24	2	-442.12	2	-384.09	2.35	-562.32
69	69	83.08	0.00	-5.32	1384.67	0	915.27	2	-443.09	2	-384.94	2.35	-563.56
69	70	84.65	0.00	-5.32	1384.67	0	915.27	2	-443.09	2	-384.94	2.35	-563.56
70	70	84.65	0.00	-5.32	1393.06	0	920.81	2	-445.78	2	-387.27	2.35	-566.98
70	71	86.23	0.00	-5.32	1393.06	0	920.81	2	-445.78	2	-387.27	2.35	-566.98
71	71	86.23	0.00	-5.32	1401.44	0	926.35	2	-448.46	2	-389.60	2.35	-570.39
71	72	87.80	0.00	-5.32	1401.44	0	926.35	2	-448.46	2	-389.60	2.35	-570.39
72	72	87.80	-0.05	-5.32	1409.82	0	931.89	2	-451.14	2	-391.93	2.35	-573.80
72	73	89.38	-0.05	-5.32	1409.76	0	931.83	2	-451.14	2	-391.93	2.35	-573.79
73	73	89.38	-0.05	-5.32	1418.14	0	937.37	2	-453.82	2	-394.26	2.35	-577.20
73	74	90.95	-0.05	-5.32	1418.14	0	960.06	2	-316.26	2	-275.13	2.35	-442.47
74	74	90.95	0.00	-5.32	1426.52	0	965.74	2	-318.13	2	-276.76	2.35	-445.09
74	75	92.53	0.00	-5.32	1426.61	0	965.81	2	-318.13	2	-276.76	2.35	-445.10
75	75	92.53	0.00	-5.32	1434.99	0	971.49	2	-320.00	2	-278.39	2.35	-447.72
75	76	94.10	0.00	-5.32	1434.99	0	971.49	2	-320.00	2	-278.39	2.35	-447.72
76	76	94.10	0.00	-5.32	1443.37	0	977.16	2	-321.87	2	-280.01	2.35	-450.33
76	77	95.68	0.00	-5.32	1443.37	0	977.16	2	-321.87	2	-280.01	2.35	-450.33
					1451.76	0	982.84	2	-323.74	2	-281.64	2.35	-452.95

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase8.HIP.To.Tinf
PretensadoHiperestático(t=0)). Tensiones a tiempo Tinf
1)fase8 HIP To
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	-5.32	1451.76	0	982.84	2	-323.74	2	-281.64	2.35	-452.95
77	78	97.25	0.00	-5.32	1460.14	0	988.51	2	-325.61	2	-283.27	2.35	-455.56
78	78	97.25	0.00	-5.32	1460.14	0	988.51	2	-325.61	2	-283.27	2.35	-455.56
78	79	98.83	0.00	-5.32	1468.52	0	994.19	2	-327.48	2	-284.89	2.35	-458.18
79	79	98.83	0.00	-5.32	1468.52	0	994.19	2	-327.48	2	-284.89	2.35	-458.18
79	80	100.40	0.00	-5.32	1476.90	0	999.86	2	-329.35	2	-286.52	2.35	-460.79
80	80	100.40	0.00	-5.32	1476.90	0	999.86	2	-329.35	2	-286.52	2.35	-460.79
80	81	101.98	0.00	-5.32	1485.28	0	1005.53	2	-331.22	2	-288.14	2.35	-463.41
81	81	101.98	0.00	-5.32	1485.28	0	1005.53	2	-331.22	2	-288.14	2.35	-463.41
81	82	103.55	0.00	-5.32	1493.66	0	1011.21	2	-333.09	2	-289.77	2.35	-466.02
82	82	103.55	0.05	-5.32	1493.57	0	1011.16	2	-333.05	2	-289.74	2.35	-465.98
82	83	105.13	0.05	-5.32	1501.96	0	1016.84	2	-334.92	2	-291.37	2.35	-468.60
83	83	105.13	0.05	-5.32	1501.96	0	992.81	2	-480.61	2	-417.53	2.35	-611.28
83	84	106.70	0.05	-5.32	1510.34	0	998.35	2	-483.29	2	-419.86	2.35	-614.69
84	84	106.70	0.00	-5.32	1510.40	0	998.37	2	-483.33	2	-419.89	2.35	-614.73
84	85	108.28	0.00	-5.32	1518.78	0	1003.91	2	-486.01	2	-422.22	2.35	-618.14
85	85	108.28	0.00	-5.32	1518.78	0	1003.91	2	-486.01	2	-422.22	2.35	-618.14
85	86	109.85	0.00	-5.32	1527.16	0	1009.45	2	-488.69	2	-424.55	2.35	-621.55
86	86	109.85	0.00	-5.32	1527.16	0	1009.45	2	-488.69	2	-424.55	2.35	-621.55
86	87	111.43	0.00	-5.32	1535.54	0	1014.99	2	-491.37	2	-426.88	2.35	-624.96
87	87	111.43	0.00	-5.32	1535.54	0	1014.99	2	-491.37	2	-426.88	2.35	-624.96
87	88	112.00	0.00	-5.32	1538.60	0	1017.02	2	-492.35	2	-427.73	2.35	-626.21
88	88	112.00	0.00	-5.32	1538.60	0	1017.02	2	-492.35	2	-427.73	2.35	-626.21
88	89	113.00	0.00	-5.32	1543.92	0	1020.53	2	-494.05	2	-429.21	2.35	-628.38
89	1089	113.00	0.00	4.56	1543.92	0	1020.53	2	-494.05	2	-429.21	2.35	-628.38
89	90	114.00	0.00	4.56	1539.36	0	1017.52	2	-492.60	2	-427.94	2.35	-626.52
90	90	114.00	0.00	4.56	1539.36	0	1017.52	2	-492.60	2	-427.94	2.35	-626.52
90	91	114.58	0.00	4.56	1536.74	0	1015.79	2	-491.76	2	-427.21	2.35	-625.45
91	91	114.58	0.00	4.56	1536.74	0	1015.79	2	-491.76	2	-427.21	2.35	-625.45
91	92	116.15	0.00	4.56	1529.55	0	1011.03	2	-489.46	2	-425.21	2.35	-622.53
92	92	116.15	0.00	4.56	1529.55	0	1011.03	2	-489.46	2	-425.21	2.35	-622.53
92	93	117.73	0.00	4.56	1522.37	0	1006.29	2	-487.16	2	-423.22	2.35	-619.60
93	93	117.73	0.00	4.56	1522.37	0	1006.29	2	-487.16	2	-423.22	2.35	-619.60
93	94	119.30	0.00	4.56	1515.18	0	1001.53	2	-484.86	2	-421.22	2.35	-616.68
94	94	119.30	0.04	4.56	1515.12	0	1001.51	2	-484.82	2	-421.19	2.35	-616.64
94	95	120.88	0.04	4.56	1507.94	0	996.76	2	-482.53	2	-419.19	2.35	-613.72
95	95	120.88	0.04	4.56	1507.94	0	1020.89	2	-336.26	2	-292.53	2.35	-470.47
95	96	122.45	0.04	4.56	1500.75	0	1016.02	2	-334.65	2	-291.13	2.35	-468.22
96	96	122.45	0.00	4.56	1500.84	0	1016.07	2	-334.69	2	-291.16	2.35	-468.26
96	97	124.03	0.00	4.56	1493.66	0	1011.21	2	-333.09	2	-289.77	2.35	-466.02
97	97	124.03	0.00	4.56	1493.66	0	1011.21	2	-333.09	2	-289.77	2.35	-466.02
97	98	125.60	0.00	4.56	1486.47	0	1006.34	2	-331.48	2	-288.38	2.35	-463.78
98	98	125.60	0.00	4.56	1486.47	0	1006.34	2	-331.48	2	-288.38	2.35	-463.78
98	99	127.18	0.00	4.56	1479.29	0	1001.48	2	-329.88	2	-286.98	2.35	-461.54
99	99	127.18	0.00	4.56	1479.29	0	1001.48	2	-329.88	2	-286.98	2.35	-461.54
99	100	128.75	0.00	4.56	1472.10	0	996.61	2	-328.28	2	-285.59	2.35	-459.30
100	100	128.75	0.00	4.56	1472.10	0	996.61	2	-328.28	2	-285.59	2.35	-459.30
100	101	130.33	0.00	4.56	1464.92	0	991.75	2	-326.68	2	-284.19	2.35	-457.06
101	101	130.33	0.00	4.56	1464.92	0	991.75	2	-326.68	2	-284.19	2.35	-457.06
101	102	131.90	0.00	4.56	1457.73	0	986.88	2	-325.07	2	-282.80	2.35	-454.81
102	102	131.90	0.00	4.56	1457.73	0	986.88	2	-325.07	2	-282.80	2.35	-454.81
102	103	133.48	0.00	4.56	1450.55	0	982.02	2	-323.47	2	-281.41	2.35	-452.57
103	103	133.48	0.00	4.56	1450.55	0	982.02	2	-323.47	2	-281.41	2.35	-452.57
103	104	135.05	0.00	4.56	1443.36	0	977.15	2	-321.87	2	-280.01	2.35	-450.33
104	104	135.05	-0.04	4.56	1443.27	0	977.08	2	-321.86	2	-280.01	2.35	-450.31
104	105	136.63	-0.04	4.56	1436.09	0	972.22	2	-320.26	2	-278.61	2.35	-448.07
105	105	136.63	-0.04	4.56	1436.09	0	949.24	2	-459.56	2	-399.25	2.35	-584.50
105	106	138.20	-0.04	4.56	1428.90	0	944.49	2	-457.26	2	-397.25	2.35	-581.58
106	106	138.20	0.00	4.56	1428.96	0	944.54	2	-457.27	2	-397.25	2.35	-581.59
106	107	139.78	0.00	4.56	1421.77	0	939.79	2	-454.97	2	-395.25	2.35	-578.66
107	107	139.78	0.00	4.56	1421.77	0	939.79	2	-454.97	2	-395.25	2.35	-578.66
107	108	141.35	0.00	4.56	1414.59	0	935.04	2	-452.67	2	-393.26	2.35	-575.74
108	108	141.35	0.00	4.56	1414.59	0	935.04	2	-452.67	2	-393.26	2.35	-575.74
108	109	142.93	0.00	4.56	1407.40	0	930.29	2	-450.37	2	-391.26	2.35	-572.81
109	109	142.93	0.00	4.56	1407.40	0	930.29	2	-450.37	2	-391.26	2.35	-572.81
109	110	143.50	0.00	4.56	1404.78	0	928.56	2	-449.53	2	-390.53	2.35	-571.75
110	110	143.50	0.00	4.56	1404.78	0	928.56	2	-449.53	2	-390.53	2.35	-571.75
110	111	144.50	0.00	4.56	1400.22	0	925.55	2	-448.07	2	-389.26	2.35	-569.89
111	1111	144.50	0.00	59.58	1400.22	0	925.55	2	-448.07	2	-389.26	2.35	-569.89
111	112	145.50	0.00	59.58	1340.63	0	886.16	2	-429.00	2	-372.70	2.35	-545.64
112	112	145.50	0.00	59.58	1340.63	0	886.16	2	-429.00	2	-372.70	2.35	-545.64
112	113	145.68	0.00	59.58	1330.21	0	879.27	2	-425.67	2	-369.80	2.35	-541.40
113	113	145.68	0.00	59.58	1330.21	0	879.27	2	-425.67	2	-369.80	2.35	-541.40
113	114	146.85	0.00	59.58	1260.20	0	832.99	2	-403.26	2	-350.34	2.35	-512.90
114	114	146.85	0.00	59.58	1260.20	0	832.99	2	-403.26	2	-350.34	2.35	-512.90
114	115	148.03	0.00	59.58	1190.19	0	786.72	2	-380.86	2	-330.87	2.35	-483.61

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase8.HIP.To.Tinf

PretensadoHiperestático(t=0)). Tensiones a tiempo Tinf

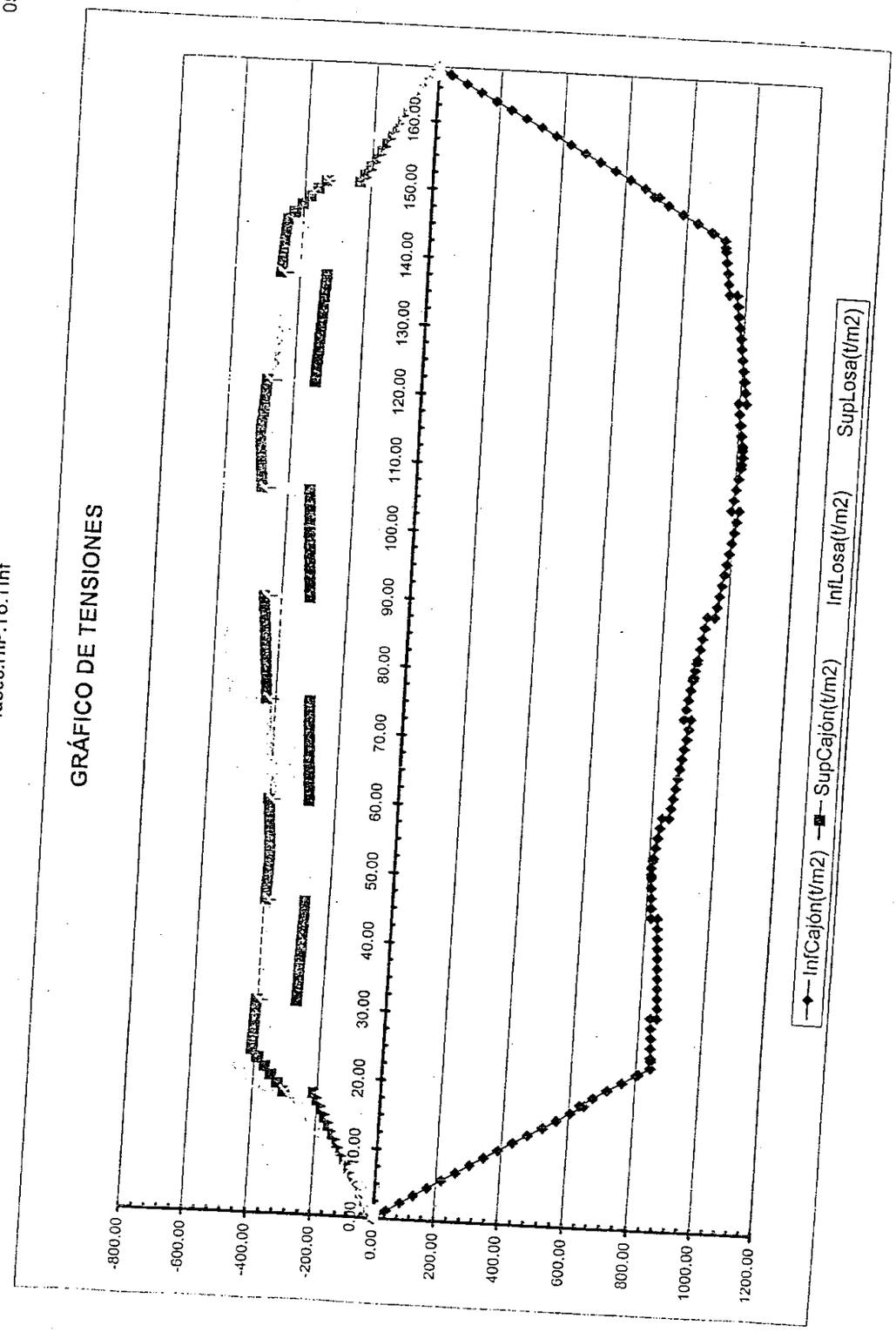
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Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	59.58	1190.19	0	785.72	2	-380.86	2	-330.87	2.35	-484.41
115	116	149.20	0.00	59.58	1120.18	0	740.44	2	-358.46	2	-311.41	2.35	-455.91
116	116	149.20	0.71	59.58	1120.09	0	740.64	2	-358.17	2	-311.16	2.35	-455.65
116	117	150.38	0.71	59.58	1050.08	0	694.36	2	-335.76	2	-291.70	2.35	-427.16
117	117	150.38	0.71	59.58	1050.08	0	711.14	2	-233.93	2	-203.51	2.35	-327.42
117	118	151.55	0.71	59.58	980.07	0	663.74	2	-218.32	2	-189.93	2.35	-305.58
118	118	151.55	0.00	59.58	980.15	0	663.56	2	-218.57	2	-190.15	2.35	-305.81
118	119	152.73	0.00	59.58	910.14	0	616.16	2	-202.96	2	-176.57	2.35	-283.96
119	119	152.73	0.00	59.58	910.14	0	616.16	2	-202.96	2	-176.57	2.35	-283.96
119	120	153.90	0.00	59.58	840.13	0	568.77	2	-187.35	2	-162.99	2.35	-262.12
120	120	153.90	0.00	59.58	840.13	0	568.77	2	-187.35	2	-162.99	2.35	-262.12
120	121	155.08	0.00	59.58	770.12	0	521.37	2	-171.74	2	-149.40	2.35	-240.28
121	121	155.08	0.00	59.58	770.12	0	521.37	2	-171.74	2	-149.40	2.35	-240.28
121	122	156.25	0.00	59.58	700.11	0	473.97	2	-156.12	2	-135.82	2.35	-218.43
122	122	156.25	0.00	59.58	700.11	0	473.97	2	-156.12	2	-135.82	2.35	-218.43
122	123	157.43	0.00	59.58	630.10	0	426.58	2	-140.51	2	-122.24	2.35	-196.59
123	123	157.43	0.00	59.58	630.10	0	426.58	2	-140.51	2	-122.24	2.35	-196.59
123	124	158.60	0.00	59.58	560.09	0	379.18	2	-124.90	2	-108.66	2.35	-174.75
124	124	158.60	0.00	59.58	560.09	0	379.18	2	-124.90	2	-108.66	2.35	-174.75
124	125	159.78	0.00	59.58	490.08	0	331.78	2	-109.29	2	-95.08	2.35	-152.91
25	125	159.78	0.00	59.58	490.08	0	331.78	2	-109.29	2	-95.08	2.35	-152.91
125	126	160.95	0.00	59.58	420.07	0	284.39	2	-93.68	2	-81.49	2.35	-131.06
126	126	160.95	0.00	59.58	420.07	0	284.39	2	-93.68	2	-81.49	2.35	-131.06
126	127	162.13	0.00	59.58	350.06	0	236.99	2	-78.06	2	-67.91	2.35	-109.22
127	127	162.13	0.00	59.58	350.06	0	236.99	2	-78.06	2	-67.91	2.35	-109.22
127	128	163.30	0.00	59.58	280.04	0	189.59	2	-62.45	2	-54.33	2.35	-87.37
128	128	163.30	0.00	59.58	280.04	0	189.59	2	-62.45	2	-54.33	2.35	-87.37
128	129	164.48	0.00	59.58	210.03	0	142.19	2	-46.84	2	-40.75	2.35	-65.53
129	129	164.48	0.00	59.58	210.03	0	142.19	2	-46.84	2	-40.75	2.35	-65.53
129	130	165.65	0.00	59.58	140.02	0	94.79	2	-31.22	2	-27.16	2.35	-43.69
130	130	165.65	0.00	59.58	140.02	0	94.79	2	-31.22	2	-27.16	2.35	-43.69
130	131	166.83	0.00	59.58	70.01	0	47.40	2	-15.61	2	-13.58	2.35	-21.84
131	131	166.83	0.00	59.58	70.01	0	47.40	2	-15.61	2	-13.58	2.35	-21.84
131	132	167.00	0.00	59.58	59.58	0	40.34	2	-13.29	2	-11.56	2.35	-18.59
132	132	167.00	0.00	59.58	59.58	0	40.34	2	-13.29	2	-11.56	2.35	-18.59
132	133	168.00	0.00	59.58	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

Programa DINTEL IDEAM S.A.
fase8.HIP.To.Tinf

GRÁFICO DE TENSIONES



hsim_tinf.xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase9.HIP.To.Tinf
PretensadoHiperestático(t=0)). Tensiones a tiempo Tinf
.]fase9.HIP.To
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-1.57	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-1.57	1.57	0	1.06	2	-0.35	2	-0.30	2.35	-0.49
2	2	1.00	0.00	-1.57	1.57	0	1.06	2	-0.35	2	-0.30	2.35	-0.49
2	3	1.18	0.00	-1.57	1.84	0	1.25	2	-0.41	2	-0.36	2.35	-0.57
3	3	1.18	0.00	-1.57	1.84	0	1.25	2	-0.41	2	-0.36	2.35	-0.57
3	4	2.35	0.00	-1.57	3.68	0	2.49	2	-0.82	2	-0.71	2.35	-1.15
4	4	2.35	0.00	-1.57	3.68	0	2.49	2	-0.82	2	-0.71	2.35	-1.15
4	5	3.53	0.00	-1.57	5.52	0	3.74	2	-1.23	2	-1.07	2.35	-1.72
5	5	3.53	0.00	-1.57	5.52	0	3.74	2	-1.23	2	-1.07	2.35	-1.72
5	6	4.70	0.00	-1.57	7.36	0	4.98	2	-1.64	2	-1.43	2.35	-2.30
6	6	4.70	0.00	-1.57	7.36	0	4.98	2	-1.64	2	-1.43	2.35	-2.30
6	7	5.88	0.00	-1.57	9.20	0	6.23	2	-2.05	2	-1.78	2.35	-2.87
7	7	5.88	0.00	-1.57	9.20	0	6.23	2	-2.05	2	-1.78	2.35	-2.87
7	8	7.05	0.00	-1.57	11.04	0	7.47	2	-2.46	2	-2.14	2.35	-3.44
8	8	7.05	0.00	-1.57	11.04	0	7.47	2	-2.46	2	-2.14	2.35	-3.44
8	9	8.23	0.00	-1.57	12.88	0	8.72	2	-2.87	2	-2.50	2.35	-4.02
9	9	8.23	0.00	-1.57	12.88	0	8.72	2	-2.87	2	-2.50	2.35	-4.02
9	10	9.40	0.00	-1.57	14.72	0	9.97	2	-3.28	2	-2.86	2.35	-4.59
10	10	9.40	0.00	-1.57	14.72	0	9.97	2	-3.28	2	-2.86	2.35	-4.59
10	11	10.58	0.00	-1.57	16.56	0	11.21	2	-3.69	2	-3.21	2.35	-5.17
11	11	10.58	0.00	-1.57	16.56	0	11.21	2	-3.69	2	-3.21	2.35	-5.17
11	12	11.75	0.00	-1.57	18.40	0	12.46	2	-4.10	2	-3.57	2.35	-5.74
12	12	11.75	0.00	-1.57	18.40	0	12.46	2	-4.10	2	-3.57	2.35	-5.74
12	13	12.93	0.00	-1.57	20.24	0	13.70	2	-4.51	2	-3.93	2.35	-6.31
13	13	12.93	0.00	-1.57	20.24	0	13.70	2	-4.51	2	-3.93	2.35	-6.31
13	14	14.10	0.00	-1.57	22.08	0	14.95	2	-4.92	2	-4.28	2.35	-6.89
14	14	14.10	0.00	-1.57	22.08	0	14.95	2	-4.92	2	-4.28	2.35	-6.89
14	15	15.28	0.00	-1.57	23.92	0	16.19	2	-5.33	2	-4.64	2.35	-7.46
15	15	15.28	0.00	-1.57	23.92	0	16.19	2	-5.33	2	-4.64	2.35	-7.46
15	16	16.45	0.00	-1.57	25.76	0	17.44	2	-5.74	2	-5.00	2.35	-8.04
16	16	16.45	0.00	-1.57	25.76	0	17.44	2	-5.74	2	-5.00	2.35	-8.04
16	17	17.63	0.00	-1.57	27.60	0	18.69	2	-6.15	2	-5.35	2.35	-8.61
17	17	17.63	0.00	-1.57	27.60	0	18.24	2	-8.83	2	-7.67	2.35	-11.23
17	18	18.80	0.00	-1.57	29.44	0	19.46	2	-9.42	2	-8.18	2.35	-11.98
18	18	18.80	0.00	-1.57	29.44	0	19.46	2	-9.42	2	-8.18	2.35	-11.98
18	19	19.98	0.00	-1.57	31.28	0	20.68	2	-10.01	2	-8.70	2.35	-12.73
19	19	19.98	0.00	-1.57	31.28	0	20.68	2	-10.01	2	-8.70	2.35	-12.73
19	20	21.15	0.00	-1.57	33.12	0	21.89	2	-10.60	2	-9.21	2.35	-13.48
20	20	21.15	0.00	-1.57	33.12	0	21.89	2	-10.60	2	-9.21	2.35	-13.48
20	21	22.33	0.00	-1.57	34.96	0	23.11	2	-11.19	2	-9.72	2.35	-14.23
21	21	22.33	0.00	-1.57	34.96	0	23.11	2	-11.19	2	-9.72	2.35	-14.23
21	22	22.50	0.00	-1.57	35.23	0	23.29	2	-11.27	2	-9.79	2.35	-14.34
22	22	22.50	0.00	-1.57	35.23	0	23.29	2	-11.27	2	-9.79	2.35	-14.34
22	23	23.50	0.00	-1.57	36.80	0	24.32	2	-11.78	2	-10.23	2.35	-14.98
23	1023	23.50	0.00	0.32	36.80	0	24.32	2	-11.78	2	-10.23	2.35	-14.98
	24	24.50	0.00	0.32	36.48	0	24.11	2	-11.67	2	-10.14	2.35	-14.85
1	24	24.50	0.00	0.32	36.48	0	24.11	2	-11.67	2	-10.14	2.35	-14.85
4	25	24.95	0.00	0.32	36.33	0	24.01	2	-11.63	2	-10.10	2.35	-14.79
25	25	24.95	0.00	0.32	36.33	0	24.01	2	-11.63	2	-10.10	2.35	-14.79
25	26	26.40	0.00	0.32	35.86	0	23.70	2	-11.48	2	-9.97	2.35	-14.60
26	26	26.40	0.00	0.32	35.86	0	23.70	2	-11.48	2	-9.97	2.35	-14.60
26	27	27.85	0.00	0.32	35.39	0	23.39	2	-11.32	2	-9.84	2.35	-14.40
27	27	27.85	0.00	0.32	35.39	0	23.39	2	-11.32	2	-9.84	2.35	-14.40
27	28	29.30	0.00	0.32	34.93	0	23.09	2	-11.18	2	-9.71	2.35	-14.22
28	28	29.30	0.00	0.32	34.93	0	23.09	2	-11.18	2	-9.71	2.35	-14.22
28	29	30.75	0.00	0.32	34.46	0	22.78	2	-11.03	2	-9.58	2.35	-14.03
29	29	30.75	0.00	0.32	34.46	0	23.33	2	-7.68	2	-6.69	2.35	-10.75
29	30	32.20	0.00	0.32	33.99	0	23.01	2	-7.58	2	-6.59	2.35	-10.60
30	30	32.20	0.00	0.32	33.99	0	23.01	2	-7.58	2	-6.59	2.35	-10.60
30	31	33.65	0.00	0.32	33.52	0	22.69	2	-7.47	2	-6.50	2.35	-10.46
31	31	33.65	0.00	0.32	33.52	0	22.69	2	-7.47	2	-6.50	2.35	-10.46
31	32	35.10	0.00	0.32	33.05	0	22.37	2	-7.37	2	-6.41	2.35	-10.31
32	32	35.10	0.00	0.32	33.05	0	22.37	2	-7.37	2	-6.41	2.35	-10.31
32	33	36.55	0.00	0.32	32.58	0	22.06	2	-7.27	2	-6.32	2.35	-10.16
33	33	36.55	0.00	0.32	32.58	0	22.06	2	-7.27	2	-6.32	2.35	-10.16
33	34	38.00	0.00	0.32	32.11	0	21.74	2	-7.16	2	-6.23	2.35	-10.02
34	34	38.00	0.00	0.32	32.11	0	21.74	2	-7.16	2	-6.23	2.35	-10.02
34	35	39.45	0.00	0.32	31.64	0	21.42	2	-7.06	2	-6.14	2.35	-9.87
35	35	39.45	0.00	0.32	31.64	0	21.42	2	-7.06	2	-6.14	2.35	-9.87
35	36	40.90	0.00	0.32	31.18	0	21.11	2	-6.95	2	-6.05	2.35	-9.73
36	36	40.90	0.00	0.32	31.18	0	21.11	2	-6.95	2	-6.05	2.35	-9.73
36	37	42.35	0.00	0.32	30.71	0	20.79	2	-6.85	2	-5.96	2.35	-9.58
37	37	42.35	0.00	0.32	30.71	0	20.79	2	-6.85	2	-5.96	2.35	-9.58
37	38	43.80	0.00	0.32	30.24	0	20.47	2	-6.74	2	-5.87	2.35	-9.43
38	38	43.80	0.00	0.32	30.24	0	20.47	2	-6.74	2	-5.87	2.35	-9.43
38	39	45.25	0.00	0.32	29.77	0	20.15	2	-6.64	2	-5.78	2.35	-9.29

CÁLCULO TENSIONAL
ipótesis de cálculo:
ase9.HIP.To.Tinf
PretensadoHiperestático(t=0)). Tensiones a tiempo Tinf
]fase9.HIP.To
ef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	0.00	0.32	29.77	0	19.68	2	-9.53	2	-8.28	2.35	-12.12
39	40	46.70	0.00	0.32	29.30	0	19.37	2	-9.38	2	-8.15	2.35	-11.93
40	40	46.70	0.00	0.32	29.30	0	19.37	2	-9.38	2	-8.15	2.35	-11.93
40	41	48.15	0.00	0.32	28.83	0	19.06	2	-9.23	2	-8.01	2.35	-11.73
41	41	48.15	0.00	0.32	28.83	0	19.06	2	-9.23	2	-8.01	2.35	-11.73
41	42	49.60	0.00	0.32	28.36	0	18.75	2	-9.08	2	-7.88	2.35	-11.54
42	42	49.60	0.00	0.32	28.36	0	18.75	2	-9.08	2	-7.88	2.35	-11.54
42	43	51.05	0.00	0.32	27.90	0	18.44	2	-8.93	2	-7.76	2.35	-11.36
43	43	51.05	0.00	0.32	27.90	0	18.44	2	-8.93	2	-7.76	2.35	-11.36
43	44	51.50	0.00	0.32	27.75	0	18.34	2	-8.88	2	-7.71	2.35	-11.29
44	44	51.50	0.00	0.32	27.75	0	18.34	2	-8.88	2	-7.71	2.35	-11.29
44	45	52.50	0.00	0.32	27.43	0	18.13	2	-8.78	2	-7.63	2.35	-11.16
45	1045	52.50	0.00	-0.07	27.43	0	18.13	2	-8.78	2	-7.63	2.35	-11.16
45	46	53.50	0.00	-0.07	27.50	0	18.18	2	-8.80	2	-7.65	2.35	-11.19
46	46	53.50	0.00	-0.07	27.50	0	18.18	2	-8.80	2	-7.65	2.35	-11.19
46	47	53.95	0.00	-0.07	27.53	0	18.20	2	-8.81	2	-7.65	2.35	-11.20
47	47	53.95	0.00	-0.07	27.53	0	18.20	2	-8.81	2	-7.65	2.35	-11.20
47	48	55.40	0.00	-0.07	27.64	0	18.27	2	-8.84	2	-7.68	2.35	-11.25
48	48	55.40	0.00	-0.07	27.64	0	18.27	2	-8.84	2	-7.68	2.35	-11.25
48	49	56.85	0.00	-0.07	27.74	0	18.34	2	-8.88	2	-7.71	2.35	-11.29
49	49	56.85	0.00	-0.07	27.74	0	18.34	2	-8.88	2	-7.71	2.35	-11.29
49	50	58.30	0.00	-0.07	27.85	0	18.41	2	-8.91	2	-7.74	2.35	-11.33
50	50	58.30	0.00	-0.07	27.85	0	18.41	2	-8.91	2	-7.74	2.35	-11.33
50	51	59.75	0.00	-0.07	27.95	0	18.47	2	-8.94	2	-7.77	2.35	-11.38
51	51	59.75	0.00	-0.07	27.95	0	18.92	2	-6.23	2	-5.42	2.35	-8.72
51	52	61.20	0.00	-0.07	28.06	0	19.00	2	-6.26	2	-5.44	2.35	-8.75
52	52	61.20	0.00	-0.07	28.06	0	19.00	2	-6.26	2	-5.44	2.35	-8.75
52	53	62.65	0.00	-0.07	28.16	0	19.06	2	-6.28	2	-5.46	2.35	-8.79
53	53	62.65	0.00	-0.07	28.16	0	19.06	2	-6.28	2	-5.46	2.35	-8.79
53	54	64.10	0.00	-0.07	28.27	0	19.14	2	-6.30	2	-5.48	2.35	-8.82
54	54	64.10	0.00	-0.07	28.27	0	19.14	2	-6.30	2	-5.48	2.35	-8.82
54	55	65.55	0.00	-0.07	28.37	0	19.21	2	-6.33	2	-5.50	2.35	-8.85
55	55	65.55	0.00	-0.07	28.37	0	19.21	2	-6.33	2	-5.50	2.35	-8.85
55	56	67.00	0.00	-0.07	28.48	0	19.28	2	-6.35	2	-5.53	2.35	-8.89
56	56	67.00	0.00	-0.07	28.48	0	19.28	2	-6.35	2	-5.53	2.35	-8.89
56	57	68.45	0.00	-0.07	28.58	0	19.35	2	-6.37	2	-5.54	2.35	-8.92
57	57	68.45	0.00	-0.07	28.58	0	19.35	2	-6.37	2	-5.54	2.35	-8.92
57	58	69.90	0.00	-0.07	28.69	0	19.42	2	-6.40	2	-5.57	2.35	-8.95
58	58	69.90	0.00	-0.07	28.69	0	19.42	2	-6.40	2	-5.57	2.35	-8.95
58	59	71.35	0.00	-0.07	28.79	0	19.49	2	-6.42	2	-5.59	2.35	-8.98
59	59	71.35	0.00	-0.07	28.79	0	19.49	2	-6.42	2	-5.59	2.35	-8.98
59	60	72.80	0.00	-0.07	28.90	0	19.57	2	-6.44	2	-5.61	2.35	-9.02
60	60	72.80	0.00	-0.07	28.90	0	19.57	2	-6.44	2	-5.61	2.35	-9.02
60	61	74.25	0.00	-0.07	29.00	0	19.63	2	-6.47	2	-5.63	2.35	-9.05
61	61	74.25	0.00	-0.07	29.00	0	19.17	2	-9.28	2	-8.06	2.35	-11.80
61	62	75.70	0.00	-0.07	29.11	0	19.24	2	-9.32	2	-8.09	2.35	-11.85
62	62	75.70	0.00	-0.07	29.11	0	19.24	2	-9.32	2	-8.09	2.35	-11.85
62	63	77.15	0.00	-0.07	29.22	0	19.31	2	-9.35	2	-8.12	2.35	-11.89
63	63	77.15	0.00	-0.07	29.22	0	19.31	2	-9.35	2	-8.12	2.35	-11.89
63	64	78.60	0.00	-0.07	29.32	0	19.38	2	-9.38	2	-8.15	2.35	-11.93
64	64	78.60	0.00	-0.07	29.32	0	19.38	2	-9.38	2	-8.15	2.35	-11.93
64	65	80.05	0.00	-0.07	29.43	0	19.45	2	-9.42	2	-8.18	2.35	-11.98
65	65	80.05	0.00	-0.07	29.43	0	19.45	2	-9.42	2	-8.18	2.35	-11.98
65	66	80.50	0.00	-0.07	29.46	0	19.47	2	-9.43	2	-8.19	2.35	-11.99
66	66	80.50	0.00	-0.07	29.46	0	19.47	2	-9.43	2	-8.19	2.35	-11.99
66	67	81.50	0.00	-0.07	29.53	0	19.52	2	-9.45	2	-8.21	2.35	-12.02
67	1067	81.50	0.00	0.10	29.53	0	19.52	2	-9.45	2	-8.21	2.35	-12.02
67	68	82.50	0.00	0.10	29.43	0	19.45	2	-9.42	2	-8.18	2.35	-11.98
68	68	82.50	0.00	0.10	29.43	0	19.45	2	-9.42	2	-8.18	2.35	-11.98
68	69	83.08	0.00	0.10	29.38	0	19.42	2	-9.40	2	-8.17	2.35	-11.96
69	69	83.08	0.00	0.10	29.38	0	19.42	2	-9.40	2	-8.17	2.35	-11.96
69	70	84.65	0.00	0.10	29.23	0	19.32	2	-9.35	2	-8.13	2.35	-11.90
70	70	84.65	0.00	0.10	29.23	0	19.32	2	-9.35	2	-8.13	2.35	-11.90
70	71	86.23	0.00	0.10	29.08	0	19.22	2	-9.31	2	-8.08	2.35	-11.84
71	71	86.23	0.00	0.10	29.08	0	19.22	2	-9.31	2	-8.08	2.35	-11.84
71	72	87.80	0.00	0.10	28.92	0	19.12	2	-9.25	2	-8.04	2.35	-11.77
72	72	87.80	0.00	0.10	28.92	0	19.12	2	-9.25	2	-8.04	2.35	-11.77
72	73	89.38	0.00	0.10	28.77	0	19.02	2	-9.21	2	-8.00	2.35	-11.71
73	73	89.38	0.00	0.10	28.77	0	19.48	2	-6.42	2	-5.58	2.35	-8.98
73	74	90.95	0.00	0.10	28.62	0	19.38	2	-6.38	2	-5.55	2.35	-8.93
74	74	90.95	0.00	0.10	28.62	0	19.38	2	-6.38	2	-5.55	2.35	-8.93
74	75	92.53	0.00	0.10	28.47	0	19.27	2	-6.35	2	-5.52	2.35	-8.88
75	75	92.53	0.00	0.10	28.47	0	19.27	2	-6.35	2	-5.52	2.35	-8.88
75	76	94.10	0.00	0.10	28.32	0	19.17	2	-6.32	2	-5.49	2.35	-8.84
76	76	94.10	0.00	0.10	28.32	0	19.17	2	-6.32	2	-5.49	2.35	-8.84
76	77	95.68	0.00	0.10	28.17	0	19.07	2	-6.28	2	-5.46	2.35	-8.79

CÁLCULO TENSIONAL

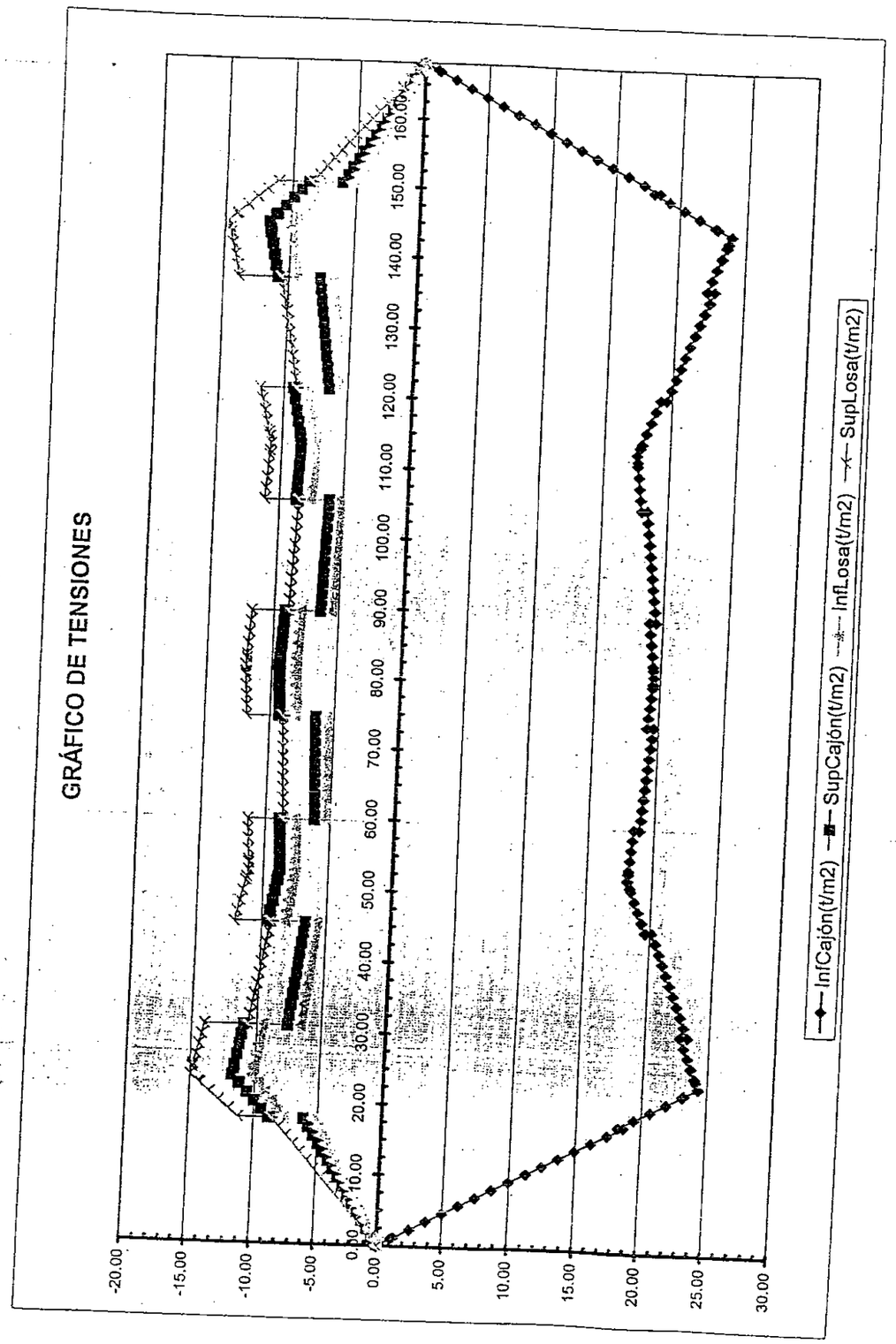
Hipótesis de cálculo:
fase9.HIP.To.Tinf
TensadoHiperestático(t=0)). Tensiones a tiempo Tinf
1: 1)fase9.HIP.To
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	0.10	28.17	0	19.07	2	-6.28	2	-5.46	2.35	-8.79
77	78	97.25	0.00	0.10	28.01	0	18.96	2	-6.25	2	-5.43	2.35	-8.74
78	78	97.25	0.00	0.10	28.01	0	18.96	2	-6.25	2	-5.43	2.35	-8.74
78	79	98.83	0.00	0.10	27.86	0	18.86	2	-6.21	2	-5.40	2.35	-8.69
79	79	98.83	0.00	0.10	27.86	0	18.86	2	-6.21	2	-5.40	2.35	-8.69
79	80	100.40	0.00	0.10	27.71	0	18.76	2	-6.18	2	-5.38	2.35	-8.65
80	80	100.40	0.00	0.10	27.71	0	18.76	2	-6.18	2	-5.38	2.35	-8.65
80	81	101.98	0.00	0.10	27.56	0	18.66	2	-6.15	2	-5.35	2.35	-8.60
81	81	101.98	0.00	0.10	27.56	0	18.66	2	-6.15	2	-5.35	2.35	-8.60
81	82	103.55	0.00	0.10	27.41	0	18.56	2	-6.11	2	-5.32	2.35	-8.55
82	82	103.55	0.00	0.10	27.41	0	18.56	2	-6.11	2	-5.32	2.35	-8.55
82	83	105.13	0.00	0.10	27.26	0	18.46	2	-6.08	2	-5.29	2.35	-8.51
83	83	105.13	0.00	0.10	27.26	0	18.02	2	-8.72	2	-7.58	2.35	-11.09
83	84	106.70	0.00	0.10	27.11	0	17.92	2	-8.68	2	-7.54	2.35	-11.03
84	84	106.70	0.00	0.10	27.11	0	17.92	2	-8.68	2	-7.54	2.35	-11.03
84	85	108.28	0.00	0.10	26.95	0	17.81	2	-8.62	2	-7.49	2.35	-10.97
85	85	108.28	0.00	0.10	26.95	0	17.81	2	-8.62	2	-7.49	2.35	-10.97
85	86	109.85	0.00	0.10	26.80	0	17.71	2	-8.58	2	-7.45	2.35	-10.91
86	86	109.85	0.00	0.10	26.80	0	17.71	2	-8.58	2	-7.45	2.35	-10.91
7	87	111.43	0.00	0.10	26.65	0	17.62	2	-8.53	2	-7.41	2.35	-10.85
7	87	111.43	0.00	0.10	26.65	0	17.62	2	-8.53	2	-7.41	2.35	-10.85
88	88	112.00	0.00	0.10	26.60	0	17.58	2	-8.51	2	-7.39	2.35	-10.83
88	88	112.00	0.00	0.10	26.60	0	17.58	2	-8.51	2	-7.39	2.35	-10.83
88	89	113.00	0.00	0.10	26.50	0	17.52	2	-8.48	2	-7.37	2.35	-10.79
89	1089	113.00	0.00	-0.31	26.50	0	17.52	2	-8.48	2	-7.37	2.35	-10.79
89	90	114.00	0.00	-0.31	26.81	0	17.72	2	-8.58	2	-7.45	2.35	-10.91
90	90	114.00	0.00	-0.31	26.81	0	17.72	2	-8.58	2	-7.45	2.35	-10.91
90	91	114.58	0.00	-0.31	26.99	0	17.84	2	-8.64	2	-7.50	2.35	-10.98
91	91	114.58	0.00	-0.31	26.99	0	17.84	2	-8.64	2	-7.50	2.35	-10.98
91	92	116.15	0.00	-0.31	27.47	0	18.16	2	-8.79	2	-7.64	2.35	-11.18
92	92	116.15	0.00	-0.31	27.47	0	18.16	2	-8.79	2	-7.64	2.35	-11.18
92	93	117.73	0.00	-0.31	27.96	0	18.48	2	-8.95	2	-7.77	2.35	-11.38
93	93	117.73	0.00	-0.31	27.96	0	18.48	2	-8.95	2	-7.77	2.35	-11.38
93	94	119.30	0.00	-0.31	28.45	0	18.81	2	-9.10	2	-7.91	2.35	-11.58
94	94	119.30	0.00	-0.31	28.45	0	18.81	2	-9.10	2	-7.91	2.35	-11.58
94	95	120.88	0.00	-0.31	28.94	0	19.13	2	-9.26	2	-8.05	2.35	-11.78
95	95	120.88	0.00	-0.31	28.94	0	19.13	2	-9.26	2	-8.05	2.35	-11.78
95	96	122.45	0.00	-0.31	29.42	0	19.59	2	-6.45	2	-5.61	2.35	-9.03
96	96	122.45	0.00	-0.31	29.42	0	19.92	2	-6.56	2	-5.71	2.35	-9.18
96	97	124.03	0.00	-0.31	29.91	0	19.92	2	-6.56	2	-5.71	2.35	-9.18
97	97	124.03	0.00	-0.31	29.91	0	20.25	2	-6.67	2	-5.80	2.35	-9.33
97	98	125.60	0.00	-0.31	30.40	0	20.25	2	-6.67	2	-5.80	2.35	-9.33
98	98	125.60	0.00	-0.31	30.40	0	20.58	2	-6.78	2	-5.90	2.35	-9.48
98	99	127.18	0.00	-0.31	30.88	0	20.58	2	-6.78	2	-5.90	2.35	-9.48
99	99	127.18	0.00	-0.31	30.88	0	20.91	2	-6.89	2	-5.99	2.35	-9.63
100	100	128.75	0.00	-0.31	31.37	0	20.91	2	-6.89	2	-5.99	2.35	-9.63
100	100	128.75	0.00	-0.31	31.37	0	21.24	2	-7.00	2	-6.09	2.35	-9.79
100	101	130.33	0.00	-0.31	31.86	0	21.24	2	-7.00	2	-6.09	2.35	-9.79
101	101	130.33	0.00	-0.31	31.86	0	21.57	2	-7.10	2	-6.18	2.35	-9.94
101	102	131.90	0.00	-0.31	32.35	0	21.57	2	-7.10	2	-6.18	2.35	-9.94
102	102	131.90	0.00	-0.31	32.35	0	21.90	2	-7.21	2	-6.28	2.35	-10.09
102	103	133.48	0.00	-0.31	32.83	0	21.90	2	-7.21	2	-6.28	2.35	-10.09
103	103	133.48	0.00	-0.31	32.83	0	22.23	2	-7.32	2	-6.37	2.35	-10.24
103	104	135.05	0.00	-0.31	33.32	0	22.23	2	-7.32	2	-6.37	2.35	-10.24
104	104	135.05	0.00	-0.31	33.32	0	22.56	2	-7.43	2	-6.46	2.35	-10.40
104	105	136.63	0.00	-0.31	33.81	0	22.56	2	-7.43	2	-6.46	2.35	-10.40
105	105	136.63	0.00	-0.31	33.81	0	22.89	2	-7.54	2	-6.56	2.35	-10.55
105	106	138.20	0.00	-0.31	34.29	0	22.35	2	-10.82	2	-9.40	2.35	-13.76
106	106	138.20	0.00	-0.31	34.29	0	22.67	2	-10.97	2	-9.53	2.35	-13.96
106	107	139.78	0.00	-0.31	34.78	0	22.67	2	-10.97	2	-9.53	2.35	-13.96
107	107	139.78	0.00	-0.31	34.78	0	22.99	2	-11.13	2	-9.67	2.35	-14.16
107	108	141.35	0.00	-0.31	35.27	0	22.99	2	-11.13	2	-9.67	2.35	-14.16
108	108	141.35	0.00	-0.31	35.27	0	23.31	2	-11.29	2	-9.81	2.35	-14.35
108	109	142.93	0.00	-0.31	35.76	0	23.31	2	-11.29	2	-9.81	2.35	-14.35
109	109	142.93	0.00	-0.31	35.76	0	23.64	2	-11.44	2	-9.94	2.35	-14.55
109	110	143.50	0.00	-0.31	35.93	0	23.64	2	-11.44	2	-9.94	2.35	-14.55
110	110	143.50	0.00	-0.31	35.93	0	23.75	2	-11.50	2	-9.99	2.35	-14.62
110	111	144.50	0.00	-0.31	36.24	0	23.75	2	-11.50	2	-9.99	2.35	-14.62
111	1111	144.50	0.00	1.54	36.24	0	23.95	2	-11.60	2	-10.07	2.35	-14.75
111	112	145.50	0.00	1.54	34.70	0	23.95	2	-11.60	2	-10.07	2.35	-14.75
112	112	145.50	0.00	1.54	34.70	0	22.94	2	-11.10	2	-9.65	2.35	-14.12
12	113	145.68	0.00	1.54	34.43	0	22.94	2	-11.10	2	-9.65	2.35	-14.12
13	113	145.68	0.00	1.54	34.43	0	22.76	2	-11.02	2	-9.57	2.35	-14.01
13	114	146.85	0.00	1.54	32.62	0	22.76	2	-11.02	2	-9.57	2.35	-14.01
14	114	146.85	0.00	1.54	32.62	0	21.56	2	-10.44	2	-9.07	2.35	-13.28
14	115	148.03	0.00	1.54	30.81	0	21.56	2	-10.44	2	-9.07	2.35	-13.28
						0	20.37	2	-9.86	2	-8.57	2.35	-12.54

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase9.HIP.To.Tinf
PretensadoHiperestático(t=0)). Tensiones a tiempo Tinf
1: 1)fase9.HIP.To
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	1.54	30.81	0	20.37	2	-9.86	2	-8.57	2.35	-12.54
115	116	149.20	0.00	1.54	29.00	0	19.17	2	-9.28	2	-8.06	2.35	-11.80
116	116	149.20	0.00	1.54	29.00	0	19.17	2	-9.28	2	-8.06	2.35	-11.80
116	117	150.38	0.00	1.54	27.18	0	17.97	2	-8.70	2	-7.56	2.35	-11.06
117	117	150.38	0.00	1.54	27.18	0	18.40	2	-6.06	2	-5.27	2.35	-8.48
117	118	151.55	0.00	1.54	25.37	0	17.18	2	-5.66	2	-4.92	2.35	-7.92
118	118	151.55	0.00	1.54	25.37	0	17.18	2	-5.66	2	-4.92	2.35	-7.92
118	119	152.73	0.00	1.54	23.56	0	15.95	2	-5.25	2	-4.57	2.35	-7.35
119	119	152.73	0.00	1.54	23.56	0	15.95	2	-5.25	2	-4.57	2.35	-7.35
119	120	153.90	0.00	1.54	21.75	0	14.72	2	-4.85	2	-4.22	2.35	-6.79
120	120	153.90	0.00	1.54	21.75	0	14.72	2	-4.85	2	-4.22	2.35	-6.79
120	121	155.08	0.00	1.54	19.93	0	13.49	2	-4.44	2	-3.87	2.35	-6.22
121	121	155.08	0.00	1.54	19.93	0	13.49	2	-4.44	2	-3.87	2.35	-6.22
121	122	156.25	0.00	1.54	18.12	0	12.27	2	-4.04	2	-3.52	2.35	-5.65
122	122	156.25	0.00	1.54	18.12	0	12.27	2	-4.04	2	-3.52	2.35	-5.65
122	123	157.43	0.00	1.54	16.31	0	11.04	2	-3.64	2	-3.16	2.35	-5.09
123	123	157.43	0.00	1.54	16.31	0	11.04	2	-3.64	2	-3.16	2.35	-5.09
123	124	158.60	0.00	1.54	14.50	0	9.82	2	-3.23	2	-2.81	2.35	-4.52
124	124	158.60	0.00	1.54	14.50	0	9.82	2	-3.23	2	-2.81	2.35	-4.52
124	125	159.78	0.00	1.54	12.69	0	8.59	2	-2.83	2	-2.46	2.35	-3.96
125	125	159.78	0.00	1.54	12.69	0	8.59	2	-2.83	2	-2.46	2.35	-3.96
125	126	160.95	0.00	1.54	10.87	0	7.36	2	-2.42	2	-2.11	2.35	-3.39
126	126	160.95	0.00	1.54	10.87	0	7.36	2	-2.42	2	-2.11	2.35	-3.39
126	127	162.13	0.00	1.54	9.06	0	6.13	2	-2.02	2	-1.76	2.35	-2.83
127	127	162.13	0.00	1.54	9.06	0	6.13	2	-2.02	2	-1.76	2.35	-2.83
127	128	163.30	0.00	1.54	7.25	0	4.91	2	-1.62	2	-1.41	2.35	-2.26
128	128	163.30	0.00	1.54	7.25	0	4.91	2	-1.62	2	-1.41	2.35	-2.26
128	129	164.48	0.00	1.54	5.44	0	3.68	2	-1.21	2	-1.06	2.35	-1.70
129	129	164.48	0.00	1.54	5.44	0	3.68	2	-1.21	2	-1.06	2.35	-1.70
129	130	165.65	0.00	1.54	3.62	0	2.45	2	-0.81	2	-0.70	2.35	-1.13
130	130	165.65	0.00	1.54	3.62	0	2.45	2	-0.81	2	-0.70	2.35	-1.13
130	131	166.83	0.00	1.54	1.81	0	1.23	2	-0.40	2	-0.35	2.35	-0.56
131	131	166.83	0.00	1.54	1.81	0	1.23	2	-0.40	2	-0.35	2.35	-0.56
131	132	167.00	0.00	1.54	1.54	0	1.04	2	-0.34	2	-0.30	2.35	-0.48
132	132	167.00	0.00	1.54	1.54	0	1.04	2	-0.34	2	-0.30	2.35	-0.48
132	133	168.00	0.00	1.54	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



Programa DINTEL IDEAM S.A.
fase9.HIP.To.Tinf

hsim_tinf.xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase9.ISO.To.Tinf
Prefensadolsostático(t=0)). Tensiones a tiempo Tinf
I: t]fase9.ISO.To
Ref. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
2	2	1.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
2	3	1.18	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
3	3	1.18	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
3	4	2.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
4	4	2.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
4	5	3.53	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
5	5	3.53	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
5	6	4.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
6	6	4.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
6	7	5.88	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
7	7	5.88	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
7	8	7.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
8	8	7.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
8	9	8.23	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
9	9	8.23	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
9	10	9.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
10	10	9.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
10	11	10.58	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
11	11	10.58	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
11	12	11.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
12	12	11.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
12	13	12.93	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
13	13	12.93	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
13	14	14.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
14	14	14.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
14	15	15.28	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
15	15	15.28	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
15	16	16.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
16	16	16.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
16	17	17.63	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
17	17	17.63	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
17	18	18.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
18	18	18.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
18	19	19.98	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
19	19	19.98	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
19	20	21.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
20	20	21.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
20	21	22.33	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
21	21	22.33	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
21	22	22.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
22	22	22.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
22	23	23.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
23	1023	23.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
23	24	24.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
24	24	24.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
24	25	24.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
25	25	24.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
25	26	26.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
26	26	26.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
26	27	27.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
27	27	27.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
27	28	29.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
28	28	29.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
28	29	30.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
29	29	30.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
29	30	32.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
30	30	32.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
30	31	33.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
31	31	33.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
31	32	35.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
32	32	35.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
32	33	36.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
33	33	36.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
33	34	38.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
34	34	38.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
34	35	39.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
35	35	39.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
35	36	40.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
36	36	40.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
36	37	42.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
37	37	42.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
37	38	43.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
38	38	43.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
38	39	45.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase9.ISO.To.Tinf
(Pretensadoisostático(t=0)). Tensiones a tiempo Tinf
1: 1|fase9.ISO.To
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
39	40	46.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
40	40	46.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
40	41	48.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
41	41	48.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
41	42	49.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
42	42	49.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
42	43	51.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
43	43	51.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
43	44	51.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
44	44	51.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
44	45	52.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
45	1045	52.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
45	46	53.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
46	46	53.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
46	47	53.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
47	47	53.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
47	48	55.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
48	48	55.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
48	49	56.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
49	49	56.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
49	50	58.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
50	50	58.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
50	51	59.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
51	51	59.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
51	52	61.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
52	52	61.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
52	53	62.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
53	53	62.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
53	54	64.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
54	54	64.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
54	55	65.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
55	55	65.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
55	56	67.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
56	56	67.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
56	57	68.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
57	57	68.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
57	58	69.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
58	58	69.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
58	59	71.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
59	59	71.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
59	60	72.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
60	60	72.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
60	61	74.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
61	61	74.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
61	62	75.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
62	62	75.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
62	63	77.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
63	63	77.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
63	64	78.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
64	64	78.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
64	65	80.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
65	65	80.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
65	66	80.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
66	66	80.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
66	67	81.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
67	1067	81.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
67	68	82.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
68	68	82.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
68	69	83.08	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
69	69	83.08	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
69	70	84.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
70	70	84.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
70	71	86.23	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
71	71	86.23	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
71	72	87.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
72	72	87.80	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
72	73	89.38	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
73	73	89.38	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
73	74	90.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
74	74	90.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
74	75	92.53	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
75	75	92.53	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
75	76	94.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
76	76	94.10	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
76	77	95.68	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase9.ISO.To.Tinf
(Pretensadoisostático(t=0)). Tensiones a tiempo Tinf
1: 1|fase9.ISO.To
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
77	78	97.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
78	78	97.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
78	79	98.83	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
79	79	98.83	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
79	80	100.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
80	80	100.40	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
80	81	101.98	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
81	81	101.98	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
81	82	103.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
82	82	103.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
82	83	105.13	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
83	83	105.13	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
83	84	106.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
84	84	106.70	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
84	85	108.28	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
85	85	108.28	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
85	86	109.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
86	86	109.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
86	87	111.43	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
87	87	111.43	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
87	88	112.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
88	88	112.00	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
88	89	113.00	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
89	1089	113.00	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
89	90	114.00	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
90	90	114.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
90	91	114.58	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
91	91	114.58	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
91	92	116.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
92	92	116.15	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
92	93	117.73	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
93	93	117.73	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
93	94	119.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
94	94	119.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
94	95	120.88	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
95	95	120.88	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
95	96	122.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
96	96	122.45	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
96	97	124.03	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
97	97	124.03	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
97	98	125.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
98	98	125.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
98	99	127.18	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
99	99	127.18	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
99	100	128.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
100	100	128.75	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
100	101	130.33	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
101	101	130.33	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
101	102	131.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
102	102	131.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
102	103	133.48	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
103	103	133.48	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
103	104	135.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
104	104	135.05	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
104	105	136.63	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
105	105	136.63	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
105	106	138.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
106	106	138.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
106	107	139.78	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
107	107	139.78	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
107	108	141.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
108	108	141.35	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
108	109	142.93	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
109	109	142.93	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
109	110	143.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
110	110	143.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
110	111	144.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
111	1111	144.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
111	112	145.50	-728.78	0.00	-204.06	0	-403.07	2	-202.89	2	-175.75	2.35	-149.43
112	112	145.50	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
112	113	145.68	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
113	113	145.68	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
113	114	146.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
114	114	146.85	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
114	115	148.03	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
fase9.ISO.To.Tinf

retensadoIsostático(t=0)+ Tensiones a tiempo Tinf

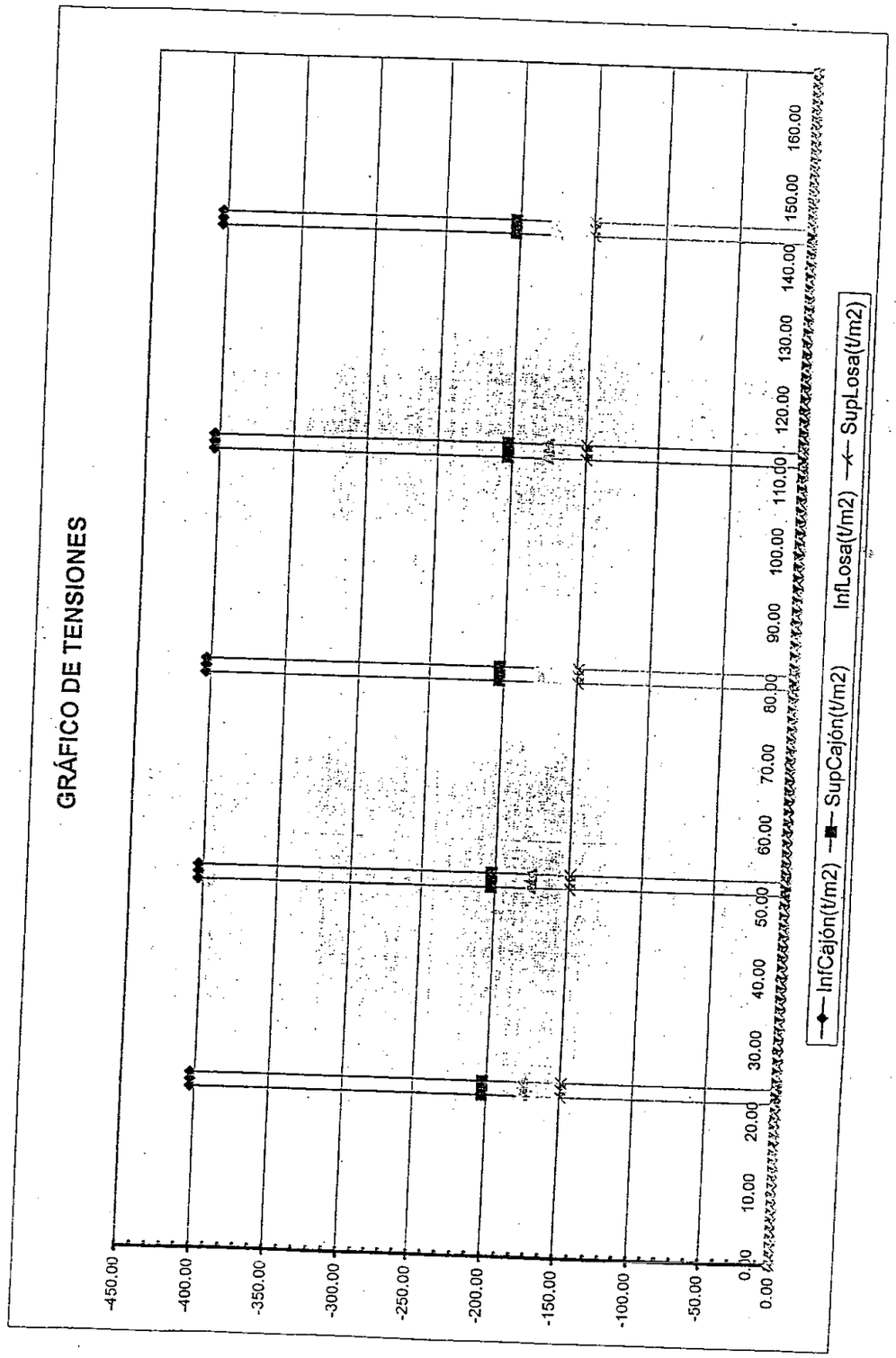
fase9.ISO.To

exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
115	116	149.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
116	116	149.20	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
116	117	150.38	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
117	117	150.38	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
117	118	151.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
118	118	151.55	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
118	119	152.73	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
119	119	152.73	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
119	120	153.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
120	120	153.90	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
120	121	155.08	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
121	121	155.08	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
121	122	156.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
122	122	156.25	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
122	123	157.43	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
123	123	157.43	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
123	124	158.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
124	124	158.60	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
24	125	159.78	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
125	125	159.78	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
125	126	160.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
126	126	160.95	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
126	127	162.13	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
127	127	162.13	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
127	128	163.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
128	128	163.30	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
128	129	164.48	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
129	129	164.48	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
129	130	165.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
130	130	165.65	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
130	131	166.83	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
131	131	166.83	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
131	132	167.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
132	132	167.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
132	133	168.00	0.00	0.00	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

Programa DINTEL IDEAM S.A.
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GRÁFICO DE TENSIONES



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Subanejo 6

TENSIONES EN ESTADOS COMBINADOS

SUBANEJO 6. TENSIONES EN ESTADOS COMBINADOS

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Subanejo 6. Tensiones en estados combinados

Subanejo 6.1. Tensiones en estados combinados de carga a tiempo 0

Subanejo 6.2. Tensiones en estados combinados de carga a tiempo infinito

Subanejo 6.1

TENSIONES EN ESTADOS COMBINADOS DE CARGA A TIEMPO 0

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F1.T0.MZ+

Construcción sin gradiente en fase constructiva 1

[... vigas + [.95; 1.05]/aset.ISO.To
Coef. eric

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-46.02	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-35.95	40.99	0	44.54	2	-83.82	2	0.00	2.35	0.00
2	2	1.00	-476.41	-35.95	-122.29	0	-488.69	2	-105.73	2	0.00	2.35	0.00
2	3	1.18	-476.41	-35.37	-116.05	0	-481.91	2	-118.49	2	0.00	2.35	0.00
3	3	1.18	-476.41	-35.37	-116.05	0	-481.91	2	-118.49	2	0.00	2.35	0.00
3	4	2.35	-476.41	-31.44	-76.81	0	-439.27	2	-198.74	2	0.00	2.35	0.00
4	4	2.35	-877.27	-31.44	-326.94	0	-1010.46	2	13.40	2	0.00	2.35	0.00
4	5	3.53	-877.27	-27.50	-292.31	0	-972.83	2	-57.42	2	0.00	2.35	0.00
5	5	3.53	-877.27	-27.50	-292.31	0	-972.83	2	-57.42	2	0.00	2.35	0.00
5	6	4.70	-877.27	-23.57	-262.31	0	-940.23	2	-118.77	2	0.00	2.35	0.00
6	6	4.70	-877.27	-23.57	-262.31	0	-940.23	2	-118.77	2	0.00	2.35	0.00
6	7	5.88	-877.27	-19.64	-236.92	0	-912.64	2	-170.69	2	0.00	2.35	0.00
7	7	5.88	-877.27	-19.64	-236.92	0	-912.64	2	-170.69	2	0.00	2.35	0.00
7	8	7.05	-877.27	-15.70	-216.16	0	-890.08	2	-213.14	2	0.00	2.35	0.00
8	8	7.05	-877.27	-15.70	-216.16	0	-890.08	2	-213.14	2	0.00	2.35	0.00
8	9	8.23	-877.27	-11.77	-200.02	0	-872.54	2	-246.15	2	0.00	2.35	0.00
9	9	8.23	-877.27	-11.77	-200.02	0	-872.54	2	-246.15	2	0.00	2.35	0.00
9	10	9.40	-877.27	-7.84	-188.50	0	-860.02	2	-269.71	2	0.00	2.35	0.00
10	10	9.40	-877.27	-7.84	-188.50	0	-860.02	2	-269.71	2	0.00	2.35	0.00
10	11	10.58	-877.27	-3.91	-181.60	0	-852.53	2	-283.82	2	0.00	2.35	0.00
11	11	10.58	-877.27	-3.91	-181.60	0	-852.53	2	-283.82	2	0.00	2.35	0.00
11	12	11.75	-877.27	0.03	-179.32	0	-850.05	2	-288.48	2	0.00	2.35	0.00
12	12	11.75	-877.27	0.03	-179.32	0	-850.05	2	-288.48	2	0.00	2.35	0.00
12	13	12.93	-877.27	3.96	-181.66	0	-852.59	2	-283.69	2	0.00	2.35	0.00
13	13	12.93	-877.27	3.96	-181.66	0	-852.59	2	-283.69	2	0.00	2.35	0.00
13	14	14.10	-877.27	7.89	-188.62	0	-860.15	2	-269.46	2	0.00	2.35	0.00
14	14	14.10	-877.27	7.89	-188.62	0	-860.15	2	-269.46	2	0.00	2.35	0.00
14	15	15.28	-877.27	11.82	-200.20	0	-872.74	2	-245.78	2	0.00	2.35	0.00
15	15	15.28	-877.27	11.82	-200.20	0	-872.74	2	-245.78	2	0.00	2.35	0.00
15	16	16.45	-877.27	15.76	-216.41	0	-890.35	2	-212.63	2	0.00	2.35	0.00
16	16	16.45	-876.65	36.48	-216.30	0	-889.77	2	-212.40	2	0.00	2.35	0.00
16	17	17.63	-876.55	40.42	-261.68	0	-939.00	2	-119.54	2	0.00	2.35	0.00
17	17	17.63	-876.55	40.42	-261.68	0	-832.12	2	-113.60	2	0.00	2.35	0.00
17	18	18.80	-876.46	44.35	-311.68	0	-883.52	2	-27.69	2	0.00	2.35	0.00
18	18	18.80	-877.27	23.63	-311.81	0	-884.17	2	-28.00	2	0.00	2.35	0.00
18	19	19.98	-877.27	27.56	-341.88	0	-915.11	2	23.62	2	0.00	2.35	0.00
19	19	19.98	-877.27	27.56	-341.88	0	-915.11	2	23.62	2	0.00	2.35	0.00
19	20	21.15	-877.27	31.49	-376.57	0	-950.81	2	83.18	2	0.00	2.35	0.00
20	20	21.15	-476.41	31.49	-103.98	0	-412.91	2	-127.39	2	0.00	2.35	0.00
20	21	22.33	-476.41	35.42	-143.30	0	-453.37	2	-59.89	2	0.00	2.35	0.00
21	21	22.33	-476.41	35.42	-143.30	0	-453.37	2	-59.89	2	0.00	2.35	0.00
21	22	22.50	-476.41	36.01	-149.55	0	-459.80	2	-49.16	2	0.00	2.35	0.00
22	22	22.50	0.00	36.01	40.40	0	41.57	2	-69.36	2	0.00	2.35	0.00
22	23	23.50	0.00	44.80	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
	1023	23.50	0.00	-53.98	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
)	24	24.50	0.00	-45.19	49.58	0	51.02	2	-85.12	2	0.00	2.35	0.00
24	24	24.50	-512.85	-45.19	-165.88	0	-500.00	2	-44.52	2	0.00	2.35	0.00
24	25	24.95	-512.85	-43.68	-145.88	0	-479.42	2	-78.86	2	0.00	2.35	0.00
25	25	24.95	-512.85	-43.68	-145.88	0	-479.42	2	-78.86	2	0.00	2.35	0.00
25	26	26.40	-512.85	-38.83	-86.07	0	-417.88	2	-181.54	2	0.00	2.35	0.00
26	26	26.40	-950.15	-38.83	-383.44	0	-1004.68	2	48.18	2	0.00	2.35	0.00
26	27	27.85	-950.15	-33.97	-330.66	0	-950.37	2	-42.43	2	0.00	2.35	0.00
27	27	27.85	-950.15	-33.97	-330.66	0	-950.37	2	-42.43	2	0.00	2.35	0.00
27	28	29.30	-950.15	-29.12	-284.91	0	-903.29	2	-120.98	2	0.00	2.35	0.00
28	28	29.30	-1313.77	-54.29	-522.37	0	-1381.13	2	63.21	2	0.00	2.35	0.00
28	29	30.75	-1313.88	-49.43	-446.87	0	-1303.50	2	-76.48	2	0.00	2.35	0.00
29	29	30.75	-1313.88	-49.43	-446.87	0	-1466.86	2	-67.44	2	0.00	2.35	0.00
29	30	32.20	-1313.96	-44.58	-378.40	0	-1392.52	2	-207.53	2	0.00	2.35	0.00
30	30	32.20	-1314.57	-19.41	-378.52	0	-1393.11	2	-207.73	2	0.00	2.35	0.00
30	31	33.65	-1314.57	-14.56	-353.89	0	-1366.35	2	-258.10	2	0.00	2.35	0.00
31	31	33.65	-1314.57	-14.56	-353.89	0	-1366.35	2	-258.10	2	0.00	2.35	0.00
31	32	35.10	-1314.57	-9.71	-336.30	0	-1347.23	2	-294.07	2	0.00	2.35	0.00
32	32	35.10	-1314.57	-9.71	-336.30	0	-1347.23	2	-294.07	2	0.00	2.35	0.00
32	33	36.55	-1314.57	-4.85	-325.74	0	-1335.76	2	-315.66	2	0.00	2.35	0.00
33	33	36.55	-1314.57	-4.85	-325.74	0	-1335.76	2	-315.66	2	0.00	2.35	0.00
33	34	38.00	-1314.57	0.00	-322.22	0	-1331.93	2	-322.86	2	0.00	2.35	0.00
34	34	38.00	-1314.57	0.00	-322.22	0	-1331.93	2	-322.86	2	0.00	2.35	0.00
34	35	39.45	-1314.57	4.85	-325.74	0	-1335.76	2	-315.66	2	0.00	2.35	0.00
35	35	39.45	-1314.57	4.85	-325.74	0	-1335.76	2	-315.66	2	0.00	2.35	0.00
35	36	40.90	-1314.57	9.71	-336.30	0	-1347.23	2	-294.07	2	0.00	2.35	0.00
36	36	40.90	-1314.57	9.71	-336.30	0	-1347.23	2	-294.07	2	0.00	2.35	0.00
36	37	42.35	-1314.57	14.56	-353.89	0	-1366.35	2	-258.10	2	0.00	2.35	0.00
37	37	42.35	-1314.57	14.56	-353.89	0	-1366.35	2	-258.10	2	0.00	2.35	0.00
37	38	43.80	-1314.57	19.41	-378.52	0	-1393.11	2	-207.73	2	0.00	2.35	0.00
38	38	43.80	-1313.96	44.58	-378.40	0	-1392.52	2	-207.53	2	0.00	2.35	0.00
38	39	45.25	-1313.88	49.43	-446.87	0	-1466.86	2	-67.44	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F1.T0.MZ+
nstrucción sin gradiente en fase constructiva 1
Pvigas + [.95; 1.05]fase1.ISO.To
Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1313.88	49.43	-446.87	0	-1303.50	2	-76.48	2	0.00	2.35	0.00
39	40	46.70	-1313.77	54.29	-522.37	0	-1381.13	2	53.21	2	0.00	2.35	0.00
40	40	46.70	-950.15	29.12	-284.91	0	-903.29	2	-120.98	2	0.00	2.35	0.00
40	41	48.15	-950.15	33.97	-330.66	0	-950.37	2	-42.43	2	0.00	2.35	0.00
41	41	48.15	-950.15	33.97	-330.66	0	-950.37	2	-42.43	2	0.00	2.35	0.00
41	42	49.60	-950.15	38.83	-383.44	0	-1004.68	2	48.18	2	0.00	2.35	0.00
42	42	49.60	-512.85	38.83	-86.07	0	-417.88	2	-181.54	2	0.00	2.35	0.00
42	43	51.05	-512.85	43.68	-145.88	0	-479.42	2	-78.86	2	0.00	2.35	0.00
43	43	51.05	-512.85	43.68	-145.88	0	-479.42	2	-78.86	2	0.00	2.35	0.00
43	44	51.50	-512.85	45.19	-165.88	0	-500.00	2	-44.52	2	0.00	2.35	0.00
44	44	51.50	0.00	45.19	49.58	0	51.02	2	-85.12	2	0.00	2.35	0.00
44	45	52.50	0.00	53.98	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	1045	52.50	0.00	-53.98	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	46	53.50	0.00	-45.19	49.58	0	51.02	2	-85.12	2	0.00	2.35	0.00
46	46	53.50	-512.85	-45.19	-165.88	0	-500.00	2	-44.52	2	0.00	2.35	0.00
46	47	53.95	-512.85	-43.68	-145.88	0	-479.42	2	-78.86	2	0.00	2.35	0.00
47	47	53.95	-512.85	-43.68	-145.88	0	-479.42	2	-78.86	2	0.00	2.35	0.00
47	48	55.40	-512.85	-38.83	-86.07	0	-417.88	2	-181.54	2	0.00	2.35	0.00
48	48	55.40	-950.15	-38.83	-383.44	0	-1004.68	2	48.18	2	0.00	2.35	0.00
48	49	56.85	-950.15	-33.97	-330.66	0	-950.37	2	-42.43	2	0.00	2.35	0.00
)	49	56.85	-950.15	-33.97	-330.66	0	-950.37	2	-42.43	2	0.00	2.35	0.00
49	50	58.30	-950.15	-29.12	-284.91	0	-903.29	2	-120.98	2	0.00	2.35	0.00
50	50	58.30	-1313.77	-54.29	-522.37	0	-1381.13	2	53.21	2	0.00	2.35	0.00
50	51	59.75	-1313.88	-49.43	-446.87	0	-1303.50	2	-76.48	2	0.00	2.35	0.00
51	51	59.75	-1313.88	-49.43	-446.87	0	-1466.86	2	-67.44	2	0.00	2.35	0.00
51	52	61.20	-1313.96	-44.58	-378.40	0	-1392.52	2	-207.53	2	0.00	2.35	0.00
52	52	61.20	-1314.57	-19.41	-378.52	0	-1393.11	2	-207.73	2	0.00	2.35	0.00
52	53	62.65	-1314.57	-14.56	-353.89	0	-1366.35	2	-258.10	2	0.00	2.35	0.00
53	53	62.65	-1314.57	-14.56	-353.89	0	-1366.35	2	-258.10	2	0.00	2.35	0.00
53	54	64.10	-1314.57	-9.71	-336.30	0	-1347.23	2	-294.07	2	0.00	2.35	0.00
54	54	64.10	-1314.57	-9.71	-336.30	0	-1347.23	2	-294.07	2	0.00	2.35	0.00
54	55	65.55	-1314.57	-4.85	-325.74	0	-1335.76	2	-315.66	2	0.00	2.35	0.00
55	55	65.55	-1314.57	-4.85	-325.74	0	-1335.76	2	-315.66	2	0.00	2.35	0.00
55	56	67.00	-1314.57	0.00	-322.22	0	-1331.93	2	-322.86	2	0.00	2.35	0.00
56	56	67.00	-1314.57	0.00	-322.22	0	-1331.93	2	-322.86	2	0.00	2.35	0.00
56	57	68.45	-1314.57	4.85	-325.74	0	-1335.76	2	-315.66	2	0.00	2.35	0.00
57	57	68.45	-1314.57	4.85	-325.74	0	-1335.76	2	-315.66	2	0.00	2.35	0.00
57	58	69.90	-1314.57	9.71	-336.30	0	-1347.23	2	-294.07	2	0.00	2.35	0.00
58	58	69.90	-1314.57	9.71	-336.30	0	-1347.23	2	-294.07	2	0.00	2.35	0.00
58	59	71.35	-1314.57	14.56	-353.89	0	-1366.35	2	-258.10	2	0.00	2.35	0.00
59	59	71.35	-1314.57	14.56	-353.89	0	-1366.35	2	-258.10	2	0.00	2.35	0.00
59	60	72.80	-1314.57	19.41	-378.52	0	-1393.11	2	-207.73	2	0.00	2.35	0.00
60	60	72.80	-1313.96	44.58	-378.40	0	-1392.52	2	-207.53	2	0.00	2.35	0.00
60	61	74.25	-1313.88	49.43	-446.87	0	-1466.86	2	-67.44	2	0.00	2.35	0.00
'	61	74.25	-1313.88	49.43	-446.87	0	-1303.50	2	-76.48	2	0.00	2.35	0.00
'	62	75.70	-1313.77	54.29	-522.37	0	-1381.13	2	53.21	2	0.00	2.35	0.00
.	62	75.70	-950.15	29.12	-284.91	0	-903.29	2	-120.98	2	0.00	2.35	0.00
62	63	77.15	-950.15	33.97	-330.66	0	-950.37	2	-42.43	2	0.00	2.35	0.00
63	63	77.15	-950.15	33.97	-330.66	0	-950.37	2	-42.43	2	0.00	2.35	0.00
63	64	78.60	-950.15	38.83	-383.44	0	-1004.68	2	48.18	2	0.00	2.35	0.00
64	64	78.60	-512.85	38.83	-86.07	0	-417.88	2	-181.54	2	0.00	2.35	0.00
64	65	80.05	-512.85	43.68	-145.88	0	-479.42	2	-78.86	2	0.00	2.35	0.00
65	65	80.05	-512.85	43.68	-145.88	0	-479.42	2	-78.86	2	0.00	2.35	0.00
65	66	80.50	-512.85	45.19	-165.88	0	-500.00	2	-44.52	2	0.00	2.35	0.00
66	66	80.50	0.00	45.19	49.58	0	51.02	2	-85.12	2	0.00	2.35	0.00
66	67	81.50	0.00	53.98	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	1067	81.50	0.00	-58.16	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	68	82.50	0.00	-49.37	53.77	0	55.33	2	-92.31	2	0.00	2.35	0.00
68	68	82.50	-585.73	-49.37	-212.71	0	-594.99	2	-10.94	2	0.00	2.35	0.00
68	69	83.08	-585.73	-47.45	-184.88	0	-566.35	2	-58.71	2	0.00	2.35	0.00
69	69	83.08	-585.73	-47.45	-184.88	0	-566.35	2	-58.71	2	0.00	2.35	0.00
69	70	84.65	-585.73	-42.17	-114.31	0	-493.73	2	-179.87	2	0.00	2.35	0.00
70	70	84.65	-1095.92	-42.17	-461.24	0	-1178.34	2	88.14	2	0.00	2.35	0.00
70	71	86.23	-1095.92	-36.90	-398.96	0	-1114.25	2	-18.78	2	0.00	2.35	0.00
71	71	86.23	-1095.92	-36.90	-398.96	0	-1114.25	2	-18.78	2	0.00	2.35	0.00
71	72	87.80	-1095.92	-31.63	-344.99	0	-1058.71	2	-111.44	2	0.00	2.35	0.00
72	72	87.80	-1605.30	-59.94	-677.49	0	-1727.95	2	132.32	2	0.00	2.35	0.00
72	73	89.38	-1605.40	-54.66	-586.86	0	-1634.75	2	-23.33	2	0.00	2.35	0.00
73	73	89.38	-1605.40	-54.66	-586.86	0	-1836.72	2	1.12	2	0.00	2.35	0.00
'	74	90.95	-1605.49	-49.39	-504.54	0	-1747.32	2	-167.30	2	0.00	2.35	0.00
'	74	90.95	-1606.11	-21.09	-504.67	0	-1747.93	2	-167.49	2	0.00	2.35	0.00
74	75	92.53	-1606.11	-15.81	-475.61	0	-1716.35	2	-226.91	2	0.00	2.35	0.00
75	75	92.53	-1606.11	-15.81	-475.61	0	-1716.35	2	-226.91	2	0.00	2.35	0.00
75	76	94.10	-1606.11	-10.54	-454.85	0	-1693.79	2	-269.36	2	0.00	2.35	0.00
76	76	94.10	-1606.11	-10.54	-454.85	0	-1693.79	2	-269.36	2	0.00	2.35	0.00
76	77	95.68	-1606.11	-5.27	-442.40	0	-1680.26	2	-294.82	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F1.T0.MZ+
onstrucción sin gradiente en fase constructiva 1
1)Pvigas + [.95; 1.05]fase1.ISO.To
ef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1606.11	-5.27	-442.40	0	-1680.26	2	-294.82	2	0.00	2.35	0.00
77	78	97.25	-1606.11	0.00	-438.25	0	-1675.75	2	-303.31	2	0.00	2.35	0.00
78	78	97.25	-1606.11	0.00	-438.25	0	-1675.75	2	-303.31	2	0.00	2.35	0.00
78	79	98.83	-1606.11	5.27	-442.40	0	-1680.26	2	-294.82	2	0.00	2.35	0.00
79	79	98.83	-1606.11	5.27	-442.40	0	-1680.26	2	-294.82	2	0.00	2.35	0.00
79	80	100.40	-1606.11	10.54	-454.85	0	-1693.79	2	-269.36	2	0.00	2.35	0.00
80	80	100.40	-1606.11	10.54	-454.85	0	-1693.79	2	-269.36	2	0.00	2.35	0.00
80	81	101.98	-1606.11	15.81	-475.61	0	-1716.35	2	-226.91	2	0.00	2.35	0.00
81	81	101.98	-1606.11	15.81	-475.61	0	-1716.35	2	-226.91	2	0.00	2.35	0.00
81	82	103.55	-1606.11	21.09	-504.67	0	-1747.93	2	-167.49	2	0.00	2.35	0.00
82	82	103.55	-1605.49	49.39	-504.54	0	-1747.32	2	-167.30	2	0.00	2.35	0.00
82	83	105.13	-1605.40	54.66	-586.86	0	-1836.72	2	1.12	2	0.00	2.35	0.00
83	83	105.13	-1605.40	54.66	-586.86	0	-1634.75	2	-23.33	2	0.00	2.35	0.00
83	84	106.70	-1605.30	59.94	-677.49	0	-1727.95	2	132.32	2	0.00	2.35	0.00
84	84	106.70	-1095.92	31.63	-344.99	0	-1058.71	2	-111.44	2	0.00	2.35	0.00
84	85	108.28	-1095.92	36.90	-398.96	0	-1114.25	2	-18.78	2	0.00	2.35	0.00
85	85	108.28	-1095.92	36.90	-398.96	0	-1114.25	2	-18.78	2	0.00	2.35	0.00
85	86	109.85	-1095.92	42.17	-461.24	0	-1178.34	2	88.14	2	0.00	2.35	0.00
86	86	109.85	-585.73	42.17	-114.31	0	-493.73	2	-179.87	2	0.00	2.35	0.00
86	87	111.43	-585.73	47.45	-184.88	0	-566.35	2	-58.71	2	0.00	2.35	0.00
87	87	111.43	-585.73	47.45	-184.88	0	-566.35	2	-58.71	2	0.00	2.35	0.00
87	88	112.00	-585.73	49.37	-212.72	0	-595.00	2	-10.92	2	0.00	2.35	0.00
88	88	112.00	0.00	49.37	53.76	0	55.32	2	-92.29	2	0.00	2.35	0.00
88	89	113.00	0.00	58.16	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	1089	113.00	0.00	-58.16	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	90	114.00	0.00	-49.37	53.77	0	55.33	2	-92.31	2	0.00	2.35	0.00
90	90	114.00	-585.73	-49.37	-212.71	0	-594.99	2	-10.94	2	0.00	2.35	0.00
90	91	114.58	-585.73	-47.45	-184.88	0	-566.35	2	-58.71	2	0.00	2.35	0.00
91	91	114.58	-585.73	-47.45	-184.88	0	-566.35	2	-58.71	2	0.00	2.35	0.00
91	92	116.15	-585.73	-42.17	-114.31	0	-493.73	2	-179.87	2	0.00	2.35	0.00
92	92	116.15	-1095.92	-42.17	-461.24	0	-1178.34	2	88.14	2	0.00	2.35	0.00
92	93	117.73	-1095.92	-36.90	-398.96	0	-1114.25	2	-18.78	2	0.00	2.35	0.00
93	93	117.73	-1095.92	-36.90	-398.96	0	-1114.25	2	-18.78	2	0.00	2.35	0.00
93	94	119.30	-1095.92	-31.63	-344.99	0	-1058.71	2	-111.44	2	0.00	2.35	0.00
94	94	119.30	-1605.30	-59.94	-677.49	0	-1727.95	2	132.32	2	0.00	2.35	0.00
94	95	120.88	-1605.40	-54.66	-586.86	0	-1634.75	2	-23.33	2	0.00	2.35	0.00
95	95	120.88	-1605.40	-54.66	-586.86	0	-1836.72	2	1.12	2	0.00	2.35	0.00
95	96	122.45	-1605.49	-49.39	-504.53	0	-1747.31	2	-167.32	2	0.00	2.35	0.00
96	96	122.45	-1606.11	-21.09	-504.66	0	-1747.92	2	-167.51	2	0.00	2.35	0.00
96	97	124.03	-1606.11	-15.81	-475.60	0	-1716.34	2	-226.93	2	0.00	2.35	0.00
97	97	124.03	-1606.11	-15.81	-475.60	0	-1716.34	2	-226.93	2	0.00	2.35	0.00
97	98	125.60	-1606.11	-10.54	-454.85	0	-1693.79	2	-269.36	2	0.00	2.35	0.00
98	98	125.60	-1606.11	-10.54	-454.85	0	-1693.79	2	-269.36	2	0.00	2.35	0.00
98	99	127.18	-1606.11	-5.27	-442.39	0	-1680.25	2	-294.84	2	0.00	2.35	0.00
99	99	127.18	-1606.11	-5.27	-442.39	0	-1680.25	2	-294.84	2	0.00	2.35	0.00
99	100	128.75	-1606.11	0.00	-438.24	0	-1675.74	2	-303.33	2	0.00	2.35	0.00
100	100	128.75	-1606.11	0.00	-438.24	0	-1675.74	2	-303.33	2	0.00	2.35	0.00
100	101	130.33	-1606.11	5.27	-442.39	0	-1680.25	2	-294.84	2	0.00	2.35	0.00
101	101	130.33	-1606.11	5.27	-442.39	0	-1680.25	2	-294.84	2	0.00	2.35	0.00
101	102	131.90	-1606.11	10.54	-454.85	0	-1693.79	2	-269.36	2	0.00	2.35	0.00
102	102	131.90	-1606.11	10.54	-454.85	0	-1693.79	2	-269.36	2	0.00	2.35	0.00
102	103	133.48	-1606.11	15.81	-475.61	0	-1716.35	2	-226.91	2	0.00	2.35	0.00
103	103	133.48	-1606.11	15.81	-475.61	0	-1716.35	2	-226.91	2	0.00	2.35	0.00
103	104	135.05	-1606.11	21.09	-504.66	0	-1747.92	2	-167.51	2	0.00	2.35	0.00
104	104	135.05	-1605.49	49.39	-504.53	0	-1747.31	2	-167.32	2	0.00	2.35	0.00
104	105	136.63	-1605.40	54.66	-586.86	0	-1836.72	2	1.12	2	0.00	2.35	0.00
105	105	136.63	-1605.40	54.66	-586.86	0	-1634.75	2	-23.33	2	0.00	2.35	0.00
105	106	138.20	-1605.30	59.94	-677.49	0	-1727.95	2	132.32	2	0.00	2.35	0.00
106	106	138.20	-1095.92	31.63	-344.99	0	-1058.71	2	-111.44	2	0.00	2.35	0.00
106	107	139.78	-1095.92	36.90	-398.96	0	-1114.25	2	-18.78	2	0.00	2.35	0.00
107	107	139.78	-1095.92	36.90	-398.96	0	-1114.25	2	-18.78	2	0.00	2.35	0.00
107	108	141.35	-1095.92	42.17	-461.24	0	-1178.34	2	88.14	2	0.00	2.35	0.00
108	108	141.35	-585.73	42.17	-114.31	0	-493.73	2	-179.87	2	0.00	2.35	0.00
108	109	142.93	-585.73	47.45	-184.88	0	-566.35	2	-58.71	2	0.00	2.35	0.00
109	109	142.93	-585.73	47.45	-184.88	0	-566.35	2	-58.71	2	0.00	2.35	0.00
109	110	143.50	-585.73	49.37	-212.72	0	-595.00	2	-10.92	2	0.00	2.35	0.00
110	110	143.50	0.00	49.37	53.76	0	55.32	2	-92.29	2	0.00	2.35	0.00
110	111	144.50	0.00	58.16	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
111	1111	144.50	0.00	-58.16	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
111	112	145.50	0.00	-44.80	40.41	0	41.58	2	-69.38	2	0.00	2.35	0.00
112	112	145.50	-476.41	-36.01	-149.54	0	-459.79	2	-49.17	2	0.00	2.35	0.00
112	113	145.68	-476.41	-35.42	-143.30	0	-453.37	2	-59.89	2	0.00	2.35	0.00
113	113	145.68	-476.41	-35.42	-143.30	0	-453.37	2	-59.89	2	0.00	2.35	0.00
113	114	146.85	-476.41	-31.49	-103.98	0	-412.91	2	-127.39	2	0.00	2.35	0.00
114	114	146.85	-877.27	-31.49	-376.57	0	-950.81	2	83.18	2	0.00	2.35	0.00
114	115	148.03	-877.27	-27.56	-341.88	0	-915.11	2	23.62	2	0.00	2.35	0.00

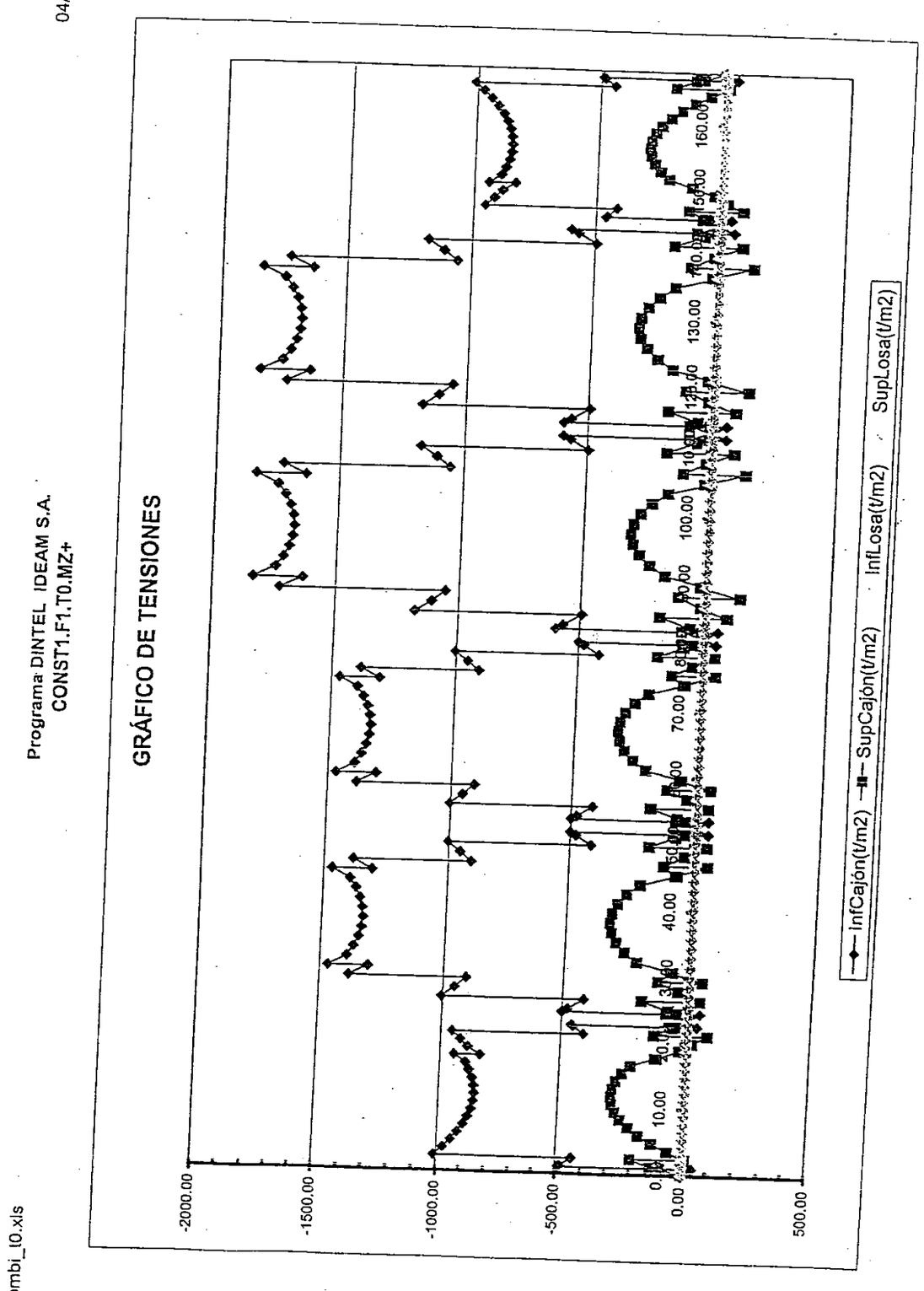
CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F1.T0.MZ+

Construcción sin gradiente en fase constructiva 1

1: ...gas + [95: 1.05](fase1.tSO.To
Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.27	-27.56	-341.88	0	-915.11	2	23.62	2	0.00	2.35	0.00
115	116	149.20	-877.27	-23.63	-311.81	0	-884.17	2	-28.00	2	0.00	2.35	0.00
116	116	149.20	-876.46	-44.35	-311.68	0	-883.52	2	-27.69	2	0.00	2.35	0.00
116	117	150.38	-876.55	-40.42	-261.68	0	-832.12	2	-113.60	2	0.00	2.35	0.00
117	117	150.38	-876.55	-40.42	-261.68	0	-939.00	2	-119.54	2	0.00	2.35	0.00
117	118	151.55	-876.65	-36.48	-216.30	0	-889.77	2	-212.40	2	0.00	2.35	0.00
118	118	151.55	-877.27	-15.76	-216.41	0	-890.35	2	-212.63	2	0.00	2.35	0.00
118	119	152.73	-877.27	-11.82	-200.20	0	-872.74	2	-245.78	2	0.00	2.35	0.00
119	119	152.73	-877.27	-11.82	-200.20	0	-872.74	2	-245.78	2	0.00	2.35	0.00
119	120	153.90	-877.27	-7.89	-188.62	0	-860.15	2	-269.46	2	0.00	2.35	0.00
120	120	153.90	-877.27	-7.89	-188.62	0	-860.15	2	-269.46	2	0.00	2.35	0.00
120	121	155.08	-877.27	-3.96	-181.66	0	-852.59	2	-283.69	2	0.00	2.35	0.00
121	121	155.08	-877.27	-3.96	-181.66	0	-852.59	2	-283.69	2	0.00	2.35	0.00
121	122	156.25	-877.27	-0.03	-179.32	0	-850.05	2	-288.48	2	0.00	2.35	0.00
122	122	156.25	-877.27	-0.03	-179.32	0	-850.05	2	-288.48	2	0.00	2.35	0.00
122	123	157.43	-877.27	3.91	-181.60	0	-852.53	2	-283.82	2	0.00	2.35	0.00
123	123	157.43	-877.27	3.91	-181.60	0	-852.53	2	-283.82	2	0.00	2.35	0.00
123	124	158.60	-877.27	7.84	-188.50	0	-860.02	2	-269.71	2	0.00	2.35	0.00
124	124	158.60	-877.27	7.84	-188.50	0	-860.02	2	-269.71	2	0.00	2.35	0.00
124	125	159.78	-877.27	11.77	-200.02	0	-872.54	2	-246.15	2	0.00	2.35	0.00
125	125	159.78	-877.27	11.77	-200.02	0	-872.54	2	-246.15	2	0.00	2.35	0.00
125	126	160.95	-877.27	15.70	-216.16	0	-890.08	2	-213.14	2	0.00	2.35	0.00
126	126	160.95	-877.27	15.70	-216.16	0	-890.08	2	-213.14	2	0.00	2.35	0.00
126	127	162.13	-877.27	19.64	-236.92	0	-912.64	2	-170.69	2	0.00	2.35	0.00
127	127	162.13	-877.27	19.64	-236.92	0	-912.64	2	-170.69	2	0.00	2.35	0.00
127	128	163.30	-877.27	23.57	-262.31	0	-940.23	2	-118.77	2	0.00	2.35	0.00
128	128	163.30	-877.27	23.57	-262.31	0	-940.23	2	-118.77	2	0.00	2.35	0.00
128	129	164.48	-877.27	27.50	-292.31	0	-972.83	2	-57.42	2	0.00	2.35	0.00
129	129	164.48	-877.27	27.50	-292.31	0	-972.83	2	-57.42	2	0.00	2.35	0.00
129	130	165.65	-877.27	31.44	-326.94	0	-1010.46	2	13.40	2	0.00	2.35	0.00
130	130	165.65	-476.41	31.44	-76.81	0	-439.27	2	-198.74	2	0.00	2.35	0.00
130	131	166.83	-476.41	35.37	-116.05	0	-481.91	2	-118.49	2	0.00	2.35	0.00
131	131	166.83	-476.41	35.37	-116.05	0	-481.91	2	-118.49	2	0.00	2.35	0.00
131	132	167.00	-476.41	35.95	-122.30	0	-488.70	2	-105.71	2	0.00	2.35	0.00
132	132	167.00	0.00	35.95	40.98	0	44.53	2	-83.80	2	0.00	2.35	0.00
132	133	168.00	0.00	46.02	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F2.T0.MZ+

...strucción sin gradiente en fase constructiva 2

[... vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-57.44	0.00	0	0.00	2	0.00	2	0.00	2.35	0.0(
1	2	1.00	0.00	-46.40	51.93	0	56.43	2	-106.19	2	0.00	2.35	0.0(
2	2	1.00	-476.41	-46.40	-111.35	0	-476.80	2	-128.10	2	0.00	2.35	0.0(
2	3	1.18	-476.41	-45.65	-103.30	0	-468.05	2	-144.57	2	0.00	2.35	0.0(
3	3	1.18	-476.41	-45.65	-103.30	0	-468.05	2	-144.57	2	0.00	2.35	0.0(
3	4	2.35	-476.41	-40.58	-52.65	0	-413.01	2	-248.14	2	0.00	2.35	0.0(
4	4	2.35	-877.27	-40.58	-302.78	0	-984.21	2	-36.01	2	0.00	2.35	0.0(
4	5	3.53	-877.27	-35.49	-258.09	0	-935.65	2	-127.40	2	0.00	2.35	0.0(
5	5	3.53	-877.27	-35.49	-258.09	0	-935.65	2	-127.40	2	0.00	2.35	0.0(
5	6	4.70	-877.27	-30.42	-219.37	0	-893.57	2	-206.58	2	0.00	2.35	0.0(
6	6	4.70	-877.27	-30.42	-219.37	0	-893.57	2	-206.58	2	0.00	2.35	0.0(
6	7	5.88	-877.27	-25.35	-186.60	0	-857.96	2	-273.59	2	0.00	2.35	0.0(
7	7	5.88	-877.27	-25.35	-186.60	0	-857.96	2	-273.59	2	0.00	2.35	0.0(
7	8	7.05	-877.27	-20.27	-159.80	0	-828.84	2	-328.40	2	0.00	2.35	0.0(
8	8	7.05	-877.27	-20.27	-159.80	0	-828.84	2	-328.40	2	0.00	2.35	0.0(
8	9	8.23	-877.27	-15.20	-138.96	0	-806.19	2	-371.01	2	0.00	2.35	0.0(
9	9	8.23	-877.27	-15.20	-138.96	0	-806.19	2	-371.01	2	0.00	2.35	0.0(
9	10	9.40	-877.27	-10.12	-124.08	0	-790.02	2	-401.44	2	0.00	2.35	0.0(
10	10	9.40	-877.27	-10.12	-124.08	0	-790.02	2	-401.44	2	0.00	2.35	0.0(
10	11	10.58	-877.27	-5.05	-115.17	0	-780.34	2	-419.66	2	0.00	2.35	0.0(
1	11	10.58	-877.27	-5.05	-115.17	0	-780.34	2	-419.66	2	0.00	2.35	0.0(
11	12	11.75	-877.27	0.03	-112.22	0	-777.13	2	-425.70	2	0.00	2.35	0.0(
12	12	11.75	-877.27	0.03	-112.22	0	-777.13	2	-425.70	2	0.00	2.35	0.0(
12	13	12.93	-877.27	5.10	-115.23	0	-780.40	2	-419.54	2	0.00	2.35	0.0(
13	13	12.93	-877.27	5.10	-115.23	0	-780.40	2	-419.54	2	0.00	2.35	0.0(
13	14	14.10	-877.27	10.17	-124.20	0	-790.15	2	-401.20	2	0.00	2.35	0.0(
14	14	14.10	-877.27	10.17	-124.20	0	-790.15	2	-401.20	2	0.00	2.35	0.0(
14	15	15.28	-877.27	15.25	-139.14	0	-806.39	2	-370.65	2	0.00	2.35	0.0(
15	15	15.28	-877.27	15.25	-139.14	0	-806.39	2	-370.65	2	0.00	2.35	0.0(
15	16	16.45	-877.27	20.33	-160.04	0	-829.10	2	-327.91	2	0.00	2.35	0.0(
16	16	16.45	-876.54	41.05	-159.93	0	-828.43	2	-327.60	2	0.00	2.35	0.0(
16	17	17.63	-876.42	46.13	-211.35	0	-884.22	2	-222.36	2	0.00	2.35	0.0(
17	17	17.63	-876.42	46.13	-211.35	0	-780.24	2	-199.93	2	0.00	2.35	0.0(
17	18	18.80	-876.30	51.20	-268.73	0	-839.22	2	-101.33	2	0.00	2.35	0.0(
18	18	18.80	-877.27	30.48	-268.86	0	-839.97	2	-101.73	2	0.00	2.35	0.0(
18	19	19.98	-877.27	35.56	-307.66	0	-879.90	2	-35.12	2	0.00	2.35	0.0(
19	19	19.98	-877.27	35.56	-307.66	0	-879.90	2	-35.12	2	0.00	2.35	0.0(
19	20	21.15	-877.27	40.63	-352.41	0	-925.95	2	-41.70	2	0.00	2.35	0.0(
20	20	21.15	-476.41	40.63	-79.82	0	-388.05	2	-168.87	2	0.00	2.35	0.0(
20	21	22.33	-476.41	45.70	-130.55	0	-440.25	2	-81.77	2	0.00	2.35	0.0(
21	21	22.33	-476.41	45.70	-130.55	0	-440.25	2	-81.77	2	0.00	2.35	0.0(
21	22	22.50	-476.41	46.46	-138.61	0	-448.54	2	-67.94	2	0.00	2.35	0.0(
22	22	22.50	0.00	46.46	51.34	0	52.83	2	-88.14	2	0.00	2.35	0.0(
22	23	23.50	0.00	56.22	0.00	0	0.00	2	0.00	2	0.00	2.35	0.0(
23	1023	23.50	0.00	-68.07	0.00	0	0.00	2	0.00	2	0.00	2.35	0.0(
)	24	24.50	0.00	-58.31	63.19	0	65.03	2	-108.48	2	0.00	2.35	0.0(
24	24	24.50	-512.85	-58.31	-152.27	0	-486.00	2	-67.89	2	0.00	2.35	0.0(
24	25	24.95	-512.85	-56.37	-126.46	0	-459.44	2	-112.20	2	0.00	2.35	0.0(
25	25	24.95	-512.85	-56.37	-126.46	0	-459.44	2	-112.20	2	0.00	2.35	0.0(
25	26	26.40	-512.85	-50.11	-49.28	0	-380.02	2	-244.70	2	0.00	2.35	0.0(
26	26	26.40	-950.15	-50.11	-346.65	0	-966.82	2	-14.98	2	0.00	2.35	0.0(
26	27	27.85	-950.15	-43.84	-278.55	0	-896.74	2	-131.89	2	0.00	2.35	0.0(
27	27	27.85	-950.15	-43.84	-278.55	0	-896.74	2	-131.89	2	0.00	2.35	0.0(
27	28	29.30	-950.15	-37.58	-219.51	0	-835.99	2	-233.25	2	0.00	2.35	0.0(
28	28	29.30	-1313.61	-62.75	-456.97	0	-1313.73	2	-58.96	2	0.00	2.35	0.0(
28	29	30.75	-1313.75	-56.48	-370.23	0	-1224.55	2	-207.97	2	0.00	2.35	0.0(
29	29	30.75	-1313.75	-56.48	-370.23	0	-1383.48	2	-224.07	2	0.00	2.35	0.0(
29	30	32.20	-1313.85	-50.22	-292.56	0	-1299.16	2	-382.99	2	0.00	2.35	0.0(
30	30	32.20	-1314.57	-25.05	-292.68	0	-1299.83	2	-383.27	2	0.00	2.35	0.0(
30	31	33.65	-1314.57	-18.79	-260.90	0	-1265.30	2	-448.26	2	0.00	2.35	0.0(
31	31	33.65	-1314.57	-18.79	-260.90	0	-1265.30	2	-448.26	2	0.00	2.35	0.0(
31	32	35.10	-1314.57	-12.53	-238.20	0	-1240.63	2	-494.68	2	0.00	2.35	0.0(
32	32	35.10	-1314.57	-12.53	-238.20	0	-1240.63	2	-494.68	2	0.00	2.35	0.0(
32	33	36.55	-1314.57	-6.26	-224.58	0	-1225.83	2	-522.53	2	0.00	2.35	0.0(
33	33	36.55	-1314.57	-6.26	-224.58	0	-1225.83	2	-522.53	2	0.00	2.35	0.0(
33	34	38.00	-1314.57	0.00	-220.03	0	-1220.88	2	-531.83	2	0.00	2.35	0.0(
34	34	38.00	-1314.57	0.00	-220.03	0	-1220.88	2	-531.83	2	0.00	2.35	0.0(
34	35	39.45	-1314.57	6.26	-224.58	0	-1225.83	2	-522.53	2	0.00	2.35	0.0(
35	35	39.45	-1314.57	6.26	-224.58	0	-1225.83	2	-522.53	2	0.00	2.35	0.0(
5	36	40.90	-1314.57	12.53	-238.20	0	-1240.63	2	-494.68	2	0.00	2.35	0.0(
36	36	40.90	-1314.57	12.53	-238.20	0	-1240.63	2	-494.68	2	0.00	2.35	0.0(
36	37	42.35	-1314.57	18.79	-260.90	0	-1265.30	2	-448.26	2	0.00	2.35	0.0(
37	37	42.35	-1314.57	18.79	-260.90	0	-1265.30	2	-448.26	2	0.00	2.35	0.0(
37	38	43.80	-1314.57	25.05	-292.68	0	-1299.83	2	-383.27	2	0.00	2.35	0.0(
38	38	43.80	-1313.85	50.22	-292.56	0	-1299.16	2	-382.99	2	0.00	2.35	0.0(
38	39	45.25	-1313.75	56.48	-370.23	0	-1383.48	2	-224.07	2	0.00	2.35	0.0(

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F2.T0.MZ+

Construcción sin gradiente en fase constructiva 2

[1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1313.75	56.48	-370.23	0	-1224.55	2	-207.97	2	0.00	2.35	0.00
39	40	46.70	-1313.61	62.75	-456.97	0	-1313.73	2	-58.96	2	0.00	2.35	0.00
40	40	46.70	-950.15	37.58	-219.51	0	-835.99	2	-233.25	2	0.00	2.35	0.00
40	41	48.15	-950.15	43.84	-278.55	0	-896.74	2	-131.89	2	0.00	2.35	0.00
41	41	48.15	-950.15	43.84	-278.55	0	-896.74	2	-131.89	2	0.00	2.35	0.00
41	42	49.60	-950.15	50.11	-346.65	0	-966.82	2	-14.98	2	0.00	2.35	0.00
42	42	49.60	-512.85	50.11	-49.28	0	-380.02	2	-244.70	2	0.00	2.35	0.00
42	43	51.05	-512.85	56.37	-126.46	0	-459.44	2	-112.20	2	0.00	2.35	0.00
43	43	51.05	-512.85	56.37	-126.46	0	-459.44	2	-112.20	2	0.00	2.35	0.00
43	44	51.50	-512.85	58.31	-152.27	0	-486.00	2	-67.89	2	0.00	2.35	0.00
44	44	51.50	0.00	58.31	63.19	0	65.03	2	-108.48	2	0.00	2.35	0.00
44	45	52.50	0.00	68.07	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	1045	52.50	0.00	-68.07	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	46	53.50	0.00	-58.31	63.19	0	65.03	2	-108.48	2	0.00	2.35	0.00
46	46	53.50	-512.85	-58.31	-152.27	0	-486.00	2	-67.89	2	0.00	2.35	0.00
46	47	53.95	-512.85	-56.37	-126.46	0	-459.44	2	-112.20	2	0.00	2.35	0.00
47	47	53.95	-512.85	-56.37	-126.46	0	-459.44	2	-112.20	2	0.00	2.35	0.00
47	48	55.40	-512.85	-50.11	-49.28	0	-380.02	2	-244.70	2	0.00	2.35	0.00
48	48	55.40	-950.15	-50.11	-346.65	0	-966.82	2	-14.98	2	0.00	2.35	0.00
48	49	56.85	-950.15	-43.84	-278.55	0	-896.74	2	-131.89	2	0.00	2.35	0.00
49	49	56.85	-950.15	-43.84	-278.55	0	-896.74	2	-131.89	2	0.00	2.35	0.00
49	50	58.30	-950.15	-37.58	-219.51	0	-835.99	2	-233.25	2	0.00	2.35	0.00
50	50	58.30	-1313.61	-62.75	-456.97	0	-1313.73	2	-58.96	2	0.00	2.35	0.00
50	51	59.75	-1313.75	-56.48	-370.23	0	-1224.55	2	-207.97	2	0.00	2.35	0.00
51	51	59.75	-1313.75	-56.48	-370.23	0	-1383.48	2	-224.07	2	0.00	2.35	0.00
51	52	61.20	-1313.85	-50.22	-292.56	0	-1299.16	2	-382.99	2	0.00	2.35	0.00
52	52	61.20	-1314.57	-25.05	-292.68	0	-1299.83	2	-383.27	2	0.00	2.35	0.00
52	53	62.65	-1314.57	-18.79	-260.90	0	-1265.30	2	-448.26	2	0.00	2.35	0.00
53	53	62.65	-1314.57	-18.79	-260.90	0	-1265.30	2	-448.26	2	0.00	2.35	0.00
53	54	64.10	-1314.57	-12.53	-238.20	0	-1240.63	2	-494.68	2	0.00	2.35	0.00
54	54	64.10	-1314.57	-12.53	-238.20	0	-1240.63	2	-494.68	2	0.00	2.35	0.00
54	55	65.55	-1314.57	-6.26	-224.58	0	-1225.83	2	-522.53	2	0.00	2.35	0.00
55	55	65.55	-1314.57	-6.26	-224.58	0	-1225.83	2	-522.53	2	0.00	2.35	0.00
55	56	67.00	-1314.57	0.00	-220.03	0	-1220.88	2	-531.83	2	0.00	2.35	0.00
56	56	67.00	-1314.57	0.00	-220.03	0	-1220.88	2	-531.83	2	0.00	2.35	0.00
56	57	68.45	-1314.57	6.26	-224.58	0	-1225.83	2	-522.53	2	0.00	2.35	0.00
57	57	68.45	-1314.57	6.26	-224.58	0	-1225.83	2	-522.53	2	0.00	2.35	0.00
57	58	69.90	-1314.57	12.53	-238.20	0	-1240.63	2	-494.68	2	0.00	2.35	0.00
58	58	69.90	-1314.57	12.53	-238.20	0	-1240.63	2	-494.68	2	0.00	2.35	0.00
58	59	71.35	-1314.57	18.79	-260.90	0	-1265.30	2	-448.26	2	0.00	2.35	0.00
59	59	71.35	-1314.57	18.79	-260.90	0	-1265.30	2	-448.26	2	0.00	2.35	0.00
59	60	72.80	-1314.57	25.05	-292.68	0	-1299.83	2	-383.27	2	0.00	2.35	0.00
60	60	72.80	-1313.85	50.22	-292.56	0	-1299.16	2	-382.99	2	0.00	2.35	0.00
60	61	74.25	-1313.75	56.48	-370.23	0	-1383.48	2	-224.07	2	0.00	2.35	0.00
61	61	74.25	-1313.75	56.48	-370.23	0	-1224.55	2	-207.97	2	0.00	2.35	0.00
61	62	75.70	-1313.61	62.75	-456.97	0	-1313.73	2	-58.96	2	0.00	2.35	0.00
62	62	75.70	-950.15	37.58	-219.51	0	-835.99	2	-233.25	2	0.00	2.35	0.00
62	63	77.15	-950.15	43.84	-278.55	0	-896.74	2	-131.89	2	0.00	2.35	0.00
63	63	77.15	-950.15	43.84	-278.55	0	-896.74	2	-131.89	2	0.00	2.35	0.00
63	64	78.60	-950.15	50.11	-346.65	0	-966.82	2	-14.98	2	0.00	2.35	0.00
64	64	78.60	-512.85	50.11	-49.28	0	-380.02	2	-244.70	2	0.00	2.35	0.00
64	65	80.05	-512.85	56.37	-126.46	0	-459.44	2	-112.20	2	0.00	2.35	0.00
65	65	80.05	-512.85	56.37	-126.46	0	-459.44	2	-112.20	2	0.00	2.35	0.00
65	66	80.50	-512.85	58.31	-152.27	0	-486.00	2	-67.89	2	0.00	2.35	0.00
66	66	80.50	0.00	58.31	63.19	0	65.03	2	-108.48	2	0.00	2.35	0.00
66	67	81.50	0.00	68.07	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	1067	81.50	0.00	-73.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	68	82.50	0.00	-63.71	68.59	0	70.58	2	-117.75	2	0.00	2.35	0.00
68	68	82.50	-585.73	-63.71	-197.89	0	-579.74	2	-36.38	2	0.00	2.35	0.00
68	69	83.08	-585.73	-61.23	-161.97	0	-542.77	2	-98.05	2	0.00	2.35	0.00
69	69	83.08	-585.73	-61.23	-161.97	0	-542.77	2	-98.05	2	0.00	2.35	0.00
69	70	84.65	-585.73	-54.42	-70.91	0	-449.07	2	-254.38	2	0.00	2.35	0.00
70	70	84.65	-1095.92	-54.42	-417.84	0	-1133.67	2	-13.63	2	0.00	2.35	0.00
70	71	86.23	-1095.92	-47.62	-337.47	0	-1050.97	2	-124.35	2	0.00	2.35	0.00
71	71	86.23	-1095.92	-47.62	-337.47	0	-1050.97	2	-124.35	2	0.00	2.35	0.00
71	72	87.80	-1095.92	-40.82	-267.83	0	-979.31	2	-243.90	2	0.00	2.35	0.00
72	72	87.80	-1605.14	-69.12	-600.33	0	-1648.44	2	-0.05	2	0.00	2.35	0.00
72	73	89.38	-1605.27	-62.31	-496.44	0	-1541.62	2	-178.48	2	0.00	2.35	0.00
73	73	89.38	-1605.27	-62.31	-496.44	0	-1738.36	2	-183.69	2	0.00	2.35	0.00
73	74	90.95	-1605.38	-55.51	-403.27	0	-1637.20	2	-374.31	2	0.00	2.35	0.00
74	74	90.95	-1606.11	-27.21	-403.40	0	-1637.88	2	-374.58	2	0.00	2.35	0.00
74	75	92.53	-1606.11	-20.40	-365.90	0	-1597.13	2	-451.26	2	0.00	2.35	0.00
75	75	92.53	-1606.11	-20.40	-365.90	0	-1597.13	2	-451.26	2	0.00	2.35	0.00
75	76	94.10	-1606.11	-13.60	-339.11	0	-1568.02	2	-506.05	2	0.00	2.35	0.00
76	76	94.10	-1606.11	-13.60	-339.11	0	-1568.02	2	-506.05	2	0.00	2.35	0.00
76	77	95.68	-1606.11	-6.80	-323.04	0	-1550.56	2	-538.91	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:

CONST1.F2.T0.MZ+

strucción sin gradiente en fase constructiva 2

[1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas

Coef. exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.58	-1606.11	-6.80	-323.04	0	-1550.56	2	-538.91	2	0.00	2.35	0.00
77	78	97.25	-1606.11	0.00	-317.69	0	-1544.74	2	-549.85	2	0.00	2.35	0.00
78	78	97.25	-1606.11	0.00	-317.69	0	-1544.74	2	-549.85	2	0.00	2.35	0.00
78	79	98.83	-1606.11	6.80	-323.04	0	-1550.56	2	-538.91	2	0.00	2.35	0.00
79	79	98.83	-1606.11	6.80	-323.04	0	-1550.56	2	-538.91	2	0.00	2.35	0.00
79	80	100.40	-1606.11	13.60	-339.11	0	-1568.02	2	-506.05	2	0.00	2.35	0.00
80	80	100.40	-1606.11	13.60	-339.11	0	-1568.02	2	-506.05	2	0.00	2.35	0.00
80	81	101.98	-1606.11	20.40	-365.90	0	-1597.13	2	-451.26	2	0.00	2.35	0.00
81	81	101.98	-1606.11	20.40	-365.90	0	-1597.13	2	-451.26	2	0.00	2.35	0.00
81	82	103.55	-1606.11	27.21	-403.40	0	-1637.88	2	-374.58	2	0.00	2.35	0.00
82	82	103.55	-1605.38	55.51	-403.27	0	-1637.20	2	-374.31	2	0.00	2.35	0.00
82	83	105.13	-1605.27	62.31	-496.44	0	-1738.36	2	-183.69	2	0.00	2.35	0.00
83	83	105.13	-1605.27	62.31	-496.44	0	-1541.62	2	-178.48	2	0.00	2.35	0.00
83	84	106.70	-1605.14	69.12	-600.33	0	-1648.44	2	-0.05	2	0.00	2.35	0.00
84	84	106.70	-1095.92	40.82	-267.83	0	-979.31	2	-243.90	2	0.00	2.35	0.00
84	85	108.28	-1095.92	47.62	-337.47	0	-1050.97	2	-124.35	2	0.00	2.35	0.00
85	85	108.28	-1095.92	47.62	-337.47	0	-1050.97	2	-124.35	2	0.00	2.35	0.00
85	86	109.85	-1095.92	54.42	-417.84	0	-1133.67	2	13.63	2	0.00	2.35	0.00
86	86	109.85	-585.73	54.42	-70.91	0	-449.07	2	-254.38	2	0.00	2.35	0.00
86	87	111.43	-585.73	61.23	-161.97	0	-542.77	2	-98.05	2	0.00	2.35	0.00
87	87	111.43	-585.73	61.23	-161.97	0	-542.77	2	-98.05	2	0.00	2.35	0.00
87	88	112.00	-585.73	63.71	-197.90	0	-579.75	2	-36.36	2	0.00	2.35	0.00
88	88	112.00	0.00	63.71	68.58	0	70.57	2	-117.74	2	0.00	2.35	0.00
88	89	113.00	0.00	73.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	1089	113.00	0.00	-73.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	90	114.00	0.00	-63.71	68.59	0	70.58	2	-117.75	2	0.00	2.35	0.00
90	90	114.00	-585.73	-63.71	-197.89	0	-579.74	2	-36.38	2	0.00	2.35	0.00
90	91	114.58	-585.73	-61.23	-161.97	0	-542.77	2	-98.05	2	0.00	2.35	0.00
91	91	114.58	-585.73	-61.23	-161.97	0	-542.77	2	-98.05	2	0.00	2.35	0.00
91	92	116.15	-585.73	-54.42	-70.91	0	-449.07	2	-254.38	2	0.00	2.35	0.00
92	92	116.15	-1095.92	-54.42	-417.84	0	-1133.67	2	13.63	2	0.00	2.35	0.00
92	93	117.73	-1095.92	-47.62	-337.47	0	-1050.97	2	-124.35	2	0.00	2.35	0.00
93	93	117.73	-1095.92	-47.62	-337.47	0	-1050.97	2	-124.35	2	0.00	2.35	0.00
93	94	119.30	-1095.92	-40.82	-267.83	0	-979.31	2	-243.90	2	0.00	2.35	0.00
94	94	119.30	-1605.14	-69.12	-600.33	0	-1648.44	2	-0.05	2	0.00	2.35	0.00
94	95	120.88	-1605.27	-62.31	-496.44	0	-1541.62	2	-178.48	2	0.00	2.35	0.00
95	95	120.88	-1605.27	-62.31	-496.44	0	-1738.36	2	-183.69	2	0.00	2.35	0.00
95	96	122.45	-1605.38	-55.51	-403.26	0	-1637.18	2	-374.33	2	0.00	2.35	0.00
96	96	122.45	-1606.11	-27.21	-403.39	0	-1637.87	2	-374.60	2	0.00	2.35	0.00
96	97	124.03	-1606.11	-20.40	-365.89	0	-1597.12	2	-451.28	2	0.00	2.35	0.00
97	97	124.03	-1606.11	-20.40	-365.89	0	-1597.12	2	-451.28	2	0.00	2.35	0.00
97	98	125.60	-1606.11	-13.60	-339.11	0	-1568.02	2	-506.05	2	0.00	2.35	0.00
98	98	125.60	-1606.11	-13.60	-339.11	0	-1568.02	2	-506.05	2	0.00	2.35	0.00
98	99	127.18	-1606.11	-6.80	-323.03	0	-1550.55	2	-538.93	2	0.00	2.35	0.00
99	99	127.18	-1606.11	-6.80	-323.03	0	-1550.55	2	-538.93	2	0.00	2.35	0.00
99	100	128.75	-1606.11	0.00	-317.68	0	-1544.73	2	-549.87	2	0.00	2.35	0.00
100	100	128.75	-1606.11	0.00	-317.68	0	-1544.73	2	-549.87	2	0.00	2.35	0.00
100	101	130.33	-1606.11	6.80	-323.03	0	-1550.55	2	-538.93	2	0.00	2.35	0.00
101	101	130.33	-1606.11	6.80	-323.03	0	-1550.55	2	-538.93	2	0.00	2.35	0.00
101	102	131.90	-1606.11	13.60	-339.11	0	-1568.02	2	-506.05	2	0.00	2.35	0.00
102	102	131.90	-1606.11	13.60	-339.11	0	-1568.02	2	-506.05	2	0.00	2.35	0.00
102	103	133.48	-1606.11	20.40	-365.90	0	-1597.13	2	-451.26	2	0.00	2.35	0.00
103	103	133.48	-1606.11	20.40	-365.90	0	-1597.13	2	-451.26	2	0.00	2.35	0.00
103	104	135.05	-1606.11	27.21	-403.39	0	-1637.87	2	-374.60	2	0.00	2.35	0.00
104	104	135.05	-1605.38	55.51	-403.26	0	-1637.18	2	-374.33	2	0.00	2.35	0.00
104	105	136.63	-1605.27	62.31	-496.44	0	-1738.36	2	-183.69	2	0.00	2.35	0.00
105	105	136.63	-1605.27	62.31	-496.44	0	-1541.62	2	-178.48	2	0.00	2.35	0.00
105	106	138.20	-1605.14	69.12	-600.33	0	-1648.44	2	-0.05	2	0.00	2.35	0.00
106	106	138.20	-1095.92	40.82	-267.83	0	-979.31	2	-243.90	2	0.00	2.35	0.00
106	107	139.78	-1095.92	47.62	-337.47	0	-1050.97	2	-124.35	2	0.00	2.35	0.00
107	107	139.78	-1095.92	47.62	-337.47	0	-1050.97	2	-124.35	2	0.00	2.35	0.00
107	108	141.35	-1095.92	54.42	-417.84	0	-1133.67	2	13.63	2	0.00	2.35	0.00
108	108	141.35	-585.73	54.42	-70.91	0	-449.07	2	-254.38	2	0.00	2.35	0.00
108	109	142.93	-585.73	61.23	-161.97	0	-542.77	2	-98.05	2	0.00	2.35	0.00
109	109	142.93	-585.73	61.23	-161.97	0	-542.77	2	-98.05	2	0.00	2.35	0.00
109	110	143.50	-585.73	63.71	-197.90	0	-579.75	2	-36.36	2	0.00	2.35	0.00
110	110	143.50	0.00	63.71	68.58	0	70.57	2	-117.74	2	0.00	2.35	0.00
110	111	144.50	0.00	73.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
111	1111	144.50	0.00	-56.22	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
11	112	145.50	0.00	-46.46	51.35	0	52.84	2	-88.16	2	0.00	2.35	0.00
12	112	145.50	-476.41	-46.46	-138.60	0	-448.53	2	-67.95	2	0.00	2.35	0.00
112	113	145.68	-476.41	-45.70	-130.55	0	-440.25	2	-81.77	2	0.00	2.35	0.00
113	113	145.68	-476.41	-45.70	-130.55	0	-440.25	2	-81.77	2	0.00	2.35	0.00
113	114	146.85	-476.41	-40.63	-79.82	0	-388.05	2	-168.87	2	0.00	2.35	0.00
114	114	146.85	-877.27	-40.63	-352.41	0	-925.95	2	-41.70	2	0.00	2.35	0.00
114	115	148.03	-877.27	-35.56	-307.66	0	-879.90	2	-35.12	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:

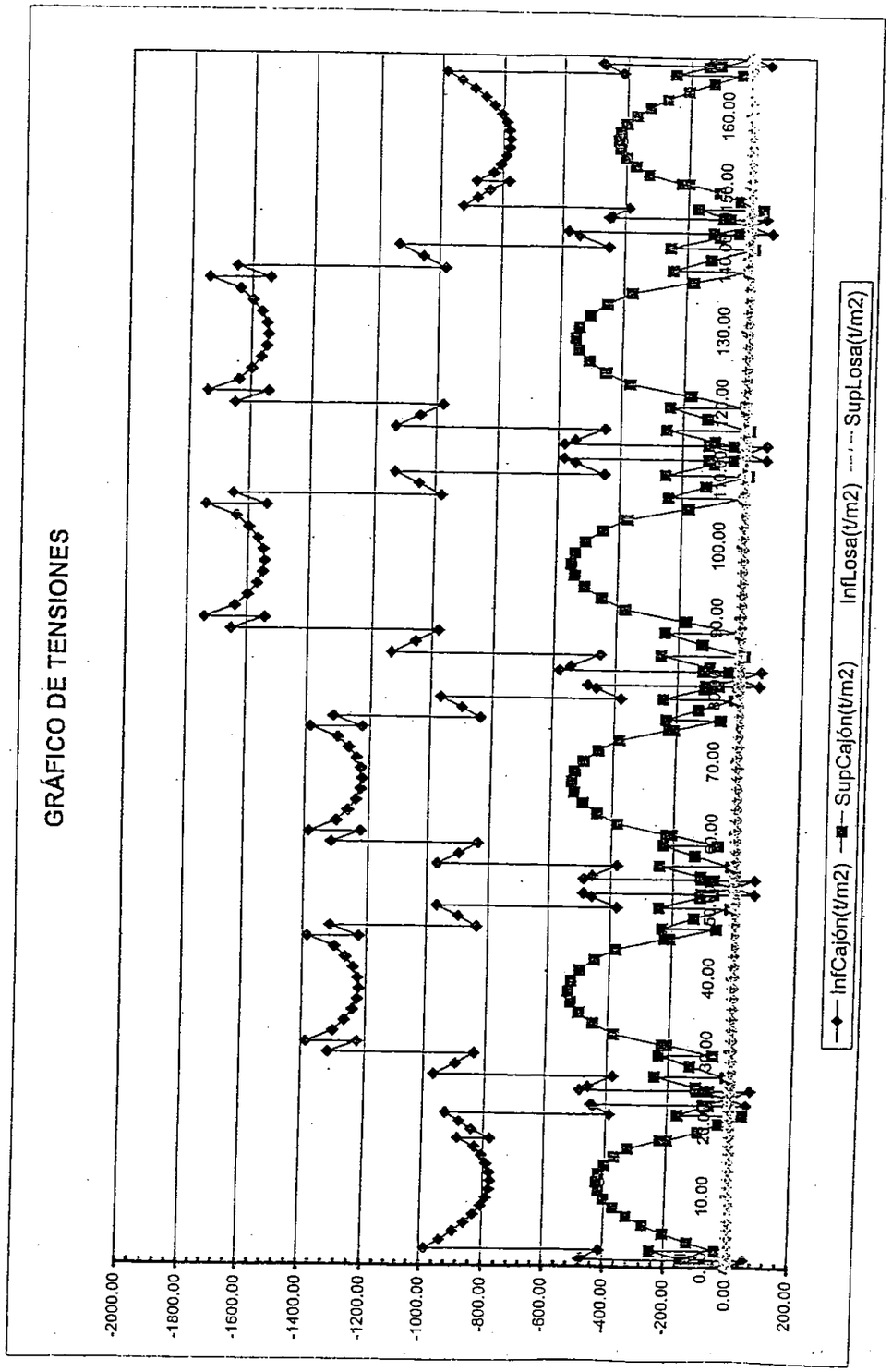
CONST1.F2.T0.MZ+

Construcción sin gradiente en fase constructiva 2

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas

oef. exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.27	-35.56	-307.66	0	-879.90	2	-35.12	2	0.00	2.35	0.00
115	116	149.20	-877.27	-30.48	-268.86	0	-839.97	2	-101.73	2	0.00	2.35	0.00
116	116	149.20	-876.30	-51.20	-268.73	0	-839.22	2	-101.33	2	0.00	2.35	0.00
116	117	150.38	-876.42	-46.13	-211.35	0	-780.24	2	-199.93	2	0.00	2.35	0.00
117	117	150.38	-876.42	-46.13	-211.35	0	-884.22	2	-222.36	2	0.00	2.35	0.00
117	118	151.55	-876.54	-41.05	-159.93	0	-828.43	2	-327.60	2	0.00	2.35	0.00
118	118	151.55	-877.27	-20.33	-160.04	0	-829.10	2	-327.91	2	0.00	2.35	0.00
118	119	152.73	-877.27	-15.25	-139.14	0	-806.39	2	-370.65	2	0.00	2.35	0.00
119	119	152.73	-877.27	-15.25	-139.14	0	-806.39	2	-370.65	2	0.00	2.35	0.00
119	120	153.90	-877.27	-10.17	-124.20	0	-790.15	2	-401.20	2	0.00	2.35	0.00
120	120	153.90	-877.27	-10.17	-124.20	0	-790.15	2	-401.20	2	0.00	2.35	0.00
120	121	155.08	-877.27	-5.10	-115.23	0	-780.40	2	-419.54	2	0.00	2.35	0.00
121	121	155.08	-877.27	-5.10	-115.23	0	-780.40	2	-419.54	2	0.00	2.35	0.00
121	122	156.25	-877.27	-0.03	-112.22	0	-777.13	2	-425.70	2	0.00	2.35	0.00
122	122	156.25	-877.27	-0.03	-112.22	0	-777.13	2	-425.70	2	0.00	2.35	0.00
122	123	157.43	-877.27	5.05	-115.17	0	-780.34	2	-419.66	2	0.00	2.35	0.00
123	123	157.43	-877.27	5.05	-115.17	0	-780.34	2	-419.66	2	0.00	2.35	0.00
123	124	158.60	-877.27	10.12	-124.08	0	-790.02	2	-401.44	2	0.00	2.35	0.00
124	124	158.60	-877.27	10.12	-124.08	0	-790.02	2	-401.44	2	0.00	2.35	0.00
124	125	159.78	-877.27	15.20	-138.96	0	-806.19	2	-371.01	2	0.00	2.35	0.00
125	125	159.78	-877.27	15.20	-138.96	0	-806.19	2	-371.01	2	0.00	2.35	0.00
125	126	160.95	-877.27	20.27	-159.80	0	-828.84	2	-328.40	2	0.00	2.35	0.00
126	126	160.95	-877.27	20.27	-159.80	0	-828.84	2	-328.40	2	0.00	2.35	0.00
126	127	162.13	-877.27	25.35	-186.60	0	-857.96	2	-273.59	2	0.00	2.35	0.00
127	127	162.13	-877.27	25.35	-186.60	0	-857.96	2	-273.59	2	0.00	2.35	0.00
127	128	163.30	-877.27	30.42	-219.37	0	-893.57	2	-206.58	2	0.00	2.35	0.00
128	128	163.30	-877.27	30.42	-219.37	0	-893.57	2	-206.58	2	0.00	2.35	0.00
128	129	164.48	-877.27	35.49	-258.09	0	-935.65	2	-127.40	2	0.00	2.35	0.00
129	129	164.48	-877.27	35.49	-258.09	0	-935.65	2	-127.40	2	0.00	2.35	0.00
129	130	165.65	-877.27	40.58	-302.78	0	-984.21	2	-36.01	2	0.00	2.35	0.00
130	130	165.65	-476.41	40.58	-52.65	0	-413.01	2	-248.14	2	0.00	2.35	0.00
130	131	166.83	-476.41	45.65	-103.30	0	-468.05	2	-144.57	2	0.00	2.35	0.00
131	131	166.83	-476.41	45.65	-103.30	0	-468.05	2	-144.57	2	0.00	2.35	0.00
131	132	167.00	-476.41	46.40	-111.37	0	-476.82	2	-128.06	2	0.00	2.35	0.00
132	132	167.00	0.00	46.40	51.91	0	56.41	2	-106.15	2	0.00	2.35	0.00
132	133	168.00	0.00	57.44	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F3.T0.MZ+
Construcción sin gradiente en fase constructiva 3
1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV
Ref. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-91.69	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-77.67	84.69	0	92.03	2	-173.19	2	0.00	2.35	0.00
2	2	1.00	-476.41	-77.67	-78.59	0	-441.20	2	-195.10	2	0.00	2.35	0.00
2	3	1.18	-476.41	-76.40	-65.11	0	-426.55	2	-222.66	2	0.00	2.35	0.00
3	3	1.18	-476.41	-76.40	-65.11	0	-426.55	2	-222.66	2	0.00	2.35	0.00
3	4	2.35	-476.41	-67.82	19.60	0	-334.50	2	-395.89	2	0.00	2.35	0.00
4	4	2.35	-877.27	-67.82	-230.53	0	-905.70	2	-183.76	2	0.00	2.35	0.00
4	5	3.53	-877.27	-59.23	-155.88	0	-824.58	2	-336.41	2	0.00	2.35	0.00
5	5	3.53	-877.27	-59.23	-155.88	0	-824.58	2	-336.41	2	0.00	2.35	0.00
5	6	4.70	-877.27	-50.66	-91.33	0	-754.43	2	-468.42	2	0.00	2.35	0.00
6	6	4.70	-877.27	-50.66	-91.33	0	-754.43	2	-468.42	2	0.00	2.35	0.00
6	7	5.88	-877.27	-42.08	-36.84	0	-695.22	2	-579.85	2	0.00	2.35	0.00
7	7	5.88	-877.27	-42.08	-36.84	0	-695.22	2	-579.85	2	0.00	2.35	0.00
7	8	7.05	-877.27	-33.50	7.56	0	-646.97	2	-670.64	2	0.00	2.35	0.00
8	8	7.05	-877.27	-33.50	7.56	0	-646.97	2	-670.64	2	0.00	2.35	0.00
8	9	8.23	-877.27	-24.92	41.88	0	-609.68	2	-740.82	2	0.00	2.35	0.00
9	9	8.23	-877.27	-24.92	41.88	0	-609.68	2	-740.82	2	0.00	2.35	0.00
9	10	9.40	-877.27	-16.34	66.13	0	-583.32	2	-790.41	2	0.00	2.35	0.00
10	10	9.40	-877.27	-16.34	66.13	0	-583.32	2	-790.41	2	0.00	2.35	0.00
10	11	10.58	-877.27	-7.77	80.29	0	-567.94	2	-819.37	2	0.00	2.35	0.00
11	11	10.58	-877.27	-7.77	80.29	0	-567.94	2	-819.37	2	0.00	2.35	0.00
11	12	11.75	-877.27	0.82	84.37	0	-563.50	2	-827.71	2	0.00	2.35	0.00
12	12	11.75	-877.27	0.82	84.37	0	-563.50	2	-827.71	2	0.00	2.35	0.00
12	13	12.93	-877.27	9.39	78.38	0	-570.01	2	-815.46	2	0.00	2.35	0.00
13	13	12.93	-877.27	9.39	78.38	0	-570.01	2	-815.46	2	0.00	2.35	0.00
13	14	14.10	-877.27	17.97	62.31	0	-587.48	2	-782.60	2	0.00	2.35	0.00
14	14	14.10	-877.27	17.97	62.31	0	-587.48	2	-782.60	2	0.00	2.35	0.00
14	15	15.28	-877.27	26.55	36.15	0	-615.90	2	-729.11	2	0.00	2.35	0.00
15	15	15.28	-877.27	26.55	36.15	0	-615.90	2	-729.11	2	0.00	2.35	0.00
15	16	16.45	-877.27	35.13	-0.09	0	-655.28	2	-655.00	2	0.00	2.35	0.00
16	16	16.45	-876.19	55.85	0.02	0	-654.36	2	-654.43	2	0.00	2.35	0.00
16	17	17.63	-875.99	64.43	-70.84	0	-731.22	2	-509.36	2	0.00	2.35	0.00
17	17	17.63	-875.99	64.43	-70.84	0	-635.39	2	-440.86	2	0.00	2.35	0.00
17	18	18.80	-875.78	73.01	-151.80	0	-718.56	2	-301.74	2	0.00	2.35	0.00
18	18	18.80	-877.27	52.29	-151.93	0	-719.64	2	-302.48	2	0.00	2.35	0.00
18	19	19.98	-877.27	60.88	-218.42	0	-788.06	2	-188.33	2	0.00	2.35	0.00
19	19	19.98	-877.27	60.88	-218.42	0	-788.06	2	-188.33	2	0.00	2.35	0.00
19	20	21.15	-877.27	65.95	-292.92	0	-864.73	2	-60.43	2	0.00	2.35	0.00
20	20	21.15	-476.41	65.95	-20.33	0	-326.83	2	-271.00	2	0.00	2.35	0.00
20	21	22.33	-476.41	71.02	-100.80	0	-409.64	2	-132.85	2	0.00	2.35	0.00
21	21	22.33	-476.41	71.02	-100.80	0	-409.64	2	-132.85	2	0.00	2.35	0.00
21	22	22.50	-476.41	71.78	-113.29	0	-422.49	2	-111.41	2	0.00	2.35	0.00
22	22	22.50	0.00	71.78	76.66	0	78.89	2	-131.61	2	0.00	2.35	0.00
22	23	23.50	0.00	81.54	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
23	1023	23.50	0.00	-98.34	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
23	24	24.50	0.00	-88.58	93.46	0	96.17	2	-160.45	2	0.00	2.35	0.00
24	24	24.50	-512.85	-88.58	-122.00	0	-454.85	2	-119.86	2	0.00	2.35	0.00
24	25	24.95	-512.85	-86.64	-82.57	0	-414.27	2	-187.55	2	0.00	2.35	0.00
25	25	24.95	-512.85	-86.64	-82.57	0	-414.27	2	-187.55	2	0.00	2.35	0.00
25	26	26.40	-512.85	-80.38	38.50	0	-289.69	2	-395.40	2	0.00	2.35	0.00
26	26	26.40	-950.15	-80.38	-258.87	0	-876.49	2	-165.68	2	0.00	2.35	0.00
26	27	27.85	-950.15	-74.11	-146.88	0	-761.25	2	-357.94	2	0.00	2.35	0.00
27	27	27.85	-950.15	-74.11	-146.88	0	-761.25	2	-357.94	2	0.00	2.35	0.00
27	28	29.30	-950.15	-63.53	-47.09	0	-658.56	2	-529.26	2	0.00	2.35	0.00
28	28	29.30	-1313.11	-88.69	-284.55	0	-1135.98	2	-354.65	2	0.00	2.35	0.00
28	29	30.75	-1313.33	-78.10	-163.32	0	-1011.37	2	-562.92	2	0.00	2.35	0.00
29	29	30.75	-1313.33	-78.10	-163.32	0	-1158.33	2	-646.88	2	0.00	2.35	0.00
29	30	32.20	-1313.53	-67.51	-57.44	0	-1043.41	2	-863.55	2	0.00	2.35	0.00
30	30	32.20	-1314.57	-42.35	-57.56	0	-1044.33	2	-864.08	2	0.00	2.35	0.00
30	31	33.65	-1314.57	-31.76	-3.83	0	-985.94	2	-973.95	2	0.00	2.35	0.00
31	31	33.65	-1314.57	-31.76	-3.83	0	-985.94	2	-973.95	2	0.00	2.35	0.00
31	32	35.10	-1314.57	-21.18	34.54	0	-944.25	2	-1052.42	2	0.00	2.35	0.00
32	32	35.10	-1314.57	-21.18	34.54	0	-944.25	2	-1052.42	2	0.00	2.35	0.00
32	33	36.55	-1314.57	-10.58	57.57	0	-919.22	2	-1099.51	2	0.00	2.35	0.00
33	33	36.55	-1314.57	-10.58	57.57	0	-919.22	2	-1099.51	2	0.00	2.35	0.00
33	34	38.00	-1314.57	0.00	65.25	0	-910.88	2	-1115.22	2	0.00	2.35	0.00
34	34	38.00	-1314.57	0.00	65.25	0	-910.88	2	-1115.22	2	0.00	2.35	0.00
34	35	39.45	-1314.57	10.58	57.57	0	-919.22	2	-1099.51	2	0.00	2.35	0.00
35	35	39.45	-1314.57	10.58	57.57	0	-919.22	2	-1099.51	2	0.00	2.35	0.00
35	36	40.90	-1314.57	21.18	34.54	0	-944.25	2	-1052.42	2	0.00	2.35	0.00
36	36	40.90	-1314.57	21.18	34.54	0	-944.25	2	-1052.42	2	0.00	2.35	0.00
36	37	42.35	-1314.57	31.76	-3.83	0	-985.94	2	-973.95	2	0.00	2.35	0.00
37	37	42.35	-1314.57	31.76	-3.83	0	-985.94	2	-973.95	2	0.00	2.35	0.00
37	38	43.80	-1314.57	42.35	-57.56	0	-1044.33	2	-864.08	2	0.00	2.35	0.00
38	38	43.80	-1313.53	67.51	-57.44	0	-1043.41	2	-863.55	2	0.00	2.35	0.00
38	39	45.25	-1313.33	78.10	-163.32	0	-1158.33	2	-646.88	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F3.T0.MZ+
Construcción sin gradiente en fase constructiva 3
[1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1313.33	78.10	-163.32	0	-1011.37	2	-562.92	2	0.00	2.35	0.00
39	40	46.70	-1313.11	88.69	-284.55	0	-1135.98	2	-354.65	2	0.00	2.35	0.00
40	40	46.70	-950.15	63.53	-47.09	0	-658.56	2	-529.26	2	0.00	2.35	0.00
40	41	48.15	-950.15	74.11	-146.88	0	-761.25	2	-357.94	2	0.00	2.35	0.00
41	41	48.15	-950.15	74.11	-146.88	0	-761.25	2	-357.94	2	0.00	2.35	0.00
41	42	49.60	-950.15	80.38	-258.87	0	-876.49	2	-165.68	2	0.00	2.35	0.00
42	42	49.60	-512.85	80.38	38.50	0	-289.69	2	-395.40	2	0.00	2.35	0.00
42	43	51.05	-512.85	86.64	-82.57	0	-414.27	2	-187.55	2	0.00	2.35	0.00
43	43	51.05	-512.85	86.64	-82.57	0	-414.27	2	-187.55	2	0.00	2.35	0.00
43	44	51.50	-512.85	88.58	-122.00	0	-454.85	2	-119.86	2	0.00	2.35	0.00
44	44	51.50	0.00	88.58	93.46	0	96.17	2	-160.45	2	0.00	2.35	0.00
44	45	52.50	0.00	98.34	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	1045	52.50	0.00	-98.34	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
45	46	53.50	0.00	-88.58	93.46	0	96.17	2	-160.45	2	0.00	2.35	0.00
46	46	53.50	-512.85	-88.58	-122.00	0	-454.85	2	-119.86	2	0.00	2.35	0.00
46	47	53.95	-512.85	-86.64	-82.57	0	-414.27	2	-187.55	2	0.00	2.35	0.00
47	47	53.95	-512.85	-86.64	-82.57	0	-414.27	2	-187.55	2	0.00	2.35	0.00
47	48	55.40	-512.85	-80.38	38.50	0	-289.69	2	-395.40	2	0.00	2.35	0.00
48	48	55.40	-950.15	-80.38	-258.87	0	-876.49	2	-165.68	2	0.00	2.35	0.00
48	49	56.85	-950.15	-74.11	-146.88	0	-761.25	2	-357.94	2	0.00	2.35	0.00
49	49	56.85	-950.15	-74.11	-146.88	0	-761.25	2	-357.94	2	0.00	2.35	0.00
49	50	58.30	-950.15	-63.52	-47.09	0	-658.56	2	-529.26	2	0.00	2.35	0.00
50	50	58.30	-1313.11	-88.69	-284.55	0	-1135.98	2	-354.65	2	0.00	2.35	0.00
50	51	59.75	-1313.33	-78.10	-163.32	0	-1011.37	2	-562.92	2	0.00	2.35	0.00
51	51	59.75	-1313.33	-78.10	-163.32	0	-1158.33	2	-646.88	2	0.00	2.35	0.00
51	52	61.20	-1313.53	-67.51	-57.44	0	-1043.41	2	-863.55	2	0.00	2.35	0.00
52	52	61.20	-1314.57	-42.35	-57.56	0	-1044.33	2	-864.08	2	0.00	2.35	0.00
52	53	62.65	-1314.57	-31.76	-3.83	0	-985.94	2	-973.95	2	0.00	2.35	0.00
53	53	62.65	-1314.57	-31.76	-3.83	0	-985.94	2	-973.95	2	0.00	2.35	0.00
53	54	64.10	-1314.57	-21.18	34.54	0	-944.25	2	-1052.42	2	0.00	2.35	0.00
54	54	64.10	-1314.57	-21.18	34.54	0	-944.25	2	-1052.42	2	0.00	2.35	0.00
54	55	65.55	-1314.57	-10.58	57.57	0	-919.22	2	-1099.51	2	0.00	2.35	0.00
55	55	65.55	-1314.57	-10.58	57.57	0	-919.22	2	-1099.51	2	0.00	2.35	0.00
55	56	67.00	-1314.57	0.00	65.25	0	-910.88	2	-1115.22	2	0.00	2.35	0.00
56	56	67.00	-1314.57	0.00	65.25	0	-910.88	2	-1115.22	2	0.00	2.35	0.00
56	57	68.45	-1314.57	10.58	57.57	0	-919.22	2	-1099.51	2	0.00	2.35	0.00
57	57	68.45	-1314.57	10.58	57.57	0	-919.22	2	-1099.51	2	0.00	2.35	0.00
57	58	69.90	-1314.57	21.18	34.54	0	-944.25	2	-1052.42	2	0.00	2.35	0.00
58	58	69.90	-1314.57	21.18	34.54	0	-944.25	2	-1052.42	2	0.00	2.35	0.00
58	59	71.35	-1314.57	31.76	-3.83	0	-985.94	2	-973.95	2	0.00	2.35	0.00
59	59	71.35	-1314.57	31.76	-3.83	0	-985.94	2	-973.95	2	0.00	2.35	0.00
59	60	72.80	-1314.57	42.35	-57.56	0	-1044.33	2	-864.08	2	0.00	2.35	0.00
60	60	72.80	-1313.53	67.51	-57.44	0	-1043.41	2	-863.55	2	0.00	2.35	0.00
60	61	74.25	-1313.33	78.10	-163.32	0	-1158.33	2	-646.88	2	0.00	2.35	0.00
61	61	74.25	-1313.33	78.10	-163.32	0	-1011.37	2	-562.92	2	0.00	2.35	0.00
62	62	75.70	-1313.11	88.69	-284.55	0	-1135.98	2	-354.65	2	0.00	2.35	0.00
62	62	75.70	-950.15	63.53	-47.09	0	-658.56	2	-529.26	2	0.00	2.35	0.00
62	63	77.15	-950.15	74.11	-146.88	0	-761.25	2	-357.94	2	0.00	2.35	0.00
63	63	77.15	-950.15	74.11	-146.88	0	-761.25	2	-357.94	2	0.00	2.35	0.00
63	64	78.60	-950.15	80.38	-258.87	0	-876.49	2	-165.68	2	0.00	2.35	0.00
64	64	78.60	-512.85	80.38	38.50	0	-289.69	2	-395.40	2	0.00	2.35	0.00
64	65	80.05	-512.85	86.64	-82.57	0	-414.27	2	-187.55	2	0.00	2.35	0.00
65	65	80.05	-512.85	86.64	-82.57	0	-414.27	2	-187.55	2	0.00	2.35	0.00
65	66	80.50	-512.85	88.58	-122.00	0	-454.85	2	-119.86	2	0.00	2.35	0.00
66	66	80.50	0.00	88.58	93.46	0	96.17	2	-160.45	2	0.00	2.35	0.00
66	67	81.50	0.00	98.34	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	1067	81.50	0.00	-106.35	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
67	68	82.50	0.00	-96.59	101.47	0	104.42	2	-174.20	2	0.00	2.35	0.00
68	68	82.50	-585.73	-96.59	-165.01	0	-545.90	2	-92.83	2	0.00	2.35	0.00
68	69	83.08	-585.73	-94.11	-110.19	0	-489.49	2	-186.94	2	0.00	2.35	0.00
69	69	83.08	-585.73	-94.11	-110.19	0	-489.49	2	-186.94	2	0.00	2.35	0.00
69	70	84.65	-585.73	-87.30	32.66	0	-342.49	2	-432.18	2	0.00	2.35	0.00
70	70	84.65	-1095.92	-87.30	-314.27	0	-1027.10	2	-164.18	2	0.00	2.35	0.00
70	71	86.23	-1095.92	-80.50	-182.12	0	-891.11	2	-391.05	2	0.00	2.35	0.00
71	71	86.23	-1095.92	-80.50	-182.12	0	-891.11	2	-391.05	2	0.00	2.35	0.00
71	72	87.80	-1095.92	-69.00	-64.40	0	-769.97	2	-593.15	2	0.00	2.35	0.00
72	72	87.80	-1604.64	-97.30	-396.90	0	-1438.78	2	-348.97	2	0.00	2.35	0.00
72	73	89.38	-1604.86	-85.79	-252.32	0	-1290.15	2	-597.32	2	0.00	2.35	0.00
73	73	89.38	-1604.86	-85.79	-252.32	0	-1472.78	2	-682.60	2	0.00	2.35	0.00
73	74	90.95	-1605.05	-74.29	-125.86	0	-1335.49	2	-941.35	2	0.00	2.35	0.00
74	74	90.95	-1606.11	-46.00	-125.99	0	-1336.43	2	-941.87	2	0.00	2.35	0.00
74	75	92.53	-1606.11	-34.49	-62.60	0	-1267.54	2	-1071.50	2	0.00	2.35	0.00
75	75	92.53	-1606.11	-34.49	-62.60	0	-1267.54	2	-1071.50	2	0.00	2.35	0.00
75	76	94.10	-1606.11	-22.99	-17.32	0	-1218.34	2	-1164.09	2	0.00	2.35	0.00
76	76	94.10	-1606.11	-22.99	-17.32	0	-1218.34	2	-1164.09	2	0.00	2.35	0.00
76	77	95.68	-1606.11	-11.50	9.84	0	-1188.82	2	-1219.64	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F3.T0.MZ+
Construcción sin gradiente en fase constructiva 3
1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV
ef exc

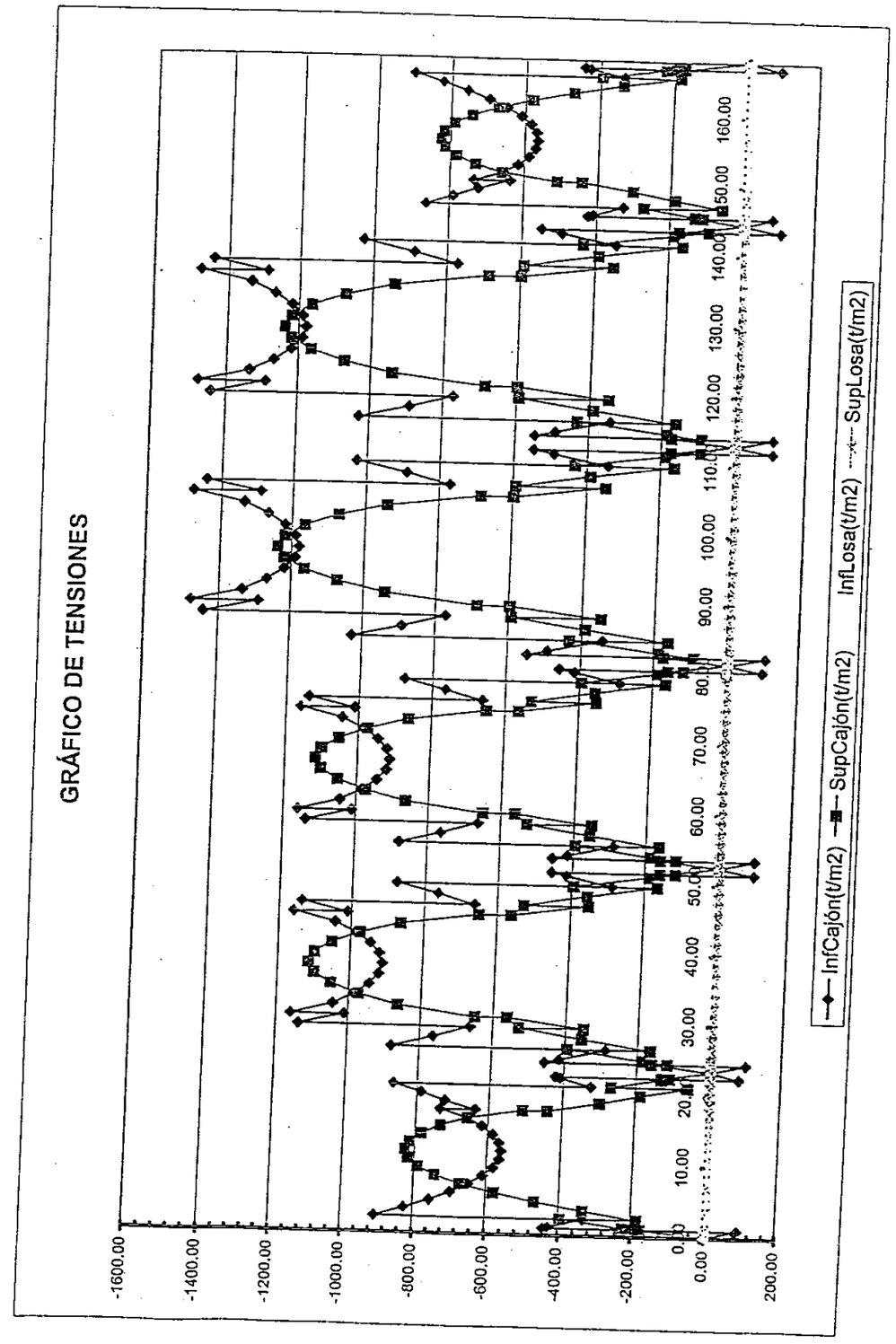
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1606.11	-11.50	9.84	0	-1188.82	2	-1219.64	2	0.00	2.35	0.00
77	78	97.25	-1606.11	0.00	18.89	0	-1178.99	2	-1238.14	2	0.00	2.35	0.00
78	78	97.25	-1606.11	0.00	18.89	0	-1178.99	2	-1238.14	2	0.00	2.35	0.00
78	79	98.83	-1606.11	11.50	9.84	0	-1188.82	2	-1219.64	2	0.00	2.35	0.00
79	79	98.83	-1606.11	11.50	9.84	0	-1188.82	2	-1219.64	2	0.00	2.35	0.00
79	80	100.40	-1606.11	22.99	-17.32	0	-1218.34	2	-1164.09	2	0.00	2.35	0.00
80	80	100.40	-1606.11	22.99	-17.32	0	-1218.34	2	-1164.09	2	0.00	2.35	0.00
80	81	101.98	-1606.11	34.49	-62.60	0	-1267.54	2	-1071.50	2	0.00	2.35	0.00
81	81	101.98	-1606.11	34.49	-62.60	0	-1267.54	2	-1071.50	2	0.00	2.35	0.00
81	82	103.55	-1606.11	46.00	-125.99	0	-1336.43	2	-941.87	2	0.00	2.35	0.00
82	82	103.55	-1605.05	74.29	-125.86	0	-1335.49	2	-941.35	2	0.00	2.35	0.00
82	83	105.13	-1604.86	85.79	-252.32	0	-1472.78	2	-682.60	2	0.00	2.35	0.00
83	83	105.13	-1604.86	85.79	-252.32	0	-1290.15	2	-597.32	2	0.00	2.35	0.00
83	84	106.70	-1604.64	97.30	-396.90	0	-1438.78	2	-348.97	2	0.00	2.35	0.00
84	84	106.70	-1095.92	69.00	-64.40	0	-769.97	2	-593.15	2	0.00	2.35	0.00
84	85	108.28	-1095.92	80.50	-182.12	0	-891.11	2	-391.05	2	0.00	2.35	0.00
85	85	108.28	-1095.92	80.50	-182.12	0	-891.11	2	-391.05	2	0.00	2.35	0.00
85	86	109.85	-1095.92	87.30	-314.27	0	-1027.10	2	-164.18	2	0.00	2.35	0.00
86	86	109.85	-585.73	87.30	32.66	0	-342.49	2	-432.18	2	0.00	2.35	0.00
86	87	111.43	-585.73	94.11	-110.19	0	-489.49	2	-186.94	2	0.00	2.35	0.00
87	87	111.43	-585.73	94.11	-110.19	0	-489.49	2	-186.94	2	0.00	2.35	0.00
87	88	112.00	-585.73	96.59	-165.03	0	-545.92	2	-92.79	2	0.00	2.35	0.00
88	88	112.00	0.00	96.59	101.45	0	104.40	2	-174.17	2	0.00	2.35	0.00
88	89	113.00	0.00	106.35	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	1089	113.00	0.00	-106.35	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
89	90	114.00	0.00	-96.59	101.47	0	104.42	2	-174.20	2	0.00	2.35	0.00
90	90	114.00	-585.73	-96.59	-165.01	0	-545.90	2	-92.83	2	0.00	2.35	0.00
90	91	114.58	-585.73	-94.11	-110.19	0	-489.49	2	-186.94	2	0.00	2.35	0.00
91	91	114.58	-585.73	-94.11	-110.19	0	-489.49	2	-186.94	2	0.00	2.35	0.00
91	92	116.15	-585.73	-87.30	32.66	0	-342.49	2	-432.18	2	0.00	2.35	0.00
92	92	116.15	-1095.92	-87.30	-314.27	0	-1027.10	2	-164.18	2	0.00	2.35	0.00
92	93	117.73	-1095.92	-80.50	-182.12	0	-891.11	2	-391.05	2	0.00	2.35	0.00
93	93	117.73	-1095.92	-80.50	-182.12	0	-891.11	2	-391.05	2	0.00	2.35	0.00
93	94	119.30	-1095.92	-69.00	-64.40	0	-769.97	2	-593.15	2	0.00	2.35	0.00
94	94	119.30	-1604.64	-97.30	-396.90	0	-1438.78	2	-348.97	2	0.00	2.35	0.00
94	95	120.88	-1604.86	-85.79	-252.32	0	-1290.15	2	-597.32	2	0.00	2.35	0.00
95	95	120.88	-1604.86	-85.79	-252.32	0	-1472.78	2	-682.60	2	0.00	2.35	0.00
95	96	122.45	-1605.05	-74.29	-125.85	0	-1335.48	2	-941.37	2	0.00	2.35	0.00
96	96	122.45	-1606.11	-46.00	-125.98	0	-1336.42	2	-941.89	2	0.00	2.35	0.00
96	97	124.03	-1606.11	-34.49	-62.59	0	-1267.53	2	-1071.52	2	0.00	2.35	0.00
97	97	124.03	-1606.11	-34.49	-62.59	0	-1267.53	2	-1071.52	2	0.00	2.35	0.00
97	98	125.60	-1606.11	-22.99	-17.32	0	-1218.34	2	-1164.09	2	0.00	2.35	0.00
98	98	125.60	-1606.11	-22.99	-17.32	0	-1218.34	2	-1164.09	2	0.00	2.35	0.00
98	99	127.18	-1606.11	-11.50	9.86	0	-1188.80	2	-1219.68	2	0.00	2.35	0.00
99	99	127.18	-1606.11	-11.50	9.86	0	-1188.80	2	-1219.68	2	0.00	2.35	0.00
99	100	128.75	-1606.11	0.00	18.91	0	-1178.97	2	-1238.18	2	0.00	2.35	0.00
100	100	128.75	-1606.11	0.00	18.91	0	-1178.97	2	-1238.18	2	0.00	2.35	0.00
100	101	130.33	-1606.11	11.50	9.86	0	-1188.80	2	-1219.68	2	0.00	2.35	0.00
101	101	130.33	-1606.11	11.50	9.86	0	-1188.80	2	-1219.68	2	0.00	2.35	0.00
101	102	131.90	-1606.11	22.99	-17.32	0	-1218.34	2	-1164.09	2	0.00	2.35	0.00
102	102	131.90	-1606.11	22.99	-17.32	0	-1218.34	2	-1164.09	2	0.00	2.35	0.00
102	103	133.48	-1606.11	34.49	-62.60	0	-1267.54	2	-1071.50	2	0.00	2.35	0.00
103	103	133.48	-1606.11	34.49	-62.60	0	-1267.54	2	-1071.50	2	0.00	2.35	0.00
103	104	135.05	-1606.11	46.00	-125.98	0	-1336.42	2	-941.89	2	0.00	2.35	0.00
104	104	135.05	-1605.05	74.29	-125.85	0	-1335.48	2	-941.37	2	0.00	2.35	0.00
104	105	136.63	-1604.86	85.79	-252.32	0	-1472.78	2	-682.60	2	0.00	2.35	0.00
105	105	136.63	-1604.86	85.79	-252.32	0	-1290.15	2	-597.32	2	0.00	2.35	0.00
105	106	138.20	-1604.64	97.30	-396.90	0	-1438.78	2	-348.97	2	0.00	2.35	0.00
106	106	138.20	-1095.92	69.00	-64.40	0	-769.97	2	-593.15	2	0.00	2.35	0.00
106	107	139.78	-1095.92	80.50	-182.12	0	-891.11	2	-391.05	2	0.00	2.35	0.00
107	107	139.78	-1095.92	80.50	-182.12	0	-891.11	2	-391.05	2	0.00	2.35	0.00
107	108	141.35	-1095.92	87.30	-314.27	0	-1027.10	2	-164.18	2	0.00	2.35	0.00
108	108	141.35	-585.73	87.30	32.66	0	-342.49	2	-432.18	2	0.00	2.35	0.00
108	109	142.93	-585.73	94.11	-110.19	0	-489.49	2	-186.94	2	0.00	2.35	0.00
109	109	142.93	-585.73	94.11	-110.19	0	-489.49	2	-186.94	2	0.00	2.35	0.00
109	110	143.50	-585.73	96.59	-165.03	0	-545.92	2	-92.79	2	0.00	2.35	0.00
110	110	143.50	0.00	96.59	101.45	0	104.40	2	-174.17	2	0.00	2.35	0.00
110	111	144.50	0.00	106.35	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
111	1111	144.50	0.00	-81.54	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
111	112	145.50	0.00	-71.78	76.67	0	78.90	2	-131.63	2	0.00	2.35	0.00
112	112	145.50	-476.41	-71.78	-113.28	0	-422.48	2	-111.42	2	0.00	2.35	0.00
112	113	145.68	-476.41	-71.02	-100.80	0	-409.64	2	-132.85	2	0.00	2.35	0.00
113	113	145.68	-476.41	-71.02	-100.80	0	-409.64	2	-132.85	2	0.00	2.35	0.00
113	114	146.85	-476.41	-65.95	-20.33	0	-326.83	2	-271.00	2	0.00	2.35	0.00
114	114	146.85	-877.27	-65.95	-292.92	0	-864.73	2	-60.43	2	0.00	2.35	0.00
114	115	148.03	-877.27	-60.88	-218.42	0	-788.06	2	-188.33	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F3.T0.MZ+
Construcción sin gradiente en fase constructiva 3
[Vigas * [95; 1.05]fase1.ISO To * [1; 1]Prelosas * [1; 1]HBCV
Coef eve.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.27	-60.88	-218.42	0	-788.06	2	-188.33	2	0.00	2.35	0.00
115	116	149.20	-877.27	-52.29	-151.93	0	-719.64	2	-302.48	2	0.00	2.35	0.00
116	116	149.20	-875.78	-73.01	-151.80	0	-718.56	2	-301.74	2	0.00	2.35	0.00
116	117	150.38	-875.99	-64.43	-70.84	0	-635.39	2	-440.86	2	0.00	2.35	0.00
117	117	150.38	-875.99	-64.43	-70.84	0	-731.22	2	-509.36	2	0.00	2.35	0.00
117	118	151.55	-876.19	-55.85	0.02	0	-654.36	2	-654.43	2	0.00	2.35	0.00
118	118	151.55	-877.27	-35.13	-0.09	0	-655.28	2	-655.00	2	0.00	2.35	0.00
118	119	152.73	-877.27	-26.55	36.15	0	-615.90	2	-729.11	2	0.00	2.35	0.00
119	119	152.73	-877.27	-26.55	36.15	0	-615.90	2	-729.11	2	0.00	2.35	0.00
119	120	153.90	-877.27	-17.97	62.31	0	-587.48	2	-782.60	2	0.00	2.35	0.00
120	120	153.90	-877.27	-17.97	62.31	0	-587.48	2	-782.60	2	0.00	2.35	0.00
120	121	155.08	-877.27	-9.39	78.38	0	-570.01	2	-815.46	2	0.00	2.35	0.00
121	121	155.08	-877.27	-9.39	78.38	0	-570.01	2	-815.46	2	0.00	2.35	0.00
121	122	156.25	-877.27	-0.82	84.37	0	-563.50	2	-827.71	2	0.00	2.35	0.00
122	122	156.25	-877.27	-0.82	84.37	0	-563.50	2	-827.71	2	0.00	2.35	0.00
122	123	157.43	-877.27	7.77	80.29	0	-567.94	2	-819.37	2	0.00	2.35	0.00
123	123	157.43	-877.27	7.77	80.29	0	-567.94	2	-819.37	2	0.00	2.35	0.00
123	124	158.60	-877.27	16.34	66.13	0	-583.32	2	-790.41	2	0.00	2.35	0.00
124	124	158.60	-877.27	16.34	66.13	0	-583.32	2	-790.41	2	0.00	2.35	0.00
124	125	159.78	-877.27	24.92	41.88	0	-609.68	2	-740.82	2	0.00	2.35	0.00
125	125	159.78	-877.27	24.92	41.88	0	-609.68	2	-740.82	2	0.00	2.35	0.00
125	126	160.95	-877.27	33.50	7.56	0	-646.97	2	-670.64	2	0.00	2.35	0.00
126	126	160.95	-877.27	33.50	7.56	0	-646.97	2	-670.64	2	0.00	2.35	0.00
126	127	162.13	-877.27	42.08	-36.84	0	-695.22	2	-579.85	2	0.00	2.35	0.00
127	127	162.13	-877.27	42.08	-36.84	0	-695.22	2	-579.85	2	0.00	2.35	0.00
127	128	163.30	-877.27	50.66	-91.33	0	-754.43	2	-468.42	2	0.00	2.35	0.00
128	128	163.30	-877.27	50.66	-91.33	0	-754.43	2	-468.42	2	0.00	2.35	0.00
128	129	164.48	-877.27	59.23	-155.88	0	-824.58	2	-336.41	2	0.00	2.35	0.00
129	129	164.48	-877.27	59.23	-155.88	0	-824.58	2	-336.41	2	0.00	2.35	0.00
129	130	165.65	-877.27	67.82	-230.53	0	-905.70	2	-183.76	2	0.00	2.35	0.00
130	130	165.65	-476.41	67.82	19.60	0	-334.50	2	-395.89	2	0.00	2.35	0.00
130	131	166.83	-476.41	76.40	-65.11	0	-426.55	2	-222.66	2	0.00	2.35	0.00
131	131	166.83	-476.41	76.40	-65.11	0	-426.55	2	-222.66	2	0.00	2.35	0.00
131	132	167.00	-476.41	77.67	-78.61	0	-441.22	2	-195.06	2	0.00	2.35	0.00
132	132	167.00	0.00	77.67	84.67	0	92.01	2	-173.15	2	0.00	2.35	0.00
132	133	168.00	0.00	91.69	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

GRÁFICO DE TENSIONES



CÁLCULO TENSIONAL

Hipótesis de cálculo:

CONST1.F4.T0.MZ+

:trucción sin gradiente en fase constructiva 4

[1: ..vigas + [.95; 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [.9: 1.1]fase4.ISO.To + [.9: 1.1]fase4.HIP.To

Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-89.29	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-75.27	82.29	0	90.37	2	-172.48	2	0.62	2.35	0.98
2	2	1.00	-476.41	-75.27	-80.99	0	-442.86	2	-194.39	2	0.62	2.35	0.98
2	3	1.18	-476.41	-74.00	-67.93	0	-428.50	2	-221.83	2	0.73	2.35	1.15
3	3	1.18	-476.41	-74.00	-67.93	0	-428.50	2	-221.83	2	0.73	2.35	1.15
3	4	2.35	-476.41	-65.42	13.96	0	-338.40	2	-394.22	2	1.45	2.35	2.29
4	4	2.35	-877.27	-65.42	-236.17	0	-909.59	2	-182.09	2	1.45	2.35	2.29
4	5	3.53	-877.27	-56.83	-164.35	0	-830.42	2	-333.91	2	2.17	2.35	3.44
5	5	3.53	-877.27	-56.83	-164.35	0	-830.42	2	-333.91	2	2.17	2.35	3.44
5	6	4.70	-877.27	-48.26	-102.63	0	-762.23	2	-465.08	2	2.90	2.35	4.59
6	6	4.70	-877.27	-48.26	-102.63	0	-762.23	2	-465.08	2	2.90	2.35	4.59
6	7	5.88	-877.27	-39.68	-50.95	0	-704.96	2	-575.68	2	3.62	2.35	5.74
7	7	5.88	-877.27	-39.68	-50.95	0	-704.96	2	-575.68	2	3.62	2.35	5.74
7	8	7.05	-877.27	-31.10	-9.38	0	-658.67	2	-665.64	2	4.35	2.35	6.88
8	8	7.05	-877.27	-31.10	-9.38	0	-658.67	2	-665.64	2	4.35	2.35	6.88
8	9	8.23	-877.27	-22.52	22.12	0	-623.32	2	-734.99	2	5.07	2.35	8.03
9	9	8.23	-877.27	-22.52	22.12	0	-623.32	2	-734.99	2	5.07	2.35	8.03
9	10	9.40	-877.27	-13.94	43.55	0	-598.92	2	-783.74	2	5.79	2.35	9.18
10	10	9.40	-877.27	-13.94	43.55	0	-598.92	2	-783.74	2	5.79	2.35	9.18
10	11	10.58	-877.27	-5.37	54.88	0	-585.48	2	-811.86	2	6.52	2.35	10.33
1	11	10.58	-877.27	-5.37	54.88	0	-585.48	2	-811.86	2	6.52	2.35	10.33
11	12	11.75	-877.27	3.22	56.14	0	-582.99	2	-819.38	2	7.24	2.35	11.47
12	12	11.75	-877.27	3.22	56.14	0	-582.99	2	-819.38	2	7.24	2.35	11.47
12	13	12.93	-877.27	11.79	47.33	0	-591.45	2	-806.29	2	7.97	2.35	12.62
13	13	12.93	-877.27	11.79	47.33	0	-591.45	2	-806.29	2	7.97	2.35	12.62
13	14	14.10	-877.27	20.37	28.43	0	-610.87	2	-772.59	2	8.69	2.35	13.77
14	14	14.10	-877.27	20.37	28.43	0	-610.87	2	-772.59	2	8.69	2.35	13.77
14	15	15.28	-877.27	28.95	-0.54	0	-641.24	2	-718.27	2	9.42	2.35	14.91
15	15	15.28	-877.27	28.95	-0.54	0	-641.24	2	-718.27	2	9.42	2.35	14.91
15	16	16.45	-877.27	37.53	-39.61	0	-682.57	2	-643.32	2	10.14	2.35	16.06
16	16	16.45	-876.22	58.25	-39.50	0	-681.65	2	-642.76	2	10.13	2.35	16.05
16	17	17.63	-876.02	66.83	-113.19	0	-760.46	2	-496.86	2	10.86	2.35	17.20
17	17	17.63	-876.02	66.83	-113.19	0	-663.74	2	-425.74	2	13.13	2.35	19.73
17	18	18.80	-875.81	75.41	-196.96	0	-748.80	2	-285.62	2	14.00	2.35	21.05
18	18	18.80	-877.89	54.61	-197.09	0	-750.09	2	-286.57	2	13.82	2.35	20.86
18	19	19.98	-877.89	63.20	-266.40	0	-820.40	2	-171.41	2	14.69	2.35	22.18
19	19	19.98	-877.89	63.20	-266.40	0	-837.84	2	-106.34	2	0.00	2.35	0.00
19	20	21.15	-877.89	68.27	-343.72	0	-917.41	2	26.39	2	0.00	2.35	0.00
20	20	21.15	-476.41	68.35	-71.14	0	-379.11	2	-183.78	2	0.00	2.35	0.00
20	21	22.33	-476.41	73.42	-154.43	0	-464.82	2	-40.78	2	0.00	2.35	0.00
21	21	22.33	-476.41	73.42	-154.43	0	-464.82	2	-40.78	2	0.00	2.35	0.00
21	22	22.50	-476.41	74.18	-167.35	0	-478.11	2	-18.61	2	0.00	2.35	0.00
22	22	22.50	-801.66	74.18	448.28	0	-53.45	2	-1284.36	2	0.00	2.35	0.00
22	23	23.50	-801.66	83.94	369.22	0	-134.81	2	-1148.63	2	0.00	2.35	0.00
23	1023	23.50	-801.66	-98.86	369.22	0	-134.81	2	-1148.63	2	0.00	2.35	0.00
)	24	24.50	-801.66	-89.10	463.20	0	-38.10	2	-1309.97	2	0.00	2.35	0.00
24	24	24.50	-512.85	-89.10	-177.94	0	-512.41	2	-23.83	2	0.00	2.35	0.00
24	25	24.95	-512.85	-87.16	-138.27	0	-471.59	2	-91.92	2	0.00	2.35	0.00
25	25	24.95	-512.85	-87.16	-138.27	0	-471.59	2	-91.92	2	0.00	2.35	0.00
25	26	26.40	-512.85	-80.90	-16.45	0	-346.23	2	-301.07	2	0.00	2.35	0.00
26	26	26.40	-950.26	-80.88	-313.81	0	-933.10	2	-71.42	2	0.00	2.35	0.00
26	27	27.85	-950.26	-74.61	-201.07	0	-817.08	2	-264.98	2	0.00	2.35	0.00
27	27	27.85	-950.26	-74.61	-201.07	0	-797.56	2	-338.63	2	16.78	2.35	25.23
27	28	29.30	-950.26	-64.03	-100.53	0	-694.37	2	-510.21	2	16.54	2.35	24.88
28	28	29.30	-1313.11	-89.21	-337.99	0	-1171.75	2	-335.57	2	16.58	2.35	24.91
28	29	30.75	-1313.33	-78.62	-216.00	0	-1046.63	2	-544.11	2	16.34	2.35	24.56
29	29	30.75	-1313.33	-78.62	-216.00	0	-1194.71	2	-631.32	2	13.52	2.35	21.41
29	30	32.20	-1313.53	-68.03	-109.37	0	-1079.27	2	-848.21	2	13.32	2.35	21.11
30	30	32.20	-1314.57	-42.87	-109.49	0	-1080.19	2	-848.74	2	13.32	2.35	21.11
30	31	33.65	-1314.57	-32.28	-55.00	0	-1021.28	2	-958.84	2	13.13	2.35	20.80
31	31	33.65	-1314.57	-32.28	-55.00	0	-1021.28	2	-958.84	2	13.13	2.35	20.80
31	32	35.10	-1314.57	-21.70	-15.88	0	-979.06	2	-1037.52	2	12.94	2.35	20.49
32	32	35.10	-1314.57	-21.70	-15.88	0	-979.06	2	-1037.52	2	12.94	2.35	20.49
32	33	36.55	-1314.57	-11.10	7.90	0	-953.52	2	-1084.84	2	12.75	2.35	20.19
33	33	36.55	-1314.57	-11.10	7.90	0	-953.52	2	-1084.84	2	12.75	2.35	20.19
33	34	38.00	-1314.57	-0.52	16.34	0	-944.65	2	-1100.77	2	12.55	2.35	19.88
34	34	38.00	-1314.57	-0.52	16.34	0	-944.65	2	-1100.77	2	12.55	2.35	19.88
34	35	39.45	-1314.57	10.06	9.41	0	-952.47	2	-1085.29	2	12.36	2.35	19.57
35	35	39.45	-1314.57	10.06	9.41	0	-952.47	2	-1085.29	2	12.36	2.35	19.57
35	36	40.90	-1314.57	20.66	-12.86	0	-976.98	2	-1038.42	2	12.16	2.35	19.27
,	36	40.90	-1314.57	20.66	-12.86	0	-976.98	2	-1038.42	2	12.16	2.35	19.27
36	37	42.35	-1314.57	31.24	-50.48	0	-1018.16	2	-960.17	2	11.97	2.35	18.96
37	37	42.35	-1314.57	31.24	-50.48	0	-1018.16	2	-960.17	2	11.97	2.35	18.96
37	38	43.80	-1314.57	41.83	-103.46	0	-1076.02	2	-850.52	2	11.78	2.35	18.66
38	38	43.80	-1313.53	66.98	-103.34	0	-1075.11	2	-849.99	2	11.78	2.35	18.66
38	39	45.25	-1313.33	77.57	-208.46	0	-1189.50	2	-633.54	2	11.58	2.35	18.35

:ÁLCULO TENSIONAL

ipótesis de cálculo:

ONST1.F4.T0.MZ+

onstrucción sin gradiente en fase constructiva 4

..1)Pvigas + [.95; 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To

ef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1313.33	77.57	-208.46	0	-1041.59	2	-546.80	2	14.00	2.35	21.05
39	40	46.70	-1313.11	88.16	-328.94	0	-1165.69	2	-338.80	2	13.77	2.35	20.69
40	40	46.70	-950.04	63.03	-91.48	0	-688.23	2	-513.37	2	13.80	2.35	20.73
40	41	48.15	-950.04	73.61	-190.51	0	-790.41	2	-342.32	2	13.57	2.35	20.37
41	41	48.15	-950.04	73.61	-190.51	0	-806.08	2	-282.97	2	0.00	2.35	0.00
41	42	49.60	-950.04	79.88	-301.75	0	-920.55	2	-91.99	2	0.00	2.35	0.00
42	42	49.60	-512.85	79.86	-4.39	0	-333.82	2	-321.78	2	0.00	2.35	0.00
42	43	51.05	-512.85	86.12	-124.70	0	-457.63	2	-115.22	2	0.00	2.35	0.00
43	43	51.05	-512.85	86.12	-124.70	0	-457.63	2	-115.22	2	0.00	2.35	0.00
43	44	51.50	-512.85	88.06	-163.90	0	-497.96	2	-47.93	2	0.00	2.35	0.00
44	44	51.50	-801.66	88.06	477.24	0	-23.65	2	-1334.08	2	0.00	2.35	0.00
44	45	52.50	-801.66	97.82	384.31	0	-119.29	2	-1174.52	2	0.00	2.35	0.00
45	1045	52.50	-801.66	-98.30	384.31	0	-119.29	2	-1174.52	2	0.00	2.35	0.00
45	46	53.50	-801.66	-88.54	477.72	0	-23.16	2	-1334.90	2	0.00	2.35	0.00
46	46	53.50	-512.85	-88.54	-163.42	0	-497.47	2	-48.75	2	0.00	2.35	0.00
46	47	53.95	-512.85	-86.60	-124.01	0	-456.91	2	-116.41	2	0.00	2.35	0.00
47	47	53.95	-512.85	-86.60	-124.01	0	-456.91	2	-116.41	2	0.00	2.35	0.00
47	48	55.40	-512.85	-80.34	-3.01	0	-332.40	2	-324.14	2	0.00	2.35	0.00
48	48	55.40	-950.14	-80.34	-300.38	0	-919.20	2	-94.41	2	0.00	2.35	0.00
48	49	56.85	-950.14	-74.07	-188.45	0	-804.02	2	-286.57	2	0.00	2.35	0.00
49	49	56.85	-950.14	-74.07	-188.45	0	-789.07	2	-343.09	2	12.90	2.35	19.38
49	50	58.30	-950.14	-63.48	-88.72	0	-686.42	2	-514.39	2	12.92	2.35	19.41
50	50	58.30	-1313.11	-88.64	-326.19	0	-1163.85	2	-339.78	2	12.91	2.35	19.41
50	51	59.75	-1313.33	-78.05	-205.02	0	-1039.28	2	-548.03	2	12.93	2.35	19.44
51	51	59.75	-1313.33	-78.05	-205.02	0	-1187.12	2	-634.56	2	10.70	2.35	16.95
51	52	61.20	-1313.53	-67.46	-99.20	0	-1072.26	2	-851.21	2	10.72	2.35	16.98
52	52	61.20	-1314.57	-42.31	-99.33	0	-1073.17	2	-851.74	2	10.72	2.35	16.98
52	53	62.65	-1314.57	-31.72	-45.66	0	-1014.83	2	-961.60	2	10.73	2.35	17.00
53	53	62.65	-1314.57	-31.72	-45.66	0	-1014.83	2	-961.60	2	10.73	2.35	17.00
53	54	64.10	-1314.57	-21.14	-7.35	0	-973.18	2	-1040.04	2	10.75	2.35	17.03
54	54	64.10	-1314.57	-21.14	-7.35	0	-973.18	2	-1040.04	2	10.75	2.35	17.03
54	55	65.55	-1314.57	-10.54	15.61	0	-948.19	2	-1087.12	2	10.77	2.35	17.05
55	55	65.55	-1314.57	-10.54	15.61	0	-948.19	2	-1087.12	2	10.77	2.35	17.05
55	56	67.00	-1314.57	0.05	23.22	0	-939.90	2	-1102.80	2	10.78	2.35	17.08
56	56	67.00	-1314.57	0.05	23.22	0	-939.90	2	-1102.80	2	10.78	2.35	17.08
56	57	68.45	-1314.57	10.63	15.48	0	-948.29	2	-1087.08	2	10.80	2.35	17.11
57	57	68.45	-1314.57	10.63	15.48	0	-948.29	2	-1087.08	2	10.80	2.35	17.11
57	58	69.90	-1314.57	21.23	-7.61	0	-973.36	2	-1039.97	2	10.82	2.35	17.13
58	58	69.90	-1314.57	21.23	-7.61	0	-973.36	2	-1039.97	2	10.82	2.35	17.13
58	59	71.35	-1314.57	31.81	-46.05	0	-1015.10	2	-961.48	2	10.83	2.35	17.16
59	59	71.35	-1314.57	31.81	-46.05	0	-1015.10	2	-961.48	2	10.83	2.35	17.16
59	60	72.80	-1314.57	42.40	-99.85	0	-1073.53	2	-851.58	2	10.85	2.35	17.19
60	60	72.80	-1313.53	67.55	-99.73	0	-1072.62	2	-851.05	2	10.85	2.35	17.19
60	61	74.25	-1313.33	78.14	-205.67	0	-1187.58	2	-634.37	2	10.87	2.35	17.21
61	61	74.25	-1313.33	78.14	-205.67	0	-1039.72	2	-547.80	2	13.14	2.35	19.75
61	62	75.70	-1313.11	88.73	-326.97	0	-1164.37	2	-339.50	2	13.16	2.35	19.77
62	62	75.70	-950.16	63.58	-89.51	0	-686.95	2	-514.12	2	13.15	2.35	19.77
62	63	77.15	-950.16	74.16	-189.36	0	-789.68	2	-342.78	2	13.17	2.35	19.80
63	63	77.15	-950.16	74.16	-189.36	0	-804.97	2	-285.02	2	0.00	2.35	0.00
63	64	78.60	-950.16	80.43	-301.42	0	-920.29	2	-92.63	2	0.00	2.35	0.00
64	64	78.60	-512.85	80.43	-4.05	0	-333.47	2	-322.35	2	0.00	2.35	0.00
64	65	80.05	-512.85	86.69	-125.19	0	-458.13	2	-114.39	2	0.00	2.35	0.00
65	65	80.05	-512.85	86.69	-125.19	0	-458.13	2	-114.39	2	0.00	2.35	0.00
65	66	80.50	-512.85	88.63	-164.63	0	-498.72	2	-46.67	2	0.00	2.35	0.00
66	66	80.50	-801.66	88.63	476.51	0	-24.41	2	-1332.81	2	0.00	2.35	0.00
66	67	81.50	-801.66	98.38	383.00	0	-120.63	2	-1172.28	2	0.00	2.35	0.00
67	1067	81.50	-801.66	-106.53	383.00	0	-120.63	2	-1172.28	2	0.00	2.35	0.00
67	68	82.50	-801.66	-96.77	484.64	0	-16.03	2	-1346.78	2	0.00	2.35	0.00
68	68	82.50	-585.73	-96.77	-207.51	0	-589.64	2	-19.85	2	0.00	2.35	0.00
68	69	83.08	-585.73	-94.29	-152.58	0	-533.12	2	-114.15	2	0.00	2.35	0.00
69	69	83.08	-585.73	-94.29	-152.58	0	-533.12	2	-114.15	2	0.00	2.35	0.00
69	70	84.65	-585.73	-87.48	-9.46	0	-385.84	2	-359.86	2	0.00	2.35	0.00
70	70	84.65	-1095.96	-87.47	-356.39	0	-1070.47	2	-91.87	2	0.00	2.35	0.00
70	71	86.23	-1095.96	-80.67	-223.97	0	-934.20	2	-319.22	2	0.00	2.35	0.00
71	71	86.23	-1095.96	-80.67	-223.97	0	-919.13	2	-376.12	2	12.97	2.35	19.50
71	72	87.80	-1095.96	-69.17	-105.97	0	-797.81	2	-578.31	2	12.88	2.35	19.37
72	72	87.80	-1604.64	-97.48	-438.47	0	-1466.61	2	-334.13	2	12.89	2.35	19.38
72	73	89.38	-1604.86	-85.97	-293.61	0	-1317.79	2	-582.57	2	12.81	2.35	19.25
73	73	89.38	-1604.86	-85.97	-293.61	0	-1501.29	2	-670.40	2	10.60	2.35	16.78
73	74	90.95	-1605.05	-74.47	-166.88	0	-1363.82	2	-929.23	2	10.53	2.35	16.67
74	74	90.95	-1606.11	-46.18	-167.01	0	-1364.75	2	-929.75	2	10.53	2.35	16.67
74	75	92.53	-1606.11	-34.67	-103.34	0	-1295.68	2	-1059.46	2	10.45	2.35	16.56
75	75	92.53	-1606.11	-34.67	-103.34	0	-1295.68	2	-1059.46	2	10.45	2.35	16.56
75	76	94.10	-1606.11	-23.17	-57.79	0	-1246.28	2	-1152.14	2	10.38	2.35	16.45
76	76	94.10	-1606.11	-23.17	-57.79	0	-1246.28	2	-1152.14	2	10.38	2.35	16.45
76	77	95.68	-1606.11	-11.68	-30.35	0	-1216.57	2	-1207.76	2	10.31	2.35	16.33

CÁLCULO TENSIONAL

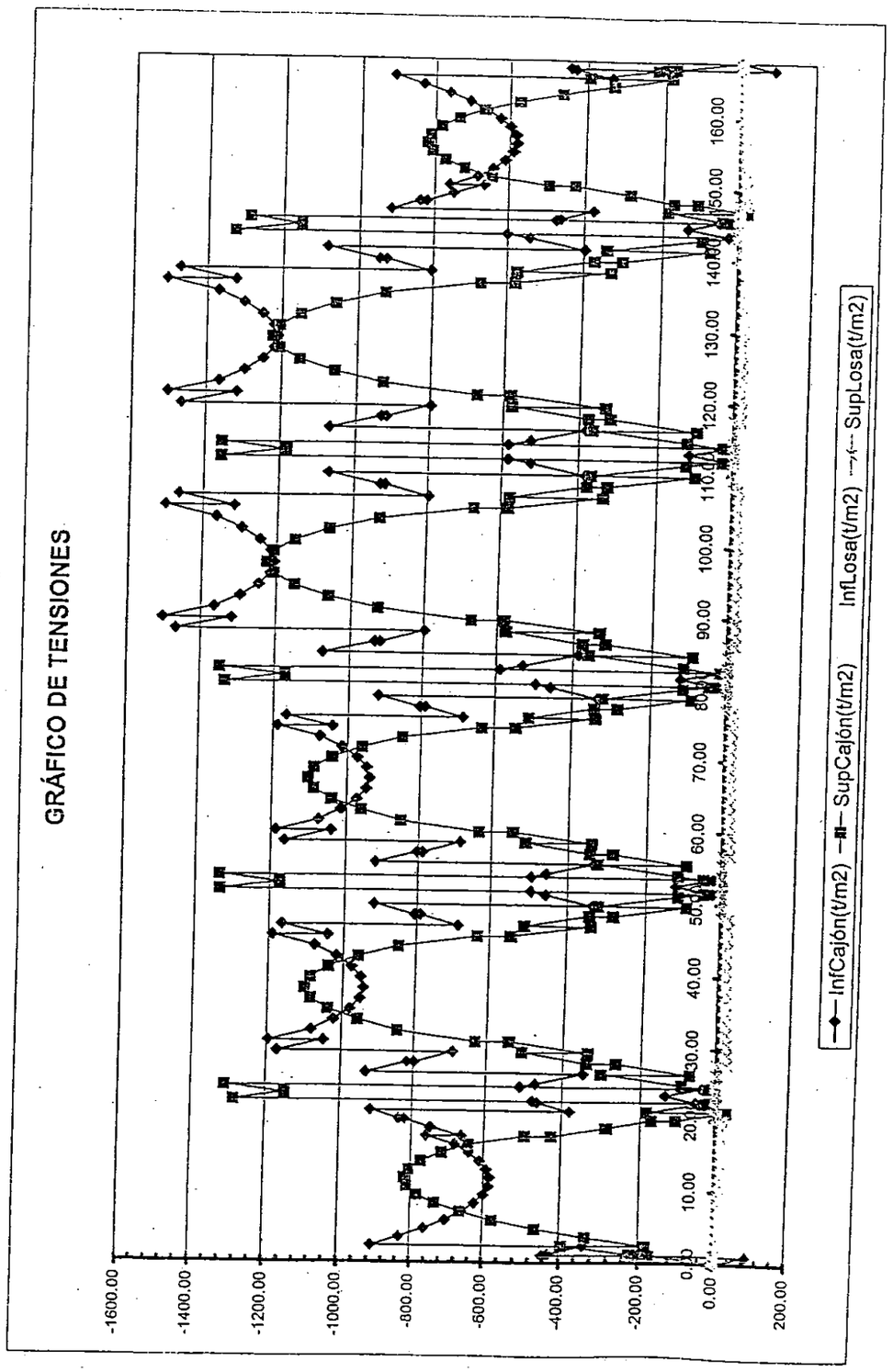
Hipótesis de cálculo:
CONST1.F4.T0.MZ+
Construcción sin gradiente en fase constructiva 4
[1: 1]Fvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1606.11	-11.68	-30.35	0	-1216.57	2	-1207.76	2	10.31	2.35	16.33
77	78	97.25	-1606.11	-0.18	-21.03	0	-1206.55	2	-1226.35	2	10.24	2.35	16.22
78	78	97.25	-1606.11	-0.18	-21.03	0	-1206.55	2	-1226.35	2	10.24	2.35	16.22
78	79	98.83	-1606.11	11.32	-29.80	0	-1216.19	2	-1207.93	2	10.17	2.35	16.11
79	79	98.83	-1606.11	11.32	-29.80	0	-1216.19	2	-1207.93	2	10.17	2.35	16.11
79	80	100.40	-1606.11	22.81	-56.68	0	-1245.51	2	-1152.47	2	10.10	2.35	16.00
80	80	100.40	-1606.11	22.81	-56.68	0	-1245.51	2	-1152.47	2	10.10	2.35	16.00
80	81	101.98	-1606.11	34.31	-101.69	0	-1294.53	2	-1059.95	2	10.03	2.35	15.89
81	81	101.98	-1606.11	34.31	-101.69	0	-1294.53	2	-1059.95	2	10.03	2.35	15.89
81	82	103.55	-1606.11	45.82	-164.80	0	-1363.22	2	-930.40	2	9.96	2.35	15.77
82	82	103.55	-1605.05	74.11	-164.67	0	-1362.29	2	-929.89	2	9.96	2.35	15.77
82	83	105.13	-1604.86	85.61	-290.85	0	-1499.38	2	-671.21	2	9.89	2.35	15.66
83	83	105.13	-1604.86	85.61	-290.85	0	-1315.94	2	-583.56	2	11.95	2.35	17.96
83	84	106.70	-1604.64	97.12	-435.15	0	-1464.38	2	-335.31	2	11.86	2.35	17.83
84	84	106.70	-1095.88	68.83	-102.65	0	-795.56	2	-579.48	2	11.88	2.35	17.84
84	85	108.28	-1095.88	80.33	-220.10	0	-916.52	2	-377.47	2	11.79	2.35	17.72
85	85	108.28	-1095.88	80.33	-220.10	0	-930.17	2	-325.82	2	0.00	2.35	0.00
85	86	109.85	-1095.88	87.13	-351.97	0	-1065.87	2	-99.43	2	0.00	2.35	0.00
86	86	109.85	-585.73	87.12	-5.04	0	-381.29	2	-367.46	2	0.00	2.35	0.00
86	87	111.43	-585.73	93.93	-147.61	0	-528.00	2	-122.70	2	0.00	2.35	0.00
87	87	111.43	-585.73	93.93	-147.61	0	-528.00	2	-122.70	2	0.00	2.35	0.00
87	88	112.00	-585.73	96.41	-202.35	0	-584.33	2	-28.72	2	0.00	2.35	0.00
88	88	112.00	-801.66	96.41	489.81	0	-10.72	2	-1355.64	2	0.00	2.35	0.00
88	89	113.00	-801.66	106.17	388.54	0	-114.93	2	-1181.79	2	0.00	2.35	0.00
89	1089	113.00	-801.66	-105.81	388.54	0	-114.93	2	-1181.79	2	0.00	2.35	0.00
89	90	114.00	-801.66	-96.05	489.47	0	-11.07	2	-1355.06	2	0.00	2.35	0.00
90	90	114.00	-585.73	-96.05	-202.69	0	-584.68	2	-28.13	2	0.00	2.35	0.00
90	91	114.58	-585.73	-93.57	-148.18	0	-528.59	2	-121.71	2	0.00	2.35	0.00
91	91	114.58	-585.73	-93.57	-148.18	0	-528.59	2	-121.71	2	0.00	2.35	0.00
91	92	116.15	-585.73	-86.76	-6.18	0	-382.46	2	-365.50	2	0.00	2.35	0.00
92	92	116.15	-1095.81	-86.77	-353.11	0	-1067.00	2	-97.42	2	0.00	2.35	0.00
92	93	117.73	-1095.81	-79.97	-221.81	0	-931.88	2	-322.84	2	0.00	2.35	0.00
93	93	117.73	-1095.81	-79.97	-221.81	0	-917.63	2	-376.84	2	12.34	2.35	18.54
93	94	119.30	-1095.81	-68.47	-104.93	0	-797.06	2	-578.63	2	12.61	2.35	18.93
94	94	119.30	-1604.64	-96.76	-437.43	0	-1465.91	2	-334.50	2	12.57	2.35	18.90
94	95	120.88	-1604.86	-85.25	-293.71	0	-1317.85	2	-582.53	2	12.84	2.35	19.30
95	95	120.88	-1604.86	-85.25	-293.71	0	-1501.36	2	-670.37	2	10.62	2.35	16.82
95	96	122.45	-1605.05	-73.75	-168.09	0	-1364.65	2	-928.89	2	10.84	2.35	17.17
96	96	122.45	-1606.11	-45.46	-168.22	0	-1365.58	2	-929.41	2	10.84	2.35	17.17
96	97	124.03	-1606.11	-33.95	-105.67	0	-1297.28	2	-1058.79	2	11.05	2.35	17.51
97	97	124.03	-1606.11	-33.95	-105.67	0	-1297.28	2	-1058.79	2	11.05	2.35	17.51
97	98	125.60	-1606.11	-22.45	-61.26	0	-1248.68	2	-1151.11	2	11.27	2.35	17.86
98	98	125.60	-1606.11	-22.45	-61.26	0	-1248.68	2	-1151.11	2	11.27	2.35	17.86
98	99	127.18	-1606.11	-10.96	-34.93	0	-1219.73	2	-1206.45	2	11.49	2.35	18.20
99	99	127.18	-1606.11	-10.96	-34.93	0	-1219.73	2	-1206.45	2	11.49	2.35	18.20
99	100	128.75	-1606.11	0.54	-26.72	0	-1210.48	2	-1224.70	2	11.71	2.35	18.55
100	100	128.75	-1606.11	0.54	-26.72	0	-1210.48	2	-1224.70	2	11.71	2.35	18.55
100	101	130.33	-1606.11	12.04	-36.62	0	-1220.89	2	-1205.95	2	11.93	2.35	18.89
101	101	130.33	-1606.11	12.04	-36.62	0	-1220.89	2	-1205.95	2	11.93	2.35	18.89
101	102	131.90	-1606.11	23.53	-64.65	0	-1251.02	2	-1150.11	2	12.14	2.35	19.24
102	102	131.90	-1606.11	23.53	-64.65	0	-1251.02	2	-1150.11	2	12.14	2.35	19.24
102	103	133.48	-1606.11	35.03	-110.78	0	-1300.81	2	-1057.27	2	12.36	2.35	19.58
103	103	133.48	-1606.11	35.03	-110.78	0	-1300.81	2	-1057.27	2	12.36	2.35	19.58
103	104	135.05	-1606.11	46.54	-175.00	0	-1370.27	2	-927.41	2	12.58	2.35	19.92
104	104	135.05	-1605.05	74.83	-174.87	0	-1369.33	2	-926.89	2	12.58	2.35	19.92
104	105	136.63	-1604.86	86.33	-302.19	0	-1507.21	2	-667.86	2	12.80	2.35	20.27
105	105	136.63	-1604.86	86.33	-302.19	0	-1323.53	2	-579.51	2	15.47	2.35	23.25
105	106	138.20	-1604.64	97.84	-447.62	0	-1472.73	2	-330.86	2	15.73	2.35	23.65
106	106	138.20	-1096.03	69.53	-115.12	0	-803.96	2	-575.07	2	15.70	2.35	23.61
106	107	139.78	-1096.03	81.03	-233.69	0	-925.66	2	-372.67	2	15.96	2.35	24.01
107	107	139.78	-1096.03	81.03	-233.69	0	-944.24	2	-302.58	2	0.00	2.35	0.00
107	108	141.35	-1096.03	87.83	-366.68	0	-1081.10	2	-74.26	2	0.00	2.35	0.00
108	108	141.35	-585.73	87.84	-19.75	0	-396.43	2	-342.20	2	0.00	2.35	0.00
108	109	142.93	-585.73	94.65	-163.45	0	-544.30	2	-95.50	2	0.00	2.35	0.00
109	109	142.93	-585.73	94.65	-163.45	0	-544.30	2	-95.50	2	0.00	2.35	0.00
109	110	143.50	-585.73	97.13	-218.60	0	-601.06	2	-0.81	2	0.00	2.35	0.00
110	110	143.50	-801.66	97.13	473.55	0	-27.45	2	-1327.74	2	0.00	2.35	0.00
110	111	144.50	-801.66	106.89	371.56	0	-132.40	2	-1152.64	2	0.00	2.35	0.00
111	1111	144.50	-801.66	83.84	371.56	0	-132.40	2	-1152.64	2	0.00	2.35	0.00
111	112	145.50	-801.66	-74.08	450.54	0	-51.13	2	-1288.23	2	0.00	2.35	0.00
112	112	145.50	-476.41	-74.08	-165.10	0	-475.80	2	-22.47	2	0.00	2.35	0.00
112	113	145.68	-476.41	-73.32	-152.21	0	-462.54	2	-44.59	2	0.00	2.35	0.00
113	113	145.68	-476.41	-73.32	-152.21	0	-462.54	2	-44.59	2	0.00	2.35	0.00
113	114	146.85	-476.41	-68.25	-69.03	0	-376.94	2	-187.39	2	0.00	2.35	0.00
114	114	146.85	-877.86	-68.17	-341.62	0	-915.22	2	22.80	2	0.00	2.35	0.00
114	115	148.03	-877.86	-63.10	-264.42	0	-835.78	2	-109.74	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F4.T0.MZ+
Construcción sin gradiente en fase constructiva 4
[1]Fvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.86	-63.10	-264.42	0	-819.06	2	-172.11	2	14.08	2.35	21.26
115	116	149.20	-877.86	-54.51	-195.22	0	-748.83	2	-287.23	2	13.24	2.35	20.00
116	116	149.20	-875.81	-75.31	-195.09	0	-747.55	2	-286.29	2	13.42	2.35	20.17
116	117	150.38	-876.02	-66.73	-111.44	0	-662.56	2	-426.37	2	12.58	2.35	18.91
117	117	150.38	-876.02	-66.73	-111.44	0	-759.25	2	-497.37	2	10.41	2.35	16.49
117	118	151.55	-876.22	-58.15	-37.86	0	-680.52	2	-643.25	2	9.71	2.35	15.39
118	118	151.55	-877.27	-37.43	-37.97	0	-681.44	2	-643.81	2	9.72	2.35	15.40
118	119	152.73	-877.27	-28.85	0.98	0	-640.19	2	-718.72	2	9.02	2.35	14.30
119	119	152.73	-877.27	-28.85	0.98	0	-640.19	2	-718.72	2	9.02	2.35	14.30
119	120	153.90	-877.27	-20.27	29.84	0	-609.90	2	-773.01	2	8.33	2.35	13.20
120	120	153.90	-877.27	-20.27	29.84	0	-609.90	2	-773.01	2	8.33	2.35	13.20
120	121	155.08	-877.27	-11.69	48.62	0	-590.56	2	-806.67	2	7.64	2.35	12.10
121	121	155.08	-877.27	-11.69	48.62	0	-590.56	2	-806.67	2	7.64	2.35	12.10
121	122	156.25	-877.27	-3.12	57.31	0	-582.18	2	-819.72	2	6.94	2.35	11.00
122	122	156.25	-877.27	-3.12	57.31	0	-582.18	2	-819.72	2	6.94	2.35	11.00
122	123	157.43	-877.27	5.47	55.93	0	-584.75	2	-812.18	2	6.25	2.35	9.90
123	123	157.43	-877.27	5.47	55.93	0	-584.75	2	-812.18	2	6.25	2.35	9.90
123	124	158.60	-877.27	14.04	44.48	0	-598.27	2	-784.02	2	5.55	2.35	8.80
124	124	158.60	-877.27	14.04	44.48	0	-598.27	2	-784.02	2	5.55	2.35	8.80
124	125	159.78	-877.27	22.62	22.94	0	-622.75	2	-735.23	2	4.86	2.35	7.70
125	125	159.78	-877.27	22.62	22.94	0	-622.75	2	-735.23	2	4.86	2.35	7.70
125	126	160.95	-877.27	31.20	-8.68	0	-658.18	2	-665.84	2	4.17	2.35	6.60
126	126	160.95	-877.27	31.20	-8.68	0	-658.18	2	-665.84	2	4.17	2.35	6.60
126	127	162.13	-877.27	39.78	-50.37	0	-704.56	2	-575.85	2	3.47	2.35	5.50
127	127	162.13	-877.27	39.78	-50.37	0	-704.56	2	-575.85	2	3.47	2.35	5.50
127	128	163.30	-877.27	48.36	-102.16	0	-761.91	2	-465.22	2	2.78	2.35	4.40
128	128	163.30	-877.27	48.36	-102.16	0	-761.91	2	-465.22	2	2.78	2.35	4.40
128	129	164.48	-877.27	56.93	-164.00	0	-830.18	2	-334.02	2	2.08	2.35	3.30
129	129	164.48	-877.27	56.93	-164.00	0	-830.18	2	-334.02	2	2.08	2.35	3.30
129	130	165.65	-877.27	65.52	-235.94	0	-909.43	2	-182.16	2	1.39	2.35	2.20
130	130	165.65	-476.41	65.52	14.19	0	-838.23	2	-394.29	2	1.39	2.35	2.20
130	131	166.83	-476.41	74.10	-67.82	0	-428.42	2	-221.86	2	0.70	2.35	1.10
131	131	166.83	-476.41	74.10	-67.82	0	-428.42	2	-221.86	2	0.70	2.35	1.10
131	132	167.00	-476.41	75.37	-80.91	0	-442.81	2	-194.37	2	0.59	2.35	0.94
132	132	167.00	0.00	75.37	82.37	0	90.42	2	-172.47	2	0.59	2.35	0.94
132	133	168.00	0.00	89.39	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



Programa DINTEL IDEAM S.A.
CONST1.F4.T0.MZ+

corr 10.xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F4.T0.MZ-
Construcción sin gradiente en fase constructiva 4
1: 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4 ISO.To + [9; 1.1]fase4.HIP.To
Ref. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-89.29	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-74.73	81.75	0	90.00	2	-172.32	2	0.75	2.35	1.19
2	2	1.00	-526.55	-74.73	-98.71	0	-499.36	2	-196.53	2	0.75	2.35	1.19
2	3	1.18	-526.55	-73.46	-85.75	0	-485.07	2	-223.95	2	0.89	2.35	1.40
3	3	1.18	-526.55	-73.46	-85.75	0	-485.07	2	-223.95	2	0.89	2.35	1.40
3	4	2.35	-526.55	-64.88	-4.48	0	-395.39	2	-396.16	2	1.77	2.35	2.80
4	4	2.35	-969.61	-64.88	-280.95	0	-1026.72	2	-161.70	2	1.77	2.35	2.80
4	5	3.53	-969.61	-56.29	-209.75	0	-947.98	2	-313.33	2	2.66	2.35	4.21
5	5	3.53	-969.61	-56.29	-209.75	0	-947.98	2	-313.33	2	2.66	2.35	4.21
5	6	4.70	-969.61	-47.72	-148.65	0	-880.22	2	-444.31	2	3.54	2.35	5.61
6	6	4.70	-969.61	-47.72	-148.65	0	-880.22	2	-444.31	2	3.54	2.35	5.61
6	7	5.88	-969.61	-39.14	-97.61	0	-823.38	2	-554.73	2	4.43	2.35	7.01
7	7	5.88	-969.61	-39.14	-97.61	0	-823.38	2	-554.73	2	4.43	2.35	7.01
7	8	7.05	-969.61	-30.56	-56.66	0	-777.52	2	-644.50	2	5.31	2.35	8.41
8	8	7.05	-969.61	-30.56	-56.66	0	-777.52	2	-644.50	2	5.31	2.35	8.41
8	9	8.23	-969.61	-21.98	-25.78	0	-742.60	2	-713.67	2	6.20	2.35	9.81
9	9	8.23	-969.61	-21.98	-25.78	0	-742.60	2	-713.67	2	6.20	2.35	9.81
9	10	9.40	-969.61	-13.40	-4.99	0	-718.64	2	-762.24	2	7.08	2.35	11.22
10	10	9.40	-969.61	-13.40	-4.99	0	-718.64	2	-762.24	2	7.08	2.35	11.22
10	11	10.58	-969.61	-4.83	5.72	0	-705.63	2	-790.17	2	7.97	2.35	12.62
11	11	10.58	-969.61	-4.83	5.72	0	-705.63	2	-790.17	2	7.97	2.35	12.62
11	12	11.75	-969.61	3.76	6.36	0	-703.58	2	-797.50	2	8.85	2.35	14.02
12	12	11.75	-969.61	3.76	6.36	0	-703.58	2	-797.50	2	8.85	2.35	14.02
12	13	12.93	-969.61	12.33	-3.09	0	-712.47	2	-784.23	2	9.74	2.35	15.42
13	13	12.93	-969.61	12.33	-3.09	0	-712.47	2	-784.23	2	9.74	2.35	15.42
13	14	14.10	-969.61	20.91	-22.61	0	-732.32	2	-750.35	2	10.62	2.35	16.83
14	14	14.10	-969.61	20.91	-22.61	0	-732.32	2	-750.35	2	10.62	2.35	16.83
14	15	15.28	-969.61	29.49	-52.22	0	-763.12	2	-695.83	2	11.51	2.35	18.23
15	15	15.28	-969.61	29.49	-52.22	0	-763.12	2	-695.83	2	11.51	2.35	18.23
15	16	16.45	-969.61	38.07	-91.91	0	-804.89	2	-620.70	2	12.39	2.35	19.63
16	16	16.45	-968.54	60.97	-91.78	0	-803.94	2	-620.15	2	12.38	2.35	19.62
16	17	17.63	-968.34	69.55	-168.69	0	-886.00	2	-468.77	2	13.27	2.35	21.02
17	17	17.63	-968.34	69.55	-168.69	0	-776.75	2	-402.54	2	16.04	2.35	24.12
17	18	18.80	-968.13	78.13	-255.68	0	-864.89	2	-257.75	2	17.11	2.35	25.72
18	18	18.80	-970.37	55.13	-255.81	0	-866.26	2	-258.74	2	16.89	2.35	25.50
18	19	19.98	-970.37	63.72	-325.76	0	-936.99	2	-143.36	2	17.96	2.35	27.11
19	19	19.98	-970.37	63.72	-325.76	0	-958.30	2	-63.83	2	0.00	2.35	0.00
19	20	21.15	-970.37	68.79	-403.70	0	-1038.51	2	69.98	2	0.00	2.35	0.00
20	20	21.15	-526.55	68.89	-102.42	0	-443.50	2	-162.27	2	0.00	2.35	0.00
20	21	22.33	-526.55	73.96	-186.35	0	-529.87	2	-18.19	2	0.00	2.35	0.00
21	21	22.33	-526.55	73.96	-186.35	0	-529.87	2	-18.19	2	0.00	2.35	0.00
21	22	22.50	-526.55	74.72	-199.35	0	-543.25	2	4.14	2	0.00	2.35	0.00
22	22	22.50	-655.90	74.72	358.88	0	-51.86	2	-1037.28	2	0.00	2.35	0.00
22	23	23.50	-655.90	84.48	279.28	0	-133.77	2	-900.62	2	0.00	2.35	0.00
23	1023	23.50	-655.90	-98.98	279.28	0	-133.77	2	-900.62	2	0.00	2.35	0.00
23	24	24.50	-655.90	-89.22	373.38	0	-36.94	2	-1062.17	2	0.00	2.35	0.00
24	24	24.50	-566.83	-89.22	-213.05	0	-583.20	2	1.78	2	0.00	2.35	0.00
24	25	24.95	-566.83	-87.28	-173.33	0	-542.33	2	-66.40	2	0.00	2.35	0.00
25	25	24.95	-566.83	-87.28	-173.33	0	-542.33	2	-66.40	2	0.00	2.35	0.00
25	26	26.40	-566.83	-81.02	-51.34	0	-416.80	2	-275.84	2	0.00	2.35	0.00
26	26	26.40	-1050.30	-81.00	-380.01	0	-1065.45	2	-22.02	2	0.00	2.35	0.00
26	27	27.85	-1050.30	-74.73	-267.09	0	-949.26	2	-215.87	2	0.00	2.35	0.00
27	27	27.85	-1050.30	-74.73	-267.09	0	-925.40	2	-305.88	2	0.00	2.35	0.00
27	28	29.30	-1050.30	-64.15	-166.39	0	-822.10	2	-477.53	2	20.50	2.35	30.41
28	28	29.30	-1451.47	-91.97	-428.85	0	-1349.81	2	-284.57	2	20.22	2.35	30.45
28	29	30.75	-1451.69	-81.38	-302.82	0	-1220.59	2	-499.83	2	20.26	2.35	30.02
29	29	30.75	-1451.69	-81.38	-302.82	0	-1387.74	2	-577.60	2	19.97	2.35	26.17
29	30	32.20	-1451.88	-70.79	-192.14	0	-1267.97	2	-802.46	2	16.52	2.35	25.80
30	30	32.20	-1452.95	-42.99	-192.27	0	-1268.92	2	-802.98	2	16.29	2.35	25.80
30	31	33.65	-1452.95	-32.40	-137.62	0	-1209.89	2	-913.13	2	16.29	2.35	25.42
31	31	33.65	-1452.95	-32.40	-137.62	0	-1209.89	2	-913.13	2	16.05	2.35	25.42
31	32	35.10	-1452.95	-21.82	-98.32	0	-1167.56	2	-991.87	2	16.05	2.35	25.05
32	32	35.10	-1452.95	-21.82	-98.32	0	-1167.56	2	-991.87	2	15.81	2.35	25.05
32	33	36.55	-1452.95	-11.22	-74.38	0	-1141.90	2	-1039.24	2	15.81	2.35	24.67
33	33	36.55	-1452.95	-11.22	-74.38	0	-1141.90	2	-1039.24	2	15.58	2.35	24.67
33	34	38.00	-1452.95	-0.64	-65.78	0	-1132.92	2	-1055.21	2	15.58	2.35	24.30
34	34	38.00	-1452.95	-0.64	-65.78	0	-1132.92	2	-1055.21	2	15.34	2.35	24.30
34	35	39.45	-1452.95	9.94	-72.53	0	-1140.63	2	-1039.78	2	15.34	2.35	23.92
35	35	39.45	-1452.95	9.94	-72.53	0	-1140.63	2	-1039.78	2	15.10	2.35	23.92
35	36	40.90	-1452.95	20.54	-94.64	0	-1165.02	2	-992.96	2	15.10	2.35	23.55
36	36	40.90	-1452.95	20.54	-94.64	0	-1165.02	2	-992.96	2	14.87	2.35	23.55
36	37	42.35	-1452.95	31.12	-132.10	0	-1206.08	2	-914.76	2	14.87	2.35	23.18
37	37	42.35	-1452.95	31.12	-132.10	0	-1206.08	2	-914.76	2	14.63	2.35	23.18
37	38	43.80	-1452.95	41.71	-184.90	0	-1263.83	2	-805.16	2	14.63	2.35	22.80
38	38	43.80	-1451.88	69.52	-184.77	0	-1262.88	2	-804.64	2	14.39	2.35	22.80
38	39	45.25	-1451.69	80.11	-293.60	0	-1381.37	2	-580.32	2	14.39	2.35	22.43
											14.16	2.35	

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F4.T0.MZ-
Construcción sin gradiente en fase constructiva 4
(1; 1)Vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1451.69	80.11	-293.60	0	-1214.42	2	-503.12	2	17.11	2.35	25.72
39	40	46.70	-1451.47	90.70	-417.78	0	-1342.40	2	-288.52	2	16.83	2.35	25.29
40	40	46.70	-1050.04	62.91	-155.32	0	-814.60	2	-481.38	2	16.87	2.35	25.33
40	41	48.15	-1050.04	73.49	-254.19	0	-916.67	2	-310.40	2	16.58	2.35	24.90
41	41	48.15	-1050.04	73.49	-254.19	0	-935.81	2	-237.85	2	0.00	2.35	0.00
41	42	49.60	-1050.04	79.76	-365.27	0	-1050.12	2	-47.16	2	0.00	2.35	0.00
42	42	49.60	-566.83	79.74	-36.60	0	-401.63	2	-301.14	2	0.00	2.35	0.00
42	43	51.05	-566.83	86.00	-156.74	0	-525.26	2	-94.88	2	0.00	2.35	0.00
43	43	51.05	-566.83	86.00	-156.74	0	-525.26	2	-94.88	2	0.00	2.35	0.00
43	44	51.50	-566.83	87.94	-195.89	0	-565.54	2	-27.68	2	0.00	2.35	0.00
44	44	51.50	-655.90	87.94	390.54	0	-19.28	2	-1091.63	2	0.00	2.35	0.00
44	45	52.50	-655.90	97.70	297.72	0	-114.80	2	-932.27	2	0.00	2.35	0.00
45	1045	52.50	-655.90	-98.29	297.72	0	-114.80	2	-932.27	2	0.00	2.35	0.00
45	46	53.50	-655.90	-88.53	391.12	0	-18.68	2	-1092.63	2	0.00	2.35	0.00
46	46	53.50	-566.83	-88.53	-195.30	0	-564.94	2	-28.68	2	0.00	2.35	0.00
46	47	53.95	-566.83	-86.59	-155.89	0	-524.39	2	-96.33	2	0.00	2.35	0.00
47	47	53.95	-566.83	-86.59	-155.89	0	-524.39	2	-96.33	2	0.00	2.35	0.00
47	48	55.40	-566.83	-80.33	-34.91	0	-399.90	2	-304.03	2	0.00	2.35	0.00
48	48	55.40	-1050.16	-80.33	-363.58	0	-1048.46	2	-50.12	2	0.00	2.35	0.00
8	49	56.85	-1050.16	-74.06	-251.67	0	-933.30	2	-242.25	2	0.00	2.35	0.00
9	49	56.85	-1050.16	-74.06	-251.67	0	-915.02	2	-311.34	2	15.76	2.35	23.69
49	50	58.30	-1050.16	-63.47	-151.96	0	-812.39	2	-482.63	2	15.79	2.35	23.73
50	50	58.30	-1451.47	-91.28	-414.42	0	-1340.15	2	-289.73	2	15.78	2.35	23.72
50	51	59.75	-1451.69	-80.69	-289.38	0	-1211.60	2	-504.62	2	15.81	2.35	23.76
51	51	59.75	-1451.69	-80.69	-289.38	0	-1378.46	2	-581.57	2	13.08	2.35	20.71
51	52	61.20	-1451.88	-70.10	-179.72	0	-1259.39	2	-806.13	2	13.10	2.35	20.75
52	52	61.20	-1452.95	-42.30	-179.85	0	-1260.34	2	-806.65	2	13.10	2.35	20.75
52	53	62.65	-1452.95	-31.71	-126.20	0	-1202.01	2	-916.51	2	13.12	2.35	20.78
53	53	62.65	-1452.95	-31.71	-126.20	0	-1202.01	2	-916.51	2	13.12	2.35	20.78
53	54	64.10	-1452.95	-21.13	-87.91	0	-1160.37	2	-994.95	2	13.14	2.35	20.81
54	54	64.10	-1452.95	-21.13	-87.91	0	-1160.37	2	-994.95	2	13.14	2.35	20.81
54	55	65.55	-1452.95	-10.53	-64.95	0	-1135.40	2	-1042.02	2	13.16	2.35	20.84
55	55	65.55	-1452.95	-10.53	-64.95	0	-1135.40	2	-1042.02	2	13.16	2.35	20.84
55	56	67.00	-1452.95	0.06	-57.36	0	-1127.11	2	-1057.70	2	13.18	2.35	20.88
56	56	67.00	-1452.95	0.06	-57.36	0	-1127.11	2	-1057.70	2	13.18	2.35	20.88
56	57	68.45	-1452.95	10.64	-65.12	0	-1135.51	2	-1041.97	2	13.20	2.35	20.91
57	57	68.45	-1452.95	10.64	-65.12	0	-1135.51	2	-1041.97	2	13.20	2.35	20.91
57	58	69.90	-1452.95	21.24	-88.23	0	-1160.59	2	-994.85	2	13.22	2.35	20.94
58	58	69.90	-1452.95	21.24	-88.23	0	-1160.59	2	-994.85	2	13.22	2.35	20.94
58	59	71.35	-1452.95	31.82	-126.67	0	-1202.34	2	-916.37	2	13.24	2.35	20.97
59	59	71.35	-1452.95	31.82	-126.67	0	-1202.34	2	-916.37	2	13.24	2.35	20.97
59	60	72.80	-1452.95	42.41	-180.49	0	-1260.78	2	-806.47	2	13.26	2.35	21.01
60	60	72.80	-1451.88	70.21	-180.35	0	-1259.84	2	-805.94	2	13.26	2.35	21.01
60	61	74.25	-1451.69	80.80	-290.19	0	-1379.02	2	-581.33	2	13.28	2.35	21.04
61	61	74.25	-1451.69	80.80	-290.19	0	-1212.14	2	-504.34	2	16.06	2.35	24.13
	62	75.70	-1451.47	91.39	-415.37	0	-1340.79	2	-289.39	2	16.08	2.35	24.17
	62	75.70	-1050.18	63.59	-152.91	0	-813.04	2	-482.30	2	16.08	2.35	24.17
62	63	77.15	-1050.18	74.17	-252.78	0	-915.78	2	-310.95	2	16.10	2.35	24.20
63	63	77.15	-1050.18	74.17	-252.78	0	-934.45	2	-240.36	2	0.00	2.35	0.00
63	64	78.60	-1050.18	80.44	-364.86	0	-1049.79	2	-47.95	2	0.00	2.35	0.00
64	64	78.60	-566.83	80.44	-36.19	0	-401.21	2	-301.84	2	0.00	2.35	0.00
64	65	80.05	-566.83	86.70	-157.34	0	-525.87	2	-93.86	2	0.00	2.35	0.00
65	65	80.05	-566.83	86.70	-157.34	0	-525.87	2	-93.86	2	0.00	2.35	0.00
65	66	80.50	-566.83	88.64	-196.79	0	-566.47	2	-26.13	2	0.00	2.35	0.00
66	66	80.50	-655.90	88.64	389.64	0	-20.21	2	-1090.08	2	0.00	2.35	0.00
66	67	81.50	-655.90	98.40	296.12	0	-116.44	2	-929.54	2	0.00	2.35	0.00
67	1067	81.50	-655.90	-106.57	296.12	0	-116.44	2	-929.54	2	0.00	2.35	0.00
67	68	82.50	-655.90	-96.81	397.80	0	-11.81	2	-1104.10	2	0.00	2.35	0.00
68	68	82.50	-647.39	-96.81	-245.01	0	-667.82	2	4.93	2	0.00	2.35	0.00
68	69	83.08	-647.39	-94.33	-190.06	0	-611.27	2	-89.41	2	0.00	2.35	0.00
69	69	83.08	-647.39	-94.33	-190.06	0	-611.27	2	-89.41	2	0.00	2.35	0.00
69	70	84.65	-647.39	-87.52	-46.88	0	-463.93	2	-335.22	2	0.00	2.35	0.00
70	70	84.65	-1211.32	-87.51	-430.33	0	-1220.63	2	-39.03	2	0.00	2.35	0.00
70	71	86.23	-1211.32	-80.71	-297.83	0	-1084.29	2	-266.49	2	0.00	2.35	0.00
71	71	86.23	-1211.32	-80.71	-297.83	0	-1065.88	2	-336.02	2	15.85	2.35	23.83
71	72	87.80	-1211.32	-69.21	-179.77	0	-944.51	2	-538.24	2	15.75	2.35	23.67
72	72	87.80	-1773.68	-100.50	-547.27	0	-1683.79	2	-268.43	2	15.76	2.35	23.69
72	73	89.38	-1773.90	-88.99	-397.63	0	-1530.06	2	-525.02	2	15.65	2.35	23.53
73	73	89.38	-1773.90	-88.99	-397.63	0	-1736.93	2	-600.00	2	12.95	2.35	20.51
73	74	90.95	-1774.09	-77.49	-266.10	0	-1594.27	2	-868.53	2	12.86	2.35	20.38
	74	90.95	-1775.17	-46.22	-266.25	0	-1595.24	2	-869.04	2	12.86	2.35	20.38
74	75	92.53	-1775.17	-34.71	-202.52	0	-1526.12	2	-998.77	2	12.78	2.35	20.24
75	75	92.53	-1775.17	-34.71	-202.52	0	-1526.12	2	-998.77	2	12.78	2.35	20.24
75	76	94.10	-1775.17	-23.21	-156.89	0	-1476.68	2	-1091.45	2	12.69	2.35	20.10
76	76	94.10	-1775.17	-23.21	-156.89	0	-1476.68	2	-1091.45	2	12.69	2.35	20.10
76	77	95.68	-1775.17	-11.72	-129.39	0	-1446.93	2	-1147.10	2	12.60	2.35	19.96

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F4.T0.MZ-
Construcción sin gradiente en fase constructiva 4
1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To
ef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1775.17	-11.72	-129.39	0	-1446.93	2	-1147.10	2	12.60	2.35	19.96
77	78	97.25	-1775.17	-0.22	-120.01	0	-1436.87	2	-1165.71	2	12.52	2.35	19.83
78	78	97.25	-1775.17	-0.22	-120.01	0	-1436.87	2	-1165.71	2	12.52	2.35	19.83
78	79	98.83	-1775.17	11.28	-128.72	0	-1446.47	2	-1147.30	2	12.43	2.35	19.69
79	79	98.83	-1775.17	11.28	-128.72	0	-1446.47	2	-1147.30	2	12.43	2.35	19.69
79	80	100.40	-1775.17	22.77	-155.54	0	-1475.75	2	-1091.86	2	12.34	2.35	19.55
80	80	100.40	-1775.17	22.77	-155.54	0	-1475.75	2	-1091.86	2	12.34	2.35	19.55
80	81	101.98	-1775.17	34.27	-200.49	0	-1524.72	2	-999.36	2	12.26	2.35	19.42
81	81	101.98	-1775.17	34.27	-200.49	0	-1524.72	2	-999.36	2	12.26	2.35	19.42
81	82	103.55	-1775.17	45.78	-263.54	0	-1593.37	2	-869.84	2	12.17	2.35	19.28
82	82	103.55	-1774.09	77.05	-263.39	0	-1592.40	2	-869.33	2	12.17	2.35	19.28
82	83	105.13	-1773.90	88.55	-394.25	0	-1734.59	2	-600.99	2	12.08	2.35	19.14
83	83	105.13	-1773.90	88.55	-394.25	0	-1527.80	2	-526.23	2	14.61	2.35	21.95
83	84	106.70	-1773.68	100.06	-543.21	0	-1681.08	2	-269.88	2	14.50	2.35	21.79
84	84	106.70	-1211.24	68.79	-175.71	0	-941.76	2	-539.66	2	14.51	2.35	21.81
84	85	108.28	-1211.24	80.29	-293.10	0	-1062.68	2	-337.68	2	14.41	2.35	21.65
85	85	108.28	-1211.24	80.29	-293.10	0	-1079.37	2	-274.55	2	0.00	2.35	0.00
85	86	109.85	-1211.24	87.09	-424.91	0	-1215.00	2	-48.26	2	0.00	2.35	0.00
86	86	109.85	-647.39	87.08	-41.46	0	-458.36	2	-344.51	2	0.00	2.35	0.00
86	87	111.43	-647.39	93.89	-183.97	0	-605.01	2	-99.85	2	0.00	2.35	0.00
87	87	111.43	-647.39	93.89	-183.97	0	-605.01	2	-99.85	2	0.00	2.35	0.00
87	88	112.00	-647.39	96.37	-238.69	0	-661.32	2	-5.91	2	0.00	2.35	0.00
88	88	112.00	-655.90	96.37	404.12	0	-5.31	2	-1114.94	2	0.00	2.35	0.00
88	89	113.00	-655.90	106.13	302.89	0	-109.48	2	-941.15	2	0.00	2.35	0.00
89	1089	113.00	-655.90	-105.69	302.89	0	-109.48	2	-941.15	2	0.00	2.35	0.00
89	90	114.00	-655.90	-95.93	403.70	0	-5.74	2	-1114.22	2	0.00	2.35	0.00
90	90	114.00	-647.39	-95.93	-239.11	0	-661.75	2	-5.19	2	0.00	2.35	0.00
90	91	114.58	-647.39	-93.45	-184.68	0	-605.74	2	-98.64	2	0.00	2.35	0.00
91	91	114.58	-647.39	-93.45	-184.68	0	-605.74	2	-98.64	2	0.00	2.35	0.00
91	92	116.15	-647.39	-86.64	-42.86	0	-459.80	2	-342.11	2	0.00	2.35	0.00
92	92	116.15	-1211.15	-86.65	-426.31	0	-1216.39	2	-45.81	2	0.00	2.35	0.00
92	93	117.73	-1211.15	-79.85	-295.19	0	-1081.46	2	-270.91	2	0.00	2.35	0.00
93	93	117.73	-1211.15	-79.85	-295.19	0	-1064.05	2	-336.90	2	0.00	2.35	0.00
93	94	119.30	-1211.15	-68.35	-178.51	0	-943.60	2	-538.63	2	15.09	2.35	22.66
94	94	119.30	-1773.68	-99.62	-546.01	0	-1682.95	2	-268.88	2	15.41	2.35	23.14
94	95	120.88	-1773.90	-88.11	-397.75	0	-1530.14	2	-524.98	2	15.37	2.35	23.10
95	95	120.88	-1773.90	-88.11	-397.75	0	-1737.01	2	-599.96	2	15.69	2.35	23.58
95	96	122.45	-1774.09	-76.61	-267.57	0	-1595.29	2	-868.11	2	12.98	2.35	20.56
96	96	122.45	-1775.17	-45.34	-267.72	0	-1596.25	2	-868.62	2	13.25	2.35	20.98
96	97	124.03	-1775.17	-33.83	-205.37	0	-1528.08	2	-997.94	2	13.25	2.35	20.98
97	97	124.03	-1775.17	-33.83	-205.37	0	-1528.08	2	-997.94	2	13.51	2.35	21.40
97	98	125.60	-1775.17	-22.33	-161.14	0	-1479.61	2	-1090.21	2	13.51	2.35	21.40
98	98	125.60	-1775.17	-22.33	-161.14	0	-1479.61	2	-1090.21	2	13.78	2.35	21.83
98	99	127.18	-1775.17	-10.84	-134.99	0	-1450.79	2	-1145.49	2	13.78	2.35	21.83
99	99	127.18	-1775.17	-10.84	-134.99	0	-1450.79	2	-1145.49	2	14.04	2.35	22.25
99	100	128.75	-1775.17	0.66	-126.98	0	-1441.67	2	-1163.69	2	14.04	2.35	22.25
100	100	128.75	-1775.17	0.66	-126.98	0	-1441.67	2	-1163.69	2	14.31	2.35	22.67
100	101	130.33	-1775.17	12.16	-137.06	0	-1452.22	2	-1144.87	2	14.31	2.35	22.67
101	101	130.33	-1775.17	12.16	-137.06	0	-1452.22	2	-1144.87	2	14.58	2.35	23.09
101	102	131.90	-1775.17	23.65	-165.29	0	-1482.48	2	-1088.98	2	14.58	2.35	23.09
102	102	131.90	-1775.17	23.65	-165.29	0	-1482.48	2	-1088.98	2	14.84	2.35	23.51
102	103	133.48	-1775.17	35.15	-211.60	0	-1532.39	2	-996.08	2	14.84	2.35	23.51
103	103	133.48	-1775.17	35.15	-211.60	0	-1532.39	2	-996.08	2	15.11	2.35	23.93
103	104	135.05	-1775.17	46.66	-276.02	0	-1601.98	2	-866.17	2	15.11	2.35	23.93
104	104	135.05	-1774.09	77.93	-275.87	0	-1601.01	2	-865.66	2	15.37	2.35	24.35
104	105	136.63	-1773.90	89.43	-408.11	0	-1744.16	2	-596.90	2	15.37	2.35	24.35
105	105	136.63	-1773.90	89.43	-408.11	0	-1537.08	2	-521.28	2	15.64	2.35	24.77
105	106	138.20	-1773.68	100.94	-558.46	0	-1691.28	2	-264.43	2	18.91	2.35	28.42
106	106	138.20	-1211.41	69.65	-190.96	0	-952.03	2	-534.28	2	19.23	2.35	28.90
106	107	139.78	-1211.41	81.15	-309.71	0	-1073.86	2	-331.81	2	19.19	2.35	28.86
107	107	139.78	-1211.41	81.15	-309.71	0	-1096.57	2	-246.15	2	19.51	2.35	29.34
107	108	141.35	-1211.41	87.95	-442.90	0	-1233.62	2	-17.50	2	0.00	2.35	0.00
108	108	141.35	-647.39	87.96	-59.45	0	-476.87	2	-313.63	2	0.00	2.35	0.00
108	109	142.93	-647.39	94.77	-203.33	0	-624.93	2	-66.62	2	0.00	2.35	0.00
109	109	142.93	-647.39	94.77	-203.33	0	-624.93	2	-66.62	2	0.00	2.35	0.00
109	110	143.50	-647.39	97.25	-258.56	0	-681.76	2	28.19	2	0.00	2.35	0.00
110	110	143.50	-655.90	97.25	384.25	0	-25.75	2	-1080.84	2	0.00	2.35	0.00
110	111	144.50	-655.90	107.01	282.14	0	-130.83	2	-905.53	2	0.00	2.35	0.00
111	1111	144.50	-655.90	-84.36	282.14	0	-130.83	2	-905.53	2	0.00	2.35	0.00
111	112	145.50	-655.90	-74.60	361.63	0	-49.03	2	-1041.99	2	0.00	2.35	0.00
112	112	145.50	-526.55	-74.60	-196.60	0	-540.42	2	-0.58	2	0.00	2.35	0.00
112	113	145.68	-526.55	-73.84	-183.63	0	-527.07	2	-22.85	2	0.00	2.35	0.00
113	113	145.68	-526.55	-73.84	-183.63	0	-527.07	2	-22.85	2	0.00	2.35	0.00
113	114	146.85	-526.55	-68.77	-99.85	0	-440.85	2	-166.69	2	0.00	2.35	0.00
114	114	146.85	-970.34	-68.67	-401.13	0	-1035.84	2	65.58	2	0.00	2.35	0.00
114	115	148.03	-970.34	-63.60	-323.33	0	-955.78	2	-67.98	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:

CONST1.F4.T0.MZ-

Construcción sin gradiente en fase constructiva 4

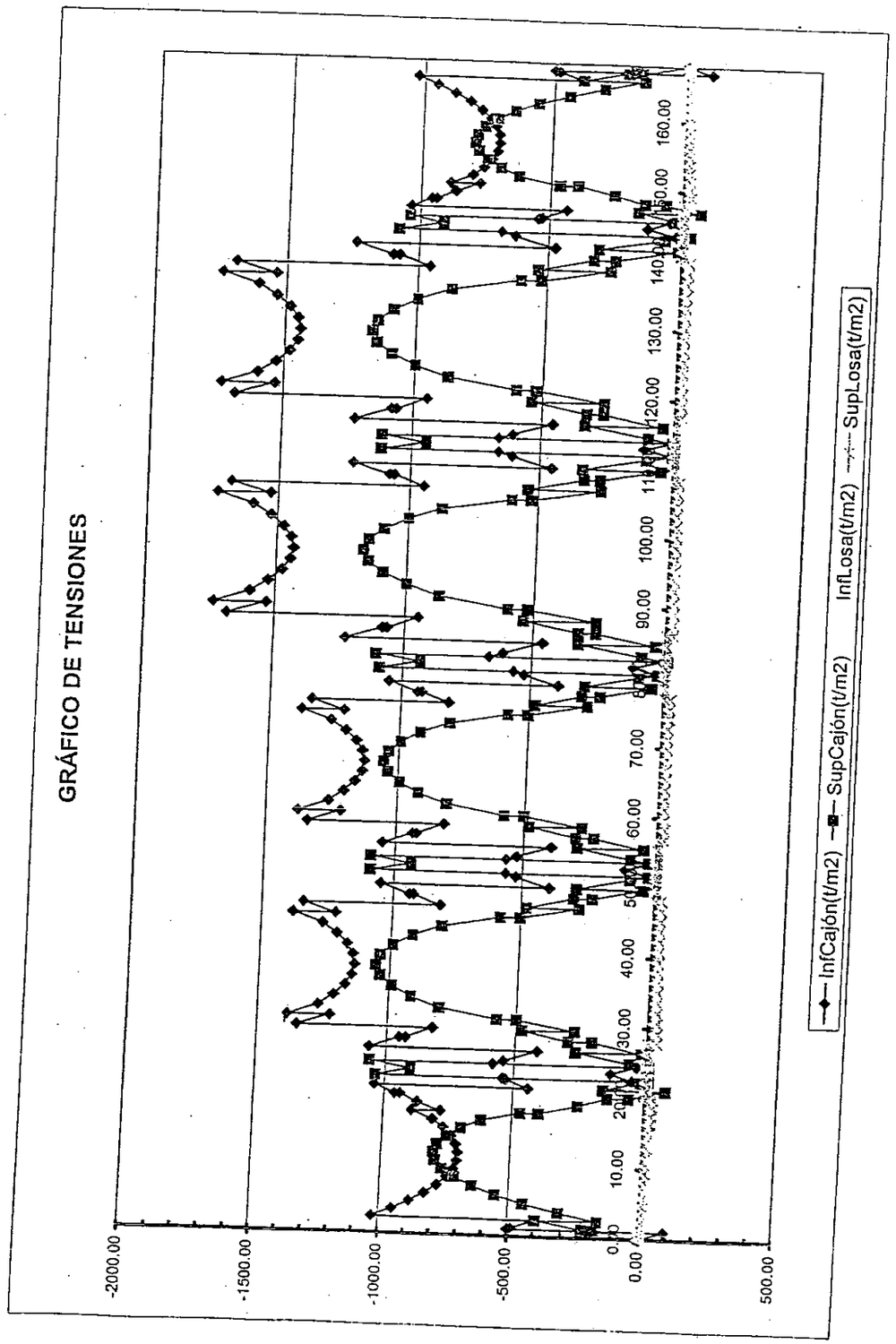
1.35 * [95; 1.05]fase1.fSO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.fSO.To + [.9; 1.1]fase4.HIP.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-970.34	-63.60	-323.33	0	-935.35	2	-144.22	2	17.21	2.35	25.99
115	116	149.20	-970.34	-55.01	-253.52	0	-864.71	2	-259.55	2	16.19	2.35	24.44
116	116	149.20	-968.13	-78.01	-253.39	0	-863.35	2	-258.57	2	16.40	2.35	24.66
116	117	150.38	-968.34	-69.43	-166.55	0	-775.31	2	-403.30	2	15.38	2.35	23.12
117	117	150.38	-968.34	-69.43	-166.55	0	-884.52	2	-469.41	2	12.72	2.35	20.15
117	118	151.55	-968.54	-60.85	-89.78	0	-802.56	2	-620.74	2	11.87	2.35	18.81
118	118	151.55	-969.61	-37.95	-89.91	0	-803.51	2	-621.30	2	11.88	2.35	18.82
118	119	152.73	-969.61	-29.37	-50.36	0	-761.84	2	-696.38	2	11.03	2.35	17.47
119	119	152.73	-969.61	-29.37	-50.36	0	-761.84	2	-696.38	2	11.03	2.35	17.47
119	120	153.90	-969.61	-20.79	-20.90	0	-731.13	2	-750.85	2	10.18	2.35	16.13
120	120	153.90	-969.61	-20.79	-20.90	0	-731.13	2	-750.85	2	10.18	2.35	16.13
120	121	155.08	-969.61	-12.21	-1.52	0	-711.39	2	-784.69	2	9.33	2.35	14.79
121	121	155.08	-969.61	-12.21	-1.52	0	-711.39	2	-784.69	2	9.33	2.35	14.79
121	122	156.25	-969.61	-3.64	7.79	0	-702.59	2	-797.92	2	8.48	2.35	13.44
122	122	156.25	-969.61	-3.64	7.79	0	-702.59	2	-797.92	2	8.48	2.35	13.44
122	123	157.43	-969.61	4.95	7.01	0	-704.75	2	-790.55	2	7.64	2.35	12.10
123	123	157.43	-969.61	4.95	7.01	0	-704.75	2	-790.55	2	7.64	2.35	12.10
123	124	158.60	-969.61	13.52	-3.84	0	-717.85	2	-762.57	2	6.79	2.35	10.75
124	124	158.60	-969.61	13.52	-3.84	0	-717.85	2	-762.57	2	6.79	2.35	10.75
[illegible]	125	159.78	-969.61	22.10	-24.78	0	-741.91	2	-713.96	2	5.94	2.35	9.41
[illegible]	125	159.78	-969.61	22.10	-24.78	0	-741.91	2	-713.96	2	5.94	2.35	9.41
125	126	160.95	-969.61	30.68	-55.80	0	-776.93	2	-644.75	2	5.09	2.35	8.07
126	126	160.95	-969.61	30.68	-55.80	0	-776.93	2	-644.75	2	5.09	2.35	8.07
126	127	162.13	-969.61	39.26	-96.89	0	-822.89	2	-554.94	2	4.24	2.35	6.72
127	127	162.13	-969.61	39.26	-96.89	0	-822.89	2	-554.94	2	4.24	2.35	6.72
127	128	163.30	-969.61	47.84	-148.08	0	-879.82	2	-444.48	2	3.40	2.35	5.38
128	128	163.30	-969.61	47.84	-148.08	0	-879.82	2	-444.48	2	3.40	2.35	5.38
128	129	164.48	-969.61	56.41	-209.32	0	-947.68	2	-313.46	2	2.55	2.35	4.03
129	129	164.48	-969.61	56.41	-209.32	0	-947.68	2	-313.46	2	2.55	2.35	4.03
129	130	165.65	-969.61	65.00	-280.66	0	-1026.52	2	-161.78	2	1.70	2.35	2.69
130	130	165.65	-526.55	65.00	-4.19	0	-395.19	2	-396.24	2	1.70	2.35	2.69
130	131	166.83	-526.55	73.58	-85.60	0	-484.97	2	-223.99	2	0.85	2.35	1.35
131	131	166.83	-526.55	73.58	-85.60	0	-484.97	2	-223.99	2	0.85	2.35	1.35
131	132	167.00	-526.55	74.85	-98.61	0	-499.30	2	-196.53	2	0.72	2.35	1.14
132	132	167.00	0.00	74.85	81.85	0	90.06	2	-172.31	2	0.72	2.35	1.14
132	133	168.00	0.00	89.39	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

Programa DINTEL IDEAM S.A.
CONST1.F4.T0.MZ-

GRÁFICO DE TENSIONES



combi_t0.xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F5.T0.MZ+

Construcción sin gradiente en fase constructiva 5

[... Vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-89.27	0.00	0	0.00	2	0.00	2	0.00	2.35	0.0(
1	2	1.00	0.00	-75.25	82.27	0	90.36	2	-172.47	2	0.62	2.35	0.9
2	2	1.00	-476.41	-75.25	-81.01	0	-442.87	2	-194.38	2	0.62	2.35	0.9
2	3	1.18	-476.41	-73.98	-67.95	0	-428.52	2	-221.82	2	0.73	2.35	1.1
3	3	1.18	-476.41	-73.98	-67.95	0	-428.52	2	-221.82	2	0.73	2.35	1.1
3	4	2.35	-476.41	-65.40	13.92	0	-338.42	2	-394.21	2	1.46	2.35	2.3
4	4	2.35	-877.27	-65.40	-236.21	0	-909.62	2	-182.08	2	1.46	2.35	2.3
4	5	3.53	-877.27	-56.81	-164.41	0	-830.47	2	-333.89	2	2.19	2.35	3.4
5	5	3.53	-877.27	-56.81	-164.41	0	-830.47	2	-333.89	2	2.19	2.35	3.4
5	6	4.70	-877.27	-48.24	-102.71	0	-762.29	2	-465.05	2	2.92	2.35	4.6
6	6	4.70	-877.27	-48.24	-102.71	0	-762.29	2	-465.05	2	2.92	2.35	4.6
6	7	5.88	-877.27	-39.66	-51.05	0	-705.03	2	-575.65	2	3.65	2.35	5.7
7	7	5.88	-877.27	-39.66	-51.05	0	-705.03	2	-575.65	2	3.65	2.35	5.7
7	8	7.05	-877.27	-31.08	-9.49	0	-658.74	2	-665.60	2	4.37	2.35	6.9
8	8	7.05	-877.27	-31.08	-9.49	0	-658.74	2	-665.60	2	4.37	2.35	6.9
8	9	8.23	-877.27	-22.50	21.99	0	-623.41	2	-734.95	2	5.10	2.35	8.0
9	9	8.23	-877.27	-22.50	21.99	0	-623.41	2	-734.95	2	5.10	2.35	8.0
9	10	9.40	-877.27	-13.92	43.40	0	-599.02	2	-783.70	2	5.83	2.35	9.2
10	10	9.40	-877.27	-13.92	43.40	0	-599.02	2	-783.70	2	5.83	2.35	9.2
10	11	10.58	-877.27	-5.35	54.71	0	-585.60	2	-811.81	2	6.56	2.35	10.4
11	11	10.58	-877.27	-5.35	54.71	0	-585.60	2	-811.81	2	6.56	2.35	10.4
11	12	11.75	-877.27	3.24	55.95	0	-583.12	2	-819.32	2	7.29	2.35	11.5
12	12	11.75	-877.27	3.24	55.95	0	-583.12	2	-819.32	2	7.29	2.35	11.5
12	13	12.93	-877.27	11.81	47.12	0	-591.60	2	-806.23	2	8.02	2.35	12.7
13	13	12.93	-877.27	11.81	47.12	0	-591.60	2	-806.23	2	8.02	2.35	12.7
13	14	14.10	-877.27	20.39	28.20	0	-611.02	2	-772.53	2	8.75	2.35	13.8
14	14	14.10	-877.27	20.39	28.20	0	-611.02	2	-772.53	2	8.75	2.35	13.8
14	15	15.28	-877.27	28.97	-0.79	0	-641.41	2	-718.19	2	9.48	2.35	15.0
15	15	15.28	-877.27	28.97	-0.79	0	-641.41	2	-718.19	2	9.48	2.35	15.0
15	16	16.45	-877.27	37.55	-39.88	0	-682.76	2	-643.24	2	10.21	2.35	16.1
16	16	16.45	-876.22	58.27	-39.77	0	-681.84	2	-642.68	2	10.20	2.35	16.1
16	17	17.63	-876.02	66.85	-113.48	0	-760.67	2	-496.77	2	10.93	2.35	17.3
17	17	17.63	-876.02	66.85	-113.48	0	-663.93	2	-425.64	2	13.22	2.35	19.8
17	18	18.80	-875.81	75.43	-197.27	0	-749.01	2	-285.51	2	14.10	2.35	21.1
18	18	18.80	-877.89	54.63	-197.40	0	-750.30	2	-286.46	2	13.91	2.35	21.0
18	19	19.98	-877.89	63.22	-266.72	0	-820.62	2	-171.30	2	14.79	2.35	22.3
19	19	19.98	-877.89	63.22	-266.72	0	-838.17	2	-105.79	2	0.00	2.35	0.0
19	20	21.15	-878.83	71.79	-346.19	0	-920.55	2	30.03	2	0.00	2.35	0.0
20	20	21.15	-476.41	71.99	-73.61	0	-381.65	2	-179.54	2	0.00	2.35	0.0
20	21	22.33	-476.41	80.57	-163.24	0	-473.89	2	-25.65	2	0.00	2.35	0.0
21	21	22.33	-476.41	80.57	-163.24	0	-473.89	2	-25.65	2	0.00	2.35	0.0
21	22	22.50	-476.41	81.85	-177.46	0	-488.52	2	-1.25	2	0.00	2.35	0.0
22	22	22.50	-801.66	81.85	438.17	0	-63.85	2	-1267.00	2	0.00	2.35	0.0
22	23	23.50	-801.66	94.59	349.95	0	-154.64	2	-1115.54	2	0.00	2.35	0.0
23	1023	23.50	-801.66	-111.78	349.95	0	-154.64	2	-1115.54	2	0.00	2.35	0.0
23	24	24.50	-801.66	-99.03	455.36	0	-46.16	2	-1296.51	2	0.00	2.35	0.0
24	24	24.50	-512.85	-99.03	-185.78	0	-520.48	2	-10.37	2	0.00	2.35	0.0
24	25	24.95	-512.85	-95.75	-141.95	0	-475.38	2	-85.61	2	0.00	2.35	0.0
25	25	24.95	-512.85	-95.75	-141.95	0	-475.38	2	-85.61	2	0.00	2.35	0.0
25	26	26.40	-512.85	-85.17	-10.80	0	-340.41	2	-310.77	2	0.00	2.35	0.0
26	26	26.40	-951.16	-85.05	-308.16	0	-927.87	2	-81.70	2	0.00	2.35	0.0
26	27	27.85	-950.23	-74.46	-192.44	0	-808.18	2	-279.78	2	0.00	2.35	0.0
27	27	27.85	-950.23	-74.46	-192.44	0	-791.77	2	-341.70	2	14.11	2.35	21.2
27	28	29.30	-950.23	-63.88	-92.13	0	-688.74	2	-513.20	2	13.95	2.35	20.9
28	28	29.30	-1313.11	-89.05	-329.59	0	-1166.13	2	-338.57	2	13.97	2.35	21.0
28	29	30.75	-1313.33	-78.46	-207.82	0	-1041.16	2	-547.03	2	13.80	2.35	20.7
29	29	30.75	-1313.33	-78.46	-207.82	0	-1189.06	2	-633.73	2	11.42	2.35	18.0
29	30	32.20	-1313.53	-67.87	-101.42	0	-1073.78	2	-850.56	2	11.28	2.35	17.8
30	30	32.20	-1314.57	-42.71	-101.54	0	-1074.70	2	-851.09	2	11.28	2.35	17.8
30	31	33.65	-1314.57	-32.12	-47.27	0	-1015.94	2	-961.12	2	11.15	2.35	17.6
31	31	33.65	-1314.57	-32.12	-47.27	0	-1015.94	2	-961.12	2	11.15	2.35	17.6
31	32	35.10	-1314.57	-21.54	-8.38	0	-973.88	2	-1039.74	2	11.01	2.35	17.4
32	32	35.10	-1314.57	-21.54	-8.38	0	-973.88	2	-1039.74	2	11.01	2.35	17.4
32	33	36.55	-1314.57	-10.94	15.17	0	-948.50	2	-1086.99	2	10.88	2.35	17.2
33	33	36.55	-1314.57	-10.94	15.17	0	-948.50	2	-1086.99	2	10.88	2.35	17.2
33	34	38.00	-1314.57	-0.36	23.39	0	-939.78	2	-1102.85	2	10.74	2.35	17.0
34	34	38.00	-1314.57	-0.36	23.39	0	-939.78	2	-1102.85	2	10.74	2.35	17.0
34	35	39.45	-1314.57	10.22	16.23	0	-947.77	2	-1087.30	2	10.61	2.35	16.8
35	35	39.45	-1314.57	10.22	16.23	0	-947.77	2	-1087.30	2	10.61	2.35	16.8
35	36	40.90	-1314.57	20.82	-6.26	0	-972.42	2	-1040.37	2	10.47	2.35	16.5
36	36	40.90	-1314.57	20.82	-6.26	0	-972.42	2	-1040.37	2	10.47	2.35	16.5
36	37	42.35	-1314.57	31.40	-44.11	0	-1013.76	2	-962.05	2	10.34	2.35	16.3
37	37	42.35	-1314.57	31.40	-44.11	0	-1013.76	2	-962.05	2	10.34	2.35	16.3
37	38	43.80	-1314.57	41.99	-97.31	0	-1071.78	2	-852.34	2	10.20	2.35	16.1
38	38	43.80	-1313.53	67.14	-97.18	0	-1070.86	2	-851.81	2	10.20	2.35	16.1
38	39	45.25	-1313.33	77.73	-202.54	0	-1185.42	2	-635.29	2	10.06	2.35	15.9

CÁLCULO TENSIONAL
Hipótesis de cálculo:
CONST1.F5.T0.MZ+
Construcción sin gradiente en fase constructiva 5
[... 1]Vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1313.33	77.73	-202.54	0	-1037.62	2	-548.92	2	12.17	2.35	18.29
39	40	46.70	-1313.11	88.32	-323.25	0	-1161.88	2	-340.83	2	12.00	2.35	18.04
40	40	46.70	-950.07	63.18	-85.79	0	-684.43	2	-515.41	2	12.03	2.35	18.06
40	41	48.15	-950.07	73.76	-185.04	0	-786.76	2	-344.29	2	11.86	2.35	17.82
41	41	48.15	-950.07	73.76	-185.04	0	-800.47	2	-292.38	2	0.00	2.35	0.00
41	42	49.60	-951.01	84.36	-299.71	0	-919.08	2	-96.11	2	0.00	2.35	0.00
42	42	49.60	-512.85	84.44	-2.35	0	-331.72	2	-325.28	2	0.00	2.35	0.00
42	43	51.05	-512.85	95.02	-132.44	0	-465.59	2	-101.94	2	0.00	2.35	0.00
43	43	51.05	-512.85	95.02	-132.44	0	-465.59	2	-101.94	2	0.00	2.35	0.00
43	44	51.50	-512.85	98.31	-175.95	0	-510.36	2	-27.25	2	0.00	2.35	0.00
44	44	51.50	-801.66	98.31	465.19	0	-36.05	2	-1313.39	2	0.00	2.35	0.00
44	45	52.50	-801.66	111.05	360.52	0	-143.77	2	-1133.68	2	0.00	2.35	0.00
45	1045	52.50	-801.66	-111.32	360.52	0	-143.77	2	-1133.68	2	0.00	2.35	0.00
45	46	53.50	-801.66	-98.58	465.47	0	-35.76	2	-1313.87	2	0.00	2.35	0.00
46	46	53.50	-512.85	-98.58	-175.67	0	-510.08	2	-27.72	2	0.00	2.35	0.00
46	47	53.95	-512.85	-95.30	-132.05	0	-465.19	2	-102.61	2	0.00	2.35	0.00
47	47	53.95	-512.85	-95.30	-132.05	0	-465.19	2	-102.61	2	0.00	2.35	0.00
47	48	55.40	-512.85	-84.72	-1.57	0	-330.92	2	-326.61	2	0.00	2.35	0.00
48	48	55.40	-951.06	-84.62	-298.94	0	-918.31	2	-97.48	2	0.00	2.35	0.00
48	49	56.85	-950.13	-74.02	-183.87	0	-799.30	2	-294.43	2	0.00	2.35	0.00
49	49	56.85	-950.13	-74.02	-183.87	0	-786.00	2	-344.73	2	11.48	2.35	17.25
49	50	58.30	-950.13	-63.43	-84.21	0	-683.40	2	-516.00	2	11.52	2.35	17.31
50	50	58.30	-1313.11	-88.59	-321.68	0	-1160.83	2	-341.39	2	11.52	2.35	17.31
50	51	59.75	-1313.33	-78.00	-200.58	0	-1036.31	2	-549.62	2	11.56	2.35	17.37
51	51	59.75	-1313.33	-78.00	-200.58	0	-1184.06	2	-635.87	2	9.56	2.35	15.14
51	52	61.20	-1313.53	-67.41	-94.83	0	-1069.24	2	-852.50	2	9.60	2.35	15.20
52	52	61.20	-1314.57	-42.26	-94.96	0	-1070.15	2	-853.03	2	9.60	2.35	15.20
52	53	62.65	-1314.57	-31.67	-41.36	0	-1011.86	2	-962.87	2	9.63	2.35	15.25
53	53	62.65	-1314.57	-31.67	-41.36	0	-1011.86	2	-962.87	2	9.63	2.35	15.25
53	54	64.10	-1314.57	-21.09	-3.12	0	-970.25	2	-1041.29	2	9.66	2.35	15.31
54	54	64.10	-1314.57	-21.09	-3.12	0	-970.25	2	-1041.29	2	9.66	2.35	15.31
54	55	65.55	-1314.57	-10.49	19.77	0	-945.32	2	-1088.35	2	9.70	2.35	15.36
55	55	65.55	-1314.57	-10.49	19.77	0	-945.32	2	-1088.35	2	9.70	2.35	15.36
55	56	67.00	-1314.57	0.10	27.31	0	-937.07	2	-1104.01	2	9.73	2.35	15.42
56	56	67.00	-1314.57	0.10	27.31	0	-937.07	2	-1104.01	2	9.73	2.35	15.42
56	57	68.45	-1314.57	10.68	19.50	0	-945.51	2	-1088.27	2	9.77	2.35	15.47
57	57	68.45	-1314.57	10.68	19.50	0	-945.51	2	-1088.27	2	9.77	2.35	15.47
57	58	69.90	-1314.57	21.28	-3.66	0	-970.63	2	-1041.13	2	9.80	2.35	15.53
58	58	69.90	-1314.57	21.28	-3.66	0	-970.63	2	-1041.13	2	9.80	2.35	15.53
58	59	71.35	-1314.57	31.86	-42.17	0	-1012.42	2	-962.63	2	9.84	2.35	15.58
59	59	71.35	-1314.57	31.86	-42.17	0	-1012.42	2	-962.63	2	9.84	2.35	15.58
59	60	72.80	-1314.57	42.45	-96.04	0	-1070.90	2	-852.71	2	9.87	2.35	15.64
60	60	72.80	-1313.53	67.60	-95.92	0	-1069.98	2	-852.18	2	9.87	2.35	15.64
60	61	74.25	-1313.33	78.19	-201.93	0	-1185.00	2	-635.47	2	9.91	2.35	15.69
61	61	74.25	-1313.33	78.19	-201.93	0	-1037.21	2	-549.13	2	11.98	2.35	18.00
61	62	75.70	-1313.11	88.78	-323.30	0	-1161.92	2	-340.81	2	12.02	2.35	18.06
62	62	75.70	-950.17	63.63	-85.84	0	-684.50	2	-515.43	2	12.01	2.35	18.06
62	63	77.15	-950.17	74.21	-185.76	0	-787.28	2	-344.06	2	12.05	2.35	18.12
63	63	77.15	-950.17	74.21	-185.76	0	-801.27	2	-291.21	2	0.00	2.35	0.00
63	64	78.60	-951.11	84.80	-301.10	0	-920.57	2	-93.79	2	0.00	2.35	0.00
64	64	78.60	-512.85	84.90	-3.73	0	-333.15	2	-322.90	2	0.00	2.35	0.00
64	65	80.05	-512.85	95.49	-134.49	0	-467.70	2	-98.42	2	0.00	2.35	0.00
65	65	80.05	-512.85	95.49	-134.49	0	-467.70	2	-98.42	2	0.00	2.35	0.00
65	66	80.50	-512.85	98.77	-178.19	0	-512.67	2	-23.39	2	0.00	2.35	0.00
66	66	80.50	-801.66	98.77	462.95	0	-38.36	2	-1309.53	2	0.00	2.35	0.00
66	67	81.50	-801.66	111.51	357.81	0	-146.55	2	-1129.04	2	0.00	2.35	0.00
67	1067	81.50	-801.66	-120.59	357.81	0	-146.55	2	-1129.04	2	0.00	2.35	0.00
67	68	82.50	-801.66	-107.85	472.02	0	-29.02	2	-1325.11	2	0.00	2.35	0.00
68	68	82.50	-585.73	-107.85	-220.13	0	-602.63	2	1.81	2	0.00	2.35	0.00
68	69	83.08	-585.73	-103.65	-159.32	0	-540.06	2	-102.58	2	0.00	2.35	0.00
69	69	83.08	-585.73	-103.65	-159.32	0	-540.06	2	-102.58	2	0.00	2.35	0.00
69	70	84.65	-585.73	-92.15	-5.15	0	-381.41	2	-367.26	2	0.00	2.35	0.00
70	70	84.65	-1096.87	-92.05	-352.08	0	-1066.62	2	-99.86	2	0.00	2.35	0.00
70	71	86.23	-1095.94	-80.55	-216.08	0	-926.06	2	-332.76	2	0.00	2.35	0.00
71	71	86.23	-1095.94	-80.55	-216.08	0	-913.84	2	-378.93	2	10.53	2.35	15.83
71	72	87.80	-1095.94	-69.05	-98.27	0	-792.64	2	-581.06	2	10.50	2.35	15.79
72	72	87.80	-1604.64	-97.36	-430.77	0	-1461.45	2	-336.88	2	10.51	2.35	15.79
72	73	89.38	-1604.86	-85.85	-286.10	0	-1312.76	2	-585.25	2	10.48	2.35	15.75
73	73	89.38	-1604.86	-85.85	-286.10	0	-1496.10	2	-672.62	2	8.67	2.35	13.73
73	74	90.95	-1605.05	-74.35	-159.56	0	-1358.76	2	-931.39	2	8.65	2.35	13.70
74	74	90.95	-1606.11	-46.06	-159.69	0	-1359.70	2	-931.91	2	8.65	2.35	13.70
74	75	92.53	-1606.11	-34.55	-96.21	0	-1290.75	2	-1061.57	2	8.62	2.35	13.66
75	75	92.53	-1606.11	-34.55	-96.21	0	-1290.75	2	-1061.57	2	8.62	2.35	13.66
75	76	94.10	-1606.11	-23.05	-50.85	0	-1241.49	2	-1154.19	2	8.60	2.35	13.63
76	76	94.10	-1606.11	-23.05	-50.85	0	-1241.49	2	-1154.19	2	8.60	2.35	13.63
76	77	95.68	-1606.11	-11.56	-23.60	0	-1211.91	2	-1209.76	2	8.58	2.35	13.59

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F5.T0.MZ+

nstrucción sin gradiente en fase constructiva 5

)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [9; 1.1]fase4.HIP.To + [1; 1]HBCP

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1606.11	-11.56	-23.60	0	-1211.91	2	-1209.76	2	8.58	2.35	13.5
77	78	97.25	-1606.11	-0.06	-14.48	0	-1202.03	2	-1228.29	2	8.56	2.35	13.5
78	78	97.25	-1606.11	-0.06	-14.48	0	-1202.03	2	-1228.29	2	8.56	2.35	13.5
78	79	98.83	-1606.11	11.44	-23.44	0	-1211.80	2	-1209.80	2	8.54	2.35	13.5
79	79	98.83	-1606.11	11.44	-23.44	0	-1211.80	2	-1209.80	2	8.54	2.35	13.5
79	80	100.40	-1606.11	22.93	-50.51	0	-1241.25	2	-1154.29	2	8.52	2.35	13.4
80	80	100.40	-1606.11	22.93	-50.51	0	-1241.25	2	-1154.29	2	8.52	2.35	13.4
80	81	101.98	-1606.11	34.43	-95.71	0	-1290.40	2	-1061.72	2	8.49	2.35	13.4
81	81	101.98	-1606.11	34.43	-95.71	0	-1290.40	2	-1061.72	2	8.49	2.35	13.4
81	82	103.55	-1606.11	45.94	-159.01	0	-1359.23	2	-932.11	2	8.47	2.35	13.4
82	82	103.55	-1605.05	74.23	-158.88	0	-1358.29	2	-931.60	2	8.47	2.35	13.4
82	83	105.13	-1604.86	85.73	-285.25	0	-1495.51	2	-672.87	2	8.45	2.35	13.3
83	83	105.13	-1604.86	85.73	-285.25	0	-1312.19	2	-585.56	2	10.21	2.35	15.3
83	84	106.70	-1604.64	97.24	-429.74	0	-1460.76	2	-337.24	2	10.19	2.35	15.3
84	84	106.70	-1095.90	68.95	-97.24	0	-791.94	2	-581.41	2	10.19	2.35	15.3
84	85	108.28	-1095.90	80.45	-214.88	0	-913.03	2	-379.34	2	10.17	2.35	15.2
85	85	108.28	-1095.90	80.45	-214.88	0	-924.81	2	-334.80	2	0.00	2.35	0.0
85	86	109.85	-1096.84	91.95	-350.71	0	-1065.19	2	-102.21	2	0.00	2.35	0.0
86	86	109.85	-585.73	92.03	-3.78	0	-379.99	2	-369.62	2	0.00	2.35	0.0
86	87	111.43	-585.73	103.54	-157.78	0	-538.46	2	-105.24	2	0.00	2.35	0.0
87	87	111.43	-585.73	103.54	-157.78	0	-538.46	2	-105.24	2	0.00	2.35	0.0
87	88	112.00	-585.73	107.73	-218.54	0	-600.99	2	-0.92	2	0.00	2.35	0.0
88	88	112.00	-801.66	107.73	473.62	0	-27.38	2	-1327.85	2	0.00	2.35	0.0
88	89	113.00	-801.66	120.47	359.54	0	-144.77	2	-1132.00	2	0.00	2.35	0.0
89	1089	113.00	-801.66	-120.23	359.54	0	-144.77	2	-1132.00	2	0.00	2.35	0.0
89	90	114.00	-801.66	-107.48	473.39	0	-27.62	2	-1327.45	2	0.00	2.35	0.0
90	90	114.00	-585.73	-107.48	-218.77	0	-601.23	2	-0.53	2	0.00	2.35	0.0
90	91	114.58	-585.73	-103.29	-158.17	0	-538.87	2	-104.56	2	0.00	2.35	0.0
91	91	114.58	-585.73	-103.29	-158.17	0	-538.87	2	-104.56	2	0.00	2.35	0.0
91	92	116.15	-585.73	-91.78	-4.56	0	-380.80	2	-368.28	2	0.00	2.35	0.0
92	92	116.15	-1096.79	-91.70	-351.49	0	-1065.96	2	-100.83	2	0.00	2.35	0.0
92	93	117.73	-1095.86	-80.20	-216.05	0	-925.99	2	-332.76	2	0.00	2.35	0.0
93	93	117.73	-1095.86	-80.20	-216.05	0	-913.80	2	-378.91	2	10.54	2.35	15.8
93	94	119.30	-1095.86	-68.70	-98.80	0	-792.98	2	-580.84	2	10.69	2.35	16.0
94	94	119.30	-1604.64	-96.99	-431.30	0	-1461.81	2	-336.68	2	10.67	2.35	16.0
94	95	120.88	-1604.86	-85.48	-287.21	0	-1313.50	2	-584.85	2	10.82	2.35	16.2
95	95	120.88	-1604.86	-85.48	-287.21	0	-1496.87	2	-672.29	2	8.95	2.35	14.1
95	96	122.45	-1605.05	-73.98	-161.22	0	-1359.90	2	-930.92	2	9.07	2.35	14.3
96	96	122.45	-1606.11	-45.69	-161.35	0	-1360.84	2	-931.44	2	9.07	2.35	14.3
96	97	124.03	-1606.11	-34.18	-98.43	0	-1292.28	2	-1060.93	2	9.20	2.35	14.5
97	97	124.03	-1606.11	-34.18	-98.43	0	-1292.28	2	-1060.93	2	9.20	2.35	14.5
97	98	125.60	-1606.11	-22.68	-53.65	0	-1243.42	2	-1153.36	2	9.32	2.35	14.7
98	98	125.60	-1606.11	-22.68	-53.65	0	-1243.42	2	-1153.36	2	9.32	2.35	14.7
98	99	127.18	-1606.11	-11.19	-26.95	0	-1214.22	2	-1208.80	2	9.44	2.35	14.9
99	99	127.18	-1606.11	-11.19	-26.95	0	-1214.22	2	-1208.80	2	9.44	2.35	14.9
99	100	128.75	-1606.11	0.31	-18.37	0	-1204.71	2	-1227.17	2	9.57	2.35	15.1
100	100	128.75	-1606.11	0.31	-18.37	0	-1204.71	2	-1227.17	2	9.57	2.35	15.1
100	101	130.33	-1606.11	11.81	-27.90	0	-1214.87	2	-1208.52	2	9.69	2.35	15.3
101	101	130.33	-1606.11	11.81	-27.90	0	-1214.87	2	-1208.52	2	9.69	2.35	15.3
101	102	131.90	-1606.11	23.30	-55.56	0	-1244.74	2	-1152.80	2	9.81	2.35	15.5
102	102	131.90	-1606.11	23.30	-55.56	0	-1244.74	2	-1152.80	2	9.81	2.35	15.5
102	103	133.48	-1606.11	34.80	-101.32	0	-1294.28	2	-1060.06	2	9.93	2.35	15.7
103	103	133.48	-1606.11	34.80	-101.32	0	-1294.28	2	-1060.06	2	9.93	2.35	15.7
103	104	135.05	-1606.11	46.31	-165.17	0	-1363.48	2	-930.31	2	10.06	2.35	15.9
104	104	135.05	-1605.05	74.60	-165.04	0	-1362.55	2	-929.79	2	10.06	2.35	15.9
104	105	136.63	-1604.86	86.10	-291.99	0	-1500.17	2	-670.88	2	10.18	2.35	16.1
105	105	136.63	-1604.86	86.10	-291.99	0	-1316.70	2	-583.15	2	12.30	2.35	18.4
105	106	138.20	-1604.64	97.61	-437.05	0	-1465.66	2	-334.63	2	12.46	2.35	18.7
106	106	138.20	-1095.98	69.30	-104.55	0	-796.87	2	-578.83	2	12.44	2.35	18.7
106	107	139.78	-1095.98	80.80	-222.75	0	-918.32	2	-376.56	2	12.58	2.35	18.9
107	107	139.78	-1095.98	80.80	-222.75	0	-932.95	2	-321.33	2	0.00	2.35	0.0
107	108	141.35	-1096.92	92.30	-359.14	0	-1073.92	2	-87.77	2	0.00	2.35	0.0
108	108	141.35	-585.73	92.39	-12.21	0	-388.67	2	-355.14	2	0.00	2.35	0.0
108	109	142.93	-585.73	103.90	-166.79	0	-547.74	2	-89.77	2	0.00	2.35	0.0
109	109	142.93	-585.73	103.90	-166.79	0	-547.74	2	-89.77	2	0.00	2.35	0.0
109	110	143.50	-585.73	108.10	-227.75	0	-610.47	2	14.90	2	0.00	2.35	0.0
110	110	143.50	-801.66	108.10	464.40	0	-36.86	2	-1312.03	2	0.00	2.35	0.0
110	111	144.50	-801.66	120.84	349.96	0	-154.63	2	-1115.56	2	0.00	2.35	0.0
111	1111	144.50	-801.66	-94.59	349.96	0	-154.63	2	-1115.56	2	0.00	2.35	0.0
111	112	145.50	-801.66	-81.85	438.20	0	-63.83	2	-1267.04	2	0.00	2.35	0.0
	112	145.50	-476.41	-81.85	-177.44	0	-488.49	2	-1.29	2	0.00	2.35	0.0
112	113	145.68	-476.41	-80.57	-163.24	0	-473.89	2	-25.66	2	0.00	2.35	0.0
113	113	145.68	-476.41	-80.57	-163.24	0	-473.89	2	-25.66	2	0.00	2.35	0.0
113	114	146.85	-476.41	-71.99	-73.61	0	-381.66	2	-179.53	2	0.00	2.35	0.0
114	114	146.85	-878.82	-71.79	-346.20	0	-920.55	2	30.04	2	0.00	2.35	0.0
114	115	148.03	-877.89	-63.21	-266.73	0	-838.18	2	-105.79	2	0.00	2.35	0.0

CÁLCULO TENSIONAL

ipótesis de cálculo:
ONST1.F5.T0.MZ+

onstrucción sin gradiente en fase constructiva 5

1)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [9; 1.1]fase4.HIP.To + [1; 1]HBCP

ef. exc:

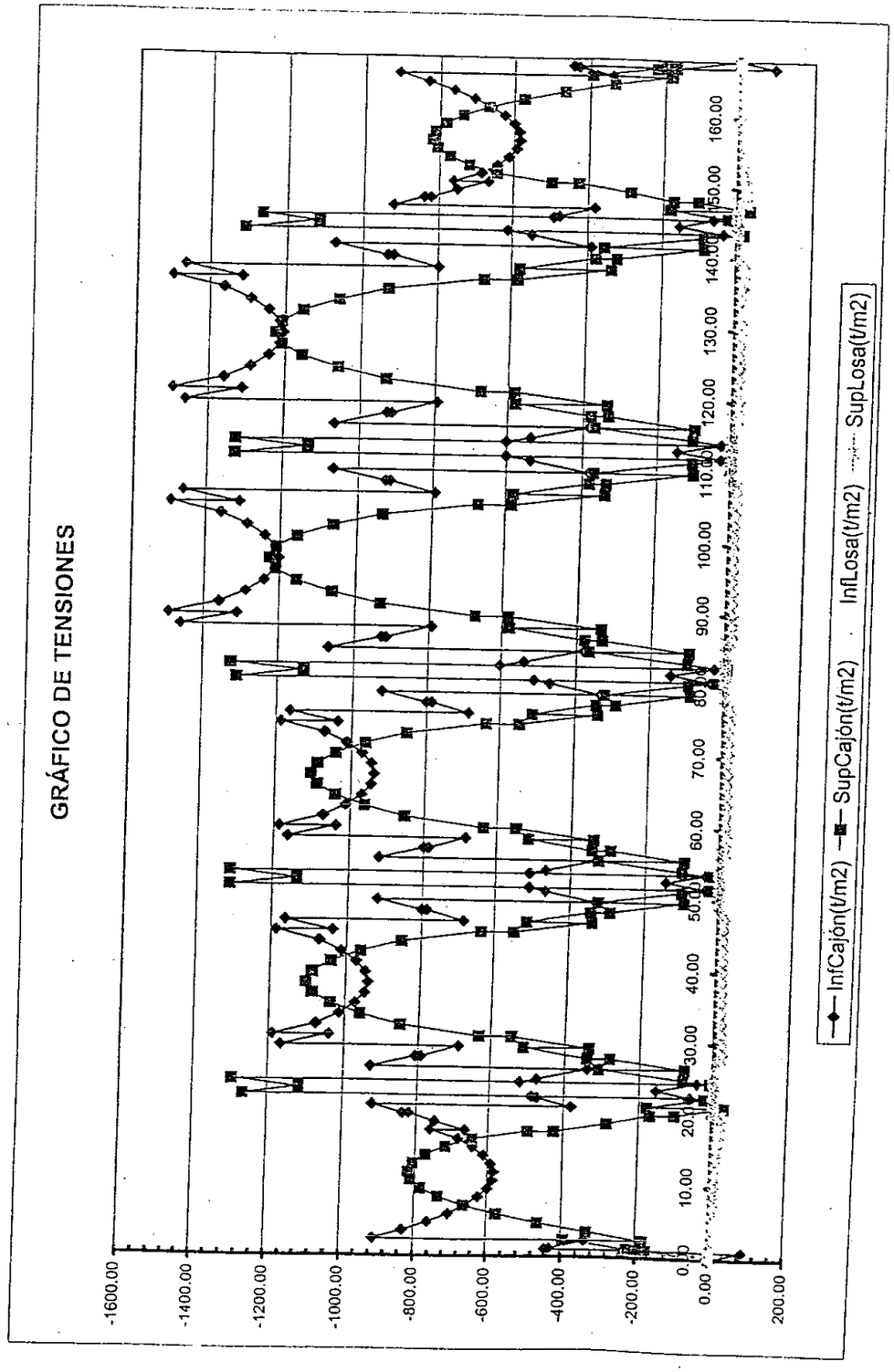
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.89	-63.21	-266.73	0	-820.62	2	-171.30	2	14.79	2.35	22.33
115	116	149.20	-877.89	-54.62	-197.39	0	-750.29	2	-286.46	2	13.91	2.35	21.00
116	116	149.20	-875.81	-75.43	-197.26	0	-749.00	2	-285.51	2	14.09	2.35	21.19
116	117	150.38	-876.02	-66.85	-113.48	0	-663.93	2	-425.64	2	13.21	2.35	19.87
117	117	150.38	-876.02	-56.85	-113.48	0	-760.66	2	-496.77	2	10.93	2.35	17.32
117	118	151.55	-876.22	-58.27	-39.76	0	-681.83	2	-642.68	2	10.20	2.35	16.16
118	118	151.55	-877.27	-37.55	-39.87	0	-682.75	2	-643.24	2	10.21	2.35	16.17
118	119	152.73	-877.27	-28.97	-0.79	0	-641.41	2	-718.19	2	9.48	2.35	15.01
119	119	152.73	-877.27	-28.97	-0.79	0	-641.41	2	-718.19	2	9.48	2.35	15.01
119	120	153.90	-877.27	-20.39	28.21	0	-611.02	2	-772.53	2	8.75	2.35	13.86
120	120	153.90	-877.27	-20.39	28.21	0	-611.02	2	-772.53	2	8.75	2.35	13.86
120	121	155.08	-877.27	-11.81	47.13	0	-591.59	2	-806.23	2	8.02	2.35	12.70
121	121	155.08	-877.27	-11.81	47.13	0	-591.59	2	-806.23	2	8.02	2.35	12.70
121	122	156.25	-877.27	-3.24	55.95	0	-583.12	2	-819.32	2	7.29	2.35	11.55
122	122	156.25	-877.27	-3.24	55.95	0	-583.12	2	-819.32	2	7.29	2.35	11.55
122	123	157.43	-877.27	5.35	54.71	0	-585.60	2	-811.82	2	6.56	2.35	10.39
123	123	157.43	-877.27	5.35	54.71	0	-585.60	2	-811.82	2	6.56	2.35	10.39
123	124	158.60	-877.27	13.92	43.39	0	-599.02	2	-783.70	2	5.83	2.35	9.24
124	124	158.60	-877.27	13.92	43.39	0	-599.02	2	-783.70	2	5.83	2.35	9.24
124	125	159.78	-877.27	22.50	21.99	0	-623.41	2	-734.95	2	5.10	2.35	8.08
125	125	159.78	-877.27	22.50	21.99	0	-623.41	2	-734.95	2	5.10	2.35	8.08
125	126	160.95	-877.27	31.08	-9.50	0	-658.75	2	-665.60	2	4.38	2.35	6.93
126	126	160.95	-877.27	31.08	-9.50	0	-658.75	2	-665.60	2	4.38	2.35	6.93
126	127	162.13	-877.27	39.66	-51.05	0	-705.03	2	-575.65	2	3.65	2.35	5.77
127	127	162.13	-877.27	39.66	-51.05	0	-705.03	2	-575.65	2	3.65	2.35	5.77
127	128	163.30	-877.27	48.24	-102.70	0	-762.28	2	-465.06	2	2.92	2.35	4.62
128	128	163.30	-877.27	48.24	-102.70	0	-762.28	2	-465.06	2	2.92	2.35	4.62
128	129	164.48	-877.27	56.81	-164.41	0	-830.47	2	-333.89	2	2.19	2.35	3.47
129	129	164.48	-877.27	56.81	-164.41	0	-830.47	2	-333.89	2	2.19	2.35	3.47
129	130	165.65	-877.27	65.40	-236.21	0	-909.62	2	-182.08	2	1.46	2.35	2.31
130	130	165.65	-476.41	65.40	13.92	0	-338.42	2	-394.21	2	1.46	2.35	2.31
130	131	166.83	-476.41	73.98	-67.96	0	-428.52	2	-221.82	2	0.73	2.35	1.16
131	131	166.83	-476.41	73.98	-67.96	0	-428.52	2	-221.82	2	0.73	2.35	1.16
131	132	167.00	-476.41	75.25	-81.03	0	-442.90	2	-194.34	2	0.62	2.35	0.99
132	132	167.00	0.00	75.25	82.25	0	90.34	2	-172.43	2	0.62	2.35	0.99
132	133	168.00	0.00	89.27	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F5.T0.MZ-
Construcción sin gradiente en fase constructiva 5
1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP
ref exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-89.27	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-74.71	81.73	0	89.99	2	-172.31	2	0.76	2.35	1.20
2	2	1.00	-526.55	-74.71	-98.73	0	-499.37	2	-196.53	2	0.76	2.35	1.20
2	3	1.18	-526.55	-73.44	-85.77	0	-485.08	2	-223.94	2	0.89	2.35	1.41
3	3	1.18	-526.55	-73.44	-85.77	0	-485.08	2	-223.94	2	0.89	2.35	1.41
3	4	2.35	-526.55	-64.86	-4.52	0	-395.42	2	-396.15	2	1.78	2.35	2.82
4	4	2.35	-969.61	-64.86	-280.99	0	-1026.74	2	-161.68	2	1.78	2.35	2.82
4	5	3.53	-969.61	-56.27	-209.81	0	-948.02	2	-313.31	2	2.67	2.35	4.23
5	5	3.53	-969.61	-56.27	-209.81	0	-948.02	2	-313.31	2	2.67	2.35	4.23
5	6	4.70	-969.61	-47.70	-148.73	0	-880.27	2	-444.29	2	3.56	2.35	5.64
6	6	4.70	-969.61	-47.70	-148.73	0	-880.27	2	-444.29	2	3.56	2.35	5.64
6	7	5.88	-969.61	-39.12	-97.71	0	-823.45	2	-554.70	2	4.45	2.35	7.05
7	7	5.88	-969.61	-39.12	-97.71	0	-823.45	2	-554.70	2	4.45	2.35	7.05
7	8	7.05	-969.61	-30.54	-56.77	0	-777.60	2	-644.47	2	5.34	2.35	8.46
8	8	7.05	-969.61	-30.54	-56.77	0	-777.60	2	-644.47	2	5.34	2.35	8.46
8	9	8.23	-969.61	-21.96	-25.91	0	-742.69	2	-713.63	2	6.23	2.35	9.87
9	9	8.23	-969.61	-21.96	-25.91	0	-742.69	2	-713.63	2	6.23	2.35	9.87
9	10	9.40	-969.61	-13.38	-5.14	0	-718.74	2	-762.19	2	7.12	2.35	11.28
10	10	9.40	-969.61	-13.38	-5.14	0	-718.74	2	-762.19	2	7.12	2.35	11.28
10	11	10.58	-969.61	-4.81	5.55	0	-705.75	2	-790.12	2	8.01	2.35	12.69
11	11	10.58	-969.61	-4.81	5.55	0	-705.75	2	-790.12	2	8.01	2.35	12.69
11	12	11.75	-969.61	3.78	6.17	0	-703.71	2	-797.44	2	8.90	2.35	14.10
12	12	11.75	-969.61	3.78	6.17	0	-703.71	2	-797.44	2	8.90	2.35	14.10
12	13	12.93	-969.61	12.35	-3.30	0	-712.62	2	-784.17	2	9.79	2.35	15.51
13	13	12.93	-969.61	12.35	-3.30	0	-712.62	2	-784.17	2	9.79	2.35	15.51
13	14	14.10	-969.61	20.93	-22.84	0	-732.48	2	-750.28	2	10.68	2.35	16.92
14	14	14.10	-969.61	20.93	-22.84	0	-732.48	2	-750.28	2	10.68	2.35	16.92
14	15	15.28	-969.61	29.51	-52.47	0	-763.30	2	-695.76	2	11.57	2.35	18.33
15	15	15.28	-969.61	29.51	-52.47	0	-763.30	2	-695.76	2	11.57	2.35	18.33
15	16	16.45	-969.61	38.09	-92.18	0	-805.08	2	-620.62	2	12.46	2.35	19.74
16	16	16.45	-968.54	60.99	-92.05	0	-804.13	2	-620.07	2	12.45	2.35	19.73
16	17	17.63	-968.34	69.57	-168.98	0	-886.20	2	-468.69	2	13.34	2.35	21.14
17	17	17.63	-968.34	69.57	-168.98	0	-776.94	2	-402.43	2	16.13	2.35	24.25
17	18	18.80	-968.13	78.15	-255.99	0	-865.09	2	-257.64	2	17.21	2.35	25.87
18	18	18.80	-970.37	55.15	-256.12	0	-866.46	2	-258.63	2	16.98	2.35	25.64
18	19	19.98	-970.37	63.74	-326.08	0	-937.20	2	-143.25	2	18.06	2.35	27.26
19	19	19.98	-970.37	63.74	-326.08	0	-958.63	2	-63.28	2	0.00	2.35	0.00
19	20	21.15	-971.31	72.31	-406.17	0	-1041.66	2	73.62	2	0.00	2.35	0.00
20	20	21.15	-526.55	72.53	-104.89	0	-446.05	2	-158.03	2	0.00	2.35	0.00
20	21	22.33	-526.55	81.11	-195.16	0	-538.93	2	-3.06	2	0.00	2.35	0.00
21	21	22.33	-526.55	81.11	-195.16	0	-538.93	2	-3.06	2	0.00	2.35	0.00
21	22	22.50	-526.55	82.39	-209.46	0	-553.65	2	21.50	2	0.00	2.35	0.00
22	22	22.50	-655.90	82.39	348.77	0	-62.26	2	-1019.92	2	0.00	2.35	0.00
22	23	23.50	-655.90	95.13	260.01	0	-153.60	2	-867.54	2	0.00	2.35	0.00
23	1023	23.50	-655.90	-111.90	260.01	0	-153.60	2	-867.54	2	0.00	2.35	0.00
23	24	24.50	-655.90	-99.15	365.54	0	-45.01	2	-1048.71	2	0.00	2.35	0.00
24	24	24.50	-566.83	-99.15	-220.89	0	-591.27	2	15.24	2	0.00	2.35	0.00
24	25	24.95	-566.83	-95.87	-177.01	0	-546.12	2	-60.08	2	0.00	2.35	0.00
25	25	24.95	-566.83	-95.87	-177.01	0	-546.12	2	-60.08	2	0.00	2.35	0.00
25	26	26.40	-566.83	-85.29	-45.69	0	-410.98	2	-285.54	2	0.00	2.35	0.00
26	26	26.40	-1051.20	-85.17	-374.36	0	-1060.22	2	-32.30	2	0.00	2.35	0.00
26	27	27.85	-1050.27	-74.58	-258.46	0	-940.36	2	-230.67	2	0.00	2.35	0.00
27	27	27.85	-1050.27	-74.58	-258.46	0	-919.61	2	-308.95	2	17.84	2.35	26.82
27	28	29.30	-1050.27	-64.00	-157.99	0	-816.46	2	-480.52	2	17.62	2.35	26.50
28	28	29.30	-1451.47	-91.81	-420.45	0	-1344.19	2	-287.57	2	17.65	2.35	26.54
28	29	30.75	-1451.69	-81.22	-294.64	0	-1215.12	2	-502.75	2	17.44	2.35	26.21
29	29	30.75	-1451.69	-81.22	-294.64	0	-1382.09	2	-580.02	2	14.42	2.35	22.85
29	30	32.20	-1451.88	-70.63	-184.19	0	-1262.48	2	-804.81	2	14.25	2.35	22.57
30	30	32.20	-1452.95	-42.83	-184.32	0	-1263.43	2	-805.33	2	14.25	2.35	22.57
30	31	33.65	-1452.95	-32.24	-129.89	0	-1204.56	2	-915.42	2	14.07	2.35	22.28
31	31	33.65	-1452.95	-32.24	-129.89	0	-1204.56	2	-915.42	2	14.07	2.35	22.28
31	32	35.10	-1452.95	-21.66	-90.82	0	-1162.38	2	-994.09	2	13.89	2.35	22.00
32	32	35.10	-1452.95	-21.66	-90.82	0	-1162.38	2	-994.09	2	13.89	2.35	22.00
32	33	36.55	-1452.95	-11.06	-67.11	0	-1136.88	2	-1041.38	2	13.71	2.35	21.72
33	33	36.55	-1452.95	-11.06	-67.11	0	-1136.88	2	-1041.38	2	13.71	2.35	21.72
33	34	38.00	-1452.95	-0.48	-58.73	0	-1128.05	2	-1057.30	2	13.53	2.35	21.43
34	34	38.00	-1452.95	-0.48	-58.73	0	-1128.05	2	-1057.30	2	13.53	2.35	21.43
34	35	39.45	-1452.95	10.10	-65.71	0	-1135.92	2	-1041.80	2	13.35	2.35	21.15
35	35	39.45	-1452.95	10.10	-65.71	0	-1135.92	2	-1041.80	2	13.35	2.35	21.15
35	36	40.90	-1452.95	20.70	-88.04	0	-1160.46	2	-994.91	2	13.17	2.35	20.87
36	36	40.90	-1452.95	20.70	-88.04	0	-1160.46	2	-994.91	2	13.17	2.35	20.87
36	37	42.35	-1452.95	31.28	-125.73	0	-1201.68	2	-916.65	2	13.00	2.35	20.59
37	37	42.35	-1452.95	31.28	-125.73	0	-1201.68	2	-916.65	2	13.00	2.35	20.59
37	38	43.80	-1452.95	41.87	-178.75	0	-1259.58	2	-806.98	2	12.82	2.35	20.30
38	38	43.80	-1451.88	69.68	-178.62	0	-1258.63	2	-806.46	2	12.82	2.35	20.30
38	39	45.25	-1451.69	80.27	-287.68	0	-1377.28	2	-582.07	2	12.64	2.35	20.02

GRÁFICO DE TENSIONES



CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F5.T0.MZ-
ucción sin gradiente en fase constructiva 5

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP
Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1451.69	80.27	-287.68	0	-1210.46	2	-505.23	2	15.28	2.35	22.96
39	40	46.70	-1451.47	90.86	-412.09	0	-1338.59	2	-290.56	2	15.06	2.35	22.64
40	40	46.70	-1050.07	63.06	-149.63	0	-810.80	2	-483.43	2	15.09	2.35	22.67
40	41	48.15	-1050.07	73.64	-248.72	0	-913.02	2	-312.36	2	14.88	2.35	22.34
41	41	48.15	-1050.07	73.64	-248.72	0	-930.20	2	-247.26	2	0.00	2.35	0.00
41	42	49.60	-1051.01	84.24	-363.23	0	-1048.64	2	-51.28	2	0.00	2.35	0.00
42	42	49.60	-566.83	84.32	-34.56	0	-399.53	2	-304.65	2	0.00	2.35	0.00
42	43	51.05	-566.83	94.90	-164.48	0	-533.23	2	-81.59	2	0.00	2.35	0.00
43	43	51.05	-566.83	94.90	-164.48	0	-533.23	2	-81.59	2	0.00	2.35	0.00
43	44	51.50	-566.83	98.19	-207.94	0	-577.94	2	-6.99	2	0.00	2.35	0.00
44	44	51.50	-655.90	98.19	378.49	0	-31.68	2	-1070.94	2	0.00	2.35	0.00
44	45	52.50	-655.90	110.93	273.93	0	-139.28	2	-891.43	2	0.00	2.35	0.00
45	1045	52.50	-655.90	-111.31	273.93	0	-139.28	2	-891.43	2	0.00	2.35	0.00
45	46	53.50	-655.90	-98.57	378.87	0	-31.29	2	-1071.60	2	0.00	2.35	0.00
46	46	53.50	-566.83	-98.57	-207.55	0	-577.55	2	-7.65	2	0.00	2.35	0.00
46	47	53.95	-566.83	-95.29	-163.93	0	-532.66	2	-82.53	2	0.00	2.35	0.00
47	47	53.95	-566.83	-95.29	-163.93	0	-532.66	2	-82.53	2	0.00	2.35	0.00
47	48	55.40	-566.83	-84.71	-33.47	0	-398.41	2	-306.50	2	0.00	2.35	0.00
48	48	55.40	-1051.08	-84.61	-362.14	0	-1047.57	2	-53.19	2	0.00	2.35	0.00
49	49	56.85	-1050.15	-74.01	-247.09	0	-928.58	2	-250.11	2	0.00	2.35	0.00
49	49	56.85	-1050.15	-74.01	-247.09	0	-911.95	2	-312.97	2	14.35	2.35	21.56
49	50	58.30	-1050.15	-63.42	-147.45	0	-809.36	2	-484.24	2	14.39	2.35	21.63
50	50	58.30	-1451.47	-91.23	-409.91	0	-1337.13	2	-291.34	2	14.38	2.35	21.62
50	51	59.75	-1451.69	-80.64	-284.94	0	-1208.63	2	-506.21	2	14.43	2.35	21.69
51	51	59.75	-1451.69	-80.64	-284.94	0	-1375.40	2	-582.88	2	11.94	2.35	18.91
51	52	61.20	-1451.88	-70.05	-175.35	0	-1256.38	2	-807.42	2	11.98	2.35	18.97
52	52	61.20	-1452.95	-42.25	-175.48	0	-1257.33	2	-807.94	2	11.98	2.35	18.97
52	53	62.65	-1452.95	-31.66	-121.90	0	-1199.04	2	-917.78	2	12.02	2.35	19.03
53	53	62.65	-1452.95	-31.66	-121.90	0	-1199.04	2	-917.78	2	12.02	2.35	19.03
53	54	64.10	-1452.95	-21.08	-83.68	0	-1157.45	2	-996.20	2	12.05	2.35	19.09
54	54	64.10	-1452.95	-21.08	-83.68	0	-1157.45	2	-996.20	2	12.05	2.35	19.09
54	55	65.55	-1452.95	-10.48	-60.79	0	-1132.52	2	-1043.25	2	12.09	2.35	19.15
55	55	65.55	-1452.95	-10.48	-60.79	0	-1132.52	2	-1043.25	2	12.09	2.35	19.15
55	56	67.00	-1452.95	0.11	-53.27	0	-1124.29	2	-1058.91	2	12.13	2.35	19.22
56	56	67.00	-1452.95	0.11	-53.27	0	-1124.29	2	-1058.91	2	12.13	2.35	19.22
56	57	68.45	-1452.95	10.69	-61.10	0	-1132.73	2	-1043.16	2	12.17	2.35	19.28
57	57	68.45	-1452.95	10.69	-61.10	0	-1132.73	2	-1043.16	2	12.17	2.35	19.28
57	58	69.90	-1452.95	21.29	-84.28	0	-1157.86	2	-996.02	2	12.21	2.35	19.34
58	58	69.90	-1452.95	21.29	-84.28	0	-1157.86	2	-996.02	2	12.21	2.35	19.34
58	59	71.35	-1452.95	31.87	-122.79	0	-1199.66	2	-917.51	2	12.24	2.35	19.40
59	59	71.35	-1452.95	31.87	-122.79	0	-1199.66	2	-917.51	2	12.24	2.35	19.40
59	60	72.80	-1452.95	42.46	-176.68	0	-1258.15	2	-807.59	2	12.29	2.35	19.46
60	60	72.80	-1451.88	70.26	-176.54	0	-1257.20	2	-807.07	2	12.29	2.35	19.46
60	61	74.25	-1451.69	80.85	-286.45	0	-1376.43	2	-582.44	2	12.32	2.35	19.52
)	61	74.25	-1451.69	80.85	-286.45	0	-1209.64	2	-565.67	2	14.90	2.35	22.39
61	62	75.70	-1451.47	91.44	-411.70	0	-1338.33	2	-290.70	2	14.94	2.35	22.46
62	62	75.70	-1050.19	63.64	-149.24	0	-810.58	2	-483.61	2	14.94	2.35	22.45
62	63	77.15	-1050.19	74.22	-249.18	0	-913.37	2	-312.24	2	14.98	2.35	22.52
63	63	77.15	-1050.19	74.22	-249.18	0	-930.76	2	-246.55	2	0.00	2.35	0.00
63	64	78.60	-1051.13	84.81	-364.54	0	-1050.07	2	-49.11	2	0.00	2.35	0.00
64	64	78.60	-566.83	84.91	-35.87	0	-400.88	2	-302.39	2	0.00	2.35	0.00
64	65	80.05	-566.83	95.50	-166.64	0	-535.44	2	-77.89	2	0.00	2.35	0.00
65	65	80.05	-566.83	95.50	-166.64	0	-535.44	2	-77.89	2	0.00	2.35	0.00
65	66	80.50	-566.83	98.78	-210.35	0	-580.43	2	-2.85	2	0.00	2.35	0.00
66	66	80.50	-655.90	98.78	376.08	0	-34.16	2	-1066.80	2	0.00	2.35	0.00
66	67	81.50	-655.90	111.52	270.93	0	-142.36	2	-886.29	2	0.00	2.35	0.00
67	1067	81.50	-655.90	-120.63	270.93	0	-142.36	2	-886.29	2	0.00	2.35	0.00
67	68	82.50	-655.90	-107.89	385.18	0	-24.79	2	-1082.43	2	0.00	2.35	0.00
68	68	82.50	-647.39	-107.89	-257.63	0	-680.81	2	26.60	2	0.00	2.35	0.00
68	69	83.08	-647.39	-103.69	-196.80	0	-618.21	2	-77.84	2	0.00	2.35	0.00
69	69	83.08	-647.39	-103.69	-196.80	0	-618.21	2	-77.84	2	0.00	2.35	0.00
69	70	84.65	-647.39	-92.19	-42.57	0	-459.50	2	-342.62	2	0.00	2.35	0.00
70	70	84.65	-1212.23	-92.09	-426.02	0	-1216.78	2	-47.01	2	0.00	2.35	0.00
70	71	86.23	-1211.30	-80.59	-289.94	0	-1076.16	2	-280.02	2	0.00	2.35	0.00
71	71	86.23	-1211.30	-80.59	-289.94	0	-1060.59	2	-338.83	2	13.41	2.35	20.16
71	72	87.80	-1211.30	-69.09	-172.07	0	-939.35	2	-540.98	2	13.36	2.35	20.09
72	72	87.80	-1773.68	-100.38	-539.57	0	-1678.64	2	-271.18	2	13.37	2.35	20.10
72	73	89.38	-1773.90	-88.87	-390.12	0	-1525.04	2	-527.70	2	13.32	2.35	20.03
73	73	89.38	-1773.90	-88.87	-390.12	0	-1731.74	2	-602.22	2	11.02	2.35	17.46
	74	90.95	-1774.09	-77.37	-258.78	0	-1589.22	2	-870.69	2	10.99	2.35	17.40
.	74	90.95	-1775.17	-46.10	-258.93	0	-1590.19	2	-871.20	2	10.99	2.35	17.40
74	75	92.53	-1775.17	-34.59	-195.39	0	-1521.20	2	-1000.87	2	10.95	2.35	17.34
75	75	92.53	-1775.17	-34.59	-195.39	0	-1521.20	2	-1000.87	2	10.95	2.35	17.34
75	76	94.10	-1775.17	-23.09	-149.95	0	-1471.89	2	-1093.51	2	10.91	2.35	17.28
76	76	94.10	-1775.17	-23.09	-149.95	0	-1471.89	2	-1093.51	2	10.91	2.35	17.28
76	77	95.68	-1775.17	-11.60	-122.64	0	-1442.27	2	-1149.10	2	10.87	2.35	17.22

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F5.T0.MZ-
Construcción sin gradiente en fase constructiva 5

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP
oef. exc

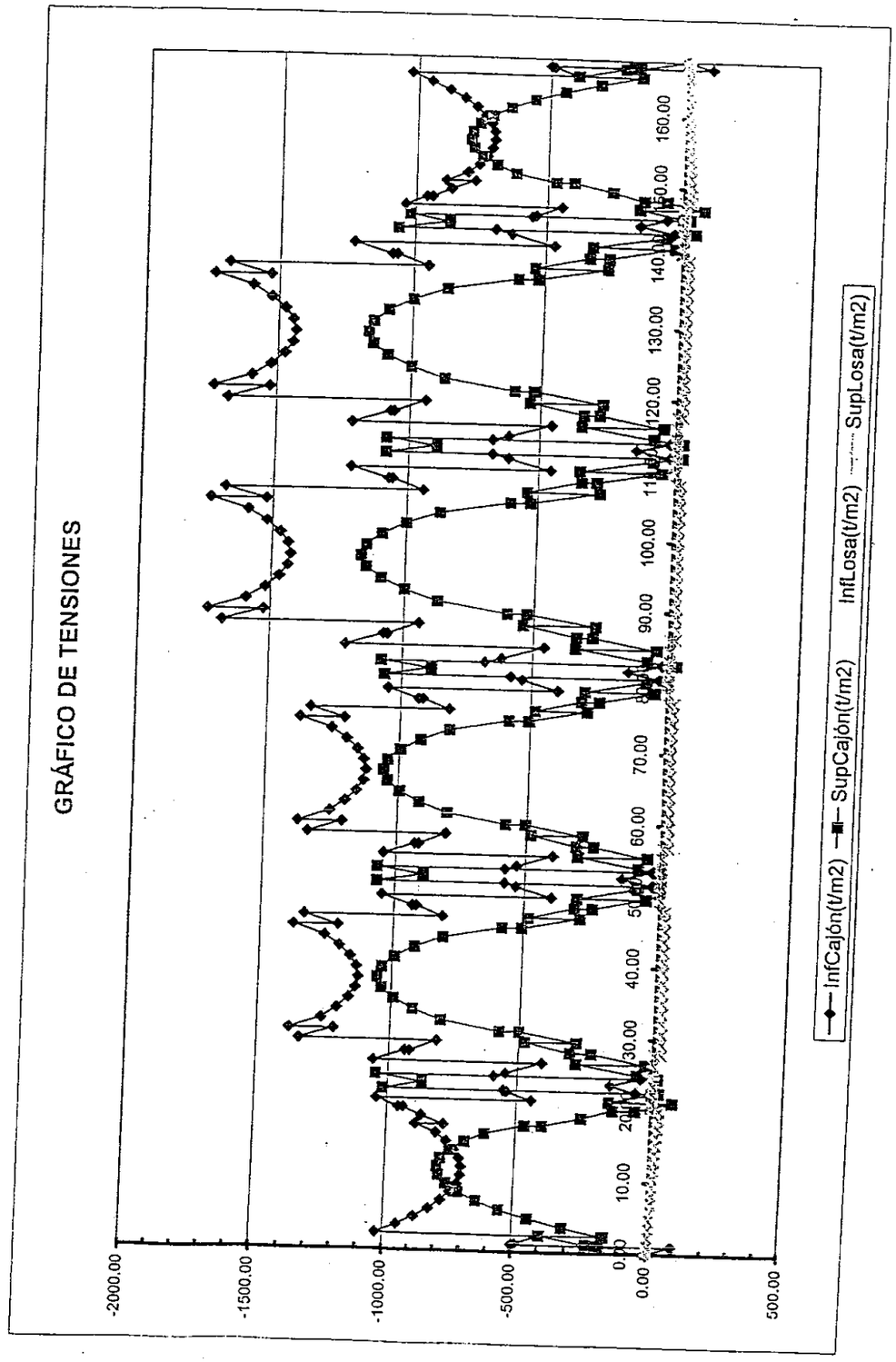
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1775.17	-11.60	-122.64	0	-1442.27	2	-1149.10	2	10.87	2.35	17.22
77	78	97.25	-1775.17	-0.10	-113.46	0	-1432.35	2	-1167.64	2	10.84	2.35	17.17
78	78	97.25	-1775.17	-0.10	-113.46	0	-1432.35	2	-1167.64	2	10.84	2.35	17.17
78	79	98.83	-1775.17	11.40	-122.36	0	-1442.08	2	-1149.18	2	10.80	2.35	17.10
79	79	98.83	-1775.17	11.40	-122.36	0	-1442.08	2	-1149.18	2	10.80	2.35	17.10
79	80	100.40	-1775.17	22.89	-149.37	0	-1471.49	2	-1093.69	2	10.76	2.35	17.04
80	80	100.40	-1775.17	22.89	-149.37	0	-1471.49	2	-1093.69	2	10.76	2.35	17.04
80	81	101.98	-1775.17	34.39	-194.51	0	-1520.59	2	-1001.13	2	10.72	2.35	16.99
81	81	101.98	-1775.17	34.39	-194.51	0	-1520.59	2	-1001.13	2	10.72	2.35	16.99
81	82	103.55	-1775.17	45.90	-257.75	0	-1589.37	2	-871.55	2	10.68	2.35	16.92
82	82	103.55	-1774.09	77.17	-257.60	0	-1588.40	2	-871.04	2	10.68	2.35	16.92
82	83	105.13	-1773.90	88.67	-388.65	0	-1730.73	2	-602.65	2	10.65	2.35	16.86
83	83	105.13	-1773.90	88.67	-388.65	0	-1524.05	2	-528.23	2	12.87	2.35	19.34
83	84	106.70	-1773.68	100.18	-537.80	0	-1677.45	2	-271.81	2	12.82	2.35	19.27
84	84	106.70	-1211.26	68.91	-170.30	0	-938.15	2	-541.60	2	12.83	2.35	19.28
84	85	108.28	-1211.26	80.41	-287.88	0	-1059.19	2	-339.55	2	12.79	2.35	19.21
85	85	108.28	-1211.26	80.41	-287.88	0	-1074.01	2	-283.52	2	0.00	2.35	0.00
85	86	109.85	-1212.20	91.91	-423.65	0	-1214.32	2	-51.04	2	0.00	2.35	0.00
86	86	109.85	-647.39	91.99	-40.20	0	-457.07	2	-346.67	2	0.00	2.35	0.00
86	87	111.43	-647.39	103.50	-194.14	0	-615.48	2	-82.39	2	0.00	2.35	0.00
87	87	111.43	-647.39	103.50	-194.14	0	-615.48	2	-82.39	2	0.00	2.35	0.00
87	88	112.00	-647.39	107.69	-254.88	0	-677.98	2	21.88	2	0.00	2.35	0.00
88	88	112.00	-655.90	107.69	387.93	0	-21.97	2	-1087.15	2	0.00	2.35	0.00
88	89	113.00	-655.90	120.43	273.89	0	-139.32	2	-891.36	2	0.00	2.35	0.00
89	1089	113.00	-655.90	-120.11	273.89	0	-139.32	2	-891.36	2	0.00	2.35	0.00
89	90	114.00	-655.90	-107.36	387.62	0	-22.29	2	-1086.61	2	0.00	2.35	0.00
90	90	114.00	-647.39	-107.36	-255.19	0	-678.30	2	22.42	2	0.00	2.35	0.00
90	91	114.58	-647.39	-103.17	-194.67	0	-616.02	2	-81.49	2	0.00	2.35	0.00
91	91	114.58	-647.39	-103.17	-194.67	0	-616.02	2	-81.49	2	0.00	2.35	0.00
91	92	116.15	-647.39	-91.66	-41.24	0	-458.13	2	-344.89	2	0.00	2.35	0.00
92	92	116.15	-1212.13	-91.58	-424.69	0	-1215.35	2	-49.22	2	0.00	2.35	0.00
92	93	117.73	-1211.20	-80.08	-289.43	0	-1075.57	2	-280.83	2	0.00	2.35	0.00
93	93	117.73	-1211.20	-80.08	-289.43	0	-1060.21	2	-338.97	2	13.29	2.35	19.96
93	94	119.30	-1211.20	-68.58	-172.38	0	-939.52	2	-540.84	2	13.49	2.35	20.26
94	94	119.30	-1773.68	-99.85	-539.88	0	-1678.84	2	-271.07	2	13.47	2.35	20.24
94	95	120.88	-1773.90	-88.34	-391.25	0	-1525.79	2	-527.30	2	13.68	2.35	20.55
95	95	120.88	-1773.90	-88.34	-391.25	0	-1732.52	2	-601.88	2	11.31	2.35	17.92
95	96	122.45	-1774.09	-76.84	-260.70	0	-1590.54	2	-870.14	2	11.48	2.35	18.19
96	96	122.45	-1775.17	-45.57	-260.85	0	-1591.51	2	-870.65	2	11.48	2.35	18.19
96	97	124.03	-1775.17	-34.06	-198.13	0	-1523.08	2	-1000.08	2	11.65	2.35	18.46
97	97	124.03	-1775.17	-34.06	-198.13	0	-1523.08	2	-1000.08	2	11.65	2.35	18.46
97	98	125.60	-1775.17	-22.56	-153.53	0	-1474.36	2	-1092.46	2	11.83	2.35	18.73
98	98	125.60	-1775.17	-22.56	-153.53	0	-1474.36	2	-1092.46	2	11.83	2.35	18.73
98	99	127.18	-1775.17	-11.07	-127.01	0	-1445.28	2	-1147.84	2	12.00	2.35	19.00
99	99	127.18	-1775.17	-11.07	-127.01	0	-1445.28	2	-1147.84	2	12.00	2.35	19.00
99	100	128.75	-1775.17	0.43	-118.63	0	-1435.90	2	-1166.15	2	12.17	2.35	19.27
100	100	128.75	-1775.17	0.43	-118.63	0	-1435.90	2	-1166.15	2	12.17	2.35	19.27
100	101	130.33	-1775.17	11.93	-128.34	0	-1446.20	2	-1147.45	2	12.34	2.35	19.54
101	101	130.33	-1775.17	11.93	-128.34	0	-1446.20	2	-1147.45	2	12.34	2.35	19.54
101	102	131.90	-1775.17	23.42	-156.20	0	-1476.20	2	-1091.67	2	12.51	2.35	19.82
102	102	131.90	-1775.17	23.42	-156.20	0	-1476.20	2	-1091.67	2	12.51	2.35	19.82
102	103	133.48	-1775.17	34.92	-202.14	0	-1525.86	2	-998.88	2	12.68	2.35	20.09
103	103	133.48	-1775.17	34.92	-202.14	0	-1525.86	2	-998.88	2	12.68	2.35	20.09
103	104	135.05	-1775.17	46.43	-266.19	0	-1595.19	2	-869.07	2	12.85	2.35	20.36
104	104	135.05	-1774.09	77.70	-266.04	0	-1594.23	2	-868.56	2	12.85	2.35	20.36
104	105	136.63	-1773.90	89.20	-397.91	0	-1737.12	2	-599.91	2	13.02	2.35	20.63
105	105	136.63	-1773.90	89.20	-397.91	0	-1530.25	2	-524.92	2	15.74	2.35	23.66
105	106	138.20	-1773.68	100.71	-547.89	0	-1684.21	2	-268.21	2	15.95	2.35	23.97
106	106	138.20	-1211.36	69.42	-180.39	0	-944.94	2	-538.03	2	15.93	2.35	23.95
106	107	139.78	-1211.36	80.92	-298.77	0	-1066.52	2	-335.70	2	16.13	2.35	24.26
107	107	139.78	-1211.36	80.92	-298.77	0	-1085.28	2	-264.90	2	0.00	2.35	0.00
107	108	141.35	-1212.30	92.42	-435.36	0	-1226.44	2	-31.01	2	0.00	2.35	0.00
108	108	141.35	-647.39	92.51	-51.91	0	-469.11	2	-326.58	2	0.00	2.35	0.00
108	109	142.93	-647.39	104.02	-206.67	0	-628.37	2	-60.88	2	0.00	2.35	0.00
109	109	142.93	-647.39	104.02	-206.67	0	-628.37	2	-60.88	2	0.00	2.35	0.00
109	110	143.50	-647.39	108.22	-267.71	0	-691.18	2	43.90	2	0.00	2.35	0.00
110	110	143.50	-655.90	108.22	375.10	0	-35.17	2	-1065.13	2	0.00	2.35	0.00
110	111	144.50	-655.90	120.96	260.54	0	-153.05	2	-868.45	2	0.00	2.35	0.00
111	1111	144.50	-655.90	-95.11	260.54	0	-153.05	2	-868.45	2	0.00	2.35	0.00
111	112	145.50	-655.90	-82.37	349.29	0	-61.73	2	-1020.81	2	0.00	2.35	0.00
112	112	145.50	-526.55	-82.37	-208.94	0	-553.12	2	20.61	2	0.00	2.35	0.00
112	113	145.68	-526.55	-81.09	-194.66	0	-538.42	2	-3.92	2	0.00	2.35	0.00
113	113	145.68	-526.55	-81.09	-194.66	0	-538.42	2	-3.92	2	0.00	2.35	0.00
113	114	146.85	-526.55	-72.51	-104.43	0	-445.57	2	-158.82	2	0.00	2.35	0.00
114	114	146.85	-971.30	-72.29	-405.71	0	-1041.17	2	72.83	2	0.00	2.35	0.00
114	115	148.03	-970.37	-53.71	-325.64	0	-958.18	2	-64.04	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F5.T0.MZ-
Construcción sin gradiente en fase constructiva 5

[1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP
Coef. exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-970.37	-63.71	-325.64	0	-936.91	2	-143.40	2	17.92	2.35	27.05
115	116	149.20	-970.37	-55.12	-255.69	0	-866.18	2	-258.78	2	16.85	2.35	25.45
116	116	149.20	-968.13	-78.13	-255.56	0	-864.81	2	-257.79	2	17.07	2.35	25.67
116	117	150.38	-968.34	-69.55	-168.59	0	-776.68	2	-402.57	2	16.01	2.35	24.07
117	117	150.38	-968.34	-69.55	-168.59	0	-885.92	2	-468.80	2	13.24	2.35	20.98
117	118	151.55	-968.54	-60.97	-91.68	0	-803.87	2	-620.18	2	12.36	2.35	19.58
118	118	151.55	-969.61	-38.07	-91.81	0	-804.82	2	-620.73	2	12.37	2.35	19.59
118	119	152.73	-969.61	-29.49	-52.13	0	-763.06	2	-695.86	2	11.48	2.35	18.19
119	119	152.73	-969.61	-29.49	-52.13	0	-763.06	2	-695.86	2	11.48	2.35	18.19
119	120	153.90	-969.61	-20.91	-22.53	0	-732.26	2	-750.37	2	10.60	2.35	16.79
120	120	153.90	-969.61	-20.91	-22.53	0	-732.26	2	-750.37	2	10.60	2.35	16.79
120	121	155.08	-969.61	-12.33	-3.01	0	-712.41	2	-784.25	2	9.72	2.35	15.39
121	121	155.08	-969.61	-12.33	-3.01	0	-712.41	2	-784.25	2	9.72	2.35	15.39
121	122	156.25	-969.61	-3.76	6.43	0	-703.53	2	-797.52	2	8.83	2.35	13.99
122	122	156.25	-969.61	-3.76	6.43	0	-703.53	2	-797.52	2	8.83	2.35	13.99
122	123	157.43	-969.61	4.83	5.79	0	-705.59	2	-790.19	2	7.95	2.35	12.59
123	123	157.43	-969.61	4.83	5.79	0	-705.59	2	-790.19	2	7.95	2.35	12.59
123	124	158.60	-969.61	13.40	-4.93	0	-718.60	2	-762.25	2	7.07	2.35	11.20
124	124	158.60	-969.61	13.40	-4.93	0	-718.60	2	-762.25	2	7.07	2.35	11.20
124	125	159.78	-969.61	21.98	-25.73	0	-742.57	2	-713.68	2	6.18	2.35	9.79
125	125	159.78	-969.61	21.98	-25.73	0	-742.57	2	-713.68	2	6.18	2.35	9.79
125	126	160.95	-969.61	30.56	-56.62	0	-777.49	2	-644.51	2	5.30	2.35	8.40
126	126	160.95	-969.61	30.56	-56.62	0	-777.49	2	-644.51	2	5.30	2.35	8.40
126	127	162.13	-969.61	39.14	-97.57	0	-823.36	2	-554.74	2	4.42	2.35	7.00
127	127	162.13	-969.61	39.14	-97.57	0	-823.36	2	-554.74	2	4.42	2.35	7.00
127	128	163.30	-969.61	47.72	-148.62	0	-880.20	2	-444.32	2	3.53	2.35	5.60
128	128	163.30	-969.61	47.72	-148.62	0	-880.20	2	-444.32	2	3.53	2.35	5.60
128	129	164.48	-969.61	56.29	-209.73	0	-947.97	2	-313.34	2	2.65	2.35	4.20
129	129	164.48	-969.61	56.29	-209.73	0	-947.97	2	-313.34	2	2.65	2.35	4.20
129	130	165.65	-969.61	64.88	-280.93	0	-1026.70	2	-161.70	2	1.77	2.35	2.80
130	130	165.65	-526.55	64.88	-4.46	0	-395.38	2	-396.16	2	1.77	2.35	2.80
130	131	166.83	-526.55	73.46	-85.74	0	-485.06	2	-223.95	2	0.89	2.35	1.40
131	131	166.83	-526.55	73.46	-85.74	0	-485.06	2	-223.95	2	0.89	2.35	1.40
131	132	167.00	-526.55	74.73	-98.73	0	-499.38	2	-196.49	2	0.75	2.35	1.19
132	132	167.00	0.00	74.73	81.73	0	89.98	2	-172.28	2	0.75	2.35	1.19
132	133	168.00	0.00	89.27	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F6.T0.MZ+

Construcción sin gradiente en fase constructiva 6

[1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL

Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-97.54	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-82.57	90.07	0	95.74	2	-174.78	2	-1.38	2.35	-2.19
2	2	1.00	-476.41	-82.57	-73.21	0	-437.49	2	-196.68	2	-1.38	2.35	-2.19
2	3	1.18	-476.41	-81.14	-58.89	0	-422.26	2	-224.50	2	-1.59	2.35	-2.53
3	3	1.18	-476.41	-81.14	-58.89	0	-422.26	2	-224.50	2	-1.59	2.35	-2.53
3	4	2.35	-476.41	-71.45	30.74	0	-326.81	2	-399.18	2	-2.86	2.35	-4.53
4	4	2.35	-877.27	-71.45	-219.39	0	-898.01	2	-187.05	2	-2.86	2.35	-4.53
4	5	3.53	-877.27	-61.74	-141.14	0	-814.40	2	-340.77	2	-3.78	2.35	-5.99
5	5	3.53	-877.27	-61.74	-141.14	0	-814.40	2	-340.77	2	-3.78	2.35	-5.99
5	6	4.70	-877.27	-52.06	-74.29	0	-742.66	2	-473.45	2	-4.37	2.35	-6.93
6	6	4.70	-877.27	-52.06	-74.29	0	-742.66	2	-473.45	2	-4.37	2.35	-6.93
6	7	5.88	-877.27	-42.37	-18.80	0	-682.76	2	-585.17	2	-4.63	2.35	-7.33
7	7	5.88	-877.27	-42.37	-18.80	0	-682.76	2	-585.17	2	-4.63	2.35	-7.33
7	8	7.05	-877.27	-32.68	25.30	0	-634.72	2	-675.88	2	-4.55	2.35	-7.21
8	8	7.05	-877.27	-32.68	25.30	0	-634.72	2	-675.88	2	-4.55	2.35	-7.21
8	9	8.23	-877.27	-22.99	58.00	0	-598.54	2	-745.59	2	-4.14	2.35	-6.55
9	9	8.23	-877.27	-22.99	58.00	0	-598.54	2	-745.59	2	-4.14	2.35	-6.55
9	10	9.40	-877.27	-13.30	79.34	0	-574.20	2	-794.32	2	-3.39	2.35	-5.37
10	10	9.40	-877.27	-13.30	79.34	0	-574.20	2	-794.32	2	-3.39	2.35	-5.37
10	11	10.58	-877.27	-3.62	89.26	0	-561.74	2	-822.02	2	-2.30	2.35	-3.65
11	11	10.58	-877.27	-3.62	89.26	0	-561.74	2	-822.02	2	-2.30	2.35	-3.65
11	12	11.75	-877.27	6.09	87.81	0	-561.12	2	-828.73	2	-0.88	2.35	-1.40
12	12	11.75	-877.27	6.09	87.81	0	-561.12	2	-828.73	2	-0.88	2.35	-1.40
12	13	12.93	-877.27	15.77	74.98	0	-572.36	2	-814.46	2	0.87	2.35	1.38
13	13	12.93	-877.27	15.77	74.98	0	-572.36	2	-814.46	2	0.87	2.35	1.38
13	14	14.10	-877.27	25.46	50.76	0	-595.45	2	-779.19	2	2.96	2.35	4.69
14	14	14.10	-877.27	25.46	50.76	0	-595.45	2	-779.19	2	2.96	2.35	4.69
14	15	15.28	-877.27	35.15	15.16	0	-630.40	2	-722.90	2	5.39	2.35	8.53
15	15	15.28	-877.27	35.15	15.16	0	-630.40	2	-722.90	2	5.39	2.35	8.53
15	16	16.45	-877.27	44.84	-31.85	0	-677.21	2	-645.61	2	8.15	2.35	12.91
16	16	16.45	-876.29	65.56	-31.74	0	-676.32	2	-645.08	2	8.12	2.35	12.88
16	17	17.63	-876.11	75.25	-114.67	0	-761.52	2	-496.45	2	11.21	2.35	17.77
17	17	17.63	-876.11	75.25	-114.67	0	-664.76	2	-425.25	2	13.56	2.35	20.40
17	18	18.80	-875.91	84.95	-208.99	0	-756.89	2	-281.36	2	17.70	2.35	26.62
18	18	18.80	-877.89	64.15	-209.12	0	-758.14	2	-282.27	2	17.55	2.35	26.47
18	19	19.98	-877.89	73.85	-290.27	0	-836.38	2	-162.89	2	22.10	2.35	33.31
19	19	19.98	-877.89	73.85	-290.27	0	-853.94	2	-97.38	2	7.30	2.35	10.98
19	20	21.15	-878.83	83.53	-382.88	0	-945.11	2	43.13	2	11.38	2.35	17.10
20	20	21.15	-476.41	83.73	-110.30	0	-406.21	2	-166.43	2	11.38	2.35	17.10
20	21	22.33	-476.41	93.42	-214.38	0	-508.12	2	-7.39	2	15.86	2.35	23.84
21	21	22.33	-476.41	93.42	-214.38	0	-508.12	2	-7.39	2	15.86	2.35	23.84
21	22	22.50	-476.41	94.87	-230.86	0	-524.26	2	17.82	2	16.56	2.35	24.89
22	22	22.50	-801.66	94.87	384.77	0	-99.59	2	-1247.93	2	16.56	2.35	24.89
22	23	23.50	-801.66	108.55	283.06	0	-199.41	2	-1091.66	2	20.75	2.35	31.18
23	1023	23.50	-801.66	-125.55	283.06	0	-199.41	2	-1091.66	2	20.75	2.35	31.18
23	24	24.50	-801.66	-111.86	401.77	0	-82.03	2	-1277.38	2	16.62	2.35	24.98
24	24	24.50	-512.85	-111.86	-239.37	0	-556.35	2	8.77	2	16.62	2.35	24.98
24	25	24.95	-512.85	-108.15	-189.87	0	-507.45	2	-68.49	2	14.86	2.35	22.34
25	25	24.95	-512.85	-108.15	-189.87	0	-507.45	2	-68.49	2	14.86	2.35	22.34
25	26	26.40	-512.85	-96.20	-41.73	0	-361.12	2	-299.73	2	9.59	2.35	14.42
26	26	26.40	-951.16	-96.08	-339.09	0	-948.57	2	-70.65	2	9.59	2.35	14.42
26	27	27.85	-950.23	-84.12	-208.37	0	-818.84	2	-274.09	2	4.94	2.35	7.43
27	27	27.85	-950.23	-84.12	-208.37	0	-802.43	2	-336.01	2	19.05	2.35	28.64
27	28	29.30	-950.23	-72.17	-95.05	0	-690.69	2	-512.16	2	14.85	2.35	22.34
28	28	29.30	-1313.18	-97.34	-332.51	0	-1168.11	2	-337.55	2	14.86	2.35	22.34
28	29	30.75	-1313.40	-85.37	-199.72	0	-1035.76	2	-549.94	2	11.27	2.35	16.95
29	29	30.75	-1313.40	-85.37	-199.72	0	-1183.49	2	-636.15	2	9.32	2.35	14.78
29	30	32.20	-1313.58	-73.41	-84.29	0	-1061.97	2	-855.64	2	6.87	2.35	10.90
30	30	32.20	-1314.57	-48.25	-84.41	0	-1062.87	2	-856.15	2	6.89	2.35	10.91
30	31	33.65	-1314.57	-36.29	-23.10	0	-999.25	2	-968.26	2	4.95	2.35	7.83
31	31	33.65	-1314.57	-36.29	-23.10	0	-999.25	2	-968.26	2	4.95	2.35	7.83
31	32	35.10	-1314.57	-24.34	20.84	0	-953.71	2	-1048.37	2	3.51	2.35	5.57
32	32	35.10	-1314.57	-24.34	20.84	0	-953.71	2	-1048.37	2	3.51	2.35	5.57
32	33	36.55	-1314.57	-12.37	47.45	0	-926.21	2	-1096.52	2	2.60	2.35	4.11
33	33	36.55	-1314.57	-12.37	47.45	0	-926.21	2	-1096.52	2	2.60	2.35	4.11
33	34	38.00	-1314.57	-0.42	56.75	0	-916.75	2	-1112.71	2	2.18	2.35	3.46
34	34	38.00	-1314.57	-0.42	56.75	0	-916.75	2	-1112.71	2	2.18	2.35	3.46
34	35	39.45	-1314.57	11.54	48.67	0	-925.37	2	-1096.89	2	2.28	2.35	3.62
35	35	39.45	-1314.57	11.54	48.67	0	-925.37	2	-1096.89	2	2.28	2.35	3.62
35	36	40.90	-1314.57	23.51	23.28	0	-952.02	2	-1049.09	2	2.89	2.35	4.58
36	36	40.90	-1314.57	23.51	23.28	0	-952.02	2	-1049.09	2	2.89	2.35	4.58
36	37	42.35	-1314.57	35.46	-19.46	0	-996.74	2	-969.33	2	4.01	2.35	6.36
37	37	42.35	-1314.57	35.46	-19.46	0	-996.74	2	-969.33	2	4.01	2.35	6.36
37	38	43.80	-1314.57	47.42	-79.54	0	-1059.51	2	-857.59	2	5.64	2.35	8.93
38	38	43.80	-1313.58	72.57	-79.41	0	-1058.61	2	-857.07	2	5.62	2.35	8.92
38	39	45.25	-1313.40	84.53	-193.64	0	-1179.29	2	-637.95	2	7.76	2.35	12.30

combi_t0.xls

Programa DINTEL IDEAM S.A.
CONST1.F6.T0.MZ+

04/09/01

CÁLCULO TENSIONAL

ipótesis de cálculo:
ONST1.F6.T0.MZ+

onstrucción sin gradiente en fase constructiva 6

. 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL

ef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1313.40	84.53	-193.64	0	-1031.69	2	-552.12	2	9.39	2.35	14.12
39	40	46.70	-1313.18	96.49	-325.21	0	-1163.22	2	-340.16	2	12.59	2.35	18.93
40	40	46.70	-950.07	71.36	-87.75	0	-685.75	2	-514.71	2	12.64	2.35	18.98
40	41	48.15	-950.07	83.31	-199.85	0	-796.68	2	-339.00	2	16.46	2.35	24.72
41	41	48.15	-950.07	83.31	-199.85	0	-810.38	2	-287.09	2	4.59	2.35	6.90
41	42	49.60	-951.01	95.28	-329.36	0	-938.92	2	-85.52	2	9.20	2.35	13.82
42	42	49.60	-512.85	95.36	-32.00	0	-351.56	2	-314.69	2	9.20	2.35	13.82
42	43	51.05	-512.85	107.31	-178.91	0	-496.70	2	-85.34	2	14.41	2.35	21.66
43	43	51.05	-512.85	107.31	-178.91	0	-496.70	2	-85.34	2	14.41	2.35	21.66
43	44	51.50	-512.85	111.03	-228.05	0	-545.23	2	-8.64	2	16.16	2.35	24.29
44	44	51.50	-801.66	111.03	413.09	0	-70.92	2	-1294.78	2	16.16	2.35	24.29
44	45	52.50	-801.66	124.71	295.23	0	-187.47	2	-1110.36	2	20.25	2.35	30.44
45	1045	52.50	-801.66	-124.79	295.23	0	-187.47	2	-1110.36	2	20.25	2.35	30.44
45	46	53.50	-801.66	-111.10	413.17	0	-70.77	2	-1295.19	2	16.22	2.35	24.38
46	46	53.50	-512.85	-111.10	-227.97	0	-545.08	2	-9.04	2	16.22	2.35	24.38
46	47	53.95	-512.85	-107.39	-178.81	0	-496.49	2	-85.91	2	14.50	2.35	21.80
47	47	53.95	-512.85	-107.39	-178.81	0	-496.49	2	-85.91	2	14.50	2.35	21.80
47	48	55.40	-512.85	-95.44	-31.78	0	-351.14	2	-315.82	2	9.37	2.35	14.08
48	48	55.40	-951.06	-95.34	-329.15	0	-938.53	2	-86.69	2	9.37	2.35	14.08
48	49	56.85	-950.13	-83.37	-199.53	0	-809.78	2	-288.83	2	4.86	2.35	7.30
49	49	56.85	-950.13	-83.37	-199.53	0	-796.48	2	-339.13	2	16.34	2.35	24.55
49	50	58.30	-950.13	-71.41	-87.31	0	-685.48	2	-514.89	2	12.48	2.35	18.76
50	50	58.30	-1313.18	-96.57	-324.78	0	-1162.93	2	-340.31	2	12.46	2.35	18.73
50	51	59.75	-1313.39	-84.61	-193.10	0	-1031.32	2	-552.31	2	9.22	2.35	13.87
51	51	59.75	-1313.39	-84.61	-193.10	0	-1178.91	2	-638.10	2	7.62	2.35	12.09
51	52	61.20	-1313.57	-72.65	-78.76	0	-1058.16	2	-857.26	2	5.46	2.35	8.66
52	52	61.20	-1314.57	-47.50	-78.89	0	-1059.06	2	-857.78	2	5.47	2.35	8.67
52	53	62.65	-1314.57	-35.53	-18.69	0	-996.21	2	-969.56	2	3.81	2.35	6.04
53	53	62.65	-1314.57	-35.53	-18.69	0	-996.21	2	-969.56	2	3.81	2.35	6.04
53	54	64.10	-1314.57	-23.58	24.15	0	-951.43	2	-1049.35	2	2.67	2.35	4.22
54	54	64.10	-1314.57	-23.58	24.15	0	-951.43	2	-1049.35	2	2.67	2.35	4.22
54	55	65.55	-1314.57	-11.61	49.66	0	-924.68	2	-1097.18	2	2.03	2.35	3.21
55	55	65.55	-1314.57	-11.61	49.66	0	-924.68	2	-1097.18	2	2.03	2.35	3.21
55	56	67.00	-1314.57	0.35	57.84	0	-915.99	2	-1113.03	2	1.90	2.35	3.01
56	56	67.00	-1314.57	0.35	57.84	0	-915.99	2	-1113.03	2	1.90	2.35	3.01
56	57	68.45	-1314.57	12.30	48.67	0	-925.37	2	-1096.88	2	2.28	2.35	3.62
57	57	68.45	-1314.57	12.30	48.67	0	-925.37	2	-1096.88	2	2.28	2.35	3.62
57	58	69.90	-1314.57	24.27	22.16	0	-952.80	2	-1048.76	2	3.18	2.35	5.03
58	58	69.90	-1314.57	24.27	22.16	0	-952.80	2	-1048.76	2	3.18	2.35	5.03
58	59	71.35	-1314.57	36.23	-21.68	0	-998.27	2	-968.68	2	4.58	2.35	7.25
59	59	71.35	-1314.57	36.23	-21.68	0	-998.27	2	-968.68	2	4.58	2.35	7.25
59	60	72.80	-1314.57	48.19	-82.88	0	-1061.81	2	-856.60	2	6.50	2.35	10.29
60	60	72.80	-1313.58	73.34	-82.76	0	-1060.92	2	-856.09	2	6.48	2.35	10.27
60	61	74.25	-1313.40	85.30	-198.08	0	-1182.36	2	-636.63	2	8.90	2.35	14.11
61	61	74.25	-1313.40	85.30	-198.08	0	-1034.66	2	-550.53	2	10.76	2.35	16.19
61	62	75.70	-1313.18	97.26	-330.76	0	-1166.93	2	-338.17	2	14.31	2.35	21.52
62	62	75.70	-950.17	72.11	-93.30	0	-689.49	2	-512.77	2	14.33	2.35	21.54
62	63	77.15	-950.17	84.06	-206.51	0	-801.17	2	-336.65	2	18.49	2.35	27.79
63	63	77.15	-950.17	84.06	-206.51	0	-815.16	2	-283.80	2	6.44	2.35	9.67
63	64	78.60	-951.11	96.02	-337.13	0	-944.68	2	-80.93	2	11.18	2.35	16.80
64	64	78.60	-512.85	96.12	-39.76	0	-357.26	2	-310.03	2	11.18	2.35	16.80
64	65	80.05	-512.85	108.09	-187.79	0	-503.37	2	-79.39	2	16.53	2.35	24.85
65	65	80.05	-512.85	108.09	-187.79	0	-503.37	2	-79.39	2	16.53	2.35	24.85
65	66	80.50	-512.85	111.79	-237.25	0	-552.21	2	-2.29	2	18.32	2.35	27.53
66	66	80.50	-801.66	111.79	403.89	0	-77.89	2	-1288.44	2	18.32	2.35	27.53
66	67	81.50	-801.66	125.48	285.25	0	-195.12	2	-1103.12	2	22.51	2.35	33.83
67	1067	81.50	-801.66	-135.19	285.25	0	-195.12	2	-1103.12	2	22.51	2.35	33.83
67	68	82.50	-801.66	-121.50	413.59	0	-68.13	2	-1304.25	2	18.12	2.35	27.24
68	68	82.50	-585.73	-121.50	-278.56	0	-641.74	2	22.68	2	18.12	2.35	27.24
68	69	83.08	-585.73	-116.76	-210.05	0	-574.01	2	-84.46	2	15.74	2.35	23.65
69	69	83.08	-585.73	-116.76	-210.05	0	-574.01	2	-84.46	2	15.74	2.35	23.65
69	70	84.65	-585.73	-103.77	-36.41	0	-402.33	2	-356.09	2	9.70	2.35	14.57
70	70	84.65	-1096.87	-103.67	-383.34	0	-1087.54	2	-88.69	2	9.70	2.35	14.57
70	71	86.23	-1095.94	-90.68	-230.21	0	-935.52	2	-327.71	2	4.38	2.35	6.59
71	71	86.23	-1095.94	-90.68	-230.21	0	-923.30	2	-373.88	2	14.91	2.35	22.41
71	72	87.80	-1095.94	-77.69	-97.61	0	-792.20	2	-581.29	2	10.30	2.35	15.48
72	72	87.80	-1604.71	-106.00	-430.11	0	-1461.04	2	-337.14	2	10.28	2.35	15.46
72	73	89.38	-1604.91	-93.00	-273.01	0	-1304.02	2	-589.94	2	6.40	2.35	9.63
73	73	89.38	-1604.91	-93.00	-273.01	0	-1487.08	2	-675.50	2	5.29	2.35	8.39
73	74	90.95	-1605.09	-80.01	-136.38	0	-1342.77	2	-938.26	2	2.69	2.35	4.26
74	74	90.95	-1606.11	-51.72	-136.51	0	-1343.69	2	-938.76	2	2.70	2.35	4.28
74	75	92.53	-1606.11	-38.72	-65.29	0	-1269.40	2	-1070.70	2	0.69	2.35	1.09
75	75	92.53	-1606.11	-38.72	-65.29	0	-1269.40	2	-1070.70	2	0.69	2.35	1.09
75	76	94.10	-1606.11	-25.73	-14.53	0	-1216.41	2	-1164.92	2	-0.72	2.35	-1.14
76	76	94.10	-1606.11	-25.73	-14.53	0	-1216.41	2	-1164.92	2	-0.72	2.35	-1.14
76	77	95.68	-1606.11	-12.75	15.77	0	-1184.73	2	-1221.39	2	-1.52	2.35	-2.41

CÁLCULO TENSIONAL

Hipótesis de cálculo:
ONST1.F6.T0.MZ+
cción sin gradiente en fase constructiva 6

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4 ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL
def exc

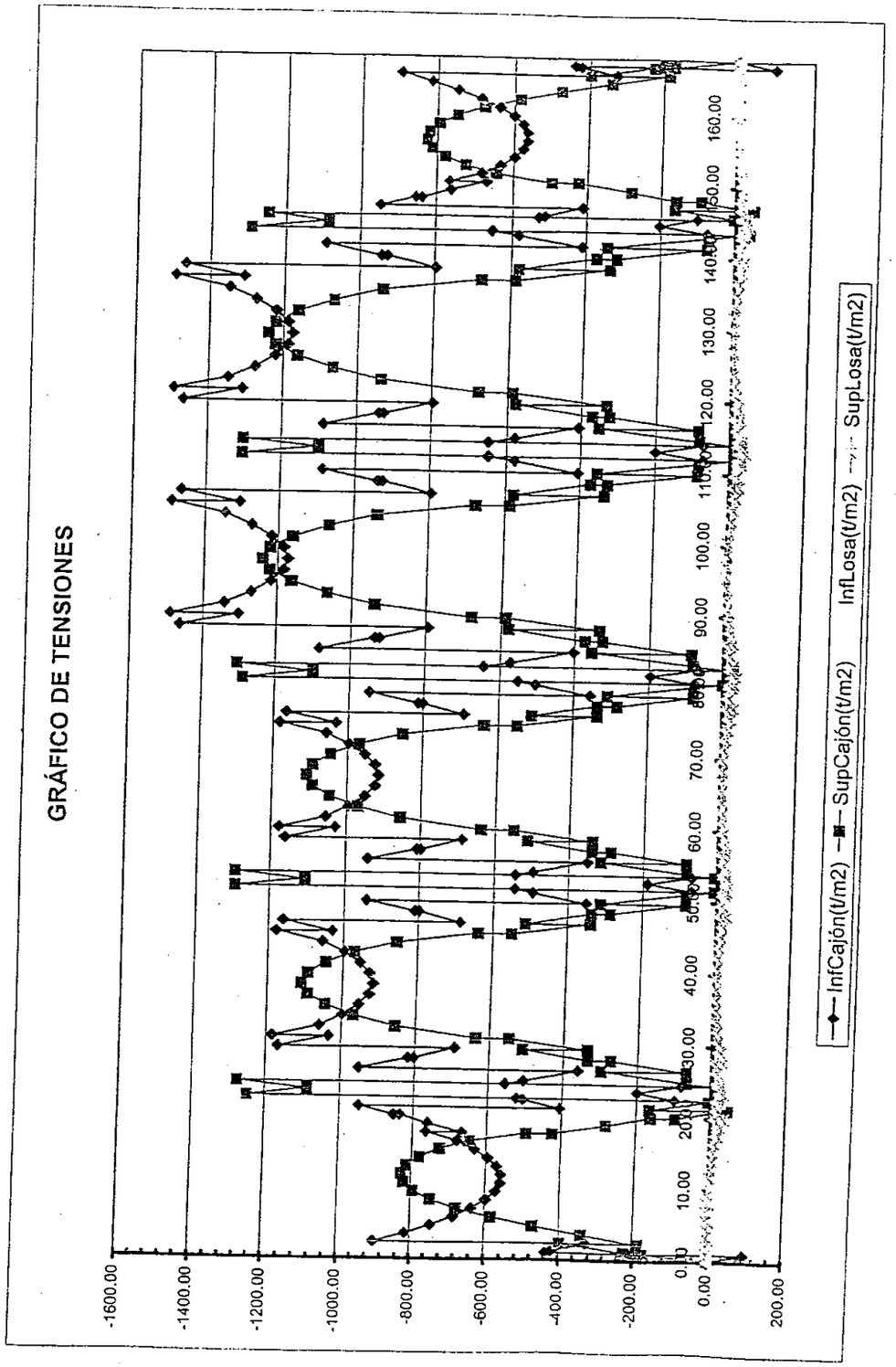
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1606.11	-12.75	15.77	0	-1184.73	2	-1221.39	2	-1.52	2.35	-2.41
77	78	97.25	-1606.11	0.24	25.59	0	-1174.36	2	-1240.12	2	-1.72	2.35	-2.73
78	78	97.25	-1606.11	0.24	25.59	0	-1174.36	2	-1240.12	2	-1.72	2.35	-2.73
78	79	98.83	-1606.11	13.23	14.99	0	-1185.27	2	-1221.16	2	-1.32	2.35	-2.09
79	79	98.83	-1606.11	13.23	14.99	0	-1185.27	2	-1221.16	2	-1.32	2.35	-2.09
79	80	100.40	-1606.11	26.21	-16.07	0	-1217.47	2	-1164.46	2	-0.32	2.35	-0.51
80	80	100.40	-1606.11	26.21	-16.07	0	-1217.47	2	-1164.46	2	-0.32	2.35	-0.51
80	81	101.98	-1606.11	39.20	-67.61	0	-1271.00	2	-1070.02	2	1.28	2.35	2.04
81	81	101.98	-1606.11	39.20	-67.61	0	-1271.00	2	-1070.02	2	1.28	2.35	2.04
81	82	103.55	-1606.11	52.20	-139.59	0	-1345.82	2	-937.85	2	3.49	2.35	5.53
82	82	103.55	-1605.10	80.49	-139.46	0	-1344.90	2	-937.35	2	3.47	2.35	5.51
82	83	105.13	-1604.92	93.48	-276.86	0	-1489.74	2	-675.37	2	6.28	2.35	9.95
83	83	105.13	-1604.92	93.48	-276.86	0	-1306.60	2	-588.57	2	7.59	2.35	11.42
83	84	106.70	-1604.71	106.48	-434.73	0	-1464.13	2	-335.49	2	11.71	2.35	17.61
84	84	106.70	-1095.90	78.19	-102.23	0	-795.28	2	-579.63	2	11.74	2.35	17.64
84	85	108.28	-1095.90	91.18	-235.59	0	-926.89	2	-371.95	2	16.59	2.35	24.93
85	85	108.28	-1095.90	91.18	-235.59	0	-938.67	2	-327.40	2	6.42	2.35	9.65
85	86	109.85	-1096.84	104.17	-389.49	0	-1091.15	2	-88.36	2	12.03	2.35	18.08
[illegible]	86	109.85	-585.73	104.25	-42.56	0	-405.95	2	-355.77	2	12.03	2.35	18.08
[illegible]	87	111.43	-585.73	117.25	-216.98	0	-578.09	2	-84.09	2	18.36	2.35	27.60
87	87	111.43	-585.73	117.25	-216.98	0	-578.09	2	-84.09	2	18.36	2.35	27.60
87	88	112.00	-585.73	121.98	-285.78	0	-645.00	2	23.09	2	20.86	2.35	31.35
88	88	112.00	-801.66	121.98	406.38	0	-72.39	2	-1303.84	2	20.86	2.35	31.35
88	89	113.00	-801.66	135.67	277.57	0	-199.64	2	-1102.72	2	25.43	2.35	38.21
89	1089	113.00	-801.66	-135.43	277.57	0	-199.64	2	-1102.72	2	25.43	2.35	38.21
89	90	114.00	-801.66	-121.74	406.15	0	-72.62	2	-1303.44	2	20.86	2.35	31.35
90	90	114.00	-585.73	-121.74	-286.01	0	-646.23	2	23.49	2	20.86	2.35	31.35
90	91	114.58	-585.73	-117.00	-217.37	0	-578.50	2	-83.41	2	18.36	2.35	27.60
91	91	114.58	-585.73	-117.00	-217.37	0	-578.50	2	-83.41	2	18.36	2.35	27.60
91	92	116.15	-585.73	-104.00	-43.33	0	-406.75	2	-354.43	2	12.03	2.35	18.07
92	92	116.15	-1096.79	-103.92	-390.26	0	-1091.91	2	-86.98	2	12.03	2.35	18.07
92	93	117.73	-1095.86	-90.93	-236.75	0	-939.84	2	-325.37	2	6.42	2.35	9.65
93	93	117.73	-1095.86	-90.93	-236.75	0	-927.65	2	-371.52	2	16.96	2.35	25.49
93	94	119.30	-1095.86	-77.94	-103.77	0	-796.30	2	-579.07	2	12.23	2.35	18.37
94	94	119.30	-1604.71	-106.23	-436.27	0	-1465.16	2	-334.93	2	12.19	2.35	18.34
94	95	120.88	-1604.92	-93.23	-278.80	0	-1307.90	2	-587.88	2	8.20	2.35	12.33
95	95	120.88	-1604.92	-93.23	-278.80	0	-1491.08	2	-674.80	2	6.77	2.35	10.74
95	96	122.45	-1605.10	-80.24	-141.77	0	-1346.49	2	-936.69	2	4.07	2.35	6.45
96	96	122.45	-1606.11	-51.95	-141.90	0	-1347.41	2	-937.19	2	4.08	2.35	6.47
96	97	124.03	-1606.11	-38.95	-70.29	0	-1272.85	2	-1069.24	2	1.98	2.35	3.13
97	97	124.03	-1606.11	-38.95	-70.29	0	-1272.85	2	-1069.24	2	1.98	2.35	3.13
97	98	125.60	-1606.11	-25.96	-19.17	0	-1219.61	2	-1163.55	2	0.47	2.35	0.75
98	98	125.60	-1606.11	-25.96	-19.17	0	-1219.61	2	-1163.55	2	0.47	2.35	0.75
98	99	127.18	-1606.11	-12.98	11.53	0	-1187.65	2	-1220.17	2	-0.43	2.35	-0.68
[illegible]	99	127.18	-1606.11	-12.98	11.53	0	-1187.65	2	-1220.17	2	-0.43	2.35	-0.68
[illegible]	100	128.75	-1606.11	0.01	21.76	0	-1177.00	2	-1239.03	2	-0.73	2.35	-1.16
100	100	128.75	-1606.11	0.01	21.76	0	-1177.00	2	-1239.03	2	-0.73	2.35	-1.16
100	101	130.33	-1606.11	13.00	11.53	0	-1187.65	2	-1220.17	2	-0.43	2.35	-0.68
101	101	130.33	-1606.11	13.00	11.53	0	-1187.65	2	-1220.17	2	-0.43	2.35	-0.68
101	102	131.90	-1606.11	25.98	-19.17	0	-1219.62	2	-1163.55	2	0.47	2.35	0.75
102	102	131.90	-1606.11	25.98	-19.17	0	-1219.62	2	-1163.55	2	0.47	2.35	0.75
102	103	133.48	-1606.11	38.97	-70.32	0	-1272.87	2	-1069.22	2	1.98	2.35	3.14
103	103	133.48	-1606.11	38.97	-70.32	0	-1272.87	2	-1069.22	2	1.98	2.35	3.14
103	104	135.05	-1606.11	51.97	-141.91	0	-1347.42	2	-937.18	2	4.09	2.35	6.48
104	104	135.05	-1605.09	80.26	-141.78	0	-1346.50	2	-936.68	2	4.07	2.35	6.46
104	105	136.63	-1604.91	93.25	-278.82	0	-1491.09	2	-674.79	2	6.78	2.35	10.75
105	105	136.63	-1604.91	93.25	-278.82	0	-1307.90	2	-587.87	2	8.20	2.35	12.34
105	106	138.20	-1604.71	106.25	-436.31	0	-1465.19	2	-334.92	2	12.20	2.35	18.35
106	106	138.20	-1095.98	77.94	-103.81	0	-796.37	2	-579.09	2	12.21	2.35	18.36
106	107	139.78	-1095.98	90.93	-236.78	0	-927.71	2	-371.55	2	16.94	2.35	25.46
107	107	139.78	-1095.98	90.93	-236.78	0	-942.35	2	-316.32	2	4.35	2.35	6.54
107	108	141.35	-1096.92	103.92	-390.30	0	-1094.77	2	-76.65	2	9.67	2.35	14.53
108	108	141.35	-585.73	104.01	-43.37	0	-409.53	2	-344.01	2	9.67	2.35	14.53
108	109	142.93	-585.73	117.01	-217.42	0	-581.63	2	-71.69	2	15.70	2.35	23.60
109	109	142.93	-585.73	117.01	-217.42	0	-581.63	2	-71.69	2	15.70	2.35	23.60
109	110	143.50	-585.73	121.75	-286.07	0	-649.51	2	35.72	2	18.09	2.35	27.19
110	110	143.50	-801.66	121.75	406.08	0	-75.90	2	-1291.20	2	18.09	2.35	27.19
110	111	144.50	-801.66	135.44	277.51	0	-203.12	2	-1089.69	2	22.47	2.35	33.78
111	1111	144.50	-801.66	-108.79	277.51	0	-203.12	2	-1089.69	2	22.47	2.35	33.78
[illegible]	112	145.50	-801.66	-95.10	379.48	0	-103.13	2	-1246.07	2	18.21	2.35	27.38
[illegible]	112	145.50	-476.41	-95.10	-236.16	0	-527.80	2	19.68	2	18.21	2.35	27.38
112	113	145.68	-476.41	-93.66	-219.66	0	-511.65	2	-5.51	2	17.50	2.35	26.30
113	113	145.68	-476.41	-93.66	-219.66	0	-511.65	2	-5.51	2	17.50	2.35	26.30
113	114	146.85	-476.41	-83.97	-115.30	0	-409.56	2	-164.64	2	12.93	2.35	19.44
114	114	146.85	-878.82	-83.77	-387.89	0	-948.46	2	44.93	2	12.93	2.35	19.44
114	115	148.03	-877.89	-74.07	-295.00	0	-857.10	2	-95.70	2	8.77	2.35	13.18

CÁLCULO TENSIONAL

ipótesis de cálculo:
ONST1.F6.T0.MZ+
onstrucción sin gradiente en fase constructiva 6

1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4 ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL
ef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.89	-74.07	-295.00	0	-839.54	2	-161.20	2	23.56	2.35	35.51
115	116	149.20	-877.89	-64.37	-213.55	0	-761.11	2	-280.69	2	18.92	2.35	28.53
116	116	149.20	-875.91	-85.18	-213.42	0	-759.85	2	-279.77	2	19.07	2.35	28.69
116	117	150.38	-876.11	-75.49	-118.84	0	-667.55	2	-423.76	2	14.85	2.35	22.34
117	117	150.38	-876.11	-75.49	-118.84	0	-764.40	2	-495.22	2	12.27	2.35	19.47
117	118	151.55	-876.30	-65.80	-35.62	0	-679.01	2	-643.94	2	9.11	2.35	14.45
118	118	151.55	-877.27	-45.08	-35.73	0	-679.89	2	-644.47	2	9.15	2.35	14.49
118	119	152.73	-877.27	-35.39	11.55	0	-632.89	2	-721.84	2	6.31	2.35	10.00
119	119	152.73	-877.27	-35.39	11.55	0	-632.89	2	-721.84	2	6.31	2.35	10.00
119	120	153.90	-877.27	-25.70	47.43	0	-597.75	2	-778.21	2	3.82	2.35	6.05
120	120	153.90	-877.27	-25.70	47.43	0	-597.75	2	-778.21	2	3.82	2.35	6.05
120	121	155.08	-877.27	-16.00	71.94	0	-574.46	2	-813.56	2	1.65	2.35	2.62
121	121	155.08	-877.27	-16.00	71.94	0	-574.46	2	-813.56	2	1.65	2.35	2.62
121	122	156.25	-877.27	-6.32	85.03	0	-563.04	2	-827.91	2	-0.17	2.35	-0.27
122	122	156.25	-877.27	-6.32	85.03	0	-563.04	2	-827.91	2	-0.17	2.35	-0.27
122	123	157.43	-877.27	3.38	86.76	0	-563.47	2	-821.28	2	-1.66	2.35	-2.63
123	123	157.43	-877.27	3.38	86.76	0	-563.47	2	-821.28	2	-1.66	2.35	-2.63
123	124	158.60	-877.27	13.06	77.10	0	-575.75	2	-793.66	2	-2.82	2.35	-4.46
124	124	158.60	-877.27	13.06	77.10	0	-575.75	2	-793.66	2	-2.82	2.35	-4.46
124	125	159.78	-877.27	22.75	56.06	0	-599.88	2	-745.01	2	-3.64	2.35	-5.76
125	125	159.78	-877.27	22.75	56.06	0	-599.88	2	-745.01	2	-3.64	2.35	-5.76
125	126	160.95	-877.27	32.44	23.62	0	-635.88	2	-675.39	2	-4.12	2.35	-6.53
126	126	160.95	-877.27	32.44	23.62	0	-635.88	2	-675.39	2	-4.12	2.35	-6.53
126	127	162.13	-877.27	42.13	-20.18	0	-683.71	2	-584.77	2	-4.28	2.35	-6.77
127	127	162.13	-877.27	42.13	-20.18	0	-683.71	2	-584.77	2	-4.28	2.35	-6.77
127	128	163.30	-877.27	51.83	-75.39	0	-743.42	2	-473.13	2	-4.09	2.35	-6.48
128	128	163.30	-877.27	51.83	-75.39	0	-743.42	2	-473.13	2	-4.09	2.35	-6.48
128	129	164.48	-877.27	61.51	-141.97	0	-814.97	2	-340.52	2	-3.57	2.35	-5.65
129	129	164.48	-877.27	61.51	-141.97	0	-814.97	2	-340.52	2	-3.57	2.35	-5.65
129	130	165.65	-877.27	71.21	-219.95	0	-898.39	2	-186.88	2	-2.71	2.35	-4.30
130	130	165.65	-476.41	71.21	30.18	0	-327.19	2	-399.02	2	-2.71	2.35	-4.30
130	131	166.83	-476.41	80.90	-59.17	0	-422.45	2	-224.42	2	-1.52	2.35	-2.41
131	131	166.83	-476.41	80.90	-59.17	0	-422.45	2	-224.42	2	-1.52	2.35	-2.41
131	132	167.00	-476.41	82.34	-73.47	0	-437.68	2	-196.57	2	-1.32	2.35	-2.09
132	132	167.00	0.00	82.34	89.81	0	95.56	2	-174.66	2	-1.32	2.35	-2.09
132	133	168.00	0.00	97.30	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



ÁLCULO TENSIONAL

ipótesis de cálculo:
ONST1.F6.T0.MZ-
onstrucción sin gradiente en fase constructiva 6
1)Pvigas + [.95; 1.05]fase1.fSO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL
sf exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-97.54	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-82.03	89.53	0	95.37	2	-174.62	2	-1.24	2.35	-1.97
2	2	1.00	-526.55	-82.03	-90.93	0	-493.99	2	-198.83	2	-1.24	2.35	-1.97
2	3	1.18	-526.55	-80.60	-76.71	0	-478.82	2	-226.62	2	-1.43	2.35	-2.27
3	3	1.18	-526.55	-80.60	-76.71	0	-478.82	2	-226.62	2	-1.43	2.35	-2.27
3	4	2.35	-526.55	-70.91	12.30	0	-383.80	2	-401.12	2	-2.54	2.35	-4.02
4	4	2.35	-969.61	-70.91	-264.17	0	-1015.13	2	-166.65	2	-2.54	2.35	-4.02
4	5	3.53	-969.61	-61.20	-186.54	0	-931.95	2	-320.19	2	-3.30	2.35	-5.23
5	5	3.53	-969.61	-61.20	-186.54	0	-931.95	2	-320.19	2	-3.30	2.35	-5.23
5	6	4.70	-969.61	-51.52	-120.31	0	-860.65	2	-452.69	2	-3.73	2.35	-5.91
6	6	4.70	-969.61	-51.52	-120.31	0	-860.65	2	-452.69	2	-3.73	2.35	-5.91
6	7	5.88	-969.61	-41.83	-65.46	0	-801.18	2	-564.22	2	-3.82	2.35	-6.06
7	7	5.88	-969.61	-41.83	-65.46	0	-801.18	2	-564.22	2	-3.82	2.35	-6.06
7	8	7.05	-969.61	-32.14	-21.98	0	-753.57	2	-654.75	2	-3.59	2.35	-5.68
8	8	7.05	-969.61	-32.14	-21.98	0	-753.57	2	-654.75	2	-3.59	2.35	-5.68
8	9	8.23	-969.61	-22.45	10.10	0	-717.83	2	-724.27	2	-3.01	2.35	-4.77
9	9	8.23	-969.61	-22.45	10.10	0	-717.83	2	-724.27	2	-3.01	2.35	-4.77
9	10	9.40	-969.61	-12.76	30.80	0	-693.92	2	-772.81	2	-2.10	2.35	-3.33
10	10	9.40	-969.61	-12.76	30.80	0	-693.92	2	-772.81	2	-2.10	2.35	-3.33
10	11	10.58	-969.61	-3.08	40.10	0	-681.90	2	-800.33	2	-0.85	2.35	-1.35
11	11	10.58	-969.61	-3.08	40.10	0	-681.90	2	-800.33	2	-0.85	2.35	-1.35
11	12	11.75	-969.61	6.63	38.03	0	-681.71	2	-806.86	2	0.73	2.35	1.15
12	12	11.75	-969.61	6.63	38.03	0	-681.71	2	-806.86	2	0.73	2.35	1.15
12	13	12.93	-969.61	16.31	24.56	0	-693.38	2	-792.40	2	2.64	2.35	4.19
13	13	12.93	-969.61	16.31	24.56	0	-693.38	2	-792.40	2	2.64	2.35	4.19
13	14	14.10	-969.61	26.00	-0.28	0	-716.90	2	-756.94	2	4.89	2.35	7.75
14	14	14.10	-969.61	26.00	-0.28	0	-716.90	2	-756.94	2	4.89	2.35	7.75
14	15	15.28	-969.61	35.69	-36.52	0	-752.28	2	-700.47	2	7.48	2.35	11.85
15	15	15.28	-969.61	35.69	-36.52	0	-752.28	2	-700.47	2	7.48	2.35	11.85
15	16	16.45	-969.61	45.38	-84.15	0	-799.53	2	-623.00	2	10.40	2.35	16.48
16	16	16.45	-968.61	68.28	-84.02	0	-798.61	2	-622.47	2	10.37	2.35	16.44
16	17	17.63	-968.43	77.97	-170.17	0	-887.05	2	-468.37	2	13.62	2.35	21.60
17	17	17.63	-968.43	77.97	-170.17	0	-777.77	2	-402.04	2	16.47	2.35	24.78
17	18	18.80	-968.23	87.67	-267.71	0	-872.97	2	-253.49	2	20.81	2.35	31.30
18	18	18.80	-970.37	64.67	-267.84	0	-874.31	2	-254.45	2	20.62	2.35	31.11
18	19	19.98	-970.37	74.37	-349.63	0	-952.97	2	-134.84	2	25.36	2.35	38.24
19	19	19.98	-970.37	74.37	-349.63	0	-974.40	2	-54.87	2	7.30	2.35	10.98
19	20	21.15	-971.31	84.05	-442.86	0	-1066.21	2	86.72	2	11.38	2.35	17.10
20	20	21.15	-526.55	84.27	-141.58	0	-470.60	2	-144.92	2	11.38	2.35	17.10
20	21	22.33	-526.55	93.96	-246.30	0	-573.16	2	15.20	2	15.86	2.35	23.84
21	21	22.33	-526.55	93.96	-246.30	0	-573.16	2	15.20	2	15.86	2.35	23.84
21	22	22.50	-526.55	95.41	-262.86	0	-589.40	2	40.57	2	16.56	2.35	24.89
22	22	22.50	-655.90	95.41	295.37	0	-98.01	2	-1000.85	2	16.56	2.35	24.89
22	23	23.50	-655.90	109.09	193.12	0	-198.37	2	-843.65	2	20.75	2.35	31.18
23	1023	23.50	-655.90	-125.67	193.12	0	-198.37	2	-843.65	2	20.75	2.35	31.18
23	24	24.50	-655.90	-111.98	311.95	0	-80.88	2	-1029.57	2	16.62	2.35	24.98
24	24	24.50	-566.83	-111.98	-274.48	0	-627.14	2	34.38	2	16.62	2.35	24.98
24	25	24.95	-566.83	-108.27	-224.93	0	-578.19	2	-42.97	2	14.86	2.35	22.34
25	25	24.95	-566.83	-108.27	-224.93	0	-578.19	2	-42.97	2	14.86	2.35	22.34
25	26	26.40	-566.83	-96.32	-76.62	0	-431.68	2	-274.49	2	9.59	2.35	14.42
26	26	26.40	-1051.20	-96.20	-405.29	0	-1080.92	2	-21.25	2	9.59	2.35	14.42
26	27	27.85	-1050.27	-84.24	-274.39	0	-951.02	2	-224.98	2	4.94	2.35	7.43
27	27	27.85	-1050.27	-84.24	-274.39	0	-930.27	2	-303.26	2	22.78	2.35	34.25
27	28	29.30	-1050.27	-72.29	-160.91	0	-818.42	2	-479.47	2	18.53	2.35	27.86
28	28	29.30	-1451.54	-100.10	-423.37	0	-1346.17	2	-286.55	2	18.54	2.35	27.87
28	29	30.75	-1451.75	-88.13	-286.54	0	-1209.72	2	-505.66	2	14.91	2.35	22.41
29	29	30.75	-1451.75	-88.13	-286.54	0	-1376.52	2	-582.43	2	12.33	2.35	19.54
29	30	32.20	-1451.93	-76.17	-167.06	0	-1250.67	2	-809.89	2	9.83	2.35	15.59
30	30	32.20	-1452.95	-48.37	-167.19	0	-1251.60	2	-810.39	2	9.85	2.35	15.60
30	31	33.65	-1452.95	-36.41	-105.72	0	-1187.87	2	-922.56	2	7.86	2.35	12.46
31	31	33.65	-1452.95	-36.41	-105.72	0	-1187.87	2	-922.56	2	7.86	2.35	12.46
31	32	35.10	-1452.95	-24.46	-61.60	0	-1142.21	2	-1002.72	2	6.39	2.35	10.12
32	32	35.10	-1452.95	-24.46	-61.60	0	-1142.21	2	-1002.72	2	6.39	2.35	10.12
32	33	36.55	-1452.95	-12.49	-34.83	0	-1114.60	2	-1050.92	2	5.43	2.35	8.60
33	33	36.55	-1452.95	-12.49	-34.83	0	-1114.60	2	-1050.92	2	5.43	2.35	8.60
33	34	38.00	-1452.95	-0.54	-25.37	0	-1105.02	2	-1067.15	2	4.97	2.35	7.87
34	34	38.00	-1452.95	-0.54	-25.37	0	-1105.02	2	-1067.15	2	4.97	2.35	7.87
34	35	39.45	-1452.95	11.42	-33.27	0	-1113.52	2	-1051.38	2	5.03	2.35	7.97
35	35	39.45	-1452.95	11.42	-33.27	0	-1113.52	2	-1051.38	2	5.03	2.35	7.97
35	36	40.90	-1452.95	23.39	-58.50	0	-1140.06	2	-1003.64	2	5.59	2.35	8.86
36	36	40.90	-1452.95	23.39	-58.50	0	-1140.06	2	-1003.64	2	5.59	2.35	8.86
36	37	42.35	-1452.95	35.34	-101.08	0	-1184.66	2	-923.93	2	6.67	2.35	10.57
37	37	42.35	-1452.95	35.34	-101.08	0	-1184.66	2	-923.93	2	6.67	2.35	10.57
37	38	43.80	-1452.95	47.30	-160.98	0	-1247.31	2	-812.23	2	8.26	2.35	13.08
38	38	43.80	-1451.93	75.11	-160.85	0	-1246.38	2	-811.73	2	8.24	2.35	13.06
38	39	45.25	-1451.75	87.07	-278.78	0	-1371.16	2	-584.72	2	10.33	2.35	16.38

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F6.T0.MZ-
Construcción sin gradiente en fase constructiva 6

[1; 1]Pvigas + [.85; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1451.75	87.07	-278.78	0	-1204.52	2	-508.43	2	12.50	2.35	18.80
39	40	46.70	-1451.54	99.03	-414.05	0	-1339.93	2	-289.88	2	15.65	2.35	23.53
40	40	46.70	-1050.07	71.24	-151.59	0	-812.11	2	-482.73	2	15.70	2.35	23.58
40	41	48.15	-1050.07	83.19	-263.53	0	-922.93	2	-307.07	2	19.47	2.35	29.25
41	41	48.15	-1050.07	83.19	-263.53	0	-940.12	2	-241.97	2	4.59	2.35	6.90
41	42	49.60	-1051.01	95.16	-392.88	0	-1068.49	2	-40.69	2	9.20	2.35	13.82
42	42	49.60	-566.83	95.24	-64.21	0	-419.37	2	-294.06	2	9.20	2.35	13.82
42	43	51.05	-566.83	107.19	-210.95	0	-564.33	2	-64.99	2	14.41	2.35	21.66
43	43	51.05	-566.83	107.19	-210.95	0	-564.33	2	-64.99	2	14.41	2.35	21.66
43	44	51.50	-566.83	110.91	-260.04	0	-612.82	2	11.62	2	16.16	2.35	24.29
44	44	51.50	-655.90	110.91	326.39	0	-66.55	2	-1052.34	2	16.16	2.35	24.29
44	45	52.50	-655.90	124.59	208.64	0	-182.98	2	-868.12	2	20.25	2.35	30.44
45	1045	52.50	-655.90	-124.78	208.64	0	-182.98	2	-868.12	2	20.25	2.35	30.44
45	46	53.50	-655.90	-111.09	326.57	0	-66.29	2	-1052.92	2	16.22	2.35	24.38
46	46	53.50	-566.83	-111.09	-259.85	0	-612.56	2	11.03	2	16.22	2.35	24.38
46	47	53.95	-566.83	-107.38	-210.69	0	-563.96	2	-65.83	2	14.50	2.35	21.80
47	47	53.95	-566.83	-107.38	-210.69	0	-563.96	2	-65.83	2	14.50	2.35	21.80
47	48	55.40	-566.83	-95.43	-63.68	0	-418.63	2	-295.72	2	9.37	2.35	14.08
48	48	55.40	-1051.08	-95.33	-392.35	0	-1067.79	2	-42.40	2	9.37	2.35	14.08
48	49	56.85	-1050.15	-83.36	-262.75	0	-939.06	2	-244.52	2	4.86	2.35	7.30
49	49	56.85	-1050.15	-83.36	-262.75	0	-922.44	2	-307.38	2	19.20	2.35	28.86
49	50	58.30	-1050.15	-71.40	-150.55	0	-811.44	2	-483.13	2	15.35	2.35	23.07
50	50	58.30	-1451.54	-99.21	-413.01	0	-1339.23	2	-290.26	2	15.32	2.35	23.04
50	51	59.75	-1451.74	-87.25	-277.46	0	-1203.64	2	-508.90	2	12.10	2.35	18.19
51	51	59.75	-1451.74	-87.25	-277.46	0	-1370.25	2	-585.11	2	10.00	2.35	15.85
51	52	61.20	-1451.92	-75.29	-159.28	0	-1245.30	2	-812.19	2	7.84	2.35	12.43
52	52	61.20	-1452.95	-47.49	-159.41	0	-1246.23	2	-812.69	2	7.85	2.35	12.44
52	53	62.65	-1452.95	-35.52	-99.23	0	-1183.39	2	-924.47	2	6.20	2.35	9.82
53	53	62.65	-1452.95	-35.52	-99.23	0	-1183.39	2	-924.47	2	6.20	2.35	9.82
53	54	64.10	-1452.95	-23.57	-56.41	0	-1138.62	2	-1004.25	2	5.06	2.35	8.01
54	54	64.10	-1452.95	-23.57	-56.41	0	-1138.62	2	-1004.25	2	5.06	2.35	8.01
54	55	65.55	-1452.95	-11.60	-30.90	0	-1111.88	2	-1052.08	2	4.42	2.35	7.00
55	55	65.55	-1452.95	-11.60	-30.90	0	-1111.88	2	-1052.08	2	4.42	2.35	7.00
55	56	67.00	-1452.95	0.36	-22.74	0	-1103.21	2	-1067.93	2	4.30	2.35	6.81
56	56	67.00	-1452.95	0.36	-22.74	0	-1103.21	2	-1067.93	2	4.30	2.35	6.81
56	57	68.45	-1452.95	12.31	-31.93	0	-1112.59	2	-1051.78	2	4.68	2.35	7.42
57	57	68.45	-1452.95	12.31	-31.93	0	-1112.59	2	-1051.78	2	4.68	2.35	7.42
57	58	69.90	-1452.95	24.28	-58.46	0	-1140.03	2	-1003.65	2	5.58	2.35	8.84
58	58	69.90	-1452.95	24.28	-58.46	0	-1140.03	2	-1003.65	2	5.58	2.35	8.84
58	59	71.35	-1452.95	36.24	-102.30	0	-1185.51	2	-923.57	2	6.99	2.35	11.07
59	59	71.35	-1452.95	36.24	-102.30	0	-1185.51	2	-923.57	2	6.99	2.35	11.07
59	60	72.80	-1452.95	48.20	-163.52	0	-1249.07	2	-811.48	2	8.91	2.35	14.11
60	60	72.80	-1451.93	76.00	-163.38	0	-1248.14	2	-810.98	2	8.89	2.35	14.09
60	61	74.25	-1451.75	87.96	-282.60	0	-1373.80	2	-583.60	2	11.32	2.35	17.93
61	61	74.25	-1451.75	87.96	-282.60	0	-1207.08	2	-507.07	2	13.68	2.35	20.56
61	62	75.70	-1451.54	99.92	-419.16	0	-1343.35	2	-288.06	2	17.23	2.35	25.91
62	62	75.70	-1050.19	72.12	-156.70	0	-815.58	2	-480.95	2	17.25	2.35	25.93
62	63	77.15	-1050.19	84.07	-269.93	0	-927.26	2	-304.83	2	21.42	2.35	32.19
63	63	77.15	-1050.19	84.07	-269.93	0	-944.65	2	-239.14	2	6.44	2.35	9.67
63	64	78.60	-1051.13	96.03	-400.57	0	-1074.19	2	-36.24	2	11.18	2.35	16.80
64	64	78.60	-566.83	96.13	-71.90	0	-425.00	2	-289.52	2	11.18	2.35	16.80
64	65	80.05	-566.83	108.10	-219.94	0	-571.12	2	-58.86	2	16.53	2.35	24.85
65	65	80.05	-566.83	108.10	-219.94	0	-571.12	2	-58.86	2	16.53	2.35	24.85
65	66	80.50	-566.83	111.80	-269.41	0	-619.96	2	18.24	2	18.32	2.35	27.53
66	66	80.50	-655.90	111.80	317.02	0	-73.69	2	-1045.71	2	18.32	2.35	27.53
66	67	81.50	-655.90	125.49	198.37	0	-190.93	2	-860.38	2	22.51	2.35	33.83
67	1067	81.50	-655.90	-135.23	198.37	0	-190.93	2	-860.38	2	22.51	2.35	33.83
67	68	82.50	-655.90	-121.54	326.75	0	-63.90	2	-1061.56	2	18.12	2.35	27.24
68	68	82.50	-647.39	-121.54	-316.06	0	-719.92	2	47.46	2	18.12	2.35	27.24
68	69	83.08	-647.39	-116.80	-247.53	0	-652.16	2	-59.72	2	15.74	2.35	23.65
69	69	83.08	-647.39	-116.80	-247.53	0	-652.16	2	-59.72	2	15.74	2.35	23.65
69	70	84.65	-647.39	-103.81	-73.83	0	-480.42	2	-331.45	2	9.70	2.35	14.57
70	70	84.65	-1212.23	-103.71	-457.28	0	-1237.70	2	-35.85	2	9.70	2.35	14.57
70	71	86.23	-1211.30	-90.72	-304.07	0	-1085.62	2	-274.97	2	4.38	2.35	6.59
71	71	86.23	-1211.30	-90.72	-304.07	0	-1070.05	2	-333.78	2	17.79	2.35	26.75
71	72	87.80	-1211.30	-77.73	-171.41	0	-938.91	2	-541.22	2	13.16	2.35	19.78
72	72	87.80	-1773.75	-109.02	-538.91	0	-1678.22	2	-271.44	2	13.15	2.35	19.77
72	73	89.38	-1773.95	-96.02	-377.03	0	-1516.29	2	-532.39	2	9.25	2.35	13.91
73	73	89.38	-1773.95	-96.02	-377.03	0	-1722.72	2	-606.10	2	7.65	2.35	12.12
73	74	90.95	-1774.13	-83.03	-235.60	0	-1573.23	2	-877.55	2	5.03	2.35	7.97
74	74	90.95	-1775.17	-51.76	-235.75	0	-1574.18	2	-878.05	2	5.04	2.35	7.98
74	75	92.53	-1775.17	-38.76	-164.47	0	-1499.85	2	-1010.01	2	3.01	2.35	4.77
75	75	92.53	-1775.17	-38.76	-164.47	0	-1499.85	2	-1010.01	2	3.01	2.35	4.77
75	76	94.10	-1775.17	-25.77	-113.63	0	-1446.81	2	-1104.24	2	1.59	2.35	2.52
76	76	94.10	-1775.17	-25.77	-113.63	0	-1446.81	2	-1104.24	2	1.59	2.35	2.52
76	77	95.68	-1775.17	-12.79	-83.27	0	-1415.09	2	-1160.73	2	0.77	2.35	1.22

combi_t0.xls

Programa DINTEL IDEAM S.A.
CONST1.F6.T0.MZ-

04/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CONST1.F6.T0.MZ-
Construcción sin gradiente en fase constructiva 6

[1; 1]Pvigas + [.85; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1775.17	-12.79	-83.27	0	-1415.09	2	-1160.73	2	0.77	2.35	1.22
77	78	97.25	-1775.17	0.20	-73.39	0	-1404.68	2	-1179.48	2	0.56	2.35	0.88
78	78	97.25	-1775.17	0.20	-73.39	0	-1404.68	2	-1179.48	2	0.56	2.35	0.88
78	79	98.83	-1775.17	13.19	-83.93	0	-1415.54	2	-1160.54	2	0.94	2.35	1.49
79	79	98.83	-1775.17	13.19	-83.93	0	-1415.54	2	-1160.54	2	0.94	2.35	1.49
79	80	100.40	-1775.17	26.17	-114.93	0	-1447.71	2	-1103.86	2	1.92	2.35	3.05
80	80	100.40	-1775.17	26.17	-114.93	0	-1447.71	2	-1103.86	2	1.92	2.35	3.05
80	81	101.98	-1775.17	39.16	-166.41	0	-1501.19	2	-1009.43	2	3.51	2.35	5.57
81	81	101.98	-1775.17	39.16	-166.41	0	-1501.19	2	-1009.43	2	3.51	2.35	5.57
81	82	103.55	-1775.17	52.16	-238.33	0	-1575.96	2	-877.28	2	5.70	2.35	9.03
82	82	103.55	-1774.14	83.43	-238.18	0	-1575.02	2	-876.79	2	5.69	2.35	9.02
82	83	105.13	-1773.96	96.42	-380.26	0	-1724.96	2	-605.15	2	8.47	2.35	13.43
83	83	105.13	-1773.96	96.42	-380.26	0	-1518.46	2	-531.24	2	10.25	2.35	15.41
83	84	106.70	-1773.75	109.42	-542.79	0	-1680.82	2	-270.05	2	14.35	2.35	21.58
84	84	106.70	-1211.26	78.15	-175.29	0	-941.49	2	-539.82	2	14.38	2.35	21.61
84	85	108.28	-1211.26	91.14	-308.59	0	-1073.06	2	-332.15	2	19.21	2.35	28.87
85	85	108.28	-1211.26	91.14	-308.59	0	-1087.87	2	-276.13	2	6.42	2.35	9.65
85	86	109.85	-1212.20	104.13	-462.43	0	-1240.28	2	-37.19	2	12.03	2.35	18.08
86	86	109.85	-647.39	104.21	-78.98	0	-483.02	2	-332.82	2	12.03	2.35	18.08
86	87	111.43	-647.39	117.21	-253.34	0	-655.10	2	-61.25	2	18.36	2.35	27.60
87	87	111.43	-647.39	117.21	-253.34	0	-655.10	2	-61.25	2	18.36	2.35	27.60
87	88	112.00	-647.39	121.94	-322.12	0	-722.99	2	45.90	2	20.86	2.35	31.35
88	88	112.00	-655.90	121.94	320.69	0	-66.97	2	-1063.13	2	20.86	2.35	31.35
88	89	113.00	-655.90	135.63	191.92	0	-194.19	2	-862.09	2	25.43	2.35	38.21
89	1089	113.00	-655.90	-135.31	191.92	0	-194.19	2	-862.09	2	25.43	2.35	38.21
89	90	114.00	-655.90	-121.62	320.38	0	-67.29	2	-1062.60	2	20.86	2.35	31.35
90	90	114.00	-647.39	-121.62	-322.43	0	-723.31	2	46.43	2	20.86	2.35	31.35
90	91	114.58	-647.39	-116.88	-253.87	0	-655.64	2	-60.35	2	18.36	2.35	27.60
91	91	114.58	-647.39	-116.88	-253.87	0	-655.64	2	-60.35	2	18.36	2.35	27.60
91	92	116.15	-647.39	-103.88	-80.01	0	-484.08	2	-331.05	2	12.03	2.35	18.07
92	92	116.15	-1212.13	-103.80	-463.46	0	-1241.30	2	-35.37	2	12.03	2.35	18.07
92	93	117.73	-1211.20	-90.81	-310.13	0	-1089.42	2	-273.43	2	6.42	2.35	9.65
93	93	117.73	-1211.20	-90.81	-310.13	0	-1074.07	2	-331.58	2	19.71	2.35	29.61
93	94	119.30	-1211.20	-77.82	-177.35	0	-942.84	2	-539.06	2	15.03	2.35	22.58
94	94	119.30	-1773.75	-109.09	-544.85	0	-1682.19	2	-269.32	2	14.99	2.35	22.53
94	95	120.88	-1773.96	-96.09	-382.84	0	-1520.18	2	-530.32	2	11.05	2.35	16.61
95	95	120.88	-1773.96	-96.09	-382.84	0	-1726.74	2	-604.39	2	9.13	2.35	14.48
95	96	122.45	-1774.14	-83.10	-241.25	0	-1577.13	2	-875.90	2	6.48	2.35	10.27
96	96	122.45	-1775.17	-51.83	-241.40	0	-1578.08	2	-876.39	2	6.49	2.35	10.28
96	97	124.03	-1775.17	-38.83	-169.99	0	-1503.65	2	-1008.39	2	4.43	2.35	7.02
97	97	124.03	-1775.17	-38.83	-169.99	0	-1503.65	2	-1008.39	2	4.43	2.35	7.02
97	98	125.60	-1775.17	-25.84	-119.05	0	-1450.55	2	-1102.64	2	2.98	2.35	4.72
98	98	125.60	-1775.17	-25.84	-119.05	0	-1450.55	2	-1102.64	2	2.98	2.35	4.72
98	99	127.18	-1775.17	-12.86	-88.53	0	-1418.71	2	-1159.21	2	2.12	2.35	3.36
99	99	127.18	-1775.17	-12.86	-88.53	0	-1418.71	2	-1159.21	2	2.12	2.35	3.36
99	100	128.75	-1775.17	0.13	-78.50	0	-1408.19	2	-1178.01	2	1.87	2.35	2.96
100	100	128.75	-1775.17	0.13	-78.50	0	-1408.19	2	-1178.01	2	1.87	2.35	2.96
100	101	130.33	-1775.17	13.12	-88.91	0	-1418.97	2	-1159.10	2	2.22	2.35	3.52
101	101	130.33	-1775.17	13.12	-88.91	0	-1418.97	2	-1159.10	2	2.22	2.35	3.52
101	102	131.90	-1775.17	26.10	-119.81	0	-1451.07	2	-1102.42	2	3.17	2.35	5.03
102	102	131.90	-1775.17	26.10	-119.81	0	-1451.07	2	-1102.42	2	3.17	2.35	5.03
102	103	133.48	-1775.17	39.09	-171.14	0	-1504.46	2	-1008.04	2	4.73	2.35	7.49
103	103	133.48	-1775.17	39.09	-171.14	0	-1504.46	2	-1008.04	2	4.73	2.35	7.49
103	104	135.05	-1775.17	52.09	-242.93	0	-1579.13	2	-875.94	2	6.88	2.35	10.90
104	104	135.05	-1774.13	83.36	-242.78	0	-1578.18	2	-875.45	2	6.87	2.35	10.89
104	105	136.63	-1773.95	96.35	-384.74	0	-1728.05	2	-603.82	2	9.63	2.35	15.26
105	105	136.63	-1773.95	96.35	-384.74	0	-1521.45	2	-529.64	2	11.64	2.35	17.50
105	106	138.20	-1773.75	109.35	-547.15	0	-1683.73	2	-268.50	2	15.70	2.35	23.61
106	106	138.20	-1211.36	78.06	-179.65	0	-944.44	2	-538.30	2	15.70	2.35	23.60
106	107	139.78	-1211.36	91.05	-312.80	0	-1075.91	2	-330.69	2	20.48	2.35	30.80
107	107	139.78	-1211.36	91.05	-312.80	0	-1094.67	2	-259.89	2	4.35	2.35	6.54
107	108	141.35	-1212.30	104.04	-466.52	0	-1247.29	2	-19.89	2	9.67	2.35	14.53
108	108	141.35	-647.39	104.13	-83.07	0	-489.97	2	-315.45	2	9.67	2.35	14.53
108	109	142.93	-647.39	117.13	-257.30	0	-662.26	2	-42.80	2	15.70	2.35	23.60
109	109	142.93	-647.39	117.13	-257.30	0	-662.26	2	-42.80	2	15.70	2.35	23.60
109	110	143.50	-647.39	121.87	-326.03	0	-730.21	2	64.73	2	18.09	2.35	27.19
110	110	143.50	-655.90	121.87	316.78	0	-74.20	2	-1044.30	2	18.09	2.35	27.19
110	111	144.50	-655.90	135.56	188.09	0	-201.55	2	-842.58	2	22.47	2.35	33.78
111	1111	144.50	-655.90	-109.31	188.09	0	-201.55	2	-842.58	2	22.47	2.35	33.78
111	112	145.50	-655.90	-95.62	290.57	0	-101.03	2	-999.84	2	18.21	2.35	27.38
112	112	145.50	-526.55	-95.62	-267.66	0	-592.42	2	41.58	2	18.21	2.35	27.38
112	113	145.68	-526.55	-94.18	-251.08	0	-576.18	2	16.23	2	17.50	2.35	26.30
113	113	145.68	-526.55	-94.18	-251.08	0	-576.18	2	16.23	2	17.50	2.35	26.30
113	114	146.85	-526.55	-84.49	-146.12	0	-473.47	2	-143.94	2	12.93	2.35	19.44
114	114	146.85	-971.30	-84.27	-447.40	0	-1069.08	2	87.72	2	12.93	2.35	19.44
114	115	148.03	-970.37	-74.57	-353.91	0	-977.10	2	-53.94	2	8.77	2.35	13.18

CÁLCULO TENSIONAL

Hipótesis de cálculo:

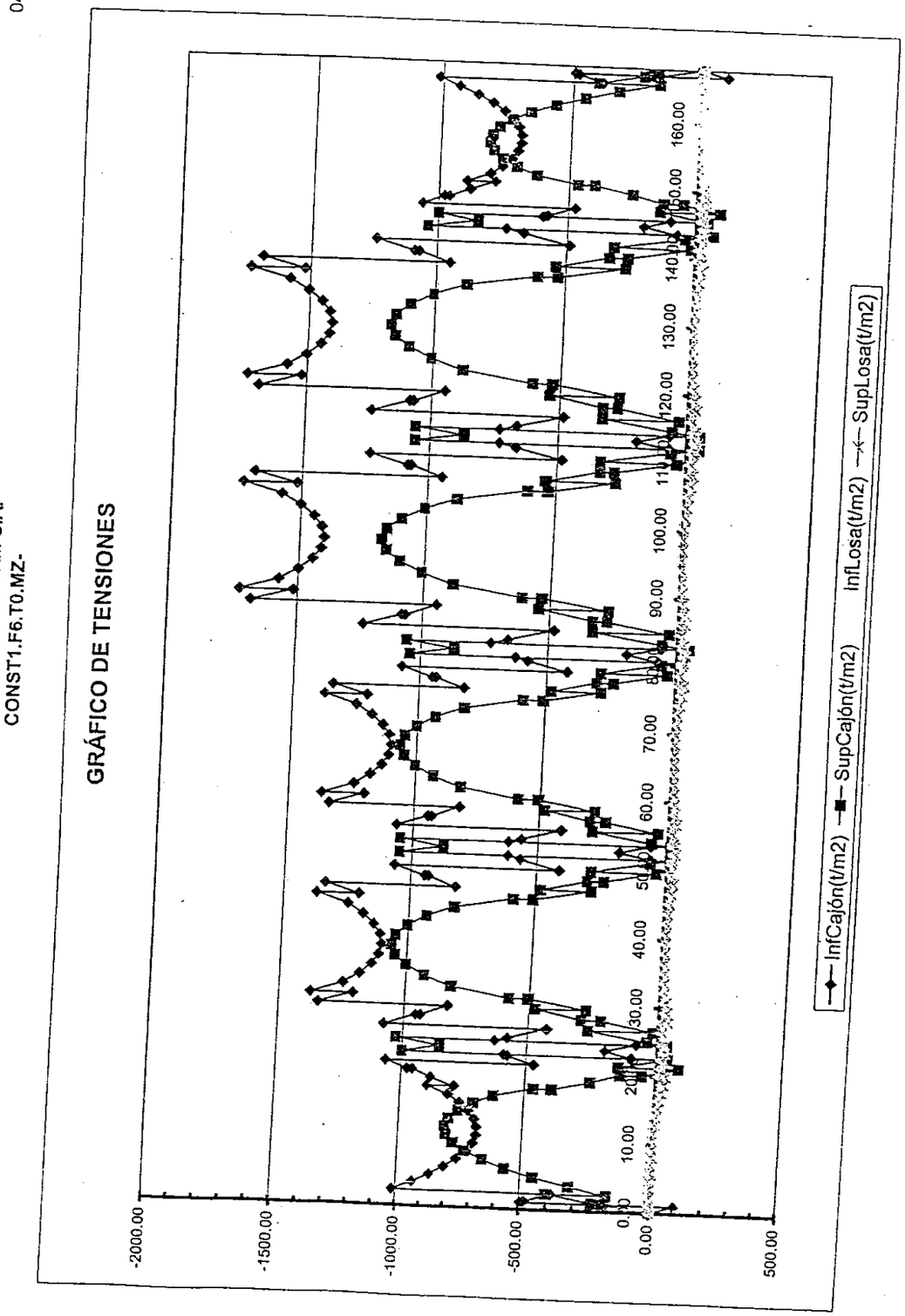
CONST1.F6.T0.MZ-

...cción sin gradiente en fase constructiva 6

[1; 1]Pvigas + [95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-970.37	-74.57	-353.91	0	-955.83	2	-133.31	2	26.69	2.35	40.23
115	116	149.20	-970.37	-64.87	-271.85	0	-876.99	2	-253.01	2	21.86	2.35	32.98
116	116	149.20	-968.23	-87.88	-271.72	0	-875.66	2	-252.05	2	22.06	2.35	33.17
116	117	150.38	-968.43	-78.19	-173.95	0	-780.30	2	-400.69	2	17.65	2.35	26.54
117	117	150.38	-968.43	-78.19	-173.95	0	-889.66	2	-467.26	2	14.59	2.35	23.13
117	118	151.55	-968.62	-68.50	-87.54	0	-801.04	2	-621.43	2	11.27	2.35	17.87
118	118	151.55	-969.61	-45.60	-87.67	0	-801.96	2	-621.96	2	11.31	2.35	17.91
118	119	152.73	-969.61	-35.91	-39.79	0	-754.54	2	-699.51	2	8.32	2.35	13.18
119	119	152.73	-969.61	-35.91	-39.79	0	-754.54	2	-699.51	2	8.32	2.35	13.18
119	120	153.90	-969.61	-26.22	-3.31	0	-718.99	2	-756.05	2	5.67	2.35	8.98
120	120	153.90	-969.61	-26.22	-3.31	0	-718.99	2	-756.05	2	5.67	2.35	8.98
120	121	155.08	-969.61	-16.52	21.80	0	-695.28	2	-791.58	2	3.35	2.35	5.31
121	121	155.08	-969.61	-16.52	21.80	0	-695.28	2	-791.58	2	3.35	2.35	5.31
121	122	156.25	-969.61	-6.84	35.51	0	-683.45	2	-806.11	2	1.37	2.35	2.17
122	122	156.25	-969.61	-6.84	35.51	0	-683.45	2	-806.11	2	1.37	2.35	2.17
122	123	157.43	-969.61	2.86	37.84	0	-683.46	2	-799.66	2	-0.27	2.35	-0.43
123	123	157.43	-969.61	2.86	37.84	0	-683.46	2	-799.66	2	-0.27	2.35	-0.43
123	124	158.60	-969.61	12.54	28.78	0	-695.32	2	-772.21	2	-1.58	2.35	-2.51
	124	158.60	-969.61	12.54	28.78	0	-695.32	2	-772.21	2	-1.58	2.35	-2.51
	125	159.78	-969.61	22.23	8.34	0	-719.04	2	-723.75	2	-2.56	2.35	-4.05
125	125	159.78	-969.61	22.23	8.34	0	-719.04	2	-723.75	2	-2.56	2.35	-4.05
125	126	160.95	-969.61	31.92	-23.50	0	-754.63	2	-654.30	2	-3.20	2.35	-5.06
126	126	160.95	-969.61	31.92	-23.50	0	-754.63	2	-654.30	2	-3.20	2.35	-5.06
126	127	162.13	-969.61	41.61	-66.70	0	-802.04	2	-563.86	2	-3.50	2.35	-5.55
127	127	162.13	-969.61	41.61	-66.70	0	-802.04	2	-563.86	2	-3.50	2.35	-5.55
127	128	163.30	-969.61	51.31	-121.31	0	-861.34	2	-452.39	2	-3.47	2.35	-5.50
128	128	163.30	-969.61	51.31	-121.31	0	-861.34	2	-452.39	2	-3.47	2.35	-5.50
128	129	164.48	-969.61	60.99	-187.29	0	-932.47	2	-319.97	2	-3.11	2.35	-4.92
129	129	164.48	-969.61	60.99	-187.29	0	-932.47	2	-319.97	2	-3.11	2.35	-4.92
129	130	165.65	-969.61	70.69	-264.67	0	-1015.48	2	-166.50	2	-2.41	2.35	-3.81
130	130	165.65	-526.55	70.69	11.80	0	-384.15	2	-400.97	2	-2.41	2.35	-3.81
130	131	166.83	-526.55	80.38	-76.95	0	-478.99	2	-226.55	2	-1.37	2.35	-2.17
131	131	166.83	-526.55	80.38	-76.95	0	-478.99	2	-226.55	2	-1.37	2.35	-2.17
131	132	167.00	-526.55	81.82	-91.17	0	-494.16	2	-198.73	2	-1.19	2.35	-1.88
132	132	167.00	0.00	81.82	89.29	0	95.20	2	-174.51	2	-1.19	2.35	-1.88
132	133	168.00	0.00	97.30	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
ERM1.T0.MZ+
manentes sin gradiente

] 1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-153.84	165.69	0	146.91	2	-191.60	2	-15.99	2.35	-27.13
2	2	1.00	-476.41	-153.84	2.41	0	-386.32	2	-213.51	2	-15.99	2.35	-27.13
2	3	1.18	-476.41	-150.88	29.08	0	-362.75	2	-244.07	2	-18.60	2.35	-31.55
3	3	1.18	-476.41	-150.88	29.08	0	-362.75	2	-244.07	2	-18.60	2.35	-31.55
3	4	2.35	-476.41	-130.93	194.63	0	-215.93	2	-435.65	2	-34.53	2.35	-58.59
4	4	2.35	-877.27	-130.93	-55.51	0	-787.13	2	-223.51	2	-34.53	2.35	-58.59
4	5	3.53	-877.27	-110.98	86.64	0	-660.30	2	-391.45	2	-47.80	2.35	-81.14
5	5	3.53	-877.27	-110.98	86.64	0	-660.30	2	-391.45	2	-47.80	2.35	-81.14
5	6	4.70	-877.27	-91.05	205.34	0	-553.48	2	-535.67	2	-58.41	2.35	-99.18
6	6	4.70	-877.27	-91.05	205.34	0	-553.48	2	-535.67	2	-58.41	2.35	-99.18
6	7	5.88	-877.27	-71.11	300.62	0	-466.66	2	-656.25	2	-66.36	2.35	-112.71
7	7	5.88	-877.27	-71.11	300.62	0	-466.66	2	-656.25	2	-66.36	2.35	-112.71
7	8	7.05	-877.27	-51.18	372.49	0	-399.83	2	-753.14	2	-71.65	2.35	-121.75
8	8	7.05	-877.27	-51.18	372.49	0	-399.83	2	-753.14	2	-71.65	2.35	-121.75
8	9	8.23	-877.27	-31.25	420.91	0	-353.02	2	-826.34	2	-74.27	2.35	-126.28
9	9	8.23	-877.27	-31.25	420.91	0	-353.02	2	-826.34	2	-74.27	2.35	-126.28
9	10	9.40	-877.27	-11.31	445.93	0	-326.18	2	-875.89	2	-74.24	2.35	-126.31
10	10	9.40	-877.27	-11.31	445.93	0	-326.18	2	-875.89	2	-74.24	2.35	-126.31
10	11	10.58	-877.27	8.61	447.50	0	-319.38	2	-901.73	2	-71.53	2.35	-121.83
11	11	10.58	-877.27	8.61	447.50	0	-319.38	2	-901.73	2	-71.53	2.35	-121.83
11	12	11.75	-877.27	28.57	425.64	0	-332.57	2	-903.90	2	-66.17	2.35	-112.85
12	12	11.75	-877.27	28.57	425.64	0	-332.57	2	-903.90	2	-66.17	2.35	-112.85
12	13	12.93	-877.27	48.51	380.38	0	-365.74	2	-882.42	2	-58.15	2.35	-99.37
13	13	12.93	-877.27	48.51	380.38	0	-365.74	2	-882.42	2	-58.15	2.35	-99.37
13	14	14.10	-877.27	68.45	311.67	0	-418.93	2	-837.25	2	-47.46	2.35	-81.38
14	14	14.10	-877.27	68.45	311.67	0	-418.93	2	-837.25	2	-47.46	2.35	-81.38
14	15	15.28	-877.27	88.38	219.54	0	-492.12	2	-768.38	2	-34.11	2.35	-58.90
15	15	15.28	-877.27	88.38	219.54	0	-492.12	2	-768.38	2	-34.11	2.35	-58.90
15	16	16.45	-877.27	108.32	103.98	0	-585.32	2	-675.84	2	-18.10	2.35	-31.90
16	16	16.45	-877.04	129.04	104.09	0	-584.68	2	-675.55	2	-18.35	2.35	-32.15
16	17	17.63	-876.98	148.98	-59.44	0	-724.44	2	-509.03	2	0.28	2.35	-0.70
17	17	17.63	-876.98	148.98	-59.44	0	-628.57	2	-443.16	2	-2.00	2.35	-3.38
17	18	18.80	-876.61	143.66	-235.16	0	-774.37	2	-273.21	2	24.77	2.35	37.59
18	18	18.80	-877.89	122.87	-235.28	0	-775.42	2	-273.92	2	24.81	2.35	37.63
18	19	19.98	-877.89	139.73	-389.63	0	-901.98	2	-131.15	2	49.66	2.35	75.67
19	19	19.98	-877.89	139.73	-389.63	0	-919.54	2	-65.64	2	34.87	2.35	53.34
19	20	21.15	-878.63	156.57	-563.86	0	-1064.60	2	100.95	2	61.59	2.35	94.27
20	20	21.15	-476.41	156.77	-291.27	0	-525.69	2	-108.62	2	61.59	2.35	94.27
20	21	22.33	-476.41	173.63	-485.40	0	-687.05	2	79.19	2	91.06	2.35	139.39
21	21	22.33	-476.41	173.63	-485.40	0	-687.05	2	79.19	2	91.06	2.35	139.39
21	22	22.50	-476.41	176.14	-516.00	0	-712.52	2	108.91	2	95.68	2.35	146.47
22	22	22.50	-801.66	176.14	99.63	0	-287.86	2	-1156.84	2	95.68	2.35	146.47
22	23	23.50	-801.66	195.92	-86.40	0	-443.34	2	-973.63	2	123.26	2.35	188.71
23	1023	23.50	-801.66	-213.92	-86.40	0	-443.34	2	-973.63	2	123.26	2.35	188.71
23	24	24.50	-801.66	-194.15	117.64	0	-269.63	2	-1186.61	2	95.46	2.35	146.13
24	24	24.50	-512.85	-194.15	-523.50	0	-743.94	2	99.54	2	95.46	2.35	146.13
24	25	24.95	-512.85	-187.69	-437.60	0	-671.01	2	10.65	2	83.60	2.35	127.96
25	25	24.95	-512.85	-187.69	-437.60	0	-671.01	2	10.65	2	83.60	2.35	127.96
25	26	26.40	-512.85	-166.90	-180.53	0	-452.76	2	-255.38	2	48.11	2.35	73.60
26	26	26.40	-951.16	-166.78	-477.90	0	-1040.21	2	-26.31	2	48.11	2.35	73.60
26	27	27.85	-950.23	-145.98	-251.08	0	-847.04	2	-260.44	2	16.79	2.35	25.64
27	27	27.85	-950.23	-145.98	-251.08	0	-830.63	2	-322.37	2	30.90	2.35	46.85
27	28	29.30	-950.23	-148.00	-37.04	0	-652.39	2	-530.69	2	-1.24	2.35	-2.40
28	28	29.30	-1313.90	-173.15	-274.50	0	-1130.03	2	-356.30	2	-1.43	2.35	-2.59
28	29	30.75	-1314.00	-148.54	-40.94	0	-931.11	2	-600.85	2	-32.94	2.35	-50.90
29	29	30.75	-1314.00	-148.54	-40.94	0	-1076.27	2	-671.68	2	-21.54	2.35	-37.78
29	30	32.20	-1314.06	-123.94	156.92	0	-898.94	2	-909.47	2	-39.88	2.35	-68.82
30	30	32.20	-1314.57	-98.78	156.80	0	-899.68	2	-909.82	2	-39.73	2.35	-68.66
30	31	33.65	-1314.57	-74.17	282.19	0	-792.70	2	-1036.19	2	-54.06	2.35	-92.89
31	31	33.65	-1314.57	-74.17	282.19	0	-792.70	2	-1036.19	2	-54.06	2.35	-92.89
31	32	35.10	-1314.57	-49.58	371.90	0	-716.20	2	-1126.49	2	-64.33	2.35	-110.25
32	32	35.10	-1314.57	-49.58	371.90	0	-716.20	2	-1126.49	2	-64.33	2.35	-110.25
32	33	36.55	-1314.57	-24.96	425.92	0	-670.16	2	-1180.74	2	-70.55	2.35	-120.75
33	33	36.55	-1314.57	-24.96	425.92	0	-670.16	2	-1180.74	2	-70.55	2.35	-120.75
33	34	38.00	-1314.57	-0.36	444.29	0	-654.56	2	-1198.94	2	-72.71	2.35	-124.40
34	34	38.00	-1314.57	-0.36	444.29	0	-654.56	2	-1198.94	2	-72.71	2.35	-124.40
34	35	39.45	-1314.57	24.25	426.96	0	-669.43	2	-1181.06	2	-70.82	2.35	-121.19
35	35	39.45	-1314.57	24.25	426.96	0	-669.43	2	-1181.06	2	-70.82	2.35	-121.19
35	36	40.90	-1314.57	48.86	373.98	0	-714.76	2	-1127.13	2	-64.89	2.35	-111.12
36	36	40.90	-1314.57	48.86	373.98	0	-714.76	2	-1127.13	2	-64.89	2.35	-111.12
36	37	42.35	-1314.57	73.45	285.31	0	-790.54	2	-1037.15	2	-54.89	2.35	-94.19
37	37	42.35	-1314.57	73.45	285.31	0	-790.54	2	-1037.15	2	-54.89	2.35	-94.19
37	38	43.80	-1314.57	98.06	160.97	0	-896.79	2	-911.10	2	-40.84	2.35	-70.41
38	38	43.80	-1314.06	123.22	161.10	0	-896.05	2	-910.75	2	-41.00	2.35	-70.57
38	39	45.25	-1314.00	147.82	-35.72	0	-1072.65	2	-673.28	2	-22.93	2.35	-39.97

CÁLCULO TENSIONAL

Hipótesis de cálculo:
ERM1.T0.MZ+
2. Permanentes sin gradiente

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Preiosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO
oef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1314.00	147.82	-35.72	0	-927.61	2	-602.75	2	-34.59	2.35	-53.37
39	40	46.70	-1313.92	172.43	-268.22	0	-1125.82	2	-358.59	2	-3.42	2.35	-5.56
40	40	46.70	-950.07	147.30	-30.76	0	-648.12	2	-532.92	2	-3.18	2.35	-5.32
40	41	48.15	-950.07	145.24	-243.41	0	-825.44	2	-325.08	2	28.54	2.35	43.29
41	41	48.15	-950.07	145.24	-243.41	0	-839.14	2	-273.17	2	16.68	2.35	25.48
41	42	49.60	-951.01	166.06	-469.13	0	-1031.20	2	-40.87	2	47.98	2.35	73.41
42	42	49.60	-512.85	166.14	-171.76	0	-443.84	2	-270.04	2	47.98	2.35	73.41
42	43	51.05	-512.85	186.93	-427.72	0	-660.97	2	-5.86	2	83.45	2.35	127.75
43	43	51.05	-512.85	186.93	-427.72	0	-660.97	2	-5.86	2	83.45	2.35	127.75
43	44	51.50	-512.85	193.39	-513.30	0	-733.57	2	82.49	2	95.31	2.35	145.91
44	44	51.50	-801.66	193.39	127.84	0	-259.25	2	-1203.66	2	95.31	2.35	145.91
44	45	52.50	-801.66	213.16	-75.45	0	-432.20	2	-991.95	2	123.10	2.35	188.48
45	1045	52.50	-801.66	-212.15	-75.45	0	-432.20	2	-991.95	2	123.10	2.35	188.48
45	46	53.50	-801.66	-192.36	126.81	0	-259.83	2	-1203.71	2	95.67	2.35	146.47
46	46	53.50	-512.85	-192.36	-514.33	0	-734.14	2	82.44	2	95.67	2.35	146.47
46	47	53.95	-512.85	-185.91	-429.21	0	-661.81	2	-5.92	2	83.98	2.35	128.56
47	47	53.95	-512.85	-185.91	-429.21	0	-661.81	2	-5.92	2	83.98	2.35	128.56
47	48	55.40	-512.85	-165.12	-174.73	0	-445.52	2	-270.16	2	49.03	2.35	75.03
48	48	55.40	-951.06	-165.02	-472.10	0	-1032.91	2	-41.02	2	49.03	2.35	75.03
48	49	56.85	-950.13	-144.21	-247.86	0	-841.69	2	-273.39	2	18.27	2.35	27.90
49	49	56.85	-950.13	-144.21	-247.86	0	-828.39	2	-323.70	2	29.75	2.35	45.16
49	50	58.30	-950.13	-145.77	-39.42	0	-653.86	2	-530.19	2	-0.81	2.35	-1.66
50	50	58.30	-1313.90	-170.93	-276.88	0	-1131.53	2	-355.83	2	-1.02	2.35	-1.88
50	51	59.75	-1313.98	-146.33	-46.54	0	-934.74	2	-599.31	2	-31.60	2.35	-48.78
51	51	59.75	-1313.98	-146.33	-46.54	0	-1079.96	2	-670.91	2	-20.87	2.35	-36.43
51	52	61.20	-1314.04	-121.72	148.12	0	-904.82	2	-907.90	2	-38.52	2.35	-66.33
52	52	61.20	-1314.57	-96.57	147.99	0	-905.56	2	-908.26	2	-38.37	2.35	-66.18
52	53	62.65	-1314.57	-71.95	270.17	0	-800.78	2	-1033.84	2	-52.01	2.35	-89.26
53	53	62.65	-1314.57	-71.95	270.17	0	-800.78	2	-1033.84	2	-52.01	2.35	-89.26
53	54	64.10	-1314.57	-47.35	356.67	0	-726.46	2	-1123.34	2	-61.59	2.35	-105.48
54	54	64.10	-1314.57	-47.35	356.67	0	-726.46	2	-1123.34	2	-61.59	2.35	-105.48
54	55	65.55	-1314.57	-22.74	407.50	0	-682.59	2	-1176.80	2	-67.13	2.35	-114.84
55	55	65.55	-1314.57	-22.74	407.50	0	-682.59	2	-1176.80	2	-67.13	2.35	-114.84
55	56	67.00	-1314.57	1.86	422.66	0	-669.18	2	-1194.21	2	-68.60	2.35	-117.34
56	56	67.00	-1314.57	1.86	422.66	0	-669.18	2	-1194.21	2	-68.60	2.35	-117.34
56	57	68.45	-1314.57	26.46	402.13	0	-686.24	2	-1175.53	2	-66.02	2.35	-112.99
57	57	68.45	-1314.57	26.46	402.13	0	-686.24	2	-1175.53	2	-66.02	2.35	-112.99
57	58	69.90	-1314.57	51.05	345.93	0	-733.75	2	-1120.80	2	-59.39	2.35	-101.78
58	58	69.90	-1314.57	51.05	345.93	0	-733.75	2	-1120.80	2	-59.39	2.35	-101.78
58	59	71.35	-1314.57	75.67	254.06	0	-811.72	2	-1030.04	2	-48.71	2.35	-83.71
59	59	71.35	-1314.57	75.67	254.06	0	-811.72	2	-1030.04	2	-48.71	2.35	-83.71
59	60	72.80	-1314.57	100.27	126.50	0	-920.16	2	-903.19	2	-33.97	2.35	-58.78
60	60	72.80	-1314.07	125.42	126.62	0	-919.43	2	-902.84	2	-34.13	2.35	-58.94
60	61	74.25	-1314.02	150.04	-73.40	0	-1098.21	2	-664.58	2	-15.37	2.35	-27.20
61	61	74.25	-1314.02	150.04	-73.40	0	-952.53	2	-590.55	2	-23.99	2.35	-37.14
61	62	75.70	-1313.93	174.64	-309.11	0	-1152.87	2	-345.32	2	8.11	2.35	12.09
62	62	75.70	-950.17	149.48	-71.65	0	-675.20	2	-519.68	2	8.32	2.35	12.31
62	63	77.15	-950.17	147.01	-276.25	0	-847.21	2	-314.38	2	37.84	2.35	57.53
63	63	77.15	-950.17	147.01	-276.25	0	-861.20	2	-261.52	2	25.79	2.35	39.41
63	64	78.60	-951.11	167.80	-504.54	0	-1055.21	2	-27.45	2	57.62	2.35	88.17
64	64	78.60	-512.85	167.90	-207.17	0	-467.79	2	-256.55	2	57.62	2.35	88.17
64	65	80.05	-512.85	188.72	-465.71	0	-686.86	2	9.40	2	93.64	2.35	143.34
65	65	80.05	-512.85	188.72	-465.71	0	-686.86	2	9.40	2	93.64	2.35	143.34
65	66	80.50	-512.85	195.16	-552.08	0	-760.06	2	98.28	2	105.67	2.35	161.76
66	66	80.50	-801.66	195.16	89.06	0	-285.75	2	-1187.87	2	105.67	2.35	161.76
66	67	81.50	-801.66	214.95	-116.00	0	-460.04	2	-974.94	2	133.84	2.35	204.91
67	1067	81.50	-801.66	-229.90	-116.00	0	-460.04	2	-974.94	2	133.84	2.35	204.91
67	68	82.50	-801.66	-210.11	104.00	0	-272.53	2	-1205.35	2	104.02	2.35	159.24
68	68	82.50	-585.73	-210.11	-588.15	0	-846.14	2	121.58	2	104.02	2.35	159.24
68	69	83.08	-585.73	-201.86	-469.71	0	-745.44	2	-1.52	2	87.78	2.35	134.36
69	69	83.08	-585.73	-201.86	-469.71	0	-745.44	2	-1.52	2	87.78	2.35	134.36
69	70	84.65	-585.73	-179.27	-169.59	0	-490.26	2	-313.55	2	46.65	2.35	71.35
70	70	84.65	-1096.87	-179.17	-516.52	0	-1175.47	2	-46.15	2	46.65	2.35	71.35
70	71	86.23	-1095.94	-156.58	-252.03	0	-949.93	2	-320.74	2	10.44	2.35	15.89
71	71	86.23	-1095.94	-156.58	-252.03	0	-937.71	2	-366.91	2	20.97	2.35	31.72
71	72	87.80	-1095.94	-158.20	8.80	0	-721.95	2	-615.28	2	-19.23	2.35	-29.89
72	72	87.80	-1605.43	-186.51	-323.70	0	-1391.01	2	-371.35	2	-19.43	2.35	-30.10
72	73	89.38	-1605.51	-159.77	-50.64	0	-1157.38	2	-661.17	2	-55.46	2.35	-85.34
73	73	89.38	-1605.51	-159.77	-50.64	0	-1336.83	2	-726.18	2	-37.85	2.35	-65.14
73	74	90.95	-1605.55	-133.05	180.34	0	-1128.65	2	-1008.88	2	-58.65	2.35	-100.36
74	74	90.95	-1606.11	-104.76	180.21	0	-1129.41	2	-1009.24	2	-58.51	2.35	-100.21
74	75	92.53	-1606.11	-78.02	324.14	0	-1005.93	2	-1157.36	2	-74.57	2.35	-127.38
75	75	92.53	-1606.11	-78.02	324.14	0	-1005.93	2	-1157.36	2	-74.57	2.35	-127.38
75	76	94.10	-1606.11	-51.30	426.00	0	-918.37	2	-1262.94	2	-85.85	2.35	-146.47
76	76	94.10	-1606.11	-51.30	426.00	0	-918.37	2	-1262.94	2	-85.85	2.35	-146.47
76	77	95.68	-1606.11	-24.58	485.73	0	-866.78	2	-1325.96	2	-92.35	2.35	-157.46

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PERM1.T0.MZ+

rmanentes sin gradiente

[1. ...Vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1606.11	-24.58	485.73	0	-866.78	2	-1325.96	2	-92.35	2.35	-157.46
77	78	97.25	-1606.11	2.15	503.37	0	-851.12	2	-1346.43	2	-94.05	2.35	-160.35
78	78	97.25	-1606.11	2.15	503.37	0	-851.12	2	-1346.43	2	-94.05	2.35	-160.35
78	79	98.83	-1606.11	28.87	478.95	0	-871.38	2	-1324.39	2	-90.99	2.35	-155.16
79	79	98.83	-1606.11	28.87	478.95	0	-871.38	2	-1324.39	2	-90.99	2.35	-155.16
79	80	100.40	-1606.11	55.59	412.42	0	-927.58	2	-1259.81	2	-83.13	2.35	-141.87
80	80	100.40	-1606.11	55.59	412.42	0	-927.58	2	-1259.81	2	-83.13	2.35	-141.87
80	81	101.98	-1606.11	82.31	303.80	0	-1019.73	2	-1152.66	2	-70.49	2.35	-120.50
81	81	101.98	-1606.11	82.31	303.80	0	-1019.73	2	-1152.66	2	-70.49	2.35	-120.50
81	82	103.55	-1606.11	109.05	153.10	0	-1147.80	2	-1002.98	2	-53.08	2.35	-91.03
82	82	103.55	-1605.60	137.34	153.23	0	-1147.05	2	-1002.64	2	-53.23	2.35	-91.19
82	83	105.13	-1605.54	164.05	-84.52	0	-1359.82	2	-718.37	2	-31.07	2.35	-53.68
83	83	105.13	-1605.54	164.05	-84.52	0	-1179.80	2	-650.21	2	-45.94	2.35	-70.75
83	84	106.70	-1605.45	190.80	-364.39	0	-1417.92	2	-358.18	2	-8.00	2.35	-12.57
84	84	106.70	-1095.90	162.51	-31.89	0	-748.84	2	-602.10	2	-7.78	2.35	-12.35
84	85	108.28	-1095.90	159.74	-286.83	0	-960.73	2	-355.58	2	30.81	2.35	46.78
85	85	108.28	-1095.90	159.74	-286.83	0	-972.51	2	-311.03	2	20.64	2.35	31.51
85	86	109.85	-1096.84	182.34	-556.29	0	-1201.27	2	-35.07	2	58.31	2.35	89.20
86	86	109.85	-585.73	182.42	-209.36	0	-516.08	2	-302.49	2	58.31	2.35	89.20
	87	111.43	-585.73	205.02	-514.45	0	-774.49	2	10.94	2	100.90	2.35	154.43
87	87	111.43	-585.73	205.02	-514.45	0	-774.49	2	10.94	2	100.90	2.35	154.43
87	88	112.00	-585.73	213.26	-634.74	0	-876.39	2	134.57	2	117.68	2.35	180.13
88	88	112.00	-801.66	213.26	57.41	0	-302.78	2	-1192.36	2	117.68	2.35	180.13
88	89	113.00	-801.66	233.05	-165.72	0	-492.31	2	-961.11	2	148.42	2.35	227.21
89	1089	113.00	-801.66	-233.00	-165.72	0	-492.31	2	-961.11	2	148.42	2.35	227.21
89	90	114.00	-801.66	-213.20	57.38	0	-302.89	2	-1192.03	2	117.62	2.35	180.05
90	90	114.00	-585.73	-213.20	-634.77	0	-876.50	2	134.90	2	117.62	2.35	180.05
90	91	114.58	-585.73	-204.95	-514.57	0	-774.72	2	11.53	2	100.82	2.35	154.31
91	91	114.58	-585.73	-204.95	-514.57	0	-774.72	2	11.53	2	100.82	2.35	154.31
91	92	116.15	-585.73	-182.35	-209.56	0	-516.49	2	-301.33	2	58.15	2.35	88.95
92	92	116.15	-1096.79	-182.27	-556.49	0	-1201.66	2	-33.88	2	58.15	2.35	88.95
92	93	117.73	-1095.86	-159.67	-287.14	0	-973.11	2	-309.27	2	20.40	2.35	31.14
93	93	117.73	-1095.86	-159.67	-287.14	0	-960.92	2	-355.42	2	30.94	2.35	46.97
93	94	119.30	-1095.86	-162.52	-31.82	0	-748.80	2	-602.05	2	-7.73	2.35	-12.30
94	94	119.30	-1605.45	-190.81	-364.32	0	-1417.89	2	-358.15	2	-7.97	2.35	-12.54
94	95	120.88	-1605.54	-164.06	-84.45	0	-1179.77	2	-650.16	2	-45.89	2.35	-70.70
95	95	120.88	-1605.54	-164.06	-84.45	0	-1359.80	2	-718.25	2	-30.96	2.35	-53.55
95	96	122.45	-1605.61	-137.35	153.36	0	-1146.99	2	-1002.52	2	-53.11	2.35	-91.06
96	96	122.45	-1606.11	-109.06	153.23	0	-1147.74	2	-1002.86	2	-52.95	2.35	-90.90
96	97	124.03	-1606.11	-82.32	303.96	0	-1019.65	2	-1152.52	2	-70.35	2.35	-120.34
97	97	124.03	-1606.11	-82.32	303.96	0	-1019.65	2	-1152.52	2	-70.35	2.35	-120.34
97	98	125.60	-1606.11	-55.60	412.57	0	-927.52	2	-1259.62	2	-82.96	2.35	-141.68
98	98	125.60	-1606.11	-55.60	412.57	0	-927.52	2	-1259.62	2	-82.96	2.35	-141.68
98	99	127.18	-1606.11	-28.88	479.14	0	-871.29	2	-1324.22	2	-90.80	2.35	-154.95
	99	127.18	-1606.11	-28.88	479.14	0	-871.29	2	-1324.22	2	-90.80	2.35	-154.95
	100	128.75	-1606.11	-2.16	503.59	0	-851.02	2	-1346.24	2	-93.85	2.35	-160.12
100	100	128.75	-1606.11	-2.16	503.59	0	-851.02	2	-1346.24	2	-93.85	2.35	-160.12
100	101	130.33	-1606.11	24.57	485.96	0	-866.67	2	-1325.74	2	-92.12	2.35	-157.20
101	101	130.33	-1606.11	24.57	485.96	0	-866.67	2	-1325.74	2	-92.12	2.35	-157.20
101	102	131.90	-1606.11	51.29	426.22	0	-918.29	2	-1262.65	2	-85.60	2.35	-146.19
102	102	131.90	-1606.11	51.29	426.22	0	-918.29	2	-1262.65	2	-85.60	2.35	-146.19
102	103	133.48	-1606.11	78.01	324.41	0	-1005.82	2	-1157.05	2	-74.30	2.35	-127.09
103	103	133.48	-1606.11	78.01	324.41	0	-1005.82	2	-1157.05	2	-74.30	2.35	-127.09
103	104	135.05	-1606.11	104.75	180.49	0	-1129.29	2	-1008.92	2	-58.22	2.35	-99.89
104	104	135.05	-1605.55	133.04	180.63	0	-1128.53	2	-1008.57	2	-58.36	2.35	-100.03
104	105	136.63	-1605.49	159.76	-50.36	0	-1336.72	2	-725.81	2	-37.53	2.35	-64.78
105	105	136.63	-1605.49	159.76	-50.36	0	-1157.25	2	-661.03	2	-55.34	2.35	-85.22
105	106	138.20	-1605.43	186.50	-323.42	0	-1390.88	2	-371.20	2	-19.31	2.35	-29.97
106	106	138.20	-1095.98	158.19	9.08	0	-721.84	2	-615.16	2	-19.11	2.35	-29.77
106	107	139.78	-1095.98	156.65	-253.78	0	-938.94	2	-366.12	2	21.65	2.35	32.71
107	107	139.78	-1095.98	156.65	-253.78	0	-953.57	2	-310.89	2	9.07	2.35	13.79
107	108	141.35	-1096.92	179.24	-518.37	0	-1179.33	2	-35.73	2	45.20	2.35	69.13
108	108	141.35	-585.73	179.33	-171.44	0	-494.06	2	-303.10	2	45.20	2.35	69.13
108	109	142.93	-585.73	201.93	-471.68	0	-749.50	2	9.54	2	86.25	2.35	132.01
109	109	142.93	-585.73	201.93	-471.68	0	-749.50	2	9.54	2	86.25	2.35	132.01
109	110	143.50	-585.73	210.18	-590.18	0	-850.29	2	132.87	2	102.47	2.35	156.85
110	110	143.50	-801.66	210.18	101.97	0	-276.68	2	-1194.05	2	102.47	2.35	156.85
110	111	144.50	-801.66	229.97	-118.07	0	-464.30	2	-963.32	2	132.23	2.35	202.44
111	1111	144.50	-801.66	-197.28	-118.07	0	-464.30	2	-963.32	2	132.23	2.35	202.44
111	112	145.50	-801.66	-177.49	69.33	0	-307.90	2	-1146.99	2	104.26	2.35	159.61
	112	145.50	-476.41	-177.49	-546.30	0	-732.56	2	118.76	2	104.26	2.35	159.61
112	113	145.68	-476.41	-174.98	-515.49	0	-706.97	2	89.00	2	99.58	2.35	152.43
113	113	145.68	-476.41	-174.98	-515.49	0	-706.97	2	89.00	2	99.58	2.35	152.43
113	114	146.85	-476.41	-158.13	-319.79	0	-544.57	2	-99.32	2	69.67	2.35	106.62
114	114	146.85	-878.82	-157.93	-592.37	0	-1083.47	2	110.25	2	69.67	2.35	106.62
114	115	148.03	-877.89	-141.06	-416.55	0	-937.35	2	-56.87	2	42.49	2.35	65.01

:ÁLCULO TENSIONAL

ipótesis de cálculo:
ERM1.T0.MZ+

Permanentes sin gradiente

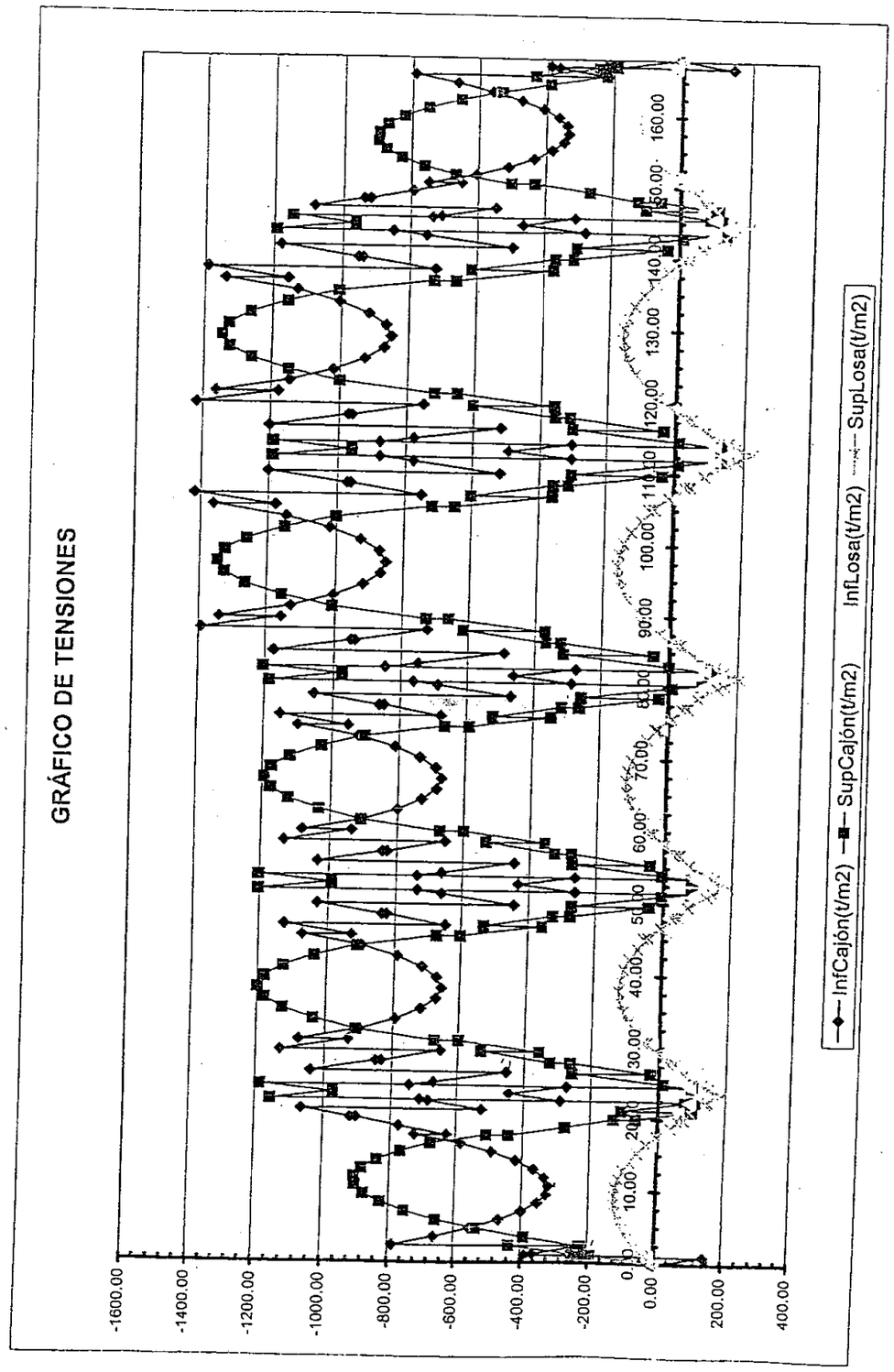
1)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO

ef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.89	-141.06	-416.55	0	-919.80	2	-122.37	2	57.29	2.35	87.33
115	116	149.20	-877.89	-124.20	-260.60	0	-792.18	2	-265.66	2	31.98	2.35	48.60
116	116	149.20	-876.61	-145.01	-260.48	0	-791.14	2	-264.96	2	31.94	2.35	48.56
116	117	150.38	-877.00	-150.80	-91.62	0	-649.86	2	-432.73	2	7.06	2.35	10.50
117	117	150.38	-877.00	-150.80	-91.62	0	-746.28	2	-501.57	2	6.76	2.35	10.23
117	118	151.55	-877.08	-130.86	74.07	0	-605.05	2	-668.60	2	-12.31	2.35	-21.96
118	118	151.55	-877.27	-110.15	73.95	0	-605.68	2	-668.87	2	-12.05	2.35	-21.70
118	119	152.73	-877.27	-90.21	191.65	0	-511.04	2	-761.91	2	-28.49	2.35	-49.42
119	119	152.73	-877.27	-90.21	191.65	0	-511.04	2	-761.91	2	-28.49	2.35	-49.42
119	120	153.90	-877.27	-70.27	285.92	0	-436.40	2	-831.27	2	-42.27	2.35	-72.63
120	120	153.90	-877.27	-70.27	285.92	0	-436.40	2	-831.27	2	-42.27	2.35	-72.63
120	121	155.08	-877.27	-50.33	356.79	0	-381.75	2	-876.94	2	-53.40	2.35	-91.36
121	121	155.08	-877.27	-50.33	356.79	0	-381.75	2	-876.94	2	-53.40	2.35	-91.36
121	122	156.25	-877.27	-30.40	404.19	0	-347.12	2	-898.93	2	-61.85	2.35	-105.56
122	122	156.25	-877.27	-30.40	404.19	0	-347.12	2	-898.93	2	-61.85	2.35	-105.56
122	123	157.43	-877.27	-10.45	428.19	0	-332.47	2	-897.26	2	-67.65	2.35	-115.27
123	123	157.43	-877.27	-10.45	428.19	0	-332.47	2	-897.26	2	-67.65	2.35	-115.27
123	124	158.60	-877.27	9.48	428.76	0	-337.83	2	-871.90	2	-70.78	2.35	-120.48
124	124	158.60	-877.27	9.48	428.76	0	-337.83	2	-871.90	2	-70.78	2.35	-120.48
124	125	159.78	-877.27	29.41	405.91	0	-363.20	2	-822.86	2	-71.25	2.35	-121.18
125	125	159.78	-877.27	29.41	405.91	0	-363.20	2	-822.86	2	-71.25	2.35	-121.18
125	126	160.95	-877.27	49.35	359.60	0	-408.57	2	-750.15	2	-69.05	2.35	-117.37
126	126	160.95	-877.27	49.35	359.60	0	-408.57	2	-750.15	2	-69.05	2.35	-117.37
126	127	162.13	-877.27	69.29	289.91	0	-473.93	2	-653.77	2	-64.20	2.35	-109.07
127	127	162.13	-877.27	69.29	289.91	0	-473.93	2	-653.77	2	-64.20	2.35	-109.07
127	128	163.30	-877.27	89.23	196.76	0	-559.30	2	-533.68	2	-56.69	2.35	-96.26
128	128	163.30	-877.27	89.23	196.76	0	-559.30	2	-533.68	2	-56.69	2.35	-96.26
128	129	164.48	-877.27	109.16	80.20	0	-664.66	2	-389.96	2	-46.51	2.35	-78.95
129	129	164.48	-877.27	109.16	80.20	0	-664.66	2	-389.96	2	-46.51	2.35	-78.95
129	130	165.65	-877.27	129.12	-59.79	0	-790.04	2	-222.52	2	-33.67	2.35	-57.14
130	130	165.65	-476.41	129.12	190.34	0	-218.84	2	-434.65	2	-33.67	2.35	-57.14
130	131	166.83	-476.41	149.06	26.93	0	-364.20	2	-243.58	2	-18.16	2.35	-30.82
131	131	166.83	-476.41	149.06	26.93	0	-364.20	2	-243.58	2	-18.16	2.35	-30.82
131	132	167.00	-476.41	152.02	0.55	0	-387.60	2	-213.04	2	-15.62	2.35	-26.51
132	132	167.00	0.00	152.02	163.83	0	145.64	2	-191.13	2	-15.62	2.35	-26.51
132	133	168.00	0.00	152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

Programa DINTEL IDEAM S.A.
PERM1.T0.MZ+

GRÁFICO DE TENSIONES



CÁLCULO TENSIONAL

Hipótesis de cálculo:
PERM1.T0.MZ-

Permanentes sin gradiente

1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CM6AL + [1; 1]CMRESTO

sif. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-131.86	142.41	0	131.15	2	-186.38	2	-11.46	2.35	-19.41
2	2	1.00	-526.55	-131.86	-38.05	0	-458.21	2	-210.60	2	-11.46	2.35	-19.41
2	3	1.18	-526.55	-129.37	-15.20	0	-437.21	2	-240.31	2	-13.32	2.35	-22.56
3	3	1.18	-526.55	-129.37	-15.20	0	-437.21	2	-240.31	2	-13.32	2.35	-22.56
3	4	2.35	-526.55	-112.51	126.89	0	-306.28	2	-426.61	2	-24.68	2.35	-41.82
4	4	2.35	-969.61	-112.51	-149.57	0	-937.60	2	-192.15	2	-24.68	2.35	-41.82
4	5	3.53	-969.61	-95.64	-27.28	0	-824.20	2	-355.63	2	-34.08	2.35	-57.77
5	5	3.53	-969.61	-95.64	-27.28	0	-824.20	2	-355.63	2	-34.08	2.35	-57.77
5	6	4.70	-969.61	-78.79	75.20	0	-728.38	2	-496.19	2	-41.51	2.35	-70.41
6	6	4.70	-969.61	-78.79	75.20	0	-728.38	2	-496.19	2	-41.51	2.35	-70.41
6	7	5.88	-969.61	-61.93	157.88	0	-650.08	2	-613.92	2	-46.99	2.35	-79.74
7	7	5.88	-969.61	-61.93	157.88	0	-650.08	2	-613.92	2	-46.99	2.35	-79.74
7	8	7.05	-969.61	-45.08	220.77	0	-589.34	2	-708.76	2	-50.50	2.35	-85.77
8	8	7.05	-969.61	-45.08	220.77	0	-589.34	2	-708.76	2	-50.50	2.35	-85.77
8	9	8.23	-969.61	-28.23	263.85	0	-546.15	2	-780.73	2	-52.05	2.35	-88.48
9	9	8.23	-969.61	-28.23	263.85	0	-546.15	2	-780.73	2	-52.05	2.35	-88.48
9	10	9.40	-969.61	-11.37	287.13	0	-520.51	2	-829.85	2	-51.64	2.35	-87.89
10	10	9.40	-969.61	-11.37	287.13	0	-520.51	2	-829.85	2	-51.64	2.35	-87.89
10	11	10.58	-969.61	5.47	290.58	0	-512.43	2	-856.07	2	-49.26	2.35	-83.99
11	11	10.58	-969.61	5.47	290.58	0	-512.43	2	-856.07	2	-49.26	2.35	-83.99
11	12	11.75	-969.61	22.35	274.24	0	-521.90	2	-859.42	2	-44.92	2.35	-76.78
12	12	11.75	-969.61	22.35	274.24	0	-521.90	2	-859.42	2	-44.92	2.35	-76.78
12	13	12.93	-969.61	39.19	238.10	0	-548.91	2	-839.91	2	-38.63	2.35	-66.26
13	13	12.93	-969.61	39.19	238.10	0	-548.91	2	-839.91	2	-38.63	2.35	-66.26
13	14	14.10	-969.61	56.05	182.15	0	-593.48	2	-797.54	2	-30.36	2.35	-52.43
14	14	14.10	-969.61	56.05	182.15	0	-593.48	2	-797.54	2	-30.36	2.35	-52.43
14	15	15.28	-969.61	72.90	106.40	0	-655.60	2	-732.27	2	-20.14	2.35	-35.30
15	15	15.28	-969.61	72.90	106.40	0	-655.60	2	-732.27	2	-20.14	2.35	-35.30
15	16	16.45	-969.61	89.76	10.82	0	-735.28	2	-644.13	2	-7.95	2.35	-14.85
16	16	16.45	-969.14	112.66	10.95	0	-734.53	2	-643.78	2	-8.14	2.35	-15.04
16	17	17.63	-969.04	129.52	-131.56	0	-861.13	2	-477.16	2	5.98	2.35	8.68
17	17	17.63	-969.04	129.52	-131.56	0	-752.46	2	-414.56	2	5.60	2.35	8.16
17	18	18.80	-969.23	171.63	-305.12	0	-897.98	2	-241.84	2	30.93	2.35	46.99
18	18	18.80	-970.37	148.65	-305.26	0	-899.01	2	-242.49	2	31.00	2.35	47.06
18	19	19.98	-970.37	168.59	-491.73	0	-1046.79	2	-89.44	2	64.79	2.35	98.82
19	19	19.98	-970.37	168.59	-491.73	0	-1068.22	2	-9.48	2	46.73	2.35	71.57
19	20	21.15	-971.31	188.51	-701.68	0	-1237.10	2	169.40	2	83.19	2.35	127.46
20	20	21.15	-526.55	188.73	-400.41	0	-641.49	2	-62.24	2	83.19	2.35	127.46
20	21	22.33	-526.55	208.67	-633.90	0	-829.07	2	139.02	2	123.41	2.35	189.10
21	21	22.33	-526.55	208.67	-633.90	0	-829.07	2	139.02	2	123.41	2.35	189.10
21	22	22.50	-526.55	211.64	-670.68	0	-858.65	2	170.85	2	129.71	2.35	198.77
22	22	22.50	-655.90	211.64	-112.45	0	-367.26	2	-870.57	2	129.71	2.35	198.77
22	23	23.50	-655.90	234.04	-335.28	0	-547.24	2	-674.85	2	167.35	2.35	256.47
23	1023	23.50	-655.90	-252.06	-335.28	0	-547.24	2	-674.85	2	167.35	2.35	256.47
23	24	24.50	-655.90	-229.66	-94.42	0	-349.17	2	-899.76	2	129.37	2.35	198.24
24	24	24.50	-566.83	-229.66	-680.84	0	-895.44	2	164.20	2	129.37	2.35	198.24
24	25	24.95	-566.83	-222.03	-579.22	0	-812.11	2	70.21	2	113.16	2.35	173.40
25	25	24.95	-566.83	-222.03	-579.22	0	-812.11	2	70.21	2	113.16	2.35	173.40
25	26	26.40	-566.83	-197.43	-275.13	0	-562.75	2	-211.07	2	64.67	2.35	99.06
26	26	26.40	-1051.20	-197.30	-603.80	0	-1211.99	2	42.17	2	64.67	2.35	99.06
26	27	27.85	-1050.27	-172.70	-335.48	0	-991.35	2	-205.46	2	21.89	2.35	33.47
27	27	27.85	-1050.27	-172.70	-335.48	0	-970.60	2	-283.75	2	39.73	2.35	60.29
27	28	29.30	-1050.27	-125.30	-120.34	0	-791.64	2	-492.43	2	7.27	2.35	10.57
28	28	29.30	-1452.04	-153.11	-382.80	0	-1319.54	2	-299.67	2	7.15	2.35	10.45
28	29	30.75	-1452.17	-132.30	-175.52	0	-1136.55	2	-541.26	2	-16.01	2.35	-25.03
29	29	30.75	-1452.17	-132.30	-175.52	0	-1301.55	2	-607.27	2	-9.25	2.35	-17.21
29	30	32.20	-1452.26	-111.50	1.60	0	-1136.68	2	-847.53	2	-22.86	2.35	-40.15
30	30	32.20	-1452.95	-83.70	1.46	0	-1137.50	2	-847.92	2	-22.74	2.35	-40.04
30	31	33.65	-1452.95	-62.89	107.75	0	-1043.45	2	-970.06	2	-33.39	2.35	-57.97
31	31	33.65	-1452.95	-62.89	107.75	0	-1043.45	2	-970.06	2	-33.39	2.35	-57.97
31	32	35.10	-1452.95	-42.10	183.86	0	-976.14	2	-1057.34	2	-41.05	2.35	-70.86
32	32	35.10	-1452.95	-42.10	183.86	0	-976.14	2	-1057.34	2	-41.05	2.35	-70.86
32	33	36.55	-1452.95	-21.29	229.80	0	-935.56	2	-1109.80	2	-45.71	2.35	-78.70
33	33	36.55	-1452.95	-21.29	229.80	0	-935.56	2	-1109.80	2	-45.71	2.35	-78.70
33	34	38.00	-1452.95	-0.50	245.61	0	-921.69	2	-1127.45	2	-47.40	2.35	-81.52
34	34	38.00	-1452.95	-0.50	245.61	0	-921.69	2	-1127.45	2	-47.40	2.35	-81.52
34	35	39.45	-1452.95	20.31	231.24	0	-934.57	2	-1110.24	2	-46.09	2.35	-79.30
35	35	39.45	-1452.95	20.31	231.24	0	-934.57	2	-1110.24	2	-46.09	2.35	-79.30
35	36	40.90	-1452.95	41.12	186.72	0	-974.16	2	-1058.20	2	-41.80	2.35	-72.04
36	36	40.90	-1452.95	41.12	186.72	0	-974.16	2	-1058.20	2	-41.80	2.35	-72.04
36	37	42.35	-1452.95	61.91	112.03	0	-1040.49	2	-971.35	2	-34.51	2.35	-59.74
37	37	42.35	-1452.95	61.91	112.03	0	-1040.49	2	-971.35	2	-34.51	2.35	-59.74
37	38	43.80	-1452.95	82.72	7.19	0	-1133.54	2	-849.65	2	-24.24	2.35	-42.40
38	38	43.80	-1452.26	110.52	7.32	0	-1132.72	2	-849.26	2	-24.36	2.35	-42.51
38	39	45.25	-1452.17	131.32	-168.36	0	-1296.60	2	-609.43	2	-11.12	2.35	-20.17

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PERM1.T0.MZ-

Permanentes sin gradiente

vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1452.17	131.32	-168.36	0	-1131.75	2	-543.83	2	-18.25	2.35	-28.39
39	40	46.70	-1452.04	152.13	-374.20	0	-1313.78	2	-302.77	2	4.46	2.35	6.41
40	40	46.70	-1050.07	124.34	-111.74	0	-785.80	2	-495.46	2	4.65	2.35	6.59
40	41	48.15	-1050.07	171.78	-325.83	0	-964.06	2	-287.17	2	36.76	2.35	55.81
41	41	48.15	-1050.07	171.78	-325.83	0	-981.25	2	-222.07	2	21.88	2.35	33.47
41	42	49.60	-1051.01	196.40	-592.77	0	-1200.46	2	23.16	2	64.66	2.35	99.05
42	42	49.60	-566.83	196.48	-264.10	0	-551.35	2	-230.20	2	64.66	2.35	99.05
42	43	51.05	-566.83	221.07	-566.80	0	-799.27	2	48.68	2	113.15	2.35	173.38
43	43	51.05	-566.83	221.07	-566.80	0	-799.27	2	48.68	2	113.15	2.35	173.38
43	44	51.50	-566.83	228.71	-668.00	0	-882.17	2	141.94	2	129.35	2.35	198.23
44	44	51.50	-655.90	228.71	-81.58	0	-335.90	2	-922.01	2	129.35	2.35	198.23
44	45	52.50	-655.90	251.10	-321.49	0	-532.99	2	-698.76	2	167.34	2.35	256.46
45	1045	52.50	-655.90	-249.73	-321.49	0	-532.99	2	-698.76	2	167.34	2.35	256.46
45	46	53.50	-655.90	-227.32	-82.97	0	-336.69	2	-922.09	2	129.85	2.35	198.99
46	46	53.50	-566.83	-227.32	-669.40	0	-882.95	2	141.86	2	129.85	2.35	198.99
46	47	53.95	-566.83	-219.68	-568.81	0	-800.40	2	48.57	2	113.87	2.35	174.49
47	47	53.95	-566.83	-219.68	-568.81	0	-800.40	2	48.57	2	113.87	2.35	174.49
47	48	55.40	-566.83	-195.08	-268.13	0	-553.62	2	-230.40	2	66.10	2.35	101.25
48	48	55.40	-1051.08	-194.98	-596.80	0	-1202.77	2	22.91	2	66.10	2.35	101.25
3	49	56.85	-1050.15	-170.37	-331.87	0	-984.69	2	-222.44	2	24.03	2.35	36.77
49	50	56.85	-1050.15	-170.37	-331.87	0	-968.07	2	-285.30	2	38.38	2.35	58.33
50	50	58.30	-1050.15	-123.39	-117.06	0	-789.33	2	-493.83	2	6.06	2.35	8.79
50	51	58.30	-1452.04	-151.21	-379.52	0	-1317.28	2	-301.11	2	5.90	2.35	8.63
51	51	59.75	-1452.16	-130.41	-175.00	0	-1136.12	2	-541.76	2	-16.45	2.35	-25.61
51	52	59.75	-1452.16	-130.41	-175.00	0	-1301.06	2	-608.05	2	-9.92	2.35	-18.07
52	52	61.20	-1452.24	-109.60	-0.64	0	-1138.08	2	-847.59	2	-22.91	2.35	-40.00
52	53	61.20	-1452.95	-81.80	-0.77	0	-1138.90	2	-847.99	2	-22.80	2.35	-39.89
53	53	62.65	-1452.95	-60.99	102.75	0	-1046.74	2	-969.42	2	-32.84	2.35	-56.82
53	54	62.65	-1452.95	-60.99	102.75	0	-1046.74	2	-969.42	2	-32.84	2.35	-56.82
54	54	64.10	-1452.95	-40.19	176.09	0	-981.32	2	-1055.99	2	-39.88	2.35	-68.69
54	55	64.10	-1452.95	-40.19	176.09	0	-981.32	2	-1055.99	2	-39.88	2.35	-68.69
55	55	65.55	-1452.95	-19.38	219.30	0	-942.61	2	-1107.75	2	-43.93	2.35	-75.54
55	56	65.55	-1452.95	-19.38	219.30	0	-942.61	2	-1107.75	2	-43.93	2.35	-75.54
56	56	67.00	-1452.95	1.42	232.34	0	-930.63	2	-1124.69	2	-45.00	2.35	-77.35
56	57	67.00	-1452.95	1.42	232.34	0	-930.63	2	-1124.69	2	-45.00	2.35	-77.35
57	57	68.45	-1452.95	22.21	215.21	0	-945.39	2	-1106.77	2	-43.08	2.35	-74.11
57	58	68.45	-1452.95	22.21	215.21	0	-945.39	2	-1106.77	2	-43.08	2.35	-74.11
58	58	69.90	-1452.95	43.01	167.93	0	-986.87	2	-1054.02	2	-38.17	2.35	-65.85
58	59	69.90	-1452.95	43.01	167.93	0	-986.87	2	-1054.02	2	-38.17	2.35	-65.85
59	59	71.35	-1452.95	63.81	90.50	0	-1055.07	2	-966.47	2	-30.27	2.35	-52.54
59	60	71.35	-1452.95	63.81	90.50	0	-1055.07	2	-966.47	2	-30.27	2.35	-52.54
60	60	72.80	-1452.95	84.61	-17.12	0	-1150.02	2	-844.05	2	-19.38	2.35	-34.19
60	61	72.80	-1452.27	112.42	-16.98	0	-1149.20	2	-843.67	2	-19.50	2.35	-34.30
61	61	74.25	-1452.18	133.22	-195.42	0	-1314.96	2	-603.14	2	-5.66	2.35	-10.95
[illegible]	62	74.25	-1452.18	133.22	-195.42	0	-1149.66	2	-535.05	2	-10.62	2.35	-16.71
[illegible]	62	75.70	-1452.05	154.02	-404.03	0	-1333.52	2	-293.05	2	12.90	2.35	19.32
62	63	75.70	-1050.19	126.22	-141.57	0	-805.58	2	-485.78	2	13.05	2.35	19.48
63	63	77.15	-1050.19	174.09	-369.67	0	-993.11	2	-272.97	2	49.09	2.35	74.72
63	64	77.15	-1050.19	174.09	-369.67	0	-1010.50	2	-207.27	2	34.11	2.35	52.20
64	64	78.60	-1051.13	198.70	-640.00	0	-1232.26	2	40.25	2	77.61	2.35	118.88
64	65	78.60	-566.83	198.80	-311.33	0	-583.07	2	-213.04	2	77.61	2.35	118.88
65	65	80.05	-566.83	223.42	-617.41	0	-833.55	2	68.12	2	126.82	2.35	194.32
65	66	80.05	-566.83	223.42	-617.41	0	-833.55	2	68.12	2	126.82	2.35	194.32
66	66	80.50	-566.83	231.04	-719.66	0	-917.23	2	162.08	2	143.25	2.35	219.50
66	67	80.50	-655.90	231.04	-133.24	0	-370.97	2	-901.87	2	143.25	2.35	219.50
67	1067	81.50	-655.90	253.45	-375.50	0	-569.81	2	-677.05	2	181.73	2.35	278.50
67	68	81.50	-655.90	-270.68	-375.50	0	-569.81	2	-677.05	2	181.73	2.35	278.50
68	68	82.50	-647.39	-248.27	-116.02	0	-356.23	2	-920.12	2	140.97	2.35	216.02
68	69	82.50	-647.39	-248.27	-758.83	0	-1012.25	2	188.91	2	140.97	2.35	216.02
69	69	83.08	-647.39	-238.52	-618.87	0	-897.34	2	58.91	2	118.77	2.35	181.98
69	70	83.08	-647.39	-238.52	-618.87	0	-897.34	2	58.91	2	118.77	2.35	181.98
70	70	84.65	-1212.23	-211.79	-264.29	0	-606.17	2	-270.61	2	62.54	2.35	95.78
70	71	84.65	-1212.23	-211.69	-647.74	0	-1363.45	2	25.00	2	62.54	2.35	95.78
71	71	86.23	-1211.30	-184.96	-335.29	0	-1106.23	2	-265.00	2	13.04	2.35	19.90
71	72	86.23	-1211.30	-184.96	-335.29	0	-1090.66	2	-323.81	2	26.45	2.35	40.06
72	72	87.80	-1211.30	-134.02	-97.02	0	-889.79	2	-564.99	2	-7.48	2.35	-11.94
72	73	87.80	-1774.25	-165.31	-464.52	0	-1629.26	2	-295.36	2	-7.63	2.35	-12.09
73	73	89.38	-1774.37	-142.71	-221.54	0	-1413.76	2	-582.19	2	-34.00	2.35	-52.50
73	74	89.38	-1774.37	-142.71	-221.54	0	-1617.67	2	-640.84	2	-22.52	2.35	-39.29
7	74	90.95	-1774.45	-120.11	-14.14	0	-1423.51	2	-926.94	2	-37.86	2.35	-65.18
7-	75	90.95	-1775.17	-88.84	-14.29	0	-1424.35	2	-927.32	2	-37.76	2.35	-65.08
75	75	92.53	-1775.17	-66.24	107.84	0	-1315.62	2	-1070.60	2	-49.61	2.35	-85.06
75	76	92.53	-1775.17	-66.24	107.84	0	-1315.62	2	-1070.60	2	-49.61	2.35	-85.06
76	76	94.10	-1775.17	-43.64	194.38	0	-1238.42	2	-1172.78	2	-57.94	2.35	-99.10
76	77	94.10	-1775.17	-43.64	194.38	0	-1238.42	2	-1172.78	2	-57.94	2.35	-99.10
	77	95.68	-1775.17	-21.06	245.33	0	-1192.77	2	-1233.85	2	-62.74	2.35	-107.19

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PERM1.T0.MZ-

C. Permanentes sin gradiente

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO

oef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1775.17	-21.06	245.33	0	-1192.77	2	-1233.85	2	-62.74	2.35	-107.19
77	78	97.25	-1775.17	1.53	260.67	0	-1178.67	2	-1253.82	2	-64.01	2.35	-109.33
78	78	97.25	-1775.17	1.53	260.67	0	-1178.67	2	-1253.82	2	-64.01	2.35	-109.33
78	79	98.83	-1775.17	24.13	240.47	0	-1196.07	2	-1232.72	2	-61.76	2.35	-105.54
79	79	98.83	-1775.17	24.13	240.47	0	-1196.07	2	-1232.72	2	-61.76	2.35	-105.54
79	80	100.40	-1775.17	46.71	184.68	0	-1245.01	2	-1170.53	2	-55.98	2.35	-95.80
80	80	100.40	-1775.17	46.71	184.68	0	-1245.01	2	-1170.53	2	-55.98	2.35	-95.80
80	81	101.98	-1775.17	69.31	93.28	0	-1325.50	2	-1067.22	2	-46.67	2.35	-80.11
81	81	101.98	-1775.17	69.31	93.28	0	-1325.50	2	-1067.22	2	-46.67	2.35	-80.11
81	82	103.55	-1775.17	91.91	-33.68	0	-1437.51	2	-922.82	2	-33.85	2.35	-58.48
82	82	103.55	-1774.48	123.18	-33.53	0	-1436.67	2	-922.44	2	-33.96	2.35	-58.60
82	83	105.13	-1774.40	145.77	-245.78	0	-1634.12	2	-635.22	2	-17.64	2.35	-31.06
83	83	105.13	-1774.40	145.77	-245.78	0	-1429.80	2	-574.34	2	-27.18	2.35	-42.04
83	84	106.70	-1774.27	168.38	-493.61	0	-1648.51	2	-285.92	2	0.57	2.35	0.47
84	84	106.70	-1211.26	137.11	-126.11	0	-909.02	2	-555.53	2	0.73	2.35	0.64
84	85	108.28	-1211.26	189.20	-381.89	0	-1121.45	2	-308.74	2	39.55	2.35	60.12
85	85	108.28	-1211.26	189.20	-381.89	0	-1136.26	2	-252.71	2	26.76	2.35	40.90
85	86	109.85	-1212.20	215.92	-700.99	0	-1397.78	2	39.02	2	78.22	2.35	119.79
86	86	109.85	-647.39	216.00	-317.54	0	-640.53	2	-256.62	2	78.22	2.35	119.79
86	87	111.43	-647.39	242.74	-678.79	0	-935.99	2	74.66	2	136.40	2.35	208.99
87	87	111.43	-647.39	242.74	-678.79	0	-935.99	2	74.66	2	136.40	2.35	208.99
87	88	112.00	-647.39	252.48	-821.20	0	-1052.49	2	205.33	2	159.33	2.35	244.13
88	88	112.00	-655.90	252.48	-178.39	0	-396.48	2	-903.70	2	159.33	2.35	244.13
88	89	113.00	-655.90	274.91	-442.06	0	-612.76	2	-659.56	2	201.33	2.35	308.52
89	1089	113.00	-655.90	-274.85	-442.06	0	-612.76	2	-659.56	2	201.33	2.35	308.52
89	90	114.00	-655.90	-252.42	-178.42	0	-396.61	2	-903.26	2	159.25	2.35	244.01
90	90	114.00	-647.39	-252.42	-821.23	0	-1052.63	2	205.77	2	159.25	2.35	244.01
90	91	114.58	-647.39	-242.67	-678.91	0	-936.27	2	75.43	2	136.29	2.35	208.82
91	91	114.58	-647.39	-242.67	-678.91	0	-936.27	2	75.43	2	136.29	2.35	208.82
91	92	116.15	-647.39	-215.93	-317.75	0	-641.04	2	-255.10	2	77.99	2.35	119.43
92	92	116.15	-1212.13	-215.85	-701.19	0	-1398.26	2	40.57	2	77.99	2.35	119.43
92	93	117.73	-1211.20	-189.13	-382.20	0	-1137.00	2	-250.41	2	26.42	2.35	40.38
93	93	117.73	-1211.20	-189.13	-382.20	0	-1121.65	2	-308.56	2	39.70	2.35	60.33
93	94	119.30	-1211.20	-136.96	-127.04	0	-909.63	2	-555.13	2	1.07	2.35	1.13
94	94	119.30	-1774.27	-168.23	-494.54	0	-1649.14	2	-285.55	2	0.89	2.35	0.95
94	95	120.88	-1774.40	-145.62	-246.95	0	-1430.60	2	-573.87	2	-26.77	2.35	-41.44
95	95	120.88	-1774.40	-145.62	-246.95	0	-1634.94	2	-634.77	2	-17.25	2.35	-30.48
95	96	122.45	-1774.49	-123.03	-34.90	0	-1437.64	2	-921.94	2	-33.51	2.35	-57.91
96	96	122.45	-1775.17	-91.76	-35.05	0	-1438.47	2	-922.31	2	-33.39	2.35	-57.79
96	97	124.03	-1775.17	-69.16	91.70	0	-1326.61	2	-1066.62	2	-46.14	2.35	-79.31
97	97	124.03	-1775.17	-69.16	91.70	0	-1326.61	2	-1066.62	2	-46.14	2.35	-79.31
97	98	125.60	-1775.17	-46.56	182.83	0	-1246.31	2	-1169.81	2	-55.36	2.35	-94.87
98	98	125.60	-1775.17	-46.56	182.83	0	-1246.31	2	-1169.81	2	-55.36	2.35	-94.87
98	99	127.18	-1775.17	-23.98	238.42	0	-1197.51	2	-1231.96	2	-61.06	2.35	-104.50
99	99	127.18	-1775.17	-23.98	238.42	0	-1197.51	2	-1231.96	2	-61.06	2.35	-104.50
99	100	128.75	-1775.17	-1.38	258.41	0	-1180.26	2	-1252.97	2	-63.24	2.35	-108.19
100	100	128.75	-1775.17	-1.38	258.41	0	-1180.26	2	-1252.97	2	-63.24	2.35	-108.19
100	101	130.33	-1775.17	21.21	242.82	0	-1194.54	2	-1232.91	2	-61.89	2.35	-105.92
101	101	130.33	-1775.17	21.21	242.82	0	-1194.54	2	-1232.91	2	-61.89	2.35	-105.92
101	102	131.90	-1775.17	43.79	191.62	0	-1240.38	2	-1171.72	2	-57.01	2.35	-97.71
102	102	131.90	-1775.17	43.79	191.62	0	-1240.38	2	-1171.72	2	-57.01	2.35	-97.71
102	103	133.48	-1775.17	66.39	104.85	0	-1317.73	2	-1069.45	2	-48.61	2.35	-83.57
103	103	133.48	-1775.17	66.39	104.85	0	-1317.73	2	-1069.45	2	-48.61	2.35	-83.57
103	104	135.05	-1775.17	88.99	-17.49	0	-1426.62	2	-926.10	2	-36.68	2.35	-63.47
104	104	135.05	-1774.45	120.26	-17.35	0	-1425.77	2	-925.72	2	-36.79	2.35	-63.57
104	105	136.63	-1774.35	142.86	-225.00	0	-1620.11	2	-639.50	2	-21.36	2.35	-37.56
105	105	136.63	-1774.35	142.86	-225.00	0	-1416.11	2	-580.79	2	-32.79	2.35	-50.71
105	106	138.20	-1774.25	165.46	-468.22	0	-1631.78	2	-293.87	2	-6.33	2.35	-10.18
106	106	138.20	-1211.36	134.17	-100.72	0	-892.33	2	-563.51	2	-6.20	2.35	-10.05
106	107	139.78	-1211.36	185.04	-337.12	0	-1091.97	2	-322.92	2	27.23	2.35	41.17
107	107	139.78	-1211.36	185.04	-337.12	0	-1110.73	2	-252.12	2	11.10	2.35	16.91
107	108	141.35	-1212.30	211.76	-649.67	0	-1368.22	2	38.62	2	60.48	2.35	92.62
108	108	141.35	-647.39	211.85	-266.23	0	-610.89	2	-256.94	2	60.48	2.35	92.62
108	109	142.93	-647.39	238.59	-620.94	0	-902.35	2	73.37	2	116.60	2.35	178.65
109	109	142.93	-647.39	238.59	-620.94	0	-902.35	2	73.37	2	116.60	2.35	178.65
109	110	143.50	-647.39	248.34	-760.96	0	-1017.37	2	203.67	2	138.76	2.35	212.63
110	110	143.50	-655.90	248.34	-118.15	0	-361.36	2	-905.36	2	138.76	2.35	212.63
110	111	144.50	-655.90	270.75	-377.67	0	-575.08	2	-661.84	2	179.44	2.35	274.99
111	1111	144.50	-655.90	-235.86	-377.67	0	-575.08	2	-661.84	2	179.44	2.35	274.99
111	112	145.50	-655.90	-213.45	-152.99	0	-393.88	2	-858.14	2	141.28	2.35	216.49
112	112	145.50	-526.55	-213.45	-711.22	0	-885.27	2	183.27	2	141.28	2.35	216.49
112	113	145.68	-526.55	-210.48	-674.17	0	-855.52	2	151.39	2	134.89	2.35	206.69
113	113	145.68	-526.55	-210.48	-674.17	0	-855.52	2	151.39	2	134.89	2.35	206.69
113	114	146.85	-526.55	-190.55	-438.57	0	-666.56	2	-50.51	2	94.07	2.35	144.13
114	114	146.85	-971.30	-190.33	-739.85	0	-1262.16	2	181.14	2	94.07	2.35	144.13
114	115	148.03	-970.37	-170.38	-527.75	0	-1091.88	2	1.59	2	57.00	2.35	87.30

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PERM1.T0.MZ-

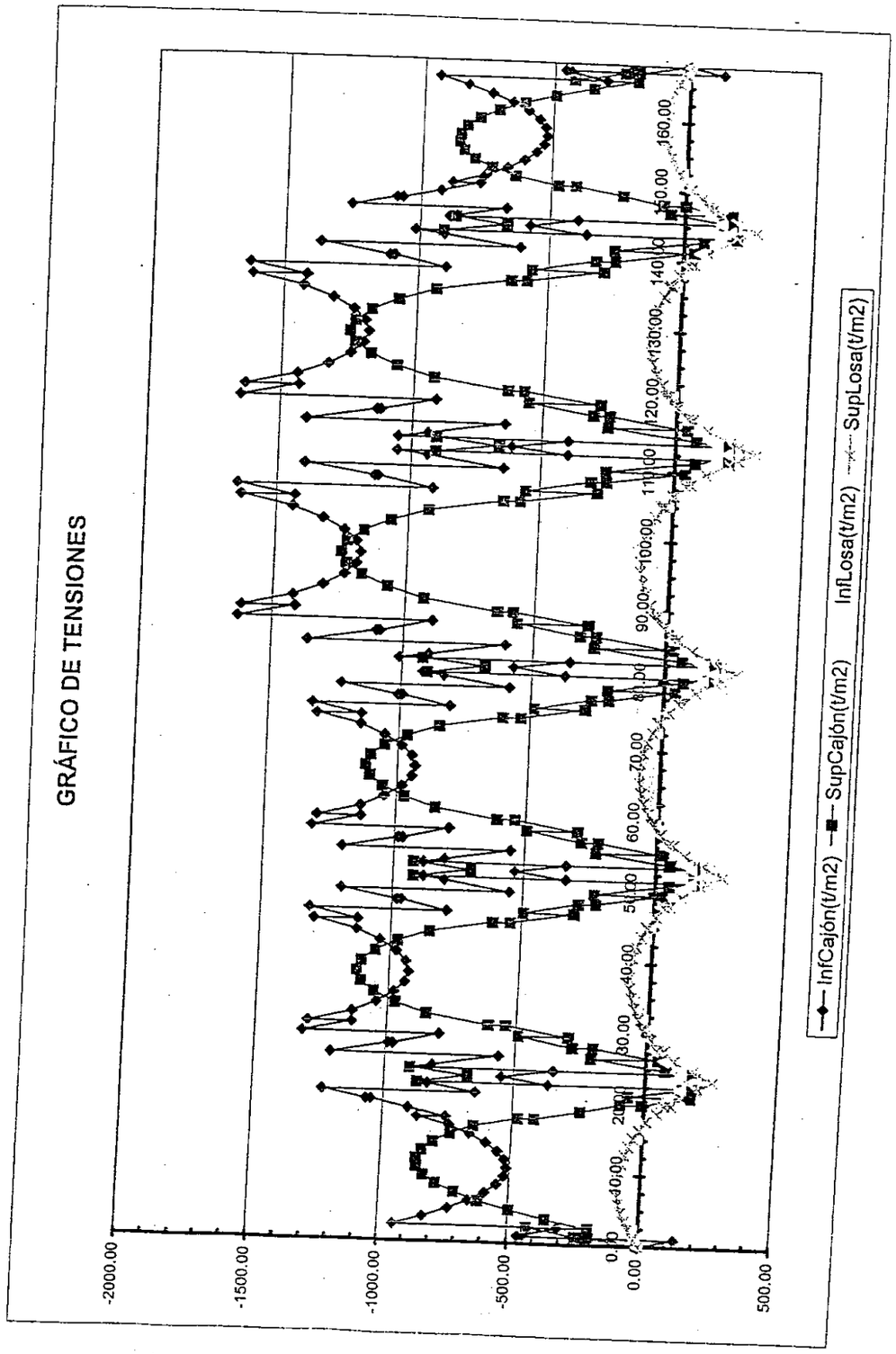
Permanentes sin gradiente

Vigas * [.85; 1.05]fase1 ISO.To * [1; 1]Prelosas * [1; 1]HBCV * [.9; 1.1]fase4 ISO.To * [.9; 1.1]fase4.HIP.To * [1; 1]HBCP * [1; 1]HVOL * [.7; 1.3]CMBAL * [1; 1]CMRESTO

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-970.37	-170.38	-527.75	0	-1070.61	2	-77.77	2	74.93	2.35	114.3
115	116	149.20	-970.37	-150.42	-339.16	0	-921.43	2	-231.51	2	40.54	2.35	61.67
116	116	149.20	-969.24	-173.43	-339.02	0	-920.40	2	-230.87	2	40.46	2.35	61.6
116	117	150.38	-969.06	-130.84	-154.92	0	-767.92	2	-406.96	2	12.20	2.35	18.2
117	117	150.38	-969.06	-130.84	-154.92	0	-876.99	2	-471.70	2	10.73	2.35	16.67
117	118	151.55	-969.17	-113.98	-10.85	0	-749.34	2	-638.68	2	-3.71	2.35	-7.5
118	118	151.55	-969.61	-91.09	-10.97	0	-750.07	2	-639.02	2	-3.52	2.35	-7.3
118	119	152.73	-969.61	-74.23	86.15	0	-669.34	2	-727.53	2	-16.02	2.35	-28.37
119	119	152.73	-969.61	-74.23	86.15	0	-669.34	2	-727.53	2	-16.02	2.35	-28.37
119	120	153.90	-969.61	-57.37	163.46	0	-606.17	2	-793.16	2	-26.56	2.35	-46.0
120	120	153.90	-969.61	-57.37	163.46	0	-606.17	2	-793.16	2	-26.56	2.35	-46.0
120	121	155.08	-969.61	-40.51	220.97	0	-560.54	2	-835.90	2	-35.14	2.35	-60.4
121	121	155.08	-969.61	-40.51	220.97	0	-560.54	2	-835.90	2	-35.14	2.35	-60.4
121	122	156.25	-969.61	-23.67	258.67	0	-532.47	2	-855.77	2	-41.76	2.35	-71.4
122	122	156.25	-969.61	-23.67	258.67	0	-532.47	2	-855.77	2	-41.76	2.35	-71.4
122	123	157.43	-969.61	-6.81	276.57	0	-521.94	2	-852.78	2	-46.41	2.35	-79.1
123	123	157.43	-969.61	-6.81	276.57	0	-521.94	2	-852.78	2	-46.41	2.35	-79.1
123	124	158.60	-969.61	10.04	274.66	0	-528.97	2	-826.92	2	-49.10	2.35	-83.6
124	124	158.60	-969.61	10.04	274.66	0	-528.97	2	-826.92	2	-49.10	2.35	-83.6
124	125	159.78	-969.61	26.89	252.95	0	-553.55	2	-778.18	2	-49.83	2.35	-84.7
125	125	159.78	-969.61	26.89	252.95	0	-553.55	2	-778.18	2	-49.83	2.35	-84.7
125	126	160.95	-969.61	43.75	211.42	0	-595.69	2	-706.57	2	-48.60	2.35	-82.57
126	126	160.95	-969.61	43.75	211.42	0	-595.69	2	-706.57	2	-48.60	2.35	-82.57
126	127	162.13	-969.61	60.61	150.11	0	-655.36	2	-612.10	2	-45.41	2.35	-77.0
127	127	162.13	-969.61	60.61	150.11	0	-655.36	2	-612.10	2	-45.41	2.35	-77.0
127	128	163.30	-969.61	77.47	68.98	0	-732.60	2	-494.73	2	-40.25	2.35	-68.2
128	128	163.30	-969.61	77.47	68.98	0	-732.60	2	-494.73	2	-40.25	2.35	-68.2
128	129	164.48	-969.61	94.32	-31.94	0	-827.37	2	-354.53	2	-33.13	2.35	-56.17
129	129	164.48	-969.61	94.32	-31.94	0	-827.37	2	-354.53	2	-33.13	2.35	-56.17
129	130	165.65	-969.61	111.19	-152.69	0	-939.71	2	-191.42	2	-24.05	2.35	-40.76
130	130	165.65	-526.55	111.19	123.78	0	-308.39	2	-425.88	2	-24.05	2.35	-40.76
130	131	166.83	-526.55	128.04	-16.75	0	-438.27	2	-239.94	2	-13.00	2.35	-22.03
131	131	166.83	-526.55	128.04	-16.75	0	-438.27	2	-239.94	2	-13.00	2.35	-22.03
131	132	167.00	-526.55	130.55	-39.41	0	-459.14	2	-210.24	2	-11.19	2.35	-18.95
132	132	167.00	0.00	130.55	141.05	0	130.22	2	-186.03	2	-11.19	2.35	-18.95
132	133	168.00	0.00	152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

GRÁFICO DE TENSIONES



CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.To.MZ+

Cuasi-Permanentes con gradiente

Vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD

Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-158.43	170.29	0	150.01	2	-192.63	2	-16.88	2.35	-28.65
2	2	1.00	-476.41	-158.43	7.01	0	-383.22	2	-214.53	2	-16.88	2.35	-28.65
2	3	1.18	-476.41	-155.47	34.48	0	-359.09	2	-245.27	2	-19.64	2.35	-33.33
3	3	1.18	-476.41	-155.47	34.48	0	-359.09	2	-245.27	2	-19.64	2.35	-33.33
3	4	2.35	-476.41	-135.53	205.42	0	-208.63	2	-438.05	2	-36.62	2.35	-62.16
4	4	2.35	-877.27	-135.53	-44.71	0	-779.83	2	-225.92	2	-36.62	2.35	-62.16
4	5	3.53	-877.27	-115.58	102.83	0	-649.34	2	-395.06	2	-50.93	2.35	-86.48
5	5	3.53	-877.27	-115.58	102.83	0	-649.34	2	-395.06	2	-50.93	2.35	-86.48
5	6	4.70	-877.27	-95.65	226.93	0	-538.88	2	-540.47	2	-62.59	2.35	-106.30
6	6	4.70	-877.27	-95.65	226.93	0	-538.88	2	-540.47	2	-62.59	2.35	-106.30
6	7	5.88	-877.27	-75.71	327.61	0	-448.40	2	-662.25	2	-71.57	2.35	-121.61
7	7	5.88	-877.27	-75.71	327.61	0	-448.40	2	-662.25	2	-71.57	2.35	-121.61
7	8	7.05	-877.27	-55.78	404.88	0	-377.92	2	-760.34	2	-77.91	2.35	-132.44
8	8	7.05	-877.27	-55.78	404.88	0	-377.92	2	-760.34	2	-77.91	2.35	-132.44
8	9	8.23	-877.27	-35.84	458.70	0	-327.45	2	-834.75	2	-81.57	2.35	-138.75
9	9	8.23	-877.27	-35.84	458.70	0	-327.45	2	-834.75	2	-81.57	2.35	-138.75
9	10	9.40	-877.27	-15.90	489.12	0	-296.97	2	-885.50	2	-82.58	2.35	-140.56
10	10	9.40	-877.27	-15.90	489.12	0	-296.97	2	-885.50	2	-82.58	2.35	-140.56
10	11	10.58	-877.27	4.02	496.08	0	-286.51	2	-912.54	2	-80.92	2.35	-137.86
11	11	10.58	-877.27	4.02	496.08	0	-286.51	2	-912.54	2	-80.92	2.35	-137.86
11	12	11.75	-877.27	23.98	479.62	0	-296.05	2	-915.91	2	-76.60	2.35	-130.66
12	12	11.75	-877.27	23.98	479.62	0	-296.05	2	-915.91	2	-76.60	2.35	-130.66
12	13	12.93	-877.27	43.91	439.76	0	-325.57	2	-895.63	2	-69.62	2.35	-118.96
13	13	12.93	-877.27	43.91	439.76	0	-325.57	2	-895.63	2	-69.62	2.35	-118.96
13	14	14.10	-877.27	63.85	376.45	0	-375.11	2	-851.66	2	-59.98	2.35	-102.75
14	14	14.10	-877.27	63.85	376.45	0	-375.11	2	-851.66	2	-59.98	2.35	-102.75
14	15	15.28	-877.27	83.78	289.72	0	-444.64	2	-784.00	2	-47.67	2.35	-82.05
15	15	15.28	-877.27	83.78	289.72	0	-444.64	2	-784.00	2	-47.67	2.35	-82.05
15	16	16.45	-877.27	103.72	179.55	0	-534.19	2	-692.65	2	-32.71	2.35	-56.84
16	16	16.45	-876.99	124.44	179.67	0	-533.53	2	-692.35	2	-32.94	2.35	-57.07
16	17	17.63	-876.93	144.39	21.53	0	-669.65	2	-527.03	2	-15.35	2.35	-27.39
17	17	17.63	-876.93	144.39	21.53	0	-575.09	2	-469.01	2	-24.45	2.35	-37.89
17	18	18.80	-876.55	139.06	-148.79	0	-717.33	2	-300.79	2	0.82	2.35	0.78
18	18	18.80	-877.89	118.28	-148.91	0	-718.39	2	-301.51	2	0.84	2.35	0.80
18	19	19.98	-877.89	135.14	-297.87	0	-841.39	2	-160.46	2	24.20	2.35	36.55
19	19	19.98	-877.89	135.14	-297.87	0	-858.95	2	-94.96	2	9.41	2.35	14.22
19	20	21.15	-878.83	151.98	-466.69	0	-1000.44	2	69.91	2	34.63	2.35	52.84
20	20	21.15	-476.41	152.18	-194.11	0	-461.54	2	-139.66	2	34.63	2.35	52.84
20	21	22.33	-476.41	169.04	-382.84	0	-619.34	2	46.43	2	62.60	2.35	95.66
21	21	22.33	-476.41	169.04	-382.84	0	-619.34	2	46.43	2	62.60	2.35	95.66
21	22	22.50	-476.41	171.55	-412.64	0	-644.28	2	75.89	2	67.00	2.35	102.40
22	22	22.50	-801.66	171.55	202.99	0	-219.61	2	-1189.86	2	67.00	2.35	102.40
22	23	23.50	-801.66	191.33	21.56	0	-372.06	2	-1008.12	2	93.30	2.35	142.68
23	1023	23.50	-801.66	-213.12	21.56	0	-372.06	2	-1008.12	2	93.30	2.35	142.68
24	24	24.50	-801.66	-193.35	224.80	0	-198.88	2	-1220.84	2	65.72	2.35	100.44
24	24	24.50	-512.85	-193.35	-416.34	0	-673.19	2	65.30	2	65.72	2.35	100.44
25	25	24.95	-512.85	-186.89	-330.80	0	-600.50	2	-23.47	2	53.96	2.35	82.43
25	26	24.95	-512.85	-186.89	-330.80	0	-600.50	2	-23.47	2	53.96	2.35	82.43
26	26	26.40	-512.85	-166.10	-74.89	0	-383.01	2	-289.13	2	18.80	2.35	28.56
26	27	26.40	-951.16	-165.98	-372.26	0	-970.46	2	-60.06	2	18.80	2.35	28.56
27	27	27.85	-950.23	-145.18	-146.60	0	-778.06	2	-293.82	2	-12.20	2.35	-18.91
27	28	27.85	-950.23	-145.18	-146.60	0	-761.65	2	-355.74	2	1.91	2.35	2.31
28	28	29.30	-950.23	-147.20	66.26	0	-584.17	2	-563.70	2	-29.91	2.35	-46.45
28	29	29.30	-1313.89	-172.35	-171.18	0	-1061.81	2	-389.30	2	-30.10	2.35	-46.64
29	29	30.75	-1313.98	-147.74	61.22	0	-863.66	2	-633.48	2	-61.28	2.35	-94.46
29	30	30.75	-1313.98	-147.74	61.22	0	-1007.15	2	-694.40	2	-41.28	2.35	-71.48
30	30	32.20	-1314.05	-123.14	257.92	0	-830.61	2	-931.93	2	-59.40	2.35	-102.13
30	31	32.20	-1314.57	-97.98	257.79	0	-831.35	2	-932.29	2	-59.24	2.35	-101.98
31	31	33.65	-1314.57	-73.37	382.03	0	-725.16	2	-1058.41	2	-73.35	2.35	-125.82
31	32	33.65	-1314.57	-73.37	382.03	0	-725.16	2	-1058.41	2	-73.35	2.35	-125.82
32	32	35.10	-1314.57	-48.78	470.58	0	-649.44	2	-1148.44	2	-83.40	2.35	-142.80
32	33	35.10	-1314.57	-48.78	470.58	0	-649.44	2	-1148.44	2	-83.40	2.35	-142.80
33	33	36.55	-1314.57	-24.16	523.43	0	-604.18	2	-1202.44	2	-89.39	2.35	-152.92
33	34	36.55	-1314.57	-24.16	523.43	0	-604.18	2	-1202.44	2	-89.39	2.35	-152.92
34	34	38.00	-1314.57	0.44	540.65	0	-589.37	2	-1220.38	2	-91.34	2.35	-156.19
34	35	38.00	-1314.57	0.44	540.65	0	-589.37	2	-1220.38	2	-91.34	2.35	-156.19
35	35	39.45	-1314.57	25.05	522.16	0	-605.03	2	-1202.24	2	-89.22	2.35	-152.59
35	36	39.45	-1314.57	25.05	522.16	0	-605.03	2	-1202.24	2	-89.22	2.35	-152.59
36	36	40.90	-1314.57	49.66	468.02	0	-651.14	2	-1148.05	2	-83.06	2.35	-142.15
36	37	40.90	-1314.57	49.66	468.02	0	-651.14	2	-1148.05	2	-83.06	2.35	-142.15
37	37	42.35	-1314.57	74.25	378.18	0	-727.71	2	-1057.82	2	-72.84	2.35	-124.83
37	38	42.35	-1314.57	74.25	378.18	0	-727.71	2	-1057.82	2	-72.84	2.35	-124.83
38	38	43.80	-1314.57	98.87	252.68	0	-834.74	2	-931.51	2	-58.56	2.35	-100.67
38	39	43.80	-1314.07	124.02	252.81	0	-834.01	2	-931.16	2	-58.72	2.35	-100.83
38	39	45.25	-1314.01	148.62	54.83	0	-1011.39	2	-693.43	2	-40.43	2.35	-69.84

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.To.MZ+

Cuasi-Permanentes con gradiente

1.1]Vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD

oef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1314.01	148.62	54.83	0	-857.83	2	-631.68	2	-59.71	2.35	-91.98
39	40	46.70	-1313.93	173.23	-178.83	0	-1066.80	2	-387.15	2	-28.22	2.35	-43.68
40	40	46.70	-950.07	148.10	58.63	0	-589.10	2	-561.47	2	-27.98	2.35	-43.43
40	41	48.15	-950.07	148.04	-155.18	0	-767.18	2	-353.27	2	4.06	2.35	5.67
41	41	48.15	-950.07	146.04	-155.18	0	-780.89	2	-301.36	2	-7.80	2.35	-12.14
41	42	49.60	-951.01	166.86	-382.06	0	-973.71	2	-68.69	2	23.82	2.35	36.29
42	42	49.60	-512.85	166.94	-84.69	0	-386.36	2	-297.86	2	23.82	2.35	36.29
42	43	51.05	-512.85	187.73	-341.81	0	-604.25	2	-33.30	2	59.61	2.35	91.12
43	43	51.05	-512.85	187.73	-341.81	0	-604.25	2	-33.30	2	59.61	2.35	91.12
43	44	51.50	-512.85	194.19	-427.75	0	-677.08	2	55.16	2	71.57	2.35	109.43
44	44	51.50	-801.66	194.19	213.39	0	-202.77	2	-1230.99	2	71.57	2.35	109.43
44	45	52.50	-801.66	213.96	9.30	0	-376.24	2	-1019.02	2	99.58	2.35	152.34
45	1045	52.50	-801.66	-212.25	9.30	0	-376.24	2	-1019.02	2	99.58	2.35	152.34
45	46	53.50	-801.66	-192.46	211.65	0	-203.82	2	-1230.81	2	72.13	2.35	110.30
46	46	53.50	-512.85	-192.46	-429.49	0	-678.13	2	55.33	2	72.13	2.35	110.30
46	47	53.95	-512.85	-186.00	-344.32	0	-605.76	2	-33.04	2	60.43	2.35	92.37
47	47	53.95	-512.85	-186.00	-344.32	0	-605.76	2	-33.04	2	60.43	2.35	92.37
47	48	55.40	-512.85	-165.21	-89.72	0	-389.30	2	-297.32	2	25.45	2.35	38.79
48	48	55.40	-951.06	-165.11	-387.09	0	-976.78	2	-68.18	2	25.45	2.35	38.79
48	49	56.85	-950.13	-144.30	-162.71	0	-785.47	2	-300.60	2	-5.36	2.35	-8.40
49	49	56.85	-950.13	-144.30	-162.71	0	-772.17	2	-350.90	2	6.12	2.35	8.85
49	50	58.30	-950.13	-145.86	45.87	0	-597.55	2	-557.43	2	-24.47	2.35	-38.02
50	50	58.30	-1313.90	-171.03	-191.60	0	-1075.22	2	-383.08	2	-24.69	2.35	-38.24
50	51	59.75	-1313.98	-146.43	38.88	0	-878.35	2	-626.60	2	-55.30	2.35	-85.20
51	51	59.75	-1313.98	-146.43	38.88	0	-1022.17	2	-689.92	2	-37.38	2.35	-64.61
51	52	61.20	-1314.04	-121.82	233.67	0	-846.93	2	-926.94	2	-55.06	2.35	-94.55
52	52	61.20	-1314.57	-96.66	233.55	0	-847.68	2	-927.30	2	-54.91	2.35	-94.41
52	53	62.65	-1314.57	-72.05	355.86	0	-742.80	2	-1052.91	2	-68.57	2.35	-117.53
53	53	62.65	-1314.57	-72.05	355.86	0	-742.80	2	-1052.91	2	-68.57	2.35	-117.53
53	54	64.10	-1314.57	-47.45	442.49	0	-668.39	2	-1142.43	2	-78.18	2.35	-133.79
54	54	64.10	-1314.57	-47.45	442.49	0	-668.39	2	-1142.43	2	-78.18	2.35	-133.79
54	55	65.55	-1314.57	-22.83	493.46	0	-624.43	2	-1195.93	2	-83.74	2.35	-143.20
55	55	65.55	-1314.57	-22.83	493.46	0	-624.43	2	-1195.93	2	-83.74	2.35	-143.20
55	56	67.00	-1314.57	1.77	508.75	0	-610.93	2	-1213.36	2	-85.24	2.35	-145.75
56	56	67.00	-1314.57	1.77	508.75	0	-610.93	2	-1213.36	2	-85.24	2.35	-145.75
56	57	68.45	-1314.57	26.36	488.36	0	-627.90	2	-1194.72	2	-82.69	2.35	-141.44
57	57	68.45	-1314.57	26.36	488.36	0	-627.90	2	-1194.72	2	-82.69	2.35	-141.44
57	58	69.90	-1314.57	50.96	432.29	0	-675.32	2	-1140.02	2	-76.08	2.35	-130.27
58	58	69.90	-1314.57	50.96	432.29	0	-675.32	2	-1140.02	2	-76.08	2.35	-130.27
58	59	71.35	-1314.57	75.57	340.56	0	-753.20	2	-1049.28	2	-65.43	2.35	-112.25
59	59	71.35	-1314.57	75.57	340.56	0	-753.20	2	-1049.28	2	-65.43	2.35	-112.25
59	60	72.80	-1314.57	100.17	213.13	0	-861.55	2	-922.46	2	-50.71	2.35	-87.37
60	60	72.80	-1314.07	125.33	213.26	0	-860.81	2	-922.12	2	-50.87	2.35	-87.52
60	61	74.25	-1314.02	149.94	13.37	0	-1039.51	2	-683.89	2	-32.14	2.35	-55.83
61	61	74.25	-1314.02	149.94	13.37	0	-895.24	2	-618.27	2	-48.07	2.35	-74.13
61	62	75.70	-1313.93	174.54	-222.21	0	-1095.49	2	-373.08	2	-16.00	2.35	-24.96
62	62	75.70	-950.17	149.39	15.25	0	-617.83	2	-547.44	2	-15.79	2.35	-24.75
62	63	77.15	-950.17	146.91	-189.21	0	-789.75	2	-342.18	2	13.69	2.35	20.42
63	63	77.15	-950.17	146.91	-189.21	0	-803.74	2	-289.32	2	1.64	2.35	2.30
63	64	78.60	-951.11	167.71	-417.37	0	-997.66	2	-55.29	2	33.44	2.35	51.01
64	64	78.60	-512.85	167.81	-120.00	0	-410.24	2	-284.40	2	33.44	2.35	51.01
64	65	80.05	-512.85	188.63	-378.40	0	-629.22	2	-18.50	2	69.42	2.35	106.12
65	65	80.05	-512.85	188.63	-378.40	0	-629.22	2	-18.50	2	69.42	2.35	106.12
65	66	80.50	-512.85	195.07	-464.73	0	-702.39	2	70.37	2	81.43	2.35	124.52
66	66	80.50	-801.66	195.07	176.41	0	-228.08	2	-1215.77	2	81.43	2.35	124.52
66	67	81.50	-801.66	214.86	-28.56	0	-402.30	2	-1002.88	2	109.57	2.35	167.62
67	1067	81.50	-801.66	-229.68	-28.56	0	-402.30	2	-1002.88	2	109.57	2.35	167.62
67	68	82.50	-801.66	-209.89	191.22	0	-214.95	2	-1233.21	2	79.82	2.35	122.05
68	68	82.50	-585.73	-209.89	-500.93	0	-788.56	2	93.72	2	79.82	2.35	122.05
68	69	83.08	-585.73	-201.64	-382.62	0	-687.95	2	-29.34	2	63.62	2.35	97.23
69	69	83.08	-585.73	-201.64	-382.62	0	-687.95	2	-29.34	2	63.62	2.35	97.23
69	70	84.65	-585.73	-179.05	-82.86	0	-433.00	2	-341.26	2	22.58	2.35	34.38
70	70	84.65	-1096.87	-178.95	-429.79	0	-1118.21	2	-73.85	2	22.58	2.35	34.38
70	71	86.23	-1095.94	-156.35	-165.66	0	-892.90	2	-348.33	2	-13.53	2.35	-20.93
71	71	86.23	-1095.94	-156.35	-165.66	0	-880.68	2	-394.50	2	-3.00	2.35	-5.11
71	72	87.80	-1095.94	-157.97	94.81	0	-665.16	2	-642.76	2	-43.09	2.35	-66.56
72	72	87.80	-1605.43	-186.28	-237.69	0	-1334.22	2	-398.83	2	-43.30	2.35	-66.77
72	73	89.38	-1605.51	-159.55	35.02	0	-1100.83	2	-688.53	2	-79.22	2.35	-121.86
73	73	89.38	-1605.51	-159.55	35.02	0	-1278.88	2	-745.24	2	-54.41	2.35	-93.40
73	74	90.95	-1605.55	-132.82	265.65	0	-1070.93	2	-1027.87	2	-75.14	2.35	-128.50
74	74	90.95	-1606.11	-104.53	265.52	0	-1071.70	2	-1028.22	2	-75.00	2.35	-128.36
74	75	92.53	-1606.11	-77.80	409.09	0	-948.46	2	-1176.26	2	-90.99	2.35	-155.41
75	75	92.53	-1606.11	-77.80	409.09	0	-948.46	2	-1176.26	2	-90.99	2.35	-155.41
75	76	94.10	-1606.11	-51.07	510.59	0	-861.14	2	-1281.76	2	-102.20	2.35	-174.38
76	76	94.10	-1606.11	-51.07	510.59	0	-861.14	2	-1281.76	2	-102.20	2.35	-174.38
76	77	95.68	-1606.11	-24.35	569.96	0	-809.79	2	-1344.70	2	-108.62	2.35	-185.24

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.To.MZ+

Cuasi-Permanentes con gradiente

]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD

Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1606.11	-24.35	569.96	0	-809.79	2	-1344.70	2	-108.62	2.35	-185.24
77	78	97.25	-1606.11	2.37	587.24	0	-794.38	2	-1365.10	2	-110.26	2.35	-188.02
78	78	97.25	-1606.11	2.37	587.24	0	-794.38	2	-1365.10	2	-110.26	2.35	-188.02
78	79	98.83	-1606.11	29.10	562.47	0	-814.87	2	-1342.98	2	-107.13	2.35	-182.71
79	79	98.83	-1606.11	29.10	562.47	0	-814.87	2	-1342.98	2	-107.13	2.35	-182.71
79	80	100.40	-1606.11	55.81	495.58	0	-871.32	2	-1278.31	2	-99.20	2.35	-169.31
80	80	100.40	-1606.11	55.81	495.58	0	-871.32	2	-1278.31	2	-99.20	2.35	-169.31
80	81	101.98	-1606.11	82.54	386.60	0	-963.70	2	-1171.09	2	-86.50	2.35	-147.81
81	81	101.98	-1606.11	82.54	386.60	0	-963.70	2	-1171.09	2	-86.50	2.35	-147.81
81	82	103.55	-1606.11	109.28	235.54	0	-1092.02	2	-1021.32	2	-69.01	2.35	-118.25
82	82	103.55	-1605.60	137.57	235.68	0	-1091.27	2	-1020.99	2	-69.17	2.35	-118.39
82	83	105.13	-1605.54	164.28	-2.43	0	-1304.29	2	-736.64	2	-46.94	2.35	-80.76
83	83	105.13	-1605.54	164.28	-2.43	0	-1125.60	2	-676.43	2	-68.71	2.35	-105.75
83	84	106.70	-1605.45	191.03	-282.65	0	-1363.95	2	-384.29	2	-30.68	2.35	-47.42
84	84	106.70	-1095.90	162.74	49.85	0	-694.88	2	-628.21	2	-30.45	2.35	-47.20
84	85	108.28	-1095.90	159.97	-205.46	0	-907.00	2	-381.57	2	8.23	2.35	12.09
85	85	108.28	-1095.90	159.97	-205.46	0	-918.78	2	-337.02	2	-1.94	2.35	-3.19
85	86	109.85	-1096.84	182.56	-475.27	0	-1147.78	2	-60.95	2	35.83	2.35	54.65
86	86	109.85	-585.73	182.64	-128.34	0	-462.58	2	-328.37	2	35.83	2.35	54.65
86	87	111.43	-585.73	205.25	-433.79	0	-721.24	2	-14.83	2	78.52	2.35	120.04
87	87	111.43	-585.73	205.25	-433.79	0	-721.24	2	-14.83	2	78.52	2.35	120.04
87	88	112.00	-585.73	213.48	-554.21	0	-823.22	2	108.84	2	95.33	2.35	145.80
88	88	112.00	-801.66	213.48	137.94	0	-249.61	2	-1218.08	2	95.33	2.35	145.80
88	89	113.00	-801.66	233.28	-85.41	0	-439.29	2	-986.77	2	126.14	2.35	192.97
89	1089	113.00	-801.66	-233.73	-85.41	0	-439.29	2	-986.77	2	126.14	2.35	192.97
89	90	114.00	-801.66	-213.93	138.43	0	-249.38	2	-1217.92	2	95.14	2.35	145.49
90	90	114.00	-585.73	-213.93	-553.73	0	-822.99	2	109.01	2	95.14	2.35	145.49
90	91	114.58	-585.73	-205.69	-433.10	0	-720.93	2	-14.50	2	78.22	2.35	119.58
91	91	114.58	-585.73	-205.69	-433.10	0	-720.93	2	-14.50	2	78.22	2.35	119.58
91	92	116.15	-585.73	-183.08	-126.93	0	-481.94	2	-327.73	2	35.22	2.35	53.72
92	92	116.15	-1096.79	-183.00	-473.86	0	-1147.11	2	-60.28	2	35.22	2.35	53.72
92	93	117.73	-1095.86	-160.41	-203.35	0	-917.79	2	-336.04	2	-2.85	2.35	-4.59
93	93	117.73	-1095.86	-160.41	-203.35	0	-905.60	2	-382.19	2	7.70	2.35	11.25
93	94	119.30	-1095.86	-163.25	53.13	0	-692.71	2	-629.19	2	-31.30	2.35	-48.52
94	94	119.30	-1605.46	-191.55	-279.37	0	-1361.80	2	-385.29	2	-31.54	2.35	-48.76
94	95	120.88	-1605.55	-164.80	1.66	0	-1122.92	2	-677.67	2	-69.79	2.35	-107.42
95	95	120.88	-1605.55	-164.80	1.66	0	-1301.55	2	-737.41	2	-47.61	2.35	-81.96
95	96	122.45	-1605.61	-138.08	240.63	0	-1087.95	2	-1021.94	2	-69.98	2.35	-119.85
96	96	122.45	-1606.11	-109.79	240.50	0	-1088.70	2	-1022.27	2	-69.82	2.35	-119.69
96	97	124.03	-1606.11	-83.06	392.39	0	-959.82	2	-1172.20	2	-87.44	2.35	-149.51
97	97	124.03	-1606.11	-83.06	392.39	0	-959.82	2	-1172.20	2	-87.44	2.35	-149.51
97	98	125.60	-1606.11	-56.33	502.16	0	-866.91	2	-1279.55	2	-100.28	2.35	-171.24
98	98	125.60	-1606.11	-56.33	502.16	0	-866.91	2	-1279.55	2	-100.28	2.35	-171.24
98	99	127.18	-1606.11	-29.62	569.90	0	-809.89	2	-1344.41	2	-108.34	2.35	-184.89
99	99	127.18	-1606.11	-29.62	569.90	0	-809.89	2	-1344.41	2	-108.34	2.35	-184.89
99	100	128.75	-1606.11	-2.89	595.51	0	-788.83	2	-1366.69	2	-111.61	2.35	-190.44
100	100	128.75	-1606.11	-2.89	595.51	0	-788.83	2	-1366.69	2	-111.61	2.35	-190.44
100	101	130.33	-1606.11	23.84	579.04	0	-803.70	2	-1346.45	2	-110.10	2.35	-187.91
101	101	130.33	-1606.11	23.84	579.04	0	-803.70	2	-1346.45	2	-110.10	2.35	-187.91
101	102	131.90	-1606.11	50.55	520.46	0	-854.53	2	-1283.62	2	-103.81	2.35	-177.28
102	102	131.90	-1606.11	50.55	520.46	0	-854.53	2	-1283.62	2	-103.81	2.35	-177.28
102	103	133.48	-1606.11	77.28	419.80	0	-941.28	2	-1178.28	2	-92.74	2.35	-158.56
103	103	133.48	-1606.11	77.28	419.80	0	-941.28	2	-1178.28	2	-92.74	2.35	-158.56
103	104	135.05	-1606.11	104.01	277.05	0	-1063.97	2	-1030.41	2	-76.88	2.35	-131.75
104	104	135.05	-1605.55	132.30	277.19	0	-1063.20	2	-1030.06	2	-77.02	2.35	-131.89
104	105	136.63	-1605.48	159.03	47.36	0	-1270.60	2	-747.55	2	-56.42	2.35	-97.02
105	105	136.63	-1605.48	159.03	47.36	0	-1092.73	2	-692.24	2	-82.45	2.35	-126.88
105	106	138.20	-1605.42	185.76	-224.54	0	-1325.59	2	-402.79	2	-46.74	2.35	-72.13
106	106	138.20	-1095.98	157.46	107.96	0	-656.55	2	-646.74	2	-46.55	2.35	-71.93
106	107	139.78	-1095.98	155.91	-153.74	0	-872.89	2	-398.07	2	-6.10	2.35	-9.94
107	107	139.78	-1095.98	155.91	-153.74	0	-887.52	2	-342.85	2	-18.69	2.35	-28.86
107	108	141.35	-1096.92	178.51	-417.17	0	-1112.51	2	-68.06	2	17.12	2.35	25.98
108	108	141.35	-585.73	178.60	-70.24	0	-427.26	2	-335.43	2	17.12	2.35	25.98
108	109	142.93	-585.73	201.20	-369.32	0	-681.91	2	-23.16	2	57.85	2.35	88.37
109	109	142.93	-585.73	201.20	-369.32	0	-681.91	2	-23.16	2	57.85	2.35	88.37
109	110	143.50	-585.73	209.45	-487.40	0	-782.43	2	100.04	2	73.95	2.35	113.02
110	110	143.50	-801.66	209.45	204.76	0	-208.82	2	-1226.89	2	73.95	2.35	113.02
110	111	144.50	-801.66	229.23	-14.55	0	-395.95	2	-996.39	2	103.51	2.35	158.30
111	1111	144.50	-801.66	-192.88	-14.55	0	-395.95	2	-996.39	2	103.51	2.35	158.30
111	112	145.50	-801.66	-173.09	168.45	0	-242.46	2	-1178.66	2	76.76	2.35	117.35
1	112	145.50	-476.41	-173.09	-447.18	0	-667.12	2	87.10	2	76.76	2.35	117.35
112	113	145.68	-476.41	-170.58	-417.15	0	-642.04	2	57.58	2	72.29	2.35	110.50
113	113	145.68	-476.41	-170.58	-417.15	0	-642.04	2	57.58	2	72.29	2.35	110.50
113	114	146.85	-476.41	-153.73	-226.62	0	-483.05	2	-129.08	2	43.82	2.35	66.90
114	114	146.85	-878.82	-153.53	-499.20	0	-1021.95	2	80.49	2	43.82	2.35	66.90
114	115	148.03	-877.89	-136.66	-328.56	0	-879.26	2	-84.98	2	18.08	2.35	27.49

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.To.MZ+

C. Cuasi-Permanentes con gradiente

]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD

Coef exc:

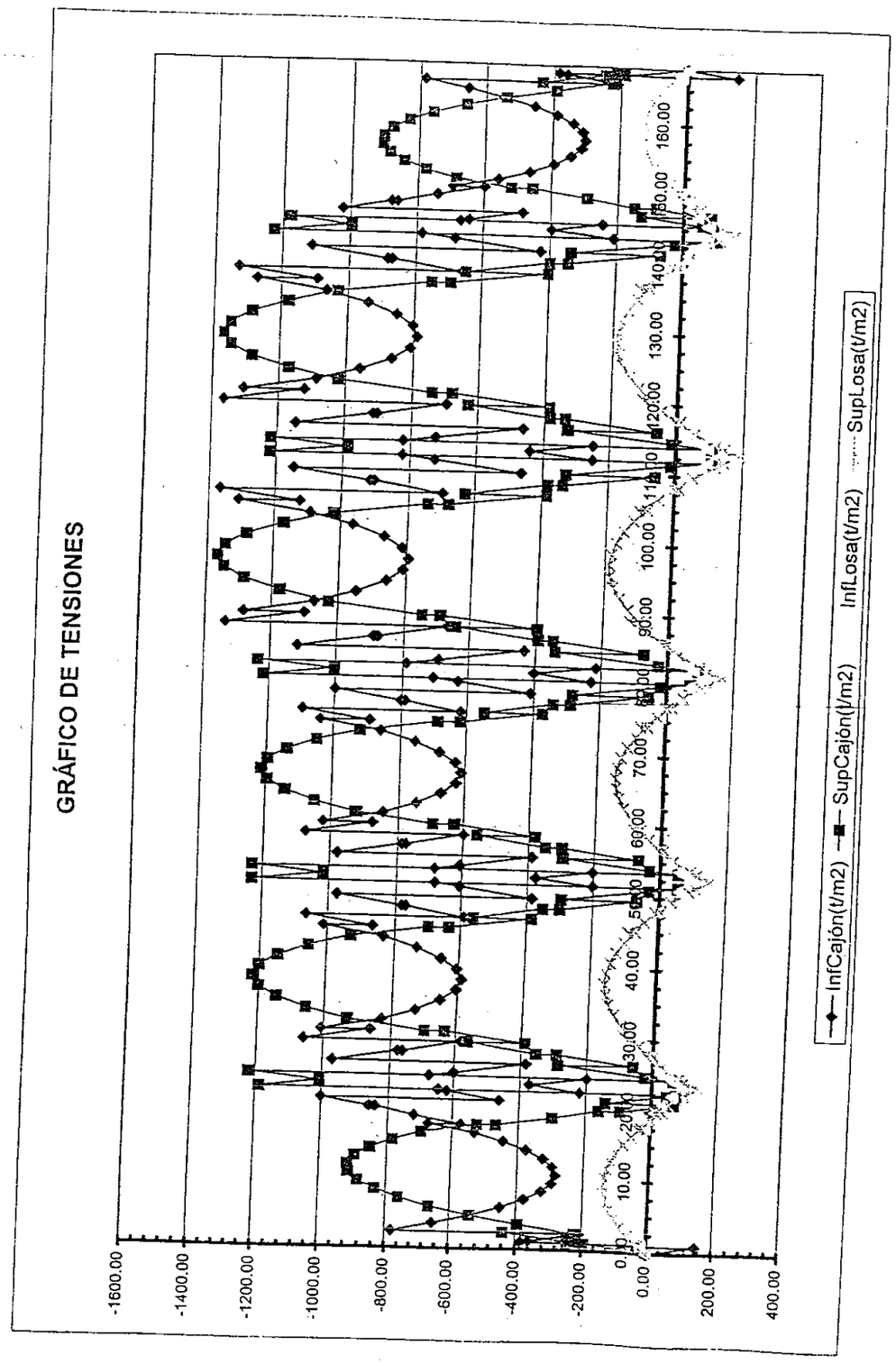
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.89	-136.66	-328.56	0	-861.70	2	-150.48	2	32.87	2.35	49.82
115	116	149.20	-877.89	-119.79	-177.78	0	-737.50	2	-292.12	2	9.00	2.35	13.29
116	116	149.20	-876.56	-140.60	-177.66	0	-736.44	2	-291.40	2	8.98	2.35	13.27
116	117	150.38	-876.95	-146.39	-13.98	0	-598.58	2	-457.51	2	-14.47	2.35	-22.59
117	117	150.38	-876.95	-146.39	-13.98	0	-693.74	2	-518.83	2	-8.23	2.35	-15.37
117	118	151.55	-877.03	-126.45	146.53	0	-556.01	2	-684.71	2	-26.30	2.35	-45.85
118	118	151.55	-877.27	-105.75	146.42	0	-556.66	2	-685.00	2	-26.06	2.35	-45.61
118	119	152.73	-877.27	-85.80	258.94	0	-465.51	2	-776.89	2	-41.50	2.35	-71.62
119	119	152.73	-877.27	-85.80	258.94	0	-465.51	2	-776.89	2	-41.50	2.35	-71.62
119	120	153.90	-877.27	-65.86	348.04	0	-394.37	2	-845.10	2	-54.28	2.35	-93.13
120	120	153.90	-877.27	-65.86	348.04	0	-394.37	2	-845.10	2	-54.28	2.35	-93.13
120	121	155.08	-877.27	-45.92	413.73	0	-343.22	2	-889.61	2	-64.40	2.35	-110.14
121	121	155.08	-877.27	-45.92	413.73	0	-343.22	2	-889.61	2	-64.40	2.35	-110.14
121	122	156.25	-877.27	-25.99	455.95	0	-312.10	2	-910.44	2	-71.85	2.35	-122.64
122	122	156.25	-877.27	-25.99	455.95	0	-312.10	2	-910.44	2	-71.85	2.35	-122.64
122	123	157.43	-877.27	-6.05	474.78	0	-300.96	2	-907.62	2	-76.65	2.35	-130.64
123	123	157.43	-877.27	-6.05	474.78	0	-300.96	2	-907.62	2	-76.65	2.35	-130.64
123	124	158.60	-877.27	13.88	470.17	0	-309.82	2	-881.12	2	-78.78	2.35	-134.14
124	124	158.60	-877.27	13.88	470.17	0	-309.82	2	-881.12	2	-78.78	2.35	-134.14
124	125	159.78	-877.27	33.81	442.14	0	-338.68	2	-830.92	2	-78.25	2.35	-133.14
125	125	159.78	-877.27	33.81	442.14	0	-338.68	2	-830.92	2	-78.25	2.35	-133.14
125	126	160.95	-877.27	53.75	390.66	0	-387.56	2	-757.06	2	-75.05	2.35	-127.62
126	126	160.95	-877.27	53.75	390.66	0	-387.56	2	-757.06	2	-75.05	2.35	-127.62
126	127	162.13	-877.27	73.70	315.79	0	-456.42	2	-659.52	2	-69.20	2.35	-117.61
127	127	162.13	-877.27	73.70	315.79	0	-456.42	2	-659.52	2	-69.20	2.35	-117.61
127	128	163.30	-877.27	93.64	217.47	0	-545.29	2	-538.29	2	-60.69	2.35	-103.10
128	128	163.30	-877.27	93.64	217.47	0	-545.29	2	-538.29	2	-60.69	2.35	-103.10
128	129	164.48	-877.27	113.57	95.73	0	-654.15	2	-393.42	2	-49.51	2.35	-84.08
129	129	164.48	-877.27	113.57	95.73	0	-654.15	2	-393.42	2	-49.51	2.35	-84.08
129	130	165.65	-877.27	133.52	-49.44	0	-783.03	2	-224.82	2	-35.67	2.35	-60.55
130	130	165.65	-476.41	133.52	200.69	0	-211.84	2	-436.96	2	-35.67	2.35	-60.55
130	131	166.83	-476.41	153.46	32.11	0	-360.70	2	-244.73	2	-19.16	2.35	-32.53
131	131	166.83	-476.41	153.46	32.11	0	-360.70	2	-244.73	2	-19.16	2.35	-32.53
131	132	167.00	-476.41	156.42	4.96	0	-384.62	2	-214.02	2	-16.47	2.35	-27.96
132	132	167.00	0.00	156.42	168.23	0	148.62	2	-192.11	2	-16.47	2.35	-27.96
132	133	168.00	0.00	152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.To.MZ-
C. Cuasi-Permanentes con gradiente

1: 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4 ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [1; .5]GRAD
:osf exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00								
1	2	1.00	0.00	-131.86	142.41	0	0.00	2	0.00	2	0.00	2.35	0.00
2	2	1.00	-526.55	-131.86	-38.05	0	131.15	2	-186.38	2	-11.46	2.35	-19.41
2	3	1.18	-526.55	-129.37	-15.20	0	-458.21	2	-210.60	2	-11.46	2.35	-19.41
3	3	1.18	-526.55	-129.37	-15.20	0	-437.21	2	-240.31	2	-13.32	2.35	-22.56
3	4	2.35	-526.55	-112.51	126.89	0	-437.21	2	-240.31	2	-13.32	2.35	-22.56
4	4	2.35	-969.61	-112.51	-149.57	0	-306.28	2	-426.61	2	-24.68	2.35	-41.82
4	5	3.53	-969.61	-95.64	-27.28	0	-937.60	2	-192.15	2	-24.68	2.35	-41.82
5	5	3.53	-969.61	-95.64	-27.28	0	-824.20	2	-355.63	2	-34.08	2.35	-57.77
5	6	4.70	-969.61	-78.79	75.20	0	-824.20	2	-355.63	2	-34.08	2.35	-57.77
6	6	4.70	-969.61	-78.79	75.20	0	-728.38	2	-496.19	2	-41.51	2.35	-70.41
6	7	5.88	-969.61	-61.93	157.88	0	-728.38	2	-496.19	2	-41.51	2.35	-70.41
7	7	5.88	-969.61	-61.93	157.88	0	-650.08	2	-613.92	2	-46.99	2.35	-79.74
7	8	7.05	-969.61	-45.08	220.77	0	-650.08	2	-613.92	2	-46.99	2.35	-79.74
8	8	7.05	-969.61	-45.08	220.77	0	-589.34	2	-708.76	2	-50.50	2.35	-85.77
8	9	8.23	-969.61	-28.23	263.85	0	-589.34	2	-708.76	2	-50.50	2.35	-85.77
9	9	8.23	-969.61	-28.23	263.85	0	-546.15	2	-780.73	2	-52.05	2.35	-88.48
9	10	9.40	-969.61	-11.37	287.13	0	-546.15	2	-780.73	2	-52.05	2.35	-88.48
10	10	9.40	-969.61	-11.37	287.13	0	-520.51	2	-829.85	2	-51.64	2.35	-87.89
10	11	10.58	-969.61	5.47	290.58	0	-520.51	2	-829.85	2	-51.64	2.35	-87.89
11	11	10.58	-969.61	5.47	290.58	0	-512.43	2	-856.07	2	-49.26	2.35	-83.99
11	12	11.75	-969.61	22.35	274.24	0	-512.43	2	-856.07	2	-49.26	2.35	-83.99
12	12	11.75	-969.61	22.35	274.24	0	-521.90	2	-859.42	2	-44.92	2.35	-76.78
12	13	12.93	-969.61	39.19	238.10	0	-521.90	2	-859.42	2	-44.92	2.35	-76.78
13	13	12.93	-969.61	39.19	238.10	0	-548.91	2	-839.91	2	-38.63	2.35	-66.26
13	14	14.10	-969.61	56.05	182.15	0	-548.91	2	-839.91	2	-38.63	2.35	-66.26
14	14	14.10	-969.61	56.05	182.15	0	-593.48	2	-797.54	2	-30.36	2.35	-52.43
14	15	15.28	-969.61	72.90	106.40	0	-593.48	2	-797.54	2	-30.36	2.35	-52.43
15	15	15.28	-969.61	72.90	106.40	0	-655.60	2	-732.27	2	-20.14	2.35	-35.30
15	16	16.45	-969.61	89.76	10.82	0	-655.60	2	-732.27	2	-20.14	2.35	-35.30
16	16	16.45	-969.14	112.66	10.95	0	-735.28	2	-644.13	2	-7.95	2.35	-14.85
16	17	17.63	-969.04	129.52	-131.56	0	-734.53	2	-643.78	2	-8.14	2.35	-15.04
17	17	17.63	-969.04	129.52	-131.56	0	-861.13	2	-477.16	2	5.98	2.35	8.68
17	18	18.80	-969.23	171.63	-305.12	0	-752.46	2	-414.56	2	5.60	2.35	8.16
18	18	18.80	-970.37	148.65	-305.26	0	-897.98	2	-241.84	2	30.93	2.35	46.99
18	19	19.98	-970.37	168.59	-491.73	0	-899.01	2	-242.49	2	31.00	2.35	47.06
19	19	19.98	-970.37	168.59	-491.73	0	-1046.79	2	-89.44	2	64.79	2.35	98.82
19	20	21.15	-971.31	188.51	-701.68	0	-1068.22	2	-9.48	2	46.73	2.35	71.57
20	20	21.15	-526.55	188.73	-400.41	0	-1237.10	2	169.40	2	83.19	2.35	127.46
20	21	22.33	-526.55	208.67	-633.90	0	-641.49	2	-62.24	2	83.19	2.35	127.46
21	21	22.33	-526.55	208.67	-633.90	0	-829.07	2	139.02	2	123.41	2.35	189.10
21	22	22.50	-526.55	211.64	-670.68	0	-829.07	2	139.02	2	123.41	2.35	189.10
22	22	22.50	-655.90	211.64	-112.45	0	-858.65	2	170.85	2	129.71	2.35	198.77
22	23	23.50	-655.90	234.04	-335.28	0	-367.26	2	-870.57	2	129.71	2.35	198.77
23	1023	23.50	-655.90	-252.06	-335.28	0	-547.24	2	-674.85	2	167.35	2.35	256.47
23	24	24.50	-655.90	-229.66	-94.42	0	-547.24	2	-674.85	2	167.35	2.35	256.47
24	24	24.50	-566.83	-229.66	-680.84	0	-349.17	2	-899.76	2	129.37	2.35	198.24
24	25	24.95	-566.83	-222.03	-579.22	0	-895.44	2	164.20	2	129.37	2.35	198.24
25	25	24.95	-566.83	-222.03	-579.22	0	-812.11	2	70.21	2	113.16	2.35	173.40
25	26	26.40	-566.83	-197.43	-275.13	0	-812.11	2	70.21	2	113.16	2.35	173.40
26	26	26.40	-1051.20	-197.30	-603.80	0	-562.75	2	-211.07	2	64.67	2.35	99.06
26	27	27.85	-1050.27	-172.70	-335.48	0	-1211.99	2	42.17	2	64.67	2.35	99.06
27	27	27.85	-1050.27	-172.70	-335.48	0	-991.35	2	-205.46	2	21.89	2.35	33.47
27	28	29.30	-1050.27	-125.30	-120.34	0	-970.60	2	-283.75	2	39.73	2.35	60.29
28	28	29.30	-1452.04	-153.11	-382.80	0	-791.64	2	-492.43	2	7.27	2.35	10.57
28	29	30.75	-1452.17	-132.30	-175.52	0	-1319.54	2	-299.67	2	7.15	2.35	10.45
29	29	30.75	-1452.17	-132.30	-175.52	0	-1136.55	2	-541.26	2	-16.01	2.35	-25.03
29	30	32.20	-1452.26	-111.50	1.60	0	-1301.55	2	-607.27	2	-9.25	2.35	-17.21
30	30	32.20	-1452.95	-83.70	1.46	0	-1136.68	2	-847.53	2	-22.86	2.35	-40.15
30	31	33.65	-1452.95	-62.89	107.75	0	-1137.50	2	-847.92	2	-22.74	2.35	-40.04
31	31	33.65	-1452.95	-62.89	107.75	0	-1043.45	2	-970.06	2	-33.39	2.35	-57.97
31	32	35.10	-1452.95	-42.10	183.86	0	-1043.45	2	-970.06	2	-33.39	2.35	-57.97
32	32	35.10	-1452.95	-42.10	183.86	0	-976.14	2	-1057.34	2	-41.05	2.35	-70.86
32	33	36.55	-1452.95	-21.29	229.80	0	-976.14	2	-1057.34	2	-41.05	2.35	-70.86
33	33	36.55	-1452.95	-21.29	229.80	0	-935.56	2	-1109.80	2	-45.71	2.35	-78.70
33	34	38.00	-1452.95	-0.50	245.61	0	-935.56	2	-1109.80	2	-45.71	2.35	-78.70
34	34	38.00	-1452.95	-0.50	245.61	0	-921.69	2	-1127.45	2	-47.40	2.35	-81.52
34	35	39.45	-1452.95	20.31	231.24	0	-921.69	2	-1127.45	2	-47.40	2.35	-81.52
35	35	39.45	-1452.95	20.31	231.24	0	-934.57	2	-1110.24	2	-46.09	2.35	-79.30
35	36	40.90	-1452.95	41.12	186.72	0	-934.57	2	-1110.24	2	-46.09	2.35	-79.30
36	36	40.90	-1452.95	41.12	186.72	0	-974.16	2	-1058.20	2	-41.80	2.35	-72.04
36	37	42.35	-1452.95	61.91	112.03	0	-974.16	2	-1058.20	2	-41.80	2.35	-72.04
37	37	42.35	-1452.95	61.91	112.03	0	-1040.49	2	-971.35	2	-34.51	2.35	-59.74
37	38	43.80	-1452.95	82.72	7.19	0	-1040.49	2	-971.35	2	-34.51	2.35	-59.74
38	38	43.80	-1452.26	110.52	7.32	0	-1133.54	2	-849.65	2	-24.24	2.35	-42.40
38	39	45.25	-1452.17	131.32	-168.36	0	-1132.72	2	-849.26	2	-24.36	2.35	-42.51
						0	-1296.60	2	-609.43	2	-11.12	2.35	-20.17



CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.To.MZ-

Cuasi-Permanentes con gradiente

Pvigas + [.95: 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [9: 1.1]fase4.ISO.To + [9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: .5]GRAD

Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1452.17	131.32	-168.36	0	-1131.75	2	-543.83	2	-18.25	2.35	-28.3
39	40	46.70	-1452.04	152.13	-374.20	0	-1313.78	2	-302.77	2	4.46	2.35	6.4
40	40	46.70	-1050.07	124.34	-111.74	0	-765.80	2	-495.46	2	4.65	2.35	6.5
40	41	48.15	-1050.07	171.78	-325.83	0	-964.06	2	-287.17	2	36.76	2.35	55.8
41	41	48.15	-1050.07	171.78	-325.83	0	-981.25	2	-222.07	2	21.88	2.35	33.4
41	42	49.60	-1051.01	196.40	-592.77	0	-1200.46	2	23.16	2	64.66	2.35	99.0
42	42	49.60	-566.83	196.48	-264.10	0	-551.35	2	-230.20	2	64.66	2.35	99.0
42	43	51.05	-566.83	221.07	-566.80	0	-799.27	2	48.68	2	113.15	2.35	173.3
43	43	51.05	-566.83	221.07	-566.80	0	-799.27	2	48.68	2	113.15	2.35	173.3
43	44	51.50	-566.83	228.71	-668.00	0	-882.17	2	741.94	2	129.35	2.35	198.2
44	44	51.50	-655.90	228.71	-81.58	0	-335.90	2	-922.01	2	129.35	2.35	198.2
44	45	52.50	-655.90	251.10	-321.49	0	-532.99	2	-698.76	2	167.34	2.35	256.4
45	1045	52.50	-655.90	-249.73	-321.49	0	-532.99	2	-698.76	2	167.34	2.35	256.4
45	46	53.50	-655.90	-227.32	-82.97	0	-336.69	2	-922.09	2	129.85	2.35	198.9
46	46	53.50	-566.83	-227.32	-669.40	0	-882.95	2	-141.86	2	129.85	2.35	198.9
46	47	53.95	-566.83	-219.68	-568.81	0	-800.40	2	48.57	2	113.87	2.35	174.4
47	47	53.95	-566.83	-219.68	-568.81	0	-800.40	2	48.57	2	113.87	2.35	174.4
47	48	55.40	-566.83	-195.08	-268.13	0	-553.62	2	-230.40	2	66.10	2.35	101.2
48	48	55.40	-1051.08	-194.98	-596.80	0	-1202.77	2	22.91	2	66.10	2.35	101.2
48	49	56.85	-1050.15	-170.37	-331.87	0	-984.69	2	-222.44	2	24.03	2.35	36.7
49	49	56.85	-1050.15	-170.37	-331.87	0	-968.07	2	-285.30	2	38.38	2.35	58.3
49	50	58.30	-1050.15	-123.39	-117.06	0	-789.33	2	-493.83	2	6.06	2.35	8.7
50	50	58.30	-1452.04	-151.21	-379.52	0	-1317.28	2	-301.11	2	5.90	2.35	8.6
50	51	59.75	-1452.16	-130.41	-175.00	0	-1136.12	2	-541.76	2	-16.45	2.35	-25.6
51	51	59.75	-1452.16	-130.41	-175.00	0	-1301.06	2	-608.05	2	-9.92	2.35	-18.0
51	52	61.20	-1452.24	-109.60	-0.64	0	-1138.08	2	-847.59	2	-22.91	2.35	-40.0
52	52	61.20	-1452.95	-81.80	-0.77	0	-1138.90	2	-847.99	2	-22.80	2.35	-39.8
52	53	62.65	-1452.95	-60.99	102.75	0	-1046.74	2	-969.42	2	-32.84	2.35	-56.8
53	53	62.65	-1452.95	-60.99	102.75	0	-1046.74	2	-969.42	2	-32.84	2.35	-56.8
53	54	64.10	-1452.95	-40.19	176.09	0	-981.32	2	-1055.99	2	-39.88	2.35	-68.6
54	54	64.10	-1452.95	-40.19	176.09	0	-981.32	2	-1055.99	2	-39.88	2.35	-68.6
54	55	65.55	-1452.95	-19.38	219.30	0	-942.61	2	-1107.75	2	-43.93	2.35	-75.5
55	55	65.55	-1452.95	-19.38	219.30	0	-942.61	2	-1107.75	2	-43.93	2.35	-75.5
55	56	67.00	-1452.95	1.42	232.34	0	-930.63	2	-1124.69	2	-45.00	2.35	-77.3
56	56	67.00	-1452.95	1.42	232.34	0	-930.63	2	-1124.69	2	-45.00	2.35	-77.3
56	57	68.45	-1452.95	22.21	215.21	0	-945.39	2	-1106.77	2	-43.08	2.35	-74.1
57	57	68.45	-1452.95	22.21	215.21	0	-945.39	2	-1106.77	2	-43.08	2.35	-74.1
57	58	69.90	-1452.95	43.01	167.93	0	-986.87	2	-1054.02	2	-38.17	2.35	-65.8
58	58	69.90	-1452.95	43.01	167.93	0	-986.87	2	-1054.02	2	-38.17	2.35	-65.8
58	59	71.35	-1452.95	63.81	90.50	0	-1055.07	2	-966.47	2	-30.27	2.35	-52.5
59	59	71.35	-1452.95	63.81	90.50	0	-1055.07	2	-966.47	2	-30.27	2.35	-52.5
59	60	72.80	-1452.95	84.61	-17.12	0	-1150.02	2	-844.05	2	-19.38	2.35	-34.1
60	60	72.80	-1452.27	112.42	-16.98	0	-1149.20	2	-843.67	2	-19.50	2.35	-34.3
60	61	74.25	-1452.18	133.22	-195.42	0	-1314.96	2	-603.14	2	-5.66	2.35	-10.9
61	61	74.25	-1452.18	133.22	-195.42	0	-1149.66	2	-535.05	2	-10.62	2.35	-16.7
61	62	75.70	-1452.05	154.02	-404.03	0	-1333.52	2	-293.05	2	12.90	2.35	19.3
62	62	75.70	-1050.19	126.22	-141.57	0	-805.58	2	-485.78	2	13.05	2.35	19.4
62	63	77.15	-1050.19	174.09	-369.67	0	-993.11	2	-272.97	2	49.09	2.35	74.7
63	63	77.15	-1050.19	174.09	-369.67	0	-1010.50	2	-207.27	2	34.11	2.35	52.2
63	64	78.60	-1051.13	198.70	-640.00	0	-1232.26	2	40.25	2	77.61	2.35	118.8
64	64	78.60	-566.83	198.80	-311.33	0	-583.07	2	-213.04	2	77.61	2.35	118.8
64	65	80.05	-566.83	223.42	-617.41	0	-833.55	2	68.12	2	126.82	2.35	194.3
65	65	80.05	-566.83	223.42	-617.41	0	-833.55	2	68.12	2	126.82	2.35	194.3
65	66	80.50	-566.83	231.04	-719.65	0	-917.23	2	-162.08	2	143.25	2.35	219.5
66	66	80.50	-655.90	231.04	-133.24	0	-370.97	2	-901.87	2	143.25	2.35	219.5
66	67	81.50	-655.90	253.45	-375.50	0	-569.81	2	-677.05	2	181.73	2.35	278.5
67	1067	81.50	-655.90	-270.68	-375.50	0	-569.81	2	-677.05	2	181.73	2.35	278.5
67	68	82.50	-655.90	-248.27	-116.02	0	-356.23	2	-920.12	2	140.97	2.35	216.0
68	68	82.50	-647.39	-248.27	-758.83	0	-1012.25	2	-188.91	2	140.97	2.35	216.0
68	69	83.08	-647.39	-238.52	-618.87	0	-897.34	2	58.91	2	118.77	2.35	181.9
69	69	83.08	-647.39	-238.52	-618.87	0	-897.34	2	58.91	2	118.77	2.35	181.9
69	70	84.65	-647.39	-211.79	-264.29	0	-606.17	2	-270.61	2	62.54	2.35	95.7
70	70	84.65	-1212.23	-211.69	-647.74	0	-1363.45	2	25.00	2	62.54	2.35	95.7
70	71	86.23	-1211.30	-184.96	-335.29	0	-1106.23	2	-265.00	2	13.04	2.35	19.9
71	71	86.23	-1211.30	-184.96	-335.29	0	-1090.66	2	-323.81	2	26.45	2.35	40.0
71	72	87.80	-1211.30	-134.02	-97.02	0	-889.79	2	-564.99	2	-7.48	2.35	-11.9
72	72	87.80	-1774.25	-165.31	-464.52	0	-1629.26	2	-295.36	2	-7.63	2.35	-12.0
72	73	89.38	-1774.37	-142.71	-221.54	0	-1413.76	2	-582.19	2	-34.00	2.35	-52.5
73	73	89.38	-1774.37	-142.71	-221.54	0	-1617.67	2	-640.84	2	-22.52	2.35	-39.2
73	74	90.95	-1774.45	-120.11	-14.14	0	-1423.51	2	-926.94	2	-37.86	2.35	-65.1
74	74	90.95	-1775.17	-88.84	-14.29	0	-1424.35	2	-927.32	2	-37.76	2.35	-65.0
74	75	92.53	-1775.17	-66.24	107.84	0	-1315.62	2	-1070.60	2	-49.61	2.35	-85.0
75	75	92.53	-1775.17	-66.24	107.84	0	-1315.62	2	-1070.60	2	-49.61	2.35	-85.0
75	76	94.10	-1775.17	-43.64	194.38	0	-1238.42	2	-1172.78	2	-57.94	2.35	-99.1
76	76	94.10	-1775.17	-43.64	194.38	0	-1238.42	2	-1172.78	2	-57.94	2.35	-99.1
76	77	95.68	-1775.17	-21.06	245.33	0	-1192.77	2	-1233.85	2	-62.74	2.35	-107.1

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.To.MZ-

Cuasi-Permanentes con gradiente

1: 1]Pvigas + [.95: 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [9: 1.1]fase4.ISO.To + [9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: .5]GRAD

oef exc:

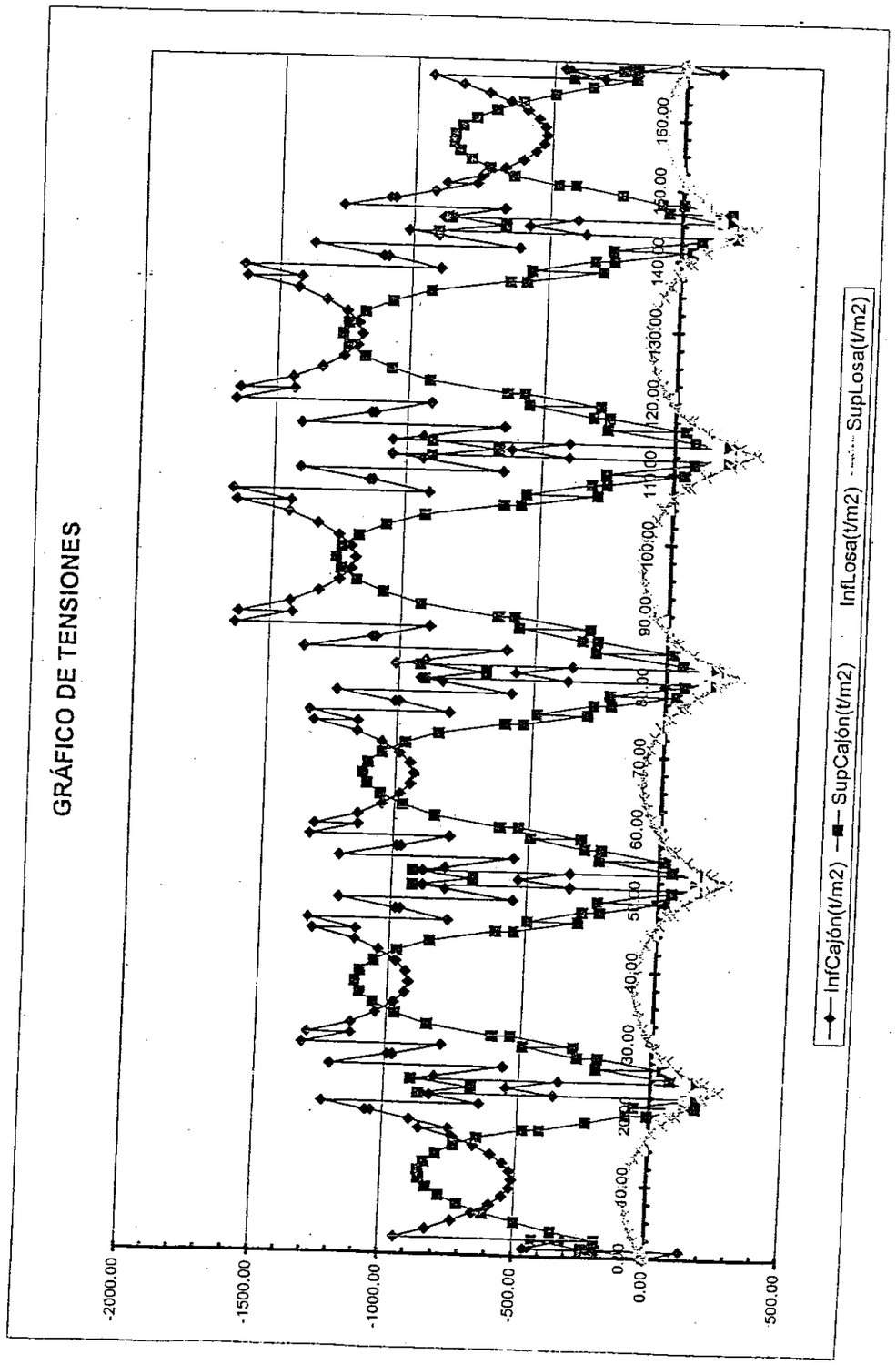
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1775.17	-21.06	245.33	0	-1192.77	2	-1233.85	2	-62.74	2.35	-107.19
77	78	97.25	-1775.17	1.53	260.67	0	-1178.67	2	-1253.82	2	-64.01	2.35	-109.33
78	78	97.25	-1775.17	1.53	260.67	0	-1178.67	2	-1253.82	2	-64.01	2.35	-109.33
78	79	98.83	-1775.17	24.13	240.47	0	-1196.07	2	-1232.72	2	-61.76	2.35	-105.54
79	79	98.83	-1775.17	24.13	240.47	0	-1196.07	2	-1232.72	2	-61.76	2.35	-105.54
79	80	100.40	-1775.17	46.71	184.68	0	-1245.01	2	-1170.53	2	-55.98	2.35	-95.80
80	80	100.40	-1775.17	46.71	184.68	0	-1245.01	2	-1170.53	2	-55.98	2.35	-95.80
80	81	101.98	-1775.17	69.31	93.28	0	-1325.50	2	-1067.22	2	-46.67	2.35	-80.11
81	81	101.98	-1775.17	69.31	93.28	0	-1325.50	2	-1067.22	2	-46.67	2.35	-80.11
81	82	103.55	-1775.17	91.91	-33.68	0	-1437.51	2	-922.82	2	-33.85	2.35	-58.48
82	82	103.55	-1774.48	123.18	-33.53	0	-1436.67	2	-922.44	2	-33.96	2.35	-58.60
82	83	105.13	-1774.40	145.77	-245.78	0	-1634.12	2	-635.22	2	-17.64	2.35	-31.06
83	83	105.13	-1774.40	145.77	-245.78	0	-1429.80	2	-574.34	2	-27.18	2.35	-42.04
83	84	106.70	-1774.27	168.38	-493.61	0	-1648.51	2	-285.92	2	0.57	2.35	0.47
84	84	106.70	-1211.26	137.11	-126.11	0	-909.02	2	-555.53	2	0.73	2.35	0.64
84	85	108.28	-1211.26	189.20	-381.89	0	-1121.45	2	-308.74	2	39.55	2.35	60.12
85	85	108.28	-1211.26	189.20	-381.89	0	-1136.26	2	-252.71	2	26.76	2.35	40.90
85	86	109.85	-1212.20	215.92	-700.99	0	-1397.78	2	39.02	2	78.22	2.35	119.79
86	86	109.85	-647.39	216.00	-317.54	0	-640.53	2	-256.62	2	78.22	2.35	119.79
86	87	111.43	-647.39	242.74	-678.79	0	-935.99	2	74.66	2	136.40	2.35	208.99
87	87	111.43	-647.39	242.74	-678.79	0	-935.99	2	74.66	2	136.40	2.35	208.99
87	88	112.00	-647.39	252.48	-821.20	0	-1052.49	2	205.33	2	159.33	2.35	244.13
88	88	112.00	-655.90	252.48	-178.39	0	-396.48	2	-903.70	2	159.33	2.35	244.13
88	89	113.00	-655.90	274.91	-442.06	0	-612.76	2	-659.56	2	201.33	2.35	308.52
89	1089	113.00	-655.90	-274.85	-442.06	0	-612.76	2	-659.56	2	201.33	2.35	308.52
89	90	114.00	-655.90	-252.42	-178.42	0	-396.61	2	-903.26	2	159.25	2.35	244.01
90	90	114.00	-647.39	-252.42	-821.23	0	-1052.63	2	205.77	2	159.25	2.35	244.01
90	91	114.58	-647.39	-242.67	-678.91	0	-936.27	2	75.43	2	136.29	2.35	208.82
91	91	114.58	-647.39	-242.67	-678.91	0	-936.27	2	75.43	2	136.29	2.35	208.82
91	92	116.15	-647.39	-215.93	-317.75	0	-641.04	2	-255.10	2	77.99	2.35	119.43
92	92	116.15	-1212.13	-215.85	-701.19	0	-1398.26	2	40.57	2	77.99	2.35	119.43
92	93	117.73	-1211.20	-189.13	-382.20	0	-1137.00	2	-250.41	2	26.42	2.35	40.38
93	93	117.73	-1211.20	-189.13	-382.20	0	-1121.65	2	-308.56	2	39.70	2.35	60.33
93	94	119.30	-1211.20	-136.96	-127.04	0	-909.63	2	-555.13	2	1.07	2.35	1.13
94	94	119.30	-1774.27	-168.23	-494.54	0	-1649.14	2	-285.55	2	0.89	2.35	0.95
94	95	120.88	-1774.40	-145.62	-246.95	0	-1430.60	2	-573.87	2	-26.77	2.35	-41.44
95	95	120.88	-1774.40	-145.62	-246.95	0	-1634.94	2	-634.77	2	-17.25	2.35	-30.48
95	96	122.45	-1774.49	-123.03	-34.90	0	-1437.64	2	-921.94	2	-33.51	2.35	-57.91
96	96	122.45	-1775.17	-91.76	-35.05	0	-1438.47	2	-922.31	2	-33.39	2.35	-57.79
96	97	124.03	-1775.17	-69.16	91.70	0	-1326.61	2	-1066.62	2	-46.14	2.35	-79.31
97	97	124.03	-1775.17	-69.16	91.70	0	-1326.61	2	-1066.62	2	-46.14	2.35	-79.31
97	98	125.60	-1775.17	-46.56	182.83	0	-1246.31	2	-1169.81	2	-55.36	2.35	-94.87
98	98	125.60	-1775.17	-46.56	182.83	0	-1246.31	2	-1169.81	2	-55.36	2.35	-94.87
98	99	127.18	-1775.17	-23.98	238.42	0	-1197.51	2	-1231.96	2	-61.06	2.35	-104.50
99	99	127.18	-1775.17	-23.98	238.42	0	-1197.51	2	-1231.96	2	-61.06	2.35	-104.50
99	100	128.75	-1775.17	-1.38	258.41	0	-1180.26	2	-1252.97	2	-63.24	2.35	-108.19
100	100	128.75	-1775.17	-1.38	258.41	0	-1180.26	2	-1252.97	2	-63.24	2.35	-108.19
100	101	130.33	-1775.17	21.21	242.82	0	-1194.54	2	-1232.91	2	-61.89	2.35	-105.92
101	101	130.33	-1775.17	21.21	242.82	0	-1194.54	2	-1232.91	2	-61.89	2.35	-105.92
101	102	131.90	-1775.17	43.79	191.62	0	-1240.38	2	-1171.72	2	-57.01	2.35	-97.71
102	102	131.90	-1775.17	43.79	191.62	0	-1240.38	2	-1171.72	2	-57.01	2.35	-97.71
102	103	133.48	-1775.17	66.39	104.85	0	-1317.73	2	-1069.45	2	-48.61	2.35	-83.57
103	103	133.48	-1775.17	66.39	104.85	0	-1317.73	2	-1069.45	2	-48.61	2.35	-83.57
103	104	135.05	-1775.17	88.99	-17.49	0	-1426.62	2	-926.10	2	-36.68	2.35	-63.47
104	104	135.05	-1774.45	120.26	-17.35	0	-1425.77	2	-925.72	2	-36.79	2.35	-63.57
104	105	136.63	-1774.35	142.86	-225.00	0	-1620.11	2	-639.50	2	-21.36	2.35	-37.56
105	105	136.63	-1774.35	142.86	-225.00	0	-1416.11	2	-580.79	2	-32.79	2.35	-50.71
105	106	138.20	-1774.25	165.46	-468.22	0	-1631.78	2	-293.87	2	-6.33	2.35	-10.18
106	106	138.20	-1211.36	134.17	-100.72	0	-892.33	2	-563.51	2	-6.20	2.35	-10.05
106	107	139.78	-1211.36	185.04	-337.12	0	-1091.97	2	-322.92	2	27.23	2.35	41.17
107	107	139.78	-1211.36	185.04	-337.12	0	-1110.73	2	-252.12	2	11.10	2.35	16.91
107	108	141.35	-1212.30	211.76	-649.67	0	-1368.22	2	38.62	2	60.48	2.35	92.62
108	108	141.35	-647.39	211.85	-266.23	0	-610.89	2	-256.94	2	60.48	2.35	92.62
108	109	142.93	-647.39	238.59	-620.94	0	-902.35	2	73.37	2	116.60	2.35	178.65
109	109	142.93	-647.39	238.59	-620.94	0	-902.35	2	73.37	2	116.60	2.35	178.65
109	110	143.50	-647.39	248.34	-760.96	0	-1017.37	2	203.67	2	138.76	2.35	212.63
110	110	143.50	-655.90	248.34	-118.15	0	-361.36	2	-905.36	2	138.76	2.35	212.63
110	111	144.50	-655.90	270.75	-377.67	0	-575.08	2	-661.84	2	179.44	2.35	274.99
111	1111	144.50	-655.90	-235.86	-377.67	0	-575.08	2	-661.84	2	179.44	2.35	274.99
111	112	145.50	-655.90	-213.45	-152.99	0	-393.88	2	-858.14	2	141.28	2.35	216.49
112	112	145.50	-526.55	-213.45	-711.22	0	-885.27	2	183.27	2	141.28	2.35	216.49
112	113	145.68	-526.55	-210.48	-674.17	0	-855.52	2	151.39	2	134.89	2.35	206.69
113	113	145.68	-526.55	-210.48	-674.17	0	-855.52	2	151.39	2	134.89	2.35	206.69
113	114	146.85	-526.55	-190.55	-438.57	0	-666.56	2	-50.51	2	94.07	2.35	144.13
114	114	146.85	-971.30	-190.33	-739.85	0	-1262.16	2	181.14	2	94.07	2.35	144.13
114	115	148.03	-970.37	-170.38	-527.75	0	-1091.88	2	1.59	2	57.00	2.35	87.30

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.To.MZ-
rasi-Permanentes con gradiente

[1; vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD
Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-970.37	-170.38	-527.75	0	-1070.61	2	-77.77	2	74.93	2.35	114.3
115	116	149.20	-970.37	-150.42	-339.16	0	-921.43	2	-231.51	2	40.54	2.35	61.6
116	116	149.20	-969.24	-173.43	-339.02	0	-920.40	2	-230.87	2	40.46	2.35	61.6
116	117	150.38	-969.06	-130.84	-154.92	0	-767.92	2	-406.96	2	12.20	2.35	18.2
117	117	150.38	-969.06	-130.84	-154.92	0	-876.99	2	-471.70	2	10.73	2.35	16.6
117	118	151.55	-969.17	-113.98	-10.85	0	-749.34	2	-638.68	2	-3.71	2.35	-7.5
118	118	151.55	-969.61	-91.09	-10.97	0	-750.07	2	-639.02	2	-3.52	2.35	-7.3
118	119	152.73	-969.61	-74.23	86.15	0	-669.34	2	-727.53	2	-16.02	2.35	-28.3
119	119	152.73	-969.61	-74.23	86.15	0	-669.34	2	-727.53	2	-16.02	2.35	-28.3
119	120	153.90	-969.61	-57.37	163.46	0	-606.17	2	-793.16	2	-26.56	2.35	-46.0
120	120	153.90	-969.61	-57.37	163.46	0	-606.17	2	-793.16	2	-26.56	2.35	-46.0
120	121	155.08	-969.61	-40.51	220.97	0	-560.54	2	-835.90	2	-35.14	2.35	-60.4
121	121	155.08	-969.61	-40.51	220.97	0	-560.54	2	-835.90	2	-35.14	2.35	-60.4
121	122	156.25	-969.61	-23.67	258.67	0	-532.47	2	-855.77	2	-41.76	2.35	-71.4
122	122	156.25	-969.61	-23.67	258.67	0	-532.47	2	-855.77	2	-41.76	2.35	-71.4
122	123	157.43	-969.61	-6.81	276.57	0	-521.94	2	-852.78	2	-46.41	2.35	-79.1
123	123	157.43	-969.61	-6.81	276.57	0	-521.94	2	-852.78	2	-46.41	2.35	-79.1
123	124	158.60	-969.61	10.04	274.66	0	-528.97	2	-826.92	2	-49.10	2.35	-83.6
124	124	158.60	-969.61	10.04	274.66	0	-528.97	2	-826.92	2	-49.10	2.35	-83.6
124	125	159.78	-969.61	26.89	252.95	0	-553.55	2	-778.18	2	-49.83	2.35	-84.7
125	125	159.78	-969.61	26.89	252.95	0	-553.55	2	-778.18	2	-49.83	2.35	-84.7
125	126	160.95	-969.61	43.75	211.42	0	-595.69	2	-706.57	2	-48.60	2.35	-82.5
126	126	160.95	-969.61	43.75	211.42	0	-595.69	2	-706.57	2	-48.60	2.35	-82.5
126	127	162.13	-969.61	60.61	150.11	0	-655.36	2	-612.10	2	-45.41	2.35	-77.0
127	127	162.13	-969.61	60.61	150.11	0	-655.36	2	-612.10	2	-45.41	2.35	-77.0
127	128	163.30	-969.61	77.47	68.98	0	-732.60	2	-494.73	2	-40.25	2.35	-68.2
128	128	163.30	-969.61	77.47	68.98	0	-732.60	2	-494.73	2	-40.25	2.35	-68.2
128	129	164.48	-969.61	94.32	-31.94	0	-827.37	2	-354.53	2	-33.13	2.35	-56.1
129	129	164.48	-969.61	94.32	-31.94	0	-827.37	2	-354.53	2	-33.13	2.35	-56.1
129	130	165.65	-969.61	111.19	-152.69	0	-939.71	2	-191.42	2	-24.05	2.35	-40.7
130	130	165.65	-526.55	111.19	123.78	0	-308.39	2	-425.88	2	-24.05	2.35	-40.7
130	131	166.83	-526.55	128.04	-16.75	0	-438.27	2	-239.94	2	-13.00	2.35	-22.0
131	131	166.83	-526.55	128.04	-16.75	0	-438.27	2	-239.94	2	-13.00	2.35	-22.0
131	132	167.00	-526.55	130.55	-39.41	0	-459.14	2	-210.24	2	-11.19	2.35	-18.9
132	132	167.00	0.00	130.55	141.05	0	130.22	2	-186.03	2	-11.19	2.35	-18.9
132	133	168.00	0.00	152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.To.MZ+
Frecuentes con gradiente. Dominante GRAD

[1]Pvigas + [.95: 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [.9: 1.1]fase4.ISO.To + [.9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: .6]GRAD
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-159.35	171.20	0	150.64	2	-192.83	2	-17.06	2.35	-28.95
2	2	1.00	-476.41	-159.35	7.93	0	-382.59	2	-214.74	2	-17.06	2.35	-28.95
2	3	1.18	-476.41	-156.39	35.56	0	-358.36	2	-245.51	2	-19.85	2.35	-33.69
3	3	1.18	-476.41	-156.39	35.56	0	-358.36	2	-245.51	2	-19.85	2.35	-33.69
3	4	2.35	-476.41	-136.45	207.58	0	-207.17	2	-438.53	2	-37.03	2.35	-62.87
4	4	2.35	-877.27	-136.45	-42.55	0	-778.37	2	-226.40	2	-37.03	2.35	-62.87
4	5	3.53	-877.27	-116.50	106.07	0	-647.15	2	-395.78	2	-51.56	2.35	-87.55
5	5	3.53	-877.27	-116.50	106.07	0	-647.15	2	-395.78	2	-51.56	2.35	-87.55
5	6	4.70	-877.27	-96.57	231.25	0	-535.96	2	-541.44	2	-63.42	2.35	-107.73
6	6	4.70	-877.27	-96.57	231.25	0	-535.96	2	-541.44	2	-63.42	2.35	-107.73
6	7	5.88	-877.27	-76.62	333.00	0	-444.75	2	-663.46	2	-72.62	2.35	-123.40
7	7	5.88	-877.27	-76.62	333.00	0	-444.75	2	-663.46	2	-72.62	2.35	-123.40
7	8	7.05	-877.27	-56.70	411.35	0	-373.54	2	-761.78	2	-79.16	2.35	-134.57
8	8	7.05	-877.27	-56.70	411.35	0	-373.54	2	-761.78	2	-79.16	2.35	-134.57
8	9	8.23	-877.27	-36.76	466.25	0	-322.34	2	-836.43	2	-83.04	2.35	-141.24
9	9	8.23	-877.27	-36.76	466.25	0	-322.34	2	-836.43	2	-83.04	2.35	-141.24
9	10	9.40	-877.27	-16.82	497.75	0	-291.12	2	-887.42	2	-84.25	2.35	-143.41
10	10	9.40	-877.27	-16.82	497.75	0	-291.12	2	-887.42	2	-84.25	2.35	-143.41
10	11	10.58	-877.27	3.10	505.80	0	-279.93	2	-914.71	2	-82.80	2.35	-141.07
11	11	10.58	-877.27	3.10	505.80	0	-279.93	2	-914.71	2	-82.80	2.35	-141.07
11	12	11.75	-877.27	23.06	490.42	0	-288.74	2	-918.32	2	-78.69	2.35	-134.22
12	12	11.75	-877.27	23.06	490.42	0	-288.74	2	-918.32	2	-78.69	2.35	-134.22
12	13	12.93	-877.27	42.99	451.63	0	-317.53	2	-898.27	2	-71.92	2.35	-122.88
13	13	12.93	-877.27	42.99	451.63	0	-317.53	2	-898.27	2	-71.92	2.35	-122.88
13	14	14.10	-877.27	62.93	389.40	0	-366.34	2	-854.54	2	-62.48	2.35	-107.03
14	14	14.10	-877.27	62.93	389.40	0	-366.34	2	-854.54	2	-62.48	2.35	-107.03
14	15	15.28	-877.27	82.86	303.75	0	-435.15	2	-787.12	2	-50.39	2.35	-86.68
15	15	15.28	-877.27	82.86	303.75	0	-435.15	2	-787.12	2	-50.39	2.35	-86.68
15	16	16.45	-877.27	102.81	194.67	0	-523.96	2	-696.02	2	-35.63	2.35	-61.82
16	16	16.45	-876.98	123.52	194.78	0	-523.30	2	-695.71	2	-35.86	2.35	-62.05
16	17	17.63	-876.91	143.47	37.72	0	-658.69	2	-530.63	2	-18.48	2.35	-32.73
17	17	17.63	-876.91	143.47	37.72	0	-564.40	2	-474.18	2	-28.94	2.35	-44.79
17	18	18.80	-876.54	138.14	-131.51	0	-705.92	2	-306.30	2	-3.97	2.35	-6.58
18	18	18.80	-877.89	117.36	-131.64	0	-706.99	2	-307.03	2	-3.95	2.35	-6.56
18	19	19.98	-877.89	134.22	-279.51	0	-829.28	2	-166.32	2	19.11	2.35	28.72
19	19	19.98	-877.89	134.22	-279.51	0	-846.83	2	-100.82	2	4.32	2.35	6.39
19	20	21.15	-878.83	151.06	-447.26	0	-987.61	2	63.70	2	29.24	2.35	44.55
20	20	21.15	-476.41	151.26	-174.67	0	-448.71	2	-145.87	2	29.24	2.35	44.55
20	21	22.33	-476.41	168.12	-362.32	0	-605.79	2	39.87	2	56.91	2.35	86.92
21	21	22.33	-476.41	168.12	-362.32	0	-605.79	2	39.87	2	56.91	2.35	86.92
21	22	22.50	-476.41	170.63	-391.97	0	-630.63	2	69.29	2	61.26	2.35	93.59
22	22	22.50	-801.66	170.63	223.66	0	-205.96	2	-1196.47	2	61.26	2.35	93.59
22	23	23.50	-801.66	190.41	43.15	0	-357.81	2	-1015.02	2	87.31	2.35	133.47
	1023	23.50	-801.66	-212.96	43.15	0	-357.81	2	-1015.02	2	87.31	2.35	133.47
	24	24.50	-801.66	-193.19	246.23	0	-184.73	2	-1227.69	2	59.78	2.35	91.30
24	24	24.50	-512.85	-193.19	-394.91	0	-659.04	2	58.46	2	59.78	2.35	91.30
24	25	24.95	-512.85	-186.73	-309.44	0	-586.40	2	-30.30	2	48.04	2.35	73.32
25	25	24.95	-512.85	-186.73	-309.44	0	-586.40	2	-30.30	2	48.04	2.35	73.32
25	26	26.40	-512.85	-165.94	-53.76	0	-369.06	2	-295.88	2	12.93	2.35	19.55
26	26	26.40	-951.16	-165.82	-351.13	0	-956.51	2	-66.81	2	12.93	2.35	19.55
26	27	27.85	-950.23	-145.02	-125.71	0	-764.27	2	-300.50	2	-17.99	2.35	-27.82
27	27	27.85	-950.23	-145.02	-125.71	0	-747.86	2	-362.42	2	-3.89	2.35	-6.60
27	28	29.30	-950.23	-147.04	86.95	0	-570.53	2	-570.30	2	-35.64	2.35	-55.26
28	28	29.30	-1313.89	-172.19	-150.52	0	-1048.17	2	-395.90	2	-35.83	2.35	-55.45
28	29	30.75	-1313.98	-147.58	81.65	0	-850.17	2	-640.01	2	-66.95	2.35	-103.17
29	29	30.75	-1313.98	-147.58	81.65	0	-993.32	2	-698.95	2	-45.22	2.35	-78.22
29	30	32.20	-1314.05	-122.98	278.12	0	-816.95	2	-936.43	2	-63.30	2.35	-108.80
30	30	32.20	-1314.57	-97.82	277.99	0	-817.69	2	-936.78	2	-63.15	2.35	-108.65
30	31	33.65	-1314.57	-73.21	401.99	0	-711.65	2	-1062.85	2	-77.21	2.35	-132.41
31	31	33.65	-1314.57	-73.21	401.99	0	-711.65	2	-1062.85	2	-77.21	2.35	-132.41
31	32	35.10	-1314.57	-48.62	490.31	0	-636.09	2	-1152.83	2	-87.21	2.35	-149.31
32	32	35.10	-1314.57	-48.62	490.31	0	-636.09	2	-1152.83	2	-87.21	2.35	-149.31
32	33	36.55	-1314.57	-24.00	542.94	0	-590.99	2	-1206.78	2	-93.16	2.35	-159.35
33	33	36.55	-1314.57	-24.00	542.94	0	-590.99	2	-1206.78	2	-93.16	2.35	-159.35
33	34	38.00	-1314.57	0.60	559.92	0	-576.33	2	-1224.67	2	-95.06	2.35	-162.54
34	34	38.00	-1314.57	0.60	559.92	0	-576.33	2	-1224.67	2	-95.06	2.35	-162.54
34	35	39.45	-1314.57	25.21	541.20	0	-592.15	2	-1206.48	2	-92.90	2.35	-158.87
35	35	39.45	-1314.57	25.21	541.20	0	-592.15	2	-1206.48	2	-92.90	2.35	-158.87
	36	40.90	-1314.57	49.82	486.82	0	-638.41	2	-1152.24	2	-86.69	2.35	-148.35
	36	40.90	-1314.57	49.82	486.82	0	-638.41	2	-1152.24	2	-86.69	2.35	-148.35
36	37	42.35	-1314.57	74.41	396.76	0	-715.15	2	-1061.95	2	-76.43	2.35	-130.96
37	37	42.35	-1314.57	74.41	396.76	0	-715.15	2	-1061.95	2	-76.43	2.35	-130.96
37	38	43.80	-1314.57	99.02	271.02	0	-822.33	2	-935.59	2	-62.11	2.35	-106.72
38	38	43.80	-1314.07	124.18	271.15	0	-821.60	2	-935.24	2	-62.27	2.35	-106.88
38	39	45.25	-1314.01	148.78	72.94	0	-999.14	2	-697.46	2	-43.93	2.35	-75.82

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.To.MZ+
Frecuentes con gradiente. Dominante GRAD

1]Pvigas + [.95: 1.05]fase1.ISO.To + [1: 1]Preiosas + [1: 1]HBCV + [.9: 1.1]fase4.ISO.To + [.9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: .6]GRAD
oef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1314.01	148.78	72.94	0	-855.87	2	-637.46	2	-64.74	2.35	-99.70
39	40	46.70	-1313.93	173.39	-160.95	0	-1055.00	2	-392.86	2	-33.18	2.35	-51.30
40	40	46.70	-950.07	148.26	76.51	0	-577.30	2	-567.19	2	-32.94	2.35	-51.05
40	41	48.15	-950.07	146.20	-137.54	0	-755.53	2	-358.90	2	-0.83	2.35	-1.85
41	41	48.15	-950.07	146.20	-137.54	0	-769.24	2	-306.99	2	-12.70	2.35	-19.66
41	42	49.60	-951.01	167.02	-364.65	0	-962.22	2	-74.25	2	18.99	2.35	28.87
42	42	49.60	-512.85	167.10	-67.28	0	-374.86	2	-303.42	2	18.99	2.35	28.87
42	43	51.05	-512.85	187.89	-324.63	0	-592.90	2	-38.79	2	54.85	2.35	83.79
43	43	51.05	-512.85	187.89	-324.63	0	-592.90	2	-38.79	2	54.85	2.35	83.79
43	44	51.50	-512.85	194.35	-410.64	0	-665.79	2	49.69	2	66.82	2.35	102.14
44	44	51.50	-801.66	194.35	230.50	0	-191.47	2	-1236.45	2	66.82	2.35	102.14
44	45	52.50	-801.66	214.12	26.25	0	-365.05	2	-1024.44	2	94.88	2.35	145.12
45	1045	52.50	-801.66	-212.27	26.25	0	-365.05	2	-1024.44	2	94.88	2.35	145.12
45	46	53.50	-801.66	-192.48	228.62	0	-192.61	2	-1236.23	2	67.43	2.35	103.07
46	46	53.50	-512.85	-192.48	-412.52	0	-666.93	2	49.91	2	67.43	2.35	103.07
46	47	53.95	-512.85	-186.02	-327.35	0	-594.56	2	-38.46	2	55.72	2.35	85.13
47	47	53.95	-512.85	-186.02	-327.35	0	-594.56	2	-38.46	2	55.72	2.35	85.13
47	48	55.40	-512.85	-165.23	-72.71	0	-378.17	2	-302.75	2	20.73	2.35	31.54
48	48	55.40	-951.06	-165.13	-370.08	0	-965.56	2	-73.61	2	20.73	2.35	31.54
48	49	56.85	-950.13	-144.32	-145.68	0	-774.23	2	-306.04	2	-10.08	2.35	-15.66
49	49	56.85	-950.13	-144.32	-145.68	0	-760.93	2	-356.34	2	1.39	2.35	1.59
49	50	58.30	-950.13	-145.88	62.92	0	-586.29	2	-562.88	2	-29.20	2.35	-45.30
50	50	58.30	-1313.90	-171.05	-174.54	0	-1063.96	2	-388.52	2	-29.42	2.35	-45.51
50	51	59.75	-1313.98	-146.45	55.96	0	-867.07	2	-632.05	2	-60.04	2.35	-92.48
51	51	59.75	-1313.98	-146.45	55.96	0	-1010.61	2	-693.72	2	-40.68	2.35	-70.25
51	52	61.20	-1314.04	-121.83	250.78	0	-835.36	2	-930.75	2	-58.36	2.35	-100.20
52	52	61.20	-1314.57	-96.68	250.66	0	-836.10	2	-931.11	2	-58.22	2.35	-100.05
52	53	62.65	-1314.57	-72.07	373.00	0	-731.21	2	-1056.72	2	-71.88	2.35	-123.18
53	53	62.65	-1314.57	-72.07	373.00	0	-731.21	2	-1056.72	2	-71.88	2.35	-123.18
53	54	64.10	-1314.57	-47.47	459.66	0	-656.78	2	-1146.25	2	-81.50	2.35	-139.45
54	54	64.10	-1314.57	-47.47	459.66	0	-656.78	2	-1146.25	2	-81.50	2.35	-139.45
54	55	65.55	-1314.57	-22.85	510.65	0	-612.80	2	-1199.75	2	-87.06	2.35	-148.87
55	55	65.55	-1314.57	-22.85	510.65	0	-612.80	2	-1199.75	2	-87.06	2.35	-148.87
55	56	67.00	-1314.57	1.75	525.97	0	-599.28	2	-1217.20	2	-88.57	2.35	-151.43
56	56	67.00	-1314.57	1.75	525.97	0	-599.28	2	-1217.20	2	-88.57	2.35	-151.43
56	57	68.45	-1314.57	26.34	505.60	0	-616.23	2	-1198.56	2	-86.02	2.35	-147.13
57	57	68.45	-1314.57	26.34	505.60	0	-616.23	2	-1198.56	2	-86.02	2.35	-147.13
57	58	69.90	-1314.57	50.94	449.57	0	-663.64	2	-1143.86	2	-79.42	2.35	-135.97
58	58	69.90	-1314.57	50.94	449.57	0	-663.64	2	-1143.86	2	-79.42	2.35	-135.97
58	59	71.35	-1314.57	75.55	357.86	0	-741.49	2	-1053.13	2	-68.77	2.35	-117.96
59	59	71.35	-1314.57	75.55	357.86	0	-741.49	2	-1053.13	2	-68.77	2.35	-117.96
59	60	72.80	-1314.57	100.15	230.46	0	-849.82	2	-926.32	2	-54.06	2.35	-93.08
60	60	72.80	-1314.07	125.31	230.58	0	-849.09	2	-925.97	2	-54.22	2.35	-93.24
60	61	74.25	-1314.02	149.92	30.72	0	-1027.77	2	-687.75	2	-35.50	2.35	-61.55
61	61	74.25	-1314.02	149.92	30.72	0	-883.79	2	-623.81	2	-52.88	2.35	-81.53
61	62	75.70	-1313.93	174.52	-204.83	0	-1084.02	2	-378.63	2	-20.83	2.35	-32.37
62	62	75.70	-950.17	149.37	32.63	0	-606.35	2	-552.99	2	-20.61	2.35	-32.16
62	63	77.15	-950.17	146.89	-171.80	0	-778.25	2	-347.74	2	8.86	2.35	13.00
63	63	77.15	-950.17	146.89	-171.80	0	-792.24	2	-294.88	2	-3.19	2.35	-5.12
63	64	78.60	-951.11	167.69	-399.93	0	-986.15	2	-60.86	2	28.60	2.35	43.57
64	64	78.60	-512.85	167.79	-102.56	0	-398.73	2	-289.97	2	28.60	2.35	43.57
64	65	80.05	-512.85	188.61	-360.94	0	-617.69	2	-24.07	2	64.57	2.35	98.67
65	65	80.05	-512.85	188.61	-360.94	0	-617.69	2	-24.07	2	64.57	2.35	98.67
65	66	80.50	-512.85	195.05	-447.26	0	-690.86	2	64.79	2	76.59	2.35	117.07
66	66	80.50	-801.66	195.05	193.88	0	-216.54	2	-1221.35	2	76.59	2.35	117.07
66	67	81.50	-801.66	214.84	-11.07	0	-390.76	2	-1008.46	2	104.72	2.35	160.17
67	1067	81.50	-801.66	-229.63	-11.07	0	-390.76	2	-1008.46	2	104.72	2.35	160.17
67	68	82.50	-801.66	-209.84	208.67	0	-203.43	2	-1238.78	2	74.98	2.35	114.61
68	68	82.50	-585.73	-209.84	-483.49	0	-777.04	2	88.15	2	74.98	2.35	114.61
68	69	83.08	-585.73	-201.59	-365.20	0	-676.45	2	-34.90	2	58.78	2.35	89.80
69	69	83.08	-585.73	-201.59	-365.20	0	-676.45	2	-34.90	2	58.78	2.35	89.80
69	70	84.65	-585.73	-179.00	-65.51	0	-421.54	2	-346.80	2	17.77	2.35	26.98
70	70	84.65	-1096.87	-178.90	-412.44	0	-1106.76	2	-79.40	2	17.77	2.35	26.98
70	71	86.23	-1095.94	-156.31	-148.38	0	-881.50	2	-353.85	2	-18.32	2.35	-28.30
71	71	86.23	-1095.94	-156.31	-148.38	0	-869.28	2	-400.02	2	-7.79	2.35	-12.47
71	72	87.80	-1095.94	-157.93	112.01	0	-653.81	2	-648.26	2	-47.86	2.35	-73.90
72	72	87.80	-1605.43	-186.24	-220.49	0	-1322.86	2	-404.32	2	-48.07	2.35	-74.10
72	73	89.38	-1605.51	-159.50	52.15	0	-1089.52	2	-694.00	2	-83.98	2.35	-129.17
73	73	89.38	-1605.51	-159.50	52.15	0	-1267.29	2	-749.05	2	-57.72	2.35	-99.05
73	74	90.95	-1605.55	-132.78	282.71	0	-1059.39	2	-1031.66	2	-78.44	2.35	-134.13
74	74	90.95	-1606.11	-104.49	282.58	0	-1060.16	2	-1032.01	2	-78.29	2.35	-133.98
74	75	92.53	-1606.11	-77.75	426.08	0	-936.96	2	-1180.04	2	-94.27	2.35	-161.01
75	75	92.53	-1606.11	-77.75	426.08	0	-936.96	2	-1180.04	2	-94.27	2.35	-161.01
75	76	94.10	-1606.11	-51.03	527.50	0	-849.70	2	-1285.53	2	-105.47	2.35	-179.96
76	76	94.10	-1606.11	-51.03	527.50	0	-849.70	2	-1285.53	2	-105.47	2.35	-179.96
76	77	95.68	-1606.11	-24.31	586.81	0	-798.39	2	-1348.45	2	-111.88	2.35	-190.80

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.To.MZ+
Frecuentes con gradiente. Dominante GRAD

(1; 1)Pvigas + [.95; 1.05]Fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]Fase4.ISO.To + [.9; 1.1]Fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 6]GRAD

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1606.11	-24.31	586.81	0	-798.39	2	-1348.45	2	-111.88	2.35	-190.80
77	78	97.25	-1606.11	2.42	604.02	0	-783.03	2	-1368.83	2	-113.51	2.35	-193.55
78	78	97.25	-1606.11	2.42	604.02	0	-783.03	2	-1368.83	2	-113.51	2.35	-193.55
78	79	98.83	-1606.11	29.14	579.17	0	-803.57	2	-1346.69	2	-110.36	2.35	-188.22
79	79	98.83	-1606.11	29.14	579.17	0	-803.57	2	-1346.69	2	-110.36	2.35	-188.22
79	80	100.40	-1606.11	55.86	512.22	0	-860.06	2	-1282.01	2	-102.42	2.35	-174.80
80	80	100.40	-1606.11	55.86	512.22	0	-860.06	2	-1282.01	2	-102.42	2.35	-174.80
80	81	101.98	-1606.11	82.58	403.16	0	-952.50	2	-1174.77	2	-89.70	2.35	-153.28
81	81	101.98	-1606.11	82.58	403.16	0	-952.50	2	-1174.77	2	-89.70	2.35	-153.28
81	82	103.55	-1606.11	109.32	252.03	0	-1080.87	2	-1024.99	2	-72.20	2.35	-123.67
82	82	103.55	-1605.60	137.61	252.17	0	-1080.11	2	-1024.66	2	-72.35	2.35	-123.83
82	83	105.13	-1605.54	164.32	13.98	0	-1293.18	2	-740.29	2	-50.11	2.35	-86.18
83	83	105.13	-1605.54	164.32	13.98	0	-1114.76	2	-681.68	2	-73.27	2.35	-112.75
83	84	106.70	-1605.45	191.07	-266.31	0	-1353.16	2	-389.52	2	-35.21	2.35	-54.39
84	84	106.70	-1095.90	162.78	66.19	0	-684.09	2	-633.43	2	-34.99	2.35	-54.17
84	85	108.28	-1095.90	160.01	-189.18	0	-896.26	2	-386.77	2	3.72	2.35	5.15
85	85	108.28	-1095.90	160.01	-189.18	0	-908.03	2	-342.22	2	-6.45	2.35	-10.13
85	86	109.85	-1096.84	182.61	-459.07	0	-1137.08	2	-66.13	2	31.33	2.35	47.74
86	86	109.85	-585.73	182.69	-112.14	0	-451.89	2	-333.55	2	31.33	2.35	47.74
86	87	111.43	-585.73	205.29	-417.66	0	-710.59	2	-19.98	2	74.04	2.35	113.16
87	87	111.43	-585.73	205.29	-417.66	0	-710.59	2	-19.98	2	74.04	2.35	113.16
87	88	112.00	-585.73	213.53	-538.11	0	-812.59	2	103.70	2	90.87	2.35	138.93
88	88	112.00	-801.66	213.53	154.05	0	-238.98	2	-1223.23	2	90.87	2.35	138.93
88	89	113.00	-801.66	233.32	-69.35	0	-428.69	2	-991.90	2	121.68	2.35	186.13
89	1089	113.00	-801.66	-233.88	-69.35	0	-428.69	2	-991.90	2	121.68	2.35	186.13
89	90	114.00	-801.66	-214.08	154.63	0	-238.68	2	-1223.09	2	90.64	2.35	138.58
90	90	114.00	-585.73	-214.08	-537.52	0	-812.29	2	103.83	2	90.64	2.35	138.58
90	91	114.58	-585.73	-205.83	-416.81	0	-710.17	2	-19.70	2	73.70	2.35	112.63
91	91	114.58	-585.73	-205.83	-416.81	0	-710.17	2	-19.70	2	73.70	2.35	112.63
91	92	116.15	-585.73	-183.23	-110.41	0	-451.03	2	-333.00	2	30.64	2.35	46.67
92	92	116.15	-1096.79	-183.15	-457.34	0	-1136.20	2	-65.56	2	30.64	2.35	46.67
92	93	117.73	-1095.86	-160.55	-186.59	0	-906.73	2	-341.39	2	-7.50	2.35	-11.73
93	93	117.73	-1095.86	-160.55	-186.59	0	-894.54	2	-387.54	2	3.05	2.35	4.10
93	94	119.30	-1095.86	-163.40	70.12	0	-681.49	2	-634.62	2	-36.02	2.35	-55.77
94	94	119.30	-1605.46	-191.69	-262.38	0	-1350.58	2	-390.71	2	-36.25	2.35	-56.00
94	95	120.88	-1605.55	-164.95	18.88	0	-1111.55	2	-683.17	2	-74.57	2.35	-114.76
95	95	120.88	-1605.55	-164.95	18.88	0	-1289.90	2	-741.24	2	-50.93	2.35	-87.64
95	96	122.45	-1605.61	-138.23	258.08	0	-1076.14	2	-1025.83	2	-73.35	2.35	-125.61
96	96	122.45	-1606.11	-109.94	257.95	0	-1076.89	2	-1026.16	2	-73.19	2.35	-125.44
96	97	124.03	-1606.11	-83.20	410.08	0	-947.86	2	-1176.13	2	-90.86	2.35	-155.35
97	97	124.03	-1606.11	-83.20	410.08	0	-947.86	2	-1176.13	2	-90.86	2.35	-155.35
97	98	125.60	-1606.11	-56.48	520.08	0	-854.79	2	-1283.54	2	-103.74	2.35	-177.15
98	98	125.60	-1606.11	-56.48	520.08	0	-854.79	2	-1283.54	2	-103.74	2.35	-177.15
98	99	127.18	-1606.11	-29.76	588.05	0	-797.61	2	-1348.45	2	-111.85	2.35	-190.88
99	99	127.18	-1606.11	-29.76	588.05	0	-797.61	2	-1348.45	2	-111.85	2.35	-190.88
99	100	128.75	-1606.11	-3.04	613.89	0	-776.39	2	-1370.78	2	-115.17	2.35	-196.51
100	100	128.75	-1606.11	-3.04	613.89	0	-776.39	2	-1370.78	2	-115.17	2.35	-196.51
100	101	130.33	-1606.11	23.69	597.65	0	-791.11	2	-1350.59	2	-113.70	2.35	-194.05
101	101	130.33	-1606.11	23.69	597.65	0	-791.11	2	-1350.59	2	-113.70	2.35	-194.05
101	102	131.90	-1606.11	50.41	539.30	0	-841.78	2	-1287.82	2	-107.46	2.35	-183.49
102	102	131.90	-1606.11	50.41	539.30	0	-841.78	2	-1287.82	2	-107.46	2.35	-183.49
102	103	133.48	-1606.11	77.13	438.88	0	-928.37	2	-1182.52	2	-96.43	2.35	-164.85
103	103	133.48	-1606.11	77.13	438.88	0	-928.37	2	-1182.52	2	-96.43	2.35	-164.85
103	104	135.05	-1606.11	103.87	296.37	0	-1050.90	2	-1034.71	2	-80.61	2.35	-138.12
104	104	135.05	-1605.54	132.16	296.50	0	-1050.13	2	-1034.35	2	-80.76	2.35	-138.26
104	105	136.63	-1605.48	158.88	66.90	0	-1257.38	2	-751.90	2	-60.19	2.35	-103.47
105	105	136.63	-1605.48	158.88	66.90	0	-1079.82	2	-698.49	2	-87.87	2.35	-135.22
105	106	138.20	-1605.42	185.62	-204.77	0	-1312.53	2	-409.11	2	-52.23	2.35	-80.56
106	106	138.20	-1095.98	157.31	127.73	0	-643.50	2	-653.06	2	-52.04	2.35	-80.36
106	107	139.78	-1095.98	155.76	-133.73	0	-859.68	2	-404.47	2	-11.65	2.35	-18.47
107	107	139.78	-1095.98	155.76	-133.73	0	-874.31	2	-349.24	2	-24.24	2.35	-37.39
107	108	141.35	-1096.92	178.36	-396.93	0	-1099.15	2	-74.53	2	11.50	2.35	17.35
108	108	141.35	-585.73	178.45	-50.00	0	-413.90	2	-341.90	2	11.50	2.35	17.35
108	109	142.93	-585.73	201.05	-348.85	0	-668.40	2	-29.70	2	52.17	2.35	79.64
109	109	142.93	-585.73	201.05	-348.85	0	-668.40	2	-29.70	2	52.17	2.35	79.64
109	110	143.50	-585.73	209.30	-466.84	0	-768.86	2	93.47	2	68.24	2.35	104.26
110	110	143.50	-801.66	209.30	225.32	0	-195.25	2	-1233.46	2	68.24	2.35	104.26
110	111	144.50	-801.66	229.09	6.16	0	-382.28	2	-1003.00	2	97.76	2.35	149.47
111	1111	144.50	-801.66	-192.00	6.16	0	-382.28	2	-1003.00	2	97.76	2.35	149.47
111	112	145.50	-801.66	-172.21	188.27	0	-229.37	2	-1184.99	2	71.26	2.35	108.90
112	112	145.50	-476.41	-172.21	-427.36	0	-654.04	2	80.77	2	71.26	2.35	108.90
112	113	145.68	-476.41	-169.70	-397.48	0	-629.05	2	51.30	2	66.84	2.35	102.12
113	113	145.68	-476.41	-169.70	-397.48	0	-629.05	2	51.30	2	66.84	2.35	102.12
113	114	146.85	-476.41	-152.85	-207.98	0	-470.75	2	-135.03	2	38.65	2.35	58.95
114	114	146.85	-878.82	-152.65	-480.57	0	-1009.65	2	74.54	2	38.65	2.35	58.95
114	115	148.03	-877.89	-135.78	-310.96	0	-867.64	2	-90.60	2	13.20	2.35	19.98

CÁLCULO TENSIONAL

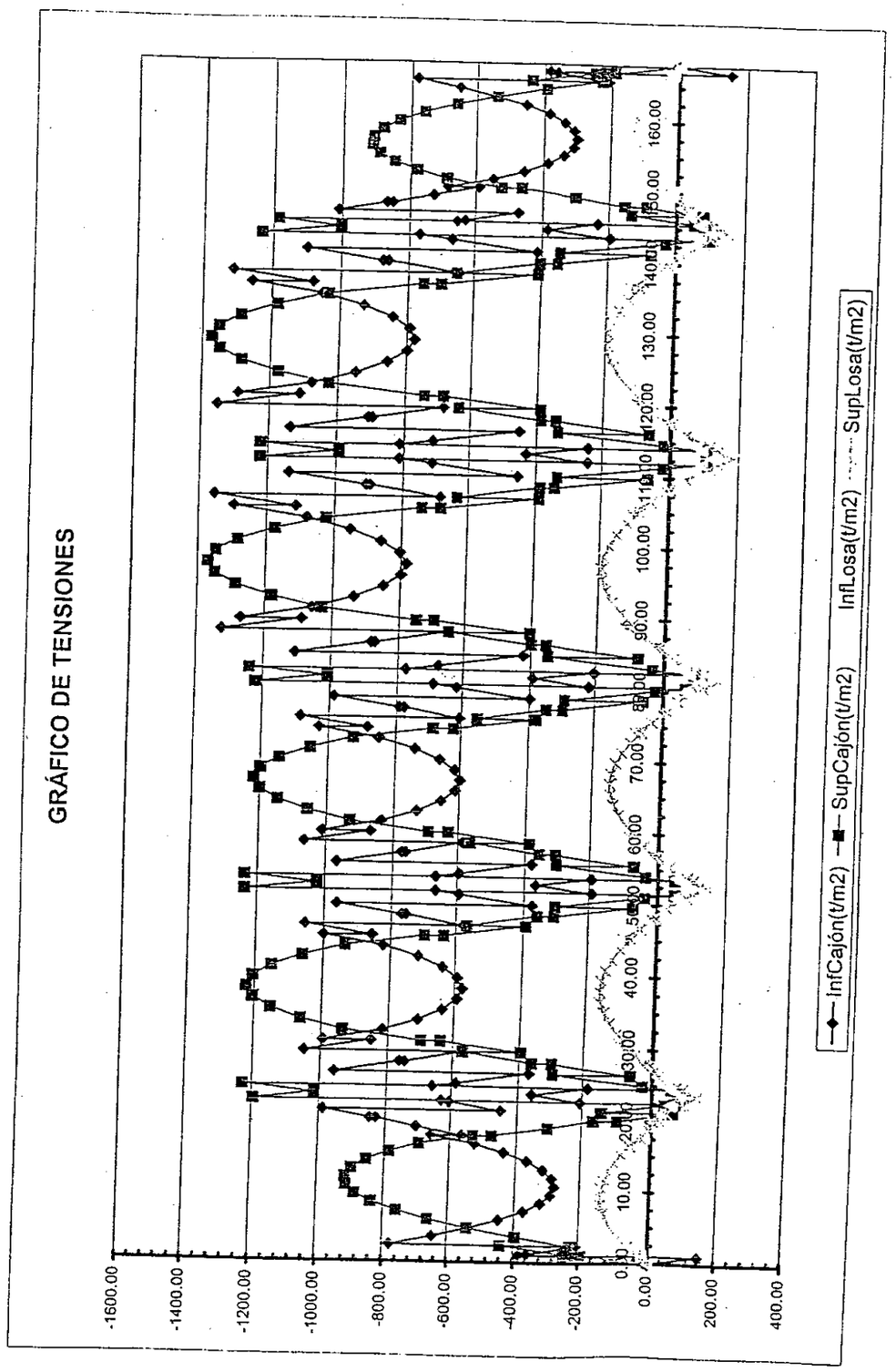
Hipótesis de cálculo:
FREC1.GRAD.To.MZ+
Frecuentes con gradiente. Dominante GRAD

(1; 1)Pvigas + [.95; 1.05]Fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]Fase4.ISO.To + [.9; 1.1]Fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.89	-135.78	-310.96	0	-850.08	2	-156.10	2	27.99	2.35	42.31
115	116	149.20	-877.89	-118.91	-161.22	0	-726.56	2	-297.41	2	4.40	2.35	6.22
116	116	149.20	-876.55	-139.72	-161.10	0	-725.50	2	-296.69	2	4.38	2.35	6.21
116	117	150.38	-876.94	-145.51	1.55	0	-588.33	2	-462.47	2	-18.77	2.35	-29.21
117	117	150.38	-876.94	-145.51	1.55	0	-683.23	2	-522.28	2	-11.23	2.35	-20.49
117	118	151.55	-877.02	-125.57	161.03	0	-546.20	2	-687.93	2	-29.10	2.35	-50.63
118	118	151.55	-877.27	-104.86	160.91	0	-546.85	2	-688.22	2	-28.86	2.35	-50.39
118	119	152.73	-877.27	-84.92	272.40	0	-456.41	2	-779.88	2	-44.10	2.35	-76.06
119	119	152.73	-877.27	-84.92	272.40	0	-456.41	2	-779.88	2	-44.10	2.35	-76.06
119	120	153.90	-877.27	-64.98	360.46	0	-385.97	2	-847.86	2	-56.68	2.35	-97.22
120	120	153.90	-877.27	-64.98	360.46	0	-385.97	2	-847.86	2	-56.68	2.35	-97.22
120	121	155.08	-877.27	-45.04	425.11	0	-335.52	2	-892.15	2	-66.60	2.35	-113.90
121	121	155.08	-877.27	-45.04	425.11	0	-335.52	2	-892.15	2	-66.60	2.35	-113.90
121	122	156.25	-877.27	-25.11	466.31	0	-305.09	2	-912.75	2	-73.85	2.35	-126.06
122	122	156.25	-877.27	-25.11	466.31	0	-305.09	2	-912.75	2	-73.85	2.35	-126.06
122	123	157.43	-877.27	-5.17	484.09	0	-294.65	2	-909.69	2	-78.45	2.35	-133.71
123	123	157.43	-877.27	-5.17	484.09	0	-294.65	2	-909.69	2	-78.45	2.35	-133.71
123	124	158.60	-877.27	14.77	478.45	0	-304.21	2	-882.96	2	-80.38	2.35	-136.87
124	124	158.60	-877.27	14.77	478.45	0	-304.21	2	-882.96	2	-80.38	2.35	-136.87
124	125	159.78	-877.27	34.69	449.39	0	-333.78	2	-832.53	2	-79.65	2.35	-135.53
125	125	159.78	-877.27	34.69	449.39	0	-333.78	2	-832.53	2	-79.65	2.35	-135.53
125	126	160.95	-877.27	54.64	396.87	0	-383.36	2	-758.44	2	-76.25	2.35	-129.67
126	126	160.95	-877.27	54.64	396.87	0	-383.36	2	-758.44	2	-76.25	2.35	-129.67
126	127	162.13	-877.27	74.58	320.96	0	-452.91	2	-660.68	2	-70.20	2.35	-119.32
127	127	162.13	-877.27	74.58	320.96	0	-452.91	2	-660.68	2	-70.20	2.35	-119.32
127	128	163.30	-877.27	94.52	221.61	0	-542.49	2	-539.21	2	-61.49	2.35	-104.46
128	128	163.30	-877.27	94.52	221.61	0	-542.49	2	-539.21	2	-61.49	2.35	-104.46
128	129	164.48	-877.27	114.45	98.84	0	-652.05	2	-394.11	2	-50.11	2.35	-85.10
129	129	164.48	-877.27	114.45	98.84	0	-652.05	2	-394.11	2	-50.11	2.35	-85.10
129	130	165.65	-877.27	134.40	-47.37	0	-781.63	2	-225.28	2	-36.07	2.35	-61.24
130	130	165.65	-476.41	134.40	202.76	0	-210.44	2	-437.42	2	-36.07	2.35	-61.24
130	131	166.83	-476.41	154.34	33.14	0	-360.00	2	-244.96	2	-19.36	2.35	-32.87
131	131	166.83	-476.41	154.34	33.14	0	-360.00	2	-244.96	2	-19.36	2.35	-32.87
131	132	167.00	-476.41	157.30	5.84	0	-384.02	2	-214.22	2	-16.64	2.35	-28.25
132	132	167.00	0.00	157.30	169.12	0	149.21	2	-192.31	2	-16.64	2.35	-28.25
132	133	168.00	0.00	152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

GRÁFICO DE TENSIONES



CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.IPF75B.EnvTrenGen.MZ+.To.MZ+
Frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+

1: 1]Pvigas + [.95: 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [.9: 1.1]fase4.ISO.To + [.9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: .5]GRAD + [0: .732]IPF75B.MZ+ + [0: .3]PAS

hef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-248.26	263.88	0	213.34	2	-213.45	2	-34.97	2.35	-59.53
2	2	1.00	-476.41	-248.26	100.61	0	-319.89	2	-235.36	2	-34.97	2.35	-59.53
2	3	1.18	-476.41	-243.70	143.35	0	-285.43	2	-269.50	2	-40.68	2.35	-69.25
3	3	1.18	-476.41	-243.70	143.35	0	-285.43	2	-269.50	2	-40.68	2.35	-69.25
3	4	2.35	-476.41	-213.45	409.39	0	-70.64	2	-483.43	2	-76.03	2.35	-129.45
4	4	2.35	-877.27	-213.45	159.25	0	-641.83	2	-271.30	2	-76.03	2.35	-129.45
4	5	3.53	-877.27	-183.25	388.24	0	-456.25	2	-458.56	2	-106.09	2.35	-180.64
5	5	3.53	-877.27	-183.25	388.24	0	-456.25	2	-458.56	2	-106.09	2.35	-180.64
5	6	4.70	-877.27	-152.93	582.93	0	-298.03	2	-619.69	2	-131.39	2.35	-223.75
6	6	4.70	-877.27	-152.93	582.93	0	-298.03	2	-619.69	2	-131.39	2.35	-223.75
6	7	5.88	-877.27	-122.50	742.63	0	-167.62	2	-754.60	2	-151.78	2.35	-258.54
7	7	5.88	-877.27	-122.50	742.63	0	-167.62	2	-754.60	2	-151.78	2.35	-258.54
7	8	7.05	-877.27	-87.26	865.95	0	-65.98	2	-862.94	2	-167.01	2.35	-284.55
8	8	7.05	-877.27	-87.26	865.95	0	-65.98	2	-862.94	2	-167.01	2.35	-284.55
8	9	8.23	-877.27	-57.07	953.01	0	6.98	2	-944.74	2	-177.11	2.35	-301.83
9	9	8.23	-877.27	-57.07	953.01	0	6.98	2	-944.74	2	-177.11	2.35	-301.83
9	10	9.40	-877.27	-26.74	1005.19	0	52.18	2	-1000.33	2	-182.32	2.35	-310.82
10	10	9.40	-877.27	-26.74	1005.19	0	52.18	2	-1000.33	2	-182.32	2.35	-310.82
10	11	10.58	-877.27	-1.46	1022.17	0	69.42	2	-1029.61	2	-182.60	2.35	-311.42
11	11	10.58	-877.27	-1.46	1022.17	0	69.42	2	-1029.61	2	-182.60	2.35	-311.42
11	12	11.75	-877.27	33.45	1001.90	0	57.30	2	-1032.13	2	-177.54	2.35	-302.96
12	12	11.75	-877.27	33.45	1001.90	0	57.30	2	-1032.13	2	-177.54	2.35	-302.96
12	13	12.93	-877.27	59.67	947.15	0	17.71	2	-1008.53	2	-167.68	2.35	-286.36
13	13	12.93	-877.27	59.67	947.15	0	17.71	2	-1008.53	2	-167.68	2.35	-286.36
13	14	14.10	-877.27	93.96	856.65	0	-50.22	2	-958.51	2	-152.78	2.35	-261.18
14	14	14.10	-877.27	93.96	856.65	0	-50.22	2	-958.51	2	-152.78	2.35	-261.18
14	15	15.28	-877.27	119.85	731.75	0	-145.59	2	-882.35	2	-133.10	2.35	-227.88
15	15	15.28	-877.27	119.85	731.75	0	-145.59	2	-882.35	2	-133.10	2.35	-227.88
15	16	16.45	-877.27	150.04	570.43	0	-269.74	2	-779.63	2	-108.25	2.35	-185.79
16	16	16.45	-877.54	170.76	570.55	0	-269.26	2	-779.51	2	-108.64	2.35	-186.18
16	17	17.63	-877.59	201.09	348.72	0	-448.51	2	-600.05	2	-78.77	2.35	-135.53
17	17	17.63	-877.59	201.09	348.72	0	-359.28	2	-573.73	2	-115.41	2.35	-177.57
17	18	18.80	-877.34	206.26	101.90	0	-552.06	2	-381.11	2	-68.94	2.35	-106.31
18	18	18.80	-877.89	185.47	101.78	0	-552.88	2	-381.59	2	-68.71	2.35	-106.08
18	19	19.98	-877.89	208.17	-133.54	0	-732.90	2	-212.96	2	-21.39	2.35	-33.52
19	19	19.98	-877.89	208.17	-133.54	0	-750.45	2	-147.45	2	-36.18	2.35	-55.85
19	20	21.15	-878.83	185.08	-359.30	0	-929.54	2	35.60	2	4.84	2.35	7.05
20	20	21.15	-476.41	185.28	-86.72	0	-390.64	2	-173.97	2	4.84	2.35	7.05
20	21	22.33	-476.41	182.08	-299.09	0	-564.05	2	19.67	2	39.37	2.35	59.96
21	21	22.33	-476.41	182.08	-299.09	0	-564.05	2	19.67	2	39.37	2.35	59.96
21	22	22.50	-476.41	177.78	-330.35	0	-589.95	2	49.60	2	44.17	2.35	67.31
22	22	22.50	-801.66	177.78	285.28	0	-165.28	2	-1216.15	2	44.17	2.35	67.31
22	23	23.50	-801.66	187.89	102.33	0	-318.73	2	-1033.92	2	70.89	2.35	108.24
23	1023	23.50	-801.66	-198.27	102.33	0	-318.73	2	-1033.92	2	70.89	2.35	108.24
23	24	24.50	-801.66	-192.06	294.90	0	-152.59	2	-1243.23	2	46.27	2.35	70.55
24	24	24.50	-512.85	-192.06	-345.24	0	-626.91	2	42.91	2	46.27	2.35	70.55
24	25	24.95	-512.85	-192.08	-261.77	0	-554.92	2	-45.52	2	34.81	2.35	53.00
25	25	24.95	-512.85	-192.08	-261.77	0	-554.92	2	-45.52	2	34.81	2.35	53.00
25	26	26.40	-512.85	-186.82	10.51	0	-326.63	2	-316.41	2	-4.90	2.35	-7.85
26	26	26.40	-951.16	-186.70	-286.86	0	-914.08	2	-87.34	2	-4.90	2.35	-7.85
26	27	27.85	-950.23	-199.69	3.57	0	-678.91	2	-341.79	2	-53.86	2.35	-82.94
27	27	27.85	-950.23	-199.69	3.57	0	-662.50	2	-403.72	2	-39.75	2.35	-61.72
27	28	29.30	-950.23	-225.91	316.41	0	-419.03	2	-643.60	2	-99.31	2.35	-153.10
28	28	29.30	-1314.65	-251.07	78.95	0	-896.90	2	-469.44	2	-99.70	2.35	-153.48
28	29	30.75	-1314.61	-213.51	419.33	0	-627.41	2	-748.08	2	-160.81	2.35	-247.31
29	29	30.75	-1314.61	-213.51	419.33	0	-765.07	2	-774.30	2	-110.66	2.35	-189.80
29	30	32.20	-1314.55	-175.80	705.73	0	-527.81	2	-1031.75	2	-146.08	2.35	-250.02
30	30	32.20	-1314.57	-150.65	705.61	0	-528.38	2	-1031.93	2	-145.79	2.35	-249.72
30	31	33.65	-1314.57	-113.78	899.77	0	-374.88	2	-1173.61	2	-173.41	2.35	-296.63
31	31	33.65	-1314.57	-113.78	899.77	0	-374.88	2	-1173.61	2	-173.41	2.35	-296.63
31	32	35.10	-1314.57	-80.95	1040.88	0	-263.60	2	-1275.34	2	-193.61	2.35	-330.95
32	32	35.10	-1314.57	-80.95	1040.88	0	-263.60	2	-1275.34	2	-193.61	2.35	-330.95
32	33	36.55	-1314.57	-38.51	1127.92	0	-195.22	2	-1336.94	2	-206.21	2.35	-352.34
33	33	36.55	-1314.57	-38.51	1127.92	0	-195.22	2	-1336.94	2	-206.21	2.35	-352.34
33	34	38.00	-1314.57	-5.69	1159.00	0	-171.02	2	-1357.97	2	-210.84	2.35	-360.19
34	34	38.00	-1314.57	-5.69	1159.00	0	-171.02	2	-1357.97	2	-210.84	2.35	-360.19
34	35	39.45	-1314.57	31.19	1138.56	0	-188.01	2	-1339.40	2	-208.35	2.35	-355.95
35	35	39.45	-1314.57	31.19	1138.56	0	-188.01	2	-1339.40	2	-208.35	2.35	-355.95
35	36	40.90	-1314.57	73.62	1062.11	0	-249.20	2	-1280.24	2	-197.87	2.35	-338.14
36	36	40.90	-1314.57	73.62	1062.11	0	-249.20	2	-1280.24	2	-197.87	2.35	-338.14
36	37	42.35	-1314.57	106.44	931.67	0	-353.25	2	-1180.97	2	-179.80	2.35	-307.43
37	37	42.35	-1314.57	106.44	931.67	0	-353.25	2	-1180.97	2	-179.80	2.35	-307.43
37	38	43.80	-1314.57	143.31	748.14	0	-499.54	2	-1041.75	2	-154.32	2.35	-264.12
38	38	43.80	-1314.49	168.47	748.26	0	-498.95	2	-1041.54	2	-154.59	2.35	-264.40
38	39	45.25	-1314.55	206.18	472.47	0	-729.02	2	-786.54	2	-121.30	2.35	-207.78

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.IPF75B.EnvTrenGen.MZ+.To.MZ+
Frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+

1 · Vigas + [.05; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ+ + [0; .3]PA

Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1314.55	206.18	472.47	0	-592.25	2	-765.26	2	-175.74	2.35	-270.19
39	40	46.70	-1314.61	243.74	142.75	0	-854.70	2	-490.08	2	-117.63	2.35	-180.96
40	40	46.70	-950.07	218.60	380.21	0	-376.79	2	-664.20	2	-117.20	2.35	-180.54
40	41	48.15	-950.07	208.57	63.12	0	-623.06	2	-423.00	2	-56.51	2.35	-87.40
41	41	48.15	-950.07	208.57	63.12	0	-636.76	2	-371.09	2	-68.37	2.35	-105.22
41	42	49.60	-951.01	197.17	-232.72	0	-875.12	2	-116.39	2	-17.62	2.35	-27.38
42	42	49.60	-512.85	197.25	64.64	0	-287.76	2	-345.56	2	-17.62	2.35	-27.38
42	43	51.05	-512.85	195.16	-215.47	0	-520.84	2	-73.66	2	24.56	2.35	37.25
43	43	51.05	-512.85	195.16	-215.47	0	-520.84	2	-73.66	2	24.56	2.35	37.25
43	44	51.50	-512.85	195.18	-301.97	0	-594.04	2	14.98	2	36.67	2.35	55.81
44	44	51.50	-801.66	195.18	339.17	0	-119.73	2	-1271.17	2	36.67	2.35	55.81
44	45	52.50	-801.66	201.42	143.06	0	-287.93	2	-1061.76	2	62.47	2.35	95.31
45	1045	52.50	-801.66	-193.37	143.06	0	-287.93	2	-1061.76	2	62.47	2.35	95.31
45	46	53.50	-801.66	-187.14	330.99	0	-125.03	2	-1268.93	2	39.02	2.35	59.42
46	46	53.50	-512.85	-187.14	-310.15	0	-599.34	2	17.21	2	39.02	2.35	59.42
46	47	53.95	-512.85	-187.15	-227.43	0	-528.59	2	-70.38	2	27.99	2.35	42.53
47	47	53.95	-512.85	-187.15	-227.43	0	-528.59	2	-70.38	2	27.99	2.35	42.53
47	48	55.40	-512.85	-191.62	41.39	0	-302.83	2	-339.20	2	-10.93	2.35	-17.11
48	48	55.40	-951.06	-191.52	-255.98	0	-890.22	2	-110.06	2	-10.93	2.35	-17.11
8	49	56.85	-950.13	-199.67	34.46	0	-655.30	2	-363.58	2	-60.06	2.35	-92.46
)9	49	56.85	-950.13	-199.67	34.46	0	-642.00	2	-413.88	2	-48.58	2.35	-75.21
49	50	58.30	-950.13	-222.36	345.65	0	-399.62	2	-653.20	2	-107.64	2.35	-165.84
50	50	58.30	-1314.64	-247.51	108.19	0	-877.52	2	-479.07	2	-108.06	2.35	-166.25
50	51	59.75	-1314.59	-209.96	443.39	0	-611.46	2	-756.00	2	-167.70	2.35	-257.83
51	51	59.75	-1314.59	-209.96	443.39	0	-748.70	2	-780.12	2	-115.73	2.35	-198.24
51	52	61.20	-1314.52	-172.25	724.72	0	-514.88	2	-1036.36	2	-150.09	2.35	-256.69
52	52	61.20	-1314.57	-147.09	724.59	0	-515.46	2	-1036.56	2	-149.81	2.35	-256.41
52	53	62.65	-1314.57	-110.22	913.58	0	-365.48	2	-1177.00	2	-176.36	2.35	-301.52
53	53	62.65	-1314.57	-110.22	913.58	0	-365.48	2	-1177.00	2	-176.36	2.35	-301.52
53	54	64.10	-1314.57	-77.39	1049.54	0	-257.70	2	-1277.51	2	-195.50	2.35	-334.06
54	54	64.10	-1314.57	-77.39	1049.54	0	-257.70	2	-1277.51	2	-195.50	2.35	-334.06
54	55	65.55	-1314.57	-34.96	1131.47	0	-192.78	2	-1337.89	2	-207.04	2.35	-353.68
55	55	65.55	-1314.57	-34.96	1131.47	0	-192.78	2	-1337.89	2	-207.04	2.35	-353.68
55	56	67.00	-1314.57	-2.13	1157.39	0	-172.09	2	-1357.69	2	-210.60	2.35	-359.74
56	56	67.00	-1314.57	-2.13	1157.39	0	-172.09	2	-1357.69	2	-210.60	2.35	-359.74
56	57	68.45	-1314.57	34.72	1131.85	0	-192.54	2	-1337.91	2	-207.05	2.35	-353.73
57	57	68.45	-1314.57	34.72	1131.85	0	-192.54	2	-1337.91	2	-207.05	2.35	-353.73
57	58	69.90	-1314.57	77.14	1050.25	0	-257.24	2	-1277.52	2	-195.51	2.35	-334.14
58	58	69.90	-1314.57	77.14	1050.25	0	-257.24	2	-1277.52	2	-195.51	2.35	-334.14
58	59	71.35	-1314.57	109.99	914.69	0	-364.77	2	-1177.03	2	-176.38	2.35	-301.66
59	59	71.35	-1314.57	109.99	914.69	0	-364.77	2	-1177.03	2	-176.38	2.35	-301.66
59	60	72.80	-1314.57	146.84	726.02	0	-514.55	2	-1036.59	2	-149.83	2.35	-256.57
60	60	72.80	-1314.51	172.00	726.15	0	-513.96	2	-1036.39	2	-150.11	2.35	-256.86
60	61	74.25	-1314.60	209.72	445.18	0	-747.55	2	-780.16	2	-115.76	2.35	-198.45
· ·	61	74.25	-1314.60	209.72	445.18	0	-610.32	2	-756.39	2	-168.03	2.35	-258.39
· ·	62	75.70	-1314.62	247.27	110.35	0	-876.14	2	-479.53	2	-108.46	2.35	-166.93
62	62	75.70	-950.17	222.11	347.81	0	-398.26	2	-653.68	2	-108.06	2.35	-166.54
62	63	77.15	-950.17	210.26	34.75	0	-641.88	2	-413.72	2	-48.45	2.35	-75.07
63	63	77.15	-950.17	210.26	34.75	0	-655.87	2	-360.87	2	-60.50	2.35	-93.19
63	64	78.60	-951.11	195.58	-267.74	0	-898.87	2	-103.09	2	-8.08	2.35	-12.79
64	64	78.60	-512.85	195.68	29.62	0	-311.45	2	-332.20	2	-8.08	2.35	-12.79
64	65	80.05	-512.85	193.66	-251.45	0	-545.41	2	-59.05	2	34.20	2.35	51.99
65	65	80.05	-512.85	193.66	-251.45	0	-545.41	2	-59.05	2	34.20	2.35	51.99
65	66	80.50	-512.85	193.66	-337.64	0	-618.48	2	29.78	2	46.17	2.35	70.33
66	66	80.50	-801.66	193.66	303.50	0	-144.17	2	-1256.37	2	46.17	2.35	70.33
66	67	81.50	-801.66	199.93	108.64	0	-311.72	2	-1046.70	2	71.51	2.35	109.13
67	1067	81.50	-801.66	-213.23	108.64	0	-311.72	2	-1046.70	2	71.51	2.35	109.13
67	68	82.50	-801.66	-208.83	315.80	0	-132.69	2	-1273.01	2	45.26	2.35	68.93
68	68	82.50	-585.73	-208.83	-376.35	0	-706.30	2	53.92	2	45.26	2.35	68.93
68	69	83.08	-585.73	-208.68	-258.82	0	-606.21	2	-68.88	2	29.27	2.35	44.44
69	69	83.08	-585.73	-208.68	-258.82	0	-606.21	2	-68.88	2	29.27	2.35	44.44
69	70	84.65	-585.73	-211.21	65.16	0	-335.27	2	-388.54	2	-18.49	2.35	-28.73
70	70	84.65	-1096.87	-211.11	-281.77	0	-1020.48	2	-121.14	2	-18.49	2.35	-28.73
70	71	86.23	-1095.94	-225.20	64.84	0	-740.72	2	-421.96	2	-77.48	2.35	-119.21
71	71	86.23	-1095.94	-225.20	64.84	0	-728.50	2	-468.13	2	-66.95	2.35	-103.38
71	72	87.80	-1095.94	-243.76	449.60	0	-430.92	2	-756.10	2	-141.53	2.35	-217.83
72	72	87.80	-1606.18	-272.06	117.10	0	-1100.20	2	-512.40	2	-141.94	2.35	-218.24
72	73	89.38	-1606.15	-231.36	509.41	0	-787.81	2	-840.27	2	-211.02	2.35	-324.29
73	73	89.38	-1606.15	-231.36	509.41	0	-958.14	2	-851.01	2	-146.27	2.35	-250.09
73	74	90.95	-1606.02	-185.97	839.84	0	-682.62	2	-1155.79	2	-186.24	2.35	-318.07
74	74	90.95	-1606.11	-157.69	839.71	0	-683.23	2	-1155.98	2	-185.96	2.35	-317.79
74	75	92.53	-1606.11	-116.95	1060.19	0	-507.96	2	-1321.14	2	-216.82	2.35	-370.21
75	75	92.53	-1606.11	-116.95	1060.19	0	-507.96	2	-1321.14	2	-216.82	2.35	-370.21
75	76	94.10	-1606.11	-81.47	1216.00	0	-383.90	2	-1438.73	2	-238.53	2.35	-407.10
76	76	94.10	-1606.11	-81.47	1216.00	0	-383.90	2	-1438.73	2	-238.53	2.35	-407.10
76	77	95.68	-1606.11	-40.85	1308.85	0	-309.89	2	-1509.11	2	-251.42	2.35	-429.01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.IPF75B.EnvTrenGen.MZ+.To.MZ+
Frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ+ + [0; .3]PAS

Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1606.11	-40.85	1308.85	0	-309.89	2	-1509.11	2	-251.42	2.35	-429.01
77	78	97.25	-1606.11	0.13	1336.02	0	-287.79	2	-1531.71	2	-254.97	2.35	-435.05
78	78	97.25	-1606.11	0.13	1336.02	0	-287.79	2	-1531.71	2	-254.97	2.35	-435.05
78	79	98.83	-1606.11	45.33	1301.78	0	-314.69	2	-1507.48	2	-250.00	2.35	-426.62
79	79	98.83	-1606.11	45.33	1301.78	0	-314.69	2	-1507.48	2	-250.00	2.35	-426.62
79	80	100.40	-1606.11	85.95	1201.84	0	-393.50	2	-1435.46	2	-235.69	2.35	-402.31
80	80	100.40	-1606.11	85.95	1201.84	0	-393.50	2	-1435.46	2	-235.69	2.35	-402.31
80	81	101.98	-1606.11	121.43	1038.96	0	-522.35	2	-1316.24	2	-212.57	2.35	-363.03
81	81	101.98	-1606.11	121.43	1038.96	0	-522.35	2	-1316.24	2	-212.57	2.35	-363.03
81	82	103.55	-1606.11	162.17	811.42	0	-702.41	2	-1149.46	2	-180.30	2.35	-308.22
82	82	103.55	-1606.06	190.46	811.55	0	-701.81	2	-1149.28	2	-180.59	2.35	-308.51
82	83	105.13	-1606.18	235.84	474.03	0	-982.15	2	-842.87	2	-139.20	2.35	-238.13
83	83	105.13	-1606.18	235.84	474.03	0	-811.22	2	-828.83	2	-201.08	2.35	-309.06
83	84	106.70	-1606.20	276.55	74.65	0	-1128.28	2	-498.67	2	-130.01	2.35	-199.96
84	84	106.70	-1095.90	248.26	407.15	0	-458.98	2	-742.36	2	-129.59	2.35	-199.54
84	85	108.28	-1095.90	237.84	20.22	0	-758.00	2	-453.67	2	-54.38	2.35	-84.13
85	85	108.28	-1095.90	237.84	20.22	0	-769.78	2	-409.12	2	-64.55	2.35	-99.41
85	86	109.85	-1096.84	216.76	-345.95	0	-1062.40	2	-102.26	2	-0.05	2.35	-0.48
86	86	109.85	-585.73	216.84	0.98	0	-377.21	2	-369.68	2	-0.05	2.35	-0.48
86	87	111.43	-585.73	214.58	-336.12	0	-656.75	2	-46.03	2	51.42	2.35	78.40
87	87	111.43	-585.73	214.58	-336.12	0	-656.75	2	-46.03	2	51.42	2.35	78.40
87	88	112.00	-585.73	215.04	-457.47	0	-759.35	2	77.94	2	68.49	2.35	104.55
88	88	112.00	-801.66	215.04	234.69	0	-185.74	2	-1248.99	2	68.49	2.35	104.55
88	89	113.00	-801.66	219.48	20.97	0	-369.05	2	-1020.75	2	96.62	2.35	147.62
89	1089	113.00	-801.66	-223.56	20.97	0	-369.05	2	-1020.75	2	96.62	2.35	147.62
89	90	114.00	-801.66	-219.11	238.83	0	-183.09	2	-1249.99	2	67.28	2.35	102.69
90	90	114.00	-585.73	-219.11	-453.33	0	-756.70	2	76.94	2	67.28	2.35	102.69
90	91	114.58	-585.73	-217.20	-329.69	0	-652.65	2	-47.53	2	49.52	2.35	75.48
91	91	114.58	-585.73	-217.20	-329.69	0	-652.65	2	-47.53	2	49.52	2.35	75.48
91	92	116.15	-585.73	-219.33	11.76	0	-370.37	2	-372.03	2	-3.26	2.35	-5.42
92	92	116.15	-1096.79	-219.25	-335.17	0	-1055.54	2	-104.58	2	-3.26	2.35	-5.42
92	93	117.73	-1095.86	-239.97	33.53	0	-761.40	2	-411.71	2	-68.57	2.35	-105.58
93	93	117.73	-1095.86	-239.97	33.53	0	-749.21	2	-457.86	2	-58.03	2.35	-89.75
93	94	119.30	-1095.86	-245.24	420.01	0	-450.49	2	-746.39	2	-133.09	2.35	-204.95
94	94	119.30	-1606.18	-273.53	87.51	0	-1119.79	2	-502.71	2	-133.53	2.35	-205.38
94	95	120.88	-1606.16	-232.83	482.16	0	-805.87	2	-831.35	2	-203.27	2.35	-312.44
95	95	120.88	-1606.16	-232.83	482.16	0	-976.66	2	-844.53	2	-140.64	2.35	-240.66
95	96	122.45	-1606.04	-187.44	814.97	0	-699.52	2	-1149.88	2	-181.10	2.35	-309.45
96	96	122.45	-1606.11	-159.15	814.84	0	-700.13	2	-1150.07	2	-180.81	2.35	-309.17
96	97	124.03	-1606.11	-118.42	1037.65	0	-523.27	2	-1315.77	2	-212.14	2.35	-362.39
97	97	124.03	-1606.11	-118.42	1037.65	0	-523.27	2	-1315.77	2	-212.14	2.35	-362.39
97	98	125.60	-1606.11	-82.93	1195.77	0	-397.65	2	-1433.89	2	-234.32	2.35	-400.07
98	98	125.60	-1606.11	-82.93	1195.77	0	-397.65	2	-1433.89	2	-234.32	2.35	-400.07
98	99	127.18	-1606.11	-42.32	1290.99	0	-322.03	2	-1504.87	2	-247.70	2.35	-422.79
99	99	127.18	-1606.11	-42.32	1290.99	0	-322.03	2	-1504.87	2	-247.70	2.35	-422.79
99	100	128.75	-1606.11	-1.35	1320.53	0	-298.32	2	-1528.02	2	-251.73	2.35	-429.63
100	100	128.75	-1606.11	-1.35	1320.53	0	-298.32	2	-1528.02	2	-251.73	2.35	-429.63
100	101	130.33	-1606.11	43.86	1288.60	0	-323.65	2	-1504.33	2	-247.23	2.35	-422.00
101	101	130.33	-1606.11	43.86	1288.60	0	-323.65	2	-1504.33	2	-247.23	2.35	-422.00
101	102	131.90	-1606.11	84.49	1190.97	0	-400.89	2	-1432.82	2	-233.40	2.35	-398.49
102	102	131.90	-1606.11	84.49	1190.97	0	-400.89	2	-1432.82	2	-233.40	2.35	-398.49
102	103	133.48	-1606.11	119.95	1030.46	0	-528.14	2	-1314.16	2	-210.75	2.35	-360.02
103	103	133.48	-1606.11	119.95	1030.46	0	-528.14	2	-1314.16	2	-210.75	2.35	-360.02
103	104	135.05	-1606.11	160.70	805.23	0	-706.63	2	-1147.93	2	-178.96	2.35	-305.00
104	104	135.05	-1606.05	188.99	805.37	0	-706.02	2	-1147.75	2	-179.24	2.35	-306.28
104	105	136.63	-1606.14	234.37	470.22	0	-984.74	2	-841.86	2	-138.33	2.35	-236.71
105	105	136.63	-1606.14	234.37	470.22	0	-813.75	2	-827.53	2	-199.95	2.35	-307.35
105	106	138.20	-1606.22	275.08	73.14	0	-1129.30	2	-498.13	2	-129.55	2.35	-199.26
106	106	138.20	-1095.98	246.77	405.64	0	-460.02	2	-741.84	2	-129.14	2.35	-198.85
106	107	139.78	-1095.98	221.72	23.40	0	-755.94	2	-454.66	2	-55.25	2.35	-85.46
107	107	139.78	-1095.98	221.72	23.40	0	-770.57	2	-399.43	2	-67.83	2.35	-104.39
107	108	141.35	-1096.92	202.16	-318.75	0	-1047.53	2	-99.50	2	-10.19	2.35	-15.98
108	108	141.35	-585.73	202.25	28.18	0	-362.29	2	-366.87	2	-10.19	2.35	-15.98
108	109	142.93	-585.73	207.93	-292.22	0	-631.01	2	-47.79	2	36.46	2.35	55.50
109	109	142.93	-585.73	207.93	-292.22	0	-631.01	2	-47.79	2	36.46	2.35	55.50
109	110	143.50	-585.73	198.54	-409.60	0	-731.07	2	75.19	2	52.36	2.35	79.86
110	110	143.50	-801.66	198.54	282.55	0	-157.46	2	-1251.74	2	52.36	2.35	79.86
110	111	144.50	-801.66	214.19	74.68	0	-337.03	2	-1024.89	2	78.75	2.35	120.25
111	1111	144.50	-801.66	-189.08	74.68	0	-337.03	2	-1024.89	2	78.75	2.35	120.25
111	112	145.50	-801.66	-178.95	258.95	0	-182.71	2	-1207.57	2	51.65	2.35	78.76
112	112	145.50	-476.41	-178.95	-356.68	0	-607.37	2	58.19	2	51.65	2.35	78.76
112	113	145.68	-476.41	-183.26	-325.09	0	-581.26	2	28.17	2	46.75	2.35	71.25
113	113	145.68	-476.41	-183.26	-325.09	0	-581.26	2	28.17	2	46.75	2.35	71.25
113	114	146.85	-476.41	-186.36	-109.35	0	-405.63	2	-166.54	2	11.28	2.35	16.90
114	114	146.85	-878.82	-186.16	-381.93	0	-944.53	2	43.03	2	11.28	2.35	16.90
114	115	148.03	-877.89	-214.14	-149.06	0	-760.75	2	-142.32	2	-31.72	2.35	-49.04

CÁLCULO TENSIONAL

Hipótesis de cálculo:

FREC1.IPF75B.EnvTrenGen.MZ+.To.MZ+

Cuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+

[... Vigas * [95; 1.05]Base1 ISO To + [1; 1]Prelosas + [1; 1]HBCV + [9; 1.1]Base4.ISO.To + [.9; 1.1]Base4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ+ + [0; .3]P...

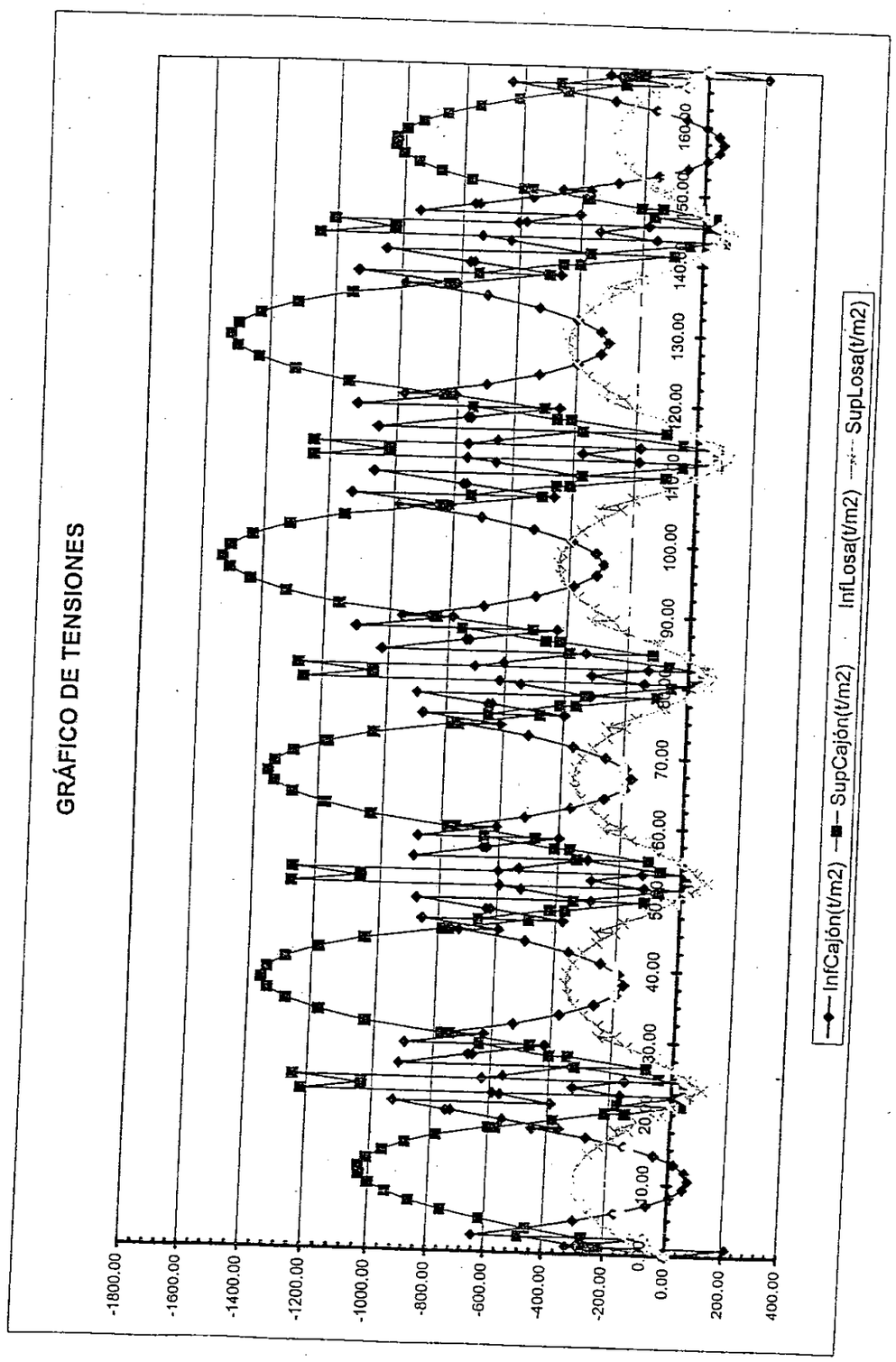
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.89	-214.14	-149.06	0	-743.19	2	-207.82	2	-16.93	2.35	-26.71
115	116	149.20	-877.89	-186.14	88.69	0	-561.56	2	-377.24	2	-64.94	2.35	-100.33
116	116	149.20	-877.35	-206.95	88.81	0	-560.75	2	-376.77	2	-65.17	2.35	-100.56
116	117	150.38	-877.62	-202.26	327.99	0	-373.00	2	-566.96	2	-109.53	2.35	-168.57
117	117	150.38	-877.62	-202.26	327.99	0	-462.59	2	-595.14	2	-74.51	2.35	-128.38
117	118	151.55	-877.56	-171.93	551.20	0	-282.41	2	-774.93	2	-104.66	2.35	-179.51
118	118	151.55	-877.27	-151.22	551.09	0	-282.88	2	-775.04	2	-104.26	2.35	-179.11
118	119	152.73	-877.27	-121.02	713.79	0	-157.79	2	-878.10	2	-129.40	2.35	-221.66
119	119	152.73	-877.27	-121.02	713.79	0	-157.79	2	-878.10	2	-129.40	2.35	-221.66
119	120	153.90	-877.27	-95.14	840.07	0	-61.49	2	-954.58	2	-149.37	2.35	-255.45
120	120	153.90	-877.27	-95.14	840.07	0	-61.49	2	-954.58	2	-149.37	2.35	-255.45
120	121	155.08	-877.27	-60.84	931.96	0	7.39	2	-1004.93	2	-164.55	2.35	-281.11
121	121	155.08	-877.27	-60.84	931.96	0	7.39	2	-1004.93	2	-164.55	2.35	-281.11
121	122	156.25	-877.27	-34.62	988.08	0	47.91	2	-1028.85	2	-174.69	2.35	-298.19
122	122	156.25	-877.27	-34.62	988.08	0	47.91	2	-1028.85	2	-174.69	2.35	-298.19
122	123	157.43	-877.27	0.27	1009.74	0	60.97	2	-1026.66	2	-180.03	2.35	-307.13
123	123	157.43	-877.27	0.27	1009.74	0	60.97	2	-1026.66	2	-180.03	2.35	-307.13
123	124	158.60	-877.27	25.56	994.13	0	44.67	2	-997.71	2	-180.04	2.35	-307.00
124	124	158.60	-877.27	25.56	994.13	0	44.67	2	-997.71	2	-180.04	2.35	-307.00
24	125	159.78	-877.27	55.88	943.35	0	0.41	2	-942.45	2	-175.11	2.35	-298.49
25	125	159.78	-877.27	55.88	943.35	0	0.41	2	-942.45	2	-175.11	2.35	-298.49
125	126	160.95	-877.27	86.08	857.65	0	-71.62	2	-860.97	2	-165.30	2.35	-281.68
126	126	160.95	-877.27	86.08	857.65	0	-71.62	2	-860.97	2	-165.30	2.35	-281.68
126	127	162.13	-877.27	121.33	735.75	0	-172.29	2	-752.97	2	-150.37	2.35	-256.16
127	127	162.13	-877.27	121.33	735.75	0	-172.29	2	-752.97	2	-150.37	2.35	-256.16
127	128	163.30	-877.27	151.75	577.40	0	-301.78	2	-618.38	2	-130.25	2.35	-221.84
128	128	163.30	-877.27	151.75	577.40	0	-301.78	2	-618.38	2	-130.25	2.35	-221.84
128	129	164.48	-877.27	182.08	384.10	0	-459.06	2	-457.58	2	-105.24	2.35	-179.21
129	129	164.48	-877.27	182.08	384.10	0	-459.06	2	-457.58	2	-105.24	2.35	-179.21
129	130	165.65	-877.27	212.29	156.49	0	-643.71	2	-270.64	2	-75.46	2.35	-128.49
130	130	165.65	-476.41	212.29	406.62	0	-72.52	2	-482.78	2	-75.46	2.35	-128.49
130	131	166.83	-476.41	242.53	141.96	0	-286.38	2	-269.17	2	-40.39	2.35	-68.77
131	131	166.83	-476.41	242.53	141.96	0	-286.38	2	-269.17	2	-40.39	2.35	-68.77
131	132	167.00	-476.41	247.08	99.38	0	-320.74	2	-235.03	2	-34.72	2.35	-59.11
132	132	167.00	0.00	247.08	262.65	0	212.49	2	-213.12	2	-34.72	2.35	-59.11
132	133	168.00	0.00	152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

04/09/01

Programa DINTEL IDEAM S.A.
FREC1.IPF75B.EnvTrenGen.MZ+.To.MZ+

combi_t0.xls



CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.To.MZ-

...ientes con gradiente. Dominante GRAD

...vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD

Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-131.86	142.41	0	131.15	2	-186.38	2	-11.46	2.35	-19.41
2	2	1.00	-526.55	-131.86	-38.05	0	-458.21	2	-210.60	2	-11.46	2.35	-19.41
2	3	1.18	-526.55	-129.37	-15.20	0	-437.21	2	-240.31	2	-13.32	2.35	-22.56
3	3	1.18	-526.55	-129.37	-15.20	0	-437.21	2	-240.31	2	-13.32	2.35	-22.56
3	4	2.35	-526.55	-112.51	126.89	0	-306.28	2	-426.61	2	-24.68	2.35	-41.82
4	4	2.35	-969.61	-112.51	-149.57	0	[-937.60]	2	-192.15	2	-24.68	2.35	-41.82
4	5	3.53	-969.61	-95.64	-27.28	0	-824.20	2	-355.63	2	-34.08	2.35	-57.77
5	5	3.53	-969.61	-95.64	-27.28	0	-824.20	2	-355.63	2	-34.08	2.35	-57.77
5	6	4.70	-969.61	-78.79	75.20	0	-728.38	2	-496.19	2	-41.51	2.35	-70.41
6	6	4.70	-969.61	-78.79	75.20	0	-728.38	2	-496.19	2	-41.51	2.35	-70.41
6	7	5.88	-969.61	-61.93	157.88	0	-650.08	2	-613.92	2	-46.99	2.35	-79.74
7	7	5.88	-969.61	-61.93	157.88	0	-650.08	2	-613.92	2	-46.99	2.35	-79.74
7	8	7.05	-969.61	-45.08	220.77	0	-589.34	2	-708.76	2	-50.50	2.35	-85.77
8	8	7.05	-969.61	-45.08	220.77	0	-589.34	2	-708.76	2	-50.50	2.35	-85.77
8	9	8.23	-969.61	-28.23	263.85	0	-546.15	2	-780.73	2	-52.05	2.35	-88.48
9	9	8.23	-969.61	-28.23	263.85	0	-546.15	2	-780.73	2	-52.05	2.35	-88.48
9	10	9.40	-969.61	-11.37	287.13	0	-520.51	2	-829.85	2	-51.64	2.35	-87.89
10	10	9.40	-969.61	-11.37	287.13	0	-520.51	2	-829.85	2	-51.64	2.35	-87.89
10	11	10.58	-969.61	5.47	290.58	0	-512.43	2	-856.07	2	-49.26	2.35	-83.99
11	11	10.58	-969.61	5.47	290.58	0	-512.43	2	-856.07	2	-49.26	2.35	-83.99
11	12	11.75	-969.61	22.35	274.24	0	-521.90	2	[-859.42]	2	-44.92	2.35	-76.78
12	12	11.75	-969.61	22.35	274.24	0	-521.90	2	-859.42	2	-44.92	2.35	-76.78
12	13	12.93	-969.61	39.19	238.10	0	-548.91	2	-839.91	2	-38.63	2.35	-66.26
13	13	12.93	-969.61	39.19	238.10	0	-548.91	2	-839.91	2	-38.63	2.35	-66.26
13	14	14.10	-969.61	56.05	182.15	0	-593.48	2	-797.54	2	-30.36	2.35	-52.43
14	14	14.10	-969.61	56.05	182.15	0	-593.48	2	-797.54	2	-30.36	2.35	-52.43
14	15	15.28	-969.61	72.90	106.40	0	-655.60	2	-732.27	2	-20.14	2.35	-35.30
15	15	15.28	-969.61	72.90	106.40	0	-655.60	2	-732.27	2	-20.14	2.35	-35.30
15	16	16.45	-969.61	89.76	10.82	0	-735.28	2	-644.13	2	-7.95	2.35	-14.85
16	16	16.45	-969.14	112.66	10.95	0	-734.53	2	-643.78	2	-8.14	2.35	-15.04
16	17	17.63	-969.04	129.52	-131.56	0	-861.13	2	-477.16	2	5.98	2.35	8.68
17	17	17.63	-969.04	129.52	-131.56	0	-752.46	2	-414.56	2	5.60	2.35	8.16
17	18	18.80	-969.23	171.63	-305.12	0	-897.98	2	-241.84	2	30.93	2.35	46.99
18	18	18.80	-970.37	148.65	-305.26	0	-899.01	2	-242.49	2	31.00	2.35	47.06
18	19	19.98	-970.37	168.59	-491.73	0	-1046.79	2	-89.44	2	64.79	2.35	98.82
19	19	19.98	-970.37	168.59	-491.73	0	-1068.22	2	-9.48	2	46.73	2.35	71.57
19	20	21.15	-971.31	188.51	-701.68	0	[-1237.10]	2	[-89.40]	2	83.19	2.35	127.46
20	20	21.15	-526.55	188.73	-400.41	0	-641.49	2	-62.24	2	83.19	2.35	127.46
20	21	22.33	-526.55	208.67	-633.90	0	-829.07	2	139.02	2	123.41	2.35	189.10
21	21	22.33	-526.55	208.67	-633.90	0	-829.07	2	139.02	2	123.41	2.35	189.10
21	22	22.50	-526.55	211.64	-670.68	0	-858.65	2	170.85	2	129.71	2.35	198.77
22	22	22.50	-655.90	211.64	-112.45	0	-367.26	2	-870.57	2	129.71	2.35	198.77
22	23	23.50	-655.90	234.04	-335.28	0	-547.24	2	-674.85	2	167.35	2.35	[256.47]
	1023	23.50	-655.90	-252.06	-335.28	0	-547.24	2	-674.85	2	167.35	2.35	256.47
	24	24.50	-655.90	-229.66	-94.42	0	-349.17	2	-899.76	2	129.37	2.35	198.24
24	24	24.50	-566.83	-229.66	-680.84	0	-895.44	2	164.20	2	129.37	2.35	198.24
25	25	24.95	-566.83	-222.03	-579.22	0	-812.11	2	70.21	2	113.16	2.35	173.40
25	26	26.40	-566.83	-222.03	-579.22	0	-812.11	2	70.21	2	113.16	2.35	173.40
26	26	26.40	-1051.20	-197.43	-275.13	0	-562.75	2	-211.07	2	64.67	2.35	99.06
26	27	27.85	-1050.27	-197.30	-603.80	0	-1211.99	2	[-217]	2	64.67	2.35	99.06
27	27	27.85	-1050.27	-172.70	-335.48	0	-991.35	2	-205.46	2	21.89	2.35	33.47
27	28	29.30	-1050.27	-172.70	-335.48	0	-970.60	2	-283.75	2	39.73	2.35	60.29
28	28	29.30	-1452.04	-125.30	-120.34	0	-791.64	2	-492.43	2	7.27	2.35	10.57
28	29	30.75	-1452.17	-153.11	-382.80	0	[-1319.54]	2	-299.67	2	7.15	2.35	10.45
29	29	30.75	-1452.17	-132.30	-175.52	0	-1136.55	2	-541.26	2	-16.01	2.35	-25.03
29	30	32.20	-1452.26	-132.30	-175.52	0	[-1301.55]	2	-607.27	2	-9.25	2.35	-17.21
30	30	32.20	-1452.95	-111.50	1.60	0	-1136.68	2	-847.53	2	-22.86	2.35	-40.15
30	31	33.65	-1452.95	-83.70	1.46	0	-1137.50	2	-847.92	2	-22.74	2.35	-40.04
31	31	33.65	-1452.95	-62.89	107.75	0	-1043.45	2	-970.06	2	-33.39	2.35	-57.97
31	32	35.10	-1452.95	-62.89	107.75	0	-1043.45	2	-970.06	2	-33.39	2.35	-57.97
32	32	35.10	-1452.95	-42.10	183.86	0	-976.14	2	-1057.34	2	-41.05	2.35	-70.86
32	33	36.55	-1452.95	-42.10	183.86	0	-976.14	2	-1057.34	2	-41.05	2.35	-70.86
33	33	36.55	-1452.95	-21.29	229.80	0	-935.56	2	-1109.80	2	-45.71	2.35	-78.70
33	34	38.00	-1452.95	-21.29	229.80	0	-935.56	2	-1109.80	2	-45.71	2.35	-78.70
34	34	38.00	-1452.95	-0.50	245.61	0	-921.69	2	[-1127.45]	2	-47.40	2.35	-81.52
34	35	39.45	-1452.95	-0.50	245.61	0	-921.69	2	-1127.45	2	-47.40	2.35	-81.52
35	35	39.45	-1452.95	20.31	231.24	0	-934.57	2	-1110.24	2	-46.09	2.35	-79.30
35	36	40.90	-1452.95	20.31	231.24	0	-934.57	2	-1110.24	2	-46.09	2.35	-79.30
36	36	40.90	-1452.95	41.12	186.72	0	-974.16	2	-1058.20	2	-41.80	2.35	-72.04
36	37	42.35	-1452.95	41.12	186.72	0	-974.16	2	-1058.20	2	-41.80	2.35	-72.04
37	37	42.35	-1452.95	61.91	112.03	0	-1040.49	2	-971.35	2	-34.51	2.35	-59.74
37	38	43.80	-1452.95	61.91	112.03	0	-1040.49	2	-971.35	2	-34.51	2.35	-59.74
38	38	43.80	-1452.26	82.72	7.19	0	-1133.54	2	-849.65	2	-24.24	2.35	-42.40
38	39	45.25	-1452.17	110.52	7.32	0	-1132.72	2	-849.26	2	-24.36	2.35	-42.51
				131.32	-168.36	0	[-1296.60]	2	-609.43	2	-11.12	2.35	-20.17

combi_t0.xls

Programa DINTEL IDEAM S.A.
FREC1.GRAD.To.MZ-

04/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.To.MZ-

Frecuentes con gradiente. Dominante GRAD

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [9; .6]GRAD

oef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1452.17	131.32	-168.36	0	-1131.75	2	-543.83	2	-18.25	2.35	-28.39
39	40	46.70	-1452.04	152.13	-374.20	0	[-1313.78]	2	-302.77	2	4.46	2.35	6.41
40	40	46.70	-1050.07	124.34	-111.74	0	-785.80	2	-495.46	2	4.65	2.35	6.59
40	41	48.15	-1050.07	171.78	-325.83	0	-964.06	2	-287.17	2	36.76	2.35	55.81
41	41	48.15	-1050.07	171.78	-325.83	0	-981.25	2	-222.07	2	21.88	2.35	33.47
41	42	49.60	-1051.01	196.40	-592.77	0	-1200.46	2	[-23.16]	2	64.66	2.35	99.05
42	42	49.60	-566.83	196.48	-264.10	0	-551.35	2	-230.20	2	64.66	2.35	99.05
42	43	51.05	-566.83	221.07	-566.80	0	-799.27	2	48.68	2	113.15	2.35	173.38
43	43	51.05	-566.83	221.07	-566.80	0	-799.27	2	48.68	2	113.15	2.35	173.38
43	44	51.50	-566.83	228.71	-668.00	0	-882.17	2	141.94	2	129.35	2.35	198.23
44	44	51.50	-655.90	228.71	-81.58	0	-335.90	2	-922.01	2	129.35	2.35	198.23
44	45	52.50	-655.90	251.10	-321.49	0	-532.99	2	-698.76	2	167.34	2.35	[256.46]
45	1045	52.50	-655.90	-249.73	-321.49	0	-532.99	2	-698.76	2	167.34	2.35	256.46
45	46	53.50	-655.90	-227.32	-82.97	0	-336.69	2	-922.09	2	129.85	2.35	198.99
46	46	53.50	-566.83	-227.32	-669.40	0	-882.95	2	141.86	2	129.85	2.35	198.99
46	47	53.95	-566.83	-219.68	-568.81	0	-800.40	2	48.57	2	113.87	2.35	174.49
47	47	53.95	-566.83	-219.68	-568.81	0	-800.40	2	48.57	2	113.87	2.35	174.49
47	48	55.40	-566.83	-195.08	-268.13	0	-553.62	2	-230.40	2	66.10	2.35	101.25
48	48	55.40	-1051.08	-194.98	-596.80	0	-1202.77	2	[-22.91]	2	66.10	2.35	101.25
48	49	56.85	-1050.15	-170.37	-331.87	0	-984.69	2	-222.44	2	24.03	2.35	36.77
49	49	56.85	-1050.15	-170.37	-331.87	0	-968.07	2	-285.30	2	38.38	2.35	58.33
49	50	58.30	-1050.15	-123.39	-117.06	0	-789.33	2	-493.83	2	6.06	2.35	8.79
50	50	58.30	-1452.04	-151.21	-379.52	0	[-1317.28]	2	-301.11	2	5.90	2.35	8.63
50	51	59.75	-1452.16	-130.41	-175.00	0	-1136.12	2	-541.76	2	-16.45	2.35	-25.61
51	51	59.75	-1452.16	-130.41	-175.00	0	-1301.06	2	-608.05	2	-9.92	2.35	-18.07
51	52	61.20	-1452.24	-109.60	-0.64	0	-1138.08	2	-847.59	2	-22.91	2.35	-40.00
52	52	61.20	-1452.95	-81.80	-0.77	0	-1138.90	2	-847.99	2	-22.80	2.35	-39.89
52	53	62.65	-1452.95	-60.99	102.75	0	-1046.74	2	-969.42	2	-32.84	2.35	-56.82
53	53	62.65	-1452.95	-60.99	102.75	0	-1046.74	2	-969.42	2	-32.84	2.35	-56.82
53	54	64.10	-1452.95	-40.19	176.09	0	-981.32	2	-1055.99	2	-39.88	2.35	-68.69
54	54	64.10	-1452.95	-40.19	176.09	0	-981.32	2	-1055.99	2	-39.88	2.35	-68.69
54	55	65.55	-1452.95	-19.38	219.30	0	-942.61	2	-1107.75	2	-43.93	2.35	-75.54
55	55	65.55	-1452.95	-19.38	219.30	0	-942.61	2	-1107.75	2	-43.93	2.35	-75.54
55	56	67.00	-1452.95	1.42	232.34	0	-930.63	2	[-1124.69]	2	-45.00	2.35	-77.35
56	56	67.00	-1452.95	1.42	232.34	0	-930.63	2	-1124.69	2	-45.00	2.35	-77.35
56	57	68.45	-1452.95	22.21	215.21	0	-945.39	2	-1106.77	2	-43.08	2.35	-74.11
57	57	68.45	-1452.95	22.21	215.21	0	-945.39	2	-1106.77	2	-43.08	2.35	-74.11
57	58	69.90	-1452.95	43.01	167.93	0	-986.87	2	-1054.02	2	-38.17	2.35	-65.85
58	58	69.90	-1452.95	43.01	167.93	0	-986.87	2	-1054.02	2	-38.17	2.35	-65.85
58	59	71.35	-1452.95	63.81	90.50	0	-1055.07	2	-966.47	2	-30.27	2.35	-52.54
59	59	71.35	-1452.95	63.81	90.50	0	-1055.07	2	-966.47	2	-30.27	2.35	-52.54
59	60	72.80	-1452.95	84.61	-17.12	0	-1150.02	2	-844.05	2	-19.38	2.35	-34.19
60	60	72.80	-1452.27	112.42	-16.98	0	-1149.20	2	-843.67	2	-19.50	2.35	-34.30
60	61	74.25	-1452.18	133.22	-195.42	0	-1314.96	2	-603.14	2	-5.66	2.35	-10.95
61	61	74.25	-1452.18	133.22	-195.42	0	-1149.66	2	-535.05	2	-10.62	2.35	-16.71
61	62	75.70	-1452.05	154.02	-404.03	0	[-1333.62]	2	-293.05	2	12.90	2.35	19.32
62	62	75.70	-1050.19	126.22	-141.57	0	-805.58	2	-485.78	2	13.05	2.35	19.48
62	63	77.15	-1050.19	174.09	-369.67	0	-993.11	2	-272.97	2	49.09	2.35	74.72
63	63	77.15	-1050.19	174.09	-369.67	0	-1010.50	2	-207.27	2	34.11	2.35	52.20
63	64	78.60	-1051.13	198.70	-640.00	0	-1232.26	2	[-140.25]	2	77.61	2.35	118.88
64	64	78.60	-566.83	198.80	-311.33	0	-583.07	2	-213.04	2	77.61	2.35	118.88
64	65	80.05	-566.83	223.42	-617.41	0	-833.55	2	68.12	2	126.82	2.35	194.32
65	65	80.05	-566.83	223.42	-617.41	0	-833.55	2	68.12	2	126.82	2.35	194.32
65	66	80.50	-566.83	231.04	-719.66	0	-917.23	2	162.08	2	143.25	2.35	219.50
66	66	80.50	-655.90	231.04	-133.24	0	-370.97	2	-901.87	2	143.25	2.35	219.50
66	67	81.50	-655.90	253.45	-375.50	0	-569.81	2	-677.05	2	181.73	2.35	[278.50]
67	1067	81.50	-655.90	-270.68	-375.50	0	-569.81	2	-677.05	2	181.73	2.35	278.50
67	68	82.50	-655.90	-248.27	-116.02	0	-356.23	2	-920.12	2	140.97	2.35	216.02
68	68	82.50	-647.39	-248.27	-758.83	0	-1012.25	2	188.91	2	140.97	2.35	216.02
68	69	83.08	-647.39	-238.52	-618.87	0	-897.34	2	58.91	2	118.77	2.35	181.98
69	69	83.08	-647.39	-238.52	-618.87	0	-897.34	2	58.91	2	118.77	2.35	181.98
69	70	84.65	-647.39	-211.79	-264.29	0	-606.17	2	-270.61	2	62.54	2.35	95.78
70	70	84.65	-1212.23	-211.69	-647.74	0	[-1363.45]	2	[-25.00]	2	62.54	2.35	95.78
70	71	86.23	-1211.30	-184.96	-335.29	0	-1106.23	2	-265.00	2	13.04	2.35	19.90
71	71	86.23	-1211.30	-184.96	-335.29	0	-1090.66	2	-323.81	2	26.45	2.35	40.06
71	72	87.80	-1211.30	-134.02	-97.02	0	-889.79	2	-564.99	2	-7.48	2.35	-11.94
72	72	87.80	-1774.25	-165.31	-464.52	0	[-1629.26]	2	-295.36	2	-7.63	2.35	-12.09
72	73	89.38	-1774.37	-142.71	-221.54	0	-1414.76	2	-582.19	2	-34.00	2.35	-52.50
73	73	89.38	-1774.37	-142.71	-221.54	0	[-1617.67]	2	-640.84	2	-22.52	2.35	-39.29
73	74	90.95	-1774.45	-120.11	-14.14	0	-1423.51	2	-926.94	2	-37.86	2.35	-65.18
74	74	90.95	-1775.17	-88.84	-14.29	0	-1424.35	2	-927.32	2	-37.76	2.35	-65.08
74	75	92.53	-1775.17	-66.24	107.84	0	-1315.62	2	-1070.60	2	-49.61	2.35	-85.06
75	75	92.53	-1775.17	-66.24	107.84	0	-1315.62	2	-1070.60	2	-49.61	2.35	-85.06
75	76	94.10	-1775.17	-43.64	194.38	0	-1238.42	2	-1172.78	2	-57.94	2.35	-99.10
76	76	94.10	-1775.17	-43.64	194.38	0	-1238.42	2	-1172.78	2	-57.94	2.35	-99.10
76	77	95.68	-1775.17	-21.06	245.33	0	-1192.77	2	-1233.85	2	-62.74	2.35	-107.19

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.To.MZ-

...uentes con gradiente. Dominante GRAD

(... ...as * [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 6]GRAD

Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1775.17	-21.06	245.33	0	-1192.77	2	-1233.85	2	-62.74	2.35	-107.19
77	78	97.25	-1775.17	1.53	260.67	0	-1178.67	2	-1253.82	2	-64.01	2.35	-109.33
78	78	97.25	-1775.17	1.53	260.67	0	-1178.67	2	-1253.82	2	-64.01	2.35	-109.33
78	79	98.83	-1775.17	24.13	240.47	0	-1196.07	2	-1232.72	2	-61.76	2.35	-105.54
79	79	98.83	-1775.17	24.13	240.47	0	-1196.07	2	-1232.72	2	-61.76	2.35	-105.54
79	80	100.40	-1775.17	46.71	184.68	0	-1245.01	2	-1170.53	2	-55.98	2.35	-95.80
80	80	100.40	-1775.17	46.71	184.68	0	-1245.01	2	-1170.53	2	-55.98	2.35	-95.80
80	81	101.98	-1775.17	69.31	93.28	0	-1325.50	2	-1067.22	2	-46.67	2.35	-80.11
81	81	101.98	-1775.17	69.31	93.28	0	-1325.50	2	-1067.22	2	-46.67	2.35	-80.11
81	82	103.55	-1775.17	91.91	-33.68	0	-1437.51	2	-922.82	2	-33.85	2.35	-58.48
82	82	103.55	-1774.48	123.18	-33.53	0	-1436.67	2	-922.44	2	-33.96	2.35	-58.60
82	83	105.13	-1774.40	145.77	-245.78	0	-1634.12	2	-635.22	2	-17.64	2.35	-31.06
83	83	105.13	-1774.40	145.77	-245.78	0	-1429.80	2	-574.34	2	-27.18	2.35	-42.04
83	84	106.70	-1774.27	168.38	-493.61	0	-1648.51	2	-285.92	2	0.57	2.35	0.47
84	84	106.70	-1211.26	137.11	-126.11	0	-909.02	2	-555.53	2	0.73	2.35	0.64
84	85	108.28	-1211.26	189.20	-381.89	0	-1121.45	2	-308.74	2	39.55	2.35	60.12
85	85	108.28	-1211.26	189.20	-381.89	0	-1136.26	2	-252.71	2	26.76	2.35	40.90
85	86	109.85	-1212.20	215.92	-700.99	0	-1397.78	2	39.02	2	78.22	2.35	119.79
86	86	109.85	-647.39	216.00	-317.54	0	-640.53	2	-256.62	2	78.22	2.35	119.79
86	87	111.43	-647.39	242.74	-678.79	0	-935.99	2	74.66	2	136.40	2.35	208.99
87	87	111.43	-647.39	242.74	-678.79	0	-935.99	2	74.66	2	136.40	2.35	208.99
87	88	112.00	-647.39	252.48	-821.20	0	-1052.49	2	205.33	2	159.33	2.35	244.13
88	88	112.00	-655.90	252.48	-178.39	0	-396.48	2	-903.70	2	159.33	2.35	244.13
88	89	113.00	-655.90	274.91	-442.06	0	-612.76	2	-659.56	2	201.33	2.35	308.52
89	1089	113.00	-655.90	-274.85	-442.06	0	-612.76	2	-659.56	2	201.33	2.35	308.52
89	90	114.00	-655.90	-252.42	-178.42	0	-396.61	2	-903.26	2	159.25	2.35	244.01
90	90	114.00	-647.39	-252.42	-821.23	0	-1052.63	2	205.77	2	159.25	2.35	244.01
90	91	114.58	-647.39	-242.67	-678.91	0	-936.27	2	75.43	2	136.29	2.35	208.82
91	91	114.58	-647.39	-242.67	-678.91	0	-936.27	2	75.43	2	136.29	2.35	208.82
91	92	116.15	-647.39	-215.93	-317.75	0	-641.04	2	-255.10	2	77.99	2.35	119.43
92	92	116.15	-1212.13	-215.85	-701.19	0	-1398.26	2	40.57	2	77.99	2.35	119.43
92	93	117.73	-1211.20	-189.13	-382.20	0	-1137.00	2	-250.41	2	26.42	2.35	40.38
93	93	117.73	-1211.20	-189.13	-382.20	0	-1121.65	2	-308.56	2	39.70	2.35	60.33
93	94	119.30	-1211.20	-136.96	-127.04	0	-909.63	2	-555.13	2	1.07	2.35	1.13
94	94	119.30	-1774.27	-168.23	-494.54	0	-1649.14	2	-285.55	2	0.89	2.35	0.95
94	95	120.88	-1774.40	-145.62	-246.95	0	-1430.60	2	-573.87	2	-26.77	2.35	-41.44
95	95	120.88	-1774.40	-145.62	-246.95	0	-1634.94	2	-634.77	2	-17.25	2.35	-30.48
95	96	122.45	-1774.49	-123.03	-34.90	0	-1437.64	2	-921.94	2	-33.51	2.35	-57.91
96	96	122.45	-1775.17	-91.76	-35.05	0	-1438.47	2	-922.31	2	-33.39	2.35	-57.79
96	97	124.03	-1775.17	-69.16	91.70	0	-1326.61	2	-1066.62	2	-46.14	2.35	-79.31
97	97	124.03	-1775.17	-69.16	91.70	0	-1326.61	2	-1066.62	2	-46.14	2.35	-79.31
97	98	125.60	-1775.17	-46.56	182.83	0	-1246.31	2	-1169.81	2	-55.36	2.35	-94.87
98	98	125.60	-1775.17	-46.56	182.83	0	-1246.31	2	-1169.81	2	-55.36	2.35	-94.87
98	99	127.18	-1775.17	-23.98	238.42	0	-1197.51	2	-1231.96	2	-61.06	2.35	-104.50
99	99	127.18	-1775.17	-23.98	238.42	0	-1197.51	2	-1231.96	2	-61.06	2.35	-104.50
99	100	128.75	-1775.17	-1.38	258.41	0	-1180.26	2	-1252.97	2	-63.24	2.35	-108.19
100	100	128.75	-1775.17	-1.38	258.41	0	-1180.26	2	-1252.97	2	-63.24	2.35	-108.19
100	101	130.33	-1775.17	21.21	242.82	0	-1194.54	2	-1232.91	2	-61.89	2.35	-105.92
101	101	130.33	-1775.17	21.21	242.82	0	-1194.54	2	-1232.91	2	-61.89	2.35	-105.92
101	102	131.90	-1775.17	43.79	191.62	0	-1240.38	2	-1171.72	2	-57.01	2.35	-97.71
102	102	131.90	-1775.17	43.79	191.62	0	-1240.38	2	-1171.72	2	-57.01	2.35	-97.71
102	103	133.48	-1775.17	66.39	104.85	0	-1317.73	2	-1069.45	2	-48.61	2.35	-83.57
103	103	133.48	-1775.17	66.39	104.85	0	-1317.73	2	-1069.45	2	-48.61	2.35	-83.57
103	104	135.05	-1775.17	88.99	-17.49	0	-1426.62	2	-926.10	2	-36.68	2.35	-63.47
104	104	135.05	-1774.45	120.26	-17.35	0	-1425.77	2	-925.72	2	-36.79	2.35	-63.57
104	105	136.63	-1774.35	142.86	-225.00	0	-1620.11	2	-639.50	2	-21.36	2.35	-37.56
105	105	136.63	-1774.35	142.86	-225.00	0	-1416.11	2	-580.79	2	-32.79	2.35	-50.71
105	106	138.20	-1774.25	165.46	-468.22	0	-1631.76	2	-293.87	2	-6.33	2.35	-10.18
106	106	138.20	-1211.36	134.17	-100.72	0	-892.33	2	-563.51	2	-6.20	2.35	-10.05
106	107	139.78	-1211.36	185.04	-337.12	0	-1091.97	2	-322.92	2	27.23	2.35	41.17
107	107	139.78	-1211.36	185.04	-337.12	0	-1110.73	2	-252.12	2	11.10	2.35	16.91
107	108	141.35	-1212.30	211.76	-649.67	0	-1368.22	2	38.62	2	60.48	2.35	92.62
108	108	141.35	-647.39	211.85	-266.23	0	-610.89	2	-256.94	2	60.48	2.35	92.62
108	109	142.93	-647.39	238.59	-620.94	0	-902.35	2	73.37	2	116.60	2.35	178.65
109	109	142.93	-647.39	238.59	-620.94	0	-902.35	2	73.37	2	116.60	2.35	178.65
109	110	143.50	-647.39	248.34	-760.96	0	-1017.37	2	203.67	2	138.76	2.35	212.63
110	110	143.50	-655.90	248.34	-118.15	0	-361.36	2	-905.36	2	138.76	2.35	212.63
110	111	144.50	-655.90	270.75	-377.67	0	-575.08	2	-661.84	2	179.44	2.35	274.99
111	1111	144.50	-655.90	-235.86	-377.67	0	-575.08	2	-661.84	2	179.44	2.35	274.99
111	112	145.50	-655.90	-213.45	-152.99	0	-393.88	2	-858.14	2	141.28	2.35	216.49
112	112	145.50	-526.55	-213.45	-711.22	0	-885.27	2	183.27	2	141.28	2.35	216.49
112	113	145.68	-526.55	-210.48	-674.17	0	-855.52	2	151.39	2	134.89	2.35	206.69
113	113	145.68	-526.55	-210.48	-674.17	0	-855.52	2	151.39	2	134.89	2.35	206.69
113	114	146.85	-526.55	-190.55	-438.57	0	-666.56	2	-50.51	2	94.07	2.35	144.13
114	114	146.85	-971.30	-190.33	-739.85	0	-1262.16	2	181.14	2	94.07	2.35	144.13
114	115	148.03	-970.37	-170.38	-527.75	0	-1091.88	2	-1.59	2	57.00	2.35	87.30

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.To.MZ-

Frecuentes con gradiente. Dominante GRAD

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 6]GRAD

Coef. exc

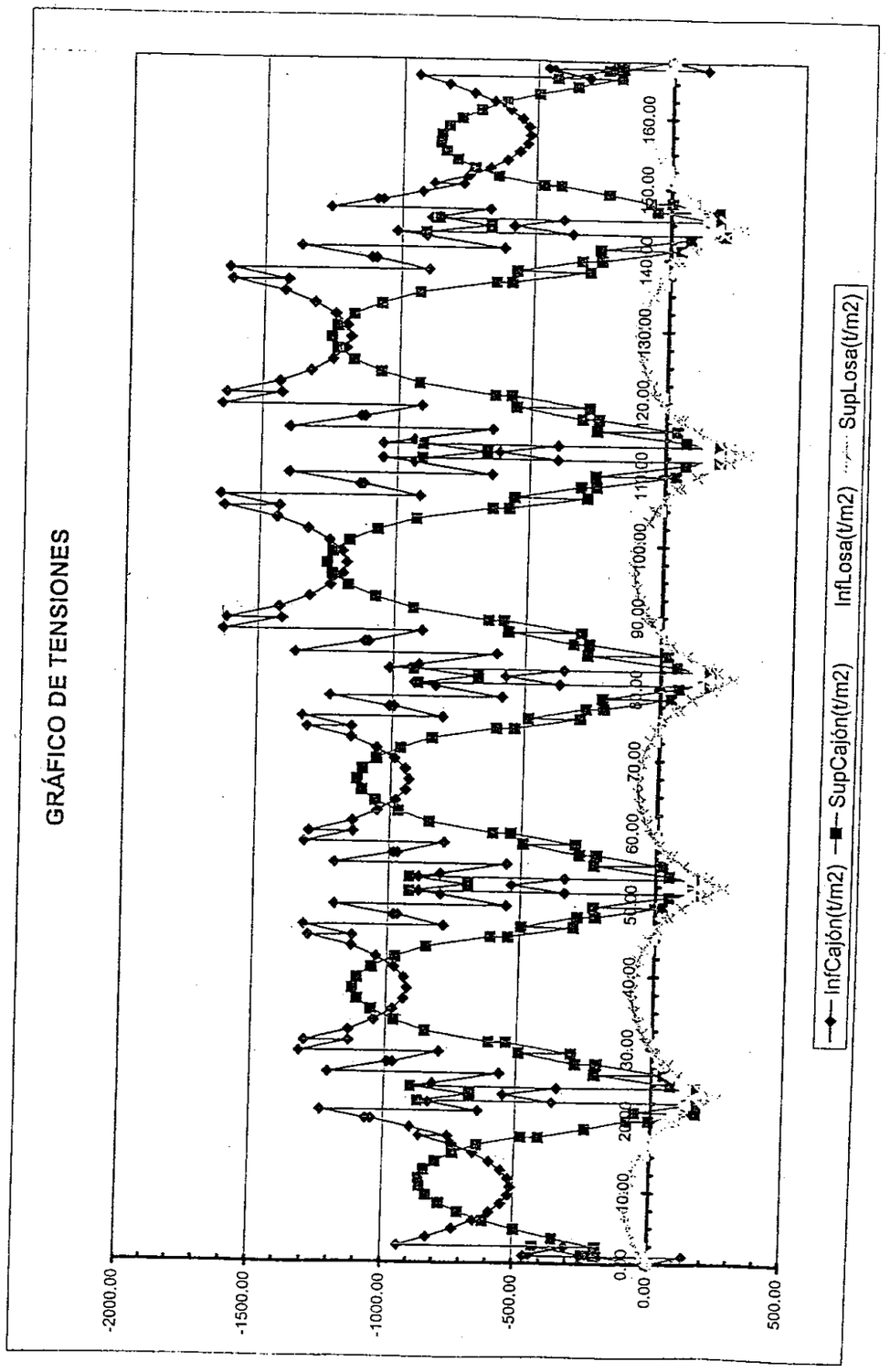
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-970.37	-170.38	-527.75	0	-1070.61	2	-77.77	2	74.93	2.35	114.35
115	116	149.20	-970.37	-150.42	-339.16	0	-921.43	2	-231.51	2	40.54	2.35	61.67
116	116	149.20	-969.24	-173.43	-339.02	0	-920.40	2	-230.87	2	40.46	2.35	61.60
116	117	150.38	-969.06	-130.84	-154.92	0	-767.92	2	-406.96	2	12.20	2.35	18.26
117	117	150.38	-969.06	-130.84	-154.92	0	-876.99	2	-471.70	2	10.73	2.35	16.67
117	118	151.55	-969.17	-113.98	-10.85	0	-749.34	2	-638.68	2	-3.71	2.35	-7.59
118	118	151.55	-969.61	-91.09	-10.97	0	-750.07	2	-639.02	2	-3.52	2.35	-7.39
118	119	152.73	-969.61	-74.23	86.15	0	-669.34	2	-727.53	2	-16.02	2.35	-28.37
119	119	152.73	-969.61	-74.23	86.15	0	-669.34	2	-727.53	2	-16.02	2.35	-28.37
119	120	153.90	-969.61	-57.37	163.46	0	-606.17	2	-793.16	2	-26.56	2.35	-46.03
120	120	153.90	-969.61	-57.37	163.46	0	-606.17	2	-793.16	2	-26.56	2.35	-46.03
120	121	155.08	-969.61	-40.51	220.97	0	-560.54	2	-835.90	2	-35.14	2.35	-60.40
121	121	155.08	-969.61	-40.51	220.97	0	-560.54	2	-835.90	2	-35.14	2.35	-60.40
121	122	156.25	-969.61	-23.67	258.67	0	-532.47	2	-855.77	2	-41.76	2.35	-71.45
122	122	156.25	-969.61	-23.67	258.67	0	-532.47	2	-855.77	2	-41.76	2.35	-71.45
122	123	157.43	-969.61	-6.81	276.57	0	-521.94	2	-852.78	2	-46.41	2.35	-79.19
123	123	157.43	-969.61	-6.81	276.57	0	-521.94	2	-852.78	2	-46.41	2.35	-79.19
123	124	158.60	-969.61	10.04	274.66	0	-528.97	2	-826.92	2	-49.10	2.35	-83.62
124	124	158.60	-969.61	10.04	274.66	0	-528.97	2	-826.92	2	-49.10	2.35	-83.62
124	125	159.78	-969.61	26.89	252.95	0	-553.55	2	-778.18	2	-49.83	2.35	-84.76
125	125	159.78	-969.61	26.89	252.95	0	-553.55	2	-778.18	2	-49.83	2.35	-84.76
125	126	160.95	-969.61	43.75	211.42	0	-595.69	2	-706.57	2	-48.60	2.35	-82.57
126	126	160.95	-969.61	43.75	211.42	0	-595.69	2	-706.57	2	-48.60	2.35	-82.57
126	127	162.13	-969.61	60.61	150.11	0	-655.36	2	-612.10	2	-45.41	2.35	-77.08
127	127	162.13	-969.61	60.61	150.11	0	-655.36	2	-612.10	2	-45.41	2.35	-77.08
127	128	163.30	-969.61	77.47	68.98	0	-732.60	2	-494.73	2	-40.25	2.35	-68.28
128	128	163.30	-969.61	77.47	68.98	0	-732.60	2	-494.73	2	-40.25	2.35	-68.28
128	129	164.48	-969.61	94.32	-31.94	0	-827.37	2	-354.53	2	-33.13	2.35	-56.17
129	129	164.48	-969.61	94.32	-31.94	0	-827.37	2	-354.53	2	-33.13	2.35	-56.17
129	130	165.65	-969.61	111.19	-152.69	0	-939.71	2	-191.42	2	-24.05	2.35	-40.76
130	130	165.65	-526.55	111.19	123.78	0	-308.39	2	-425.88	2	-24.05	2.35	-40.76
130	131	166.83	-526.55	128.04	-16.75	0	-438.27	2	-239.94	2	-13.00	2.35	-22.03
131	131	166.83	-526.55	128.04	-16.75	0	-438.27	2	-239.94	2	-13.00	2.35	-22.03
131	132	167.00	-526.55	130.55	-39.41	0	-459.14	2	-210.24	2	-11.19	2.35	-18.95
132	132	167.00	0.00	130.55	141.05	0	130.22	2	-186.03	2	-11.19	2.35	-18.95
132	133	168.00	0.00	152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.IPF75B.EnvTrenGen.MZ-.To.MZ-
Frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-

. 1]Pvigas + [.85; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ- + [0; .3]PAS
ef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-116.23	126.78	0	120.57	2	-182.90	2	-8.44	2.35	-14.25
2	2	1.00	-526.55	-116.23	-53.69	0	-468.79	2	-207.12	2	-8.44	2.35	-14.25
2	3	1.18	-526.55	-113.73	-33.57	0	-449.64	2	-236.22	2	-9.77	2.35	-16.50
3	3	1.18	-526.55	-113.73	-33.57	0	-449.64	2	-236.22	2	-9.77	2.35	-16.50
3	4	2.35	-526.55	-96.87	90.15	0	-331.13	2	-418.44	2	-17.58	2.35	-29.70
4	4	2.35	-969.61	-96.87	-186.31	0	-662.46	2	-183.98	2	-17.58	2.35	-29.70
4	5	3.53	-969.61	-80.00	-82.40	0	-861.49	2	-343.36	2	-23.43	2.35	-39.58
5	5	3.53	-969.61	-80.00	-82.40	0	-861.49	2	-343.36	2	-23.43	2.35	-39.58
5	6	4.70	-969.61	-63.15	1.71	0	-778.10	2	-479.84	2	-27.31	2.35	-46.16
6	6	4.70	-969.61	-63.15	1.71	0	-778.10	2	-479.84	2	-27.31	2.35	-46.16
6	7	5.88	-969.61	-46.30	66.02	0	-712.24	2	-593.48	2	-29.23	2.35	-49.43
7	7	5.88	-969.61	-46.30	66.02	0	-712.24	2	-593.48	2	-29.23	2.35	-49.43
7	8	7.05	-969.61	-29.44	110.54	0	-663.92	2	-684.23	2	-29.20	2.35	-49.40
8	8	7.05	-969.61	-29.44	110.54	0	-663.92	2	-684.23	2	-29.20	2.35	-49.40
8	9	8.23	-969.61	-12.60	135.23	0	-633.17	2	-752.11	2	-27.19	2.35	-46.05
9	9	8.23	-969.61	-12.60	135.23	0	-633.17	2	-752.11	2	-27.19	2.35	-46.05
9	10	9.40	-969.61	4.26	140.14	0	-619.95	2	-797.14	2	-23.23	2.35	-39.40
10	10	9.40	-969.61	4.26	140.14	0	-619.95	2	-797.14	2	-23.23	2.35	-39.40
10	11	10.58	-969.61	21.10	125.23	0	-624.30	2	-819.27	2	-17.31	2.35	-29.44
11	11	10.58	-969.61	21.10	125.23	0	-624.30	2	-819.27	2	-17.31	2.35	-29.44
11	12	11.75	-969.61	37.98	90.50	0	-646.21	2	-818.53	2	-9.42	2.35	-16.16
12	12	11.75	-969.61	37.98	90.50	0	-646.21	2	-818.53	2	-9.42	2.35	-16.16
12	13	12.93	-969.61	54.83	36.00	0	-685.64	2	-794.94	2	0.43	2.35	0.41
13	13	12.93	-969.61	54.83	36.00	0	-685.64	2	-794.94	2	0.43	2.35	0.41
13	14	14.10	-969.61	71.69	-38.33	0	-742.64	2	-748.48	2	12.25	2.35	20.31
14	14	14.10	-969.61	71.69	-38.33	0	-742.64	2	-748.48	2	12.25	2.35	20.31
14	15	15.28	-969.61	88.54	-132.46	0	-817.20	2	-679.12	2	26.02	2.35	43.50
15	15	15.28	-969.61	88.54	-132.46	0	-817.20	2	-679.12	2	26.02	2.35	43.50
15	16	16.45	-969.61	105.40	-246.41	0	-909.31	2	-586.89	2	41.76	2.35	70.01
16	16	16.45	-969.32	128.30	-246.28	0	-908.62	2	-586.60	2	41.52	2.35	69.77
16	17	17.63	-969.22	145.15	-407.16	0	-1047.65	2	-415.90	2	59.19	2.35	99.55
17	17	17.63	-969.22	145.15	-407.16	0	-934.48	2	-326.58	2	82.02	2.35	125.61
17	18	18.80	-969.41	187.26	-599.11	0	-1092.14	2	-147.98	2	112.45	2.35	172.28
18	18	18.80	-970.37	164.28	-599.25	0	-1093.11	2	-148.58	2	112.57	2.35	172.40
18	19	19.98	-970.37	193.71	-805.95	0	-1254.25	2	10.94	2	151.97	2.35	232.80
19	19	19.98	-970.37	193.71	-805.95	0	-1275.68	2	90.90	2	133.92	2.35	205.54
19	20	21.15	-971.31	247.46	-1068.23	0	-1479.10	2	286.49	2	184.89	2.35	283.74
20	20	21.15	-526.55	247.68	-766.95	0	-883.49	2	54.85	2	184.89	2.35	283.74
20	21	22.33	-526.55	308.32	-1094.81	0	-1133.38	2	286.26	2	251.29	2.35	385.61
21	21	22.33	-526.55	308.32	-1094.81	0	-1133.38	2	286.26	2	251.29	2.35	385.61
21	22	22.50	-526.55	319.44	-1149.96	0	-1175.09	2	323.96	2	262.69	2.35	403.12
22	22	22.50	-655.90	319.44	-591.73	0	-683.70	2	-717.46	2	262.69	2.35	403.12
22	23	23.50	-655.90	360.08	-931.33	0	-940.77	2	-484.45	2	332.73	2.35	510.60
23	1023	23.50	-655.90	-392.78	-931.33	0	-940.77	2	-484.45	2	332.73	2.35	510.60
23	24	24.50	-655.90	-347.07	-559.73	0	-656.39	2	-751.11	2	258.48	2.35	396.63
24	24	24.50	-566.83	-347.07	-1146.16	0	-1202.65	2	312.84	2	258.48	2.35	396.63
24	25	24.95	-566.83	-329.16	-992.05	0	-1084.67	2	202.09	2	227.71	2.35	349.41
25	25	24.95	-566.83	-329.16	-992.05	0	-1084.67	2	202.09	2	227.71	2.35	349.41
25	26	26.40	-566.83	-263.65	-558.68	0	-749.96	2	-120.49	2	143.35	2.35	219.95
26	26	26.40	-1051.20	-263.52	-887.35	0	-1399.20	2	132.75	2	143.35	2.35	219.95
26	27	27.85	-1050.27	-206.63	-548.36	0	-1131.91	2	-137.46	2	80.96	2.35	124.24
27	27	27.85	-1050.27	-206.63	-548.36	0	-1111.16	2	-215.74	2	98.79	2.35	151.06
27	28	29.30	-1050.27	-122.78	-310.85	0	-917.41	2	-431.57	2	60.13	2.35	91.79
28	28	29.30	-1452.02	-150.59	-573.31	0	-1445.31	2	-238.80	2	60.01	2.35	91.67
28	29	30.75	-1452.14	-129.78	-369.69	0	-1264.74	2	-479.22	2	37.87	2.35	57.76
29	29	30.75	-1452.14	-129.78	-369.69	0	-1432.91	2	-564.06	2	28.28	2.35	46.86
29	30	32.20	-1452.24	-108.98	-196.24	0	-1270.52	2	-803.50	2	15.38	2.35	25.12
30	30	32.20	-1452.95	-81.18	-196.38	0	-1271.35	2	-803.90	2	15.49	2.35	25.23
30	31	33.65	-1452.95	-60.37	-93.76	0	-1179.78	2	-925.22	2	5.55	2.35	8.51
31	31	33.65	-1452.95	-60.37	-93.76	0	-1179.78	2	-925.22	2	5.55	2.35	8.51
31	32	35.10	-1452.95	-39.58	-21.31	0	-1114.95	2	-1011.69	2	-1.40	2.35	-3.17
32	32	35.10	-1452.95	-39.58	-21.31	0	-1114.95	2	-1011.69	2	-1.40	2.35	-3.17
32	33	36.55	-1452.95	-18.76	20.96	0	-1076.85	2	-1063.33	2	-5.35	2.35	-9.81
33	33	36.55	-1452.95	-18.76	20.96	0	-1076.85	2	-1063.33	2	-5.35	2.35	-9.81
33	34	38.00	-1452.95	5.57	28.75	0	-1068.40	2	-1079.20	2	-5.49	2.35	-9.98
34	34	38.00	-1452.95	5.57	28.75	0	-1068.40	2	-1079.20	2	-5.49	2.35	-9.98
34	35	39.45	-1452.95	26.38	5.57	0	-1087.24	2	-1060.02	2	-2.48	2.35	-4.85
35	35	39.45	-1452.95	26.38	5.57	0	-1087.24	2	-1060.02	2	-2.48	2.35	-4.85
35	36	40.90	-1452.95	47.19	-47.75	0	-1132.79	2	-1006.03	2	3.51	2.35	5.31
36	36	40.90	-1452.95	47.19	-47.75	0	-1132.79	2	-1006.03	2	3.51	2.35	5.31
36	37	42.35	-1452.95	67.98	-131.24	0	-1205.07	2	-917.22	2	12.50	2.35	20.52
37	37	42.35	-1452.95	67.98	-131.24	0	-1205.07	2	-917.22	2	12.50	2.35	20.52
37	38	43.80	-1452.95	88.79	-244.89	0	-1304.08	2	-793.56	2	24.47	2.35	40.76
38	38	43.80	-1452.32	116.59	-244.75	0	-1303.28	2	-793.19	2	24.34	2.35	40.63
38	39	45.25	-1452.22	137.39	-429.23	0	-1473.11	2	-551.40	2	39.27	2.35	65.88



CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.IPF75B.EnvTrenGen.MZ-.To.MZ-
...cuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-

...vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.HIP.To + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ- + [0; .3]PAS

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1452.22	137.39	-429.23	0	-1304.01	2	-460.52	2	54.12	2.35	82.82
39	40	46.70	-1452.10	158.20	-643.88	0	-1491.85	2	-216.64	2	79.27	2.35	121.37
40	40	46.70	-1050.07	130.41	-381.42	0	-963.85	2	-409.31	2	79.47	2.35	121.57
40	41	48.15	-1050.07	198.08	-615.12	0	-1155.06	2	-194.75	2	117.02	2.35	179.15
41	41	48.15	-1050.07	198.08	-615.12	0	-1172.25	2	-129.66	2	102.14	2.35	156.81
41	42	49.60	-1051.01	255.18	-946.05	0	-1433.71	2	136.02	2	162.68	2.35	249.67
42	42	49.60	-566.83	255.26	-617.38	0	-784.60	2	-117.34	2	162.68	2.35	249.67
42	43	51.05	-566.83	325.71	-1037.92	0	-1110.32	2	199.18	2	243.86	2.35	374.25
43	43	51.05	-566.83	325.71	-1037.92	0	-1110.32	2	199.18	2	243.86	2.35	374.25
43	44	51.50	-566.83	343.19	-1189.76	0	-1226.65	2	308.62	2	274.12	2.35	420.68
44	44	51.50	-655.90	343.19	-603.33	0	-680.38	2	-755.33	2	274.12	2.35	420.68
44	45	52.50	-655.90	389.85	-972.57	0	-962.85	2	-490.78	2	347.98	2.35	534.06
45	1045	52.50	-655.90	-391.64	-972.57	0	-962.85	2	-490.78	2	347.98	2.35	534.06
45	46	53.50	-655.90	-344.87	-601.04	0	-678.73	2	-756.60	2	273.59	2.35	419.88
46	46	53.50	-566.83	-344.87	-1187.46	0	-1224.99	2	307.36	2	273.59	2.35	419.88
46	47	53.95	-566.83	-327.36	-1034.69	0	-1107.99	2	197.40	2	243.13	2.35	373.12
47	47	53.95	-566.83	-327.36	-1034.69	0	-1107.99	2	197.40	2	243.13	2.35	373.12
47	48	55.40	-566.83	-256.50	-610.36	0	-779.57	2	-121.08	2	161.05	2.35	247.17
48	48	55.40	-1051.08	-256.40	-939.03	0	-1428.73	2	132.24	2	161.05	2.35	247.17
48	49	56.85	-1050.15	-202.62	-605.35	0	-1165.26	2	-135.07	2	99.91	2.35	153.37
49	49	56.85	-1050.15	-202.62	-605.35	0	-1148.63	2	-197.93	2	114.26	2.35	174.93
49	50	58.30	-1050.15	-122.25	-372.06	0	-957.69	2	-412.37	2	76.81	2.35	117.52
50	50	58.30	-1452.04	-150.07	-634.52	0	-1485.63	2	-219.65	2	76.65	2.35	117.35
50	51	59.75	-1452.16	-129.27	-431.64	0	-1305.56	2	-459.77	2	54.76	2.35	83.81
51	51	59.75	-1452.16	-129.27	-431.64	0	-1474.70	2	-550.94	2	39.68	2.35	66.60
51	52	61.20	-1452.24	-108.46	-258.93	0	-1312.83	2	-790.12	2	27.01	2.35	45.21
52	52	61.20	-1452.95	-80.66	-259.07	0	-1313.65	2	-790.52	2	27.11	2.35	45.32
52	53	62.65	-1452.95	-59.85	-157.19	0	-1222.60	2	-911.58	2	17.40	2.35	28.94
53	53	62.65	-1452.95	-59.85	-157.19	0	-1222.60	2	-911.58	2	17.40	2.35	28.94
53	54	64.10	-1452.95	-39.05	-85.49	0	-1158.29	2	-997.78	2	10.68	2.35	17.60
54	54	64.10	-1452.95	-39.05	-85.49	0	-1158.29	2	-997.78	2	10.68	2.35	17.60
54	55	65.55	-1452.95	-18.24	-43.93	0	-1120.70	2	-1049.18	2	6.94	2.35	11.30
55	55	65.55	-1452.95	-18.24	-43.93	0	-1120.70	2	-1049.18	2	6.94	2.35	11.30
55	56	67.00	-1452.95	6.91	-36.44	0	-1112.47	2	-1064.88	2	6.94	2.35	11.33
56	56	67.00	-1452.95	6.91	-36.44	0	-1112.47	2	-1064.88	2	6.94	2.35	11.33
56	57	68.45	-1452.95	27.70	-61.53	0	-1132.62	2	-1045.19	2	10.41	2.35	17.19
57	57	68.45	-1452.95	27.70	-61.53	0	-1132.62	2	-1045.19	2	10.41	2.35	17.19
57	58	69.90	-1452.95	48.50	-116.79	0	-1179.50	2	-990.67	2	16.85	2.35	28.09
58	58	69.90	-1452.95	48.50	-116.79	0	-1179.50	2	-990.67	2	16.85	2.35	28.09
58	59	71.35	-1452.95	69.31	-202.19	0	-1253.09	2	-901.34	2	26.29	2.35	44.02
59	59	71.35	-1452.95	69.31	-202.19	0	-1253.09	2	-901.34	2	26.29	2.35	44.02
59	60	72.80	-1452.95	90.10	-317.78	0	-1353.43	2	-777.15	2	38.72	2.35	65.00
60	60	72.80	-1452.32	117.91	-317.64	0	-1352.63	2	-776.78	2	38.59	2.35	64.87
60	61	74.25	-1452.23	138.72	-504.04	0	-1523.78	2	-534.48	2	53.97	2.35	90.85
61	61	74.25	-1452.23	138.72	-504.04	0	-1353.43	2	-436.47	2	75.00	2.35	114.86
	62	75.70	-1452.10	159.51	-720.63	0	-1542.56	2	-191.93	2	100.73	2.35	154.30
	62	75.70	-1050.19	131.71	-458.17	0	-1014.61	2	-384.64	2	100.89	2.35	154.46
62	63	77.15	-1050.19	201.22	-702.93	0	-1213.13	2	-166.51	2	141.55	2.35	216.81
63	63	77.15	-1050.19	201.22	-702.93	0	-1230.52	2	-100.82	2	126.57	2.35	194.29
63	64	78.60	-1051.13	261.58	-1037.05	0	-1494.41	2	167.09	2	187.77	2.35	288.17
64	64	78.60	-566.83	261.68	-708.38	0	-845.22	2	-86.20	2	187.77	2.35	288.17
64	65	80.05	-566.83	320.08	-1131.31	0	-1172.84	2	232.28	2	269.40	2.35	413.42
65	65	80.05	-566.83	320.08	-1131.31	0	-1172.84	2	232.28	2	269.40	2.35	413.42
65	66	80.50	-566.83	349.50	-1282.96	0	-1289.14	2	342.03	2	299.54	2.35	459.67
66	66	80.50	-655.90	349.50	-696.54	0	-742.87	2	-721.93	2	299.54	2.35	459.67
66	67	81.50	-655.90	395.97	-1070.04	0	-1028.37	2	-455.18	2	374.43	2.35	574.62
67	1067	81.50	-655.90	-419.96	-1070.04	0	-1028.37	2	-455.18	2	374.43	2.35	574.62
67	68	82.50	-655.90	-373.82	-669.50	0	-721.66	2	-743.31	2	294.54	2.35	452.00
68	68	82.50	-647.39	-373.82	-1312.31	0	-1377.67	2	365.72	2	294.54	2.35	452.00
68	69	83.08	-647.39	-350.70	-1101.42	0	-1215.93	2	213.06	2	252.65	2.35	387.72
69	69	83.08	-647.39	-350.70	-1101.42	0	-1215.93	2	213.06	2	252.65	2.35	387.72
69	70	84.65	-647.39	-274.38	-608.03	0	-833.12	2	-160.80	2	157.91	2.35	242.34
70	70	84.65	-1212.23	-274.28	-991.48	0	-1590.40	2	134.81	2	157.91	2.35	242.34
70	71	86.23	-1211.30	-215.93	-604.21	0	-1283.77	2	-179.09	2	87.66	2.35	134.55
71	71	86.23	-1211.30	-215.93	-604.21	0	-1268.21	2	-237.90	2	101.07	2.35	154.71
71	72	87.80	-1211.30	-134.05	-347.13	0	-1054.92	2	-485.09	2	61.91	2.35	94.70
72	72	87.80	-1774.25	-165.34	-714.63	0	-1794.39	2	-215.46	2	61.75	2.35	94.55
72	73	89.38	-1774.37	-142.74	-471.61	0	-1578.87	2	-502.31	2	35.38	2.35	54.12
73	73	89.38	-1774.37	-142.74	-471.61	0	-1786.85	2	-585.19	2	25.81	2.35	43.21
73	74	90.95	-1774.45	-120.14	-264.18	0	-1592.67	2	-871.30	2	10.46	2.35	17.30
	74	90.95	-1775.17	-88.87	-264.32	0	-1593.51	2	-871.69	2	10.56	2.35	17.41
74	75	92.53	-1775.17	-66.27	-142.15	0	-1484.75	2	-1014.97	2	-1.30	2.35	-2.59
75	75	92.53	-1775.17	-66.27	-142.15	0	-1484.75	2	-1014.97	2	-1.30	2.35	-2.59
75	76	94.10	-1775.17	-43.67	-55.56	0	-1407.52	2	-1117.17	2	-9.63	2.35	-16.64
76	76	94.10	-1775.17	-43.67	-55.56	0	-1407.52	2	-1117.17	2	-9.63	2.35	-16.64
76	77	95.68	-1775.17	-21.09	-4.58	0	-1361.84	2	-1178.24	2	-14.44	2.35	-24.75

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.IPF75B.EnvTrenGen.MZ-.To.MZ-
Frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-

1)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ- + [0; .3]PAS

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1775.17	-21.09	-4.58	0	-1361.84	2	-1178.24	2	-14.44	2.35	-24.75
77	78	97.25	-1775.17	5.29	7.51	0	-1349.94	2	-1197.48	2	-15.08	2.35	-25.81
78	78	97.25	-1775.17	5.29	7.51	0	-1349.94	2	-1197.48	2	-15.08	2.35	-25.81
78	79	98.83	-1775.17	27.89	-18.62	0	-1371.35	2	-1175.07	2	-11.69	2.35	-20.06
79	79	98.83	-1775.17	27.89	-18.62	0	-1371.35	2	-1175.07	2	-11.69	2.35	-20.06
79	80	100.40	-1775.17	50.47	-80.35	0	-1424.31	2	-1111.56	2	-4.76	2.35	-8.36
80	80	100.40	-1775.17	50.47	-80.35	0	-1424.31	2	-1111.56	2	-4.76	2.35	-8.36
80	81	101.98	-1775.17	73.07	-177.66	0	-1508.80	2	-1006.93	2	5.69	2.35	9.28
81	81	101.98	-1775.17	73.07	-177.66	0	-1508.80	2	-1006.93	2	5.69	2.35	9.28
81	82	103.55	-1775.17	95.67	-310.56	0	-1624.83	2	-861.21	2	19.66	2.35	32.86
82	82	103.55	-1774.52	126.94	-310.41	0	-1624.01	2	-860.85	2	19.53	2.35	32.73
82	83	105.13	-1774.43	149.53	-528.58	0	-1825.46	2	-572.30	2	37.00	2.35	62.23
83	83	105.13	-1774.43	149.53	-528.58	0	-1616.53	2	-484.01	2	51.28	2.35	78.53
83	84	106.70	-1774.30	172.14	-782.35	0	-1839.15	2	-193.70	2	80.67	2.35	123.57
84	84	106.70	-1211.26	140.87	-414.85	0	-1099.65	2	-463.29	2	80.84	2.35	123.74
84	85	108.28	-1211.26	214.61	-687.55	0	-1323.25	2	-211.09	2	124.35	2.35	190.44
85	85	108.28	-1211.26	214.61	-687.55	0	-1338.07	2	-155.07	2	111.57	2.35	171.23
85	86	109.85	-1212.20	280.26	-1077.84	0	-1646.59	2	159.40	2	182.78	2.35	280.46
86	86	109.85	-647.39	280.34	-694.39	0	-889.33	2	-136.23	2	182.78	2.35	280.46
86	87	111.43	-647.39	343.82	-1188.55	0	-1272.56	2	237.51	2	277.84	2.35	426.33
87	87	111.43	-647.39	343.82	-1188.55	0	-1272.56	2	237.51	2	277.84	2.35	426.33
87	88	112.00	-647.39	376.69	-1399.31	0	-1434.18	2	390.01	2	319.73	2.35	490.62
88	88	112.00	-655.90	376.69	-756.50	0	-778.17	2	-719.02	2	319.73	2.35	490.62
88	89	113.00	-655.90	425.23	-1161.33	0	-1087.64	2	-429.79	2	400.89	2.35	615.18
89	1089	113.00	-655.90	-423.07	-1161.33	0	-1087.64	2	-429.79	2	400.89	2.35	615.18
89	90	114.00	-655.90	-374.56	-758.78	0	-779.79	2	-717.86	2	320.27	2.35	491.46
90	90	114.00	-647.39	-374.56	-1401.59	0	-1435.80	2	391.17	2	320.27	2.35	491.46
90	91	114.58	-647.39	-341.75	-1192.48	0	-1275.34	2	239.49	2	278.79	2.35	427.79
91	91	114.58	-647.39	-341.75	-1192.48	0	-1275.34	2	239.49	2	278.79	2.35	427.79
91	92	116.15	-647.39	-278.40	-701.77	0	-894.59	2	-132.42	2	184.54	2.35	283.17
92	92	116.15	-1212.13	-278.32	-1085.22	0	-1651.80	2	163.25	2	184.54	2.35	283.17
92	93	117.73	-1211.20	-213.01	-698.28	0	-1345.69	2	-149.44	2	114.11	2.35	175.14
93	93	117.73	-1211.20	-213.01	-698.28	0	-1330.33	2	-207.59	2	127.40	2.35	195.10
93	94	119.30	-1211.20	-144.42	-424.34	0	-1105.92	2	-460.16	2	83.56	2.35	127.89
94	94	119.30	-1774.34	-175.69	-791.84	0	-1345.45	2	-190.60	2	83.36	2.35	127.69
94	95	120.88	-1774.47	-153.07	-532.51	0	-1619.16	2	-482.67	2	52.44	2.35	80.29
95	95	120.88	-1774.47	-153.07	-532.51	0	-1528.16	2	-571.25	2	37.91	2.35	63.71
95	96	122.45	-1774.57	-130.49	-308.72	0	-1622.91	2	-861.03	2	19.39	2.35	32.40
96	96	122.45	-1775.17	-99.22	-308.86	0	-1623.72	2	-861.38	2	19.53	2.35	32.54
96	97	124.03	-1775.17	-76.62	-170.38	0	-1503.92	2	-1008.31	2	4.51	2.35	7.15
97	97	124.03	-1775.17	-76.62	-170.38	0	-1503.92	2	-1008.31	2	4.51	2.35	7.15
97	98	125.60	-1775.17	-54.02	-67.50	0	-1415.68	2	-1114.11	2	-6.98	2.35	-12.29
98	98	125.60	-1775.17	-54.02	-67.50	0	-1415.68	2	-1114.11	2	-6.98	2.35	-12.29
98	99	127.18	-1775.17	-31.44	-0.17	0	-1358.93	2	-1178.87	2	-14.95	2.35	-25.79
99	99	127.18	-1775.17	-31.44	-0.17	0	-1358.93	2	-1178.87	2	-14.95	2.35	-25.79
99	100	128.75	-1775.17	-8.84	31.56	0	-1333.73	2	-1202.50	2	-19.40	2.35	-33.35
100	100	128.75	-1775.17	-8.84	31.56	0	-1333.73	2	-1202.50	2	-19.40	2.35	-33.35
100	101	130.33	-1775.17	13.75	27.72	0	-1340.06	2	-1185.05	2	-20.32	2.35	-34.96
101	101	130.33	-1775.17	13.75	27.72	0	-1340.06	2	-1185.05	2	-20.32	2.35	-34.96
101	102	131.90	-1775.17	39.77	-15.21	0	-1380.31	2	-1125.69	2	-17.04	2.35	-29.48
102	102	131.90	-1775.17	39.77	-15.21	0	-1380.31	2	-1125.69	2	-17.04	2.35	-29.48
102	103	133.48	-1775.17	62.37	-95.64	0	-1453.38	2	-1024.83	2	-9.86	2.35	-17.42
103	103	133.48	-1775.17	62.37	-95.64	0	-1453.38	2	-1024.83	2	-9.86	2.35	-17.42
103	104	135.05	-1775.17	84.97	-211.65	0	-1557.98	2	-882.90	2	0.84	2.35	0.59
104	104	135.05	-1774.41	116.24	-211.51	0	-1557.12	2	-882.50	2	0.75	2.35	0.49
104	105	136.63	-1774.32	138.83	-412.81	0	-1747.16	2	-597.70	2	14.95	2.35	24.42
105	105	136.63	-1774.32	138.83	-412.81	0	-1540.10	2	-520.78	2	19.33	2.35	29.38
105	106	138.20	-1774.21	161.44	-649.70	0	-1751.58	2	-235.88	2	44.03	2.35	67.21
106	106	138.20	-1211.36	130.15	-282.20	0	-1012.15	2	-505.54	2	44.15	2.35	67.33
106	107	139.78	-1211.36	218.53	-540.36	0	-1226.15	2	-257.99	2	83.62	2.35	127.82
107	107	139.78	-1211.36	218.53	-540.36	0	-1244.91	2	-187.19	2	67.49	2.35	103.56
107	108	141.35	-1212.30	280.47	-930.61	0	-1553.70	2	128.37	2	138.43	2.35	212.40
108	108	141.35	-647.39	280.56	-547.16	0	-796.38	2	-167.19	2	138.43	2.35	212.40
108	109	142.93	-647.39	351.20	-1048.03	0	-1164.33	2	209.80	2	235.10	2.35	360.74
109	109	142.93	-647.39	351.20	-1048.03	0	-1184.33	2	209.80	2	235.10	2.35	360.74
109	110	143.50	-647.39	382.93	-1258.64	0	-1345.95	2	362.66	2	276.85	2.35	424.82
110	110	143.50	-655.90	382.93	-615.83	0	-689.94	2	-746.37	2	276.85	2.35	424.82
110	111	144.50	-655.90	419.64	-1016.68	0	-996.97	2	-457.71	2	356.74	2.35	547.44
111	1111	144.50	-655.90	-363.98	-1016.68	0	-996.97	2	-457.71	2	356.74	2.35	547.44
111	112	145.50	-655.90	-320.67	-674.50	0	-738.20	2	-691.54	2	285.98	2.35	438.84
112	112	145.50	-526.55	-320.67	-1232.73	0	-1229.59	2	349.87	2	285.98	2.35	438.84
112	113	145.68	-526.55	-300.45	-1177.67	0	-1187.95	2	312.23	2	274.59	2.35	421.36
113	113	145.68	-526.55	-300.45	-1177.67	0	-1187.95	2	312.23	2	274.59	2.35	421.36
113	114	146.85	-526.55	-251.71	-851.87	0	-939.43	2	81.52	2	208.75	2.35	320.34
114	114	146.85	-971.30	-251.49	-1153.15	0	-1535.03	2	313.17	2	208.75	2.35	320.34
114	115	148.03	-970.37	-192.77	-891.69	0	-1332.16	2	117.85	2	157.98	2.35	242.47

CÁLCULO TENSIONAL

Hipótesis de cálculo:

FREC1.IPF75B.EnvTrenGen.MZ-.To.MZ-

...cuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-

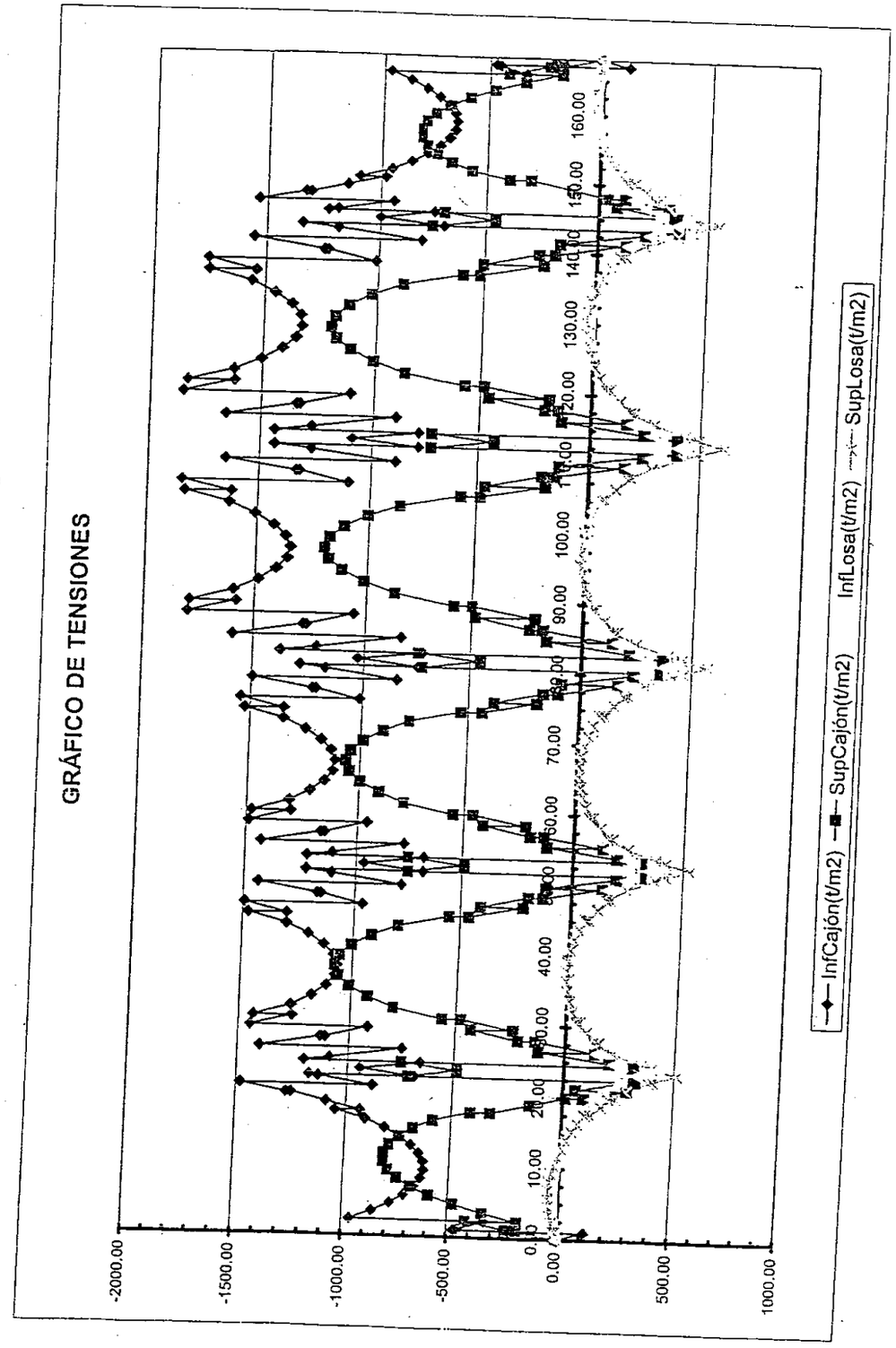
...gas + [.05; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ- + [0; .3]PAS

Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-970.37	-192.77	-891.69	0	-1310.89	2	38.49	2	175.90	2.35	269.52
115	116	149.20	-970.37	-168.63	-681.44	0	-1147.41	2	-122.17	2	135.50	2.35	207.61
116	116	149.20	-969.46	-191.64	-681.30	0	-1146.45	2	-121.59	2	135.37	2.35	207.47
116	117	150.38	-969.27	-149.04	-475.80	0	-979.85	2	-304.52	2	101.17	2.35	155.02
117	117	150.38	-969.27	-149.04	-475.80	0	-1094.16	2	-400.36	2	72.68	2.35	122.48
117	118	151.55	-969.38	-132.19	-310.34	0	-952.03	2	-572.11	2	54.11	2.35	91.16
118	118	151.55	-969.61	-109.29	-310.46	0	-952.69	2	-572.38	2	54.36	2.35	91.41
118	119	152.73	-969.61	-92.43	-191.95	0	-857.49	2	-665.65	2	37.72	2.35	63.38
119	119	152.73	-969.61	-92.43	-191.95	0	-857.49	2	-665.65	2	37.72	2.35	63.38
119	120	153.90	-969.61	-75.58	-93.26	0	-779.84	2	-736.04	2	23.05	2.35	38.66
120	120	153.90	-969.61	-75.58	-93.26	0	-779.84	2	-736.04	2	23.05	2.35	38.66
120	121	155.08	-969.61	-58.71	-14.34	0	-719.73	2	-783.54	2	10.33	2.35	17.23
121	121	155.08	-969.61	-58.71	-14.34	0	-719.73	2	-783.54	2	10.33	2.35	17.23
121	122	156.25	-969.61	-41.87	44.74	0	-677.20	2	-808.17	2	-0.41	2.35	-0.87
122	122	156.25	-969.61	-41.87	44.74	0	-677.20	2	-808.17	2	-0.41	2.35	-0.87
122	123	157.43	-969.61	-25.01	84.04	0	-652.20	2	-809.94	2	-9.20	2.35	-15.68
123	123	157.43	-969.61	-25.01	84.04	0	-652.20	2	-809.94	2	-9.20	2.35	-15.68
123	124	158.60	-969.61	-8.16	103.52	0	-644.76	2	-788.84	2	-16.03	2.35	-27.16
124	124	158.60	-969.61	-8.16	103.52	0	-644.76	2	-788.84	2	-16.03	2.35	-27.16
4	125	159.78	-969.61	8.69	103.21	0	-654.86	2	-744.86	2	-20.89	2.35	-35.35
25	125	159.78	-969.61	8.69	103.21	0	-654.86	2	-744.86	2	-20.89	2.35	-35.35
126	126	160.95	-969.61	25.55	83.06	0	-682.53	2	-678.01	2	-23.79	2.35	-40.22
126	127	162.13	-969.61	25.55	83.06	0	-682.53	2	-678.01	2	-23.79	2.35	-40.22
127	127	162.13	-969.61	42.41	43.15	0	-727.72	2	-588.30	2	-24.73	2.35	-41.79
127	128	163.30	-969.61	42.41	43.15	0	-727.72	2	-588.30	2	-24.73	2.35	-41.79
128	128	163.30	-969.61	59.27	-16.59	0	-790.49	2	-475.69	2	-23.71	2.35	-40.05
128	129	164.48	-969.61	59.27	-16.59	0	-790.49	2	-475.69	2	-23.71	2.35	-40.05
129	129	164.48	-969.61	76.12	-96.12	0	-870.79	2	-340.25	2	-20.73	2.35	-35.00
129	130	165.65	-969.61	76.12	-96.12	0	-870.79	2	-340.25	2	-20.73	2.35	-35.00
130	130	165.65	-526.55	92.98	-195.48	0	-968.66	2	-181.90	2	-15.78	2.35	-26.64
130	131	166.83	-526.55	92.98	80.99	0	-337.34	2	-416.36	2	-15.78	2.35	-26.64
131	131	166.83	-526.55	109.84	-38.14	0	-452.74	2	-235.18	2	-8.87	2.35	-14.97
131	132	167.00	-526.55	109.84	-38.14	0	-452.74	2	-235.18	2	-8.87	2.35	-14.97
132	132	167.00	0.00	112.34	-57.61	0	-471.46	2	-206.19	2	-7.67	2.35	-12.95
132	133	168.00	0.00	112.34	122.85	0	117.90	2	-181.98	2	-7.67	2.35	-12.95
			0.00	152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

Programa DINTEL IDEAM S.A.
FREC1.IPF75B.EnvTrenGen.MZ-.To.MZ-

GRÁFICO DE TENSIONES



combi_t0.xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.GRAD.To.MZ+

...cuentes con gradiente. Dominante GRAD

...igas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .976]IPF75B.MZ+ + [0; .4]PAS

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-279.80	296.54	0	235.43	2	-220.72	2	-41.28	2.35	-70.30
2	2	1.00	-476.41	-279.80	133.26	0	-297.80	2	-242.63	2	-41.28	2.35	-70.30
2	3	1.18	-476.41	-274.76	181.39	0	-259.70	2	-277.96	2	-48.03	2.35	-81.80
3	3	1.18	-476.41	-274.76	181.39	0	-259.70	2	-277.96	2	-48.03	2.35	-81.80
3	4	2.35	-476.41	-241.44	481.27	0	-22.00	2	-499.43	2	-89.93	2.35	-153.16
4	4	2.35	-877.27	-241.44	231.14	0	-593.20	2	-287.30	2	-89.93	2.35	-153.16
4	5	3.53	-877.27	-208.17	489.84	0	-387.51	2	-481.17	2	-125.72	2.35	-214.16
5	5	3.53	-877.27	-208.17	489.84	0	-387.51	2	-481.17	2	-125.72	2.35	-214.16
5	6	4.70	-877.27	-174.74	711.04	0	-211.35	2	-648.20	2	-156.15	2.35	-266.02
6	6	4.70	-877.27	-174.74	711.04	0	-211.35	2	-648.20	2	-156.15	2.35	-266.02
6	7	5.88	-877.27	-141.16	893.83	0	-65.33	2	-788.24	2	-181.00	2.35	-308.42
7	7	5.88	-877.27	-141.16	893.83	0	-65.33	2	-788.24	2	-181.00	2.35	-308.42
7	8	7.05	-877.27	-101.18	1036.31	0	49.27	2	-900.84	2	-199.94	2.35	-340.75
8	8	7.05	-877.27	-101.18	1036.31	0	49.27	2	-900.84	2	-199.94	2.35	-340.75
8	9	8.23	-877.27	-67.92	1138.67	0	132.58	2	-986.05	2	-212.99	2.35	-363.08
9	9	8.23	-877.27	-67.92	1138.67	0	132.58	2	-986.05	2	-212.99	2.35	-363.08
9	10	9.40	-877.27	-34.48	1202.75	0	185.84	2	-1044.29	2	-220.50	2.35	-375.99
10	10	9.40	-877.27	-34.48	1202.75	0	185.84	2	-1044.29	2	-220.50	2.35	-375.99
10	11	10.58	-877.27	-7.76	1228.12	0	208.75	2	-1075.43	2	-222.40	2.35	-379.37
11	11	10.58	-877.27	-7.76	1228.12	0	208.75	2	-1075.43	2	-222.40	2.35	-379.37
11	12	11.75	-877.27	31.77	1212.04	0	199.47	2	-1078.89	2	-218.15	2.35	-372.29
12	12	11.75	-877.27	31.77	1212.04	0	199.47	2	-1078.89	2	-218.15	2.35	-372.29
12	13	12.93	-877.27	59.73	1158.22	0	160.51	2	-1055.50	2	-208.47	2.35	-355.99
13	13	12.93	-877.27	59.73	1158.22	0	160.51	2	-1055.50	2	-208.47	2.35	-355.99
13	14	14.10	-877.27	98.46	1064.96	0	90.70	2	-1004.86	2	-193.04	2.35	-329.90
14	14	14.10	-877.27	98.46	1064.96	0	90.70	2	-1004.86	2	-193.04	2.35	-329.90
14	15	15.28	-877.27	125.98	934.04	0	-8.73	2	-927.37	2	-172.19	2.35	-294.61
15	15	15.28	-877.27	125.98	934.04	0	-8.73	2	-927.37	2	-172.19	2.35	-294.61
15	16	16.45	-877.27	159.24	762.80	0	-139.59	2	-822.43	2	-145.42	2.35	-249.25
16	16	16.45	-877.64	179.96	762.92	0	-139.15	2	-822.35	2	-145.84	2.35	-249.67
16	17	17.63	-877.74	213.39	527.39	0	-327.67	2	-639.86	2	-113.34	2.35	-194.51
17	17	17.63	-877.74	213.39	527.39	0	-241.35	2	-630.86	2	-165.02	2.35	-253.79
17	18	18.80	-877.52	221.71	263.03	0	-445.74	2	-432.64	2	-113.70	2.35	-175.06
18	18	18.80	-877.89	200.93	262.91	0	-446.50	2	-433.06	2	-113.42	2.35	-174.78
18	19	19.98	-877.89	225.59	7.10	0	-640.05	2	-257.88	2	-60.41	2.35	-93.48
19	19	19.98	-877.89	225.59	7.10	0	-657.60	2	-192.38	2	-75.20	2.35	-115.81
19	20	21.15	-878.83	190.18	-230.21	0	-844.31	2	-5.64	2	-30.98	2.35	-47.99
20	20	21.15	-476.41	190.38	42.37	0	-305.41	2	-215.20	2	-30.98	2.35	-47.99
20	21	22.33	-476.41	181.30	-171.52	0	-479.82	2	-21.08	2	3.97	2.35	5.57
21	21	22.33	-476.41	181.30	-171.52	0	-479.82	2	-21.08	2	3.97	2.35	5.57
21	22	22.50	-476.41	174.99	-202.40	0	-505.47	2	8.73	2	8.67	2.35	12.76
22	22	22.50	-801.66	174.99	413.23	0	-80.81	2	-1257.02	2	8.67	2.35	12.76
22	23	23.50	-801.66	182.27	234.45	0	-231.50	2	-1076.13	2	34.24	2.35	51.91
23	1023	23.50	-801.66	-193.03	234.45	0	-231.50	2	-1076.13	2	34.24	2.35	51.91
	24	24.50	-801.66	-190.80	423.00	0	-68.02	2	-1284.16	2	10.73	2.35	15.93
	24	24.50	-512.85	-190.80	-218.14	0	-542.33	2	1.99	2	10.73	2.35	15.93
24	25	24.95	-512.85	-192.72	-134.38	0	-470.82	2	-86.22	2	-0.53	2.35	-1.32
25	25	24.95	-512.85	-192.72	-134.38	0	-470.82	2	-86.22	2	-0.53	2.35	-1.32
25	26	26.40	-512.85	-192.02	141.43	0	-240.19	2	-358.24	2	-41.22	2.35	-63.67
26	26	26.40	-951.16	-191.90	-155.94	0	-827.64	2	-129.16	2	-41.22	2.35	-63.67
26	27	27.85	-950.23	-215.31	152.91	0	-580.31	2	-389.50	2	-95.30	2.35	-146.61
27	27	27.85	-950.23	-215.31	152.91	0	-563.90	2	-451.42	2	-81.19	2.35	-125.39
27	28	29.30	-950.23	-248.58	494.62	0	-301.37	2	-700.53	2	-148.75	2.35	-229.08
28	28	29.30	-1314.87	-273.74	257.16	0	-779.31	2	-526.44	2	-149.20	2.35	-229.52
28	29	30.75	-1314.79	-232.30	628.67	0	-489.25	2	-815.00	2	-218.94	2.35	-336.61
29	29	30.75	-1314.79	-232.30	628.67	0	-623.50	2	-820.93	2	-151.17	2.35	-258.92
29	30	32.20	-1314.69	-190.66	940.74	0	-368.86	2	-1084.08	2	-191.54	2.35	-327.59
30	30	32.20	-1314.57	-165.50	940.62	0	-369.39	2	-1084.23	2	-191.21	2.35	-327.25
30	31	33.65	-1314.57	-124.98	1154.49	0	-202.55	2	-1230.29	2	-222.63	2.35	-380.67
31	31	33.65	-1314.57	-124.98	1154.49	0	-202.55	2	-1230.29	2	-222.63	2.35	-380.67
31	32	35.10	-1314.57	-89.85	1310.15	0	-81.43	2	-1335.26	2	-245.65	2.35	-419.79
32	32	35.10	-1314.57	-89.85	1310.15	0	-81.43	2	-1335.26	2	-245.65	2.35	-419.79
32	33	36.55	-1314.57	-41.90	1406.25	0	-6.92	2	-1398.87	2	-260.00	2.35	-444.17
33	33	36.55	-1314.57	-41.90	1406.25	0	-6.92	2	-1398.87	2	-260.00	2.35	-444.17
33	34	38.00	-1314.57	-6.77	1440.25	0	19.26	2	-1420.55	2	-265.19	2.35	-452.97
34	34	38.00	-1314.57	-6.77	1440.25	0	19.26	2	-1420.55	2	-265.19	2.35	-452.97
34	35	39.45	-1314.57	33.75	1418.08	0	1.11	2	-1401.60	2	-262.37	2.35	-448.16
35	35	39.45	-1314.57	33.75	1418.08	0	1.11	2	-1401.60	2	-262.37	2.35	-448.16
35	36	40.90	-1314.57	81.69	1333.77	0	-65.42	2	-1340.69	2	-250.37	2.35	-427.76
	36	40.90	-1314.57	81.69	1333.77	0	-65.42	2	-1340.69	2	-250.37	2.35	-427.76
36	37	42.35	-1314.57	116.83	1189.96	0	-178.50	2	-1238.45	2	-229.72	2.35	-392.65
37	37	42.35	-1314.57	116.83	1189.96	0	-178.50	2	-1238.45	2	-229.72	2.35	-392.65
37	38	43.80	-1314.57	157.35	987.91	0	-337.33	2	-1095.10	2	-200.65	2.35	-343.23
38	38	43.80	-1314.62	182.50	988.03	0	-336.78	2	-1094.94	2	-200.97	2.35	-343.54
38	39	45.25	-1314.73	224.15	687.75	0	-583.43	2	-834.50	2	-162.96	2.35	-278.86

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.GRAD.To.MZ+

Infrecuentes con gradiente. Dominante GRAD

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .976]IPF75B.MZ+ + [0; .4]PASI

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1314.73	224.15	687.75	0	-450.17	2	-834.09	2	-235.51	2.35	-362.03
39	40	46.70	-1314.82	265.58	328.09	0	-732.40	2	-549.36	2	-169.11	2.35	-260.04
40	40	46.70	-950.07	240.45	565.55	0	-254.42	2	-723.41	2	-168.62	2.35	-259.56
40	41	48.15	-950.07	228.13	216.31	0	-521.91	2	-471.94	2	-99.01	2.35	-152.72
41	41	48.15	-950.07	228.13	216.31	0	-535.62	2	-420.03	2	-110.87	2.35	-170.53
41	42	49.60	-951.01	206.85	-101.37	0	-788.39	2	-158.36	2	-54.06	2.35	-83.38
42	42	49.60	-512.85	206.93	196.00	0	-201.04	2	-387.52	2	-54.06	2.35	-83.38
42	43	51.05	-512.85	198.13	-92.00	0	-439.32	2	-113.10	2	-9.70	2.35	-15.39
43	43	51.05	-512.85	198.13	-92.00	0	-439.32	2	-113.10	2	-9.70	2.35	-15.39
43	44	51.50	-512.85	196.25	-179.01	0	-512.86	2	-24.30	2	2.56	2.35	3.38
44	44	51.50	-801.66	196.25	462.13	0	-38.55	2	-1310.45	2	2.56	2.35	3.38
44	45	52.50	-801.66	198.52	267.59	0	-205.72	2	-1101.53	2	27.92	2.35	42.22
45	1045	52.50	-801.66	-187.83	267.59	0	-205.72	2	-1101.53	2	27.92	2.35	42.22
45	46	53.50	-801.66	-185.58	451.27	0	-45.62	2	-1307.36	2	5.65	2.35	8.14
46	46	53.50	-512.85	-185.58	-189.87	0	-519.93	2	-21.21	2	5.65	2.35	8.14
46	47	53.95	-512.85	-187.48	-107.86	0	-449.65	2	-108.57	2	-5.18	2.35	-8.45
47	47	53.95	-512.85	-187.48	-107.86	0	-449.65	2	-108.57	2	-5.18	2.35	-8.45
47	48	55.40	-512.85	-199.45	165.16	0	-221.11	2	-378.74	2	-45.27	2.35	-69.88
48	48	55.40	-951.06	-199.35	-132.21	0	-808.50	2	-149.60	2	-45.27	2.35	-69.88
48	49	56.85	-950.13	-216.44	178.35	0	-560.29	2	-409.55	2	-99.99	2.35	-153.81
49	49	56.85	-950.13	-216.44	178.35	0	-546.99	2	-459.85	2	-88.51	2.35	-136.56
49	50	58.30	-950.13	-245.27	520.49	0	-284.19	2	-709.05	2	-156.15	2.35	-240.38
50	50	58.30	-1314.86	-270.42	283.02	0	-762.16	2	-534.99	2	-156.63	2.35	-240.86
50	51	59.75	-1314.78	-228.98	649.70	0	-475.31	2	-821.97	2	-224.99	2.35	-345.84
51	51	59.75	-1314.78	-228.98	649.70	0	-609.18	2	-826.09	2	-155.65	2.35	-266.36
51	52	61.20	-1314.66	-187.34	957.06	0	-357.73	2	-1088.11	2	-195.04	2.35	-333.39
52	52	61.20	-1314.57	-162.19	956.94	0	-358.27	2	-1088.26	2	-194.71	2.35	-333.06
52	53	62.65	-1314.57	-121.67	1165.98	0	-194.72	2	-1233.17	2	-225.13	2.35	-384.79
53	53	62.65	-1314.57	-121.67	1165.98	0	-194.72	2	-1233.17	2	-225.13	2.35	-384.79
53	54	64.10	-1314.57	-86.53	1316.84	0	-76.86	2	-1336.99	2	-247.16	2.35	-422.24
54	54	64.10	-1314.57	-86.53	1316.84	0	-76.86	2	-1336.99	2	-247.16	2.35	-422.24
54	55	65.55	-1314.57	-38.59	1408.18	0	-5.58	2	-1399.46	2	-260.52	2.35	-444.97
55	55	65.55	-1314.57	-38.59	1408.18	0	-5.58	2	-1399.46	2	-260.52	2.35	-444.97
55	56	67.00	-1314.57	-3.45	1437.36	0	17.32	2	-1419.99	2	-264.70	2.35	-452.10
56	56	67.00	-1314.57	-3.45	1437.36	0	17.32	2	-1419.99	2	-264.70	2.35	-452.10
56	57	68.45	-1314.57	37.05	1410.45	0	-4.06	2	-1399.90	2	-260.89	2.35	-445.65
57	57	68.45	-1314.57	37.05	1410.45	0	-4.06	2	-1399.90	2	-260.89	2.35	-445.65
57	58	69.90	-1314.57	84.98	1321.32	0	-73.85	2	-1337.84	2	-247.90	2.35	-423.57
58	58	69.90	-1314.57	84.98	1321.32	0	-73.85	2	-1337.84	2	-247.90	2.35	-423.57
58	59	71.35	-1314.57	120.13	1172.76	0	-190.18	2	-1234.46	2	-226.25	2.35	-386.80
59	59	71.35	-1314.57	120.13	1172.76	0	-190.18	2	-1234.46	2	-226.25	2.35	-386.80
59	60	72.80	-1314.57	160.64	965.92	0	-352.25	2	-1089.97	2	-196.19	2.35	-335.72
60	60	72.80	-1314.65	185.79	966.04	0	-351.71	2	-1089.81	2	-196.51	2.35	-336.04
60	61	74.25	-1314.77	227.45	660.93	0	-601.65	2	-828.23	2	-157.50	2.35	-269.68
61	61	74.25	-1314.77	227.45	660.93	0	-467.94	2	-825.37	2	-227.94	2.35	-350.43
61	62	75.70	-1314.83	268.88	296.51	0	-753.30	2	-539.06	2	-160.17	2.35	-246.36
62	62	75.70	-950.17	243.72	533.97	0	-275.35	2	-713.15	2	-159.71	2.35	-245.91
62	63	77.15	-950.17	229.17	188.49	0	-540.37	2	-462.84	2	-91.11	2.35	-140.62
63	63	77.15	-950.17	229.17	188.49	0	-554.37	2	-409.98	2	-103.16	2.35	-158.74
63	64	78.60	-951.11	203.65	-136.23	0	-812.04	2	-145.10	2	-44.56	2.35	-68.86
64	64	78.60	-512.85	203.75	161.14	0	-224.62	2	-374.21	2	-44.56	2.35	-68.86
64	65	80.05	-512.85	195.02	-126.44	0	-462.87	2	-98.99	2	-0.49	2.35	-1.31
65	65	80.05	-512.85	195.02	-126.44	0	-462.87	2	-98.99	2	-0.49	2.35	-1.31
65	66	80.50	-512.85	193.14	-212.53	0	-535.88	2	-10.19	2	11.46	2.35	16.99
66	66	80.50	-801.66	193.14	428.61	0	-61.57	2	-1296.34	2	11.46	2.35	16.99
66	67	81.50	-801.66	195.43	236.83	0	-227.08	2	-1087.66	2	35.94	2.35	54.47
67	1067	81.50	-801.66	-208.10	236.83	0	-227.08	2	-1087.66	2	35.94	2.35	54.47
67	68	82.50	-801.66	-208.21	439.98	0	-50.71	2	-1312.68	2	10.80	2.35	15.99
68	68	82.50	-585.73	-208.21	-252.17	0	-624.32	2	14.25	2	10.80	2.35	15.99
68	69	83.08	-585.73	-210.51	-135.04	0	-524.49	2	-108.42	2	-5.08	2.35	-8.33
69	69	83.08	-585.73	-210.51	-135.04	0	-524.49	2	-108.42	2	-5.08	2.35	-8.33
69	70	84.65	-585.73	-220.42	195.67	0	-249.10	2	-430.23	2	-54.70	2.35	-84.38
70	70	84.65	-1096.87	-220.32	-151.26	0	-934.31	2	-162.83	2	-54.70	2.35	-84.38
70	71	86.23	-1095.94	-245.85	219.88	0	-638.36	2	-471.49	2	-120.50	2.35	-185.31
71	71	86.23	-1095.94	-245.85	219.88	0	-626.14	2	-517.66	2	-109.97	2.35	-169.49
71	72	87.80	-1095.94	-259.30	641.62	0	-304.14	2	-817.44	2	-194.81	2.35	-299.70
72	72	87.80	-1606.41	-297.60	309.12	0	-973.49	2	-573.81	2	-195.27	2.35	-300.17
72	73	89.38	-1606.34	-252.71	736.85	0	-637.71	2	-912.99	2	-274.17	2.35	-421.31
73	73	89.38	-1606.34	-252.71	736.85	0	-804.33	2	-901.68	2	-190.28	2.35	-325.18
73	74	90.95	-1606.17	-201.57	1096.84	0	-508.79	2	-1213.02	2	-235.95	2.35	-402.89
74	74	90.95	-1606.11	-173.29	1096.71	0	-509.36	2	-1213.17	2	-235.63	2.35	-402.57
74	75	92.53	-1606.11	-128.36	1339.86	0	-318.75	2	-1383.37	2	-270.87	2.35	-462.48
75	75	92.53	-1606.11	-128.36	1339.86	0	-318.75	2	-1383.37	2	-270.87	2.35	-462.48
75	76	94.10	-1606.11	-90.43	1511.55	0	-183.94	2	-1504.49	2	-295.64	2.35	-504.60
76	76	94.10	-1606.11	-90.43	1511.55	0	-183.94	2	-1504.49	2	-295.64	2.35	-504.60
76	77	95.68	-1606.11	-45.65	1614.09	0	-103.39	2	-1577.03	2	-310.41	2.35	-529.71

CÁLCULO TENSIONAL

Hipótesis de cálculo:

INFREC1.GRAD.To.MZ+

Frecuentes con gradiente. Dominante GRAD

1: 1]Pvigas + [.95: 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [.9: 1.1]fase4.ISO.To + [.9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: 1]GRAD + [0: .976]PF75B.MZ+ + [0: .4]PA

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1606.11	-45.65	1614.09	0	-103.39	2	-1577.03	2	-310.41	2.35	-529.71
77	78	97.25	-1606.11	-0.40	1643.83	0	-79.55	2	-1600.20	2	-314.46	2.35	-536.59
78	78	97.25	-1606.11	-0.40	1643.83	0	-79.55	2	-1600.20	2	-314.46	2.35	-536.59
78	79	98.83	-1606.11	50.49	1606.44	0	-108.57	2	-1575.27	2	-308.88	2.35	-527.13
79	79	98.83	-1606.11	50.49	1606.44	0	-108.57	2	-1575.27	2	-308.88	2.35	-527.13
79	80	100.40	-1606.11	95.27	1496.23	0	-194.33	2	-1500.97	2	-292.59	2.35	-499.43
80	80	100.40	-1606.11	95.27	1496.23	0	-194.33	2	-1500.97	2	-292.59	2.35	-499.43
80	81	101.98	-1606.11	133.20	1316.90	0	-334.31	2	-1378.09	2	-266.28	2.35	-454.73
81	81	101.98	-1606.11	133.20	1316.90	0	-334.31	2	-1378.09	2	-266.28	2.35	-454.73
81	82	103.55	-1606.11	178.13	1066.10	0	-530.11	2	-1206.13	2	-229.52	2.35	-392.24
82	82	103.55	-1606.20	206.42	1066.24	0	-529.55	2	-1206.00	2	-229.85	2.35	-392.57
82	83	105.13	-1606.37	257.56	698.57	0	-830.30	2	-892.89	2	-182.65	2.35	-312.26
83	83	105.13	-1606.37	257.56	698.57	0	-663.03	2	-900.62	2	-263.43	2.35	-404.85
83	84	106.70	-1606.43	302.45	263.21	0	-1003.86	2	-558.97	2	-182.39	2.35	-280.41
84	84	106.70	-1095.90	274.16	595.71	0	-334.49	2	-802.59	2	-181.91	2.35	-279.93
84	85	108.28	-1095.90	261.58	168.94	0	-659.81	2	-501.17	2	-95.65	2.35	-147.54
85	85	108.28	-1095.90	261.58	168.94	0	-671.59	2	-456.63	2	-105.81	2.35	-162.82
85	86	109.85	-1096.84	227.01	-226.73	0	-983.69	2	-140.35	2	-33.13	2.35	-51.31
86	86	109.85	-585.73	227.09	120.20	0	-298.49	2	-407.77	2	-33.13	2.35	-51.31
86	87	111.43	-585.73	217.53	-226.53	0	-584.39	2	-81.04	2	21.01	2.35	31.67
87	87	111.43	-585.73	217.53	-226.53	0	-584.39	2	-81.04	2	21.01	2.35	31.67
87	88	112.00	-585.73	215.65	-348.24	0	-687.23	2	43.04	2	38.19	2.35	57.98
88	88	112.00	-801.66	215.65	343.92	0	-113.62	2	-1283.88	2	38.19	2.35	57.98
88	89	113.00	-801.66	215.58	132.87	0	-295.17	2	-1056.50	2	65.57	2.35	99.91
89	1089	113.00	-801.66	-221.30	132.87	0	-295.17	2	-1056.50	2	65.57	2.35	99.91
89	90	114.00	-801.66	-221.34	349.70	0	-109.89	2	-1285.41	2	36.52	2.35	55.41
90	90	114.00	-585.73	-221.34	-342.46	0	-683.50	2	41.52	2	36.52	2.35	55.41
90	91	114.58	-585.73	-221.30	-217.52	0	-578.59	2	-83.37	2	18.40	2.35	27.66
91	91	114.58	-585.73	-221.30	-217.52	0	-578.59	2	-83.37	2	18.40	2.35	27.66
91	92	116.15	-585.73	-230.70	135.43	0	-288.73	2	-411.54	2	-37.57	2.35	-58.14
92	92	116.15	-1096.79	-230.62	-211.51	0	-973.89	2	-144.09	2	-37.57	2.35	-58.14
92	93	117.73	-1095.86	-264.71	187.95	0	-659.44	2	-461.04	2	-111.41	2.35	-171.42
93	93	117.73	-1095.86	-264.71	187.95	0	-647.25	2	-507.19	2	-100.87	2.35	-155.59
93	94	119.30	-1095.86	-270.61	614.59	0	-322.02	2	-808.55	2	-187.08	2.35	-287.91
94	94	119.30	-1606.40	-298.90	282.09	0	-991.39	2	-564.94	2	-187.57	2.35	-288.40
94	95	120.88	-1606.34	-254.02	711.89	0	-654.25	2	-904.80	2	-267.06	2.35	-410.44
95	95	120.88	-1606.34	-254.02	711.89	0	-821.30	2	-895.71	2	-185.09	2.35	-316.50
95	96	122.45	-1606.17	-202.87	1074.01	0	-524.31	2	-1207.57	2	-231.20	2.35	-394.95
96	96	122.45	-1606.11	-174.58	1073.88	0	-524.87	2	-1207.71	2	-230.87	2.35	-394.63
96	97	124.03	-1606.11	-129.66	1319.10	0	-332.86	2	-1378.40	2	-266.53	2.35	-455.24
97	97	124.03	-1606.11	-129.66	1319.10	0	-332.86	2	-1378.40	2	-266.53	2.35	-455.24
97	98	125.60	-1606.11	-91.73	1492.85	0	-196.66	2	-1499.99	2	-291.74	2.35	-498.08
98	98	125.60	-1606.11	-91.73	1492.85	0	-196.66	2	-1499.99	2	-291.74	2.35	-498.08
98	99	127.18	-1606.11	-46.95	1597.50	0	-114.66	2	-1573.07	2	-306.93	2.35	-523.91
99	99	127.18	-1606.11	-46.95	1597.50	0	-114.66	2	-1573.07	2	-306.93	2.35	-523.91
99	100	128.75	-1606.11	-1.70	1629.35	0	-89.39	2	-1596.73	2	-311.41	2.35	-531.52
100	100	128.75	-1606.11	-1.70	1629.35	0	-89.39	2	-1596.73	2	-311.41	2.35	-531.52
100	101	130.33	-1606.11	49.19	1594.02	0	-117.02	2	-1572.29	2	-306.26	2.35	-522.76
101	101	130.33	-1606.11	49.19	1594.02	0	-117.02	2	-1572.29	2	-306.26	2.35	-522.76
101	102	131.90	-1606.11	93.98	1485.87	0	-201.38	2	-1498.44	2	-290.39	2.35	-495.77
102	102	131.90	-1606.11	93.98	1485.87	0	-201.38	2	-1498.44	2	-290.39	2.35	-495.77
102	103	133.48	-1606.11	131.89	1308.65	0	-339.94	2	-1376.05	2	-264.52	2.35	-451.80
103	103	133.48	-1606.11	131.89	1308.65	0	-339.94	2	-1376.05	2	-264.52	2.35	-451.80
103	104	135.05	-1606.11	176.84	1059.91	0	-534.33	2	-1204.60	2	-228.17	2.35	-390.02
104	104	135.05	-1606.19	205.13	1060.04	0	-533.77	2	-1204.46	2	-228.50	2.35	-390.34
104	105	136.63	-1606.34	256.25	694.51	0	-833.06	2	-891.83	2	-181.73	2.35	-310.76
105	105	136.63	-1606.34	256.25	694.51	0	-665.72	2	-899.24	2	-262.23	2.35	-403.03
105	106	138.20	-1606.45	301.14	261.18	0	-1005.22	2	-558.27	2	-181.78	2.35	-279.49
106	106	138.20	-1095.98	272.83	593.68	0	-335.87	2	-801.91	2	-181.31	2.35	-279.02
106	107	139.78	-1095.98	240.97	176.34	0	-654.96	2	-503.52	2	-97.69	2.35	-150.67
107	107	139.78	-1095.98	240.97	176.34	0	-669.59	2	-448.29	2	-110.27	2.35	-169.60
107	108	141.35	-1096.92	208.28	-188.42	0	-961.49	2	-141.14	2	-46.35	2.35	-71.55
108	108	141.35	-585.73	208.37	158.51	0	-276.24	2	-408.50	2	-46.35	2.35	-71.55
108	109	142.93	-585.73	209.08	-166.86	0	-548.24	2	-87.84	2	1.68	2.35	2.05
109	109	142.93	-585.73	209.08	-166.86	0	-548.24	2	-87.84	2	1.68	2.35	2.05
109	110	143.50	-585.73	194.52	-283.56	0	-647.85	2	34.92	2	17.39	2.35	26.12
110	110	143.50	-801.66	194.52	408.59	0	-74.24	2	-1292.00	2	17.39	2.35	26.12
110	111	144.50	-801.66	208.95	204.91	0	-251.06	2	-1066.49	2	42.62	2.35	64.73
111	1111	144.50	-801.66	-183.54	204.91	0	-251.06	2	-1066.49	2	42.62	2.35	64.73
111	112	145.50	-801.66	-176.25	385.11	0	-99.41	2	-1247.87	2	16.65	2.35	24.97
112	112	145.50	-476.41	-176.25	-230.52	0	-524.08	2	17.88	2	16.65	2.35	24.97
112	113	145.68	-476.41	-182.55	-199.24	0	-498.17	2	-12.03	2	11.83	2.35	17.60
113	113	145.68	-476.41	-182.55	-199.24	0	-498.17	2	-12.03	2	11.83	2.35	17.60
113	114	146.85	-476.41	-191.52	18.70	0	-321.09	2	-207.45	2	-24.25	2.35	-37.70
114	114	146.85	-878.82	-191.31	-253.88	0	-859.98	2	2.12	2	-24.25	2.35	-37.70
114	115	148.03	-877.89	-233.06	-7.68	0	-667.40	2	-187.48	2	-70.95	2.35	-109.32

CÁLCULO TENSIONAL

Hipótesis de cálculo:

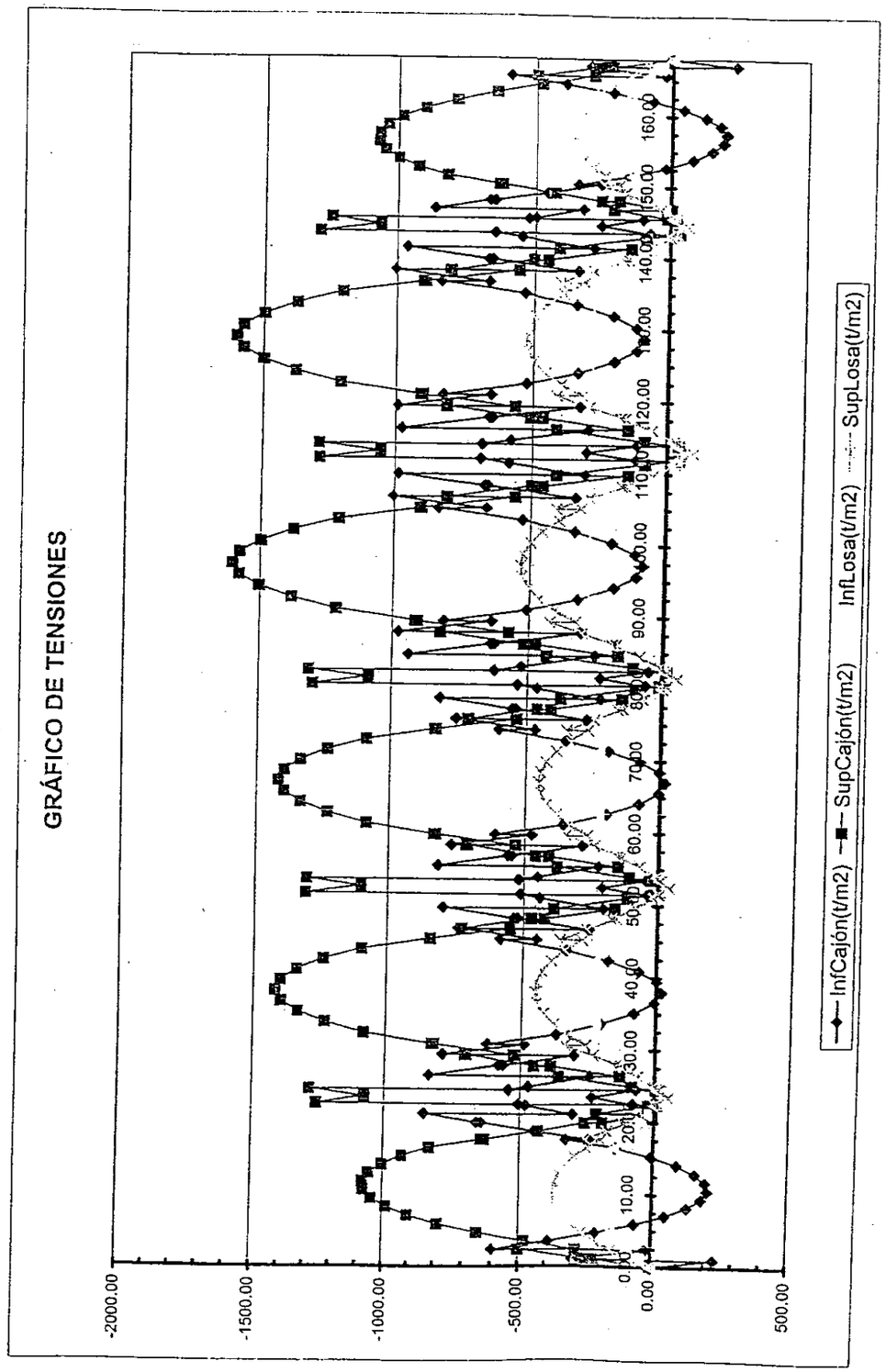
INFREC1.GRAD.To.MZ+

Infrecuentes con gradiente. Dominante GRAD

1: 1]Pvigas + [.95: 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [.9: 1.1]fase4.ISO.To + [.9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: 1]GRAD + [0: .976]PF75B.MZ+ + [0: .4]PASI

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.89	-233.06	-7.68	0	-649.85	2	-252.99	2	-56.16	2.35	-86.99
115	116	149.20	-877.89	-201.54	250.96	0	-454.43	2	-429.08	2	-109.96	2.35	-169.51
116	116	149.20	-877.53	-222.35	251.08	0	-453.67	2	-428.66	2	-110.24	2.35	-169.79
116	117	150.38	-877.76	-214.51	507.73	0	-254.38	2	-624.43	2	-159.43	2.35	-245.25
117	117	150.38	-877.76	-214.51	507.73	0	-341.04	2	-635.18	2	-109.29	2.35	-187.71
117	118	151.55	-877.67	-181.06	744.55	0	-151.63	2	-817.99	2	-142.06	2.35	-243.33
118	118	151.55	-877.27	-160.36	744.44	0	-152.07	2	-818.07	2	-141.63	2.35	-242.90
118	119	152.73	-877.27	-127.09	917.01	0	-20.30	2	-923.31	2	-168.67	2.35	-288.72
119	119	152.73	-877.27	-127.09	917.01	0	-20.30	2	-923.31	2	-168.67	2.35	-288.72
119	120	153.90	-877.27	-99.58	1049.23	0	80.02	2	-1001.12	2	-189.79	2.35	-324.46
120	120	153.90	-877.27	-99.58	1049.23	0	80.02	2	-1001.12	2	-189.79	2.35	-324.46
120	121	155.08	-877.27	-60.85	1143.81	0	150.72	2	-1052.07	2	-205.50	2.35	-351.00
121	121	155.08	-877.27	-60.85	1143.81	0	150.72	2	-1052.07	2	-205.50	2.35	-351.00
121	122	156.25	-877.27	-32.88	1198.94	0	190.57	2	-1075.77	2	-215.44	2.35	-367.76
122	122	156.25	-877.27	-32.88	1198.94	0	190.57	2	-1075.77	2	-215.44	2.35	-367.76
122	123	157.43	-877.27	6.63	1216.32	0	200.74	2	-1072.62	2	-219.96	2.35	-375.28
123	123	157.43	-877.27	6.63	1216.32	0	200.74	2	-1072.62	2	-219.96	2.35	-375.28
123	124	158.60	-877.27	33.36	1192.25	0	178.71	2	-1041.79	2	-218.33	2.35	-372.36
124	124	158.60	-877.27	33.36	1192.25	0	178.71	2	-1041.79	2	-218.33	2.35	-372.36
124	125	159.78	-877.27	66.80	1129.51	0	126.35	2	-983.87	2	-211.09	2.35	-359.90
125	125	159.78	-877.27	66.80	1129.51	0	126.35	2	-983.87	2	-211.09	2.35	-359.90
125	126	160.95	-877.27	100.06	1028.43	0	43.92	2	-898.97	2	-198.31	2.35	-338.02
126	126	160.95	-877.27	100.06	1028.43	0	43.92	2	-898.97	2	-198.31	2.35	-338.02
126	127	162.13	-877.27	140.06	887.30	0	-69.76	2	-786.69	2	-179.65	2.35	-306.16
127	127	162.13	-877.27	140.06	887.30	0	-69.76	2	-786.69	2	-179.65	2.35	-306.16
127	128	163.30	-877.27	173.62	705.80	0	-214.91	2	-646.95	2	-155.06	2.35	-264.20
128	128	163.30	-877.27	173.62	705.80	0	-214.91	2	-646.95	2	-155.06	2.35	-264.20
128	129	164.48	-877.27	207.06	485.92	0	-390.17	2	-480.24	2	-124.91	2.35	-212.80
129	129	164.48	-877.27	207.06	485.92	0	-390.17	2	-480.24	2	-124.91	2.35	-212.80
129	130	165.65	-877.27	240.34	228.51	0	-594.99	2	-286.67	2	-89.38	2.35	-152.25
130	130	165.65	-476.41	240.34	478.64	0	-23.79	2	-498.80	2	-89.38	2.35	-152.25
130	131	166.83	-476.41	273.65	180.06	0	-260.60	2	-277.65	2	-47.76	2.35	-81.34
131	131	166.83	-476.41	273.65	180.06	0	-260.60	2	-277.65	2	-47.76	2.35	-81.34
131	132	167.00	-476.41	278.69	132.08	0	-298.61	2	-242.31	2	-41.04	2.35	-69.90
132	132	167.00	0.00	278.69	295.36	0	234.62	2	-220.40	2	-41.04	2.35	-69.90
132	133	168.00	0.00	152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

INFREC1.IPF75B.EnvTrenGen.MZ+.To.MZ+

Frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+

1]Pvigas + [.95; 1.05]Fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]Fase4.ISO.To + [.9; 1.1]Fase4.HIP.To + [1; 1]HSCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 6]GRAD + [0; 1.22]IPF75B.MZ+ + [0; .5]PAS

ef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-309.06	327.20	0	256.18	2	-227.54	2	-47.21	2.35	-80.42
2	2	1.00	-476.41	-309.05	163.93	0	-277.05	2	-249.45	2	-47.21	2.35	-80.42
2	3	1.18	-476.41	-303.43	217.02	0	-235.60	2	-285.89	2	-54.92	2.35	-93.55
3	3	1.18	-476.41	-303.43	217.02	0	-235.60	2	-285.89	2	-54.92	2.35	-93.55
3	4	2.35	-476.41	-266.33	547.52	0	22.82	2	-514.17	2	-102.73	2.35	-175.02
4	4	2.35	-877.27	-266.33	297.39	0	-548.38	2	-302.04	2	-102.73	2.35	-175.02
4	5	3.53	-877.27	-229.28	581.75	0	-325.33	2	-501.62	2	-143.49	2.35	-244.48
5	5	3.53	-877.27	-229.28	581.75	0	-325.33	2	-501.62	2	-143.49	2.35	-244.48
5	6	4.70	-877.27	-192.04	824.58	0	-134.54	2	-673.46	2	-178.09	2.35	-303.47
6	6	4.70	-877.27	-192.04	824.58	0	-134.54	2	-673.46	2	-178.09	2.35	-303.47
6	7	5.88	-877.27	-154.61	1024.72	0	23.23	2	-817.37	2	-206.30	2.35	-351.60
7	7	5.88	-877.27	-154.61	1024.72	0	23.23	2	-817.37	2	-206.30	2.35	-351.60
7	8	7.05	-877.27	-109.17	1179.81	0	146.36	2	-932.77	2	-227.67	2.35	-388.09
8	8	7.05	-877.27	-109.17	1179.81	0	146.36	2	-932.77	2	-227.67	2.35	-388.09
8	9	8.23	-877.27	-72.14	1290.12	0	235.04	2	-1019.75	2	-242.25	2.35	-413.04
9	9	8.23	-877.27	-72.14	1290.12	0	235.04	2	-1019.75	2	-242.25	2.35	-413.04
9	10	9.40	-877.27	-34.89	1357.88	0	290.79	2	-1078.81	2	-250.48	2.35	-427.17
10	10	9.40	-877.27	-34.89	1357.88	0	290.79	2	-1078.81	2	-250.48	2.35	-427.17
10	11	10.58	-877.27	-6.03	1382.62	0	313.28	2	-1109.81	2	-252.25	2.35	-430.34
11	11	10.58	-877.27	-6.03	1382.62	0	313.28	2	-1109.81	2	-252.25	2.35	-430.34
11	12	11.75	-877.27	38.84	1360.88	0	300.16	2	-1112.00	2	-246.91	2.35	-421.39
12	12	11.75	-877.27	38.84	1360.88	0	300.16	2	-1112.00	2	-246.91	2.35	-421.39
12	13	12.93	-877.27	69.25	1297.29	0	254.60	2	-1086.44	2	-235.35	2.35	-401.87
13	13	12.93	-877.27	69.25	1297.29	0	254.60	2	-1086.44	2	-235.35	2.35	-401.87
13	14	14.10	-877.27	113.12	1189.75	0	175.13	2	-1032.63	2	-217.16	2.35	-371.07
14	14	14.10	-877.27	113.12	1189.75	0	175.13	2	-1032.63	2	-217.16	2.35	-371.07
14	15	15.28	-877.27	142.97	1040.47	0	63.27	2	-951.05	2	-192.76	2.35	-329.73
15	15	15.28	-877.27	142.97	1040.47	0	63.27	2	-951.05	2	-192.76	2.35	-329.73
15	16	16.45	-877.27	180.00	846.14	0	-83.21	2	-840.98	2	-161.53	2.35	-276.75
16	16	16.45	-877.89	200.72	846.25	0	-82.85	2	-840.97	2	-162.02	2.35	-277.24
16	17	17.63	-878.03	237.97	583.04	0	-290.12	2	-652.33	2	-124.18	2.35	-212.96
17	17	17.63	-878.03	237.97	583.04	0	-204.70	2	-648.72	2	-180.54	2.35	-277.59
17	18	18.80	-877.86	250.14	286.30	0	-430.47	2	-440.18	2	-120.24	2.35	-185.07
18	18	18.80	-877.89	229.35	286.18	0	-431.13	2	-440.50	2	-119.87	2.35	-184.70
18	19	19.98	-877.89	255.93	-5.63	0	-648.45	2	-253.82	2	-56.88	2.35	-88.05
19	19	19.98	-877.89	255.93	-5.63	0	-666.01	2	-188.31	2	-71.67	2.35	-110.38
19	20	21.15	-878.83	206.22	-268.28	0	-869.44	2	6.52	2	-20.42	2.35	-31.76
20	20	21.15	-476.41	206.43	4.31	0	-330.54	2	-203.05	2	-20.42	2.35	-31.76
20	21	22.33	-476.41	189.86	-222.75	0	-513.64	2	-4.71	2	18.18	2.35	27.41
21	21	22.33	-476.41	189.86	-222.75	0	-513.64	2	-4.71	2	18.18	2.35	27.41
21	22	22.50	-476.41	181.02	-254.82	0	-540.08	2	25.47	2	23.21	2.35	35.11
22	22	22.50	-801.66	181.02	360.81	0	-115.41	2	-1240.28	2	23.21	2.35	35.11
22	23	23.50	-801.66	184.69	177.78	0	-268.92	2	-1058.02	2	49.96	2.35	76.07
23	1023	23.50	-801.66	-188.21	177.78	0	-268.92	2	-1058.02	2	49.96	2.35	76.07
23	24	24.50	-801.66	-191.04	363.07	0	-107.59	2	-1265.01	2	27.36	2.35	41.49
24	24	24.50	-512.85	-191.04	-278.07	0	-581.90	2	21.13	2	27.36	2.35	41.49
24	25	24.95	-512.85	-195.38	-194.39	0	-510.44	2	-67.05	2	16.12	2.35	24.27
25	25	24.95	-512.85	-195.38	-194.39	0	-510.44	2	-67.05	2	16.12	2.35	24.27
25	26	26.40	-512.85	-200.47	88.57	0	-275.09	2	-341.35	2	-26.56	2.35	-41.13
26	26	26.40	-951.16	-200.35	-208.80	0	-862.54	2	-112.28	2	-26.56	2.35	-41.13
26	27	27.85	-950.23	-235.88	124.58	0	-599.02	2	-380.45	2	-87.44	2.35	-134.53
27	27	27.85	-950.23	-235.88	124.58	0	-582.61	2	-442.37	2	-73.33	2.35	-113.31
27	28	29.30	-950.23	-278.23	503.83	0	-295.29	2	-703.47	2	-151.31	2.35	-233.00
28	28	29.30	-1315.16	-303.38	266.37	0	-773.32	2	-529.47	2	-151.83	2.35	-233.53
28	29	30.75	-1315.03	-257.19	678.51	0	-456.42	2	-831.00	2	-232.83	2.35	-357.92
29	29	30.75	-1315.03	-257.19	678.51	0	-589.86	2	-832.10	2	-160.87	2.35	-275.42
29	30	32.20	-1314.89	-210.75	1024.48	0	-312.27	2	-1102.78	2	-207.78	2.35	-355.27
30	30	32.20	-1314.57	-185.60	1024.35	0	-312.74	2	-1102.86	2	-207.39	2.35	-354.88
30	31	33.65	-1314.57	-140.55	1264.90	0	-127.86	2	-1254.86	2	-243.97	2.35	-417.09
31	31	33.65	-1314.57	-140.55	1264.90	0	-127.86	2	-1254.86	2	-243.97	2.35	-417.09
31	32	35.10	-1314.57	-102.24	1440.81	0	6.97	2	-1364.33	2	-270.91	2.35	-462.89
32	32	35.10	-1314.57	-102.24	1440.81	0	6.97	2	-1364.33	2	-270.91	2.35	-462.89
32	33	36.55	-1314.57	-47.92	1550.41	0	90.61	2	-1430.95	2	-287.86	2.35	-491.72
33	33	36.55	-1314.57	-47.92	1550.41	0	90.61	2	-1430.95	2	-287.86	2.35	-491.72
33	34	38.00	-1314.57	-9.61	1590.50	0	120.91	2	-1453.99	2	-294.23	2.35	-502.54
34	34	38.00	-1314.57	-9.61	1590.50	0	120.91	2	-1453.99	2	-294.23	2.35	-502.54
34	35	39.45	-1314.57	35.44	1568.53	0	102.89	2	-1435.07	2	-291.44	2.35	-497.80
35	35	39.45	-1314.57	35.44	1568.53	0	102.89	2	-1435.07	2	-291.44	2.35	-497.80
35	36	40.90	-1314.57	89.75	1476.99	0	31.48	2	-1372.56	2	-278.05	2.35	-475.01
36	36	40.90	-1314.57	89.75	1476.99	0	31.48	2	-1372.56	2	-278.05	2.35	-475.01
36	37	42.35	-1314.57	128.06	1319.23	0	-91.05	2	-1267.21	2	-254.70	2.35	-435.29
37	37	42.35	-1314.57	128.06	1319.23	0	-91.05	2	-1267.21	2	-254.70	2.35	-435.29
37	38	43.80	-1314.57	173.10	1096.78	0	-263.67	2	-1119.33	2	-221.69	2.35	-379.15
38	38	43.80	-1314.77	198.26	1096.91	0	-263.16	2	-1119.21	2	-222.05	2.35	-379.50
38	39	45.25	-1314.92	244.72	769.01	0	-528.52	2	-852.65	2	-178.72	2.35	-305.72

CÁLCULO TENSIONAL

Hipótesis de cálculo:

INFREC1.IPF75B.EnvTrenGen.MZ+.To.MZ+

...ntes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+

...1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ+ + [0; .5]PAS

...ef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1314.92	244.72	769.01	0	-396.58	2	-860.11	2	-258.11	2.35	-396.73
39	40	46.70	-1315.07	290.90	375.01	0	-701.49	2	-564.42	2	-182.19	2.35	-280.11
40	40	46.70	-950.07	265.76	612.47	0	-223.44	2	-738.40	2	-181.64	2.35	-279.57
40	41	48.15	-950.07	250.42	226.30	0	-515.32	2	-475.13	2	-101.78	2.35	-156.97
41	41	48.15	-950.07	250.42	226.30	0	-529.02	2	-423.22	2	-113.64	2.35	-174.79
41	42	49.60	-951.01	217.54	-115.75	0	-797.89	2	-153.76	2	-50.07	2.35	-77.25
42	42	49.60	-512.85	217.62	181.62	0	-210.53	2	-382.93	2	-50.07	2.35	-77.25
42	43	51.05	-512.85	200.28	-114.07	0	-453.88	2	-106.05	2	-3.58	2.35	-5.98
43	43	51.05	-512.85	200.28	-114.07	0	-453.88	2	-106.05	2	-3.58	2.35	-5.98
43	44	51.50	-512.85	196.00	-201.01	0	-527.38	2	-17.28	2	8.66	2.35	12.76
44	44	51.50	-801.66	196.00	440.13	0	-53.07	2	-1303.42	2	8.66	2.35	12.76
44	45	52.50	-801.66	193.23	249.19	0	-217.86	2	-1095.66	2	33.02	2.35	50.07
45	1045	52.50	-801.66	-180.80	249.19	0	-217.86	2	-1095.66	2	33.02	2.35	50.07
45	46	53.50	-801.66	-183.61	427.51	0	-61.30	2	-1299.77	2	12.24	2.35	18.27
46	46	53.50	-512.85	-183.61	-213.63	0	-535.62	2	-13.62	2	12.24	2.35	18.27
46	47	53.95	-512.85	-187.93	-132.52	0	-465.93	2	-100.70	2	1.66	2.35	2.07
47	47	53.95	-512.85	-187.93	-132.52	0	-465.93	2	-100.70	2	1.66	2.35	2.07
47	48	55.40	-512.85	-209.24	145.80	0	-233.90	2	-372.55	2	-39.90	2.35	-61.63
...	48	55.40	-951.06	-209.14	-151.57	0	-821.29	2	-143.41	2	-39.90	2.35	-61.63
...	49	56.85	-950.13	-236.61	182.93	0	-557.27	2	-411.01	2	-101.26	2.35	-155.76
...	49	56.85	-950.13	-236.61	182.93	0	-543.97	2	-461.31	2	-89.78	2.35	-138.51
49	50	58.30	-950.13	-273.37	562.56	0	-256.41	2	-722.49	2	-167.83	2.35	-258.32
50	50	58.30	-1315.13	-298.52	325.10	0	-734.46	2	-548.51	2	-168.37	2.35	-258.87
50	51	59.75	-1315.00	-252.33	730.15	0	-422.26	2	-847.73	2	-247.37	2.35	-380.20
51	51	59.75	-1315.00	-252.33	730.15	0	-554.83	2	-844.07	2	-171.26	2.35	-292.96
51	52	61.20	-1314.84	-205.89	1069.19	0	-281.93	2	-1113.11	2	-216.76	2.35	-370.43
52	52	61.20	-1314.57	-180.73	1069.07	0	-282.41	2	-1113.21	2	-216.38	2.35	-370.05
52	53	62.65	-1314.57	-135.69	1302.53	0	-102.34	2	-1263.55	2	-251.52	2.35	-429.84
53	53	62.65	-1314.57	-135.69	1302.53	0	-102.34	2	-1263.55	2	-251.52	2.35	-429.84
53	54	64.10	-1314.57	-97.38	1471.40	0	27.71	2	-1371.38	2	-277.03	2.35	-473.24
54	54	64.10	-1314.57	-97.38	1471.40	0	27.71	2	-1371.38	2	-277.03	2.35	-473.24
54	55	65.55	-1314.57	-43.06	1574.01	0	106.61	2	-1436.36	2	-292.56	2.35	-499.68
55	55	65.55	-1314.57	-43.06	1574.01	0	106.61	2	-1436.36	2	-292.56	2.35	-499.68
55	56	67.00	-1314.57	-4.75	1607.04	0	132.11	2	-1457.74	2	-297.49	2.35	-508.08
56	56	67.00	-1314.57	-4.75	1607.04	0	132.11	2	-1457.74	2	-297.49	2.35	-508.08
56	57	68.45	-1314.57	40.28	1578.09	0	109.36	2	-1437.20	2	-293.29	2.35	-500.95
57	57	68.45	-1314.57	40.28	1578.09	0	109.36	2	-1437.20	2	-293.29	2.35	-500.95
57	58	69.90	-1314.57	94.58	1479.50	0	33.16	2	-1373.04	2	-278.47	2.35	-475.76
58	58	69.90	-1314.57	94.58	1479.50	0	33.16	2	-1373.04	2	-278.47	2.35	-475.76
58	59	71.35	-1314.57	132.91	1314.74	0	-94.12	2	-1266.05	2	-253.69	2.35	-433.64
59	59	71.35	-1314.57	132.91	1314.74	0	-94.12	2	-1266.05	2	-253.69	2.35	-433.64
59	60	72.80	-1314.57	177.94	1085.28	0	-271.50	2	-1116.53	2	-219.26	2.35	-375.09
60	60	72.80	-1314.81	203.10	1085.40	0	-271.01	2	-1116.42	2	-219.63	2.35	-375.46
60	61	74.25	-1314.98	249.55	750.41	0	-541.18	2	-848.21	2	-174.86	2.35	-299.26
...	61	74.25	-1314.98	249.55	750.41	0	-408.92	2	-854.02	2	-252.82	2.35	-388.64
...	62	75.70	-1315.09	295.73	349.44	0	-718.43	2	-556.05	2	-174.92	2.35	-269.00
...	62	75.70	-950.17	270.58	586.90	0	-240.41	2	-730.06	2	-174.40	2.35	-268.47
62	63	77.15	-950.17	252.48	201.46	0	-531.81	2	-466.98	2	-94.70	2.35	-146.15
63	63	77.15	-950.17	252.48	201.46	0	-545.80	2	-414.12	2	-106.76	2.35	-164.27
63	64	78.60	-951.11	214.14	-150.56	0	-821.50	2	-140.53	2	-40.59	2.35	-62.75
64	64	78.60	-512.85	214.24	146.81	0	-234.08	2	-369.63	2	-40.59	2.35	-62.75
64	65	80.05	-512.85	197.00	-149.36	0	-478.00	2	-91.66	2	5.87	2.35	8.47
65	65	80.05	-512.85	197.00	-149.36	0	-478.00	2	-91.66	2	5.87	2.35	8.47
65	66	80.50	-512.85	192.71	-235.44	0	-551.01	2	-2.87	2	17.82	2.35	26.76
66	66	80.50	-801.66	192.71	405.69	0	-76.70	2	-1289.02	2	17.82	2.35	26.76
66	67	81.50	-801.66	189.95	217.59	0	-239.79	2	-1081.51	2	41.28	2.35	62.67
67	1067	81.50	-801.66	-202.22	217.59	0	-239.79	2	-1081.51	2	41.28	2.35	62.67
67	68	82.50	-801.66	-208.07	416.30	0	-66.34	2	-1305.11	2	17.37	2.35	26.09
68	68	82.50	-585.73	-208.07	-275.85	0	-639.95	2	21.82	2	17.37	2.35	26.09
68	69	83.08	-585.73	-213.33	-158.87	0	-540.22	2	-100.81	2	1.53	2.35	1.83
69	69	83.08	-585.73	-213.33	-158.87	0	-540.22	2	-100.81	2	1.53	2.35	1.83
69	70	84.65	-585.73	-232.61	181.19	0	-258.67	2	-425.61	2	-50.68	2.35	-78.20
70	70	84.65	-1096.87	-232.51	-165.75	0	-943.88	2	-158.20	2	-50.68	2.35	-78.20
70	71	86.23	-1095.94	-271.06	235.78	0	-627.86	2	-476.57	2	-124.91	2.35	-192.09
71	71	86.23	-1095.94	-271.06	235.78	0	-615.64	2	-522.74	2	-114.38	2.35	-176.26
71	72	87.80	-1095.94	-300.91	703.34	0	-263.40	2	-837.16	2	-211.93	2.35	-326.01
72	72	87.80	-1606.68	-329.20	370.84	0	-932.83	2	-593.60	2	-212.47	2.35	-326.55
72	73	89.38	-1606.57	-279.20	842.81	0	-567.83	2	-946.91	2	-303.63	2.35	-466.55
73	73	89.38	-1606.57	-279.20	842.81	0	-732.72	2	-925.33	2	-210.82	2.35	-360.20
...	74	90.95	-1606.34	-221.36	1239.70	0	-412.20	2	-1244.86	2	-263.61	2.35	-450.07
...	74	90.95	-1606.11	-193.08	1239.57	0	-412.71	2	-1244.95	2	-263.24	2.35	-449.70
74	75	92.53	-1606.11	-143.01	1511.25	0	-202.60	2	-1421.50	2	-303.99	2.35	-519.02
75	75	92.53	-1606.11	-143.01	1511.25	0	-202.80	2	-1421.50	2	-303.99	2.35	-519.02
75	76	94.10	-1606.11	-101.69	1703.19	0	-54.29	2	-1547.13	2	-332.68	2.35	-567.83
76	76	94.10	-1606.11	-101.69	1703.19	0	-54.29	2	-1547.13	2	-332.68	2.35	-567.83
76	77	95.68	-1606.11	-51.80	1818.30	0	34.77	2	-1622.47	2	-349.87	2.35	-597.08

CÁLCULO TENSIONAL

Hipótesis de cálculo:

INFREC1.IPF75B.EnvTrenGen.MZ+.To.MZ+

frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+

...1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ+ + [0; .5]PAS

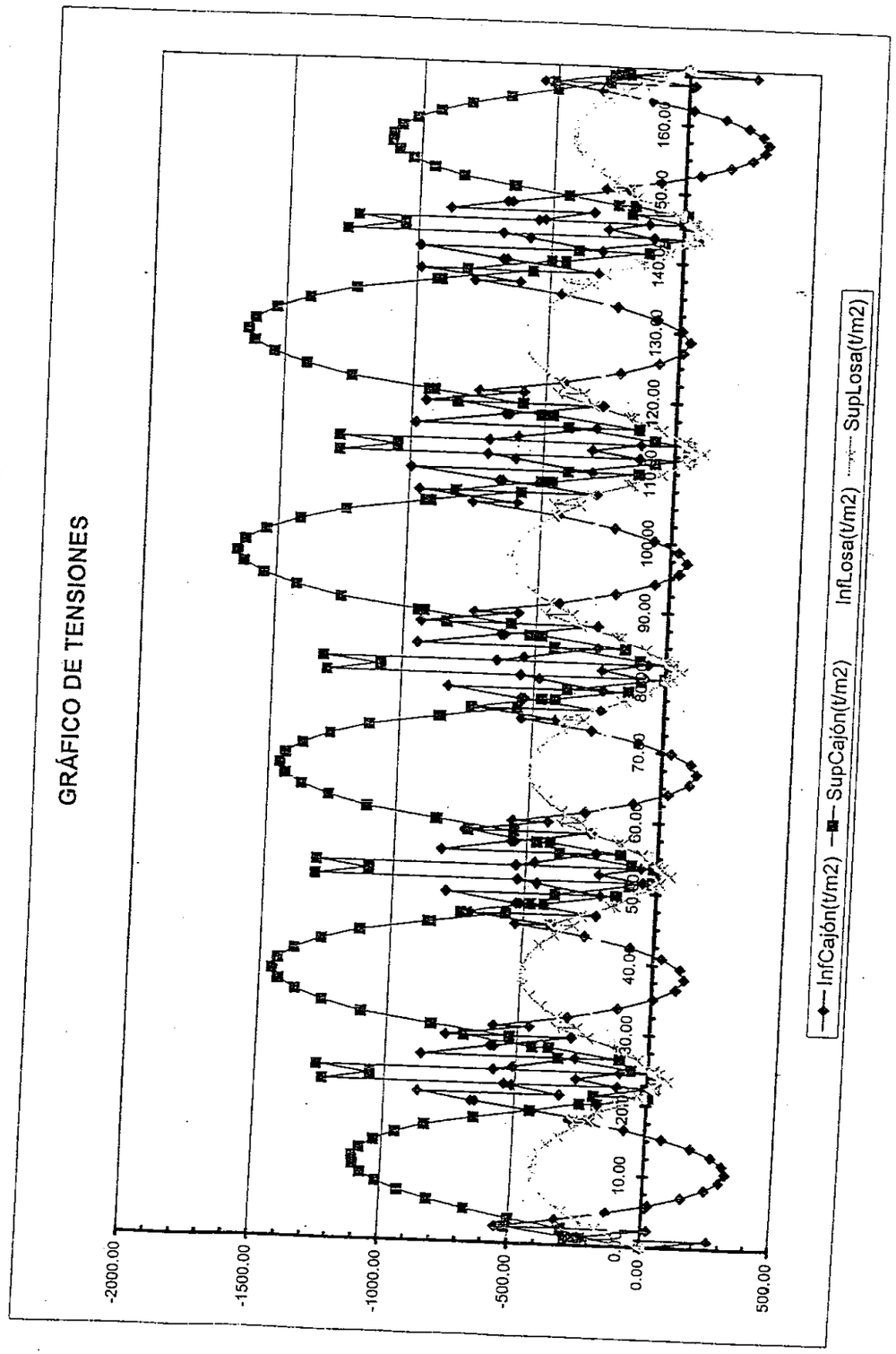
...ef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1606.11	-51.80	1818.30	0	34.77	2	-1622.47	2	-349.87	2.35	-597.08
77	78	97.25	-1606.11	-1.33	1851.99	0	61.28	2	-1646.52	2	-354.69	2.35	-605.27
78	78	97.25	-1606.11	-1.33	1851.99	0	61.28	2	-1646.52	2	-354.69	2.35	-605.27
78	79	98.83	-1606.11	56.19	1811.36	0	30.06	2	-1620.87	2	-348.48	2.35	-594.73
79	79	98.83	-1606.11	56.19	1811.36	0	30.06	2	-1620.87	2	-348.48	2.35	-594.73
79	80	100.40	-1606.11	106.08	1689.30	0	-63.71	2	-1543.93	2	-329.90	2.35	-563.13
80	80	100.40	-1606.11	106.08	1689.30	0	-63.71	2	-1543.93	2	-329.90	2.35	-563.13
80	81	101.98	-1606.11	147.40	1490.43	0	-216.91	2	-1416.70	2	-299.82	2.35	-511.98
81	81	101.98	-1606.11	147.40	1490.43	0	-216.91	2	-1416.70	2	-299.82	2.35	-511.98
81	82	103.55	-1606.11	197.47	1211.83	0	-431.52	2	-1238.56	2	-257.68	2.35	-440.32
82	82	103.55	-1606.37	225.76	1211.96	0	-431.02	2	-1238.48	2	-258.06	2.35	-440.70
82	83	105.13	-1606.61	283.59	808.09	0	-756.28	2	-917.34	2	-203.88	2.35	-348.46
83	83	105.13	-1606.61	283.59	808.09	0	-590.80	2	-935.68	2	-293.88	2.35	-451.61
83	84	106.70	-1606.70	333.61	329.20	0	-960.37	2	-580.14	2	-200.77	2.35	-308.62
84	84	106.70	-1095.90	305.31	661.70	0	-290.91	2	-823.67	2	-200.22	2.35	-308.07
84	85	108.28	-1095.90	289.80	186.95	0	-647.92	2	-506.93	2	-100.64	2.35	-155.22
85	85	108.28	-1095.90	289.80	186.95	0	-659.70	2	-462.38	2	-110.81	2.35	-170.50
85	86	109.85	-1096.84	239.60	-243.54	0	-994.79	2	-134.98	2	-28.46	2.35	-44.15
86	86	109.85	-585.73	239.68	103.39	0	-309.59	2	-402.40	2	-28.46	2.35	-44.15
86	87	111.43	-585.73	220.85	-254.87	0	-603.11	2	-71.99	2	28.88	2.35	43.76
87	87	111.43	-585.73	220.85	-254.87	0	-603.11	2	-71.99	2	28.88	2.35	43.76
87	88	112.00	-585.73	216.12	-376.86	0	-706.13	2	52.19	2	46.13	2.35	70.18
88	88	112.00	-801.66	216.12	315.29	0	-132.52	2	-1274.74	2	46.13	2.35	70.18
88	89	113.00	-801.66	210.32	107.95	0	-311.63	2	-1048.54	2	72.49	2.35	110.53
89	1089	113.00	-801.66	-216.93	107.95	0	-311.63	2	-1048.54	2	72.49	2.35	110.53
89	90	114.00	-801.66	-222.70	321.97	0	-128.20	2	-1276.55	2	44.21	2.35	67.24
90	90	114.00	-585.73	-222.70	-370.18	0	-701.81	2	50.38	2	44.21	2.35	67.24
90	91	114.58	-585.73	-225.02	-244.45	0	-596.37	2	-74.76	2	25.88	2.35	39.14
91	91	114.58	-585.73	-225.02	-244.45	0	-596.37	2	-74.76	2	25.88	2.35	39.14
91	92	116.15	-585.73	-243.65	120.75	0	-298.41	2	-406.85	2	-33.50	2.35	-51.88
92	92	116.15	-1096.79	-243.57	-226.18	0	-983.58	2	-139.40	2	-33.50	2.35	-51.88
92	93	117.73	-1095.86	-293.15	208.20	0	-646.07	2	-467.51	2	-117.03	2.35	-180.06
93	93	117.73	-1095.86	-293.15	208.20	0	-633.88	2	-513.66	2	-106.49	2.35	-164.22
93	94	119.30	-1095.86	-300.04	681.59	0	-277.78	2	-829.95	2	-205.67	2.35	-316.47
94	94	119.30	-1606.66	-328.33	349.09	0	-947.24	2	-586.42	2	-206.23	2.35	-317.03
94	95	120.88	-1606.56	-278.33	819.71	0	-583.13	2	-939.31	2	-297.03	2.35	-456.47
95	95	120.88	-1606.56	-278.33	819.71	0	-748.43	2	-919.77	2	-205.99	2.35	-352.14
95	96	122.45	-1606.33	-220.49	1215.32	0	-428.75	2	-1239.06	2	-258.55	2.35	-441.61
96	96	122.45	-1606.11	-192.20	1215.19	0	-429.27	2	-1239.15	2	-258.18	2.35	-441.25
96	97	124.03	-1606.11	-142.14	1485.50	0	-220.28	2	-1415.43	2	-298.69	2.35	-510.14
97	97	124.03	-1606.11	-142.14	1485.50	0	-220.28	2	-1415.43	2	-298.69	2.35	-510.14
97	98	125.60	-1606.11	-100.81	1676.09	0	-72.69	2	-1540.76	2	-327.15	2.35	-558.53
98	98	125.60	-1606.11	-100.81	1676.09	0	-72.69	2	-1540.76	2	-327.15	2.35	-558.53
98	99	127.18	-1606.11	-50.94	1789.87	0	15.49	2	-1615.87	2	-344.11	2.35	-587.37
99	99	127.18	-1606.11	-50.94	1789.87	0	15.49	2	-1615.87	2	-344.11	2.35	-587.37
99	100	128.75	-1606.11	-0.47	1822.26	0	41.12	2	-1639.66	2	-348.69	2.35	-595.16
100	100	128.75	-1606.11	-0.47	1822.26	0	41.12	2	-1639.66	2	-348.69	2.35	-595.16
100	101	130.33	-1606.11	57.06	1780.25	0	8.98	2	-1613.73	2	-342.25	2.35	-584.20
101	101	130.33	-1606.11	57.06	1780.25	0	8.98	2	-1613.73	2	-342.25	2.35	-584.20
101	102	131.90	-1606.11	106.97	1656.83	0	-85.72	2	-1536.48	2	-323.43	2.35	-552.18
102	102	131.90	-1606.11	106.97	1656.83	0	-85.72	2	-1536.48	2	-323.43	2.35	-552.18
102	103	133.48	-1606.11	148.26	1456.65	0	-239.81	2	-1408.99	2	-293.12	2.35	-500.62
103	103	133.48	-1606.11	148.26	1456.65	0	-239.81	2	-1408.99	2	-293.12	2.35	-500.62
103	104	135.05	-1606.11	198.35	1176.66	0	-455.34	2	-1230.58	2	-250.74	2.35	-428.53
104	104	135.05	-1606.38	226.64	1176.80	0	-454.84	2	-1230.50	2	-251.12	2.35	-428.92
104	105	136.63	-1606.58	284.46	771.66	0	-780.94	2	-909.08	2	-196.71	2.35	-336.29
105	105	136.63	-1606.58	284.46	771.66	0	-614.85	2	-923.96	2	-283.70	2.35	-435.99
105	106	138.20	-1606.75	334.48	291.37	0	-985.38	2	-568.01	2	-190.24	2.35	-292.44
106	106	138.20	-1095.98	306.17	623.87	0	-315.93	2	-811.55	2	-189.69	2.35	-291.90
106	107	139.78	-1095.98	265.44	161.49	0	-664.76	2	-498.78	2	-93.57	2.35	-144.34
107	107	139.78	-1095.98	265.44	161.49	0	-679.40	2	-443.55	2	-106.15	2.35	-163.27
107	108	141.35	-1096.92	217.78	-232.90	0	-990.85	2	-126.93	2	-34.01	2.35	-52.58
108	108	141.35	-585.73	217.87	114.03	0	-305.60	2	-394.30	2	-34.01	2.35	-52.58
108	109	142.93	-585.73	212.26	-220.35	0	-583.56	2	-70.75	2	16.52	2.35	24.85
109	109	142.93	-585.73	212.26	-220.35	0	-583.56	2	-70.75	2	16.52	2.35	24.85
109	110	143.50	-585.73	191.12	-337.19	0	-683.26	2	52.05	2	32.27	2.35	48.98
110	110	143.50	-801.66	191.12	354.97	0	-109.65	2	-1274.87	2	32.27	2.35	48.98
110	111	144.50	-801.66	204.01	154.88	0	-284.09	2	-1050.51	2	56.50	2.35	86.06
111	1111	144.50	-801.66	-185.68	154.86	0	-284.09	2	-1050.51	2	56.50	2.35	86.06
111	112	145.50	-801.66	-181.98	339.10	0	-129.79	2	-1233.17	2	29.42	2.35	44.59
112	112	145.50	-476.41	-181.98	-276.53	0	-554.45	2	32.58	2	29.42	2.35	44.59
112	113	145.68	-476.41	-190.82	-244.05	0	-527.75	2	2.28	2	24.27	2.35	36.70
113	113	145.68	-476.41	-190.82	-244.05	0	-527.75	2	2.28	2	24.27	2.35	36.70
113	114	146.85	-476.41	-207.24	-12.53	0	-341.71	2	-197.47	2	-15.58	2.35	-24.38
114	114	146.85	-878.82	-207.04	-285.12	0	-880.61	2	12.10	2	-15.58	2.35	-24.38
114	115	148.03	-877.89	-264.91	-11.79	0	-670.12	2	-186.17	2	-69.81	2.35	-107.57

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.IPF75B.EnvTrenGen.MZ+.To.MZ+
Frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+
1: ...as + [.95: 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [.9: 1.1]fase4.ISO.To + [.9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: .6]GRAD + [0: 1.22]IPF75B.MZ+ + [0: .5]PA
Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-877.89	-264.91	-11.79	0	-652.56	2	-251.67	2	-55.02	2.35	-85.24
115	116	149.20	-877.89	-229.50	282.90	0	-433.34	2	-439.28	2	-118.82	2.35	-183.13
116	116	149.20	-877.86	-250.31	283.02	0	-432.68	2	-438.96	2	-119.19	2.35	-183.50
116	117	150.38	-878.05	-238.63	571.50	0	-212.36	2	-644.88	2	-177.20	2.35	-272.51
117	117	150.38	-878.05	-238.63	571.50	0	-297.99	2	-649.47	2	-121.69	2.35	-208.83
117	118	151.55	-877.91	-201.36	835.47	0	-90.20	2	-838.29	2	-159.70	2.35	-273.39
118	118	151.55	-877.27	-180.66	835.36	0	-90.56	2	-838.30	2	-159.20	2.35	-272.89
118	119	152.73	-877.27	-143.62	1030.48	0	56.47	2	-948.56	2	-190.61	2.35	-326.16
119	119	152.73	-877.27	-143.62	1030.48	0	56.47	2	-948.56	2	-190.61	2.35	-326.16
119	120	153.90	-877.27	-113.77	1180.52	0	168.84	2	-1030.33	2	-215.16	2.35	-367.77
120	120	153.90	-877.27	-113.77	1180.52	0	168.84	2	-1030.33	2	-215.15	2.35	-367.77
120	121	155.08	-877.27	-69.91	1288.84	0	248.83	2	-1084.34	2	-233.52	2.35	-398.85
121	121	155.08	-877.27	-69.91	1288.84	0	248.83	2	-1084.34	2	-233.52	2.35	-398.85
121	122	156.25	-877.27	-39.48	1353.19	0	294.93	2	-1110.09	2	-245.25	2.35	-418.65
122	122	156.25	-877.27	-39.48	1353.19	0	294.93	2	-1110.09	2	-245.25	2.35	-418.65
122	123	157.43	-877.27	5.36	1375.70	0	308.56	2	-1108.09	2	-250.76	2.35	-427.86
123	123	157.43	-877.27	5.36	1375.70	0	308.56	2	-1108.09	2	-250.76	2.35	-427.86
123	124	158.60	-877.27	34.23	1351.72	0	286.59	2	-1077.27	2	-249.15	2.35	-424.97
124	124	158.60	-877.27	34.23	1351.72	0	286.59	2	-1077.27	2	-249.15	2.35	-424.97
1	125	159.78	-877.27	71.48	1284.73	0	231.37	2	-1018.41	2	-241.09	2.35	-411.11
25	125	159.78	-877.27	71.48	1284.73	0	231.37	2	-1018.41	2	-241.09	2.35	-411.11
125	126	160.95	-877.27	108.52	1175.19	0	143.22	2	-931.62	2	-226.67	2.35	-386.44
126	126	160.95	-877.27	108.52	1175.19	0	143.22	2	-931.62	2	-226.67	2.35	-386.44
126	127	162.13	-877.27	153.97	1020.90	0	20.63	2	-816.42	2	-205.47	2.35	-350.23
127	127	162.13	-877.27	153.97	1020.90	0	20.63	2	-816.42	2	-205.47	2.35	-350.23
127	128	163.30	-877.27	191.38	821.50	0	-136.63	2	-672.69	2	-177.42	2.35	-302.37
128	128	163.30	-877.27	191.38	821.50	0	-136.63	2	-672.69	2	-177.42	2.35	-302.37
128	129	164.48	-877.27	228.64	579.45	0	-326.89	2	-501.05	2	-142.99	2.35	-243.66
129	129	164.48	-877.27	228.64	579.45	0	-326.89	2	-501.05	2	-142.99	2.35	-243.66
129	130	165.65	-877.27	265.68	295.84	0	-549.43	2	-301.65	2	-102.40	2.35	-174.46
130	130	165.65	-476.41	265.68	545.98	0	21.76	2	-513.79	2	-102.40	2.35	-174.46
130	131	166.83	-476.41	302.78	216.23	0	-236.13	2	-285.70	2	-54.75	2.35	-93.27
131	131	166.83	-476.41	302.78	216.23	0	-236.13	2	-285.70	2	-54.75	2.35	-93.27
131	132	167.00	-476.41	308.40	163.20	0	-277.56	2	-249.23	2	-47.06	2.35	-80.17
132	132	167.00	0.00	308.40	326.48	0	255.68	2	-227.33	2	-47.06	2.35	-80.17
132	133	168.00	0.00	152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.GRAD.To.MZ-

Infrecuentes con gradiente. Dominante GRAD

1)Pvigas + [.95: 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [.9: 1.1]fase4.ISO.To + [.9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: 1]GRAD + [0: .976]IPF75B.MZ- + [0: .4]PASE ef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-111.02	121.56	0	117.04	2	-181.75	2	-7.43	2.35	-12.54
2	2	1.00	-526.55	-111.02	-58.90	0	-472.32	2	-205.96	2	-7.43	2.35	-12.54
2	3	1.18	-526.55	-108.52	-39.69	0	-453.78	2	-234.85	2	-8.59	2.35	-14.48
3	3	1.18	-526.55	-108.52	-39.69	0	-453.78	2	-234.85	2	-8.59	2.35	-14.48
3	4	2.35	-526.55	-91.66	77.91	0	-339.42	2	-415.71	2	-15.21	2.35	-25.66
4	4	2.35	-969.61	-91.66	-198.56	0	-970.74	2	-181.25	2	-15.21	2.35	-25.66
4	5	3.53	-969.61	-74.79	-100.77	0	-873.92	2	-339.27	2	-19.88	2.35	-33.52
5	5	3.53	-969.61	-74.79	-100.77	0	-873.92	2	-339.27	2	-19.88	2.35	-33.52
5	6	4.70	-969.61	-57.94	-22.79	0	-794.67	2	-474.39	2	-22.58	2.35	-38.08
6	6	4.70	-969.61	-57.94	-22.79	0	-794.67	2	-474.39	2	-22.58	2.35	-38.08
6	7	5.88	-969.61	-41.08	35.40	0	-732.95	2	-586.66	2	-23.31	2.35	-39.33
7	7	5.88	-969.61	-41.08	35.40	0	-732.95	2	-586.66	2	-23.31	2.35	-39.33
7	8	7.05	-969.61	-24.23	73.79	0	-688.78	2	-676.06	2	-22.10	2.35	-37.28
8	8	7.05	-969.61	-24.23	73.79	0	-688.78	2	-676.06	2	-22.10	2.35	-37.28
8	9	8.23	-969.61	-7.38	92.36	0	-662.17	2	-742.57	2	-18.91	2.35	-31.91
9	9	8.23	-969.61	-7.38	92.36	0	-662.17	2	-742.57	2	-18.91	2.35	-31.91
9	10	9.40	-969.61	9.47	91.15	0	-653.10	2	-786.24	2	-13.76	2.35	-23.24
10	10	9.40	-969.61	9.47	91.15	0	-653.10	2	-786.24	2	-13.76	2.35	-23.24
	11	10.58	-969.61	26.31	70.11	0	-661.59	2	-807.01	2	-6.65	2.35	-11.25
	11	10.58	-969.61	26.31	70.11	0	-661.59	2	-807.01	2	-6.65	2.35	-11.25
11	12	11.75	-969.61	43.19	29.26	0	-687.64	2	-804.90	2	2.42	2.35	4.04
12	12	11.75	-969.61	43.19	29.26	0	-687.64	2	-804.90	2	2.42	2.35	4.04
12	13	12.93	-969.61	60.04	-31.37	0	-731.22	2	-779.95	2	13.45	2.35	22.64
13	13	12.93	-969.61	60.04	-31.37	0	-731.22	2	-779.95	2	13.45	2.35	22.64
13	14	14.10	-969.61	76.90	-111.83	0	-792.37	2	-732.12	2	26.45	2.35	44.55
14	14	14.10	-969.61	76.90	-111.83	0	-792.37	2	-732.12	2	26.45	2.35	44.55
14	15	15.28	-969.61	93.75	-212.08	0	-871.06	2	-661.41	2	41.41	2.35	69.77
15	15	15.28	-969.61	93.75	-212.08	0	-871.06	2	-661.41	2	41.41	2.35	69.77
15	16	16.45	-969.61	110.61	-332.15	0	-967.32	2	-567.81	2	58.33	2.35	98.29
16	16	16.45	-969.38	133.51	-332.02	0	-966.65	2	-567.54	2	58.08	2.35	98.04
16	17	17.63	-969.28	150.37	-499.02	0	-1109.82	2	-395.48	2	76.93	2.35	129.84
17	17	17.63	-969.28	150.37	-499.02	0	-995.15	2	-297.25	2	107.49	2.35	164.76
17	18	18.80	-969.47	192.47	-697.10	0	-1156.86	2	-116.70	2	139.62	2.35	214.05
18	18	18.80	-970.37	169.49	-697.24	0	-1157.81	2	-117.27	2	139.76	2.35	214.19
18	19	19.98	-970.37	202.08	-910.70	0	-1323.40	2	44.40	2	181.03	2.35	277.46
19	19	19.98	-970.37	202.08	-910.70	0	-1344.83	2	124.36	2	162.98	2.35	250.20
19	20	21.15	-971.31	267.11	-1190.41	0	-1559.77	2	325.53	2	218.79	2.35	335.83
20	20	21.15	-526.55	267.33	-889.13	0	-964.16	2	93.88	2	218.79	2.35	335.83
20	21	22.33	-526.55	341.53	-1248.45	0	-1234.81	2	335.34	2	293.92	2.35	451.12
21	21	22.33	-526.55	341.53	-1248.45	0	-1234.81	2	335.34	2	293.92	2.35	451.12
21	22	22.50	-526.55	355.37	-1309.72	0	-1280.57	2	374.99	2	307.02	2.35	471.23
22	22	22.50	-655.90	355.37	-751.49	0	-789.18	2	-666.42	2	307.02	2.35	471.23
22	23	23.50	-655.90	402.09	-1130.01	0	-1071.94	2	-420.98	2	387.86	2.35	595.31
	1023	23.50	-655.90	-439.69	-1130.01	0	-1071.94	2	-420.98	2	387.86	2.35	595.31
	24	24.50	-655.90	-386.20	-714.84	0	-758.79	2	-701.56	2	301.51	2.35	462.76
24	24	24.50	-566.83	-386.20	-1301.26	0	-1305.06	2	362.39	2	301.51	2.35	462.76
24	25	24.95	-566.83	-364.87	-1129.66	0	-1175.53	2	246.05	2	265.89	2.35	408.08
25	25	24.95	-566.83	-364.87	-1129.66	0	-1175.53	2	246.05	2	265.89	2.35	408.08
25	26	26.40	-566.83	-285.72	-653.20	0	-812.36	2	-90.30	2	169.57	2.35	260.25
26	26	26.40	-1051.20	-285.60	-981.87	0	-1461.60	2	162.94	2	169.57	2.35	260.25
26	27	27.85	-1050.27	-217.94	-619.32	0	-1178.76	2	-114.79	2	100.64	2.35	154.49
27	27	27.85	-1050.27	-217.94	-619.32	0	-1158.01	2	-193.07	2	118.48	2.35	181.31
27	28	29.30	-1050.27	-121.94	-374.35	0	-959.34	2	-411.29	2	77.75	2.35	118.87
28	28	29.30	-1452.01	-149.75	-636.81	0	-1487.23	2	-218.52	2	77.63	2.35	118.75
28	29	30.75	-1452.14	-128.94	-434.42	0	-1307.47	2	-458.54	2	55.83	2.35	85.36
29	29	30.75	-1452.14	-128.94	-434.42	0	-1476.70	2	-549.66	2	40.79	2.35	68.21
29	30	32.20	-1452.23	-108.14	-262.19	0	-1315.13	2	-788.83	2	28.13	2.35	46.88
30	30	32.20	-1452.95	-80.34	-262.32	0	-1315.96	2	-789.23	2	28.24	2.35	46.99
30	31	33.65	-1452.95	-59.53	-160.93	0	-1225.22	2	-910.27	2	18.53	2.35	30.67
31	31	33.65	-1452.95	-59.53	-160.93	0	-1225.22	2	-910.27	2	18.53	2.35	30.67
31	32	35.10	-1452.95	-38.74	-89.70	0	-1161.21	2	-996.47	2	11.82	2.35	19.39
32	32	35.10	-1452.95	-38.74	-89.70	0	-1161.21	2	-996.47	2	11.82	2.35	19.39
32	33	36.55	-1452.95	-17.92	-48.66	0	-1123.95	2	-1047.84	2	8.10	2.35	13.16
33	33	36.55	-1452.95	-17.92	-48.66	0	-1123.95	2	-1047.84	2	8.10	2.35	13.16
33	34	38.00	-1452.95	7.60	-43.53	0	-1117.31	2	-1063.11	2	8.48	2.35	13.87
34	34	38.00	-1452.95	7.60	-43.53	0	-1117.31	2	-1063.11	2	8.48	2.35	13.87
34	35	39.45	-1452.95	28.41	-69.65	0	-1138.13	2	-1043.29	2	12.06	2.35	19.97
35	35	39.45	-1452.95	28.41	-69.65	0	-1138.13	2	-1043.29	2	12.06	2.35	19.97
35	36	40.90	-1452.95	49.21	-125.90	0	-1185.66	2	-988.64	2	18.62	2.35	31.10
36	36	40.90	-1452.95	49.21	-125.90	0	-1185.66	2	-988.64	2	18.62	2.35	31.10
36	37	42.35	-1452.95	70.00	-212.33	0	-1259.93	2	-899.17	2	28.17	2.35	47.27
37	37	42.35	-1452.95	70.00	-212.33	0	-1259.93	2	-899.17	2	28.17	2.35	47.27
37	38	43.80	-1452.95	90.81	-328.91	0	-1360.93	2	-774.86	2	40.71	2.35	68.48
38	38	43.80	-1452.34	118.61	-328.78	0	-1360.14	2	-774.50	2	40.58	2.35	68.35
38	39	45.25	-1452.24	139.41	-516.19	0	-1531.95	2	-532.06	2	56.07	2.35	94.56

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.GRAD.To.MZ-

Infrecuentes con gradiente. Dominante GRAD

1)Pvigas + [.95: 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [.9: 1.1]fase4.ISO.To + [.9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: 1]GRAD + [0: .976]IPF75B.MZ- + [0: .4]PASE ef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1452.24	139.41	-516.19	0	-1361.42	2	-432.74	2	78.24	2.35	119.89
39	40	46.70	-1452.12	160.22	-733.77	0	-1551.20	2	-187.93	2	104.20	2.35	159.69
40	40	46.70	-1050.07	132.44	-471.31	0	-1023.20	2	-380.59	2	104.41	2.35	159.90
40	41	48.15	-1050.07	206.85	-711.55	0	-1218.73	2	-163.95	2	143.78	2.35	220.27
41	41	48.15	-1050.07	206.85	-711.55	0	-1235.91	2	-98.85	2	128.90	2.35	197.92
41	42	49.60	-1051.01	274.77	-1063.81	0	-1511.46	2	173.64	2	195.35	2.35	299.88
42	42	49.60	-566.83	274.85	-735.14	0	-862.35	2	-79.72	2	195.35	2.35	299.88
42	43	51.05	-566.83	360.60	-1194.96	0	-1214.00	2	249.35	2	287.43	2.35	441.20
43	43	51.05	-566.83	360.60	-1194.96	0	-1214.00	2	249.35	2	287.43	2.35	441.20
43	44	51.50	-566.83	381.35	-1363.67	0	-1341.47	2	364.18	2	322.37	2.35	494.84
44	44	51.50	-655.90	381.35	-777.25	0	-795.21	2	-699.78	2	322.37	2.35	494.84
44	45	52.50	-655.90	436.10	-1189.60	0	-1106.14	2	-421.45	2	408.20	2.35	626.59
45	1045	52.50	-655.90	-438.94	-1189.60	0	-1106.14	2	-421.45	2	408.20	2.35	626.59
45	46	53.50	-655.90	-384.05	-773.72	0	-792.74	2	-701.43	2	321.50	2.35	493.50
46	46	53.50	-566.83	-384.05	-1360.15	0	-1339.00	2	362.52	2	321.50	2.35	493.50
46	47	53.95	-566.83	-363.26	-1189.98	0	-1210.52	2	247.01	2	286.21	2.35	439.33
47	47	53.95	-566.83	-363.26	-1189.98	0	-1210.52	2	247.01	2	286.21	2.35	439.33
47	48	55.40	-566.83	-276.97	-724.44	0	-854.89	2	-84.63	2	192.70	2.35	295.80
48	48	55.40	-1051.08	-276.87	-1053.11	0	-1504.04	2	168.68	2	192.70	2.35	295.80
48	49	56.85	-1050.15	-213.37	-696.51	0	-1225.44	2	-105.95	2	125.21	2.35	192.24
49	49	56.85	-1050.15	-213.37	-696.51	0	-1208.82	2	-168.81	2	139.55	2.35	213.80
49	50	58.30	-1050.15	-121.88	-457.06	0	-1013.81	2	-385.21	2	100.40	2.35	153.76
50	50	58.30	-1452.04	-149.69	-719.51	0	-1541.75	2	-192.49	2	100.23	2.35	153.59
50	51	59.75	-1452.16	-128.89	-517.19	0	-1362.04	2	-432.45	2	78.50	2.35	120.28
51	51	59.75	-1452.16	-128.89	-517.19	0	-1532.57	2	-531.91	2	56.21	2.35	94.82
51	52	61.20	-1452.24	-108.08	-345.03	0	-1371.07	2	-770.96	2	43.65	2.35	73.62
52	52	61.20	-1452.95	-80.28	-345.16	0	-1371.90	2	-771.36	2	43.75	2.35	73.72
52	53	62.65	-1452.95	-59.47	-243.84	0	-1281.22	2	-892.30	2	34.15	2.35	57.53
53	53	62.65	-1452.95	-59.47	-243.84	0	-1281.22	2	-892.30	2	34.15	2.35	57.53
53	54	64.10	-1452.95	-38.67	-172.68	0	-1217.28	2	-978.38	2	27.53	2.35	46.37
54	54	64.10	-1452.95	-38.67	-172.68	0	-1217.28	2	-978.38	2	27.53	2.35	46.37
54	55	65.55	-1452.95	-17.87	-131.67	0	-1180.06	2	-1029.66	2	23.90	2.35	40.25
55	55	65.55	-1452.95	-17.87	-131.67	0	-1180.06	2	-1029.66	2	23.90	2.35	40.25
55	56	67.00	-1452.95	8.74	-126.03	0	-1173.08	2	-1044.95	2	24.26	2.35	40.88
56	56	67.00	-1452.95	8.74	-126.03	0	-1173.08	2	-1044.95	2	24.26	2.35	40.88
56	57	68.45	-1452.95	29.53	-153.78	0	-1195.03	2	-1024.66	2	28.23	2.35	47.62
57	57	68.45	-1452.95	29.53	-153.78	0	-1195.03	2	-1024.66	2	28.23	2.35	47.62
57	58	69.90	-1452.95	50.33	-211.69	0	-1243.70	2	-969.55	2	35.20	2.35	59.40
58	58	69.90	-1452.95	50.33	-211.69	0	-1243.70	2	-969.55	2	35.20	2.35	59.40
58	59	71.35	-1452.95	71.14	-299.75	0	-1319.09	2	-879.63	2	45.15	2.35	76.21
59	59	71.35	-1452.95	71.14	-299.75	0	-1319.09	2	-879.63	2	45.15	2.35	76.21
59	60	72.80	-1452.95	91.93	-418.00	0	-1421.23	2	-754.85	2	58.09	2.35	98.07
60	60	72.80	-1452.33	119.74	-417.86	0	-1420.44	2	-754.48	2	57.96	2.35	97.93
60	61	74.25	-1452.24	140.55	-606.92	0	-1593.38	2	-511.59	2	73.85	2.35	124.79
61	61	74.25	-1452.24	140.55	-606.92	0	-1421.36	2	-403.61	2	103.54	2.35	158.72
61	62	75.70	-1452.11	161.35	-826.16	0	-1612.24	2	-158.22	2	130.00	2.35	199.29
62	62	75.70	-1050.19	133.54	-563.70	0	-1084.29	2	-350.93	2	130.17	2.35	199.46
62	63	77.15	-1050.19	210.26	-814.01	0	-1286.48	2	-131.02	2	172.38	2.35	264.17
63	63	77.15	-1050.19	210.26	-814.01	0	-1303.86	2	-65.33	2	157.39	2.35	241.65
63	64	78.60	-1051.13	282.54	-1169.40	0	-1581.79	2	209.37	2	224.49	2.35	344.60
64	64	78.60	-566.83	282.64	-840.73	0	-932.60	2	-43.92	2	224.49	2.35	344.60
64	65	80.05	-566.83	352.30	-1302.60	0	-1285.93	2	287.01	2	316.92	2.35	486.46
65	65	80.05	-566.83	352.30	-1302.60	0	-1285.93	2	287.01	2	316.92	2.35	486.46
65	66	80.50	-566.83	388.99	-1470.73	0	-1413.11	2	402.01	2	351.63	2.35	539.73
66	66	80.50	-655.90	388.99	-884.31	0	-866.84	2	-661.94	2	351.63	2.35	539.73
66	67	81.50	-655.90	443.48	-1301.55	0	-1181.22	2	-381.22	2	438.67	2.35	673.33
67	1067	81.50	-655.90	-469.72	-1301.55	0	-1181.22	2	-381.22	2	438.67	2.35	673.33
67	68	82.50	-655.90	-415.67	-854.00	0	-843.47	2	-684.37	2	345.73	2.35	530.66
68	68	82.50	-647.39	-415.67	-1496.81	0	-1499.48	2	424.66	2	345.73	2.35	530.66
68	69	83.08	-647.39	-388.10	-1262.27	0	-1322.13	2	264.44	2	297.28	2.35	456.30
69	69	83.08	-647.39	-388.10	-1262.27	0	-1322.13	2	264.44	2	297.28	2.35	456.30
69	70	84.65	-647.39	-295.25	-722.61	0	-908.76	2	-124.20	2	189.70	2.35	291.19
70	70	84.65	-1212.23	-295.15	-1106.06	0	-1666.05	2	171.41	2	189.70	2.35	291.19
70	71	86.23	-1211.30	-226.25	-693.85	0	-1342.96	2	-150.46	2	112.53	2.35	172.77
71	71	86.23	-1211.30	-226.25	-693.85	0	-1327.39	2	-209.27	2	125.94	2.35	192.93
71	72	87.80	-1211.30	-134.06	-430.50	0	-1109.96	2	-458.45	2	85.04	2.35	130.24
72	72	87.80	-1774.25	-165.35	-798.00	0	-1849.43	2	-188.83	2	84.90	2.35	130.10
72	73	89.38	-1774.37	-142.75	-554.97	0	-1633.90	2	-475.68	2	58.51	2.35	89.66
73	73	89.38	-1774.37	-142.75	-554.97	0	-1843.25	2	-566.65	2	41.92	2.35	70.71
73	74	90.95	-1774.45	-120.15	-347.52	0	-1649.05	2	-852.76	2	26.56	2.35	44.80
74	74	90.95	-1775.17	-88.88	-347.67	0	-1649.90	2	-853.14	2	26.67	2.35	44.91
74	75	92.53	-1775.17	-66.28	-225.47	0	-1541.12	2	-996.43	2	14.80	2.35	24.90
75	75	92.53	-1775.17	-66.28	-225.47	0	-1541.12	2	-996.43	2	14.80	2.35	24.90
75	76	94.10	-1775.17	-43.68	-138.87	0	-1463.89	2	-1098.63	2	6.47	2.35	10.84
76	76	94.10	-1775.17	-43.68	-138.87	0	-1463.89	2	-1098.63	2	6.47	2.35	10.84
76	77	95.68	-1775.17	-21.10	-87.88	0	-1418.20	2	-1159.71	2	1.66	2.35	2.74

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.GRAD.To.MZ-

...entes con gradiente. Dominante GRAD

...+ [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .975]HPF75B.MZ- + [0; .4]PASE

def. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1775.17	-21.10	-87.88	0	-1418.20	2	-1159.71	2	1.66	2.35	2.74
77	78	97.25	-1775.17	6.55	-76.88	0	-1407.03	2	-1178.71	2	1.23	2.35	2.03
78	78	97.25	-1775.17	6.55	-76.88	0	-1407.03	2	-1178.71	2	1.23	2.35	2.03
78	79	98.83	-1775.17	29.14	-104.98	0	-1429.78	2	-1155.85	2	5.01	2.35	8.43
79	79	98.83	-1775.17	29.14	-104.98	0	-1429.78	2	-1155.85	2	5.01	2.35	8.43
79	80	100.40	-1775.17	51.73	-168.69	0	-1484.07	2	-1091.90	2	12.31	2.35	20.78
80	80	100.40	-1775.17	51.73	-168.69	0	-1484.07	2	-1091.90	2	12.31	2.35	20.78
80	81	101.98	-1775.17	74.32	-267.98	0	-1569.91	2	-986.83	2	23.14	2.35	39.07
81	81	101.98	-1775.17	74.32	-267.98	0	-1569.91	2	-986.83	2	23.14	2.35	39.07
81	82	103.55	-1775.17	96.93	-402.85	0	-1687.27	2	-840.68	2	37.50	2.35	63.31
82	82	103.55	-1774.53	128.20	-402.70	0	-1686.45	2	-840.32	2	37.37	2.35	63.18
82	83	105.13	-1774.45	150.78	-622.85	0	-1889.24	2	-551.33	2	55.22	2.35	93.33
83	83	105.13	-1774.45	150.78	-622.85	0	-1678.77	2	-453.90	2	77.43	2.35	118.71
83	84	106.70	-1774.32	173.40	-878.59	0	-1902.70	2	-162.96	2	107.37	2.35	164.60
84	84	106.70	-1211.26	142.13	-511.09	0	-1163.19	2	-432.55	2	107.55	2.35	164.78
84	85	108.28	-1211.26	223.09	-789.43	0	-1390.52	2	-178.55	2	152.62	2.35	233.88
85	85	108.28	-1211.26	223.09	-789.43	0	-1405.33	2	-122.52	2	139.84	2.35	214.67
85	86	109.85	-1212.20	301.71	-1203.45	0	-1729.52	2	199.53	2	217.63	2.35	334.02
86	86	109.85	-647.39	301.79	-820.00	0	-972.27	2	-96.10	2	217.63	2.35	334.02
	87	111.43	-647.39	377.52	-1358.47	0	-1384.74	2	291.79	2	324.99	2.35	498.78
	87	111.43	-647.39	377.52	-1358.47	0	-1384.74	2	291.79	2	324.99	2.35	498.78
87	88	112.00	-647.39	418.09	-1592.01	0	-1561.41	2	451.57	2	373.19	2.35	572.78
88	88	112.00	-655.90	418.09	-949.20	0	-905.39	2	-657.46	2	373.19	2.35	572.78
88	89	113.00	-655.90	475.34	-1401.08	0	-1245.93	2	-353.20	2	467.41	2.35	717.40
89	1089	113.00	-655.90	-472.48	-1401.08	0	-1245.93	2	-353.20	2	467.41	2.35	717.40
89	90	114.00	-655.90	-415.27	-952.23	0	-907.51	2	-656.06	2	373.95	2.35	573.94
90	90	114.00	-647.39	-415.27	-1595.04	0	-1563.52	2	452.97	2	373.95	2.35	573.94
90	91	114.58	-647.39	-374.78	-1363.67	0	-1388.37	2	294.18	2	326.28	2.35	500.78
91	91	114.58	-647.39	-374.78	-1363.67	0	-1388.37	2	294.18	2	326.28	2.35	500.78
91	92	116.15	-647.39	-299.22	-829.77	0	-979.10	2	-91.53	2	220.05	2.35	337.74
92	92	116.15	-1212.13	-299.14	-1213.22	0	-1736.31	2	204.14	2	220.05	2.35	337.74
92	93	117.73	-1211.20	-220.97	-803.64	0	-1415.25	2	-115.78	2	143.35	2.35	220.06
93	93	117.73	-1211.20	-220.97	-803.64	0	-1399.89	2	-173.93	2	156.63	2.35	240.02
93	94	119.30	-1211.20	-146.90	-523.44	0	-1171.35	2	-428.50	2	111.06	2.35	170.14
94	94	119.30	-1774.37	-178.17	-890.94	0	-1910.89	2	-158.95	2	110.85	2.35	169.93
94	95	120.88	-1774.49	-155.56	-627.69	0	-1682.01	2	-452.27	2	78.84	2.35	120.87
95	95	120.88	-1774.49	-155.56	-627.69	0	-1892.57	2	-550.08	2	56.30	2.35	95.11
95	96	122.45	-1774.59	-132.97	-399.99	0	-1684.67	2	-840.73	2	37.02	2.35	62.51
96	96	122.45	-1775.17	-101.70	-400.14	0	-1685.47	2	-841.07	2	37.17	2.35	62.65
96	97	124.03	-1775.17	-79.10	-257.73	0	-1563.02	2	-988.87	2	21.39	2.35	35.97
97	97	124.03	-1775.17	-79.10	-257.73	0	-1563.02	2	-988.87	2	21.39	2.35	35.97
97	98	125.60	-1775.17	-56.50	-150.95	0	-1472.13	2	-1095.55	2	9.14	2.35	15.24
98	98	125.60	-1775.17	-56.50	-150.95	0	-1472.13	2	-1095.55	2	9.14	2.35	15.24
98	99	127.18	-1775.17	-33.92	-79.70	0	-1412.73	2	-1161.18	2	0.42	2.35	0.45
	99	127.18	-1775.17	-33.92	-79.70	0	-1412.73	2	-1161.18	2	0.42	2.35	0.45
	100	128.75	-1775.17	-11.33	-44.06	0	-1384.89	2	-1185.67	2	-4.79	2.35	-8.40
100	100	128.75	-1775.17	-11.33	-44.06	0	-1384.89	2	-1185.67	2	-4.79	2.35	-8.40
100	101	130.33	-1775.17	11.27	-43.98	0	-1388.57	2	-1169.10	2	-6.46	2.35	-11.31
101	101	130.33	-1775.17	11.27	-43.98	0	-1388.57	2	-1169.10	2	-6.46	2.35	-11.31
101	102	131.90	-1775.17	38.43	-84.16	0	-1426.95	2	-1110.35	2	-3.72	2.35	-6.73
102	102	131.90	-1775.17	38.43	-84.16	0	-1426.95	2	-1110.35	2	-3.72	2.35	-6.73
102	103	133.48	-1775.17	61.02	-162.48	0	-1498.59	2	-1009.96	2	3.05	2.35	4.63
103	103	133.48	-1775.17	61.02	-162.48	0	-1498.59	2	-1009.96	2	3.05	2.35	4.63
103	104	135.05	-1775.17	83.63	-276.37	0	-1601.76	2	-868.50	2	13.35	2.35	21.94
104	104	135.05	-1774.40	114.90	-276.23	0	-1600.90	2	-868.10	2	13.26	2.35	21.85
104	105	136.63	-1774.30	137.49	-475.42	0	-1789.51	2	-583.76	2	27.05	2.35	45.07
105	105	136.63	-1774.30	137.49	-475.42	0	-1581.43	2	-500.78	2	36.71	2.35	56.07
105	106	138.20	-1774.20	160.10	-710.19	0	-1791.52	2	-216.55	2	60.82	2.35	93.00
106	106	138.20	-1211.36	128.80	-342.69	0	-1052.08	2	-486.22	2	60.93	2.35	93.12
106	107	139.78	-1211.36	229.69	-608.11	0	-1270.88	2	-236.35	2	102.42	2.35	156.71
107	107	139.78	-1211.36	229.69	-608.11	0	-1289.64	2	-165.55	2	86.29	2.35	132.45
107	108	141.35	-1212.30	303.37	-1024.26	0	-1615.53	2	158.29	2	164.41	2.35	252.32
108	108	141.35	-647.39	303.46	-640.81	0	-858.21	2	-137.28	2	164.41	2.35	252.32
108	109	142.93	-647.39	388.74	-1190.40	0	-1278.32	2	255.28	2	274.60	2.35	421.44
109	109	142.93	-647.39	388.74	-1190.40	0	-1278.32	2	255.28	2	274.60	2.35	421.44
109	110	143.50	-647.39	427.79	-1424.53	0	-1455.48	2	415.65	2	322.88	2.35	495.55
110	110	143.50	-655.90	427.79	-781.73	0	-799.47	2	-693.38	2	322.88	2.35	495.55
110	111	144.50	-655.90	469.27	-1229.68	0	-1137.60	2	-389.67	2	415.84	2.35	638.26
111	1111	144.50	-655.90	-406.69	-1229.68	0	-1137.60	2	-389.67	2	415.84	2.35	638.26
111	112	145.50	-655.90	-356.41	-848.34	0	-852.98	2	-636.01	2	334.21	2.35	512.96
	112	145.50	-526.55	-356.41	-1406.57	0	-1344.37	2	405.41	2	334.21	2.35	512.96
112	113	145.68	-526.55	-330.44	-1345.50	0	-1298.76	2	365.85	2	321.15	2.35	492.92
113	113	145.68	-526.55	-330.44	-1345.50	0	-1298.76	2	365.85	2	321.15	2.35	492.92
113	114	146.85	-526.55	-272.10	-989.63	0	-1030.39	2	125.53	2	246.97	2.35	379.08
114	114	146.85	-971.30	-271.88	-1290.91	0	-1625.99	2	357.18	2	246.97	2.35	379.08
114	115	148.03	-970.37	-200.23	-1013.00	0	-1412.26	2	156.61	2	191.64	2.35	294.19

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.GRAD.To.MZ-

Infrecuentes con gradiente. Dominante GRAD

...1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .975]HPF75B.MZ- + [0; .4]PASE

def. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-970.37	-200.23	-1013.00	0	-1390.98	2	77.24	2	209.56	2.35	321.25
115	116	149.20	-970.37	-174.69	-795.53	0	-1222.74	2	-85.72	2	167.16	2.35	256.25
116	116	149.20	-969.53	-197.70	-795.39	0	-1221.80	2	-85.16	2	167.01	2.35	256.10
116	117	150.38	-969.34	-155.11	-582.76	0	-1050.49	2	-270.37	2	130.83	2.35	200.60
117	117	150.38	-969.34	-155.11	-582.76	0	-1166.54	2	-376.59	2	93.34	2.35	157.74
117	118	151.55	-969.45	-138.25	-410.17	0	-1019.59	2	-549.92	2	73.38	2.35	124.07
118	118	151.55	-969.61	-115.36	-410.29	0	-1020.23	2	-550.17	2	73.66	2.35	124.34
118	119	152.73	-969.61	-98.50	-284.65	0	-920.20	2	-645.02	2	55.64	2.35	93.96
119	119	152.73	-969.61	-98.50	-284.65	0	-920.20	2	-645.02	2	55.64	2.35	93.96
119	120	153.90	-969.61	-81.64	-178.83	0	-837.74	2	-716.99	2	39.59	2.35	66.89
120	120	153.90	-969.61	-81.64	-178.83	0	-837.74	2	-716.99	2	39.59	2.35	66.89
120	121	155.08	-969.61	-64.78	-92.77	0	-772.80	2	-766.09	2	25.49	2.35	43.11
121	121	155.08	-969.61	-64.78	-92.77	0	-772.80	2	-766.09	2	25.49	2.35	43.11
121	122	156.25	-969.61	-47.93	-26.56	0	-725.44	2	-792.30	2	13.37	2.35	22.65
122	122	156.25	-969.61	-47.93	-26.56	0	-725.44	2	-792.30	2	13.37	2.35	22.65
122	123	157.43	-969.61	-31.08	19.87	0	-695.61	2	-795.66	2	3.20	2.35	5.50
123	123	157.43	-969.61	-31.08	19.87	0	-695.61	2	-795.66	2	3.20	2.35	5.50
123	124	158.60	-969.61	-14.23	46.47	0	-683.35	2	-776.15	2	-5.00	2.35	-8.34
124	124	158.60	-969.61	-14.23	46.47	0	-683.35	2	-776.15	2	-5.00	2.35	-8.34
124	125	159.78	-969.61	2.62	53.30	0	-688.63	2	-733.75	2	-11.25	2.35	-18.89
125	125	159.78	-969.61	2.62	53.30	0	-688.63	2	-733.75	2	-11.25	2.35	-18.89
125	126	160.95	-969.61	19.48	40.28	0	-711.48	2	-668.49	2	-15.52	2.35	-26.10
126	126	160.95	-969.61	19.48	40.28	0	-711.48	2	-668.49	2	-15.52	2.35	-26.10
126	127	162.13	-969.61	36.34	7.50	0	-751.84	2	-580.37	2	-17.84	2.35	-30.03
127	127	162.13	-969.61	36.34	7.50	0	-751.84	2	-580.37	2	-17.84	2.35	-30.03
127	128	163.30	-969.61	53.20	-45.11	0	-809.78	2	-469.35	2	-18.20	2.35	-30.64
128	128	163.30	-969.61	53.20	-45.11	0	-809.78	2	-469.35	2	-18.20	2.35	-30.64
128	129	164.48	-969.61	70.05	-117.51	0	-885.26	2	-335.49	2	-16.59	2.35	-27.94
129	129	164.48	-969.61	70.05	-117.51	0	-885.26	2	-335.49	2	-16.59	2.35	-27.94
129	130	165.65	-969.61	86.92	-209.74	0	-978.31	2	-178.73	2	-13.02	2.35	-21.93
130	130	165.65	-526.55	86.92	66.73	0	-346.99	2	-413.19	2	-13.02	2.35	-21.93
130	131	166.83	-526.55	103.77	-45.27	0	-457.56	2	-233.60	2	-7.49	2.35	-12.62
131	131	166.83	-526.55	103.77	-45.27	0	-457.56	2	-233.60	2	-7.49	2.35	-12.62
131	132	167.00	-526.55	106.28	-63.68	0	-475.56	2	-204.84	2	-6.50	2.35	-10.95
132	132	167.00	0.00	106.28	116.78	0	113.80	2	-180.63	2	-6.50	2.35	-10.95
132	133	168.00	0.00	152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:

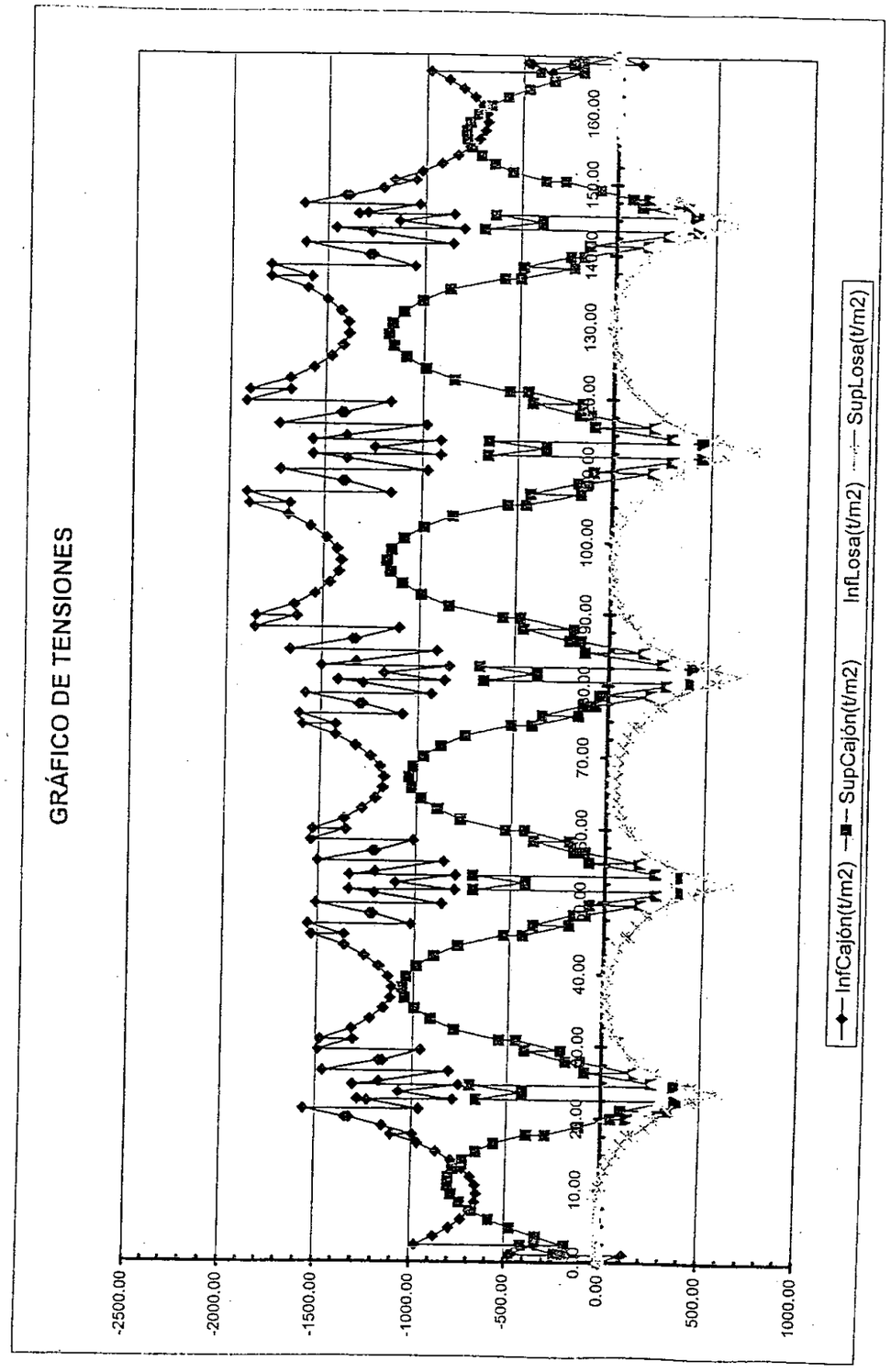
INFREC1.IPF75B.EnvTrenGen.MZ-.To.MZ-

Infrecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-

1.)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ- + [0; .5]PAS

def exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-153.47	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-105.81	116.35	0	113.52	2	-180.59	2	-6.43	2.35	-10.82
2	2	1.00	-526.55	-105.81	-64.11	0	-475.84	2	-204.80	2	-6.43	2.35	-10.82
2	3	1.18	-526.55	-103.31	-45.82	0	-457.92	2	-233.49	2	-7.40	2.35	-12.46
3	3	1.18	-526.55	-103.31	-45.82	0	-457.92	2	-233.49	2	-7.40	2.35	-12.46
3	4	2.35	-526.55	-86.45	65.66	0	-347.70	2	-412.99	2	-12.85	2.35	-21.62
4	4	2.35	-969.61	-86.45	-210.81	0	-979.03	2	-178.53	2	-12.85	2.35	-21.62
4	5	3.53	-969.61	-69.58	-119.14	0	-886.36	2	-335.19	2	-16.32	2.35	-27.46
5	5	3.53	-969.61	-69.58	-119.14	0	-886.36	2	-335.19	2	-16.32	2.35	-27.46
5	6	4.70	-969.61	-52.73	-47.29	0	-811.25	2	-468.93	2	-17.84	2.35	-30.00
6	6	4.70	-969.61	-52.73	-47.29	0	-811.25	2	-468.93	2	-17.84	2.35	-30.00
6	7	5.88	-969.61	-35.87	4.78	0	-753.67	2	-579.85	2	-17.40	2.35	-29.23
7	7	5.88	-969.61	-35.87	4.78	0	-753.67	2	-579.85	2	-17.40	2.35	-29.23
7	8	7.05	-969.61	-19.02	37.05	0	-713.64	2	-667.88	2	-14.99	2.35	-25.15
8	8	7.05	-969.61	-19.02	37.05	0	-713.64	2	-667.88	2	-14.99	2.35	-25.15
8	9	8.23	-969.61	-2.17	49.49	0	-691.18	2	-733.03	2	-10.62	2.35	-17.77
9	9	8.23	-969.61	-2.17	49.49	0	-691.18	2	-733.03	2	-10.62	2.35	-17.77
9	10	9.40	-969.61	14.69	42.15	0	-686.24	2	-775.34	2	-4.30	2.35	-7.07
10	10	9.40	-969.61	14.69	42.15	0	-686.24	2	-775.34	2	-4.30	2.35	-7.07
10	11	10.58	-969.61	31.53	14.99	0	-698.88	2	-794.74	2	4.00	2.35	6.93
11	11	10.58	-969.61	31.53	14.99	0	-698.88	2	-794.74	2	4.00	2.35	6.93
11	12	11.75	-969.61	48.40	-31.99	0	-729.08	2	-791.28	2	14.26	2.35	24.25
12	12	11.75	-969.61	48.40	-31.99	0	-729.08	2	-791.28	2	14.26	2.35	24.25
12	13	12.93	-969.61	65.25	-98.74	0	-776.80	2	-764.96	2	26.47	2.35	44.86
13	13	12.93	-969.61	65.25	-98.74	0	-776.80	2	-764.96	2	26.47	2.35	44.86
13	14	14.10	-969.61	82.11	-185.32	0	-842.09	2	-715.77	2	40.65	2.35	68.80
14	14	14.10	-969.61	82.11	-185.32	0	-842.09	2	-715.77	2	40.65	2.35	68.80
14	15	15.28	-969.61	98.96	-291.70	0	-924.93	2	-643.69	2	56.80	2.35	96.04
15	15	15.28	-969.61	98.96	-291.70	0	-924.93	2	-643.69	2	56.80	2.35	96.04
15	16	16.45	-969.61	115.82	-417.89	0	-1025.32	2	-548.74	2	74.90	2.35	126.58
16	16	16.45	-969.44	138.72	-417.76	0	-1024.68	2	-548.48	2	74.63	2.35	126.31
16	17	17.63	-969.34	155.58	-590.89	0	-1171.99	2	-375.06	2	94.67	2.35	160.13
17	17	17.63	-969.34	155.58	-590.89	0	-1055.82	2	-267.92	2	132.96	2.35	203.92
17	18	18.80	-969.53	197.68	-795.10	0	-1221.58	2	-85.41	2	166.79	2.35	255.81
18	18	18.80	-970.37	174.71	-795.24	0	-1222.51	2	-85.97	2	166.95	2.35	255.97
18	19	19.98	-970.37	210.45	-1015.44	0	-1392.56	2	77.86	2	210.10	2.35	322.11
19	19	19.98	-970.37	210.45	-1015.44	0	-1413.99	2	157.82	2	192.04	2.35	294.86
19	20	21.15	-971.31	286.76	-1312.59	0	-1560.44	2	364.56	2	252.69	2.35	387.92
20	20	21.15	-526.55	286.98	-1011.31	0	-1044.82	2	132.91	2	252.69	2.35	387.92
20	21	22.33	-526.55	374.75	-1402.09	0	-1336.25	2	384.42	2	336.54	2.35	516.63
21	21	22.33	-526.55	374.75	-1402.09	0	-1336.25	2	384.42	2	336.54	2.35	516.63
21	22	22.50	-526.55	391.30	-1469.48	0	-1386.04	2	426.03	2	351.35	2.35	539.35
22	22	22.50	-655.90	391.30	-911.25	0	-894.66	2	-615.39	2	351.35	2.35	539.35
22	23	23.50	-655.90	444.10	-1328.69	0	-1203.12	2	-357.51	2	442.98	2.35	680.02
23	1023	23.50	-655.90	-486.60	-1328.69	0	-1203.12	2	-357.51	2	442.98	2.35	680.02
23	24	24.50	-655.90	-425.34	-869.95	0	-861.20	2	-652.01	2	344.54	2.35	528.90
24	24	24.50	-566.83	-425.34	-1456.37	0	-1407.46	2	411.94	2	344.54	2.35	528.90
24	25	24.95	-566.83	-400.58	-1267.27	0	-1266.38	2	290.01	2	304.07	2.35	466.75
25	25	24.95	-566.83	-400.58	-1267.27	0	-1266.38	2	290.01	2	304.07	2.35	466.75
25	26	26.40	-566.83	-307.79	-747.72	0	-874.77	2	-60.11	2	195.79	2.35	300.55
26	26	26.40	-1051.20	-307.67	-1076.39	0	-1524.00	2	193.13	2	195.79	2.35	300.55
26	27	27.85	-1050.27	-229.25	-690.29	0	-1225.61	2	-92.12	2	120.33	2.35	184.75
27	27	27.85	-1050.27	-229.25	-690.29	0	-1204.86	2	-170.41	2	138.17	2.35	211.57
27	28	29.30	-1050.27	-121.10	-437.85	0	-1001.26	2	-391.00	2	95.37	2.35	145.94
28	28	29.30	-1452.00	-148.91	-700.31	0	-1529.15	2	-198.23	2	95.25	2.35	145.83
28	29	30.75	-1452.13	-128.10	-499.14	0	-1350.20	2	-437.86	2	73.79	2.35	112.96
29	29	30.75	-1452.13	-128.10	-499.14	0	-1520.48	2	-535.25	2	53.30	2.35	89.57
29	30	32.20	-1452.23	-107.30	-328.13	0	-1359.76	2	-774.15	2	40.88	2.35	68.64
30	30	32.20	-1452.95	-79.50	-328.27	0	-1360.58	2	-774.55	2	40.98	2.35	68.74
30	31	33.65	-1452.95	-58.69	-228.10	0	-1270.67	2	-895.32	2	31.52	2.35	52.83
31	31	33.65	-1452.95	-58.69	-228.10	0	-1270.67	2	-895.32	2	31.52	2.35	52.83
31	32	35.10	-1452.95	-37.90	-158.09	0	-1207.48	2	-981.25	2	25.04	2.35	41.95
32	32	35.10	-1452.95	-37.90	-158.09	0	-1207.48	2	-981.25	2	25.04	2.35	41.95
32	33	36.55	-1452.95	-17.08	-118.27	0	-1171.05	2	-1032.35	2	21.55	2.35	36.13
33	33	36.55	-1452.95	-17.08	-118.27	0	-1171.05	2	-1032.35	2	21.55	2.35	36.13
33	34	38.00	-1452.95	9.62	-115.82	0	-1166.21	2	-1047.03	2	22.45	2.35	37.72
34	34	38.00	-1452.95	9.62	-115.82	0	-1166.21	2	-1047.03	2	22.45	2.35	37.72
34	35	39.45	-1452.95	30.43	-144.87	0	-1189.02	2	-1026.55	2	26.60	2.35	44.78
35	35	39.45	-1452.95	30.43	-144.87	0	-1189.02	2	-1026.55	2	26.60	2.35	44.78
35	36	40.90	-1452.95	51.24	-204.06	0	-1238.54	2	-971.25	2	33.72	2.35	56.88
36	36	40.90	-1452.95	51.24	-204.06	0	-1238.54	2	-971.25	2	33.72	2.35	56.88
36	37	42.35	-1452.95	72.03	-293.42	0	-1314.79	2	-881.13	2	43.84	2.35	74.03
37	37	42.35	-1452.95	72.03	-293.42	0	-1314.79	2	-881.13	2	43.84	2.35	74.03
37	38	43.80	-1452.95	92.83	-412.94	0	-1417.78	2	-756.16	2	56.95	2.35	96.20
38	38	43.80	-1452.36	120.64	-412.80	0	-1416.99	2	-755.81	2	56.81	2.35	96.06
38	39	45.25	-1452.26	141.44	-603.15	0	-1590.78	2	-512.72	2	72.87	2.35	123.25



CÁLCULO TENSIONAL

Hipótesis de cálculo:

INFREC1.IPF75B.EnvTrenGen.MZ-.To.MZ-

...uentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-

...as + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [-9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ- + [0; .5]PAS

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1452.26	141.44	-603.15	0	-1418.84	2	-404.97	2	102.36	2.35	156.96
39	40	46.70	-1452.14	162.24	-823.67	0	-1610.56	2	-159.22	2	129.14	2.35	198.01
40	40	46.70	-1050.07	134.46	-561.21	0	-1082.55	2	-351.87	2	129.35	2.35	198.23
40	41	48.15	-1050.07	215.62	-807.98	0	-1282.39	2	-133.14	2	170.53	2.35	261.38
41	41	48.15	-1050.07	215.62	-807.98	0	-1299.58	2	-68.04	2	155.66	2.35	239.04
41	42	49.60	-1051.01	294.37	-1181.57	0	-1589.21	2	211.26	2	228.02	2.35	350.09
42	42	49.60	-566.83	294.44	-852.90	0	-940.10	2	-42.10	2	228.02	2.35	350.09
42	43	51.05	-566.83	395.48	-1352.00	0	-1317.69	2	299.52	2	331.00	2.35	508.16
43	43	51.05	-566.83	395.48	-1352.00	0	-1317.69	2	299.52	2	331.00	2.35	508.16
43	44	51.50	-566.83	419.52	-1537.59	0	-1456.30	2	419.74	2	370.62	2.35	568.99
44	44	51.50	-655.90	419.52	-951.17	0	-910.03	2	-644.22	2	370.62	2.35	568.99
44	45	52.50	-655.90	482.35	-1406.62	0	-1249.42	2	-352.12	2	468.41	2.35	719.12
45	1045	52.50	-655.90	-486.24	-1406.62	0	-1249.42	2	-352.12	2	468.41	2.35	719.12
45	46	53.50	-655.90	-423.24	-946.41	0	-906.75	2	-646.26	2	369.42	2.35	567.13
46	46	53.50	-566.83	-423.24	-1532.83	0	-1453.02	2	417.69	2	369.42	2.35	567.13
46	47	53.95	-566.83	-399.15	-1345.27	0	-1313.05	2	296.62	2	329.30	2.35	505.54
47	47	53.95	-566.83	-399.15	-1345.27	0	-1313.05	2	296.62	2	329.30	2.35	505.54
47	48	55.40	-566.83	-297.44	-838.52	0	-930.20	2	-48.19	2	224.35	2.35	344.44
48	48	55.40	-1051.08	-297.34	-1167.19	0	-1579.36	2	205.13	2	224.35	2.35	344.44
8	49	56.85	-1050.15	-224.12	-787.68	0	-1285.63	2	-76.83	2	150.50	2.35	231.11
49	49	56.85	-1050.15	-224.12	-787.68	0	-1269.01	2	-139.69	2	164.85	2.35	252.67
49	50	58.30	-1050.15	-121.50	-542.06	0	-1069.93	2	-358.06	2	123.98	2.35	190.00
50	50	58.30	-1452.04	-149.31	-804.51	0	-1597.87	2	-165.34	2	123.82	2.35	189.83
50	51	59.75	-1452.16	-128.51	-602.74	0	-1418.52	2	-405.12	2	102.23	2.35	156.76
51	51	59.75	-1452.16	-128.51	-602.74	0	-1590.45	2	-512.87	2	72.74	2.35	123.04
51	52	61.20	-1452.24	-107.70	-431.12	0	-1429.32	2	-751.80	2	60.28	2.35	102.02
52	52	61.20	-1452.95	-79.90	-431.26	0	-1430.15	2	-752.20	2	60.39	2.35	102.13
52	53	62.65	-1452.95	-59.09	-330.48	0	-1339.84	2	-873.02	2	50.89	2.35	86.11
53	53	62.65	-1452.95	-59.09	-330.48	0	-1339.84	2	-873.02	2	50.89	2.35	86.11
53	54	64.10	-1452.95	-38.29	-259.88	0	-1276.27	2	-958.98	2	44.38	2.35	75.14
54	54	64.10	-1452.95	-38.29	-259.88	0	-1276.27	2	-958.98	2	44.38	2.35	75.14
54	55	65.55	-1452.95	-17.49	-219.42	0	-1239.42	2	-1010.13	2	40.85	2.35	69.20
55	55	65.55	-1452.95	-17.49	-219.42	0	-1239.42	2	-1010.13	2	40.85	2.35	69.20
55	56	67.00	-1452.95	10.57	-215.62	0	-1233.70	2	-1025.01	2	41.57	2.35	70.44
56	56	67.00	-1452.95	10.57	-215.62	0	-1233.70	2	-1025.01	2	41.57	2.35	70.44
56	57	68.45	-1452.95	31.36	-246.03	0	-1257.45	2	-1004.14	2	46.06	2.35	78.06
57	57	68.45	-1452.95	31.36	-246.03	0	-1257.45	2	-1004.14	2	46.06	2.35	78.06
57	58	69.90	-1452.95	52.16	-306.60	0	-1307.91	2	-948.43	2	53.54	2.35	90.71
58	58	69.90	-1452.95	52.16	-306.60	0	-1307.91	2	-948.43	2	53.54	2.35	90.71
58	59	71.35	-1452.95	72.97	-397.32	0	-1385.10	2	-857.92	2	64.00	2.35	108.40
59	59	71.35	-1452.95	72.97	-397.32	0	-1385.10	2	-857.92	2	64.00	2.35	108.40
59	60	72.80	-1452.95	93.77	-518.22	0	-1489.04	2	-732.55	2	77.46	2.35	131.13
60	60	72.80	-1452.34	121.57	-518.08	0	-1488.25	2	-732.19	2	77.32	2.35	130.99
60	61	74.25	-1452.26	142.38	-709.79	0	-1662.98	2	-488.71	2	93.73	2.35	158.72
1	61	74.25	-1452.26	142.38	-709.79	0	-1489.28	2	-370.76	2	132.08	2.35	202.58
)	62	75.70	-1452.13	163.18	-931.69	0	-1681.92	2	-124.51	2	159.28	2.35	244.28
2	62	75.70	-1050.19	135.37	-669.23	0	-1153.96	2	-317.22	2	159.45	2.35	244.45
62	63	77.15	-1050.19	219.31	-925.10	0	-1359.82	2	-95.53	2	203.20	2.35	311.53
63	63	77.15	-1050.19	219.31	-925.10	0	-1377.21	2	-29.84	2	188.21	2.35	289.01
63	64	78.60	-1051.13	303.50	-1301.75	0	-1689.17	2	251.65	2	261.21	2.35	401.03
64	64	78.60	-566.83	303.60	-973.08	0	-1019.98	2	-1.64	2	261.21	2.35	401.03
64	65	80.05	-566.83	384.52	-1473.90	0	-1399.03	2	341.73	2	364.45	2.35	559.49
65	65	80.05	-566.83	384.52	-1473.90	0	-1399.03	2	341.73	2	364.45	2.35	559.49
65	66	80.50	-566.83	428.48	-1658.50	0	-1537.08	2	461.99	2	403.73	2.35	619.79
66	66	80.50	-655.90	428.48	-1072.08	0	-990.81	2	-601.96	2	403.73	2.35	619.79
66	67	81.50	-655.90	490.98	-1533.06	0	-1334.07	2	-307.27	2	502.90	2.35	772.04
67	1067	81.50	-655.90	-519.48	-1533.06	0	-1334.07	2	-307.27	2	502.90	2.35	772.04
67	68	82.50	-655.90	-457.52	-1038.49	0	-965.28	2	-625.43	2	396.92	2.35	609.32
68	68	82.50	-647.39	-457.52	-1681.30	0	-1621.29	2	483.60	2	396.92	2.35	609.32
68	69	83.08	-647.39	-425.49	-1423.12	0	-1428.33	2	315.83	2	341.91	2.35	524.88
69	69	83.08	-647.39	-425.49	-1423.12	0	-1428.33	2	315.83	2	341.91	2.35	524.88
69	70	84.65	-647.39	-316.11	-837.18	0	-984.41	2	-87.60	2	221.49	2.35	340.04
70	70	84.65	-1212.23	-316.01	-1220.63	0	-1741.70	2	208.01	2	221.49	2.35	340.04
70	71	86.23	-1211.30	-236.57	-783.49	0	-1402.14	2	-121.82	2	137.40	2.35	210.99
71	71	86.23	-1211.30	-236.57	-783.49	0	-1386.57	2	-180.63	2	150.81	2.35	231.15
71	72	87.80	-1211.30	-134.07	-513.87	0	-1165.01	2	-431.82	2	108.17	2.35	165.79
72	72	87.80	-1774.25	-165.36	-881.37	0	-1904.47	2	-162.20	2	108.03	2.35	165.64
72	73	89.38	-1774.37	-142.76	-638.33	0	-1688.94	2	-449.05	2	81.64	2.35	125.21
73	73	89.38	-1774.37	-142.76	-638.33	0	-1899.64	2	-548.10	2	58.03	2.35	98.21
73	74	90.95	-1774.45	-120.16	-430.86	0	-1705.44	2	-834.21	2	42.67	2.35	72.30
	74	90.95	-1775.17	-88.89	-431.01	0	-1706.29	2	-834.60	2	42.78	2.35	72.40
74	75	92.53	-1775.17	-66.29	-308.80	0	-1597.50	2	-977.89	2	30.91	2.35	52.39
75	75	92.53	-1775.17	-66.29	-308.80	0	-1597.50	2	-977.89	2	30.91	2.35	52.39
75	76	94.10	-1775.17	-43.69	-222.19	0	-1520.25	2	-1080.09	2	22.57	2.35	38.33
76	76	94.10	-1775.17	-43.69	-222.19	0	-1520.25	2	-1080.09	2	22.57	2.35	38.33
76	77	95.68	-1775.17	-21.11	-171.18	0	-1474.56	2	-1141.17	2	17.76	2.35	30.22

CÁLCULO TENSIONAL

ipótesis de cálculo:

NFREC1.IPF75B.EnvTrenGen.MZ-.To.MZ-

ifrecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-

...1]Vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ- + [0; .5]PAS

ef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1775.17	-21.11	-171.18	0	-1474.56	2	-1141.17	2	17.76	2.35	30.22
77	78	97.25	-1775.17	7.80	-161.26	0	-1464.13	2	-1159.93	2	17.54	2.35	29.87
78	78	97.25	-1775.17	7.80	-161.26	0	-1464.13	2	-1159.93	2	17.54	2.35	29.87
78	79	98.83	-1775.17	30.40	-191.34	0	-1488.21	2	-1136.64	2	21.70	2.35	36.92
79	79	98.83	-1775.17	30.40	-191.34	0	-1488.21	2	-1136.64	2	21.70	2.35	36.92
79	80	100.40	-1775.17	52.98	-257.03	0	-1543.84	2	-1072.24	2	29.38	2.35	49.92
80	80	100.40	-1775.17	52.98	-257.03	0	-1543.84	2	-1072.24	2	29.38	2.35	49.92
80	81	101.98	-1775.17	75.58	-358.29	0	-1631.01	2	-966.74	2	40.60	2.35	68.87
81	81	101.98	-1775.17	75.58	-358.29	0	-1631.01	2	-966.74	2	40.60	2.35	68.87
81	82	103.55	-1775.17	98.18	-495.14	0	-1749.71	2	-820.14	2	55.33	2.35	93.76
82	82	103.55	-1774.55	129.45	-495.00	0	-1748.90	2	-819.78	2	55.20	2.35	93.62
82	83	105.13	-1774.46	152.04	-717.12	0	-1953.02	2	-530.36	2	73.43	2.35	124.42
83	83	105.13	-1774.46	152.04	-717.12	0	-1741.02	2	-423.79	2	103.58	2.35	158.90
83	84	106.70	-1774.33	174.65	-974.84	0	-1966.25	2	-132.21	2	134.07	2.35	205.63
84	84	106.70	-1211.26	143.38	-607.34	0	-1226.74	2	-401.80	2	134.25	2.35	205.81
84	85	108.28	-1211.26	231.56	-891.32	0	-1457.79	2	-146.00	2	180.89	2.35	277.32
85	85	108.28	-1211.26	231.56	-891.32	0	-1472.60	2	-89.97	2	168.10	2.35	258.11
85	86	109.85	-1212.20	323.16	-1329.07	0	-1812.46	2	239.66	2	252.48	2.35	387.58
86	86	109.85	-647.39	323.24	-945.62	0	-1055.20	2	-55.97	2	252.48	2.35	387.58
86	87	111.43	-647.39	411.21	-1528.39	0	-1496.93	2	346.07	2	372.13	2.35	571.23
87	87	111.43	-647.39	411.21	-1528.39	0	-1496.93	2	346.07	2	372.13	2.35	571.23
87	88	112.00	-647.39	459.49	-1784.71	0	-1688.63	2	513.13	2	426.66	2.35	654.94
88	88	112.00	-655.90	459.49	-1141.91	0	-1032.62	2	-595.90	2	426.66	2.35	654.94
88	89	113.00	-655.90	525.45	-1640.84	0	-1404.23	2	-276.61	2	533.93	2.35	819.63
89	1089	113.00	-655.90	-521.89	-1640.84	0	-1404.23	2	-276.61	2	533.93	2.35	819.63
89	90	114.00	-655.90	-455.98	-1145.69	0	-1035.23	2	-594.26	2	427.62	2.35	656.42
90	90	114.00	-647.39	-455.98	-1788.49	0	-1691.25	2	514.77	2	427.62	2.35	656.42
90	91	114.58	-647.39	-407.81	-1534.86	0	-1501.39	2	348.87	2	373.78	2.35	573.76
91	91	114.58	-647.39	-407.81	-1534.86	0	-1501.39	2	348.87	2	373.78	2.35	573.76
91	92	116.15	-647.39	-320.04	-957.78	0	-1063.62	2	-50.64	2	255.57	2.35	392.32
92	92	116.15	-1212.13	-319.97	-1341.23	0	-1820.83	2	245.04	2	255.57	2.35	392.32
92	93	117.73	-1211.20	-228.93	-909.00	0	-1484.81	2	-82.12	2	172.58	2.35	264.98
93	93	117.73	-1211.20	-228.93	-909.00	0	-1469.46	2	-140.27	2	185.86	2.35	284.94
93	94	119.30	-1211.20	-149.39	-622.55	0	-1236.78	2	-396.84	2	138.56	2.35	212.40
94	94	119.30	-1774.39	-180.66	-990.05	0	-1979.32	2	-127.30	2	138.34	2.35	212.18
94	95	120.88	-1774.52	-158.05	-722.88	0	-1744.86	2	-421.87	2	105.25	2.35	161.45
95	95	120.88	-1774.52	-158.05	-722.88	0	-1956.98	2	-528.91	2	74.69	2.35	126.50
95	96	122.45	-1774.62	-135.46	-491.26	0	-1746.43	2	-820.43	2	54.66	2.35	92.61
96	96	122.45	-1775.17	-104.19	-491.41	0	-1747.22	2	-820.76	2	54.81	2.35	92.76
96	97	124.03	-1775.17	-81.59	-345.09	0	-1622.12	2	-969.43	2	38.27	2.35	64.79
97	97	124.03	-1775.17	-81.59	-345.09	0	-1622.12	2	-969.43	2	38.27	2.35	64.79
97	98	125.60	-1775.17	-58.99	-234.39	0	-1528.58	2	-1076.98	2	25.27	2.35	42.77
98	98	125.60	-1775.17	-58.99	-234.39	0	-1528.58	2	-1076.98	2	25.27	2.35	42.77
98	99	127.18	-1775.17	-36.41	-159.23	0	-1466.54	2	-1143.48	2	15.79	2.35	26.69
99	99	127.18	-1775.17	-36.41	-159.23	0	-1466.54	2	-1143.48	2	15.79	2.35	26.69
99	100	128.75	-1775.17	-13.81	-119.67	0	-1436.05	2	-1168.85	2	9.83	2.35	16.55
100	100	128.75	-1775.17	-13.81	-119.67	0	-1436.05	2	-1168.85	2	9.83	2.35	16.55
100	101	130.33	-1775.17	8.78	-115.68	0	-1437.08	2	-1153.14	2	7.39	2.35	12.35
101	101	130.33	-1775.17	8.78	-115.68	0	-1437.08	2	-1153.14	2	7.39	2.35	12.35
101	102	131.90	-1775.17	37.09	-153.10	0	-1473.60	2	-1095.01	2	9.61	2.35	16.01
102	102	131.90	-1775.17	37.09	-153.10	0	-1473.60	2	-1095.01	2	9.61	2.35	16.01
102	103	133.48	-1775.17	59.68	-229.31	0	-1543.81	2	-995.09	2	15.97	2.35	26.68
103	103	133.48	-1775.17	59.68	-229.31	0	-1543.81	2	-995.09	2	15.97	2.35	26.68
103	104	135.05	-1775.17	82.29	-341.09	0	-1645.55	2	-854.10	2	25.86	2.35	43.29
104	104	135.05	-1774.39	113.56	-340.95	0	-1644.68	2	-853.69	2	25.77	2.35	43.20
104	105	136.63	-1774.29	136.15	-538.03	0	-1831.87	2	-569.83	2	39.15	2.35	65.73
105	105	136.63	-1774.29	136.15	-538.03	0	-1622.76	2	-480.78	2	54.08	2.35	82.77
105	106	138.20	-1774.19	158.75	-770.68	0	-1831.45	2	-197.23	2	77.60	2.35	118.79
106	106	138.20	-1211.36	127.46	-403.18	0	-1092.02	2	466.89	2	77.72	2.35	118.91
106	107	139.78	-1211.36	240.85	-675.86	0	-1315.61	2	-214.71	2	121.22	2.35	185.59
107	107	139.78	-1211.36	240.85	-675.86	0	-1334.37	2	-143.91	2	105.08	2.35	161.33
107	108	141.35	-1212.30	326.28	-1117.91	0	-1677.36	2	188.20	2	190.40	2.35	292.25
108	108	141.35	-647.39	326.37	-734.46	0	-920.03	2	-107.36	2	190.40	2.35	292.25
108	109	142.93	-647.39	426.28	-1332.76	0	-1372.31	2	300.76	2	314.10	2.35	482.14
109	109	142.93	-647.39	426.28	-1332.76	0	-1372.31	2	300.76	2	314.10	2.35	482.14
109	110	143.50	-647.39	472.66	-1590.43	0	-1565.01	2	468.65	2	368.90	2.35	566.28
110	110	143.50	-655.90	472.66	-947.62	0	-909.00	2	-640.38	2	368.90	2.35	566.28
110	111	144.50	-655.90	518.90	-1442.68	0	-1278.23	2	-321.62	2	474.94	2.35	729.07
111	1111	144.50	-655.90	-449.40	-1442.68	0	-1278.23	2	-321.62	2	474.94	2.35	729.07
111	112	145.50	-655.90	-392.16	-1022.18	0	-967.75	2	-580.48	2	382.44	2.35	587.08
112	112	145.50	-526.55	-392.16	-1580.41	0	-1459.14	2	460.94	2	382.44	2.35	587.08
112	113	145.68	-526.55	-360.43	-1513.34	0	-1409.57	2	419.46	2	367.72	2.35	564.48
113	113	145.68	-526.55	-360.43	-1513.34	0	-1409.57	2	419.46	2	367.72	2.35	564.48
113	114	146.85	-526.55	-292.48	-1127.40	0	-1121.34	2	169.54	2	285.19	2.35	437.81
114	114	146.85	-971.30	-292.27	-1428.68	0	-1716.95	2	401.19	2	285.19	2.35	437.81
114	115	148.03	-970.37	-207.69	-1134.31	0	-1492.35	2	195.36	2	225.30	2.35	345.91

CÁLCULO TENSIONAL

Hipótesis de cálculo:

INFREC1.IPF75B.EnvTrenGen.MZ-.To.MZ-

Infrecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-

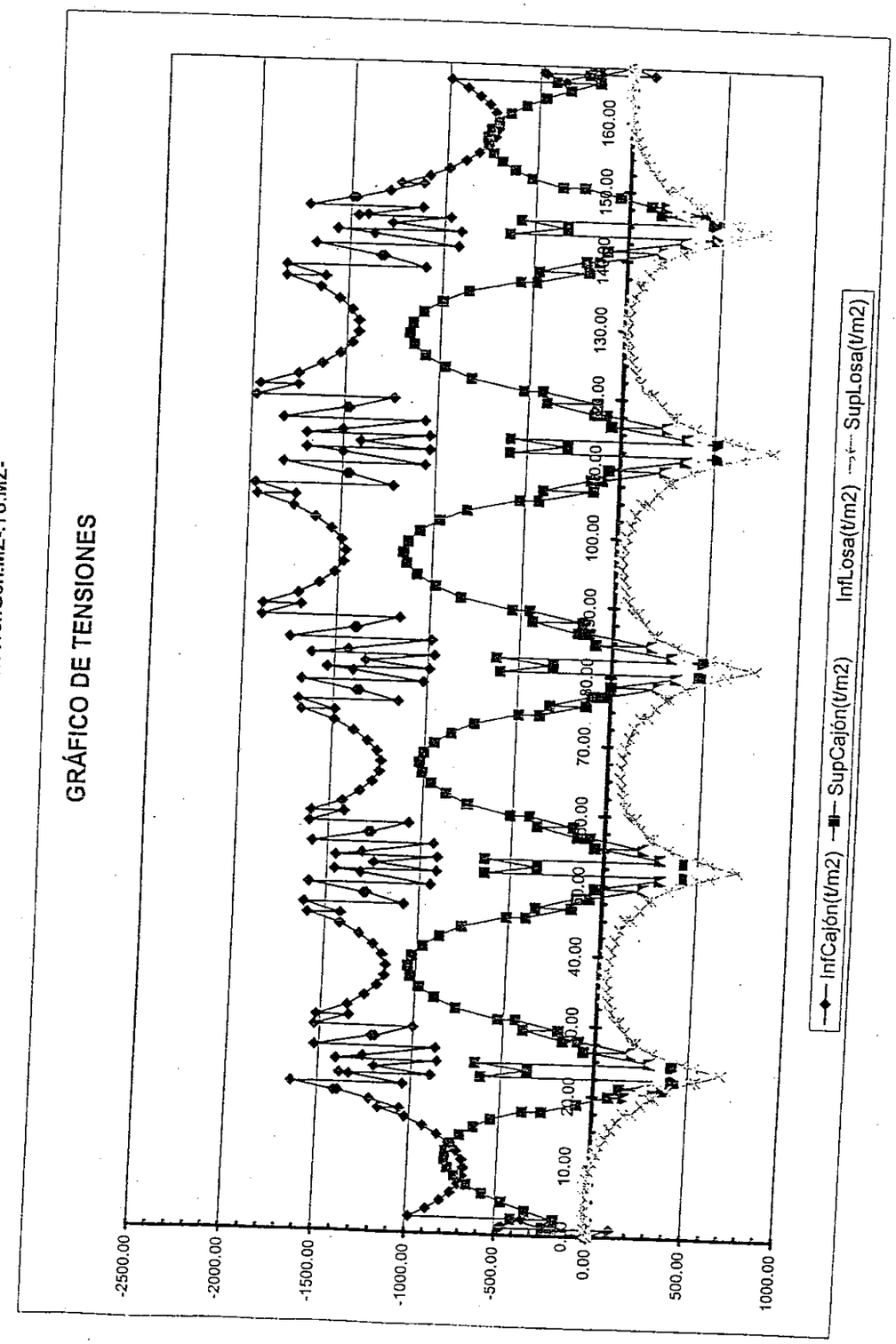
Cas... exc: ...igas + [.95; 1.05]Fase1.ISO.To + [1; 1]Prefosas + [1; 1]HBCV + [.9; 1.1]Fase4 ISO.To + [.9; 1.1]Fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; 1.22]IPF75B.MZ- + [0; .5]PA...

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-970.37	-207.69	-1134.31	0	-1471.08	2	116.00	2	243.22	2.35	372.97
115	116	149.20	-970.37	-180.76	-909.62	0	-1298.07	2	-49.28	2	198.82	2.35	304.90
116	116	149.20	-969.60	-203.77	-909.49	0	-1297.15	2	-48.74	2	198.64	2.35	304.73
116	117	150.38	-969.41	-161.18	-689.72	0	-1121.13	2	-236.23	2	160.49	2.35	246.19
117	117	150.38	-969.41	-161.18	-689.72	0	-1238.93	2	-352.81	2	113.99	2.35	193.01
117	118	151.55	-969.52	-144.32	-510.00	0	-1087.15	2	-527.73	2	92.66	2.35	156.99
118	118	151.55	-969.61	-121.43	-510.12	0	-1087.77	2	-527.96	2	92.95	2.35	157.28
118	119	152.73	-969.61	-104.57	-377.34	0	-982.92	2	-624.40	2	73.55	2.35	124.54
119	119	152.73	-969.61	-104.57	-377.34	0	-982.92	2	-624.40	2	73.55	2.35	124.54
119	120	153.90	-969.61	-87.71	-264.40	0	-895.63	2	-697.95	2	56.13	2.35	95.12
120	120	153.90	-969.61	-87.71	-264.40	0	-895.63	2	-697.95	2	56.13	2.35	95.12
120	121	155.08	-969.61	-70.85	-171.21	0	-825.87	2	-748.64	2	40.65	2.35	68.98
121	121	155.08	-969.61	-70.85	-171.21	0	-825.87	2	-748.64	2	40.65	2.35	68.98
121	122	156.25	-969.61	-54.00	-97.87	0	-773.69	2	-776.43	2	27.15	2.35	46.18
122	122	156.25	-969.61	-54.00	-97.87	0	-773.69	2	-776.43	2	27.15	2.35	46.18
122	123	157.43	-969.61	-37.14	-44.31	0	-739.03	2	-781.38	2	15.60	2.35	26.67
123	123	157.43	-969.61	-37.14	-44.31	0	-739.03	2	-781.38	2	15.60	2.35	26.67
123	124	158.60	-969.61	-20.29	-10.57	0	-721.94	2	-763.46	2	6.02	2.35	10.48
124	124	158.60	-969.61	-20.29	-10.57	0	-721.94	2	-763.46	2	6.02	2.35	10.48
25	125	159.78	-969.61	-3.44	3.38	0	-722.40	2	-722.64	2	-1.60	2.35	-2.42
25	125	159.78	-969.61	-3.44	3.38	0	-722.40	2	-722.64	2	-1.60	2.35	-2.42
126	126	160.95	-969.61	13.41	-2.51	0	-740.42	2	-658.97	2	-7.25	2.35	-11.99
126	127	162.13	-969.61	13.41	-2.51	0	-740.42	2	-658.97	2	-7.25	2.35	-11.99
127	127	162.13	-969.61	30.27	-28.16	0	-775.97	2	-572.43	2	-10.95	2.35	-18.27
127	128	163.30	-969.61	30.27	-28.16	0	-775.97	2	-572.43	2	-10.95	2.35	-18.27
128	128	163.30	-969.61	47.13	-73.63	0	-829.08	2	-463.00	2	-12.69	2.35	-21.23
128	129	164.48	-969.61	47.13	-73.63	0	-829.08	2	-463.00	2	-12.69	2.35	-21.23
129	129	164.48	-969.61	63.98	-138.90	0	-899.73	2	-330.74	2	-12.46	2.35	-20.89
129	130	165.65	-969.61	63.98	-138.90	0	-899.73	2	-330.74	2	-12.46	2.35	-20.89
130	130	165.65	-526.55	80.85	-224.00	0	-987.96	2	-175.55	2	-10.27	2.35	-17.23
130	131	166.83	-526.55	80.85	52.46	0	-356.64	2	-410.02	2	-10.27	2.35	-17.23
131	131	166.83	-526.55	97.71	-52.40	0	-462.38	2	-232.01	2	-6.12	2.35	-10.27
131	132	167.00	-526.55	97.71	-52.40	0	-462.38	2	-232.01	2	-6.12	2.35	-10.27
132	132	167.00	0.00	100.21	-69.75	0	-479.67	2	-203.49	2	-5.33	2.35	-8.95
132	133	168.00	0.00	100.21	110.72	0	109.69	2	-179.28	2	-5.33	2.35	-8.95
				152.12	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

GRÁFICO DE TENSIONES

Programa DINTEL IDEAM S.A.

INFREC1.IPF75B.EnvTrenGen.MZ-.To.MZ-



combi_t0.xls

Subanejo 6.2

TENSIONES EN ESTADOS COMBINADOS DE CARGA A TIEMPO INFINITO

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PERM1.Tinf.MZ+
manentes sin gradiente. Tinf

[1; 1]+ ...gas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4 ISO.To + [.9; 1.1]fase4 HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [1; 1]RCE.Esfuerzos + [1; 1]RPT.Esfuerzos + [1;
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-177.49	189.32	0	129.70	2	-48.76	2	-35.92	2.35	-57.90
2	2	1.00	-376.11	-177.49	141.76	0	-287.39	2	-75.47	2	-58.17	2.35	-32.01
2	3	1.18	-376.11	-174.52	172.57	0	-266.29	2	-83.39	2	-64.02	2.35	-41.43
3	3	1.18	-376.11	-174.52	172.57	0	-266.29	2	-83.39	2	-64.02	2.35	-41.43
3	4	2.35	-376.11	-154.58	365.91	0	-133.87	2	-133.04	2	-100.72	2.35	-100.58
4	4	2.35	-692.58	-154.58	236.88	0	-547.11	2	-126.99	2	-103.20	2.35	-52.60
4	5	3.53	-692.58	-134.65	406.80	0	-430.73	2	-170.64	2	-135.46	2.35	-104.58
5	5	3.53	-692.58	-134.65	406.80	0	-430.73	2	-170.64	2	-135.46	2.35	-104.58
5	6	4.70	-692.58	-114.69	553.29	0	-330.39	2	-208.28	2	-163.27	2.35	-149.39
6	6	4.70	-692.58	-114.69	553.29	0	-330.39	2	-208.28	2	-163.27	2.35	-149.39
6	7	5.88	-692.58	-94.75	676.34	0	-246.10	2	-239.92	2	-186.65	2.35	-187.02
7	7	5.88	-692.58	-94.75	676.34	0	-246.10	2	-239.92	2	-186.65	2.35	-187.02
7	8	7.05	-692.58	-74.82	775.98	0	-177.85	2	-265.56	2	-205.58	2.35	-217.49
8	8	7.05	-692.58	-74.82	775.98	0	-177.85	2	-265.56	2	-205.58	2.35	-217.49
8	9	8.23	-692.58	-54.89	852.20	0	-125.63	2	-285.20	2	-220.07	2.35	-240.79
9	9	8.23	-692.58	-54.89	852.20	0	-125.63	2	-285.20	2	-220.07	2.35	-240.79
9	10	9.40	-692.58	-34.95	905.00	0	-89.45	2	-298.83	2	-230.12	2.35	-256.91
10	10	9.40	-692.58	-34.95	905.00	0	-89.45	2	-298.83	2	-230.12	2.35	-256.91
10	11	10.58	-692.58	-15.02	934.35	0	-69.33	2	-306.45	2	-235.73	2.35	-265.86
11	11	10.58	-692.58	-15.02	934.35	0	-69.33	2	-306.45	2	-235.73	2.35	-265.86
11	12	11.75	-692.58	4.92	940.28	0	-65.25	2	-308.07	2	-236.89	2.35	-267.63
12	12	11.75	-692.58	4.92	940.28	0	-65.25	2	-308.07	2	-236.89	2.35	-267.63
12	13	12.93	-692.58	24.86	922.79	0	-77.20	2	-303.69	2	-233.61	2.35	-262.24
13	13	12.93	-692.58	24.86	922.79	0	-77.20	2	-303.69	2	-233.61	2.35	-262.24
13	14	14.10	-692.58	44.81	881.85	0	-105.21	2	-293.30	2	-225.89	2.35	-249.67
14	14	14.10	-692.58	44.81	881.85	0	-105.21	2	-293.30	2	-225.89	2.35	-249.67
14	15	15.28	-692.58	64.73	817.52	0	-149.25	2	-276.91	2	-213.73	2.35	-229.93
15	15	15.28	-692.58	64.73	817.52	0	-149.25	2	-276.91	2	-213.73	2.35	-229.93
15	16	16.45	-692.58	84.68	729.74	0	-209.34	2	-254.51	2	-197.12	2.35	-203.02
16	16	16.45	-693.17	107.59	729.88	0	-208.86	2	-254.91	2	-197.49	2.35	-203.50
16	17	17.63	-693.36	127.53	591.54	0	-303.76	2	-218.66	2	-171.48	2.35	-161.40
17	17	17.63	-693.36	127.53	591.54	0	-206.05	2	-289.44	2	-236.33	2.35	-247.56
17	18	18.80	-693.26	122.20	441.02	0	-306.72	2	-236.39	2	-195.62	2.35	-187.67
18	18	18.80	-692.61	99.29	440.85	0	-307.18	2	-235.83	2	-195.10	2.35	-187.02
18	19	19.98	-692.61	116.14	314.28	0	-391.91	2	-191.30	2	-160.89	2.35	-136.61
19	19	19.98	-692.61	116.14	314.28	0	-392.91	2	-188.40	2	-160.80	2.35	-137.38
19	20	21.15	-692.75	132.99	167.89	0	-491.36	2	-136.66	2	-121.10	2.35	-78.94
20	20	21.15	-376.11	133.02	321.74	0	-112.24	2	-154.93	2	-128.80	2.35	-134.91
20	21	22.33	-376.11	149.88	155.53	0	-223.54	2	-96.34	2	-83.85	2.35	-68.76
21	21	22.33	-376.11	149.88	155.53	0	-223.54	2	-96.34	2	-83.85	2.35	-68.76
21	22	22.50	-376.11	152.38	129.08	0	-241.25	2	-87.02	2	-76.69	2.35	-58.23
22	22	22.50	-692.34	152.38	662.41	0	-121.76	2	-355.05	2	-262.51	2.35	-285.70
22	23	23.50	-692.34	172.17	500.14	0	-230.44	2	-297.80	2	-218.61	2.35	-221.12
23	1023	23.50	-692.34	-211.92	500.14	0	-230.44	2	-297.80	2	-218.61	2.35	-221.12
23	24	24.50	-692.34	-192.14	702.19	0	-95.19	2	-368.81	2	-273.36	2.35	-301.59
24	24	24.50	-404.88	-192.14	154.30	0	-249.47	2	-98.91	2	-86.71	2.35	-68.85
24	25	24.95	-404.88	-185.69	239.29	0	-192.60	2	-128.75	2	-109.75	2.35	-102.70
25	25	24.95	-404.88	-185.69	239.29	0	-192.60	2	-128.75	2	-109.75	2.35	-102.70
25	26	26.40	-404.88	-164.89	493.44	0	-22.50	2	-217.98	2	-178.62	2.35	-203.95
26	26	26.40	-750.26	-164.87	325.60	0	-435.80	2	-198.14	2	-170.32	2.35	-143.04
26	27	27.85	-750.13	-144.07	549.59	0	-285.49	2	-276.90	2	-231.14	2.35	-232.46
27	27	27.85	-750.13	-144.07	549.59	0	-284.73	2	-279.55	2	-231.15	2.35	-231.61
27	28	29.30	-750.13	-146.08	760.87	0	-143.48	2	-353.18	2	-288.52	2.35	-315.93
28	28	29.30	-1038.71	-173.89	629.23	0	-481.68	2	-340.57	2	-284.41	2.35	-269.16
28	29	30.75	-1038.52	-149.29	863.88	0	-324.65	2	-422.85	2	-347.95	2.35	-362.51
29	29	30.75	-1038.52	-149.29	863.88	0	-471.64	2	-318.06	2	-252.61	2.35	-235.41
29	30	32.20	-1038.34	-124.68	1062.84	0	-335.07	2	-370.53	2	-290.08	2.35	-295.93
30	30	32.20	-1037.82	-96.87	1062.68	0	-335.57	2	-370.15	2	-289.74	2.35	-295.47
30	31	33.65	-1037.82	-72.25	1185.28	0	-251.59	2	-401.65	2	-312.97	2.35	-333.00
31	31	33.65	-1037.82	-72.25	1185.28	0	-251.59	2	-401.65	2	-312.97	2.35	-333.00
31	32	35.10	-1037.82	-47.66	1272.22	0	-192.04	2	-424.01	2	-329.44	2.35	-359.60
32	32	35.10	-1037.82	-47.66	1272.22	0	-192.04	2	-424.01	2	-329.44	2.35	-359.60
32	33	36.55	-1037.82	-23.05	1323.47	0	-156.93	2	-437.22	2	-339.14	2.35	-375.28
33	33	36.55	-1037.82	-23.05	1323.47	0	-156.93	2	-437.22	2	-339.14	2.35	-375.28
33	34	38.00	-1037.82	1.55	1339.04	0	-146.24	2	-441.29	2	-342.08	2.35	-380.03
34	34	38.00	-1037.82	1.55	1339.04	0	-146.24	2	-441.29	2	-342.08	2.35	-380.03
34	35	39.45	-1037.82	26.17	1318.97	0	-159.97	2	-436.22	2	-338.26	2.35	-373.88
35	35	39.45	-1037.82	26.17	1318.97	0	-159.97	2	-436.22	2	-338.26	2.35	-373.88
35	36	40.90	-1037.82	50.77	1263.19	0	-198.15	2	-422.00	2	-327.67	2.35	-356.79
36	36	40.90	-1037.82	50.77	1263.19	0	-198.15	2	-422.00	2	-327.67	2.35	-356.79
36	37	42.35	-1037.82	75.36	1171.76	0	-260.75	2	-398.64	2	-310.31	2.35	-328.79
37	37	42.35	-1037.82	75.36	1171.76	0	-260.75	2	-398.64	2	-310.31	2.35	-328.79
37	38	43.80	-1037.82	99.97	1044.62	0	-347.79	2	-366.14	2	-286.19	2.35	-289.85
38	38	43.80	-1038.37	127.79	1044.79	0	-347.29	2	-366.53	2	-286.55	2.35	-290.33
38	39	45.25	-1038.55	152.39	841.34	0	-486.90	2	-313.07	2	-248.19	2.35	-228.40

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Programa DINTEL IDEAM S.A.
PERM1.Tinf.MZ+
04/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PERM1.Tinf.MZ+
Permanentes sin gradiente. Tinf

...1]Prelosas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [1; 1]RCE.Esfuerzos + [1; 1]RPT.Esfuerzos + [1;
...oef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1038.55	152.39	841.34	0	-339.57	2	-415.66	2	-341.62	2.35	-353.36
39	40	46.70	-1038.75	177.00	602.19	0	-499.57	2	-331.95	2	-276.82	2.35	-258.18
40	40	46.70	-750.11	149.18	733.82	0	-161.34	2	-344.53	2	-280.92	2.35	-304.93
40	41	48.15	-750.11	147.14	518.39	0	-305.34	2	-269.58	2	-222.37	2.35	-218.93
41	41	48.15	-750.11	147.14	518.39	0	-305.92	2	-267.38	2	-222.38	2.35	-219.67
41	42	49.60	-750.26	167.95	289.96	0	-459.17	2	-187.27	2	-160.32	2.35	-128.44
42	42	49.60	-404.88	167.97	457.80	0	-45.93	2	-207.08	2	-168.60	2.35	-189.30
42	43	51.05	-404.88	188.76	199.18	0	-218.96	2	-116.48	2	-98.46	2.35	-86.22
43	43	51.05	-404.88	188.76	199.18	0	-218.96	2	-116.48	2	-98.46	2.35	-86.22
43	44	51.50	-404.88	195.22	112.80	0	-276.75	2	-86.22	2	-75.04	2.35	-51.79
44	44	51.50	-692.34	195.22	660.69	0	-122.47	2	-356.12	2	-261.69	2.35	-284.54
44	45	52.50	-692.34	215.00	455.57	0	-259.73	2	-284.18	2	-206.08	2.35	-202.81
45	1045	52.50	-692.34	-214.64	455.57	0	-259.73	2	-284.18	2	-206.08	2.35	-202.81
45	46	53.50	-692.34	-194.85	660.32	0	-122.71	2	-356.02	2	-261.58	2.35	-284.38
46	46	53.50	-404.88	-194.85	112.42	0	-276.99	2	-86.12	2	-74.94	2.35	-51.63
46	47	53.95	-404.88	-188.39	198.65	0	-219.30	2	-116.34	2	-98.32	2.35	-86.00
47	47	53.95	-404.88	-188.39	198.65	0	-219.30	2	-116.34	2	-98.32	2.35	-86.00
47	48	55.40	-404.88	-167.60	456.76	0	-46.60	2	-206.80	2	-168.31	2.35	-188.86
48	48	55.40	-750.26	-167.58	288.93	0	-459.86	2	-186.97	2	-160.02	2.35	-127.99
48	49	56.85	-750.12	-146.79	516.85	0	-306.95	2	-266.95	2	-221.94	2.35	-219.01
49	49	56.85	-750.12	-146.79	516.85	0	-306.37	2	-269.09	2	-221.94	2.35	-218.30
49	50	58.30	-750.12	-148.35	729.00	0	-164.54	2	-342.99	2	-279.57	2.35	-302.97
50	50	58.30	-1038.74	-176.16	597.37	0	-502.75	2	-330.41	2	-275.47	2.35	-256.22
50	51	59.75	-1038.56	-151.57	835.31	0	-343.55	2	-413.73	2	-339.94	2.35	-350.91
51	51	59.75	-1038.56	-151.57	835.31	0	-490.98	2	-311.73	2	-247.01	2.35	-226.53
51	52	61.20	-1038.36	-126.95	1037.58	0	-352.17	2	-364.92	2	-285.14	2.35	-288.07
52	52	61.20	-1037.82	-99.13	1037.42	0	-352.67	2	-364.53	2	-284.79	2.35	-287.61
52	53	62.65	-1037.82	-74.53	1163.31	0	-266.46	2	-396.76	2	-308.67	2.35	-326.15
53	53	62.65	-1037.82	-74.53	1163.31	0	-266.46	2	-396.76	2	-308.67	2.35	-326.15
53	54	64.10	-1037.82	-49.92	1253.56	0	-204.67	2	-419.86	2	-325.79	2.35	-353.79
54	54	64.10	-1037.82	-49.92	1253.56	0	-204.67	2	-419.86	2	-325.79	2.35	-353.79
54	55	65.55	-1037.82	-25.33	1308.12	0	-167.31	2	-433.80	2	-336.15	2.35	-370.50
55	55	65.55	-1037.82	-25.33	1308.12	0	-167.31	2	-433.80	2	-336.15	2.35	-370.50
55	56	67.00	-1037.82	-0.72	1327.02	0	-154.38	2	-438.61	2	-339.74	2.35	-376.29
56	56	67.00	-1037.82	-0.72	1327.02	0	-154.38	2	-438.61	2	-339.74	2.35	-376.29
56	57	68.45	-1037.82	23.89	1310.23	0	-165.89	2	-434.27	2	-336.56	2.35	-371.15
57	57	68.45	-1037.82	23.89	1310.23	0	-165.89	2	-434.27	2	-336.56	2.35	-371.15
57	58	69.90	-1037.82	48.47	1257.78	0	-201.82	2	-420.79	2	-326.63	2.35	-355.10
58	58	69.90	-1037.82	48.47	1257.78	0	-201.82	2	-420.79	2	-326.63	2.35	-355.10
58	59	71.35	-1037.82	73.09	1169.64	0	-262.18	2	-398.16	2	-309.92	2.35	-328.12
59	59	71.35	-1037.82	73.09	1169.64	0	-262.18	2	-398.16	2	-309.92	2.35	-328.12
59	60	72.80	-1037.82	97.69	1045.82	0	-346.98	2	-366.39	2	-286.45	2.35	-290.22
60	60	72.80	-1038.35	125.50	1045.98	0	-346.49	2	-366.77	2	-286.80	2.35	-290.68
60	61	74.25	-1038.55	150.11	845.81	0	-483.87	2	-314.05	2	-249.09	2.35	-229.79
61	61	74.25	-1038.55	150.11	845.81	0	-336.60	2	-417.08	2	-342.91	2.35	-355.17
61	62	75.70	-1038.73	174.71	609.96	0	-494.42	2	-334.42	2	-279.04	2.35	-281.33
62	62	75.70	-750.12	146.89	741.60	0	-156.21	2	-347.01	2	-283.15	2.35	-308.09
62	63	77.15	-750.12	144.43	540.76	0	-290.56	2	-276.73	2	-228.67	2.35	-228.02
63	63	77.15	-750.12	144.43	540.76	0	-291.19	2	-274.47	2	-228.67	2.35	-228.75
63	64	78.60	-750.26	165.22	316.25	0	-441.85	2	-195.57	2	-167.71	2.35	-139.12
64	64	78.60	-404.88	165.24	484.09	0	-28.57	2	-215.40	2	-176.00	2.35	-200.01
64	65	80.05	-404.88	186.05	229.41	0	-199.00	2	-126.02	2	-106.98	2.35	-98.55
65	65	80.05	-404.88	186.05	229.41	0	-199.00	2	-126.02	2	-106.98	2.35	-98.55
65	66	80.50	-404.88	192.50	144.25	0	-256.00	2	-96.14	2	-83.89	2.35	-64.62
66	66	80.50	-692.34	192.50	692.14	0	-101.71	2	-366.04	2	-270.54	2.35	-297.36
66	67	81.50	-692.34	212.29	489.75	0	-237.18	2	-294.94	2	-215.70	2.35	-216.75
67	1067	81.50	-692.34	-231.86	489.75	0	-237.18	2	-294.94	2	-215.70	2.35	-216.75
67	68	82.50	-692.34	-212.06	711.72	0	-88.62	2	-372.85	2	-275.87	2.35	-305.18
68	68	82.50	-462.42	-212.06	134.71	0	-312.50	2	-99.21	2	-87.56	2.35	-61.87
68	69	83.08	-462.42	-203.82	254.27	0	-232.50	2	-141.13	2	-119.97	2.35	-109.52
69	69	83.08	-462.42	-203.82	254.27	0	-232.50	2	-141.13	2	-119.97	2.35	-109.52
69	70	84.65	-462.42	-181.22	557.51	0	-29.59	2	-247.46	2	-202.19	2.35	-230.35
70	70	84.65	-865.35	-181.21	361.71	0	-511.67	2	-224.34	2	-192.54	2.35	-159.35
70	71	86.23	-865.21	-158.63	629.35	0	-332.17	2	-318.29	2	-265.22	2.35	-266.19
71	71	86.23	-865.21	-158.63	629.35	0	-331.62	2	-320.27	2	-265.22	2.35	-265.55
71	72	87.80	-865.21	-160.25	893.41	0	-155.20	2	-411.86	2	-337.04	2.35	-371.05
72	72	87.80	-1268.90	-191.53	709.05	0	-628.83	2	-393.97	2	-331.05	2.35	-305.30
72	73	89.38	-1268.71	-164.81	990.08	0	-440.77	2	-492.49	2	-407.20	2.35	-417.13
73	73	89.38	-1268.71	-164.81	990.08	0	-621.52	2	-369.95	2	-296.13	2.35	-267.93
73	74	90.95	-1268.50	-138.08	1229.05	0	-457.48	2	-432.91	2	-341.17	2.35	-340.64
74	74	90.95	-1267.98	-106.80	1228.87	0	-458.01	2	-432.52	2	-340.81	2.35	-340.17
74	75	92.53	-1267.98	-80.07	1376.03	0	-357.23	2	-470.25	2	-368.72	2.35	-385.22
75	75	92.53	-1267.98	-80.07	1376.03	0	-357.23	2	-470.25	2	-368.72	2.35	-385.22
75	76	94.10	-1267.98	-53.35	1481.11	0	-285.28	2	-497.18	2	-388.65	2.35	-417.39
76	76	94.10	-1267.98	-53.35	1481.11	0	-285.28	2	-497.18	2	-388.65	2.35	-417.39
76	77	95.68	-1267.98	-26.62	1544.10	0	-242.14	2	-513.33	2	-400.60	2.35	-436.67

CÁLCULO TENSIONAL

Hipótesis de cálculo:

PERM1.Tinf.MZ+

rmanentes sin gradiente. Tinf

[1; 1]Pvigas + [.95; 1.05]Fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]Fase4.ISO.To + [.9; 1.1]Fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [1; 1]RCE.Esfuerzos + [1; 1]RPT.Esfuerzos + [

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1267.98	-26.62	1544.10	0	-242.14	2	-513.33	2	-400.60	2.35	-436.6
77	78	97.25	-1267.98	0.11	1564.98	0	-227.84	2	-518.68	2	-404.56	2.35	-443.0
78	78	97.25	-1267.98	0.11	1564.98	0	-227.84	2	-518.68	2	-404.56	2.35	-443.0
78	79	98.83	-1267.98	26.83	1543.79	0	-242.35	2	-513.26	2	-400.55	2.35	-436.5
79	79	98.83	-1267.98	26.83	1543.79	0	-242.35	2	-513.26	2	-400.55	2.35	-436.5
79	80	100.40	-1267.98	53.56	1480.47	0	-285.71	2	-497.03	2	-388.54	2.35	-417.1
80	80	100.40	-1267.98	53.56	1480.47	0	-285.71	2	-497.03	2	-388.54	2.35	-417.1
80	81	101.98	-1267.98	80.28	1375.10	0	-357.86	2	-470.03	2	-368.56	2.35	-384.9
81	81	101.98	-1267.98	80.28	1375.10	0	-357.86	2	-470.03	2	-368.56	2.35	-384.9
81	82	103.55	-1267.98	107.00	1227.63	0	-458.85	2	-432.24	2	-340.60	2.35	-339.7
82	82	103.55	-1268.50	138.29	1227.81	0	-458.33	2	-432.62	2	-340.95	2.35	-340.2
82	83	105.13	-1268.70	165.01	988.56	0	-622.55	2	-369.59	2	-295.86	2.35	-267.4
83	83	105.13	-1268.70	165.01	988.56	0	-441.77	2	-491.99	2	-406.82	2.35	-416.5
83	84	106.70	-1268.88	191.74	707.19	0	-630.05	2	-393.36	2	-330.59	2.35	-304.5
84	84	106.70	-865.19	160.45	891.55	0	-156.42	2	-411.25	2	-336.58	2.35	-370.2
84	85	108.28	-865.19	157.68	639.83	0	-324.69	2	-323.61	2	-268.20	2.35	-269.8
85	85	108.28	-865.19	157.68	639.83	0	-325.21	2	-321.71	2	-268.20	2.35	-270.4
85	86	109.85	-865.33	180.28	373.69	0	-503.72	2	-228.25	2	-195.94	2.35	-164.1
86	86	109.85	-462.42	180.30	569.50	0	-21.64	2	-251.36	2	-205.60	2.35	-235.1
86	87	111.43	-462.42	202.89	267.76	0	-223.56	2	-145.52	2	-123.81	2.35	-114.9
87	87	111.43	-462.42	202.89	267.76	0	-223.56	2	-145.52	2	-123.81	2.35	-114.9
87	88	112.00	-462.42	211.14	148.71	0	-303.22	2	-103.76	2	-91.54	2.35	-67.5
88	88	112.00	-692.34	211.14	725.72	0	-79.35	2	-377.41	2	-279.85	2.35	-310.8
88	89	113.00	-692.34	230.93	504.70	0	-227.27	2	-299.81	2	-219.95	2.35	-222.7
89	1089	113.00	-692.34	-231.93	504.70	0	-227.27	2	-299.81	2	-219.95	2.35	-222.7
89	90	114.00	-692.34	-212.13	726.78	0	-78.65	2	-377.73	2	-280.14	2.35	-311.2
90	90	114.00	-462.42	-212.13	149.76	0	-302.53	2	-104.09	2	-91.83	2.35	-67.9
90	91	114.58	-462.42	-203.89	269.34	0	-222.52	2	-146.01	2	-124.25	2.35	-115.6
91	91	114.58	-462.42	-203.89	269.34	0	-222.52	2	-146.01	2	-124.25	2.35	-115.6
91	92	116.15	-462.42	-181.29	572.69	0	-19.54	2	-252.34	2	-206.49	2.35	-236.5
92	92	116.15	-865.34	-181.29	376.89	0	-501.60	2	-229.23	2	-196.85	2.35	-165.5
92	93	117.73	-865.20	-158.70	644.63	0	-322.04	2	-323.18	2	-269.56	2.35	-272.4
93	93	117.73	-865.20	-158.70	644.63	0	-321.52	2	-325.14	2	-269.55	2.35	-271.7
93	94	119.30	-865.20	-161.54	898.41	0	-151.89	2	-413.44	2	-338.51	2.35	-373.0
94	94	119.30	-1268.90	-192.83	714.06	0	-625.52	2	-395.56	2	-332.52	2.35	-307.3
94	95	120.88	-1268.71	-166.08	997.13	0	-436.11	2	-494.74	2	-409.23	2.35	-419.9
95	95	120.88	-1268.71	-166.08	997.13	0	-616.75	2	-371.50	2	-297.55	2.35	-270.1
95	96	122.45	-1268.52	-139.37	1238.12	0	-451.36	2	-434.92	2	-342.98	2.35	-343.4
96	96	122.45	-1267.98	-108.08	1237.95	0	-451.87	2	-434.53	2	-342.62	2.35	-342.9
96	97	124.03	-1267.98	-81.36	1387.15	0	-349.71	2	-472.71	2	-370.92	2.35	-388.6
97	97	124.03	-1267.98	-81.36	1387.15	0	-349.71	2	-472.71	2	-370.92	2.35	-388.6
97	98	125.60	-1267.98	-54.63	1494.24	0	-276.39	2	-500.10	2	-391.24	2.35	-421.4
98	98	125.60	-1267.98	-54.63	1494.24	0	-276.39	2	-500.10	2	-391.24	2.35	-421.4
98	99	127.18	-1267.98	-27.91	1559.25	0	-231.89	2	-516.69	2	-403.57	2.35	-441.3
99	99	127.18	-1267.98	-27.91	1559.25	0	-231.89	2	-516.69	2	-403.57	2.35	-441.3
99	100	128.75	-1267.98	-1.19	1582.16	0	-216.21	2	-522.51	2	-407.93	2.35	-448.4
100	100	128.75	-1267.98	-1.19	1582.16	0	-216.21	2	-522.51	2	-407.93	2.35	-448.4
100	101	130.33	-1267.98	25.53	1563.01	0	-229.34	2	-517.53	2	-404.30	2.35	-442.5
101	101	130.33	-1267.98	25.53	1563.01	0	-229.34	2	-517.53	2	-404.30	2.35	-442.5
101	102	131.90	-1267.98	52.26	1501.74	0	-271.31	2	-501.77	2	-392.69	2.35	-423.81
102	102	131.90	-1267.98	52.26	1501.74	0	-271.31	2	-501.77	2	-392.69	2.35	-423.81
102	103	133.48	-1267.98	78.99	1398.39	0	-342.10	2	-475.22	2	-373.10	2.35	-392.1
103	103	133.48	-1267.98	78.99	1398.39	0	-342.10	2	-475.22	2	-373.10	2.35	-392.1
103	104	135.05	-1267.98	105.71	1252.93	0	-441.73	2	-437.87	2	-345.53	2.35	-347.6
104	104	135.05	-1268.49	137.01	1253.11	0	-441.20	2	-438.26	2	-345.88	2.35	-348.1
104	105	136.63	-1268.68	163.73	1015.86	0	-604.06	2	-375.67	2	-301.17	2.35	-275.9
105	105	136.63	-1268.68	163.73	1015.86	0	-423.72	2	-500.72	2	-414.43	2.35	-427.6
105	106	138.20	-1268.89	190.46	736.52	0	-510.66	2	-402.75	2	-338.76	2.35	-316.4
106	106	138.20	-865.20	159.16	920.88	0	-137.03	2	-420.63	2	-344.75	2.35	-382.2
106	107	139.78	-865.20	157.62	656.48	0	-313.69	2	-328.93	2	-272.84	2.35	-276.5
107	107	139.78	-865.20	157.62	656.48	0	-314.36	2	-326.57	2	-272.83	2.35	-277.3
107	108	141.35	-865.34	180.21	390.44	0	-492.81	2	-233.10	2	-200.60	2.35	-171.1
108	108	141.35	-462.42	180.23	586.24	0	-10.71	2	-256.23	2	-210.26	2.35	-242.1
108	109	142.93	-462.42	202.83	284.60	0	-212.57	2	-150.39	2	-128.49	2.35	-121.9
109	109	142.93	-462.42	202.83	284.60	0	-212.57	2	-150.39	2	-128.49	2.35	-121.9
109	110	143.50	-462.42	211.07	165.57	0	-292.22	2	-108.63	2	-96.23	2.35	-74.57
110	110	143.50	-692.34	211.07	742.59	0	-68.35	2	-382.27	2	-284.54	2.35	-317.87
110	111	144.50	-692.34	230.86	521.66	0	-216.21	2	-304.68	2	-224.66	2.35	-229.87
111	1111	144.50	-692.34	-171.26	521.66	0	-216.21	2	-304.68	2	-224.66	2.35	-229.87
1	112	145.50	-692.34	-151.47	683.04	0	-108.12	2	-361.64	2	-268.30	2.35	-294.08
112	112	145.50	-376.11	-151.47	149.71	0	-227.51	2	-93.61	2	-82.49	2.35	-66.61
112	113	145.68	-376.11	-148.96	175.98	0	-210.02	2	-102.87	2	-89.59	2.35	-77.07
113	113	145.68	-376.11	-148.96	175.98	0	-210.02	2	-102.87	2	-89.59	2.35	-77.07
113	114	146.85	-376.11	-132.11	341.10	0	-99.44	2	-161.12	2	-134.25	2.35	-142.78
114	114	146.85	-692.75	-132.09	187.26	0	-478.56	2	-142.84	2	-126.54	2.35	-86.81
114	115	148.03	-692.61	-115.23	332.57	0	-380.82	2	-194.25	2	-165.94	2.35	-144.82

CÁLCULO TENSIONAL

Hipótesis de cálculo:

PERM1.Tinf.MZ+

Permanentes sin gradiente. Tinf

[1; 1]Pvigas + [.95; 1.05]Fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]Fase4.ISO.To + [.9; 1.1]Fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [1; 1]RCE.Esfuerzos + [1; 1]RPT.Esfuerzos + [1;

Coef. exc:

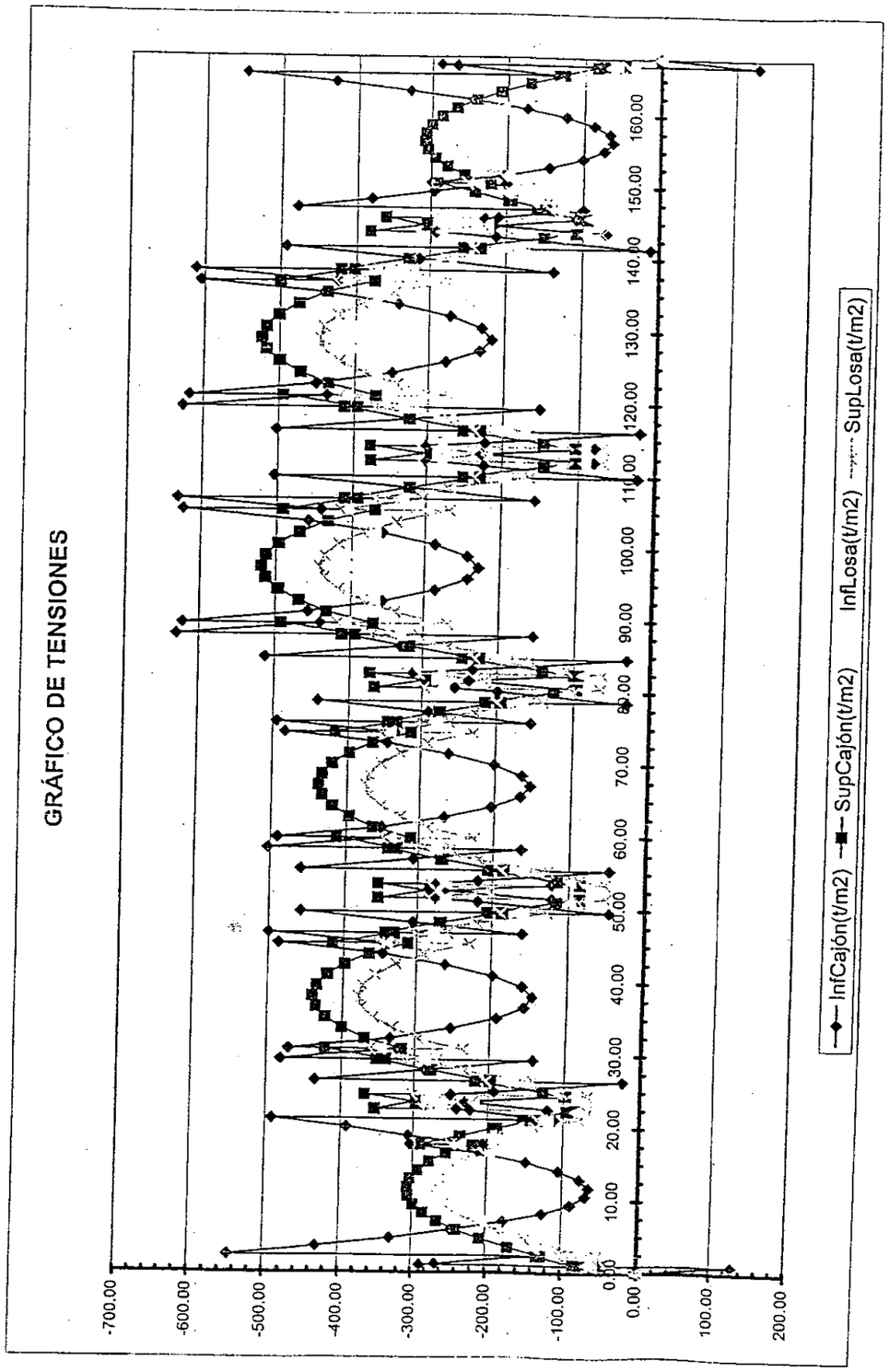
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-692.61	-115.23	332.57	0	-379.82	2	-197.15	2	-166.03	2.35	-144.04
115	116	149.20	-692.61	-98.37	458.07	0	-295.80	2	-241.33	2	-199.85	2.35	-194.02
116	116	149.20	-693.24	-121.28	458.24	0	-295.33	2	-241.88	2	-200.46	2.35	-194.66
116	117	150.38	-693.35	-127.07	599.25	0	-200.95	2	-291.89	2	-238.52	2.35	-250.69
117	117	150.38	-693.35	-127.07	599.25	0	-298.54	2	-220.36	2	-173.01	2.35	-163.79
117	118	151.55	-693.17	-107.13	737.08	0	-203.99	2	-256.50	2	-198.92	2.35	-205.74
118	118	151.55	-692.58	-84.24	736.94	0	-204.47	2	-256.10	2	-198.55	2.35	-205.25
118	119	152.73	-692.58	-64.30	824.19	0	-144.74	2	-278.39	2	-215.06	2.35	-232.00
119	119	152.73	-692.58	-64.30	824.19	0	-144.74	2	-278.39	2	-215.06	2.35	-232.00
119	120	153.90	-692.58	-44.35	888.03	0	-101.03	2	-294.67	2	-227.12	2.35	-251.59
120	120	153.90	-692.58	-44.35	888.03	0	-101.03	2	-294.67	2	-227.12	2.35	-251.59
120	121	155.08	-692.58	-24.42	928.43	0	-73.39	2	-304.94	2	-234.74	2.35	-263.99
121	121	155.08	-692.58	-24.42	928.43	0	-73.39	2	-304.94	2	-234.74	2.35	-263.99
121	122	156.25	-692.58	-4.48	945.42	0	-61.77	2	-309.21	2	-237.91	2.35	-269.23
122	122	156.25	-692.58	-4.48	945.42	0	-61.77	2	-309.21	2	-237.91	2.35	-269.23
122	123	157.43	-692.58	15.45	938.96	0	-66.21	2	-307.47	2	-236.65	2.35	-267.29
123	123	157.43	-692.58	15.45	938.96	0	-66.21	2	-307.47	2	-236.65	2.35	-267.29
123	124	158.60	-692.58	35.39	909.12	0	-86.66	2	-299.74	2	-230.94	2.35	-258.19
124	124	158.60	-692.58	35.39	909.12	0	-86.66	2	-299.74	2	-230.94	2.35	-258.19
124	125	159.78	-692.58	55.32	855.81	0	-123.19	2	-286.00	2	-220.79	2.35	-241.91
125	125	159.78	-692.58	55.32	855.81	0	-123.19	2	-286.00	2	-220.79	2.35	-241.91
125	126	160.95	-692.58	75.26	779.06	0	-175.76	2	-266.24	2	-206.19	2.35	-218.45
126	126	160.95	-692.58	75.26	779.06	0	-175.76	2	-266.24	2	-206.19	2.35	-218.45
126	127	162.13	-692.58	95.20	678.92	0	-244.36	2	-240.50	2	-187.16	2.35	-187.83
127	127	162.13	-692.58	95.20	678.92	0	-244.36	2	-240.50	2	-187.16	2.35	-187.83
127	128	163.30	-692.58	115.13	555.34	0	-329.00	2	-208.74	2	-163.68	2.35	-150.03
128	128	163.30	-692.58	115.13	555.34	0	-329.00	2	-208.74	2	-163.68	2.35	-150.03
128	129	164.48	-692.58	135.08	408.34	0	-429.69	2	-170.98	2	-135.76	2.35	-105.06
129	129	164.48	-692.58	135.08	408.34	0	-429.69	2	-170.98	2	-135.76	2.35	-105.06
129	130	165.65	-692.58	155.02	237.92	0	-546.41	2	-127.22	2	-103.40	2.35	-52.93
130	130	165.65	-376.11	155.02	366.95	0	-133.16	2	-133.27	2	-100.93	2.35	-100.91
130	131	166.83	-376.11	174.96	173.08	0	-265.94	2	-83.50	2	-64.12	2.35	-41.59
131	131	166.83	-376.11	174.96	173.08	0	-265.94	2	-83.50	2	-64.12	2.35	-41.59
131	132	167.00	-376.11	177.93	142.18	0	-287.11	2	-75.57	2	-58.26	2.35	-32.14
132	132	167.00	0.00	177.93	189.74	0	129.98	2	-48.85	2	-36.00	2.35	-58.03
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PERM1.Tinf.MZ-
. Permanentes sin gradiente. Tinf

1]Pvigas + [.85; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [1; 1]RCE.Esfuerzos + [1; 1]RPT.Esfuerzos + [1;
ref. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-155.52	166.04	0	113.94	2	-43.56	2	-31.41	2.35	-50.63
2	2	1.00	-426.26	-155.52	101.29	0	-358.78	2	-73.85	2	-56.65	2.35	-21.22
2	3	1.18	-426.26	-153.01	128.29	0	-340.25	2	-80.91	2	-61.76	2.35	-29.46
3	3	1.18	-426.26	-153.01	128.29	0	-340.25	2	-80.91	2	-61.76	2.35	-29.46
3	4	2.35	-426.26	-136.15	298.17	0	-223.72	2	-125.33	2	-93.92	2.35	-81.29
4	4	2.35	-784.92	-136.15	142.81	0	-692.01	2	-118.72	2	-96.71	2.35	-26.81
4	5	3.53	-784.92	-119.30	292.88	0	-589.06	2	-157.95	2	-125.12	2.35	-72.60
5	5	3.53	-784.92	-119.30	292.88	0	-589.06	2	-157.95	2	-125.12	2.35	-72.60
5	6	4.70	-784.92	-102.43	423.15	0	-499.71	2	-191.97	2	-149.80	2.35	-112.35
6	6	4.70	-784.92	-102.43	423.15	0	-499.71	2	-191.97	2	-149.80	2.35	-112.35
6	7	5.88	-784.92	-85.57	533.61	0	-423.95	2	-220.80	2	-170.74	2.35	-146.05
7	7	5.88	-784.92	-85.57	533.61	0	-423.95	2	-220.80	2	-170.74	2.35	-146.05
7	8	7.05	-784.92	-68.72	624.27	0	-361.77	2	-244.44	2	-187.93	2.35	-173.71
8	8	7.05	-784.92	-68.72	624.27	0	-361.77	2	-244.44	2	-187.93	2.35	-173.71
8	9	8.23	-784.92	-51.87	695.14	0	-313.18	2	-262.88	2	-201.39	2.35	-195.33
9	9	8.23	-784.92	-51.87	695.14	0	-313.18	2	-262.88	2	-201.39	2.35	-195.33
9	10	9.40	-784.92	-35.02	746.20	0	-278.18	2	-276.12	2	-211.11	2.35	-210.91
10	10	9.40	-784.92	-35.02	746.20	0	-278.18	2	-276.12	2	-211.11	2.35	-210.91
10	11	10.58	-784.92	-18.16	777.43	0	-256.78	2	-284.16	2	-217.09	2.35	-220.44
11	11	10.58	-784.92	-18.16	777.43	0	-256.78	2	-284.16	2	-217.09	2.35	-220.44
11	12	11.75	-784.92	-1.31	788.87	0	-248.97	2	-287.01	2	-219.33	2.35	-223.94
12	12	11.75	-784.92	-1.31	788.87	0	-248.97	2	-287.01	2	-219.33	2.35	-223.94
12	13	12.93	-784.92	15.55	780.52	0	-254.74	2	-284.66	2	-217.83	2.35	-221.39
13	13	12.93	-784.92	15.55	780.52	0	-254.74	2	-284.66	2	-217.83	2.35	-221.39
13	14	14.10	-784.92	32.41	752.33	0	-274.12	2	-277.11	2	-212.58	2.35	-212.80
14	14	14.10	-784.92	32.41	752.33	0	-274.12	2	-277.11	2	-212.58	2.35	-212.80
14	15	15.28	-784.92	49.26	704.37	0	-307.07	2	-264.37	2	-203.60	2.35	-198.17
15	15	15.28	-784.92	49.26	704.37	0	-307.07	2	-264.37	2	-203.60	2.35	-198.17
15	16	16.45	-784.92	66.12	636.58	0	-353.63	2	-246.43	2	-190.88	2.35	-177.49
16	16	16.45	-785.27	91.21	636.74	0	-353.04	2	-246.76	2	-191.18	2.35	-177.92
16	17	17.63	-785.42	108.07	519.43	0	-433.74	2	-214.98	2	-169.28	2.35	-142.40
17	17	17.63	-785.42	108.07	519.43	0	-324.24	2	-281.58	2	-230.44	2.35	-225.63
17	18	18.80	-785.88	150.17	371.05	0	-423.74	2	-229.26	2	-190.55	2.35	-166.83
18	18	18.80	-785.09	125.07	370.87	0	-424.18	2	-228.64	2	-189.97	2.35	-166.13
18	19	19.98	-785.09	144.99	212.18	0	-530.13	2	-173.84	2	-146.84	2.35	-102.64
19	19	19.98	-785.09	144.99	212.18	0	-531.35	2	-170.30	2	-146.72	2.35	-103.59
19	20	21.15	-785.23	164.93	30.07	0	-653.43	2	-107.08	2	-97.10	2.35	-30.62
20	20	21.15	-426.26	164.98	212.60	0	-222.84	2	-127.96	2	-106.21	2.35	-94.68
20	21	22.33	-426.26	184.92	7.03	0	-360.17	2	-56.73	2	-50.32	2.35	-12.52
21	21	22.33	-426.26	184.92	7.03	0	-360.17	2	-56.73	2	-50.32	2.35	-12.52
21	22	22.50	-426.26	187.88	-25.59	0	-381.96	2	-45.43	2	-41.45	2.35	0.52
22	22	22.50	-546.59	187.88	450.34	0	-153.03	2	-253.26	2	-183.20	2.35	-190.26
22	23	23.50	-546.59	210.29	251.26	0	-286.04	2	-184.20	2	-129.08	2.35	-110.72
23	1023	23.50	-546.59	-250.05	251.26	0	-286.04	2	-184.20	2	-129.08	2.35	-110.72
23	24	24.50	-546.59	-227.65	490.14	0	-126.46	2	-267.00	2	-194.06	2.35	-206.17
24	24	24.50	-458.86	-227.65	-3.04	0	-394.91	2	-57.03	2	-51.33	2.35	-9.35
24	25	24.95	-458.86	-220.02	97.66	0	-327.64	2	-91.90	2	-78.73	2.35	-49.60
25	25	24.95	-458.86	-220.02	97.66	0	-327.64	2	-91.90	2	-78.73	2.35	-49.60
25	26	26.40	-458.86	-195.42	398.84	0	-126.46	2	-196.19	2	-160.68	2.35	-169.96
26	26	26.40	-850.30	-195.40	199.70	0	-595.81	2	-173.48	2	-150.82	2.35	-100.23
26	27	27.85	-850.17	-170.80	465.20	0	-418.06	2	-265.54	2	-223.17	2.35	-206.53
27	27	27.85	-850.17	-170.80	465.20	0	-417.10	2	-268.90	2	-223.19	2.35	-205.46
27	28	29.30	-850.17	-123.39	677.56	0	-275.13	2	-342.87	2	-280.86	2.35	-290.23
28	28	29.30	-1176.84	-153.85	520.93	0	-659.18	2	-328.19	2	-275.66	2.35	-236.43
28	29	30.75	-1176.69	-133.05	729.31	0	-519.47	2	-402.31	2	-331.86	2.35	-319.03
29	29	30.75	-1176.69	-133.05	729.31	0	-684.55	2	-306.25	2	-244.25	2.35	-198.82
29	30	32.20	-1176.55	-112.25	907.52	0	-561.97	2	-354.40	2	-277.67	2.35	-252.82
30	30	32.20	-1176.20	-81.78	907.34	0	-562.55	2	-354.07	2	-277.37	2.35	-252.40
30	31	33.65	-1176.20	-60.98	1010.84	0	-491.51	2	-381.31	2	-296.89	2.35	-283.96
31	31	33.65	-1176.20	-60.98	1010.84	0	-491.51	2	-381.31	2	-296.89	2.35	-283.95
31	32	35.10	-1176.20	-40.19	1084.18	0	-441.16	2	-400.63	2	-310.72	2.35	-306.32
32	32	35.10	-1176.20	-40.19	1084.18	0	-441.16	2	-400.63	2	-310.72	2.35	-306.32
32	33	36.55	-1176.20	-19.38	1127.35	0	-411.52	2	-412.04	2	-318.86	2.35	-319.48
33	33	36.55	-1176.20	-19.38	1127.35	0	-411.52	2	-412.04	2	-318.86	2.35	-319.48
33	34	38.00	-1176.20	1.42	1140.36	0	-402.57	2	-415.54	2	-321.30	2.35	-323.44
34	34	38.00	-1176.20	1.42	1140.36	0	-402.57	2	-415.54	2	-321.30	2.35	-323.44
34	35	39.45	-1176.20	22.23	1123.24	0	-414.30	2	-411.13	2	-318.05	2.35	-318.20
35	35	39.45	-1176.20	22.23	1123.24	0	-414.30	2	-411.13	2	-318.05	2.35	-318.20
35	36	40.90	-1176.20	43.03	1075.92	0	-446.75	2	-398.80	2	-309.09	2.35	-303.76
36	36	40.90	-1176.20	43.03	1075.92	0	-446.75	2	-398.80	2	-309.09	2.35	-303.76
36	37	42.35	-1176.20	63.81	998.47	0	-499.88	2	-378.56	2	-294.45	2.35	-280.12
37	37	42.35	-1176.20	63.81	998.47	0	-499.88	2	-378.56	2	-294.45	2.35	-280.12
37	38	43.80	-1176.20	84.62	890.84	0	-573.72	2	-350.40	2	-274.11	2.35	-247.27
38	38	43.80	-1176.58	115.09	891.02	0	-573.14	2	-350.75	2	-274.43	2.35	-247.70
38	39	45.25	-1176.72	135.89	708.70	0	-698.50	2	-301.69	2	-240.19	2.35	-192.42



CÁLCULO TENSIONAL

Hipótesis de cálculo:
PERM1.Tinf.MZ-
...nanentes sin gradiente. Tinf
[1; 1)Pvigas + [.95; 1.05)fase1.ISO.To + [1; 1)Prelosas + [1; 1)HBCV + [.9; 1.1)fase4.ISO.To + [9; 1.1)fase4.HIP.To + [1; 1)HBCP + [1; 1)HVOL + [.7; 1.3)CMBAL + [1; 1)CMRESTO + [1; 1)RCE.Esfuerzos + [1; 1)RPT.Esfuerzos + [1;
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1176.72	135.89	708.70	0	-533.11	2	-395.74	2	-326.05	2.35	-310.67
39	40	46.70	-1176.88	156.70	496.21	0	-675.53	2	-320.31	2	-268.69	2.35	-226.40
40	40	46.70	-850.10	126.23	652.84	0	-291.44	2	-334.95	2	-273.86	2.35	-280.16
40	41	48.15	-850.10	173.67	435.97	0	-436.39	2	-259.55	2	-214.92	2.35	-193.57
41	41	48.15	-850.10	173.67	435.97	0	-437.11	2	-256.79	2	-214.93	2.35	-194.51
41	42	49.60	-850.25	198.29	166.33	0	-617.61	2	-163.49	2	-141.41	2.35	-86.49
42	42	49.60	-458.86	198.30	365.46	0	-148.34	2	-186.18	2	-151.25	2.35	-156.21
42	43	51.05	-458.86	222.90	60.10	0	-352.26	2	-80.64	2	-68.12	2.35	-34.10
43	43	51.05	-458.86	222.90	60.10	0	-352.26	2	-80.64	2	-68.12	2.35	-34.10
43	44	51.50	-458.86	230.53	-41.91	0	-420.39	2	-45.38	2	-40.35	2.35	6.69
44	44	51.50	-546.59	230.53	451.27	0	-151.94	2	-255.34	2	-183.08	2.35	-190.14
44	45	52.50	-546.59	252.93	209.53	0	-313.41	2	-171.68	2	-117.29	2.35	-93.50
45	1045	52.50	-546.59	-252.22	209.53	0	-313.41	2	-171.68	2	-117.29	2.35	-93.50
45	46	53.50	-546.59	-229.81	450.53	0	-152.42	2	-255.13	2	-182.87	2.35	-189.83
46	46	53.50	-458.86	-229.81	-42.65	0	-420.87	2	-45.16	2	-40.15	2.35	7.00
46	47	53.95	-458.86	-222.16	59.05	0	-352.95	2	-80.33	2	-67.83	2.35	-33.66
47	47	53.95	-458.86	-222.16	59.05	0	-352.95	2	-80.33	2	-67.83	2.35	-33.66
47	48	55.40	-458.86	-197.56	363.36	0	-149.71	2	-185.57	2	-150.66	2.35	-155.33
48	48	55.40	-850.28	-197.54	164.23	0	-619.01	2	-162.88	2	-140.82	2.35	-85.61
49	49	56.85	-850.14	-172.95	432.84	0	-439.20	2	-255.88	2	-214.05	2.35	-193.19
49	50	58.30	-850.14	-172.95	432.84	0	-438.47	2	-258.55	2	-214.05	2.35	-192.31
50	50	58.30	-1176.88	-125.97	651.36	0	-292.43	2	-334.49	2	-273.45	2.35	-279.57
50	51	59.75	-1176.73	-156.43	494.73	0	-676.51	2	-319.84	2	-268.26	2.35	-225.80
51	51	59.75	-1176.73	-135.64	706.86	0	-534.32	2	-395.16	2	-325.52	2.35	-309.93
51	52	61.20	-1176.56	-114.83	888.83	0	-699.75	2	-301.28	2	-239.82	2.35	-191.85
52	52	61.20	-1176.20	-84.36	888.65	0	-574.62	2	-350.26	2	-273.98	2.35	-247.02
52	53	62.65	-1176.20	-63.57	995.89	0	-575.20	2	-349.92	2	-273.67	2.35	-246.59
53	53	62.65	-1176.20	-63.57	995.89	0	-501.63	2	-377.99	2	-293.93	2.35	-279.32
53	54	64.10	-1176.20	-42.76	1072.99	0	-501.63	2	-377.99	2	-293.93	2.35	-279.32
54	54	64.10	-1176.20	-42.76	1072.99	0	-448.73	2	-398.15	2	-308.51	2.35	-302.85
54	55	65.55	-1176.20	-21.97	1119.92	0	-448.73	2	-398.15	2	-308.51	2.35	-302.85
55	55	65.55	-1176.20	-21.97	1119.92	0	-416.54	2	-410.40	2	-317.38	2.35	-317.18
55	56	67.00	-1176.20	-1.16	1136.70	0	-416.54	2	-410.40	2	-317.38	2.35	-317.18
56	56	67.00	-1176.20	-1.16	1136.70	0	-405.05	2	-414.73	2	-320.56	2.35	-322.30
56	57	68.45	-1176.20	19.64	1123.32	0	-405.05	2	-414.73	2	-320.56	2.35	-322.30
57	57	68.45	-1176.20	19.64	1123.32	0	-414.25	2	-411.15	2	-318.05	2.35	-318.23
57	58	69.90	-1176.20	40.43	1079.78	0	-414.25	2	-411.15	2	-318.05	2.35	-318.23
58	58	69.90	-1176.20	40.43	1079.78	0	-444.14	2	-399.66	2	-309.84	2.35	-304.96
58	59	71.35	-1176.20	61.23	1006.07	0	-444.14	2	-399.66	2	-309.84	2.35	-304.96
59	59	71.35	-1176.20	61.23	1006.07	0	-494.73	2	-380.25	2	-295.94	2.35	-282.48
59	60	72.80	-1176.20	82.03	902.20	0	-494.73	2	-380.25	2	-295.94	2.35	-282.48
60	60	72.80	-1176.55	112.49	902.37	0	-566.03	2	-352.93	2	-276.34	2.35	-250.81
60	61	74.25	-1176.71	133.30	723.80	0	-565.45	2	-353.26	2	-276.64	2.35	-251.23
61	61	74.25	-1176.71	133.30	723.80	0	-688.28	2	-305.04	2	-243.15	2.35	-197.12
61	62	75.70	-1176.85	154.10	515.05	0	-523.12	2	-400.56	2	-330.29	2.35	-316.81
62	62	75.70	-850.14	123.63	671.68	0	-663.07	2	-326.32	2	-273.98	2.35	-234.05
62	63	77.15	-850.14	171.51	447.34	0	-279.00	2	-340.98	2	-279.17	2.35	-287.83
63	63	77.15	-850.14	171.51	447.34	0	-428.89	2	-263.18	2	-218.16	2.35	-198.20
63	64	78.60	-850.28	196.12	180.80	0	-429.67	2	-260.37	2	-218.16	2.35	-199.11
64	64	78.60	-458.86	196.14	379.94	0	-608.12	2	-168.02	2	-145.51	2.35	-92.37
64	65	80.05	-458.86	220.75	77.70	0	-138.80	2	-190.72	2	-155.37	2.35	-162.11
65	65	80.05	-458.86	220.75	77.70	0	-340.66	2	-86.13	2	-73.12	2.35	-41.29
65	66	80.50	-458.86	228.38	-23.34	0	-340.66	2	-86.13	2	-73.12	2.35	-41.29
66	66	80.50	-546.59	228.38	469.84	0	-408.15	2	-51.16	2	-45.63	2.35	-0.90
66	67	81.50	-546.59	250.79	230.25	0	-139.71	2	-261.12	2	-188.36	2.35	-197.72
67	1067	81.50	-546.59	-272.64	230.25	0	-299.76	2	-178.12	2	-123.18	2.35	-101.97
67	68	82.50	-546.59	-250.22	491.70	0	-299.76	2	-178.12	2	-123.18	2.35	-101.97
68	68	82.50	-524.08	-250.22	-35.97	0	-125.11	2	-268.67	2	-194.32	2.35	-206.47
68	69	83.08	-524.08	-240.47	105.10	0	-472.59	2	-54.43	2	-49.62	2.35	2.45
69	69	83.08	-524.08	-240.47	105.10	0	-378.37	2	-103.23	2	-88.02	2.35	-53.94
69	70	84.65	-524.08	-213.74	462.81	0	-378.37	2	-103.23	2	-88.02	2.35	-53.94
70	70	84.65	-980.71	-213.73	230.49	0	-139.46	2	-226.99	2	-185.38	2.35	-196.95
70	71	86.23	-980.57	-187.02	546.09	0	-686.93	2	-200.53	2	-173.91	2.35	-115.63
71	71	86.23	-980.57	-187.02	546.09	0	-475.72	2	-309.83	2	-259.92	2.35	-241.98
71	72	87.80	-980.57	-136.07	787.59	0	-475.02	2	-312.34	2	-259.92	2.35	-241.17
72	72	87.80	-1437.72	-170.34	568.23	0	-313.50	2	-396.72	2	-325.47	2.35	-337.49
72	73	89.38	-1437.57	-147.74	819.18	0	-851.38	2	-375.97	2	-317.99	2.35	-261.93
73	73	89.38	-1437.57	-147.74	819.18	0	-683.15	2	-465.16	2	-385.73	2.35	-361.45
	74	90.95	-1437.40	-125.15	1034.57	0	-886.11	2	-353.86	2	-284.65	2.35	-221.26
74	74	90.95	-1437.04	-90.88	1034.37	0	-737.97	2	-411.94	2	-325.08	2.35	-286.56
74	75	92.53	-1437.04	-68.29	1159.72	0	-738.57	2	-411.60	2	-324.77	2.35	-286.13
75	75	92.53	-1437.04	-68.29	1159.72	0	-652.56	2	-444.46	2	-348.45	2.35	-324.37
75	76	94.10	-1437.04	-45.70	1249.50	0	-652.56	2	-444.46	2	-348.45	2.35	-324.37
76	76	94.10	-1437.04	-45.70	1249.50	0	-590.96	2	-467.98	2	-365.40	2.35	-351.77
76	77	95.68	-1437.04	-23.10	1303.69	0	-590.96	2	-467.98	2	-365.40	2.35	-351.77
						0	-553.78	2	-482.17	2	-375.65	2.35	-368.31

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PERM1.Tinf.MZ-
...Permanentes sin gradiente. Tinf
[1; 1)Pvigas + [.95; 1.05)fase1.ISO.To + [1; 1)Prelosas + [1; 1)HBCV + [.9; 1.1)fase4.ISO.To + [.9; 1.1)fase4.HIP.To + [1; 1)HBCP + [1; 1)HVOL + [.7; 1.3)CMBAL + [1; 1)CMRESTO + [1; 1)RCE.Esfuerzos + [1; 1)RPT.Esfuerzos + [1;
oef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1437.04	-23.10	1303.69	0	-553.78	2	-482.17	2	-375.65	2.35	-368.31
77	78	97.25	-1437.04	-0.51	1322.29	0	-541.03	2	-487.01	2	-379.16	2.35	-373.98
78	78	97.25	-1437.04	-0.51	1322.29	0	-541.03	2	-487.01	2	-379.16	2.35	-373.98
78	79	98.83	-1437.04	22.09	1305.31	0	-552.68	2	-482.53	2	-375.97	2.35	-368.81
79	79	98.83	-1437.04	22.09	1305.31	0	-552.68	2	-482.53	2	-375.97	2.35	-368.81
79	80	100.40	-1437.04	44.68	1252.72	0	-588.78	2	-468.70	2	-366.04	2.35	-352.77
80	80	100.40	-1437.04	44.68	1252.72	0	-588.78	2	-468.70	2	-366.04	2.35	-352.77
80	81	101.98	-1437.04	67.28	1164.59	0	-649.27	2	-445.54	2	-349.41	2.35	-325.89
81	81	101.98	-1437.04	67.28	1164.59	0	-649.27	2	-445.54	2	-349.41	2.35	-325.89
81	82	103.55	-1437.04	89.86	1040.85	0	-734.19	2	-413.04	2	-326.05	2.35	-288.14
82	82	103.55	-1437.39	124.13	1041.04	0	-733.59	2	-413.37	2	-326.36	2.35	-288.57
82	83	105.13	-1437.55	146.72	827.31	0	-880.61	2	-355.66	2	-286.25	2.35	-223.79
83	83	105.13	-1437.55	146.72	827.31	0	-677.77	2	-467.75	2	-388.02	2.35	-364.75
83	84	106.70	-1437.69	169.32	577.96	0	-844.94	2	-379.07	2	-320.74	2.35	-265.88
84	84	106.70	-980.55	135.05	797.32	0	-307.06	2	-399.81	2	-328.21	2.35	-341.43
84	85	108.28	-980.55	187.14	544.78	0	-475.88	2	-311.90	2	-259.61	2.35	-240.61
85	85	108.28	-980.55	187.14	544.78	0	-476.53	2	-309.52	2	-259.61	2.35	-241.40
85	86	109.85	-980.69	213.86	228.99	0	-687.85	2	-200.17	2	-173.55	2.35	-114.96
86	86	109.85	-524.08	213.88	461.31	0	-140.41	2	-226.64	2	-185.02	2.35	-196.28
86	87	111.43	-524.08	240.61	103.43	0	-379.44	2	-102.84	2	-87.62	2.35	-53.20
87	87	111.43	-524.08	240.61	103.43	0	-379.44	2	-102.84	2	-87.62	2.35	-53.20
87	88	112.00	-524.08	250.36	-37.75	0	-473.73	2	-54.00	2	-49.20	2.35	3.24
88	88	112.00	-546.59	250.36	489.92	0	-126.25	2	-268.24	2	-193.89	2.35	-205.68
88	89	113.00	-546.59	272.79	228.36	0	-300.96	2	-177.67	2	-122.73	2.35	-101.13
89	1089	113.00	-546.59	-273.78	228.36	0	-300.96	2	-177.67	2	-122.73	2.35	-101.13
89	90	114.00	-546.59	-251.36	490.98	0	-125.55	2	-268.56	2	-194.19	2.35	-206.11
90	90	114.00	-524.08	-251.36	-36.69	0	-473.03	2	-54.32	2	-49.50	2.35	2.81
90	91	114.58	-524.08	-241.60	105.00	0	-378.40	2	-103.31	2	-88.07	2.35	-53.85
91	91	114.58	-524.08	-241.60	105.00	0	-378.40	2	-103.31	2	-88.07	2.35	-53.85
91	92	116.15	-524.08	-214.88	464.50	0	-138.32	2	-227.60	2	-185.92	2.35	-197.60
92	92	116.15	-980.68	-214.88	232.18	0	-685.73	2	-201.14	2	-174.46	2.35	-116.29
92	93	117.73	-980.54	-188.15	549.56	0	-473.37	2	-310.96	2	-260.97	2.35	-243.39
93	93	117.73	-980.54	-188.15	549.56	0	-472.71	2	-313.43	2	-260.95	2.35	-242.56
93	94	119.30	-980.54	-135.99	803.19	0	-303.18	2	-401.68	2	-329.87	2.35	-343.81
94	94	119.30	-1437.71	-170.25	583.84	0	-841.07	2	-380.95	2	-322.40	2.35	-268.27
94	95	120.88	-1437.56	-147.64	834.64	0	-672.93	2	-470.09	2	-390.09	2.35	-367.73
95	95	120.88	-1437.56	-147.64	834.64	0	-875.65	2	-357.29	2	-287.70	2.35	-226.07
95	96	122.45	-1437.41	-125.05	1049.87	0	-727.62	2	-415.34	2	-328.10	2.35	-291.32
96	96	122.45	-1437.04	-90.79	1049.68	0	-728.22	2	-415.00	2	-327.79	2.35	-290.89
96	97	124.03	-1437.04	-68.19	1174.88	0	-642.30	2	-447.82	2	-351.44	2.35	-329.09
97	97	124.03	-1437.04	-68.19	1174.88	0	-642.30	2	-447.82	2	-351.44	2.35	-329.09
97	98	125.60	-1437.04	-45.60	1264.50	0	-580.81	2	-471.31	2	-368.36	2.35	-356.43
98	98	125.60	-1437.04	-45.60	1264.50	0	-580.81	2	-471.31	2	-368.36	2.35	-356.43
98	99	127.18	-1437.04	-23.00	1318.52	0	-543.74	2	-485.46	2	-378.57	2.35	-372.92
99	99	127.18	-1437.04	-23.00	1318.52	0	-543.74	2	-485.46	2	-378.57	2.35	-372.92
99	100	128.75	-1437.04	-0.42	1336.98	0	-531.09	2	-490.28	2	-382.06	2.35	-378.55
100	100	128.75	-1437.04	-0.42	1336.98	0	-531.09	2	-490.28	2	-382.06	2.35	-378.55
100	101	130.33	-1437.04	22.17	1319.86	0	-542.84	2	-485.76	2	-378.83	2.35	-373.33
101	101	130.33	-1437.04	22.17	1319.86	0	-542.84	2	-485.76	2	-378.83	2.35	-373.33
101	102	131.90	-1437.04	44.77	1267.13	0	-579.03	2	-471.90	2	-368.88	2.35	-357.25
102	102	131.90	-1437.04	44.77	1267.13	0	-579.03	2	-471.90	2	-368.88	2.35	-357.25
102	103	133.48	-1437.04	67.36	1178.83	0	-639.63	2	-448.70	2	-352.21	2.35	-330.32
103	103	133.48	-1437.04	67.36	1178.83	0	-639.63	2	-448.70	2	-352.21	2.35	-330.32
103	104	135.05	-1437.04	89.96	1054.94	0	-724.65	2	-416.17	2	-328.82	2.35	-292.53
104	104	135.05	-1437.39	124.23	1055.14	0	-724.05	2	-416.50	2	-329.13	2.35	-292.96
104	105	136.63	-1437.54	146.83	841.23	0	-871.18	2	-358.74	2	-288.99	2.35	-228.11
105	105	136.63	-1437.54	146.83	841.23	0	-668.57	2	-472.19	2	-391.94	2.35	-370.40
105	106	138.20	-1437.71	169.42	591.73	0	-835.85	2	-383.47	2	-324.62	2.35	-271.48
106	106	138.20	-980.58	135.14	811.09	0	-297.98	2	-404.22	2	-332.10	2.35	-347.03
106	107	139.78	-980.58	186.01	573.14	0	-457.15	2	-320.98	2	-267.55	2.35	-252.16
107	107	139.78	-980.58	186.01	573.14	0	-458.01	2	-317.95	2	-267.54	2.35	-253.13
107	108	141.35	-980.72	212.72	259.13	0	-668.17	2	-209.13	2	-181.97	2.35	-127.43
108	108	141.35	-524.08	212.75	491.45	0	-120.67	2	-235.60	2	-193.45	2.35	-208.77
108	109	142.93	-524.08	239.48	135.33	0	-358.55	2	-112.31	2	-96.54	2.35	-66.41
109	109	142.93	-524.08	239.48	135.33	0	-358.55	2	-112.31	2	-96.54	2.35	-66.41
109	110	143.50	-524.08	249.23	-5.21	0	-452.42	2	-63.66	2	-58.29	2.35	-10.24
110	110	143.50	-546.59	249.23	522.46	0	-104.94	2	-277.90	2	-202.99	2.35	-219.16
110	111	144.50	-546.59	271.65	262.06	0	-278.90	2	-187.68	2	-132.14	2.35	-115.09
111	1111	144.50	-546.59	-209.84	262.06	0	-278.90	2	-187.68	2	-132.14	2.35	-115.09
111	112	145.50	-546.59	-187.42	460.72	0	-146.17	2	-256.60	2	-186.14	2.35	-194.46
112	112	145.50	-426.26	-187.42	-15.22	0	-375.10	2	-48.77	2	-44.39	2.35	-3.68
112	113	145.68	-426.26	-184.45	17.30	0	-353.37	2	-60.04	2	-53.23	2.35	-16.68
113	113	145.68	-426.26	-184.45	17.30	0	-353.37	2	-60.04	2	-53.23	2.35	-16.68
113	114	146.85	-426.26	-164.52	222.32	0	-216.41	2	-131.09	2	-108.97	2.35	-98.62
114	114	146.85	-785.23	-164.49	39.78	0	-646.99	2	-110.21	2	-99.85	2.35	-34.55
114	115	148.03	-785.09	-144.54	221.37	0	-525.27	2	-173.26	2	-149.33	2.35	-107.31

CÁLCULO TENSIONAL

Hipótesis de cálculo:
PERM1.Tinf.MZ-
manentes sin gradiente. Tinf

[1; 1]Pvigas + [05; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [1; 1]RCE.Esfuerzos + [1; 1]RPT.Esfuerzos + [1

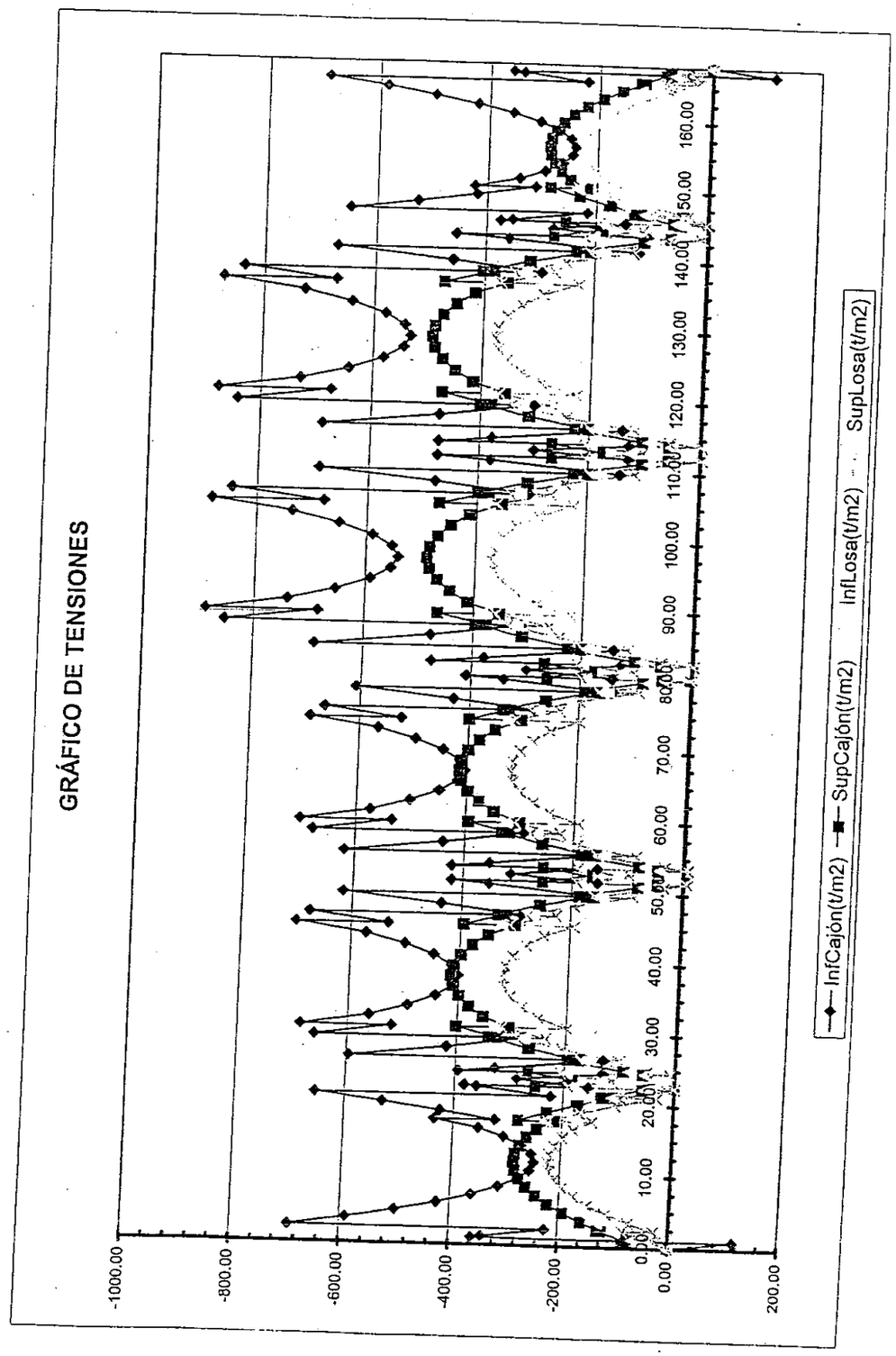
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-785.09	-144.54	221.37	0	-524.06	2	-176.77	2	-149.44	2.35	-106.37
115	116	149.20	-785.09	-124.60	379.52	0	-418.46	2	-231.40	2	-192.42	2.35	-169.64
116	116	149.20	-785.87	-149.71	379.70	0	-418.02	2	-232.02	2	-192.99	2.35	-170.34
116	117	150.38	-785.40	-107.12	535.95	0	-313.31	2	-286.85	2	-235.07	2.35	-232.34
117	117	150.38	-785.40	-107.12	535.95	0	-422.55	2	-218.65	2	-172.51	2.35	-147.54
117	118	151.55	-785.26	-90.26	652.16	0	-342.60	2	-250.18	2	-194.20	2.35	-182.71
118	118	151.55	-784.92	-65.18	652.01	0	-343.19	2	-249.86	2	-193.90	2.35	-182.30
118	119	152.73	-784.92	-48.32	718.68	0	-297.39	2	-267.55	2	-206.41	2.35	-202.63
119	119	152.73	-784.92	-48.32	718.68	0	-297.39	2	-267.55	2	-206.41	2.35	-202.63
119	120	153.90	-784.92	-31.46	765.56	0	-265.17	2	-280.05	2	-215.18	2.35	-216.92
120	120	153.90	-784.92	-31.46	765.56	0	-265.17	2	-280.05	2	-215.18	2.35	-216.92
120	121	155.08	-784.92	-14.61	792.62	0	-246.55	2	-287.35	2	-220.20	2.35	-225.16
121	121	155.08	-784.92	-14.61	792.62	0	-246.55	2	-287.35	2	-220.20	2.35	-225.16
121	122	156.25	-784.92	2.25	799.89	0	-241.51	2	-289.46	2	-221.49	2.35	-227.37
122	122	156.25	-784.92	2.25	799.89	0	-241.51	2	-289.46	2	-221.49	2.35	-227.37
122	123	157.43	-784.92	19.10	787.34	0	-250.08	2	-286.36	2	-219.03	2.35	-223.53
123	123	157.43	-784.92	19.10	787.34	0	-250.08	2	-286.36	2	-219.03	2.35	-223.53
123	124	158.60	-784.92	35.95	755.02	0	-272.21	2	-278.08	2	-212.84	2.35	-213.66
124	124	158.60	-784.92	35.95	755.02	0	-272.21	2	-278.08	2	-212.84	2.35	-213.66
124	125	159.78	-784.92	52.81	702.86	0	-307.95	2	-264.59	2	-202.91	2.35	-197.74
125	125	159.78	-784.92	52.81	702.86	0	-307.95	2	-264.59	2	-202.91	2.35	-197.74
125	126	160.95	-784.92	69.66	630.88	0	-357.30	2	-245.90	2	-189.23	2.35	-175.77
126	126	160.95	-784.92	69.66	630.88	0	-357.30	2	-245.90	2	-189.23	2.35	-175.77
126	127	162.13	-784.92	86.52	539.13	0	-420.21	2	-222.03	2	-171.82	2.35	-147.77
127	127	162.13	-784.92	86.52	539.13	0	-420.21	2	-222.03	2	-171.82	2.35	-147.77
127	128	163.30	-784.92	103.37	427.56	0	-496.73	2	-192.95	2	-150.66	2.35	-113.72
128	128	163.30	-784.92	103.37	427.56	0	-496.73	2	-192.95	2	-150.66	2.35	-113.72
128	129	164.48	-784.92	120.23	296.19	0	-586.83	2	-158.68	2	-125.77	2.35	-73.63
129	129	164.48	-784.92	120.23	296.19	0	-586.83	2	-158.68	2	-125.77	2.35	-73.63
129	130	165.65	-784.92	137.09	145.02	0	-690.51	2	-119.22	2	-97.14	2.35	-27.50
130	130	165.65	-426.26	137.09	300.39	0	-222.22	2	-125.82	2	-94.35	2.35	-81.98
130	131	166.83	-426.26	153.95	129.40	0	-339.50	2	-81.16	2	-61.98	2.35	-29.81
131	131	166.83	-426.26	153.95	129.40	0	-339.50	2	-81.16	2	-61.98	2.35	-29.81
131	132	167.00	-426.26	156.46	102.21	0	-358.15	2	-74.05	2	-56.83	2.35	-21.51
132	132	167.00	0.00	156.46	166.96	0	114.56	2	-43.77	2	-31.59	2.35	-50.92
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

04/09/01

Programa DINTEL IDEAM S.A.
PERM1.Tinf.MZ-

GRÁFICO DE TENSIONES



combi_ti.xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.Tinf.MZ+

Cuasi-Permanentes con gradiente. Tinf

[1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT.f

Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-182.08	193.92	0	132.81	2	-49.78	2	-36.81	2.35	-59.42
2	2	1.00	-376.11	-182.08	146.36	0	-284.28	2	-76.50	2	-59.06	2.35	-33.52
2	3	1.18	-376.11	-179.11	177.97	0	-262.64	2	-84.59	2	-65.07	2.35	-43.21
3	3	1.18	-376.11	-179.11	177.97	0	-262.64	2	-84.59	2	-65.07	2.35	-43.21
3	4	2.35	-376.11	-159.17	376.70	0	-126.57	2	-135.44	2	-102.81	2.35	-104.14
4	4	2.35	-692.58	-159.17	247.67	0	-539.81	2	-129.39	2	-105.28	2.35	-56.16
4	5	3.53	-692.58	-139.24	422.99	0	-419.77	2	-174.24	2	-138.59	2.35	-109.93
5	5	3.53	-692.58	-139.24	422.99	0	-419.77	2	-174.24	2	-138.59	2.35	-109.93
5	6	4.70	-692.58	-119.29	574.88	0	-315.78	2	-213.09	2	-167.45	2.35	-156.51
6	6	4.70	-692.58	-119.29	574.88	0	-315.78	2	-213.09	2	-167.45	2.35	-156.51
6	7	5.88	-692.58	-99.35	703.33	0	-227.84	2	-245.93	2	-191.86	2.35	-195.93
7	7	5.88	-692.58	-99.35	703.33	0	-227.84	2	-245.93	2	-191.86	2.35	-195.93
7	8	7.05	-692.58	-79.42	808.37	0	-155.93	2	-272.77	2	-211.84	2.35	-228.18
8	8	7.05	-692.58	-79.42	808.37	0	-155.93	2	-272.77	2	-211.84	2.35	-228.18
8	9	8.23	-692.58	-59.49	889.99	0	-100.06	2	-293.60	2	-227.38	2.35	-253.25
9	9	8.23	-692.58	-59.49	889.99	0	-100.06	2	-293.60	2	-227.38	2.35	-253.25
9	10	9.40	-692.58	-39.54	948.19	0	-60.23	2	-308.44	2	-238.47	2.35	-271.16
10	10	9.40	-692.58	-39.54	948.19	0	-60.23	2	-308.44	2	-238.47	2.35	-271.16
10	11	10.58	-692.58	-19.62	982.93	0	-36.46	2	-317.26	2	-245.12	2.35	-281.88
11	11	10.58	-692.58	-19.62	982.93	0	-36.46	2	-317.26	2	-245.12	2.35	-281.88
11	12	11.75	-692.58	0.33	994.26	0	-28.73	2	-320.08	2	-247.32	2.35	-285.44
12	12	11.75	-692.58	0.33	994.26	0	-28.73	2	-320.08	2	-247.32	2.35	-285.44
12	13	12.93	-692.58	20.27	982.17	0	-37.03	2	-316.90	2	-245.09	2.35	-281.83
13	13	12.93	-692.58	20.27	982.17	0	-37.03	2	-316.90	2	-245.09	2.35	-281.83
13	14	14.10	-692.58	40.21	946.63	0	-61.39	2	-307.71	2	-238.41	2.35	-271.04
14	14	14.10	-692.58	40.21	946.63	0	-61.39	2	-307.71	2	-238.41	2.35	-271.04
14	15	15.28	-692.58	60.14	887.69	0	-101.77	2	-292.52	2	-227.29	2.35	-253.08
15	15	15.28	-692.58	60.14	887.69	0	-101.77	2	-292.52	2	-227.29	2.35	-253.08
15	16	16.45	-692.58	80.08	805.31	0	-158.21	2	-271.33	2	-211.73	2.35	-227.95
16	16	16.45	-693.12	102.99	805.46	0	-157.71	2	-271.71	2	-212.08	2.35	-228.42
16	17	17.63	-693.31	122.94	672.51	0	-248.96	2	-236.66	2	-187.12	2.35	-188.10
17	17	17.63	-693.31	122.94	672.51	0	-152.57	2	-315.29	2	-258.78	2.35	-282.07
17	18	18.80	-693.20	117.60	527.39	0	-249.68	2	-263.96	2	-219.57	2.35	-224.48
18	18	18.80	-692.61	94.69	527.22	0	-250.16	2	-263.42	2	-219.07	2.35	-223.85
18	19	19.98	-692.61	111.55	406.05	0	-331.32	2	-220.62	2	-186.35	2.35	-175.73
19	19	19.98	-692.61	111.55	406.05	0	-332.32	2	-217.72	2	-186.26	2.35	-176.51
19	20	21.15	-692.75	128.39	265.06	0	-427.21	2	-167.69	2	-148.06	2.35	-120.37
20	20	21.15	-376.11	128.42	418.90	0	-48.09	2	-185.97	2	-155.76	2.35	-176.34
20	21	22.33	-376.11	145.28	258.09	0	-155.82	2	-129.10	2	-112.30	2.35	-112.49
21	21	22.33	-376.11	145.28	258.09	0	-155.82	2	-129.10	2	-112.30	2.35	-112.49
21	22	22.50	-376.11	147.78	232.44	0	-173.00	2	-120.04	2	-105.37	2.35	-102.30
22	22	22.50	-692.34	147.78	765.78	0	-53.51	2	-388.07	2	-291.18	2.35	-329.77
22	23	23.50	-692.34	167.57	608.10	0	-159.16	2	-332.29	2	-248.57	2.35	-267.15
3	1023	23.50	-692.34	-211.12	608.10	0	-159.16	2	-332.29	2	-248.57	2.35	-267.15
3	24	24.50	-692.34	-191.34	809.35	0	-24.44	2	-403.05	2	-303.09	2.35	-347.28
24	24	24.50	-404.88	-191.34	261.46	0	-178.72	2	-133.14	2	-116.45	2.35	-114.54
24	25	24.95	-404.88	-184.89	346.09	0	-122.08	2	-162.86	2	-139.38	2.35	-148.24
25	25	24.95	-404.88	-184.89	346.09	0	-122.08	2	-162.86	2	-139.38	2.35	-148.24
25	26	26.40	-404.88	-164.09	599.08	0	47.24	2	-251.72	2	-207.93	2.35	-248.99
26	26	26.40	-750.26	-164.07	431.24	0	-366.06	2	-231.88	2	-199.63	2.35	-188.09
26	27	27.85	-750.13	-143.27	654.07	0	-216.50	2	-310.28	2	-260.13	2.35	-277.00
27	27	27.85	-750.13	-143.27	654.07	0	-215.75	2	-312.93	2	-260.14	2.35	-276.16
27	28	29.30	-750.13	-145.28	864.19	0	-75.26	2	-386.18	2	-317.19	2.35	-359.98
28	28	29.30	-1038.70	-173.09	732.55	0	-413.46	2	-373.57	2	-313.07	2.35	-313.21
28	29	30.75	-1038.51	-148.49	966.04	0	-257.20	2	-455.48	2	-376.29	2.35	-406.06
29	29	30.75	-1038.51	-148.49	966.04	0	-402.52	2	-340.79	2	-272.35	2.35	-269.11
29	30	32.20	-1038.33	-123.88	1163.83	0	-266.74	2	-393.00	2	-309.60	2.35	-329.25
30	30	32.20	-1037.82	-96.06	1163.67	0	-267.25	2	-392.62	2	-309.25	2.35	-328.79
30	31	33.65	-1037.82	-71.45	1285.12	0	-184.05	2	-423.86	2	-332.26	2.35	-365.93
31	31	33.65	-1037.82	-71.45	1285.12	0	-184.05	2	-423.86	2	-332.26	2.35	-365.93
31	32	35.10	-1037.82	-46.86	1370.90	0	-125.28	2	-445.96	2	-348.51	2.35	-392.15
32	32	35.10	-1037.82	-46.86	1370.90	0	-125.28	2	-445.96	2	-348.51	2.35	-392.15
32	33	36.55	-1037.82	-22.25	1420.99	0	-90.95	2	-458.92	2	-357.99	2.35	-407.45
33	33	36.55	-1037.82	-22.25	1420.99	0	-90.95	2	-458.92	2	-357.99	2.35	-407.45
33	34	38.00	-1037.82	2.35	1435.40	0	-81.05	2	-462.73	2	-360.70	2.35	-411.82
34	34	38.00	-1037.82	2.35	1435.40	0	-81.05	2	-462.73	2	-360.70	2.35	-411.82
34	35	39.45	-1037.82	26.97	1414.16	0	-95.57	2	-457.40	2	-356.66	2.35	-405.28
35	35	39.45	-1037.82	26.97	1414.16	0	-95.57	2	-457.40	2	-356.66	2.35	-405.28
-	36	40.90	-1037.82	51.57	1357.22	0	-134.53	2	-442.92	2	-345.84	2.35	-387.81
-	36	40.90	-1037.82	51.57	1357.22	0	-134.53	2	-442.92	2	-345.84	2.35	-387.81
36	37	42.35	-1037.82	76.16	1264.63	0	-197.91	2	-419.31	2	-328.26	2.35	-359.43
37	37	42.35	-1037.82	76.16	1264.63	0	-197.91	2	-419.31	2	-328.26	2.35	-359.43
37	38	43.80	-1037.82	100.77	1136.33	0	-285.74	2	-386.54	2	-303.91	2.35	-320.11
38	38	43.80	-1038.38	128.59	1136.50	0	-285.25	2	-386.94	2	-304.28	2.35	-320.59
38	39	45.25	-1038.56	153.19	931.89	0	-425.64	2	-333.22	2	-265.69	2.35	-258.28

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.Tinf.MZ+

Cuasi-Permanentes con gradiente. Tinf

[1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT.f

Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1038.56	153.19	931.89	0	-279.78	2	-444.59	2	-366.74	2.35	-391.97
39	40	46.70	-1038.76	177.80	691.58	0	-440.55	2	-360.51	2	-301.62	2.35	-296.30
40	40	46.70	-750.11	149.98	823.21	0	-102.33	2	-373.09	2	-305.72	2.35	-343.05
40	41	48.15	-750.11	147.94	606.62	0	-247.09	2	-297.77	2	-246.85	2.35	-256.54
41	41	48.15	-750.11	147.94	606.62	0	-247.67	2	-295.57	2	-246.86	2.35	-257.29
41	42	49.60	-750.26	168.75	377.03	0	-401.68	2	-215.08	2	-184.48	2.35	-165.56
42	42	49.60	-404.88	168.77	544.87	0	11.56	2	-234.90	2	-192.76	2.35	-226.42
42	43	51.05	-404.88	189.56	285.09	0	-162.24	2	-143.93	2	-122.30	2.35	-122.85
43	43	51.05	-404.88	189.56	285.09	0	-162.24	2	-143.93	2	-122.30	2.35	-122.85
43	44	51.50	-404.88	196.02	198.35	0	-220.27	2	-113.55	2	-98.78	2.35	-88.27
44	44	51.50	-692.34	196.02	746.24	0	-65.98	2	-383.45	2	-285.42	2.35	-321.01
44	45	52.50	-692.34	215.80	540.32	0	-203.77	2	-311.25	2	-229.59	2.35	-238.94
45	1045	52.50	-692.34	-214.74	540.32	0	-203.77	2	-311.25	2	-229.59	2.35	-238.94
45	46	53.50	-692.34	-194.95	745.16	0	-66.69	2	-383.12	2	-285.12	2.35	-320.55
46	46	53.50	-404.88	-194.95	197.26	0	-220.98	2	-113.22	2	-98.48	2.35	-87.81
46	47	53.95	-404.88	-188.49	283.54	0	-163.25	2	-143.46	2	-121.87	2.35	-122.19
47	47	53.95	-404.88	-188.49	283.54	0	-163.25	2	-143.46	2	-121.87	2.35	-122.19
47	48	55.40	-404.88	-167.69	541.78	0	9.53	2	-233.95	2	-191.90	2.35	-225.11
48	48	55.40	-750.26	-167.67	373.94	0	-403.73	2	-214.13	2	-183.61	2.35	-164.23
48	49	56.85	-750.12	-146.88	602.00	0	-250.73	2	-294.15	2	-245.57	2.35	-255.31
49	49	56.85	-750.12	-146.88	602.00	0	-250.15	2	-296.29	2	-245.57	2.35	-254.60
49	50	58.30	-750.12	-148.44	814.28	0	-408.28	2	-370.24	2	-303.24	2.35	-339.34
50	50	58.30	-1038.74	-176.25	682.66	0	-446.44	2	-357.65	2	-299.13	2.35	-292.58
50	51	59.75	-1038.56	-151.66	920.73	0	-287.15	2	-441.02	2	-363.64	2.35	-387.33
51	51	59.75	-1038.56	-151.66	920.73	0	-433.19	2	-330.73	2	-263.52	2.35	-254.71
51	52	61.20	-1038.36	-127.05	1123.14	0	-294.28	2	-383.95	2	-301.67	2.35	-316.30
52	52	61.20	-1037.82	-99.23	1122.97	0	-294.78	2	-383.57	2	-301.32	2.35	-315.83
52	53	62.65	-1037.82	-74.63	1249.00	0	-208.49	2	-415.83	2	-325.23	2.35	-354.42
53	53	62.65	-1037.82	-74.63	1249.00	0	-208.49	2	-415.83	2	-325.23	2.35	-354.42
53	54	64.10	-1037.82	-50.02	1339.39	0	-146.60	2	-438.95	2	-342.38	2.35	-382.10
54	54	64.10	-1037.82	-50.02	1339.39	0	-146.60	2	-438.95	2	-342.38	2.35	-382.10
54	55	65.55	-1037.82	-25.42	1394.08	0	-109.16	2	-452.93	2	-352.76	2.35	-398.86
55	55	65.55	-1037.82	-25.42	1394.08	0	-109.16	2	-452.93	2	-352.76	2.35	-398.86
55	56	67.00	-1037.82	-0.81	1413.11	0	-96.14	2	-457.77	2	-356.38	2.35	-404.69
56	56	67.00	-1037.82	-0.81	1413.11	0	-96.14	2	-457.77	2	-356.38	2.35	-404.69
56	57	68.45	-1037.82	23.79	1396.46	0	-107.55	2	-453.46	2	-353.23	2.35	-399.60
57	57	68.45	-1037.82	23.79	1396.46	0	-107.55	2	-453.46	2	-353.23	2.35	-399.60
57	58	69.90	-1037.82	48.38	1344.14	0	-143.39	2	-440.01	2	-343.32	2.35	-383.59
58	58	69.90	-1037.82	48.38	1344.14	0	-143.39	2	-440.01	2	-343.32	2.35	-383.59
58	59	71.35	-1037.82	72.99	1256.14	0	-203.66	2	-417.41	2	-326.64	2.35	-356.66
59	59	71.35	-1037.82	72.99	1256.14	0	-203.66	2	-417.41	2	-326.64	2.35	-356.66
59	60	72.80	-1037.82	97.59	1132.46	0	-288.37	2	-385.67	2	-303.20	2.35	-318.80
60	60	72.80	-1038.35	125.40	1132.61	0	-287.87	2	-386.05	2	-303.54	2.35	-319.26
60	61	74.25	-1038.55	150.02	932.58	0	-425.17	2	-333.36	2	-265.86	2.35	-258.41
61	61	74.25	-1038.55	150.02	932.58	0	-279.32	2	-444.80	2	-366.99	2.35	-392.16
61	62	75.70	-1038.73	174.62	696.87	0	-437.04	2	-362.18	2	-303.15	2.35	-298.38
62	62	75.70	-750.12	146.80	828.51	0	-268.83	2	-374.77	2	-307.26	2.35	-345.14
62	63	77.15	-750.12	144.33	627.80	0	-233.09	2	-304.53	2	-252.82	2.35	-265.13
63	63	77.15	-750.12	144.33	627.80	0	-233.72	2	-302.28	2	-252.82	2.35	-265.86
63	64	78.60	-750.26	165.13	403.43	0	-384.30	2	-223.42	2	-191.89	2.35	-176.29
64	64	78.60	-404.88	165.15	571.26	0	-128.99	2	-243.25	2	-200.19	2.35	-237.18
64	65	80.05	-404.88	185.96	316.72	0	-141.36	2	-153.91	2	-131.20	2.35	-135.77
65	65	80.05	-404.88	185.96	316.72	0	-141.36	2	-153.91	2	-131.20	2.35	-135.77
65	66	80.50	-404.88	192.41	231.60	0	-198.33	2	-124.04	2	-108.13	2.35	-101.86
66	66	80.50	-692.34	192.41	779.49	0	-44.04	2	-393.94	2	-294.78	2.35	-334.61
66	67	81.50	-692.34	212.20	577.19	0	-179.44	2	-322.87	2	-239.96	2.35	-254.03
67	1067	81.50	-692.34	-231.64	577.19	0	-179.44	2	-322.87	2	-239.96	2.35	-254.03
67	68	82.50	-692.34	-211.84	798.94	0	-31.04	2	-400.72	2	-300.07	2.35	-342.37
68	68	82.50	-462.42	-211.84	221.93	0	-254.91	2	-127.07	2	-111.76	2.35	-99.06
68	69	83.08	-462.42	-203.59	341.36	0	-175.00	2	-168.95	2	-144.14	2.35	-146.65
69	69	83.08	-462.42	-203.59	341.36	0	-175.00	2	-168.95	2	-144.14	2.35	-146.65
69	70	84.65	-462.42	-181.00	644.24	0	27.67	2	-275.16	2	-226.25	2.35	-267.33
70	70	84.65	-865.35	-180.99	448.43	0	-454.41	2	-252.05	2	-216.60	2.35	-196.33
70	71	86.23	-865.21	-158.40	715.73	0	-275.14	2	-345.89	2	-289.19	2.35	-303.02
71	71	86.23	-865.21	-158.40	715.73	0	-274.59	2	-347.86	2	-289.19	2.35	-302.38
71	72	87.80	-865.21	-160.03	979.42	0	-98.41	2	-439.33	2	-360.91	2.35	-407.72
72	72	87.80	-1268.90	-191.31	795.06	0	-572.04	2	-421.45	2	-354.92	2.35	-341.97
72	73	89.38	-1268.71	-164.58	1075.74	0	-384.21	2	-519.86	2	-430.97	2.35	-453.65
73	73	89.38	-1268.71	-164.58	1075.74	0	-563.57	2	-389.01	2	-312.68	2.35	-296.19
73	74	90.95	-1268.50	-137.86	1314.36	0	-399.77	2	-451.89	2	-357.65	2.35	-368.76
74	74	90.95	-1267.98	-106.57	1314.17	0	-400.30	2	-451.51	2	-357.30	2.35	-368.31
74	75	92.53	-1267.98	-79.85	1460.98	0	-299.76	2	-489.15	2	-385.14	2.35	-413.24
75	75	92.53	-1267.98	-79.85	1460.98	0	-299.76	2	-489.15	2	-385.14	2.35	-413.24
75	76	94.10	-1267.98	-53.12	1565.70	0	-228.05	2	-516.00	2	-405.00	2.35	-445.29
76	76	94.10	-1267.98	-53.12	1565.70	0	-228.05	2	-516.00	2	-405.00	2.35	-445.29
76	77	95.68	-1267.98	-26.40	1628.33	0	-185.15	2	-532.07	2	-416.88	2.35	-464.46

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.Tinf.MZ+
Cuasi-Permanentes con gradiente. Tinf

(1; 1)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1)Prelosas + [1; 1)HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1)HBCP + [1; 1)HVOL + [.7; 1.3)CMBAL + [1; 1)CMRESTO + [0; .5)GRAD + [1; 1)RCE.Esfuerzos + [1; 1)RPT.
Coef. exc:

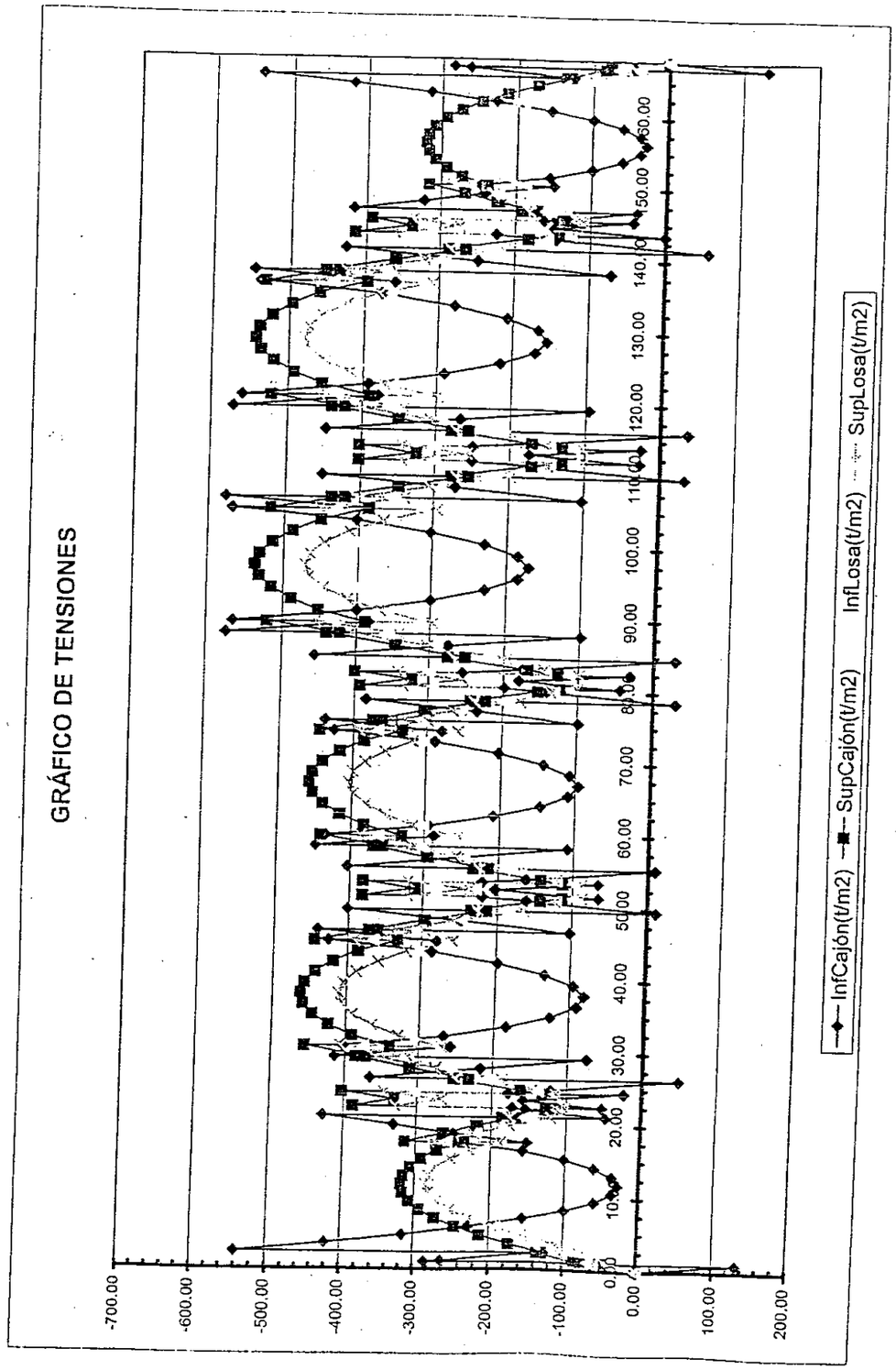
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1267.98	-26.40	1628.33	0	-185.15	2	-532.07	2	-416.88	2.35	-464.46
77	78	97.25	-1267.98	0.33	1648.86	0	-171.09	2	-537.35	2	-420.77	2.35	-470.73
78	78	97.25	-1267.98	0.33	1648.86	0	-171.09	2	-537.35	2	-420.77	2.35	-470.73
78	79	98.83	-1267.98	27.06	1627.31	0	-185.84	2	-531.84	2	-416.69	2.35	-464.12
79	79	98.83	-1267.98	27.06	1627.31	0	-185.84	2	-531.84	2	-416.69	2.35	-464.12
79	80	100.40	-1267.98	53.78	1563.63	0	-229.45	2	-515.54	2	-404.61	2.35	-444.62
80	80	100.40	-1267.98	53.78	1563.63	0	-229.45	2	-515.54	2	-404.61	2.35	-444.62
80	81	101.98	-1267.98	80.51	1457.91	0	-301.84	2	-488.46	2	-384.57	2.35	-412.24
81	81	101.98	-1267.98	80.51	1457.91	0	-301.84	2	-488.46	2	-384.57	2.35	-412.24
81	82	103.55	-1267.98	107.22	1310.08	0	-403.07	2	-450.58	2	-356.53	2.35	-366.97
82	82	103.55	-1268.50	138.52	1310.25	0	-402.56	2	-450.97	2	-356.89	2.35	-367.44
82	83	105.13	-1268.70	165.23	1070.65	0	-567.02	2	-387.86	2	-311.73	2.35	-294.52
83	83	105.13	-1268.70	165.23	1070.65	0	-387.58	2	-518.22	2	-429.60	2.35	-451.50
83	84	106.70	-1268.88	191.97	788.92	0	-576.09	2	-419.47	2	-353.26	2.35	-339.38
84	84	106.70	-865.19	160.67	973.28	0	-102.48	2	-437.36	2	-359.25	2.35	-405.13
84	85	108.28	-865.19	157.91	721.21	0	-270.96	2	-349.60	2	-290.78	2.35	-304.50
85	85	108.28	-865.19	157.91	721.21	0	-271.48	2	-347.70	2	-290.78	2.35	-305.12
85	86	109.85	-865.33	180.50	454.71	0	-450.22	2	-254.13	2	-218.42	2.35	-198.74
86	86	109.85	-462.42	180.52	650.52	0	-31.85	2	-277.24	2	-228.08	2.35	-269.74
87	87	111.43	-462.42	203.12	348.42	0	-170.30	2	-171.29	2	-146.19	2.35	-149.35
87	87	111.43	-462.42	203.12	348.42	0	-170.30	2	-171.29	2	-146.19	2.35	-149.35
87	88	112.00	-462.42	211.36	229.24	0	-250.05	2	-129.49	2	-113.88	2.35	-101.86
88	88	112.00	-692.34	211.36	806.25	0	-26.18	2	-403.14	2	-302.19	2.35	-345.17
88	89	113.00	-692.34	231.16	585.01	0	-174.25	2	-325.46	2	-242.23	2.35	-257.03
89	1089	113.00	-692.34	-232.67	585.01	0	-174.25	2	-325.46	2	-242.23	2.35	-257.03
89	90	114.00	-692.34	-212.87	807.82	0	-25.15	2	-403.62	2	-302.63	2.35	-345.82
90	90	114.00	-462.42	-212.87	230.81	0	-249.02	2	-129.98	2	-114.32	2.35	-102.51
90	91	114.58	-462.42	-204.62	350.81	0	-168.73	2	-172.03	2	-146.85	2.35	-150.35
91	91	114.58	-462.42	-204.62	350.81	0	-168.73	2	-172.03	2	-146.85	2.35	-150.35
91	92	116.15	-462.42	-182.03	655.32	0	25.01	2	-278.73	2	-229.42	2.35	-271.74
92	92	116.15	-865.34	-182.03	459.51	0	-447.05	2	-255.63	2	-219.78	2.35	-200.75
92	93	117.73	-865.20	-159.43	728.42	0	-266.72	2	-349.95	2	-292.81	2.35	-308.14
93	93	117.73	-865.20	-159.43	728.42	0	-266.20	2	-351.91	2	-292.80	2.35	-307.48
93	94	119.30	-865.20	-162.28	983.36	0	-95.80	2	-440.58	2	-362.08	2.35	-409.29
94	94	119.30	-1268.90	-193.56	799.01	0	-569.43	2	-422.70	2	-356.09	2.35	-343.55
94	95	120.88	-1268.71	-166.82	1083.24	0	-379.26	2	-522.25	2	-433.12	2.35	-456.71
95	95	120.88	-1268.71	-166.82	1083.24	0	-558.50	2	-390.66	2	-314.19	2.35	-298.52
95	96	122.45	-1268.53	-140.10	1325.39	0	-392.31	2	-454.34	2	-359.85	2.35	-372.25
96	96	122.45	-1267.98	-108.82	1325.22	0	-392.83	2	-453.95	2	-359.49	2.35	-371.78
96	97	124.03	-1267.98	-82.09	1475.58	0	-289.89	2	-492.39	2	-388.01	2.35	-417.85
97	97	124.03	-1267.98	-82.09	1475.58	0	-289.89	2	-492.39	2	-388.01	2.35	-417.85
97	98	125.60	-1267.98	-55.37	1583.83	0	-215.78	2	-520.03	2	-408.55	2.35	-451.03
98	98	125.60	-1267.98	-55.37	1583.83	0	-215.78	2	-520.03	2	-408.55	2.35	-451.03
98	99	127.18	-1267.98	-28.64	1650.00	0	-170.49	2	-536.89	2	-421.11	2.35	-471.32
99	99	127.18	-1267.98	-28.64	1650.00	0	-170.49	2	-536.89	2	-421.11	2.35	-471.32
100	100	128.75	-1267.98	-1.93	1674.08	0	-154.02	2	-542.96	2	-425.69	2.35	-478.73
100	100	128.75	-1267.98	-1.93	1674.08	0	-154.02	2	-542.96	2	-425.69	2.35	-478.73
100	101	130.33	-1267.98	24.80	1656.08	0	-166.37	2	-538.24	2	-422.29	2.35	-473.26
101	101	130.33	-1267.98	24.80	1656.08	0	-166.37	2	-538.24	2	-422.29	2.35	-473.26
101	102	131.90	-1267.98	51.53	1595.97	0	-207.56	2	-522.74	2	-410.91	2.35	-454.90
102	102	131.90	-1267.98	51.53	1595.97	0	-207.56	2	-522.74	2	-410.91	2.35	-454.90
102	103	133.48	-1267.98	78.25	1493.78	0	-277.57	2	-496.44	2	-391.54	2.35	-423.65
103	103	133.48	-1267.98	78.25	1493.78	0	-277.57	2	-496.44	2	-391.54	2.35	-423.65
103	104	135.05	-1267.98	104.98	1349.49	0	-376.40	2	-459.36	2	-364.19	2.35	-379.51
104	104	135.05	-1268.48	136.27	1349.67	0	-375.87	2	-459.74	2	-364.54	2.35	-379.98
104	105	136.63	-1268.67	163.00	1113.58	0	-537.95	2	-397.41	2	-320.05	2.35	-308.18
105	105	136.63	-1268.67	163.00	1113.58	0	-359.20	2	-531.94	2	-441.54	2.35	-469.27
105	106	138.20	-1268.88	189.72	835.40	0	-545.38	2	-434.33	2	-366.20	2.35	-358.62
106	106	138.20	-865.20	158.43	1019.76	0	-71.75	2	-452.22	2	-372.18	2.35	-424.38
106	107	139.78	-865.20	156.88	756.52	0	-247.64	2	-360.89	2	-300.60	2.35	-319.23
107	107	139.78	-865.20	156.88	756.52	0	-248.31	2	-358.52	2	-300.59	2.35	-319.99
107	108	141.35	-865.34	179.47	491.64	0	-426.00	2	-265.43	2	-228.68	2.35	-214.30
108	108	141.35	-462.42	179.50	687.44	0	56.11	2	-288.56	2	-238.34	2.35	-285.32
108	109	142.93	-462.42	202.09	386.96	0	-144.99	2	-183.09	2	-156.89	2.35	-165.63
109	109	142.93	-462.42	202.09	386.96	0	-144.99	2	-183.09	2	-156.89	2.35	-165.63
109	110	143.50	-462.42	210.34	268.36	0	-224.36	2	-141.46	2	-124.75	2.35	-118.39
110	110	143.50	-692.34	210.34	845.37	0	-0.48	2	-415.11	2	-313.06	2.35	-361.69
110	111	144.50	-692.34	230.13	625.18	0	-147.86	2	-337.75	2	-253.39	2.35	-274.01
111	1111	144.50	-692.34	-166.85	625.18	0	-147.86	2	-337.75	2	-253.39	2.35	-274.01
111	112	145.50	-692.34	-147.07	782.16	0	-42.69	2	-393.31	2	-295.80	2.35	-336.34
112	112	145.50	-376.11	-147.07	248.82	0	-162.18	2	-125.27	2	-109.99	2.35	-108.87
112	113	145.68	-376.11	-144.56	274.32	0	-145.09	2	-134.29	2	-116.88	2.35	-119.00
113	113	145.68	-376.11	-144.56	274.32	0	-145.09	2	-134.29	2	-116.88	2.35	-119.00
113	114	146.85	-376.11	-127.71	434.27	0	-37.93	2	-190.88	2	-160.10	2.35	-182.50
114	114	146.85	-692.75	-127.68	280.43	0	-417.04	2	-172.61	2	-152.39	2.35	-126.54
114	115	148.03	-692.61	-110.83	420.57	0	-322.72	2	-222.36	2	-190.36	2.35	-182.34

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.Tinf.MZ+
Cuasi-Permanentes con gradiente. Tinf

1)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1)Prelosas + [1; 1)HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1)HBCP + [1; 1)HVOL + [.7; 1.3)CMBAL + [1; 1)CMRESTO + [0; .5)GRAD + [1; 1)RCE.Esfuerzos + [1; 1)RPT.
ef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-692.61	-110.83	420.57	0	-321.72	2	-225.26	2	-190.45	2.35	-181.56
115	116	149.20	-692.61	-93.97	540.89	0	-241.12	2	-267.79	2	-222.92	2.35	-229.33
116	116	149.20	-693.19	-116.87	541.06	0	-240.63	2	-268.32	2	-223.42	2.35	-229.96
116	117	150.38	-693.30	-122.67	676.89	0	-149.67	2	-316.68	2	-260.05	2.35	-283.77
117	117	150.38	-693.30	-122.67	676.89	0	-246.00	2	-237.62	2	-188.00	2.35	-189.39
117	118	151.55	-693.12	-102.72	809.54	0	-154.95	2	-272.61	2	-212.91	2.35	-229.63
118	118	151.55	-692.58	-79.83	809.40	0	-155.44	2	-272.23	2	-212.56	2.35	-229.16
118	119	152.73	-692.58	-59.89	891.48	0	-99.21	2	-293.36	2	-228.06	2.35	-254.20
119	119	152.73	-692.58	-59.89	891.48	0	-99.21	2	-293.36	2	-228.06	2.35	-254.20
119	120	153.90	-692.58	-39.95	950.15	0	-59.01	2	-308.49	2	-239.12	2.35	-272.08
120	120	153.90	-692.58	-39.95	950.15	0	-59.01	2	-308.49	2	-239.12	2.35	-272.08
120	121	155.08	-692.58	-20.02	985.37	0	-34.87	2	-317.61	2	-245.74	2.35	-282.77
121	121	155.08	-692.58	-20.02	985.37	0	-34.87	2	-317.61	2	-245.74	2.35	-282.77
121	122	156.25	-692.58	-0.08	997.18	0	-26.75	2	-320.73	2	-247.92	2.35	-286.30
122	122	156.25	-692.58	-0.08	997.18	0	-26.75	2	-320.73	2	-247.92	2.35	-286.30
122	123	157.43	-692.58	19.86	985.55	0	-34.69	2	-317.84	2	-245.65	2.35	-282.66
123	123	157.43	-692.58	19.86	985.55	0	-34.69	2	-317.84	2	-245.65	2.35	-282.66
123	124	158.60	-692.58	39.80	950.53	0	-58.64	2	-308.96	2	-238.95	2.35	-271.85
124	124	158.60	-692.58	39.80	950.53	0	-58.64	2	-308.96	2	-238.95	2.35	-271.85
124	125	159.78	-692.58	59.73	892.05	0	-98.67	2	-294.06	2	-227.79	2.35	-253.86
125	125	159.78	-692.58	59.73	892.05	0	-98.67	2	-294.06	2	-227.79	2.35	-253.86
125	126	160.95	-692.58	79.67	810.12	0	-154.75	2	-273.15	2	-212.20	2.35	-228.69
126	126	160.95	-692.58	79.67	810.12	0	-154.75	2	-273.15	2	-212.20	2.35	-228.69
126	127	162.13	-692.58	99.61	704.80	0	-226.85	2	-246.25	2	-192.16	2.35	-196.36
127	127	162.13	-692.58	99.61	704.80	0	-226.85	2	-246.25	2	-192.16	2.35	-196.36
127	128	163.30	-692.58	119.54	576.05	0	-314.99	2	-213.35	2	-167.68	2.35	-156.86
128	128	163.30	-692.58	119.54	576.05	0	-314.99	2	-213.35	2	-167.68	2.35	-156.86
128	129	164.48	-692.58	139.48	423.87	0	-419.18	2	-174.44	2	-138.76	2.35	-110.19
129	129	164.48	-692.58	139.48	423.87	0	-419.18	2	-174.44	2	-138.76	2.35	-110.19
129	130	165.65	-692.58	159.42	248.27	0	-539.41	2	-129.52	2	-105.40	2.35	-56.34
130	130	165.65	-376.11	159.42	377.30	0	-126.16	2	-135.57	2	-102.93	2.35	-104.32
130	131	166.83	-376.11	179.37	178.26	0	-262.44	2	-84.65	2	-65.12	2.35	-43.30
131	131	166.83	-376.11	179.37	178.26	0	-262.44	2	-84.65	2	-65.12	2.35	-43.30
131	132	167.00	-376.11	182.33	146.58	0	-284.13	2	-76.55	2	-59.11	2.35	-33.59
132	132	167.00	0.00	182.33	194.15	0	132.96	2	-49.83	2	-36.85	2.35	-59.48
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



Programa DINTEL IDEAM S.A.
CUASI-PERM1.Tinf.MZ+

04/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:

CUASI-PERM1.Tinf.MZ-

C. Cuasi-Permanentes con gradiente. Tinf

1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT.

ref. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-155.52	166.04	0	113.94	2	-43.56	2	-31.41	2.35	-50.63
2	2	1.00	-426.26	-155.52	101.29	0	-358.78	2	-73.85	2	-56.65	2.35	-21.22
2	3	1.18	-426.26	-153.01	128.29	0	-340.25	2	-80.91	2	-61.76	2.35	-29.46
3	3	1.18	-426.26	-153.01	128.29	0	-340.25	2	-80.91	2	-61.76	2.35	-29.46
3	4	2.35	-426.26	-136.15	298.17	0	-223.72	2	-125.33	2	-93.92	2.35	-81.29
4	4	2.35	-784.92	-136.15	142.81	0	-692.01	2	-118.72	2	-96.71	2.35	-26.81
4	5	3.53	-784.92	-119.30	292.88	0	-589.06	2	-157.95	2	-125.12	2.35	-72.60
5	5	3.53	-784.92	-119.30	292.88	0	-589.06	2	-157.95	2	-125.12	2.35	-72.60
5	6	4.70	-784.92	-102.43	423.15	0	-499.71	2	-191.97	2	-149.80	2.35	-112.35
6	6	4.70	-784.92	-102.43	423.15	0	-499.71	2	-191.97	2	-149.80	2.35	-112.35
6	7	5.88	-784.92	-85.57	533.61	0	-423.95	2	-220.80	2	-170.74	2.35	-146.05
7	7	5.88	-784.92	-85.57	533.61	0	-423.95	2	-220.80	2	-170.74	2.35	-146.05
7	8	7.05	-784.92	-68.72	624.27	0	-361.77	2	-244.44	2	-187.93	2.35	-173.71
8	8	7.05	-784.92	-68.72	624.27	0	-361.77	2	-244.44	2	-187.93	2.35	-173.71
8	9	8.23	-784.92	-51.87	695.14	0	-313.18	2	-262.88	2	-201.39	2.35	-195.33
9	9	8.23	-784.92	-51.87	695.14	0	-313.18	2	-262.88	2	-201.39	2.35	-195.33
9	10	9.40	-784.92	-35.02	746.20	0	-278.18	2	-276.12	2	-211.11	2.35	-210.91
10	10	9.40	-784.92	-35.02	746.20	0	-278.18	2	-276.12	2	-211.11	2.35	-210.91
10	11	10.58	-784.92	-18.16	777.43	0	-256.78	2	-284.16	2	-217.09	2.35	-220.44
11	11	10.58	-784.92	-18.16	777.43	0	-256.78	2	-284.16	2	-217.09	2.35	-220.44
11	12	11.75	-784.92	-1.31	788.87	0	-248.97	2	-287.01	2	-219.33	2.35	-223.94
12	12	11.75	-784.92	-1.31	788.87	0	-248.97	2	-287.01	2	-219.33	2.35	-223.94
12	13	12.93	-784.92	15.55	780.52	0	-254.74	2	-284.66	2	-217.83	2.35	-221.39
13	13	12.93	-784.92	15.55	780.52	0	-254.74	2	-284.66	2	-217.83	2.35	-221.39
13	14	14.10	-784.92	32.41	752.33	0	-274.12	2	-277.11	2	-212.58	2.35	-212.80
14	14	14.10	-784.92	32.41	752.33	0	-274.12	2	-277.11	2	-212.58	2.35	-212.80
14	15	15.28	-784.92	49.26	704.37	0	-307.07	2	-264.37	2	-203.60	2.35	-198.17
15	15	15.28	-784.92	49.26	704.37	0	-307.07	2	-264.37	2	-203.60	2.35	-198.17
15	16	16.45	-784.92	66.12	636.58	0	-353.63	2	-246.43	2	-190.88	2.35	-177.49
16	16	16.45	-785.27	91.21	636.74	0	-353.04	2	-246.76	2	-191.18	2.35	-177.92
16	17	17.63	-785.42	108.07	519.43	0	-433.74	2	-214.98	2	-169.28	2.35	-142.40
17	17	17.63	-785.42	108.07	519.43	0	-324.24	2	-281.58	2	-230.44	2.35	-225.63
17	18	18.80	-785.88	150.17	371.05	0	-423.74	2	-229.26	2	-190.55	2.35	-166.83
18	18	18.80	-785.09	125.07	370.87	0	-424.18	2	-228.64	2	-189.97	2.35	-166.13
18	19	19.98	-785.09	144.99	212.18	0	-530.13	2	-173.84	2	-146.84	2.35	-102.64
19	19	19.98	-785.09	144.99	212.18	0	-531.35	2	-170.30	2	-146.72	2.35	-103.59
19	20	21.15	-785.23	164.93	30.07	0	-653.43	2	-107.08	2	-97.10	2.35	-30.62
20	20	21.15	-426.26	164.98	212.60	0	-222.84	2	-127.96	2	-106.21	2.35	-94.68
20	21	22.33	-426.26	184.92	7.03	0	-360.17	2	-56.73	2	-50.32	2.35	-12.52
21	21	22.33	-426.26	184.92	7.03	0	-360.17	2	-56.73	2	-50.32	2.35	-12.52
21	22	22.50	-426.26	187.88	-25.59	0	-381.96	2	-45.43	2	-41.45	2.35	0.52
22	22	22.50	-546.59	187.88	450.34	0	-153.03	2	-253.26	2	-183.20	2.35	-190.26
22	23	23.50	-546.59	210.29	251.26	0	-286.04	2	-184.20	2	-129.08	2.35	-110.72
23	1023	23.50	-546.59	-250.05	251.26	0	-286.04	2	-184.20	2	-129.08	2.35	-110.72
23	24	24.50	-546.59	-227.65	490.14	0	-126.46	2	-267.00	2	-194.06	2.35	-206.17
24	24	24.50	-458.86	-227.65	-3.04	0	-394.91	2	-57.03	2	-51.33	2.35	-9.35
24	25	24.95	-458.86	-220.02	97.66	0	-327.64	2	-91.90	2	-78.73	2.35	-49.60
25	25	24.95	-458.86	-220.02	97.66	0	-327.64	2	-91.90	2	-78.73	2.35	-49.60
25	26	26.40	-458.86	-195.42	398.84	0	-126.46	2	-196.19	2	-160.68	2.35	-169.98
26	26	26.40	-850.30	-195.40	199.70	0	-595.81	2	-173.48	2	-150.82	2.35	-100.23
26	27	27.85	-850.17	-170.80	465.20	0	-418.06	2	-265.54	2	-223.17	2.35	-206.53
27	27	27.85	-850.17	-170.80	465.20	0	-417.10	2	-268.90	2	-223.19	2.35	-205.46
27	28	29.30	-850.17	-123.39	677.56	0	-275.13	2	-342.87	2	-280.86	2.35	-290.23
28	28	29.30	-1176.84	-153.85	520.93	0	-659.18	2	-328.19	2	-275.66	2.35	-236.43
28	29	30.75	-1176.69	-133.05	729.31	0	-519.47	2	-402.31	2	-331.86	2.35	-319.03
29	29	30.75	-1176.69	-133.05	729.31	0	-684.55	2	-306.25	2	-244.25	2.35	-198.82
29	30	32.20	-1176.55	-112.25	907.52	0	-561.97	2	-354.40	2	-277.67	2.35	-252.82
30	30	32.20	-1176.20	-81.78	907.34	0	-562.55	2	-354.07	2	-277.37	2.35	-252.40
30	31	33.65	-1176.20	-60.98	1010.84	0	-491.51	2	-381.31	2	-296.89	2.35	-283.96
31	31	33.65	-1176.20	-60.98	1010.84	0	-491.51	2	-381.31	2	-296.89	2.35	-283.96
31	32	35.10	-1176.20	-40.19	1084.18	0	-441.16	2	-400.63	2	-310.72	2.35	-306.32
32	32	35.10	-1176.20	-40.19	1084.18	0	-441.16	2	-400.63	2	-310.72	2.35	-306.32
32	33	36.55	-1176.20	-19.38	1127.35	0	-411.52	2	-412.04	2	-318.86	2.35	-319.48
33	33	36.55	-1176.20	-19.38	1127.35	0	-411.52	2	-412.04	2	-318.86	2.35	-319.48
33	34	38.00	-1176.20	1.42	1140.36	0	-402.57	2	-415.54	2	-321.30	2.35	-323.44
34	34	38.00	-1176.20	1.42	1140.36	0	-402.57	2	-415.54	2	-321.30	2.35	-323.44
34	35	39.45	-1176.20	22.23	1123.24	0	-414.30	2	-411.13	2	-318.05	2.35	-318.20
35	35	39.45	-1176.20	22.23	1123.24	0	-414.30	2	-411.13	2	-318.05	2.35	-318.20
35	36	40.90	-1176.20	43.03	1075.92	0	-446.75	2	-398.80	2	-309.09	2.35	-303.76
36	36	40.90	-1176.20	43.03	1075.92	0	-446.75	2	-398.80	2	-309.09	2.35	-303.76
36	37	42.35	-1176.20	63.81	998.47	0	-499.88	2	-378.56	2	-294.45	2.35	-280.12
37	37	42.35	-1176.20	63.81	998.47	0	-499.88	2	-378.56	2	-294.45	2.35	-280.12
37	38	43.80	-1176.20	84.62	890.84	0	-573.72	2	-350.40	2	-274.11	2.35	-247.27
38	38	43.80	-1176.58	115.09	891.02	0	-573.14	2	-350.75	2	-274.43	2.35	-247.70
38	39	45.25	-1176.72	135.89	708.70	0	-698.50	2	-301.69	2	-240.19	2.35	-192.42

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.Tinf.MZ-

1sl-Permanentes con gradiente. Tinf

[1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1176.72	135.89	708.70	0	-533.11	2	-395.74	2	-326.05	2.35	-310.67
39	40	46.70	-1176.88	156.70	496.21	0	-675.53	2	-320.31	2	-268.69	2.35	-226.40
40	40	46.70	-850.10	126.23	652.84	0	-291.44	2	-334.95	2	-273.86	2.35	-280.16
40	41	48.15	-850.10	173.67	435.97	0	-436.39	2	-259.55	2	-214.92	2.35	-193.57
41	41	48.15	-850.10	173.67	435.97	0	-437.11	2	-256.79	2	-214.93	2.35	-194.51
41	42	49.60	-850.25	198.29	166.33	0	-617.61	2	-163.49	2	-141.41	2.35	-86.49
42	42	49.60	-458.86	198.30	365.46	0	-148.34	2	-186.18	2	-151.25	2.35	-156.21
42	43	51.05	-458.86	222.90	60.10	0	-352.26	2	-80.64	2	-68.12	2.35	-34.10
43	43	51.05	-458.86	222.90	60.10	0	-352.26	2	-80.64	2	-68.12	2.35	-34.10
43	44	51.50	-458.86	230.53	-41.91	0	-420.39	2	-45.38	2	-40.35	2.35	6.69
44	44	51.50	-546.59	230.53	451.27	0	-151.94	2	-255.34	2	-183.08	2.35	-190.14
44	45	52.50	-546.59	252.93	209.53	0	-313.41	2	-171.68	2	-117.29	2.35	-93.50
45	1045	52.50	-546.59	-252.22	209.53	0	-313.41	2	-171.68	2	-117.29	2.35	-93.50
45	46	53.50	-546.59	-229.81	450.53	0	-152.42	2	-255.13	2	-182.87	2.35	-189.83
46	46	53.50	-458.86	-229.81	-42.65	0	-420.87	2	-45.16	2	-40.15	2.35	7.00
46	47	53.95	-458.86	-222.16	59.05	0	-352.95	2	-80.33	2	-67.83	2.35	-33.66
47	47	53.95	-458.86	-222.16	59.05	0	-352.95	2	-80.33	2	-67.83	2.35	-33.66
47	48	55.40	-458.86	-197.56	363.36	0	-149.71	2	-185.57	2	-150.66	2.35	-155.33
48	48	55.40	-850.28	-197.54	164.23	0	-619.01	2	-162.88	2	-140.82	2.35	-85.61
.8	49	56.85	-850.14	-172.95	432.84	0	-439.20	2	-255.88	2	-214.05	2.35	-193.19
49	49	56.85	-850.14	-172.95	432.84	0	-438.47	2	-258.55	2	-214.05	2.35	-192.31
49	50	58.30	-850.14	-125.97	651.36	0	-292.43	2	-334.49	2	-273.45	2.35	-279.57
50	50	58.30	-1176.88	-156.43	494.73	0	-676.51	2	-319.84	2	-268.26	2.35	-225.80
50	51	59.75	-1176.73	-135.64	706.86	0	-534.32	2	-395.16	2	-325.52	2.35	-309.93
51	51	59.75	-1176.73	-135.64	706.86	0	-699.75	2	-301.28	2	-239.82	2.35	-191.85
51	52	61.20	-1176.56	-114.83	888.83	0	-574.62	2	-350.26	2	-273.98	2.35	-247.02
52	52	61.20	-1176.20	-84.36	888.65	0	-575.20	2	-349.92	2	-273.67	2.35	-246.59
52	53	62.65	-1176.20	-63.57	995.89	0	-501.63	2	-377.99	2	-293.93	2.35	-279.32
53	53	62.65	-1176.20	-63.57	995.89	0	-501.63	2	-377.99	2	-293.93	2.35	-279.32
53	54	64.10	-1176.20	-42.76	1072.99	0	-448.73	2	-398.15	2	-308.51	2.35	-302.85
54	54	64.10	-1176.20	-42.76	1072.99	0	-448.73	2	-398.15	2	-308.51	2.35	-302.85
54	55	65.55	-1176.20	-21.97	1119.92	0	-416.54	2	-410.40	2	-317.38	2.35	-317.18
55	55	65.55	-1176.20	-21.97	1119.92	0	-416.54	2	-410.40	2	-317.38	2.35	-317.18
55	56	67.00	-1176.20	-1.16	1136.70	0	-405.05	2	-414.73	2	-320.56	2.35	-322.30
56	56	67.00	-1176.20	-1.16	1136.70	0	-405.05	2	-414.73	2	-320.56	2.35	-322.30
56	57	68.45	-1176.20	19.64	1123.32	0	-414.25	2	-411.15	2	-318.05	2.35	-318.23
57	57	68.45	-1176.20	19.64	1123.32	0	-414.25	2	-411.15	2	-318.05	2.35	-318.23
57	58	69.90	-1176.20	40.43	1079.78	0	-444.14	2	-399.66	2	-309.84	2.35	-304.96
58	58	69.90	-1176.20	40.43	1079.78	0	-444.14	2	-399.66	2	-309.84	2.35	-304.96
58	59	71.35	-1176.20	61.23	1006.07	0	-494.73	2	-380.25	2	-295.94	2.35	-282.48
59	59	71.35	-1176.20	61.23	1006.07	0	-494.73	2	-380.25	2	-295.94	2.35	-282.48
59	60	72.80	-1176.20	82.03	902.20	0	-566.03	2	-352.93	2	-276.34	2.35	-250.81
60	60	72.80	-1176.55	112.49	902.37	0	-565.45	2	-353.26	2	-276.64	2.35	-251.23
60	61	74.25	-1176.71	133.30	723.80	0	-688.28	2	-305.04	2	-243.15	2.35	-197.12
)1	61	74.25	-1176.71	133.30	723.80	0	-523.12	2	-400.56	2	-330.29	2.35	-316.81
61	62	75.70	-1176.85	154.10	515.05	0	-663.07	2	-326.32	2	-273.98	2.35	-234.05
62	62	75.70	-850.14	123.63	671.68	0	-279.00	2	-340.98	2	-279.17	2.35	-287.83
62	63	77.15	-850.14	171.51	447.34	0	-428.89	2	-263.18	2	-218.16	2.35	-198.20
63	63	77.15	-850.14	171.51	447.34	0	-429.67	2	-260.37	2	-218.16	2.35	-199.11
63	64	78.60	-850.28	196.12	180.80	0	-608.12	2	-168.02	2	-145.51	2.35	-92.37
64	64	78.60	-458.86	196.14	379.94	0	-138.80	2	-190.72	2	-155.37	2.35	-162.11
64	65	80.05	-458.86	220.75	77.70	0	-340.66	2	-86.13	2	-73.12	2.35	-41.29
65	65	80.05	-458.86	220.75	77.70	0	-340.66	2	-86.13	2	-73.12	2.35	-41.29
65	66	80.50	-458.86	228.38	-23.34	0	-408.15	2	-51.16	2	-45.63	2.35	-0.90
66	66	80.50	-546.59	228.38	469.84	0	-139.71	2	-261.12	2	-188.36	2.35	-197.72
66	67	81.50	-546.59	250.79	230.25	0	-299.76	2	-178.12	2	-123.18	2.35	-101.97
67	1067	81.50	-546.59	-272.64	230.25	0	-299.76	2	-178.12	2	-123.18	2.35	-101.97
67	68	82.50	-546.59	-250.22	491.70	0	-125.11	2	-268.67	2	-194.32	2.35	-206.47
68	68	82.50	-524.08	-250.22	-35.97	0	-472.59	2	-54.43	2	-49.62	2.35	2.45
68	69	83.08	-524.08	-240.47	105.10	0	-378.37	2	-103.23	2	-88.02	2.35	-53.94
69	69	83.08	-524.08	-240.47	105.10	0	-378.37	2	-103.23	2	-88.02	2.35	-53.94
69	70	84.65	-524.08	-213.74	462.81	0	-139.46	2	-226.99	2	-185.38	2.35	-196.95
70	70	84.65	-980.71	-213.73	230.49	0	-686.93	2	-200.53	2	-173.91	2.35	-115.63
70	71	86.23	-980.57	-187.02	546.09	0	-475.72	2	-309.83	2	-259.92	2.35	-241.98
71	71	86.23	-980.57	-187.02	546.09	0	-475.02	2	-312.34	2	-259.92	2.35	-241.17
71	72	87.80	-980.57	-136.07	787.59	0	-313.50	2	-396.72	2	-325.47	2.35	-337.49
72	72	87.80	-1437.72	-170.34	568.23	0	-851.38	2	-375.97	2	-317.99	2.35	-261.93
72	73	89.38	-1437.57	-147.74	819.18	0	-683.15	2	-465.16	2	-385.73	2.35	-361.45
73	73	89.38	-1437.57	-147.74	819.18	0	-886.11	2	-353.86	2	-284.65	2.35	-221.26
73	74	90.95	-1437.40	-125.15	1034.57	0	-737.97	2	-411.94	2	-325.08	2.35	-286.56
	74	90.95	-1437.04	-90.88	1034.37	0	-738.57	2	-411.60	2	-324.77	2.35	-286.13
74	75	92.53	-1437.04	-68.29	1159.72	0	-652.56	2	-444.46	2	-348.45	2.35	-324.37
75	75	92.53	-1437.04	-68.29	1159.72	0	-652.56	2	-444.46	2	-348.45	2.35	-324.37
75	76	94.10	-1437.04	-45.70	1249.50	0	-590.96	2	-467.98	2	-365.40	2.35	-351.77
76	76	94.10	-1437.04	-45.70	1249.50	0	-590.96	2	-467.98	2	-365.40	2.35	-351.77
76	77	95.68	-1437.04	-23.10	1303.69	0	-553.78	2	-482.17	2	-375.65	2.35	-368.31

CÁLCULO TENSIONAL

Hipótesis de cálculo:
CUASI-PERM1.Tinf.MZ-

: Cuasi-Permanentes con gradiente. Tinf

1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Preiosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT
ef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1437.04	-23.10	1303.69	0	-553.78	2	-482.17	2	-375.65	2.35	-368.31
77	78	97.25	-1437.04	-0.51	1322.29	0	-541.03	2	-487.01	2	-379.16	2.35	-373.98
78	78	97.25	-1437.04	-0.51	1322.29	0	-541.03	2	-487.01	2	-379.16	2.35	-373.98
78	79	98.83	-1437.04	22.09	1305.31	0	-552.68	2	-482.53	2	-375.97	2.35	-368.81
79	79	98.83	-1437.04	22.09	1305.31	0	-552.68	2	-482.53	2	-375.97	2.35	-368.81
79	80	100.40	-1437.04	44.68	1252.72	0	-588.78	2	-468.70	2	-366.04	2.35	-352.77
80	80	100.40	-1437.04	44.68	1252.72	0	-588.78	2	-468.70	2	-366.04	2.35	-352.77
80	81	101.98	-1437.04	67.28	1164.59	0	-649.27	2	-445.54	2	-349.41	2.35	-325.89
81	81	101.98	-1437.04	67.28	1164.59	0	-649.27	2	-445.54	2	-349.41	2.35	-325.89
81	82	103.55	-1437.04	89.86	1040.85	0	-734.19	2	-413.04	2	-326.05	2.35	-288.14
82	82	103.55	-1437.39	124.13	1041.04	0	-733.59	2	-413.37	2	-326.36	2.35	-288.57
82	83	105.13	-1437.55	146.72	827.31	0	-880.61	2	-355.66	2	-286.25	2.35	-223.79
83	83	105.13	-1437.55	146.72	827.31	0	-677.77	2	-467.75	2	-388.02	2.35	-364.75
83	84	106.70	-1437.69	169.32	577.96	0	-844.94	2	-379.07	2	-320.74	2.35	-265.88
84	84	106.70	-980.55	135.05	797.32	0	-307.06	2	-399.81	2	-328.21	2.35	-341.43
84	85	108.28	-980.55	187.14	544.78	0	-475.88	2	-311.90	2	-259.61	2.35	-240.61
85	85	108.28	-980.55	187.14	544.78	0	-476.53	2	-309.52	2	-259.61	2.35	-241.40
85	86	109.85	-980.69	213.86	228.99	0	-687.85	2	-200.17	2	-173.55	2.35	-114.96
86	86	109.85	-524.08	213.88	461.31	0	-140.41	2	-226.64	2	-185.02	2.35	-196.28
86	87	111.43	-524.08	240.61	103.43	0	-379.44	2	-102.84	2	-87.62	2.35	-53.20
87	87	111.43	-524.08	240.61	103.43	0	-379.44	2	-102.84	2	-87.62	2.35	-53.20
87	88	112.00	-524.08	250.36	-37.75	0	-473.73	2	-54.00	2	-49.20	2.35	3.24
88	88	112.00	-546.59	250.36	489.92	0	-126.25	2	-268.24	2	-193.89	2.35	-205.68
88	89	113.00	-546.59	272.79	228.36	0	-300.96	2	-177.67	2	-122.73	2.35	-101.13
89	1089	113.00	-546.59	-273.78	228.36	0	-300.96	2	-177.67	2	-122.73	2.35	-101.13
89	90	114.00	-546.59	-251.36	490.98	0	-125.55	2	-268.56	2	-194.19	2.35	-206.11
90	90	114.00	-524.08	-251.36	-36.69	0	-473.03	2	-54.32	2	-49.50	2.35	2.81
90	91	114.58	-524.08	-241.60	105.00	0	-378.40	2	-103.31	2	-88.07	2.35	-53.85
91	91	114.58	-524.08	-241.60	105.00	0	-378.40	2	-103.31	2	-88.07	2.35	-53.85
91	92	116.15	-524.08	-214.88	464.50	0	-138.32	2	-227.60	2	-185.92	2.35	-197.60
92	92	116.15	-980.68	-214.88	232.18	0	-685.73	2	-201.14	2	-174.46	2.35	-116.29
92	93	117.73	-980.54	-188.15	549.56	0	-473.37	2	-310.96	2	-260.97	2.35	-243.39
93	93	117.73	-980.54	-188.15	549.56	0	-472.71	2	-313.43	2	-260.95	2.35	-242.56
93	94	119.30	-980.54	-135.99	803.19	0	-303.18	2	-401.68	2	-329.87	2.35	-343.81
94	94	119.30	-1437.71	-170.25	583.84	0	-841.07	2	-380.95	2	-322.40	2.35	-268.27
94	95	120.88	-1437.56	-147.64	834.64	0	-672.93	2	-470.09	2	-390.09	2.35	-367.73
95	95	120.88	-1437.56	-147.64	834.64	0	-875.65	2	-357.29	2	-287.70	2.35	-226.07
95	96	122.45	-1437.41	-125.05	1049.87	0	-727.62	2	-415.34	2	-328.10	2.35	-291.32
96	96	122.45	-1437.04	-90.79	1049.68	0	-728.22	2	-415.00	2	-327.79	2.35	-290.89
96	97	124.03	-1437.04	-68.19	1174.88	0	-642.30	2	-447.82	2	-351.44	2.35	-329.09
97	97	124.03	-1437.04	-68.19	1174.88	0	-642.30	2	-447.82	2	-351.44	2.35	-329.09
97	98	125.60	-1437.04	-45.60	1264.50	0	-580.81	2	-471.31	2	-368.36	2.35	-356.43
98	98	125.60	-1437.04	-45.60	1264.50	0	-580.81	2	-471.31	2	-368.36	2.35	-356.43
98	99	127.18	-1437.04	-23.00	1318.52	0	-543.74	2	-485.46	2	-378.57	2.35	-372.92
99	99	127.18	-1437.04	-23.00	1318.52	0	-543.74	2	-485.46	2	-378.57	2.35	-372.92
99	100	128.75	-1437.04	-0.42	1336.98	0	-531.09	2	-490.28	2	-382.06	2.35	-378.55
100	100	128.75	-1437.04	-0.42	1336.98	0	-531.09	2	-490.28	2	-382.06	2.35	-378.55
100	101	130.33	-1437.04	22.17	1319.86	0	-542.84	2	-485.76	2	-378.83	2.35	-373.33
101	101	130.33	-1437.04	22.17	1319.86	0	-542.84	2	-485.76	2	-378.83	2.35	-373.33
101	102	131.90	-1437.04	44.77	1267.13	0	-579.03	2	-471.90	2	-368.88	2.35	-357.25
102	102	131.90	-1437.04	44.77	1267.13	0	-579.03	2	-471.90	2	-368.88	2.35	-357.25
102	103	133.48	-1437.04	67.36	1178.83	0	-639.63	2	-448.70	2	-352.21	2.35	-330.32
103	103	133.48	-1437.04	67.36	1178.83	0	-639.63	2	-448.70	2	-352.21	2.35	-330.32
103	104	135.05	-1437.04	89.96	1054.94	0	-724.65	2	-416.17	2	-328.82	2.35	-292.53
104	104	135.05	-1437.39	124.23	1055.14	0	-724.05	2	-416.50	2	-329.13	2.35	-292.96
104	105	136.63	-1437.54	146.83	841.23	0	-871.18	2	-358.74	2	-288.99	2.35	-228.11
105	105	136.63	-1437.54	146.83	841.23	0	-668.57	2	-472.19	2	-391.94	2.35	-370.40
105	106	138.20	-1437.71	169.42	591.73	0	-835.85	2	-383.47	2	-324.62	2.35	-271.48
106	106	138.20	-980.58	135.14	811.09	0	-297.98	2	-404.22	2	-332.10	2.35	-347.03
106	107	139.78	-980.58	186.01	573.14	0	-457.15	2	-320.98	2	-267.55	2.35	-252.16
107	107	139.78	-980.58	186.01	573.14	0	-458.01	2	-317.95	2	-267.54	2.35	-253.13
107	108	141.35	-980.72	212.72	259.13	0	-668.17	2	-209.13	2	-181.97	2.35	-127.43
108	108	141.35	-524.08	212.75	491.45	0	-120.67	2	-235.60	2	-193.45	2.35	-208.77
108	109	142.93	-524.08	239.48	135.33	0	-358.55	2	-112.31	2	-96.54	2.35	-66.41
109	109	142.93	-524.08	239.48	135.33	0	-358.55	2	-112.31	2	-96.54	2.35	-66.41
109	110	143.50	-524.08	249.23	-5.21	0	-452.42	2	-63.66	2	-58.29	2.35	-10.24
110	110	143.50	-546.59	249.23	522.46	0	-104.94	2	-277.90	2	-202.99	2.35	-219.16
110	111	144.50	-546.59	271.65	262.06	0	-278.90	2	-187.68	2	-132.14	2.35	-115.09
111	1111	144.50	-546.59	-209.84	262.06	0	-278.90	2	-187.68	2	-132.14	2.35	-115.09
111	112	145.50	-546.59	-187.42	460.72	0	-146.17	2	-256.60	2	-186.14	2.35	-194.46
112	112	145.50	-426.26	-187.42	-15.22	0	-375.10	2	-48.77	2	-44.39	2.35	-3.68
112	113	145.68	-426.26	-184.45	17.30	0	-353.37	2	-60.04	2	-53.23	2.35	-16.68
113	113	145.68	-426.26	-184.45	17.30	0	-353.37	2	-60.04	2	-53.23	2.35	-16.68
113	114	146.85	-426.26	-164.52	222.32	0	-216.41	2	-131.09	2	-108.97	2.35	-98.62
114	114	146.85	-785.23	-164.49	39.78	0	-646.99	2	-110.21	2	-99.85	2.35	-34.55
114	115	148.03	-785.09	-144.54	221.37	0	-525.27	2	-173.26	2	-149.33	2.35	-107.31

CÁLCULO TENSIONAL

Hipótesis de cálculo:

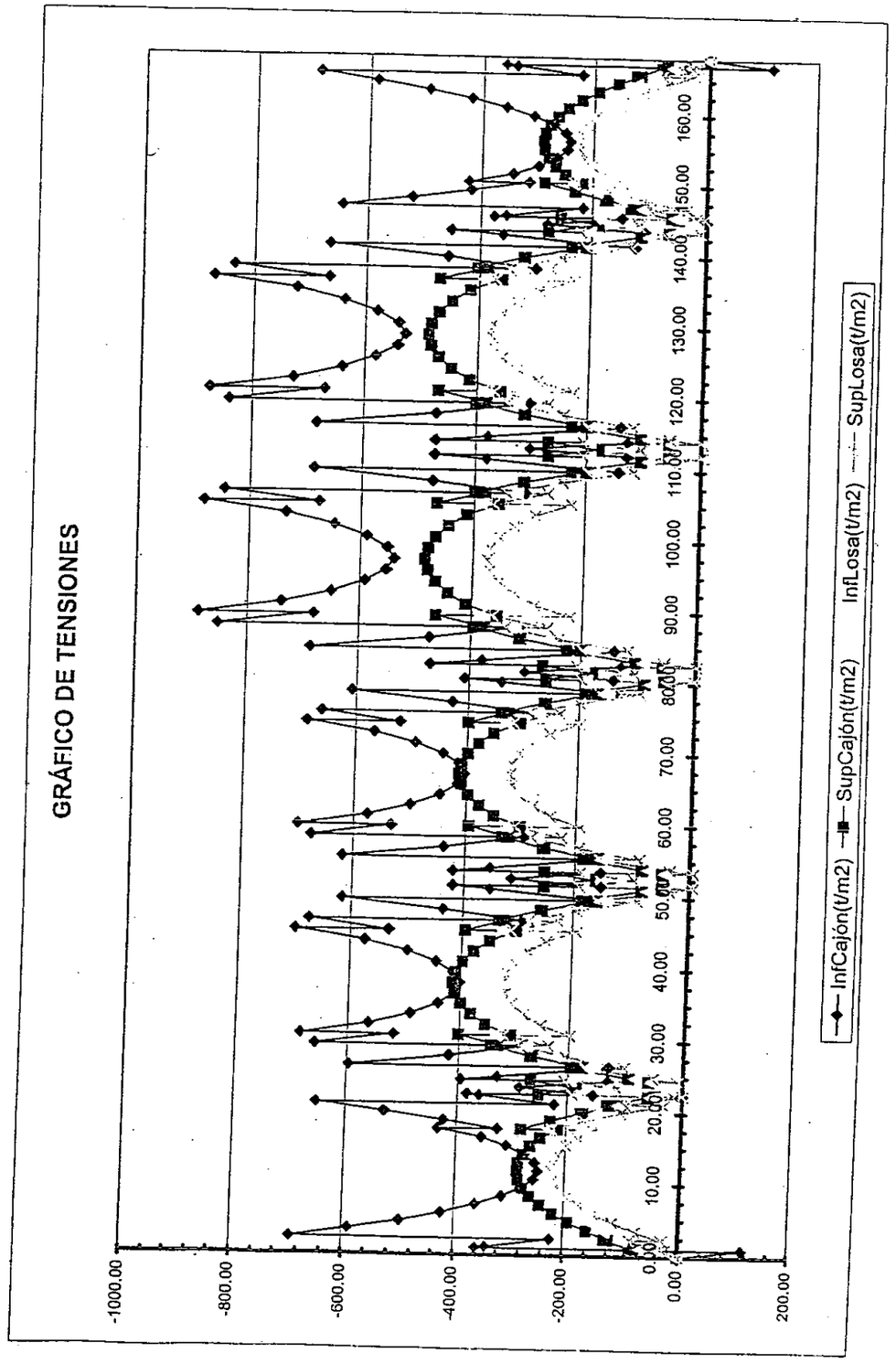
CUASI-PERM1.Tinf.MZ-

Cuasi-Permanentes con gradiente. Tinf

[...]as + [85; 1.05]fase1.ISO.To + [1; 1]Pretosas + [1; 1]HBCV + [.9; 1.1]fase4 ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-785.09	-144.54	221.37	0	-524.06	2	-176.77	2	-149.44	2.35	-106.37
115	116	149.20	-785.09	-124.60	379.52	0	-418.46	2	-231.40	2	-192.42	2.35	-169.64
116	116	149.20	-785.87	-149.71	379.70	0	-418.02	2	-232.02	2	-192.99	2.35	-170.34
116	117	150.38	-785.40	-107.12	535.95	0	-313.31	2	-286.85	2	-235.07	2.35	-232.34
117	117	150.38	-785.40	-107.12	535.95	0	-422.55	2	-218.65	2	-172.51	2.35	-147.54
117	118	151.55	-785.26	-90.26	652.16	0	-342.60	2	-250.18	2	-194.20	2.35	-182.71
118	118	151.55	-784.92	-65.18	652.01	0	-343.19	2	-249.86	2	-193.90	2.35	-182.30
118	119	152.73	-784.92	-48.32	718.68	0	-297.39	2	-267.55	2	-206.41	2.35	-202.63
119	119	152.73	-784.92	-48.32	718.68	0	-297.39	2	-267.55	2	-206.41	2.35	-202.63
119	120	153.90	-784.92	-31.46	765.56	0	-265.17	2	-280.05	2	-215.18	2.35	-216.92
120	120	153.90	-784.92	-31.46	765.56	0	-265.17	2	-280.05	2	-215.18	2.35	-216.92
120	121	155.08	-784.92	-14.61	792.62	0	-246.55	2	-287.35	2	-220.20	2.35	-225.16
121	121	155.08	-784.92	-14.61	792.62	0	-246.55	2	-287.35	2	-220.20	2.35	-225.16
121	122	156.25	-784.92	2.25	799.89	0	-241.51	2	-289.46	2	-221.49	2.35	-227.37
122	122	156.25	-784.92	2.25	799.89	0	-241.51	2	-289.46	2	-221.49	2.35	-227.37
122	123	157.43	-784.92	19.10	787.34	0	-250.08	2	-286.36	2	-219.03	2.35	-223.53
123	123	157.43	-784.92	19.10	787.34	0	-250.08	2	-286.36	2	-219.03	2.35	-223.53
123	124	158.60	-784.92	35.95	755.02	0	-272.21	2	-278.08	2	-212.84	2.35	-213.66
124	124	158.60	-784.92	35.95	755.02	0	-272.21	2	-278.08	2	-212.84	2.35	-213.66
	125	159.78	-784.92	52.81	702.86	0	-307.95	2	-264.59	2	-202.91	2.35	-197.74
125	125	159.78	-784.92	52.81	702.86	0	-307.95	2	-264.59	2	-202.91	2.35	-197.74
125	126	160.95	-784.92	69.66	630.88	0	-357.30	2	-245.90	2	-189.23	2.35	-175.77
126	126	160.95	-784.92	69.66	630.88	0	-357.30	2	-245.90	2	-189.23	2.35	-175.77
126	127	162.13	-784.92	86.52	539.13	0	-420.21	2	-222.03	2	-171.82	2.35	-147.77
127	127	162.13	-784.92	86.52	539.13	0	-420.21	2	-222.03	2	-171.82	2.35	-147.77
127	128	163.30	-784.92	103.37	427.56	0	-496.73	2	-192.95	2	-150.66	2.35	-113.72
128	128	163.30	-784.92	103.37	427.56	0	-496.73	2	-192.95	2	-150.66	2.35	-113.72
128	129	164.48	-784.92	120.23	296.19	0	-586.83	2	-158.68	2	-125.77	2.35	-73.63
129	129	164.48	-784.92	120.23	296.19	0	-586.83	2	-158.68	2	-125.77	2.35	-73.63
129	130	165.65	-784.92	137.09	145.02	0	-690.51	2	-119.22	2	-97.14	2.35	-27.50
130	130	165.65	-426.26	137.09	300.39	0	-222.22	2	-125.82	2	-94.35	2.35	-81.98
130	131	166.83	-426.26	153.95	129.40	0	-339.50	2	-81.16	2	-61.98	2.35	-29.81
131	131	166.83	-426.26	153.95	129.40	0	-339.50	2	-81.16	2	-61.98	2.35	-29.81
131	132	167.00	-426.26	156.46	102.21	0	-358.15	2	-74.05	2	-56.83	2.35	-21.51
132	132	167.00	0.00	156.46	166.96	0	114.56	2	-43.77	2	-31.59	2.35	-50.92
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.Tinf.MZ+
...entes con gradiente. Dominante GRAD.Tinf

[1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-183.00	194.84	0	133.43	2	-49.98	2	-36.98	2.35	-59.72
2	2	1.00	-376.11	-183.00	147.27	0	-283.66	2	-76.70	2	-59.24	2.35	-33.83
2	3	1.18	-376.11	-180.03	179.05	0	-261.90	2	-84.83	2	-65.27	2.35	-43.57
3	3	1.18	-376.11	-180.03	179.05	0	-261.90	2	-84.83	2	-65.27	2.35	-43.57
3	4	2.35	-376.11	-160.09	378.86	0	-125.10	2	-135.92	2	-103.23	2.35	-104.86
4	4	2.35	-692.58	-160.09	249.83	0	-538.35	2	-129.87	2	-105.70	2.35	-56.88
4	5	3.53	-692.58	-140.16	426.23	0	-417.58	2	-174.96	2	-139.21	2.35	-111.00
5	5	3.53	-692.58	-140.16	426.23	0	-417.58	2	-174.96	2	-139.21	2.35	-111.00
5	6	4.70	-692.58	-120.21	579.19	0	-312.86	2	-214.05	2	-168.28	2.35	-157.94
6	6	4.70	-692.58	-120.21	579.19	0	-312.86	2	-214.05	2	-168.28	2.35	-157.94
6	7	5.88	-692.58	-100.27	708.73	0	-224.19	2	-247.13	2	-192.91	2.35	-197.71
7	7	5.88	-692.58	-100.27	708.73	0	-224.19	2	-247.13	2	-192.91	2.35	-197.71
7	8	7.05	-692.58	-80.34	814.85	0	-151.55	2	-274.21	2	-213.09	2.35	-230.31
8	8	7.05	-692.58	-80.34	814.85	0	-151.55	2	-274.21	2	-213.09	2.35	-230.31
8	9	8.23	-692.58	-60.41	897.55	0	-94.95	2	-295.29	2	-228.84	2.35	-255.75
9	9	8.23	-692.58	-60.41	897.55	0	-94.95	2	-295.29	2	-228.84	2.35	-255.75
9	10	9.40	-692.58	-40.46	956.82	0	-54.39	2	-310.36	2	-240.14	2.35	-274.01
10	10	9.40	-692.58	-40.46	956.82	0	-54.39	2	-310.36	2	-240.14	2.35	-274.01
10	11	10.58	-692.58	-20.53	992.65	0	-29.89	2	-319.42	2	-247.00	2.35	-285.09
11	11	10.58	-692.58	-20.53	992.65	0	-29.89	2	-319.42	2	-247.00	2.35	-285.09
11	12	11.75	-692.58	-0.59	1005.05	0	-21.42	2	-322.48	2	-249.41	2.35	-289.00
12	12	11.75	-692.58	-0.59	1005.05	0	-21.42	2	-322.48	2	-249.41	2.35	-289.00
12	13	12.93	-692.58	19.35	994.05	0	-28.99	2	-319.55	2	-247.39	2.35	-285.75
13	13	12.93	-692.58	19.35	994.05	0	-28.99	2	-319.55	2	-247.39	2.35	-285.75
13	14	14.10	-692.58	39.29	959.58	0	-52.62	2	-310.59	2	-240.91	2.35	-275.31
14	14	14.10	-692.58	39.29	959.58	0	-52.62	2	-310.59	2	-240.91	2.35	-275.31
14	15	15.28	-692.58	59.22	901.73	0	-92.28	2	-295.65	2	-230.00	2.35	-257.71
15	15	15.28	-692.58	59.22	901.73	0	-92.28	2	-295.65	2	-230.00	2.35	-257.71
15	16	16.45	-692.58	79.16	820.43	0	-147.98	2	-274.69	2	-214.65	2.35	-232.94
16	16	16.45	-693.11	102.08	820.57	0	-147.48	2	-275.07	2	-215.00	2.35	-233.40
16	17	17.63	-693.30	122.02	688.70	0	-238.00	2	-240.26	2	-190.24	2.35	-193.44
17	17	17.63	-693.30	122.02	688.70	0	-141.88	2	-320.46	2	-263.27	2.35	-288.97
17	18	18.80	-693.19	116.68	544.66	0	-238.27	2	-269.48	2	-224.36	2.35	-231.84
18	18	18.80	-692.61	93.78	544.50	0	-238.75	2	-268.94	2	-223.86	2.35	-231.21
18	19	19.98	-692.61	110.63	424.40	0	-319.21	2	-226.48	2	-191.44	2.35	-183.56
19	19	19.98	-692.61	110.63	424.40	0	-320.20	2	-223.58	2	-191.35	2.35	-184.33
19	20	21.15	-692.75	127.47	284.49	0	-414.38	2	-173.90	2	-153.45	2.35	-128.65
20	20	21.15	-376.11	127.51	438.34	0	-35.26	2	-192.18	2	-161.15	2.35	-184.62
20	21	22.33	-376.11	144.36	278.61	0	-142.28	2	-135.66	2	-118.00	2.35	-121.23
21	21	22.33	-376.11	144.36	278.61	0	-142.28	2	-135.66	2	-118.00	2.35	-121.23
21	22	22.50	-376.11	146.87	253.12	0	-159.35	2	-126.64	2	-111.11	2.35	-111.11
22	22	22.50	-692.34	146.87	786.45	0	-39.87	2	-394.68	2	-296.92	2.35	-338.58
22	23	23.50	-692.34	166.65	629.69	0	-144.90	2	-339.19	2	-254.56	2.35	-276.36
23	1023	23.50	-692.34	-210.96	629.69	0	-144.90	2	-339.19	2	-254.56	2.35	-276.36
23	24	24.50	-692.34	-191.18	830.79	0	-10.29	2	-409.89	2	-309.04	2.35	-356.42
24	24	24.50	-404.88	-191.18	282.89	0	-164.57	2	-139.99	2	-122.39	2.35	-123.67
24	25	24.95	-404.88	-184.73	367.45	0	-107.98	2	-169.69	2	-145.31	2.35	-157.35
25	25	24.95	-404.88	-184.73	367.45	0	-107.98	2	-169.69	2	-145.31	2.35	-157.35
25	26	26.40	-404.88	-163.93	620.21	0	61.19	2	-258.47	2	-213.80	2.35	-258.00
26	26	26.40	-750.26	-163.91	452.37	0	-352.11	2	-238.63	2	-205.49	2.35	-197.09
26	27	27.85	-750.13	-143.11	674.97	0	-202.71	2	-316.95	2	-265.92	2.35	-285.91
27	27	27.85	-750.13	-143.11	674.97	0	-201.95	2	-319.61	2	-265.94	2.35	-285.07
27	28	29.30	-750.13	-145.12	884.85	0	-61.62	2	-392.78	2	-322.92	2.35	-358.79
28	28	29.30	-1038.69	-172.93	753.21	0	-399.82	2	-380.17	2	-318.80	2.35	-322.02
28	29	30.75	-1038.51	-148.33	986.47	0	-243.71	2	-462.01	2	-381.96	2.35	-414.77
29	29	30.75	-1038.51	-148.33	986.47	0	-388.69	2	-345.34	2	-276.29	2.35	-275.85
29	30	32.20	-1038.33	-123.72	1184.03	0	-253.07	2	-397.49	2	-313.50	2.35	-335.91
30	30	32.20	-1037.82	-95.91	1183.87	0	-253.58	2	-397.12	2	-313.16	2.35	-335.45
30	31	33.65	-1037.82	-71.29	1305.08	0	-170.54	2	-428.31	2	-336.12	2.35	-372.52
31	31	33.65	-1037.82	-71.29	1305.08	0	-170.54	2	-428.31	2	-336.12	2.35	-372.52
31	32	35.10	-1037.82	-46.70	1390.63	0	-111.93	2	-450.36	2	-352.33	2.35	-398.66
32	32	35.10	-1037.82	-46.70	1390.63	0	-111.93	2	-450.36	2	-352.33	2.35	-398.66
32	33	36.55	-1037.82	-22.09	1440.49	0	-77.76	2	-463.26	2	-361.76	2.35	-413.88
33	33	36.55	-1037.82	-22.09	1440.49	0	-77.76	2	-463.26	2	-361.76	2.35	-413.88
33	34	38.00	-1037.82	2.51	1454.67	0	-68.02	2	-467.02	2	-364.43	2.35	-418.18
34	34	38.00	-1037.82	2.51	1454.67	0	-68.02	2	-467.02	2	-364.43	2.35	-418.18
34	35	39.45	-1037.82	27.13	1433.20	0	-82.69	2	-461.64	2	-360.34	2.35	-411.56
35	35	39.45	-1037.82	27.13	1433.20	0	-82.69	2	-461.64	2	-360.34	2.35	-411.56
35	36	40.90	-1037.82	51.73	1376.03	0	-121.81	2	-447.11	2	-349.47	2.35	-394.02
36	36	40.90	-1037.82	51.73	1376.03	0	-121.81	2	-447.11	2	-349.47	2.35	-394.02
36	37	42.35	-1037.82	76.32	1283.20	0	-185.35	2	-423.44	2	-331.85	2.35	-365.55
37	37	42.35	-1037.82	76.32	1283.20	0	-185.35	2	-423.44	2	-331.85	2.35	-365.55
37	38	43.80	-1037.82	100.93	1154.67	0	-273.34	2	-390.62	2	-307.46	2.35	-326.16
38	38	43.80	-1038.39	128.75	1154.85	0	-272.84	2	-391.02	2	-307.82	2.35	-326.64
38	39	45.25	-1038.56	153.35	950.00	0	-413.39	2	-337.25	2	-269.19	2.35	-264.26

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.Tinf.MZ+
Frecuentes con gradiente. Dominante GRAD.Tinf

[1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1038.56	153.35	950.00	0	-267.83	2	-450.38	2	-371.77	2.35	-399.69
39	40	46.70	-1038.76	177.96	709.46	0	-428.75	2	-366.22	2	-306.58	2.35	-303.92
40	40	46.70	-750.11	150.14	841.09	0	-90.52	2	-378.80	2	-310.68	2.35	-350.67
40	41	48.15	-750.11	148.10	624.27	0	-235.44	2	-303.40	2	-251.75	2.35	-264.07
41	41	48.15	-750.11	148.10	624.27	0	-236.02	2	-301.20	2	-251.76	2.35	-264.81
41	42	49.60	-750.26	168.91	394.45	0	-390.19	2	-220.65	2	-189.31	2.35	-172.98
42	42	49.60	-404.88	168.93	562.28	0	23.06	2	-240.46	2	-197.59	2.35	-233.85
42	43	51.05	-404.88	189.72	302.27	0	-150.89	2	-149.42	2	-127.07	2.35	-130.17
43	43	51.05	-404.88	189.72	302.27	0	-150.89	2	-149.42	2	-127.07	2.35	-130.17
43	44	51.50	-404.88	196.18	215.46	0	-208.97	2	-119.02	2	-103.52	2.35	-95.56
44	44	51.50	-692.34	196.18	763.35	0	-54.69	2	-388.92	2	-290.17	2.35	-328.31
44	45	52.50	-692.34	215.96	557.27	0	-192.58	2	-316.67	2	-234.30	2.35	-246.17
45	1045	52.50	-692.34	-214.76	557.27	0	-192.58	2	-316.67	2	-234.30	2.35	-246.17
45	46	53.50	-692.34	-194.97	762.13	0	-55.49	2	-388.54	2	-289.83	2.35	-327.79
46	46	53.50	-404.88	-194.97	214.23	0	-209.78	2	-118.64	2	-103.18	2.35	-95.04
46	47	53.95	-404.88	-188.51	300.51	0	-152.05	2	-148.88	2	-126.58	2.35	-129.43
47	47	53.95	-404.88	-188.51	300.51	0	-152.05	2	-148.88	2	-126.58	2.35	-129.43
47	48	55.40	-404.88	-167.71	558.78	0	20.76	2	-239.39	2	-196.61	2.35	-232.36
48	48	55.40	-750.26	-167.69	390.94	0	-392.51	2	-219.56	2	-188.33	2.35	-171.48
48	49	56.85	-750.12	-146.90	619.03	0	-239.49	2	-299.59	2	-250.29	2.35	-262.57
49	49	56.85	-750.12	-146.90	619.03	0	-238.90	2	-301.73	2	-250.29	2.35	-261.87
49	50	58.30	-750.12	-148.46	831.34	0	-96.97	2	-375.69	2	-307.97	2.35	-346.61
50	50	58.30	-1038.74	-176.27	699.71	0	-435.18	2	-363.10	2	-303.86	2.35	-299.85
50	51	59.75	-1038.56	-151.68	937.81	0	-275.87	2	-446.48	2	-368.38	2.35	-394.61
51	51	59.75	-1038.56	-151.68	937.81	0	-421.63	2	-334.53	2	-266.82	2.35	-260.34
51	52	61.20	-1038.36	-127.07	1140.25	0	-282.71	2	-387.76	2	-304.98	2.35	-321.94
52	52	61.20	-1037.82	-99.25	1140.08	0	-283.21	2	-387.38	2	-304.63	2.35	-321.48
52	53	62.65	-1037.82	-74.65	1266.14	0	-196.89	2	-419.64	2	-328.54	2.35	-360.08
53	53	62.65	-1037.82	-74.65	1266.14	0	-196.89	2	-419.64	2	-328.54	2.35	-360.08
53	54	64.10	-1037.82	-50.03	1356.55	0	-134.99	2	-442.77	2	-345.70	2.35	-387.77
54	54	64.10	-1037.82	-50.03	1356.55	0	-134.99	2	-442.77	2	-345.70	2.35	-387.77
54	55	65.55	-1037.82	-25.44	1411.28	0	-97.53	2	-456.76	2	-356.08	2.35	-404.53
55	55	65.55	-1037.82	-25.44	1411.28	0	-97.53	2	-456.76	2	-356.08	2.35	-404.53
55	56	67.00	-1037.82	-0.83	1430.33	0	-84.49	2	-461.60	2	-359.71	2.35	-410.37
56	56	67.00	-1037.82	-0.83	1430.33	0	-84.49	2	-461.60	2	-359.71	2.35	-410.37
56	57	68.45	-1037.82	23.77	1413.71	0	-95.88	2	-457.30	2	-356.56	2.35	-405.29
57	57	68.45	-1037.82	23.77	1413.71	0	-95.88	2	-457.30	2	-356.56	2.35	-405.29
57	58	69.90	-1037.82	48.36	1361.42	0	-131.70	2	-443.85	2	-346.66	2.35	-389.29
58	58	69.90	-1037.82	48.36	1361.42	0	-131.70	2	-443.85	2	-346.66	2.35	-389.29
58	59	71.35	-1037.82	72.97	1273.44	0	-191.96	2	-421.26	2	-329.98	2.35	-362.36
59	59	71.35	-1037.82	72.97	1273.44	0	-191.96	2	-421.26	2	-329.98	2.35	-362.36
59	60	72.80	-1037.82	97.57	1149.78	0	-276.65	2	-389.53	2	-306.54	2.35	-324.52
60	60	72.80	-1038.35	125.38	1149.94	0	-276.15	2	-389.91	2	-306.89	2.35	-324.98
60	61	74.25	-1038.55	150.00	949.94	0	-413.43	2	-337.22	2	-269.22	2.35	-264.14
61	61	74.25	-1038.55	150.00	949.94	0	-267.86	2	-450.35	2	-371.80	2.35	-399.56
61	62	75.70	-1038.73	174.60	714.25	0	-425.57	2	-367.73	2	-307.97	2.35	-305.79
62	62	75.70	-750.12	146.78	845.89	0	-87.35	2	-380.33	2	-312.08	2.35	-352.55
62	63	77.15	-750.12	144.31	645.21	0	-221.60	2	-310.09	2	-257.65	2.35	-272.55
63	63	77.15	-750.12	144.31	645.21	0	-222.23	2	-307.84	2	-257.65	2.35	-273.28
63	64	78.60	-750.26	165.11	420.86	0	-372.78	2	-228.99	2	-196.73	2.35	-183.72
64	64	78.60	-404.88	165.13	588.70	0	40.50	2	-248.82	2	-205.03	2.35	-244.61
64	65	80.05	-404.88	185.94	334.18	0	-129.83	2	-159.49	2	-136.05	2.35	-143.22
65	65	80.05	-404.88	185.94	334.18	0	-129.83	2	-159.49	2	-136.05	2.35	-143.22
65	66	80.50	-404.88	192.39	249.07	0	-186.79	2	-129.62	2	-112.98	2.35	-109.31
66	66	80.50	-692.34	192.39	796.96	0	-32.51	2	-399.53	2	-299.62	2.35	-342.05
66	67	81.50	-692.34	212.18	594.68	0	-167.90	2	-328.46	2	-244.81	2.35	-261.49
67	1067	81.50	-692.34	-231.59	594.68	0	-167.90	2	-328.46	2	-244.81	2.35	-261.49
67	68	82.50	-692.34	-211.79	816.39	0	-19.52	2	-406.29	2	-304.91	2.35	-349.80
68	68	82.50	-462.42	-211.79	239.37	0	-243.40	2	-132.64	2	-116.60	2.35	-106.50
68	69	83.08	-462.42	-203.55	358.77	0	-163.50	2	-174.51	2	-148.97	2.35	-154.07
69	69	83.08	-462.42	-203.55	358.77	0	-163.50	2	-174.51	2	-148.97	2.35	-154.07
69	70	84.65	-462.42	-180.95	661.59	0	39.13	2	-280.70	2	-231.07	2.35	-274.73
70	70	84.65	-865.35	-180.94	465.78	0	-442.96	2	-257.59	2	-221.41	2.35	-203.73
70	71	86.23	-865.21	-158.36	733.00	0	-263.74	2	-351.41	2	-293.98	2.35	-310.38
71	71	86.23	-865.21	-158.36	733.00	0	-263.19	2	-353.38	2	-293.98	2.35	-309.74
71	72	87.80	-865.21	-159.98	996.62	0	-87.05	2	-444.83	2	-365.68	2.35	-415.06
72	72	87.80	-1268.90	-191.26	812.26	0	-560.68	2	-426.94	2	-359.69	2.35	-349.31
72	73	89.38	-1268.71	-164.54	1092.87	0	-372.90	2	-525.33	2	-435.72	2.35	-460.96
73	73	89.38	-1268.71	-164.54	1092.87	0	-551.98	2	-392.82	2	-315.99	2.35	-301.84
73	74	90.95	-1268.50	-137.81	1331.42	0	-388.23	2	-455.69	2	-360.95	2.35	-374.41
74	74	90.95	-1267.98	-106.53	1331.24	0	-388.75	2	-455.30	2	-360.60	2.35	-373.94
74	75	92.53	-1267.98	-79.80	1477.96	0	-288.27	2	-492.93	2	-388.42	2.35	-418.85
75	75	92.53	-1267.98	-79.80	1477.96	0	-288.27	2	-492.93	2	-388.42	2.35	-418.85
75	76	94.10	-1267.98	-53.08	1582.62	0	-216.60	2	-519.77	2	-408.27	2.35	-450.87
76	76	94.10	-1267.98	-53.08	1582.62	0	-216.60	2	-519.77	2	-408.27	2.35	-450.87
76	77	95.68	-1267.98	-26.35	1645.18	0	-173.76	2	-535.82	2	-420.13	2.35	-470.01

CÁLCULO TENSIONAL

Hipótesis de cálculo:

FREC1.GRAD.Tinf.MZ+

...cuentes con gradiente. Dominante GRAD.Tinf

1.1 ...vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT

Coef. exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1267.98	-26.35	1645.18	0	-173.76	2	-535.82	2	-420.13	2.35	-470.01
77	78	97.25	-1267.98	0.38	1665.63	0	-159.74	2	-541.08	2	-424.01	2.35	-476.26
78	78	97.25	-1267.98	0.38	1665.63	0	-159.74	2	-541.08	2	-424.01	2.35	-476.26
78	79	98.83	-1267.98	27.10	1644.02	0	-174.54	2	-535.56	2	-419.91	2.35	-469.63
79	79	98.83	-1267.98	27.10	1644.02	0	-174.54	2	-535.56	2	-419.91	2.35	-469.63
79	80	100.40	-1267.98	53.83	1580.26	0	-218.19	2	-519.24	2	-407.83	2.35	-450.10
80	80	100.40	-1267.98	53.83	1580.26	0	-218.19	2	-519.24	2	-407.83	2.35	-450.10
80	81	101.98	-1267.98	80.55	1474.47	0	-290.64	2	-492.14	2	-387.77	2.35	-417.70
81	81	101.98	-1267.98	80.55	1474.47	0	-290.64	2	-492.14	2	-387.77	2.35	-417.70
81	82	103.55	-1257.98	107.27	1326.56	0	-391.92	2	-454.25	2	-359.72	2.35	-372.41
82	82	103.55	-1268.50	138.56	1326.74	0	-391.40	2	-454.84	2	-360.07	2.35	-372.88
82	83	105.13	-1268.70	165.28	1087.07	0	-555.91	2	-391.51	2	-314.90	2.35	-299.94
83	83	105.13	-1268.70	165.28	1087.07	0	-376.74	2	-523.46	2	-434.15	2.35	-458.50
83	84	106.70	-1268.88	192.01	805.27	0	-565.30	2	-424.69	2	-357.80	2.35	-346.34
84	84	106.70	-865.19	160.72	989.63	0	-91.66	2	-442.58	2	-363.79	2.35	-412.10
84	85	108.28	-865.19	157.95	737.48	0	-260.22	2	-354.80	2	-295.29	2.35	-311.43
85	85	108.28	-865.19	157.95	737.48	0	-260.74	2	-352.90	2	-295.29	2.35	-312.06
85	86	109.85	-865.33	180.55	470.91	0	-439.53	2	-259.31	2	-222.92	2.35	-205.65
86	86	109.85	-462.42	180.57	666.72	0	42.55	2	-282.42	2	-232.57	2.35	-276.65
86	87	111.43	-462.42	203.16	364.55	0	-159.65	2	-176.44	2	-150.66	2.35	-156.23
87	87	111.43	-462.42	203.16	364.55	0	-159.65	2	-176.44	2	-150.66	2.35	-156.23
87	88	112.00	-462.42	211.41	245.34	0	-239.42	2	-134.63	2	-118.35	2.35	-108.73
88	88	112.00	-692.34	211.41	822.36	0	-15.54	2	-408.28	2	-306.66	2.35	-352.03
88	89	113.00	-692.34	231.20	601.07	0	-163.64	2	-330.59	2	-246.68	2.35	-263.87
89	1089	113.00	-692.34	-232.81	601.07	0	-163.64	2	-330.59	2	-246.68	2.35	-263.87
89	90	114.00	-692.34	-213.02	824.03	0	-14.44	2	-408.80	2	-307.13	2.35	-352.73
90	90	114.00	-462.42	-213.02	247.02	0	-238.32	2	-135.16	2	-118.82	2.35	-109.42
90	91	114.58	-462.42	-204.77	367.10	0	-157.97	2	-177.23	2	-151.38	2.35	-157.30
91	91	114.58	-462.42	-204.77	367.10	0	-157.97	2	-177.23	2	-151.38	2.35	-157.30
91	92	116.15	-462.42	-182.18	671.84	0	45.92	2	-284.01	2	-234.00	2.35	-278.78
92	92	116.15	-865.34	-182.18	476.04	0	-436.14	2	-260.91	2	-224.36	2.35	-207.80
92	93	117.73	-865.20	-159.58	745.18	0	-255.66	2	-355.30	2	-297.46	2.35	-315.28
93	93	117.73	-865.20	-159.58	745.18	0	-255.14	2	-357.26	2	-297.45	2.35	-314.62
93	94	119.30	-865.20	-162.43	1000.35	0	-84.58	2	-446.01	2	-366.79	2.35	-416.54
94	94	119.30	-1268.90	-193.71	816.00	0	-558.22	2	-428.13	2	-360.81	2.35	-350.79
94	95	120.88	-1268.71	-166.96	1100.46	0	-367.89	2	-527.75	2	-437.90	2.35	-464.05
95	95	120.88	-1268.71	-166.96	1100.46	0	-546.85	2	-394.50	2	-317.52	2.35	-304.20
95	96	122.45	-1268.53	-140.25	1342.85	0	-380.51	2	-458.23	2	-363.22	2.35	-378.01
96	96	122.45	-1267.98	-108.97	1342.67	0	-381.02	2	-457.84	2	-362.86	2.35	-377.53
96	97	124.03	-1267.98	-82.24	1493.26	0	-277.92	2	-496.32	2	-391.43	2.35	-423.68
97	97	124.03	-1267.98	-82.24	1493.26	0	-277.92	2	-496.32	2	-391.43	2.35	-423.68
97	98	125.60	-1267.98	-55.52	1601.75	0	-203.65	2	-524.02	2	-412.02	2.35	-456.94
98	98	125.60	-1267.98	-55.52	1601.75	0	-203.65	2	-524.02	2	-412.02	2.35	-456.94
98	99	127.18	-1267.98	-28.79	1668.15	0	-158.21	2	-540.93	2	-424.62	2.35	-477.31
99	99	127.18	-1267.98	-28.79	1668.15	0	-158.21	2	-540.93	2	-424.62	2.35	-477.31
99	100	128.75	-1267.98	-2.07	1692.46	0	-141.59	2	-547.05	2	-429.24	2.35	-484.80
100	100	128.75	-1267.98	-2.07	1692.46	0	-141.59	2	-547.05	2	-429.24	2.35	-484.80
100	101	130.33	-1267.98	24.65	1674.70	0	-153.78	2	-542.39	2	-425.89	2.35	-479.40
101	101	130.33	-1267.98	24.65	1674.70	0	-153.78	2	-542.39	2	-425.89	2.35	-479.40
101	102	131.90	-1267.98	51.38	1614.82	0	-194.81	2	-526.93	2	-414.55	2.35	-461.11
102	102	131.90	-1267.98	51.38	1614.82	0	-194.81	2	-526.93	2	-414.55	2.35	-461.11
102	103	133.48	-1267.98	78.10	1512.86	0	-264.66	2	-500.69	2	-395.23	2.35	-429.94
103	103	133.48	-1267.98	78.10	1512.86	0	-264.66	2	-500.69	2	-395.23	2.35	-429.94
103	104	135.05	-1267.98	104.83	1368.80	0	-363.33	2	-463.66	2	-367.92	2.35	-385.89
104	104	135.05	-1268.48	136.12	1368.99	0	-362.80	2	-464.04	2	-368.27	2.35	-386.35
104	105	136.63	-1268.67	162.85	1133.13	0	-524.73	2	-401.75	2	-323.83	2.35	-314.63
105	105	136.63	-1268.67	162.85	1133.13	0	-346.29	2	-538.18	2	-446.96	2.35	-477.60
105	106	138.20	-1268.88	189.58	855.18	0	-532.32	2	-440.65	2	-371.68	2.35	-367.05
106	106	138.20	-865.20	158.28	1039.54	0	-58.69	2	-458.54	2	-377.67	2.35	-432.81
106	107	139.78	-865.20	156.74	776.53	0	-234.43	2	-367.28	2	-306.15	2.35	-327.76
107	107	139.78	-865.20	156.74	776.53	0	-235.10	2	-364.92	2	-306.14	2.35	-328.52
107	108	141.35	-865.34	179.32	511.88	0	-412.63	2	-271.90	2	-234.29	2.35	-222.93
108	108	141.35	-462.42	179.35	707.68	0	69.47	2	-295.02	2	-243.96	2.35	-293.95
108	109	142.93	-462.42	201.95	407.43	0	-131.47	2	-189.63	2	-162.57	2.35	-174.36
109	109	142.93	-462.42	201.95	407.43	0	-131.47	2	-189.63	2	-162.57	2.35	-174.36
109	110	143.50	-462.42	210.19	288.91	0	-210.79	2	-148.03	2	-130.45	2.35	-127.15
110	110	143.50	-692.34	210.19	865.93	0	13.09	2	-421.67	2	-318.76	2.35	-370.46
110	111	144.50	-692.34	229.98	645.89	0	-134.19	2	-344.36	2	-259.13	2.35	-282.84
111	1111	144.50	-692.34	-165.97	645.89	0	-134.19	2	-344.36	2	-259.13	2.35	-282.84
111	112	145.50	-692.34	-146.18	801.98	0	-29.60	2	-399.64	2	-301.30	2.35	-344.79
	112	145.50	-376.11	-146.18	268.64	0	-149.09	2	-131.60	2	-115.49	2.35	-117.32
112	113	145.68	-376.11	-143.68	293.99	0	-132.10	2	-140.57	2	-122.34	2.35	-127.38
113	113	145.68	-376.11	-143.68	293.99	0	-132.10	2	-140.57	2	-122.34	2.35	-127.38
113	114	146.85	-376.11	-126.82	452.91	0	-25.62	2	-196.84	2	-165.27	2.35	-190.45
114	114	146.85	-692.75	-126.80	299.06	0	-404.74	2	-178.56	2	-157.56	2.35	-134.48
114	115	148.03	-692.61	-109.95	438.17	0	-311.10	2	-227.98	2	-195.24	2.35	-189.84

CÁLCULO TENSIONAL

Hipótesis de cálculo:

FREC1.GRAD.Tinf.MZ+

...recuentes con gradiente. Dominante GRAD.Tinf

1.1 ...vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT

Coef. exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-692.61	-109.95	438.17	0	-310.10	2	-230.88	2	-195.33	2.35	-189.06
115	116	149.20	-692.61	-93.09	557.46	0	-230.18	2	-273.08	2	-227.52	2.35	-236.40
116	116	149.20	-693.18	-115.99	557.62	0	-229.69	2	-273.61	2	-228.02	2.35	-237.02
116	117	150.38	-693.29	-121.79	692.42	0	-139.42	2	-321.64	2	-264.36	2.35	-290.39
117	117	150.38	-693.29	-121.79	692.42	0	-235.49	2	-241.08	2	-191.00	2.35	-194.51
117	118	151.55	-693.11	-101.84	824.04	0	-145.14	2	-275.83	2	-215.71	2.35	-234.41
118	118	151.55	-692.58	-78.95	823.89	0	-145.64	2	-275.45	2	-215.36	2.35	-233.94
118	119	152.73	-692.58	-59.01	904.94	0	-90.11	2	-296.35	2	-230.66	2.35	-258.64
119	119	152.73	-692.58	-59.01	904.94	0	-90.11	2	-296.35	2	-230.66	2.35	-258.64
119	120	153.90	-692.58	-39.07	962.57	0	-50.61	2	-311.25	2	-241.52	2.35	-276.18
120	120	153.90	-692.58	-39.07	962.57	0	-50.61	2	-311.25	2	-241.52	2.35	-276.18
120	121	155.08	-692.58	-19.14	996.76	0	-27.16	2	-320.14	2	-247.94	2.35	-286.53
121	121	155.08	-692.58	-19.14	996.76	0	-27.16	2	-320.14	2	-247.94	2.35	-286.53
121	122	156.25	-692.58	0.80	1007.53	0	-19.75	2	-323.03	2	-249.92	2.35	-289.72
122	122	156.25	-692.58	0.80	1007.53	0	-19.75	2	-323.03	2	-249.92	2.35	-289.72
122	123	157.43	-692.58	20.74	994.86	0	-28.39	2	-319.91	2	-247.45	2.35	-285.73
123	123	157.43	-692.58	20.74	994.86	0	-28.39	2	-319.91	2	-247.45	2.35	-285.73
123	124	158.60	-692.58	40.68	958.82	0	-53.04	2	-310.80	2	-240.55	2.35	-274.58
124	124	158.60	-692.58	40.68	958.82	0	-53.04	2	-310.80	2	-240.55	2.35	-274.58
124	125	159.78	-692.58	60.61	899.30	0	-93.77	2	-295.67	2	-229.19	2.35	-256.25
125	125	159.78	-692.58	60.61	899.30	0	-93.77	2	-295.67	2	-229.19	2.35	-256.25
125	126	160.95	-692.58	80.55	816.33	0	-150.55	2	-274.54	2	-213.40	2.35	-230.74
126	126	160.95	-692.58	80.55	816.33	0	-150.55	2	-274.54	2	-213.40	2.35	-230.74
126	127	162.13	-692.58	100.49	709.98	0	-223.34	2	-247.41	2	-193.16	2.35	-198.07
127	127	162.13	-692.58	100.49	709.98	0	-223.34	2	-247.41	2	-193.16	2.35	-198.07
127	128	163.30	-692.58	120.42	580.19	0	-312.19	2	-214.27	2	-168.48	2.35	-158.23
128	128	163.30	-692.58	120.42	580.19	0	-312.19	2	-214.27	2	-168.48	2.35	-158.23
128	129	164.48	-692.58	140.36	426.97	0	-417.08	2	-175.13	2	-139.36	2.35	-111.21
129	129	164.48	-692.58	140.36	426.97	0	-417.08	2	-175.13	2	-139.36	2.35	-111.21
129	130	165.65	-692.58	160.30	250.34	0	-538.01	2	-129.98	2	-105.80	2.35	-57.02
130	130	165.65	-376.11	160.30	379.37	0	-124.76	2	-136.03	2	-103.33	2.35	-105.00
130	131	166.83	-376.11	180.25	179.29	0	-261.74	2	-84.88	2	-65.32	2.35	-43.64
131	131	166.83	-376.11	180.25	179.29	0	-261.74	2	-84.88	2	-65.32	2.35	-43.64
131	132	167.00	-376.11	183.21	147.47	0	-283.53	2	-76.74	2	-59.28	2.35	-33.88
132	132	167.00	0.00	183.21	195.03	0	133.56	2	-50.02	2	-37.02	2.35	-59.77
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:

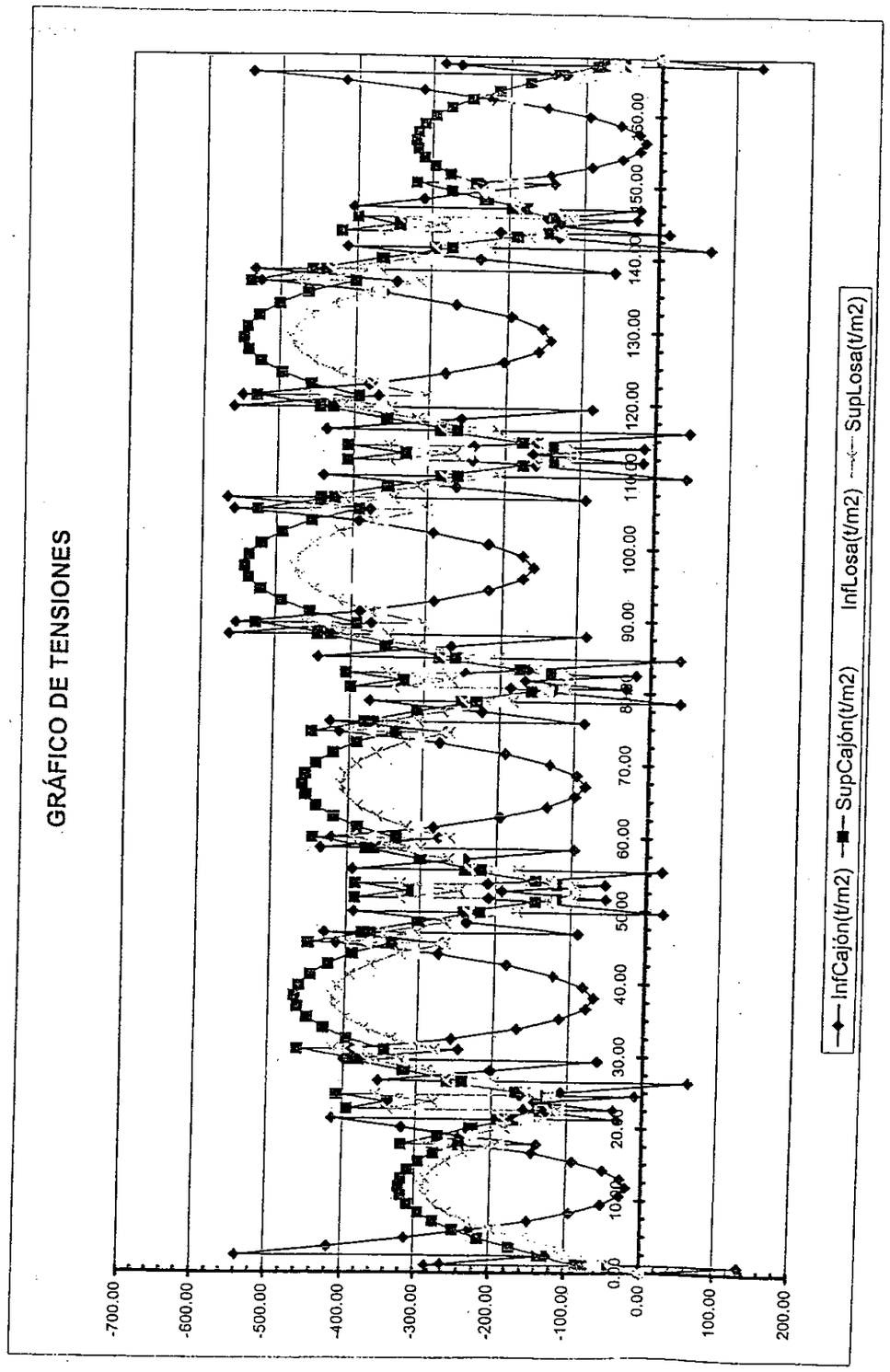
FREC1.IPF75B.EnvTrenGen.MZ+.Tinf.MZ+

Frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+. Tinf

1. 1]Pvigas + [.85; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [7; 1.3]CMBAL + [1; 1]CMRESTO + [9; .5]GRAD + [0; .732]IPF75B.MZ+ + [0; .3]PAS

nef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-271.91	287.52	0	196.13	2	-70.61	2	-54.89	2.35	-90.29
2	2	1.00	-376.11	-271.91	239.95	0	-220.96	2	-97.32	2	-77.15	2.35	-64.40
2	3	1.18	-376.11	-267.34	286.84	0	-188.98	2	-108.81	2	-86.11	2.35	-79.13
3	3	1.18	-376.11	-267.34	286.84	0	-188.98	2	-108.81	2	-86.11	2.35	-79.13
3	4	2.35	-376.11	-237.10	580.67	0	11.43	2	-180.82	2	-142.23	2.35	-171.43
4	4	2.35	-692.58	-237.10	451.63	0	-401.82	2	-174.77	2	-144.70	2.35	-123.45
4	5	3.53	-692.58	-206.91	708.40	0	-226.68	2	-237.75	2	-193.74	2.35	-204.08
5	5	3.53	-692.58	-206.91	708.40	0	-226.68	2	-237.75	2	-193.74	2.35	-204.08
5	6	4.70	-692.58	-176.57	930.88	0	-74.93	2	-292.30	2	-236.25	2.35	-273.96
6	6	4.70	-692.58	-176.57	930.88	0	-74.93	2	-292.30	2	-236.25	2.35	-273.96
6	7	5.88	-692.58	-146.14	1118.36	0	52.95	2	-338.28	2	-272.07	2.35	-332.85
7	7	5.88	-692.58	-146.14	1118.36	0	52.95	2	-338.28	2	-272.07	2.35	-332.85
7	8	7.05	-692.58	-110.90	1269.45	0	156.01	2	-375.36	2	-300.95	2.35	-380.29
8	8	7.05	-692.58	-110.90	1269.45	0	156.01	2	-375.36	2	-300.95	2.35	-380.29
8	9	8.23	-692.58	-80.71	1384.31	0	234.37	2	-403.60	2	-322.91	2.35	-416.33
9	9	8.23	-692.58	-80.71	1384.31	0	234.37	2	-403.60	2	-322.91	2.35	-416.33
9	10	9.40	-692.58	-50.39	1464.26	0	288.92	2	-423.27	2	-338.21	2.35	-441.42
10	10	9.40	-692.58	-50.39	1464.26	0	288.92	2	-423.27	2	-338.21	2.35	-441.42
10	11	10.58	-692.58	-25.09	1509.02	0	319.46	2	-434.32	2	-346.79	2.35	-455.45
11	11	10.58	-692.58	-25.09	1509.02	0	319.46	2	-434.32	2	-346.79	2.35	-455.45
11	12	11.75	-692.58	9.79	1516.53	0	324.62	2	-436.29	2	-348.26	2.35	-457.74
12	12	11.75	-692.58	9.79	1516.53	0	324.62	2	-436.29	2	-348.26	2.35	-457.74
12	13	12.93	-692.58	36.02	1489.57	0	306.25	2	-429.80	2	-343.15	2.35	-449.22
13	13	12.93	-692.58	36.02	1489.57	0	306.25	2	-429.80	2	-343.15	2.35	-449.22
13	14	14.10	-692.58	70.32	1426.84	0	263.49	2	-414.56	2	-331.21	2.35	-429.46
14	14	14.10	-692.58	70.32	1426.84	0	263.49	2	-414.56	2	-331.21	2.35	-429.46
14	15	15.28	-692.58	96.20	1329.72	0	197.28	2	-390.88	2	-312.72	2.35	-398.91
15	15	15.28	-692.58	96.20	1329.72	0	197.28	2	-390.88	2	-312.72	2.35	-398.91
15	16	16.45	-692.58	126.40	1196.19	0	106.24	2	-358.30	2	-287.27	2.35	-356.91
16	16	16.45	-693.67	149.31	1196.34	0	106.56	2	-358.87	2	-287.78	2.35	-357.53
16	17	17.63	-693.98	179.64	999.70	0	-27.82	2	-309.68	2	-250.54	2.35	-296.23
17	17	17.63	-693.98	179.64	999.70	0	63.24	2	-420.02	2	-349.74	2.35	-421.75
17	18	18.80	-693.99	184.80	778.06	0	-84.41	2	-344.29	2	-289.34	2.35	-331.57
18	18	18.80	-692.61	161.89	777.91	0	-84.65	2	-343.50	2	-288.62	2.35	-330.73
18	19	19.98	-692.61	184.57	570.37	0	-222.83	2	-273.11	2	-231.95	2.35	-245.79
19	19	19.98	-692.61	184.57	570.37	0	-223.83	2	-270.21	2	-231.85	2.35	-246.57
19	20	21.15	-692.75	161.49	372.45	0	-356.30	2	-202.00	2	-177.85	2.35	-166.15
20	20	21.15	-376.11	161.52	526.29	0	22.81	2	-220.28	2	-185.56	2.35	-222.12
20	21	22.33	-376.11	158.33	341.84	0	-100.53	2	-155.86	2	-135.54	2.35	-148.19
21	21	22.33	-376.11	158.33	341.84	0	-100.53	2	-155.86	2	-135.54	2.35	-148.19
21	22	22.50	-376.11	154.02	314.73	0	-118.67	2	-146.33	2	-128.20	2.35	-137.38
22	22	22.50	-692.34	154.02	848.07	0	0.82	2	-414.36	2	-314.02	2.35	-364.85
22	23	23.50	-692.34	164.14	688.88	0	-105.83	2	-358.10	2	-270.98	2.35	-301.59
23	1023	23.50	-692.34	-196.27	688.88	0	-105.83	2	-358.10	2	-270.98	2.35	-301.59
23	24	24.50	-692.34	-190.05	879.46	0	21.84	2	-425.44	2	-322.54	2.35	-377.17
24	24	24.50	-404.88	-190.05	331.56	0	-132.44	2	-155.54	2	-135.90	2.35	-144.42
24	25	24.95	-404.88	-190.07	415.12	0	-76.51	2	-184.91	2	-158.53	2.35	-177.67
25	25	24.95	-404.88	-190.07	415.12	0	-76.51	2	-184.91	2	-158.53	2.35	-177.67
25	26	26.40	-404.88	-184.81	684.48	0	103.63	2	-279.00	2	-231.63	2.35	-285.40
26	26	26.40	-750.26	-184.79	516.64	0	-309.67	2	-259.17	2	-223.32	2.35	-224.50
26	27	27.85	-750.13	-197.79	804.24	0	-117.36	2	-358.25	2	-301.79	2.35	-341.03
27	27	27.85	-750.13	-197.79	804.24	0	-116.60	2	-360.90	2	-301.80	2.35	-340.18
27	28	29.30	-750.13	-224.00	1114.32	0	89.88	2	-466.09	2	-386.59	2.35	-466.63
28	28	29.30	-1039.45	-251.80	982.68	0	-248.55	2	-453.71	2	-382.67	2.35	-420.05
28	29	30.75	-1039.13	-214.26	1324.15	0	-20.95	2	-570.07	2	-475.82	2.35	-558.91
29	29	30.75	-1039.13	-214.26	1324.15	0	-160.44	2	-420.68	2	-341.73	2.35	-387.43
29	30	32.20	-1038.84	-176.55	1611.65	0	36.07	2	-492.81	2	-396.29	2.35	-477.13
30	30	32.20	-1037.82	-148.73	1611.49	0	35.72	2	-492.27	2	-395.80	2.35	-476.53
30	31	33.65	-1037.82	-111.86	1802.86	0	166.23	2	-539.07	2	-432.32	2.35	-536.74
31	31	33.65	-1037.82	-111.86	1802.86	0	166.23	2	-539.07	2	-432.32	2.35	-536.74
31	32	35.10	-1037.82	-79.03	1941.20	0	260.56	2	-572.86	2	-458.73	2.35	-580.30
32	32	35.10	-1037.82	-79.03	1941.20	0	260.56	2	-572.86	2	-458.73	2.35	-580.30
32	33	36.55	-1037.82	-36.60	2025.47	0	318.01	2	-593.42	2	-474.81	2.35	-606.87
33	33	36.55	-1037.82	-36.60	2025.47	0	318.01	2	-593.42	2	-474.81	2.35	-606.87
33	34	38.00	-1037.82	-3.77	2053.75	0	337.29	2	-600.32	2	-480.20	2.35	-615.82
34	34	38.00	-1037.82	-3.77	2053.75	0	337.29	2	-600.32	2	-480.20	2.35	-615.82
34	35	39.45	-1037.82	33.10	2030.56	0	321.45	2	-594.56	2	-475.78	2.35	-608.64
35	35	39.45	-1037.82	33.10	2030.56	0	321.45	2	-594.56	2	-475.78	2.35	-608.64
35	36	40.90	-1037.82	75.52	1951.32	0	267.40	2	-575.12	2	-460.65	2.35	-583.81
36	36	40.90	-1037.82	75.52	1951.32	0	267.40	2	-575.12	2	-460.65	2.35	-583.81
36	37	42.35	-1037.82	108.35	1818.11	0	176.54	2	-542.47	2	-435.23	2.35	-542.03
37	37	42.35	-1037.82	108.35	1818.11	0	176.54	2	-542.47	2	-435.23	2.35	-542.03
37	38	43.80	-1037.82	145.22	1631.79	0	49.46	2	-496.79	2	-399.66	2.35	-483.56
38	38	43.80	-1038.81	173.04	1631.96	0	49.82	2	-497.32	2	-400.15	2.35	-484.16
38	39	45.25	-1039.11	210.75	1349.53	0	-143.27	2	-426.33	2	-346.56	2.35	-396.22



CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.IPF75B.EnvTrenGen.MZ+.Tinf.MZ+

? ntes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+. Tinf

. .. 1)\ ..gas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ+ + [0; .3]PAS

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1039.11	210.75	1349.53	0	-4.21	2	-578.18	2	-482.77	2.35	-570.18
39	40	46.70	-1039.45	248.31	1013.16	0	-228.45	2	-463.45	2	-391.03	2.35	-433.59
40	40	46.70	-750.11	220.48	1144.79	0	109.99	2	-475.82	2	-394.94	2.35	-480.15
40	41	48.15	-750.11	210.47	824.92	0	-102.96	2	-367.50	2	-307.42	2.35	-349.62
41	41	48.15	-750.11	210.47	824.92	0	-103.54	2	-365.30	2	-307.43	2.35	-350.36
41	42	49.60	-750.26	199.06	526.37	0	-303.09	2	-262.79	2	-225.91	2.35	-229.23
42	42	49.60	-404.88	199.08	694.20	0	110.16	2	-282.60	2	-234.19	2.35	-290.09
42	43	51.05	-404.88	196.99	411.43	0	-78.82	2	-184.29	2	-157.35	2.35	-176.71
43	43	51.05	-404.88	196.99	411.43	0	-78.82	2	-184.29	2	-157.35	2.35	-176.71
43	44	51.50	-404.88	197.01	324.13	0	-137.22	2	-153.73	2	-133.68	2.35	-141.89
44	44	51.50	-692.34	197.01	872.02	0	17.06	2	-423.64	2	-320.32	2.35	-374.64
44	45	52.50	-692.34	203.26	674.08	0	-115.46	2	-353.98	2	-266.70	2.35	-295.97
45	1045	52.50	-692.34	-195.86	674.08	0	-115.46	2	-353.98	2	-266.70	2.35	-295.97
45	46	53.50	-692.34	-189.63	864.49	0	12.09	2	-421.25	2	-318.23	2.35	-371.43
46	46	53.50	-404.88	-189.63	316.60	0	-142.19	2	-151.34	2	-131.59	2.35	-138.69
46	47	53.95	-404.88	-189.64	400.43	0	-86.08	2	-180.80	2	-154.30	2.35	-172.03
47	47	53.95	-404.88	-189.64	400.43	0	-86.08	2	-180.80	2	-154.30	2.35	-172.03
47	48	55.40	-404.88	-194.09	672.88	0	96.09	2	-275.84	2	-228.27	2.35	-281.01
48	48	55.40	-750.26	-194.07	505.05	0	-317.17	2	-256.01	2	-219.99	2.35	-220.13
?	49	56.85	-750.12	-202.25	799.16	0	-120.56	2	-357.14	2	-300.27	2.35	-339.37
49	49	56.85	-750.12	-202.25	799.16	0	-119.98	2	-359.28	2	-300.27	2.35	-338.67
49	50	58.30	-750.12	-224.93	1114.07	0	89.70	2	-466.00	2	-386.41	2.35	-467.15
50	50	58.30	-1039.48	-252.74	982.44	0	-248.74	2	-453.64	2	-382.50	2.35	-420.59
50	51	59.75	-1039.16	-215.19	1325.24	0	-20.27	2	-570.43	2	-476.03	2.35	-559.95
51	51	59.75	-1039.16	-215.19	1325.24	0	-159.72	2	-420.94	2	-341.87	2.35	-388.33
51	52	61.20	-1038.84	-177.48	1614.18	0	37.77	2	-493.37	2	-396.71	2.35	-478.44
52	52	61.20	-1037.82	-149.66	1614.02	0	37.43	2	-492.83	2	-396.22	2.35	-477.83
52	53	62.65	-1037.82	-112.80	1806.72	0	168.83	2	-539.93	2	-433.01	2.35	-538.42
53	53	62.65	-1037.82	-112.80	1806.72	0	168.83	2	-539.93	2	-433.01	2.35	-538.42
53	54	64.10	-1037.82	-79.96	1946.43	0	264.09	2	-574.03	2	-459.69	2.35	-582.37
54	54	64.10	-1037.82	-79.96	1946.43	0	264.09	2	-574.03	2	-459.69	2.35	-582.37
54	55	65.55	-1037.82	-37.55	2032.10	0	322.49	2	-594.90	2	-476.06	2.35	-609.34
55	55	65.55	-1037.82	-37.55	2032.10	0	322.49	2	-594.90	2	-476.06	2.35	-609.34
55	56	67.00	-1037.82	-4.71	2061.75	0	342.70	2	-602.10	2	-481.73	2.35	-618.68
56	56	67.00	-1037.82	-4.71	2061.75	0	342.70	2	-602.10	2	-481.73	2.35	-618.68
56	57	68.45	-1037.82	32.15	2039.95	0	327.81	2	-596.64	2	-477.59	2.35	-611.89
57	57	68.45	-1037.82	32.15	2039.95	0	327.81	2	-596.64	2	-477.59	2.35	-611.89
57	58	69.90	-1037.82	74.56	1962.10	0	274.69	2	-577.51	2	-462.74	2.35	-587.46
58	58	69.90	-1037.82	74.56	1962.10	0	274.69	2	-577.51	2	-462.74	2.35	-587.46
58	59	71.35	-1037.82	107.41	1830.26	0	184.76	2	-545.16	2	-437.59	2.35	-546.07
59	59	71.35	-1037.82	107.41	1830.26	0	184.76	2	-545.16	2	-437.59	2.35	-546.07
59	60	72.80	-1037.82	144.27	1645.34	0	58.62	2	-499.80	2	-402.32	2.35	-488.01
60	60	72.80	-1038.79	172.07	1645.50	0	58.98	2	-500.32	2	-402.79	2.35	-488.59
60	61	74.25	-1039.13	209.79	1364.40	0	-133.21	2	-429.63	2	-349.48	2.35	-401.04
)	61	74.25	-1039.13	209.79	1364.40	0	5.60	2	-582.92	2	-486.95	2.35	-576.43
	62	75.70	-1039.42	247.34	1029.43	0	-217.69	2	-468.63	2	-395.60	2.35	-440.36
62	62	75.70	-750.12	219.52	1161.07	0	120.74	2	-481.01	2	-399.53	2.35	-486.93
62	63	77.15	-750.12	207.68	851.76	0	-85.23	2	-376.08	2	-314.96	2.35	-360.61
63	63	77.15	-750.12	207.68	851.76	0	-85.86	2	-373.82	2	-314.96	2.35	-361.35
63	64	78.60	-750.26	193.00	553.05	0	-285.51	2	-271.21	2	-233.41	2.35	-240.08
64	64	78.60	-404.88	193.02	720.89	0	127.77	2	-291.04	2	-241.70	2.35	-300.97
64	65	80.05	-404.88	190.99	443.66	0	-57.55	2	-194.47	2	-166.42	2.35	-189.90
65	65	80.05	-404.88	190.99	443.66	0	-57.55	2	-194.47	2	-166.42	2.35	-189.90
65	66	80.50	-404.88	191.00	358.69	0	-114.42	2	-164.64	2	-143.39	2.35	-156.04
66	66	80.50	-692.34	191.00	906.58	0	39.87	2	-434.54	2	-330.04	2.35	-388.79
66	67	81.50	-692.34	197.27	714.39	0	-88.86	2	-366.70	2	-278.03	2.35	-312.53
67	1067	81.50	-692.34	-215.19	714.39	0	-88.86	2	-366.70	2	-278.03	2.35	-312.53
67	68	82.50	-692.34	-210.78	923.52	0	51.21	2	-440.51	2	-334.63	2.35	-395.48
68	68	82.50	-462.42	-210.78	346.51	0	-172.66	2	-166.87	2	-146.32	2.35	-152.18
68	69	83.08	-462.42	-210.63	465.16	0	-93.26	2	-208.50	2	-178.48	2.35	-199.43
69	69	83.08	-462.42	-210.63	465.16	0	-93.26	2	-208.50	2	-178.48	2.35	-199.43
69	70	84.65	-462.42	-213.16	792.26	0	125.40	2	-322.45	2	-267.32	2.35	-330.44
70	70	84.65	-865.35	-213.15	596.45	0	-356.69	2	-299.34	2	-257.67	2.35	-259.44
70	71	86.23	-865.21	-227.25	946.23	0	-122.96	2	-419.52	2	-353.14	2.35	-401.29
71	71	86.23	-865.21	-227.25	946.23	0	-122.41	2	-421.49	2	-353.14	2.35	-400.65
71	72	87.80	-865.21	-245.81	1334.22	0	135.84	2	-552.68	2	-459.34	2.35	-558.99
72	72	87.80	-1269.65	-277.09	1149.86	0	-338.03	2	-535.02	2	-453.56	2.35	-493.44
72	73	89.38	-1269.34	-236.40	1550.13	0	-71.20	2	-671.60	2	-562.76	2.35	-656.09
73	73	89.38	-1269.34	-236.40	1550.13	0	-242.83	2	-494.78	2	-404.54	2.35	-452.87
??	74	90.95	-1268.97	-191.01	1888.55	0	-11.45	2	-579.81	2	-468.75	2.35	-558.35
	74	90.95	-1267.98	-159.73	1888.37	0	-11.83	2	-579.27	2	-468.27	2.35	-557.74
74	75	92.53	-1267.98	-119.00	2112.08	0	140.74	2	-634.02	2	-510.97	2.35	-628.05
75	75	92.53	-1267.98	-119.00	2112.08	0	140.74	2	-634.02	2	-510.97	2.35	-628.05
75	76	94.10	-1267.98	-83.52	2271.11	0	249.20	2	-672.96	2	-541.32	2.35	-678.01
76	76	94.10	-1267.98	-83.52	2271.11	0	249.20	2	-672.96	2	-541.32	2.35	-678.01
76	77	95.68	-1267.98	-42.89	2367.22	0	314.74	2	-696.48	2	-559.67	2.35	-708.22

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.IPF75B.EnvTrenGen.MZ+.Tinf.MZ+

Frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+. Tinf

1)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ+ + [0; .3]PAS

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1267.98	-42.89	2367.22	0	314.74	2	-696.48	2	-559.67	2.35	-708.22
77	78	97.25	-1267.98	-1.92	2397.64	0	335.49	2	-703.96	2	-565.48	2.35	-717.76
78	78	97.25	-1267.98	-1.92	2397.64	0	335.49	2	-703.96	2	-565.48	2.35	-717.76
78	79	98.83	-1267.98	43.29	2366.62	0	314.34	2	-696.35	2	-559.56	2.35	-708.03
79	79	98.83	-1267.98	43.29	2366.62	0	314.34	2	-696.35	2	-559.56	2.35	-708.03
79	80	100.40	-1267.98	83.92	2269.88	0	248.37	2	-672.69	2	-541.10	2.35	-677.62
80	80	100.40	-1267.98	83.92	2269.88	0	248.37	2	-672.69	2	-541.10	2.35	-677.62
80	81	101.98	-1267.98	119.40	2110.27	0	139.51	2	-633.61	2	-510.64	2.35	-627.46
81	81	101.98	-1267.98	119.40	2110.27	0	139.51	2	-633.61	2	-510.64	2.35	-627.46
81	82	103.55	-1267.98	160.11	1885.95	0	-13.47	2	-578.72	2	-467.83	2.35	-556.96
82	82	103.55	-1268.97	191.41	1886.13	0	-13.10	2	-579.26	2	-468.31	2.35	-557.56
82	83	105.13	-1269.34	236.79	1547.11	0	-244.88	2	-494.09	2	-403.99	2.35	-451.89
83	83	105.13	-1269.34	236.79	1547.11	0	-73.20	2	-670.62	2	-561.96	2.35	-654.82
83	84	106.70	-1269.63	277.49	1146.23	0	-340.41	2	-533.84	2	-452.60	2.35	-491.92
84	84	106.70	-865.19	246.19	1330.59	0	133.45	2	-551.50	2	-458.39	2.35	-557.47
84	85	108.28	-865.19	235.78	946.89	0	-121.96	2	-421.70	2	-353.39	2.35	-400.72
85	85	108.28	-865.19	235.78	946.89	0	-122.48	2	-419.80	2	-353.40	2.35	-401.34
85	86	109.85	-865.33	214.70	584.03	0	-364.85	2	-295.44	2	-254.30	2.35	-253.87
86	86	109.85	-462.42	214.72	779.83	0	117.23	2	-318.55	2	-263.96	2.35	-324.87
86	87	111.43	-462.42	212.45	446.09	0	-105.81	2	-202.49	2	-173.29	2.35	-191.00
87	87	111.43	-462.42	212.45	446.09	0	-105.81	2	-202.49	2	-173.29	2.35	-191.00
87	88	112.00	-462.42	212.91	325.98	0	-186.18	2	-160.40	2	-140.72	2.35	-143.11
88	88	112.00	-692.34	212.91	903.00	0	37.70	2	-434.04	2	-329.03	2.35	-386.41
88	89	113.00	-692.34	217.36	691.39	0	-104.01	2	-359.45	2	-271.74	2.35	-302.38
89	1089	113.00	-692.34	-222.50	691.39	0	-104.01	2	-359.45	2	-271.74	2.35	-302.38
89	90	114.00	-692.34	-218.04	908.22	0	41.14	2	-435.70	2	-330.48	2.35	-388.63
90	90	114.00	-462.42	-218.04	331.21	0	-182.73	2	-162.05	2	-142.17	2.35	-145.32
90	91	114.58	-462.42	-216.13	454.22	0	-100.45	2	-205.07	2	-175.55	2.35	-194.44
91	91	114.58	-462.42	-216.13	454.22	0	-100.45	2	-205.07	2	-175.55	2.35	-194.44
91	92	116.15	-462.42	-218.28	794.01	0	126.58	2	-323.04	2	-267.90	2.35	-330.87
92	92	116.15	-865.34	-218.28	598.21	0	-355.48	2	-299.94	2	-258.26	2.35	-259.89
92	93	117.73	-865.20	-238.99	965.29	0	-110.33	2	-425.62	2	-358.53	2.35	-409.13
93	93	117.73	-865.20	-238.99	965.29	0	-109.81	2	-427.58	2	-358.52	2.35	-408.47
93	94	119.30	-865.20	-244.27	1350.24	0	146.43	2	-557.78	2	-463.87	2.35	-565.72
94	94	119.30	-1269.62	-275.55	1165.89	0	-327.43	2	-540.12	2	-458.08	2.35	-500.16
94	95	120.88	-1269.32	-234.85	1563.74	0	-62.20	2	-675.93	2	-566.60	2.35	-661.73
95	95	120.88	-1269.32	-234.85	1563.74	0	-233.62	2	-497.78	2	-407.22	2.35	-457.21
95	96	122.45	-1268.95	-189.46	1899.74	0	-3.89	2	-582.28	2	-470.97	2.35	-561.85
96	96	122.45	-1267.98	-158.17	1899.56	0	-4.26	2	-581.75	2	-470.49	2.35	-561.26
96	97	124.03	-1267.98	-117.46	2120.83	0	146.66	2	-535.96	2	-512.71	2.35	-630.72
97	97	124.03	-1267.98	-117.46	2120.83	0	146.66	2	-635.96	2	-512.71	2.35	-630.72
97	98	125.60	-1267.98	-81.97	2277.44	0	253.48	2	-674.37	2	-542.60	2.35	-679.85
98	98	125.60	-1267.98	-81.97	2277.44	0	253.48	2	-674.37	2	-542.60	2.35	-679.85
98	99	127.18	-1267.98	-41.34	2371.10	0	317.37	2	-697.34	2	-560.47	2.35	-709.22
99	99	127.18	-1267.98	-41.34	2371.10	0	317.37	2	-697.34	2	-560.47	2.35	-709.22
99	100	128.75	-1267.98	-0.38	2399.10	0	336.49	2	-704.28	2	-565.81	2.35	-717.92
100	100	128.75	-1267.98	-0.38	2399.10	0	336.49	2	-704.28	2	-565.81	2.35	-717.92
100	101	130.33	-1267.98	44.82	2365.64	0	313.68	2	-696.13	2	-559.42	2.35	-707.35
101	101	130.33	-1267.98	44.82	2365.64	0	313.68	2	-696.13	2	-559.42	2.35	-707.35
101	102	131.90	-1267.98	85.46	2266.49	0	246.08	2	-671.93	2	-540.49	2.35	-676.11
102	102	131.90	-1267.98	85.46	2266.49	0	246.08	2	-671.93	2	-540.49	2.35	-676.11
102	103	133.48	-1267.98	120.93	2104.44	0	135.58	2	-632.32	2	-509.56	2.35	-625.11
103	103	133.48	-1267.98	120.93	2104.44	0	135.58	2	-632.32	2	-509.56	2.35	-625.11
103	104	135.05	-1267.98	161.67	1877.67	0	-19.06	2	-576.88	2	-466.27	2.35	-553.77
104	104	135.05	-1268.99	192.96	1877.85	0	-18.69	2	-577.43	2	-466.76	2.35	-554.37
104	105	136.63	-1269.33	238.34	1536.44	0	-252.08	2	-491.72	2	-401.96	2.35	-447.87
105	105	136.63	-1269.33	238.34	1536.44	0	-80.22	2	-667.22	2	-559.04	2.35	-649.73
105	106	138.20	-1269.68	279.04	1133.09	0	-349.09	2	-529.67	2	-449.00	2.35	-485.76
106	106	138.20	-865.20	247.74	1317.45	0	124.79	2	-547.32	2	-454.78	2.35	-551.30
106	107	139.78	-865.20	222.69	933.66	0	-130.69	2	-417.48	2	-349.75	2.35	-394.75
107	107	139.78	-865.20	222.69	933.66	0	-131.36	2	-415.11	2	-349.74	2.35	-395.51
107	108	141.35	-865.34	203.12	590.06	0	-361.02	2	-296.87	2	-255.98	2.35	-256.26
108	108	141.35	-462.42	203.15	785.86	0	121.09	2	-320.00	2	-265.65	2.35	-327.28
108	109	142.93	-462.42	208.82	464.05	0	-94.09	2	-207.72	2	-178.28	2.35	-198.50
109	109	142.93	-462.42	208.82	464.05	0	-94.09	2	-207.72	2	-178.28	2.35	-198.50
109	110	143.50	-462.42	199.44	346.15	0	-173.00	2	-166.31	2	-146.33	2.35	-151.56
110	110	143.50	-692.34	199.44	923.16	0	50.88	2	-439.96	2	-334.64	2.35	-394.86
110	111	144.50	-692.34	215.08	714.41	0	-88.95	2	-366.26	2	-278.14	2.35	-312.05
111	1111	144.50	-692.34	-163.06	714.41	0	-88.95	2	-366.26	2	-278.14	2.35	-312.05
111	112	145.50	-692.34	-152.93	872.66	0	17.06	2	-422.22	2	-320.91	2.35	-374.92
112	112	145.50	-376.11	-152.93	339.32	0	-102.42	2	-154.18	2	-135.10	2.35	-147.46
112	113	145.68	-376.11	-157.23	366.38	0	-84.31	2	-163.70	2	-142.42	2.35	-158.25
113	113	145.68	-376.11	-157.23	366.38	0	-84.31	2	-163.70	2	-142.42	2.35	-158.25
113	114	146.85	-376.11	-160.34	551.54	0	39.50	2	-228.35	2	-192.64	2.35	-232.50
114	114	146.85	-692.75	-160.32	397.70	0	-339.62	2	-210.07	2	-184.93	2.35	-176.54
114	115	148.03	-692.61	-188.31	600.07	0	-204.21	2	-279.70	2	-240.16	2.35	-258.87

CÁLCULO TENSIONAL

Hipótesis de cálculo:

FREC1.IPF75B.EnvTrenGen.MZ+.Tinf.MZ+

...entes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+. Tinf

...+gas + [.95, 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ+ + [0; .3]PA...

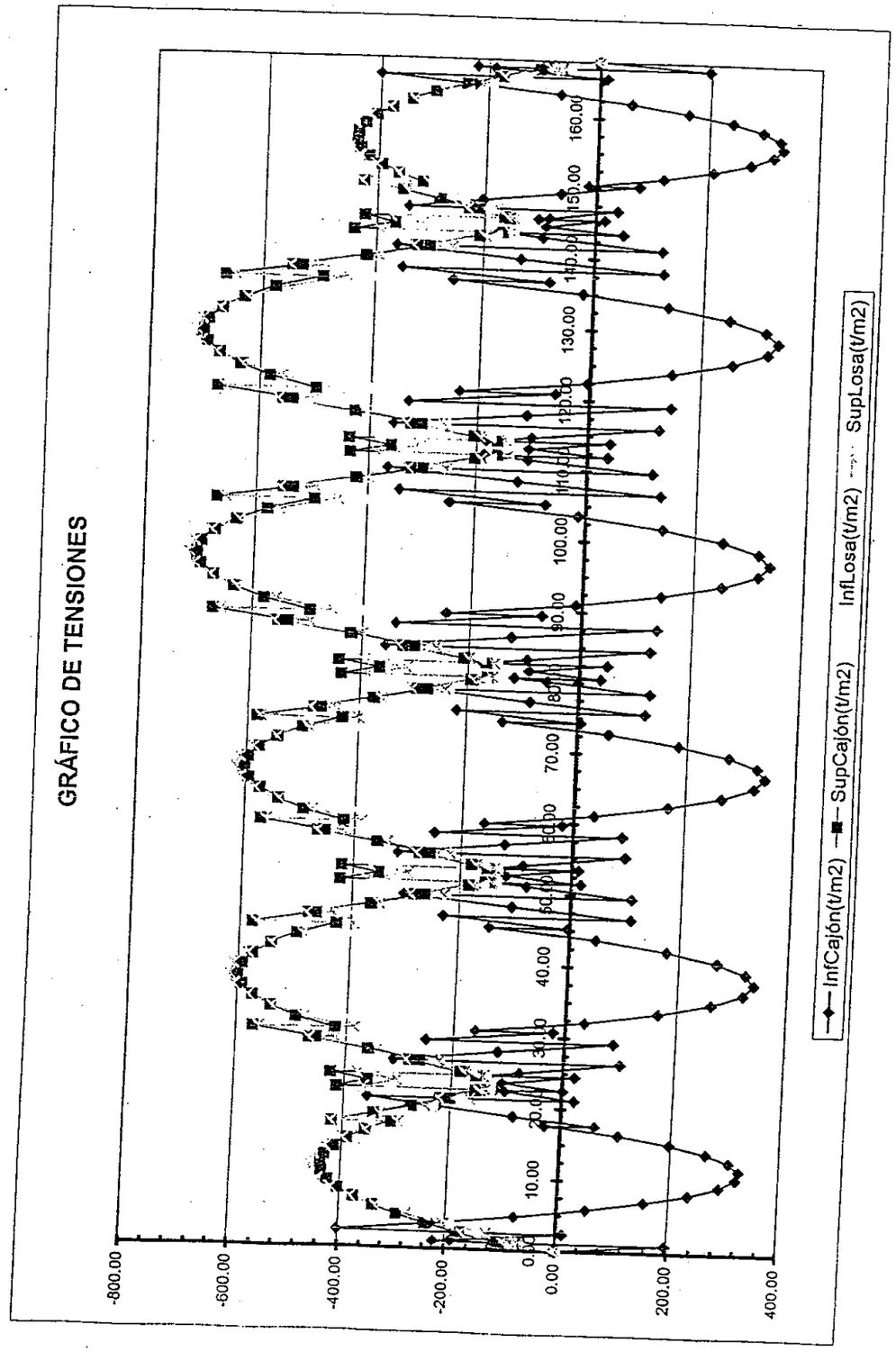
Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-692.61	-188.31	600.07	0	-203.21	2	-282.60	2	-240.25	2.35	-258.09
115	116	149.20	-692.61	-160.32	807.37	0	-65.19	2	-352.91	2	-296.86	2.35	-342.95
116	116	149.20	-693.97	-183.23	807.53	0	-64.94	2	-353.69	2	-297.57	2.35	-343.78
116	117	150.38	-693.96	-178.54	1018.86	0	75.91	2	-426.13	2	-355.11	2.35	-429.75
117	117	150.38	-693.96	-178.54	1018.86	0	-14.85	2	-313.93	2	-254.28	2.35	-302.40
117	118	151.55	-693.66	-148.20	1214.21	0	118.65	2	-362.83	2	-291.27	2.35	-363.28
118	118	151.55	-692.58	-125.31	1214.07	0	118.33	2	-362.27	2	-290.76	2.35	-362.66
118	119	152.73	-692.58	-95.11	1346.33	0	208.51	2	-394.57	2	-315.96	2.35	-404.26
119	119	152.73	-692.58	-95.11	1346.33	0	208.51	2	-394.57	2	-315.96	2.35	-404.26
119	120	153.90	-692.58	-69.22	1442.18	0	273.87	2	-417.97	2	-334.21	2.35	-434.40
120	120	153.90	-692.58	-69.22	1442.18	0	273.87	2	-417.97	2	-334.21	2.35	-434.40
120	121	155.08	-692.58	-34.94	1503.60	0	315.75	2	-432.92	2	-345.89	2.35	-453.74
121	121	155.08	-692.58	-34.94	1503.60	0	315.75	2	-432.92	2	-345.89	2.35	-453.74
121	122	156.25	-692.58	-8.70	1529.31	0	333.26	2	-439.13	2	-350.76	2.35	-461.86
122	122	156.25	-692.58	-8.70	1529.31	0	333.26	2	-439.13	2	-350.76	2.35	-461.86
122	123	157.43	-692.58	26.17	1520.51	0	327.23	2	-436.87	2	-349.03	2.35	-459.15
123	123	157.43	-692.58	26.17	1520.51	0	327.23	2	-436.87	2	-349.03	2.35	-459.15
123	124	158.60	-692.58	51.47	1474.49	0	295.84	2	-425.54	2	-340.21	2.35	-444.71
124	124	158.60	-692.58	51.47	1474.49	0	295.84	2	-425.54	2	-340.21	2.35	-444.71
124	125	159.78	-692.58	81.80	1393.26	0	240.42	2	-405.58	2	-324.66	2.35	-419.21
125	125	159.78	-692.58	81.80	1393.26	0	240.42	2	-405.58	2	-324.66	2.35	-419.21
125	126	160.95	-692.58	112.00	1277.11	0	161.19	2	-377.07	2	-302.45	2.35	-382.76
126	126	160.95	-692.58	112.00	1277.11	0	161.19	2	-377.07	2	-302.45	2.35	-382.76
126	127	162.13	-692.58	147.24	1124.77	0	57.28	2	-339.70	2	-273.32	2.35	-334.91
127	127	162.13	-692.58	147.24	1124.77	0	57.28	2	-339.70	2	-273.32	2.35	-334.91
127	128	163.30	-692.58	177.66	935.98	0	-71.48	2	-293.44	2	-237.24	2.35	-275.61
128	128	163.30	-692.58	177.66	935.98	0	-71.48	2	-293.44	2	-237.24	2.35	-275.61
128	129	164.48	-692.58	207.99	712.24	0	-224.08	2	-238.60	2	-194.49	2.35	-205.32
129	129	164.48	-692.58	207.99	712.24	0	-224.08	2	-238.60	2	-194.49	2.35	-205.32
129	130	165.65	-692.58	238.19	454.19	0	-400.09	2	-175.34	2	-145.20	2.35	-124.28
130	130	165.65	-376.11	238.19	583.23	0	13.16	2	-181.39	2	-142.73	2.35	-172.26
130	131	166.83	-376.11	268.43	288.11	0	-188.12	2	-109.09	2	-86.35	2.35	-79.54
131	131	166.83	-376.11	268.43	288.11	0	-188.12	2	-109.09	2	-86.35	2.35	-79.54
131	132	167.00	-376.11	272.99	241.00	0	-220.25	2	-97.56	2	-77.36	2.35	-64.74
132	132	167.00	0.00	272.99	288.56	0	196.84	2	-70.84	2	-55.10	2.35	-90.63
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

04/09/01

Programa DINTEL IDEAM S.A.
FREC1.IPF75B.EnvTrenGen.MZ+.Tinf.MZ+

GRÁFICO DE TENSIONES



combi_ti.xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.Tinf.MZ-
...entes con gradiente. Dominante GRAD. Tinf

[1: 1]Pvigas + [.95: 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [.9: 1.1]fase4.ISO.To + [.9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: .6]GRAD + [1: 1]RCE.Esfuerzos + [1: 1]RPT
Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-155.52	166.04	0	113.94	2	-43.56	2	-31.41	2.35	-50.63
2	2	1.00	-426.26	-155.52	101.29	0	-358.78	2	-73.85	2	-56.65	2.35	-21.22
2	3	1.18	-426.26	-153.01	128.29	0	-340.25	2	-80.91	2	-61.76	2.35	-29.46
3	3	1.18	-426.26	-153.01	128.29	0	-340.25	2	-80.91	2	-61.76	2.35	-29.46
3	4	2.35	-426.26	-136.15	298.17	0	-223.72	2	-125.33	2	-93.92	2.35	-81.29
4	4	2.35	-784.92	-136.15	142.81	0	-692.01	2	-118.72	2	-96.71	2.35	-26.81
4	5	3.53	-784.92	-119.30	292.88	0	-589.06	2	-157.95	2	-125.12	2.35	-72.60
5	5	3.53	-784.92	-119.30	292.88	0	-589.06	2	-157.95	2	-125.12	2.35	-72.60
5	6	4.70	-784.92	-102.43	423.15	0	-499.71	2	-191.97	2	-149.80	2.35	-112.35
6	6	4.70	-784.92	-102.43	423.15	0	-499.71	2	-191.97	2	-149.80	2.35	-112.35
6	7	5.88	-784.92	-85.57	533.61	0	-423.95	2	-220.80	2	-170.74	2.35	-146.05
7	7	5.88	-784.92	-85.57	533.61	0	-423.95	2	-220.80	2	-170.74	2.35	-146.05
7	8	7.05	-784.92	-68.72	624.27	0	-361.77	2	-244.44	2	-187.93	2.35	-173.71
8	8	7.05	-784.92	-68.72	624.27	0	-361.77	2	-244.44	2	-187.93	2.35	-173.71
8	9	8.23	-784.92	-51.87	695.14	0	-313.18	2	-262.88	2	-201.39	2.35	-195.33
9	9	8.23	-784.92	-51.87	695.14	0	-313.18	2	-262.88	2	-201.39	2.35	-195.33
9	10	9.40	-784.92	-35.02	746.20	0	-278.18	2	-276.12	2	-211.11	2.35	-210.91
10	10	9.40	-784.92	-35.02	746.20	0	-278.18	2	-276.12	2	-211.11	2.35	-210.91
10	11	10.58	-784.92	-18.16	777.43	0	-256.78	2	-284.16	2	-217.09	2.35	-220.44
11	11	10.58	-784.92	-18.16	777.43	0	-256.78	2	-284.16	2	-217.09	2.35	-220.44
11	12	11.75	-784.92	-1.31	788.87	0	-248.97	2	-287.01	2	-219.33	2.35	-223.94
12	12	11.75	-784.92	-1.31	788.87	0	-248.97	2	-287.01	2	-219.33	2.35	-223.94
12	13	12.93	-784.92	15.55	780.52	0	-254.74	2	-284.66	2	-217.83	2.35	-221.39
13	13	12.93	-784.92	15.55	780.52	0	-254.74	2	-284.66	2	-217.83	2.35	-221.39
13	14	14.10	-784.92	32.41	752.33	0	-274.12	2	-277.11	2	-212.58	2.35	-212.80
14	14	14.10	-784.92	32.41	752.33	0	-274.12	2	-277.11	2	-212.58	2.35	-212.80
14	15	15.28	-784.92	49.26	704.37	0	-307.07	2	-264.37	2	-203.60	2.35	-198.17
15	15	15.28	-784.92	49.26	704.37	0	-307.07	2	-264.37	2	-203.60	2.35	-198.17
15	16	16.45	-784.92	66.12	636.58	0	-353.63	2	-246.43	2	-190.88	2.35	-177.49
16	16	16.45	-785.27	91.21	636.74	0	-353.04	2	-246.76	2	-191.18	2.35	-177.92
16	17	17.63	-785.42	108.07	519.43	0	-433.74	2	-214.98	2	-169.28	2.35	-142.40
17	17	17.63	-785.42	108.07	519.43	0	-324.24	2	-281.58	2	-230.44	2.35	-225.63
17	18	18.80	-785.88	150.17	371.05	0	-423.74	2	-229.26	2	-190.55	2.35	-166.83
18	18	18.80	-785.09	125.07	370.87	0	-424.18	2	-228.64	2	-189.97	2.35	-166.13
18	19	19.98	-785.09	144.99	212.18	0	-530.13	2	-173.84	2	-146.84	2.35	-102.64
19	19	19.98	-785.09	144.99	212.18	0	-531.35	2	-170.30	2	-146.72	2.35	-103.59
19	20	21.15	-785.23	164.93	30.07	0	-653.43	2	-107.08	2	-97.10	2.35	-30.62
20	20	21.15	-426.26	164.98	212.60	0	-222.84	2	-127.96	2	-106.21	2.35	-94.68
20	21	22.33	-426.26	184.92	7.03	0	-360.17	2	-56.73	2	-50.32	2.35	-12.52
21	21	22.33	-426.26	184.92	7.03	0	-360.17	2	-56.73	2	-50.32	2.35	-12.52
21	22	22.50	-426.26	187.88	-25.59	0	-381.96	2	-45.43	2	-41.45	2.35	0.52
22	22	22.50	-546.59	187.88	450.34	0	-153.03	2	-253.26	2	-183.20	2.35	-190.26
22	23	23.50	-546.59	210.29	251.26	0	-286.04	2	-184.20	2	-129.08	2.35	-110.72
23	1023	23.50	-546.59	-250.05	251.26	0	-286.04	2	-184.20	2	-129.08	2.35	-110.72
23	24	24.50	-546.59	-227.65	490.14	0	-126.46	2	-267.00	2	-194.06	2.35	-206.17
24	24	24.50	-458.86	-227.65	-3.04	0	-394.91	2	-57.03	2	-51.33	2.35	-9.35
24	25	24.95	-458.86	-220.02	97.66	0	-327.64	2	-91.90	2	-78.73	2.35	-49.60
25	25	24.95	-458.86	-220.02	97.66	0	-327.64	2	-91.90	2	-78.73	2.35	-49.60
25	26	26.40	-458.86	-195.42	398.84	0	-126.46	2	-196.19	2	-160.68	2.35	-169.98
26	26	26.40	-850.30	-195.40	199.70	0	-595.81	2	-173.48	2	-150.82	2.35	-100.23
26	27	27.85	-850.17	-170.80	465.20	0	-418.06	2	-265.54	2	-223.17	2.35	-206.53
27	27	27.85	-850.17	-170.80	465.20	0	-417.10	2	-268.90	2	-223.19	2.35	-205.46
27	28	29.30	-850.17	-123.39	677.56	0	-275.13	2	-342.87	2	-280.86	2.35	-290.23
28	28	29.30	-1176.84	-153.85	520.93	0	-659.18	2	-328.19	2	-275.66	2.35	-236.43
28	29	30.75	-1176.69	-133.05	729.31	0	-519.47	2	-402.31	2	-331.86	2.35	-319.03
29	29	30.75	-1176.69	-133.05	729.31	0	-684.55	2	-306.25	2	-244.25	2.35	-198.82
29	30	32.20	-1176.55	-112.25	907.52	0	-561.97	2	-354.40	2	-277.67	2.35	-252.82
30	30	32.20	-1176.20	-81.78	907.34	0	-562.55	2	-354.07	2	-277.37	2.35	-252.40
30	31	33.65	-1176.20	-60.98	1010.84	0	-491.51	2	-381.31	2	-296.89	2.35	-283.96
31	31	33.65	-1176.20	-60.98	1010.84	0	-491.51	2	-381.31	2	-296.89	2.35	-283.96
31	32	35.10	-1176.20	-40.19	1084.18	0	-441.16	2	-400.63	2	-310.72	2.35	-306.32
32	32	35.10	-1176.20	-40.19	1084.18	0	-441.16	2	-400.63	2	-310.72	2.35	-306.32
32	33	36.55	-1176.20	-19.38	1127.35	0	-411.52	2	-412.04	2	-318.86	2.35	-319.48
33	33	36.55	-1176.20	-19.38	1127.35	0	-411.52	2	-412.04	2	-318.86	2.35	-319.48
33	34	38.00	-1176.20	1.42	1140.36	0	-402.57	2	-415.54	2	-321.30	2.35	-323.44
34	34	38.00	-1176.20	1.42	1140.36	0	-402.57	2	-415.54	2	-321.30	2.35	-323.44
34	35	39.45	-1176.20	22.23	1123.24	0	-414.30	2	-411.13	2	-318.05	2.35	-318.20
35	35	39.45	-1176.20	22.23	1123.24	0	-414.30	2	-411.13	2	-318.05	2.35	-318.20
35	36	40.90	-1176.20	43.03	1075.92	0	-446.75	2	-398.80	2	-309.09	2.35	-303.76
36	36	40.90	-1176.20	43.03	1075.92	0	-446.75	2	-398.80	2	-309.09	2.35	-303.76
36	37	42.35	-1176.20	63.81	998.47	0	-499.88	2	-378.56	2	-294.45	2.35	-280.12
37	37	42.35	-1176.20	63.81	998.47	0	-499.88	2	-378.56	2	-294.45	2.35	-280.12
37	38	43.80	-1176.20	84.62	890.84	0	-573.72	2	-350.40	2	-274.11	2.35	-247.27
38	38	43.80	-1176.58	115.09	891.02	0	-573.14	2	-350.75	2	-274.43	2.35	-247.70
38	39	45.25	-1176.72	135.89	708.70	0	-698.50	2	-301.69	2	-240.19	2.35	-192.42

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.Tinf.MZ-
Frecuentes con gradiente. Dominante GRAD. Tinf

1: 1]Pvigas + [.95: 1.05]fase1.ISO.To + [1: 1]Prelosas + [1: 1]HBCV + [.9: 1.1]fase4.ISO.To + [.9: 1.1]fase4.HIP.To + [1: 1]HBCP + [1: 1]HVOL + [.7: 1.3]CMBAL + [1: 1]CMRESTO + [0: .6]GRAD + [1: 1]RCE.Esfuerzos + [1: 1]RPT
oef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1176.72	135.89	708.70	0	-533.11	2	-395.74	2	-326.05	2.35	-310.67
39	40	46.70	-1176.88	156.70	496.21	0	-675.53	2	-320.31	2	-268.69	2.35	-226.40
40	40	46.70	-850.10	126.23	652.84	0	-291.44	2	-334.95	2	-273.86	2.35	-280.16
40	41	48.15	-850.10	173.67	435.97	0	-436.39	2	-259.55	2	-214.92	2.35	-193.57
41	41	48.15	-850.10	173.67	435.97	0	-437.11	2	-256.79	2	-214.93	2.35	-194.51
41	42	49.60	-850.25	198.29	166.33	0	-617.61	2	-163.49	2	-141.41	2.35	-86.49
42	42	49.60	-458.86	198.30	365.46	0	-148.34	2	-186.18	2	-151.25	2.35	-156.21
42	43	51.05	-458.86	222.90	60.10	0	-352.26	2	-80.64	2	-68.12	2.35	-34.10
43	43	51.05	-458.86	222.90	60.10	0	-352.26	2	-80.64	2	-68.12	2.35	-34.10
43	44	51.50	-458.86	230.53	-41.91	0	-420.39	2	-45.38	2	-40.35	2.35	6.69
44	44	51.50	-546.59	230.53	451.27	0	-151.94	2	-255.34	2	-183.08	2.35	-190.74
44	45	52.50	-546.59	252.93	209.53	0	-313.41	2	-171.68	2	-117.29	2.35	-93.50
45	1045	52.50	-546.59	-252.22	209.53	0	-313.41	2	-171.68	2	-117.29	2.35	-93.50
45	46	53.50	-546.59	-229.81	450.53	0	-152.42	2	-255.13	2	-182.87	2.35	-189.83
46	46	53.50	-458.86	-229.81	-42.65	0	-420.87	2	-45.16	2	-40.15	2.35	7.00
46	47	53.95	-458.86	-222.16	59.05	0	-352.95	2	-80.33	2	-67.83	2.35	-33.66
47	47	53.95	-458.86	-222.16	59.05	0	-352.95	2	-80.33	2	-67.83	2.35	-33.66
47	48	55.40	-458.86	-197.56	363.36	0	-149.71	2	-185.57	2	-150.66	2.35	-155.33
48	48	55.40	-850.28	-197.54	164.23	0	-619.01	2	-162.88	2	-140.82	2.35	-85.61
48	49	56.85	-850.14	-172.95	432.84	0	-439.20	2	-255.88	2	-214.05	2.35	-193.19
49	49	56.85	-850.14	-172.95	432.84	0	-438.47	2	-258.55	2	-214.05	2.35	-192.31
49	50	58.30	-850.14	-125.97	651.36	0	-292.43	2	-334.49	2	-273.45	2.35	-279.57
50	50	58.30	-1176.88	-156.43	494.73	0	-676.51	2	-319.84	2	-268.26	2.35	-225.80
50	51	59.75	-1176.73	-135.64	706.86	0	-534.32	2	-395.16	2	-325.52	2.35	-309.93
51	51	59.75	-1176.73	-135.64	706.86	0	-699.75	2	-301.28	2	-239.82	2.35	-191.85
51	52	61.20	-1176.56	-114.83	888.83	0	-574.62	2	-350.26	2	-273.98	2.35	-247.02
52	52	61.20	-1176.20	-84.36	888.65	0	-575.20	2	-349.92	2	-273.67	2.35	-246.59
52	53	62.65	-1176.20	-63.57	995.89	0	-501.63	2	-377.99	2	-293.93	2.35	-279.32
53	53	62.65	-1176.20	-63.57	995.89	0	-501.63	2	-377.99	2	-293.93	2.35	-279.32
53	54	64.10	-1176.20	-42.76	1072.99	0	-448.73	2	-398.15	2	-308.51	2.35	-302.85
54	54	64.10	-1176.20	-42.76	1072.99	0	-448.73	2	-398.15	2	-308.51	2.35	-302.85
54	55	65.55	-1176.20	-21.97	1119.92	0	-416.54	2	-410.40	2	-317.38	2.35	-317.18
55	55	65.55	-1176.20	-21.97	1119.92	0	-416.54	2	-410.40	2	-317.38	2.35	-317.18
55	56	67.00	-1176.20	-1.16	1136.70	0	-405.05	2	-414.73	2	-320.56	2.35	-322.30
56	56	67.00	-1176.20	-1.16	1136.70	0	-405.05	2	-414.73	2	-320.56	2.35	-322.30
56	57	68.45	-1176.20	19.64	1123.32	0	-414.25	2	-411.15	2	-318.05	2.35	-318.23
57	57	68.45	-1176.20	19.64	1123.32	0	-414.25	2	-411.15	2	-318.05	2.35	-318.23
57	58	69.90	-1176.20	40.43	1079.78	0	-444.14	2	-399.66	2	-309.84	2.35	-304.96
58	58	69.90	-1176.20	40.43	1079.78	0	-444.14	2	-399.66	2	-309.84	2.35	-304.96
58	59	71.35	-1176.20	61.23	1006.07	0	-494.73	2	-380.25	2	-295.94	2.35	-282.48
59	59	71.35	-1176.20	61.23	1006.07	0	-494.73	2	-380.25	2	-295.94	2.35	-282.48
59	60	72.80	-1176.20	82.03	902.20	0	-566.03	2	-352.93	2	-276.34	2.35	-250.81
60	60	72.80	-1176.55	112.49	902.37	0	-565.45	2	-353.26	2	-276.64	2.35	-251.23
60	61	74.25	-1176.71	133.30	723.80	0	-688.28	2	-305.04	2	-243.15	2.35	-197.12
61	61	74.25	-1176.71	133.30	723.80	0	-523.12	2	-400.56	2	-330.29	2.35	-316.81
61	62	75.70	-1176.85	154.10	515.05	0	-663.07	2	-326.32	2	-273.98	2.35	-234.05
62	62	75.70	-850.14	123.63	671.68	0	-279.00	2	-340.98	2	-279.17	2.35	-287.83
62	63	77.15	-850.14	171.51	447.34	0	-428.89	2	-263.18	2	-218.16	2.35	-198.20
63	63	77.15	-850.14	171.51	447.34	0	-429.67	2	-260.37	2	-218.16	2.35	-199.11
63	64	78.60	-850.28	196.12	180.80	0	-608.12	2	-168.02	2	-145.51	2.35	-92.37
64	64	78.60	-458.86	196.14	379.94	0	-138.80	2	-190.72	2	-155.37	2.35	-162.11
64	65	80.05	-458.86	220.75	77.70	0	-340.66	2	-86.13	2	-73.12	2.35	-41.29
65	65	80.05	-458.86	220.75	77.70	0	-340.66	2	-86.13	2	-73.12	2.35	-41.29
65	66	80.50	-458.86	228.38	-23.34	0	-408.15	2	-51.16	2	-45.63	2.35	-0.90
66	66	80.50	-546.59	228.38	469.84	0	-139.71	2	-261.12	2	-188.36	2.35	-197.72
66	67	81.50	-546.59	250.79	230.25	0	-299.76	2	-178.12	2	-123.18	2.35	-101.97
67	1067	81.50	-546.59	-272.64	230.25	0	-299.76	2	-178.12	2	-123.18	2.35	-101.97
67	68	82.50	-546.59	-250.22	491.70	0	-125.11	2	-268.67	2	-194.32	2.35	-206.47
68	68	82.50	-524.08	-250.22	-35.97	0	-472.59	2	-54.43	2	-49.62	2.35	2.45
68	69	83.08	-524.08	-240.47	105.10	0	-378.37	2	-103.23	2	-88.02	2.35	-53.94
69	69	83.08	-524.08	-240.47	105.10	0	-378.37	2	-103.23	2	-88.02	2.35	-53.94
69	70	84.65	-524.08	-213.74	462.81	0	-139.46	2	-226.99	2	-185.38	2.35	-196.95
70	70	84.65	-980.71	-213.73	230.49	0	-686.93	2	-200.53	2	-173.91	2.35	-115.63
70	71	86.23	-980.57	-187.02	546.09	0	-475.72	2	-309.83	2	-259.92	2.35	-241.98
71	71	86.23	-980.57	-187.02	546.09	0	-475.02	2	-312.34	2	-259.92	2.35	-241.17
71	72	87.80	-980.57	-136.07	787.59	0	-313.50	2	-396.72	2	-325.47	2.35	-337.49
72	72	87.80	-1437.72	-170.34	568.23	0	-851.38	2	-375.97	2	-317.99	2.35	-261.93
72	73	89.38	-1437.57	-147.74	819.18	0	-683.15	2	-465.16	2	-385.73	2.35	-361.45
73	73	89.38	-1437.57	-147.74	819.18	0	-886.11	2	-353.86	2	-284.65	2.35	-221.26
73	74	90.95	-1437.40	-125.15	1034.57	0	-737.97	2	-411.94	2	-325.08	2.35	-286.56
74	74	90.95	-1437.04	-90.88	1034.37	0	-738.57	2	-411.60	2	-324.77	2.35	-286.13
74	75	92.53	-1437.04	-68.29	1159.72	0	-652.56	2	-444.46	2	-348.45	2.35	-324.37
75	75	92.53	-1437.04	-68.29	1159.72	0	-652.56	2	-444.46	2	-348.45	2.35	-324.37
75	76	94.10	-1437.04	-45.70	1249.50	0	-590.96	2	-467.98	2	-365.40	2.35	-351.77
76	76	94.10	-1437.04	-45.70	1249.50	0	-590.96	2	-467.98	2	-365.40	2.35	-351.77
76	77	95.68	-1437.04	-23.10	1303.69	0	-553.78	2	-482.17	2	-375.65	2.35	-368.31

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FRFC1.GRAD.Tinf.MZ-
antes con gradiente. Dominante GRAD. Tinf

[1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1437.04	-23.10	1303.69	0	-553.78	2	-482.17	2	-375.65	2.35	-368.31
77	78	97.25	-1437.04	-0.51	1322.29	0	-541.03	2	-487.01	2	-379.16	2.35	-373.98
78	78	97.25	-1437.04	-0.51	1322.29	0	-541.03	2	-487.01	2	-379.16	2.35	-373.98
78	79	98.83	-1437.04	22.09	1305.31	0	-552.68	2	-482.53	2	-375.97	2.35	-368.81
79	79	98.83	-1437.04	22.09	1305.31	0	-552.68	2	-482.53	2	-375.97	2.35	-368.81
79	80	100.40	-1437.04	44.68	1252.72	0	-588.78	2	-468.70	2	-366.04	2.35	-352.77
80	80	100.40	-1437.04	44.68	1252.72	0	-588.78	2	-468.70	2	-366.04	2.35	-352.77
80	81	101.98	-1437.04	67.28	1164.59	0	-649.27	2	-445.54	2	-349.41	2.35	-325.89
81	81	101.98	-1437.04	67.28	1164.59	0	-649.27	2	-445.54	2	-349.41	2.35	-325.89
81	82	103.55	-1437.04	89.86	1040.85	0	-734.19	2	-413.04	2	-326.05	2.35	-288.14
82	82	103.55	-1437.39	124.13	1041.04	0	-733.59	2	-413.37	2	-326.36	2.35	-288.57
82	83	105.13	-1437.55	146.72	827.31	0	-880.61	2	-355.66	2	-286.25	2.35	-223.79
83	83	105.13	-1437.55	146.72	827.31	0	-677.77	2	-467.75	2	-388.02	2.35	-364.75
83	84	106.70	-1437.69	169.32	577.96	0	-844.94	2	-379.07	2	-320.74	2.35	-265.88
84	84	106.70	-980.55	135.05	797.32	0	-307.06	2	-399.81	2	-328.21	2.35	-341.43
84	85	108.28	-980.55	187.14	544.78	0	-475.88	2	-311.90	2	-259.61	2.35	-240.61
85	85	108.28	-980.55	187.14	544.78	0	-476.53	2	-309.52	2	-259.61	2.35	-241.40
85	86	109.85	-980.69	213.86	228.99	0	-687.85	2	-200.17	2	-173.55	2.35	-114.96
86	86	109.85	-524.08	213.88	461.31	0	-140.41	2	-226.64	2	-185.02	2.35	-196.28
86	87	111.43	-524.08	240.61	103.43	0	-379.44	2	-102.84	2	-87.62	2.35	-53.20
87	87	111.43	-524.08	240.61	103.43	0	-379.44	2	-102.84	2	-87.62	2.35	-53.20
87	88	112.00	-524.08	250.36	-37.75	0	-473.73	2	-54.00	2	-49.20	2.35	3.24
88	88	112.00	-546.59	250.36	489.92	0	-126.25	2	-268.24	2	-193.89	2.35	-205.68
88	89	113.00	-546.59	272.79	228.36	0	-300.96	2	-177.67	2	-122.73	2.35	-101.13
89	1089	113.00	-546.59	-273.78	228.36	0	-300.96	2	-177.67	2	-122.73	2.35	-101.13
89	90	114.00	-546.59	-251.36	490.98	0	-125.55	2	-268.56	2	-194.19	2.35	-206.11
90	90	114.00	-524.08	-251.36	-36.69	0	-473.03	2	-54.32	2	-49.50	2.35	2.81
90	91	114.58	-524.08	-241.60	105.00	0	-378.40	2	-103.31	2	-88.07	2.35	-53.85
91	91	114.58	-524.08	-241.60	105.00	0	-378.40	2	-103.31	2	-88.07	2.35	-53.85
91	92	116.15	-524.08	-214.88	464.50	0	-138.32	2	-227.60	2	-185.92	2.35	-197.60
92	92	116.15	-980.68	-214.88	232.18	0	-685.73	2	-201.14	2	-174.46	2.35	-116.29
92	93	117.73	-980.54	-188.15	549.56	0	-473.37	2	-310.96	2	-260.97	2.35	-243.39
93	93	117.73	-980.54	-188.15	549.56	0	-472.71	2	-313.43	2	-260.95	2.35	-242.56
93	94	119.30	-980.54	-135.99	803.19	0	-303.18	2	-401.68	2	-329.87	2.35	-343.81
94	94	119.30	-1437.71	-170.25	583.84	0	-841.07	2	-380.95	2	-322.40	2.35	-268.27
94	95	120.88	-1437.56	-147.64	834.64	0	-672.93	2	-470.09	2	-390.09	2.35	-367.73
95	95	120.88	-1437.56	-147.64	834.64	0	-875.65	2	-357.29	2	-287.70	2.35	-226.07
95	96	122.45	-1437.41	-125.05	1049.87	0	-727.62	2	-415.34	2	-328.10	2.35	-291.32
96	96	122.45	-1437.04	-90.79	1049.68	0	-728.22	2	-415.00	2	-327.79	2.35	-290.89
96	97	124.03	-1437.04	-68.19	1174.88	0	-642.30	2	-447.82	2	-351.44	2.35	-329.09
97	97	124.03	-1437.04	-68.19	1174.88	0	-642.30	2	-447.82	2	-351.44	2.35	-329.09
97	98	125.60	-1437.04	-45.60	1264.50	0	-580.81	2	-471.31	2	-368.36	2.35	-356.43
98	98	125.60	-1437.04	-45.60	1264.50	0	-580.81	2	-471.31	2	-368.36	2.35	-356.43
98	99	127.18	-1437.04	-23.00	1318.52	0	-543.74	2	-485.46	2	-378.57	2.35	-372.92
99	99	127.18	-1437.04	-23.00	1318.52	0	-543.74	2	-485.46	2	-378.57	2.35	-372.92
99	100	128.75	-1437.04	-0.42	1336.98	0	-531.09	2	-490.28	2	-382.06	2.35	-378.55
100	100	128.75	-1437.04	-0.42	1336.98	0	-531.09	2	-490.28	2	-382.06	2.35	-378.55
100	101	130.33	-1437.04	22.17	1319.86	0	-542.84	2	-485.76	2	-378.83	2.35	-373.33
101	101	130.33	-1437.04	22.17	1319.86	0	-542.84	2	-485.76	2	-378.83	2.35	-373.33
101	102	131.90	-1437.04	44.77	1267.13	0	-579.03	2	-471.90	2	-368.88	2.35	-357.25
102	102	131.90	-1437.04	44.77	1267.13	0	-579.03	2	-471.90	2	-368.88	2.35	-357.25
102	103	133.48	-1437.04	67.36	1178.83	0	-639.63	2	-448.70	2	-352.21	2.35	-330.32
103	103	133.48	-1437.04	67.36	1178.83	0	-639.63	2	-448.70	2	-352.21	2.35	-330.32
103	104	135.05	-1437.04	89.96	1054.94	0	-724.65	2	-416.17	2	-328.82	2.35	-292.53
104	104	135.05	-1437.39	124.23	1055.14	0	-724.05	2	-416.50	2	-329.13	2.35	-292.96
104	105	136.63	-1437.54	146.83	841.23	0	-871.18	2	-358.74	2	-288.99	2.35	-228.11
105	105	136.63	-1437.54	146.83	841.23	0	-668.57	2	-472.19	2	-391.94	2.35	-370.40
105	106	138.20	-1437.71	169.42	591.73	0	-835.85	2	-383.47	2	-324.62	2.35	-271.48
106	106	138.20	-980.58	135.14	811.09	0	-297.98	2	-404.22	2	-332.10	2.35	-347.03
106	107	139.78	-980.58	186.01	573.14	0	-457.15	2	-320.98	2	-267.55	2.35	-252.16
107	107	139.78	-980.58	186.01	573.14	0	-458.01	2	-317.95	2	-267.54	2.35	-253.13
107	108	141.35	-980.72	212.72	259.13	0	-668.17	2	-209.13	2	-181.97	2.35	-127.43
108	108	141.35	-524.08	212.75	491.45	0	-120.67	2	-235.60	2	-193.45	2.35	-208.77
108	109	142.93	-524.08	239.48	135.33	0	-358.55	2	-112.31	2	-96.54	2.35	-66.41
109	109	142.93	-524.08	239.48	135.33	0	-358.55	2	-112.31	2	-96.54	2.35	-66.41
109	110	143.50	-524.08	249.23	-5.21	0	-452.42	2	-63.66	2	-58.29	2.35	-10.24
110	110	143.50	-546.59	249.23	522.46	0	-104.94	2	-277.90	2	-202.99	2.35	-219.16
110	111	144.50	-546.59	271.65	262.06	0	-278.90	2	-187.68	2	-132.14	2.35	-115.09
111	1111	144.50	-546.59	-209.84	262.06	0	-278.90	2	-187.68	2	-132.14	2.35	-115.09
	112	145.50	-546.59	-187.42	460.72	0	-146.17	2	-256.60	2	-186.14	2.35	-194.46
	112	145.50	-426.26	-187.42	-15.22	0	-375.10	2	-48.77	2	-44.39	2.35	-3.68
112	113	145.68	-426.26	-184.45	17.30	0	-353.37	2	-60.04	2	-53.23	2.35	-16.68
113	113	145.68	-426.26	-184.45	17.30	0	-353.37	2	-60.04	2	-53.23	2.35	-16.68
113	114	146.85	-426.26	-164.52	222.32	0	-216.41	2	-131.09	2	-108.97	2.35	-98.62
114	114	146.85	-785.23	-164.49	39.78	0	-646.99	2	-110.21	2	-99.85	2.35	-34.55
114	115	148.03	-785.09	-144.54	221.37	0	-525.27	2	-173.26	2	-149.33	2.35	-107.31

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.GRAD.Tinf.MZ-
Frecuentes con gradiente. Dominante GRAD. Tinf

1; 1]Pvigas + [.85; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [1; 1]RCE.Esfuerzos + [1; 1]RPT.

oef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-785.09	-144.54	221.37	0	-524.06	2	-176.77	2	-149.44	2.35	-106.37
115	116	149.20	-785.09	-124.60	379.52	0	-418.46	2	-231.40	2	-192.42	2.35	-169.64
116	116	149.20	-785.87	-149.71	379.70	0	-418.02	2	-232.02	2	-192.99	2.35	-170.34
116	117	150.38	-785.40	-107.12	535.95	0	-313.31	2	-286.85	2	-235.07	2.35	-232.34
117	117	150.38	-785.40	-107.12	535.95	0	-422.55	2	-218.65	2	-172.51	2.35	-147.54
117	118	151.55	-785.26	-90.26	652.16	0	-342.60	2	-250.18	2	-194.20	2.35	-182.71
118	118	151.55	-784.92	-65.18	652.01	0	-343.19	2	-249.86	2	-193.90	2.35	-182.30
118	119	152.73	-784.92	-48.32	718.68	0	-297.39	2	-267.55	2	-206.41	2.35	-202.63
119	119	152.73	-784.92	-48.32	718.68	0	-297.39	2	-267.55	2	-206.41	2.35	-202.63
119	120	153.90	-784.92	-31.46	765.56	0	-265.17	2	-280.05	2	-215.18	2.35	-216.92
120	120	153.90	-784.92	-31.46	765.56	0	-265.17	2	-280.05	2	-215.18	2.35	-216.92
120	121	155.08	-784.92	-14.61	792.62	0	-246.55	2	-287.35	2	-220.20	2.35	-225.16
121	121	155.08	-784.92	-14.61	792.62	0	-246.55	2	-287.35	2	-220.20	2.35	-225.16
121	122	156.25	-784.92	2.25	799.89	0	-241.51	2	-289.46	2	-221.49	2.35	-227.37
122	122	156.25	-784.92	2.25	799.89	0	-241.51	2	-289.46	2	-221.49	2.35	-227.37
122	123	157.43	-784.92	19.10	787.34	0	-250.08	2	-286.36	2	-219.03	2.35	-223.53
123	123	157.43	-784.92	19.10	787.34	0	-250.08	2	-286.36	2	-219.03	2.35	-223.53
123	124	158.60	-784.92	35.95	755.02	0	-272.21	2	-278.08	2	-212.84	2.35	-213.66
124	124	158.60	-784.92	35.95	755.02	0	-272.21	2	-278.08	2	-212.84	2.35	-213.66
124	125	159.78	-784.92	52.81	702.86	0	-307.95	2	-264.59	2	-202.91	2.35	-197.74
125	125	159.78	-784.92	52.81	702.86	0	-307.95	2	-264.59	2	-202.91	2.35	-197.74
125	126	160.95	-784.92	69.66	630.88	0	-357.30	2	-245.90	2	-189.23	2.35	-175.77
126	126	160.95	-784.92	69.66	630.88	0	-357.30	2	-245.90	2	-189.23	2.35	-175.77
126	127	162.13	-784.92	86.52	539.13	0	-420.21	2	-222.03	2	-171.82	2.35	-147.77
127	127	162.13	-784.92	86.52	539.13	0	-420.21	2	-222.03	2	-171.82	2.35	-147.77
127	128	163.30	-784.92	103.37	427.56	0	-496.73	2	-192.95	2	-150.66	2.35	-113.72
128	128	163.30	-784.92	103.37	427.56	0	-496.73	2	-192.95	2	-150.66	2.35	-113.72
128	129	164.48	-784.92	120.23	296.19	0	-586.83	2	-158.68	2	-125.77	2.35	-73.63
129	129	164.48	-784.92	120.23	296.19	0	-586.83	2	-158.68	2	-125.77	2.35	-73.63
129	130	165.65	-784.92	137.09	145.02	0	-690.51	2	-119.22	2	-97.14	2.35	-27.50
130	130	165.65	-426.26	137.09	300.39	0	-222.22	2	-125.82	2	-94.35	2.35	-81.98
130	131	166.83	-426.26	153.95	129.40	0	-339.50	2	-81.16	2	-61.98	2.35	-29.81
131	131	166.83	-426.26	153.95	129.40	0	-339.50	2	-81.16	2	-61.98	2.35	-29.81
131	132	167.00	-426.26	156.46	102.21	0	-358.15	2	-74.05	2	-56.83	2.35	-21.51
132	132	167.00	0.00	156.46	166.96	0	114.56	2	-43.77	2	-31.59	2.35	-50.92
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:

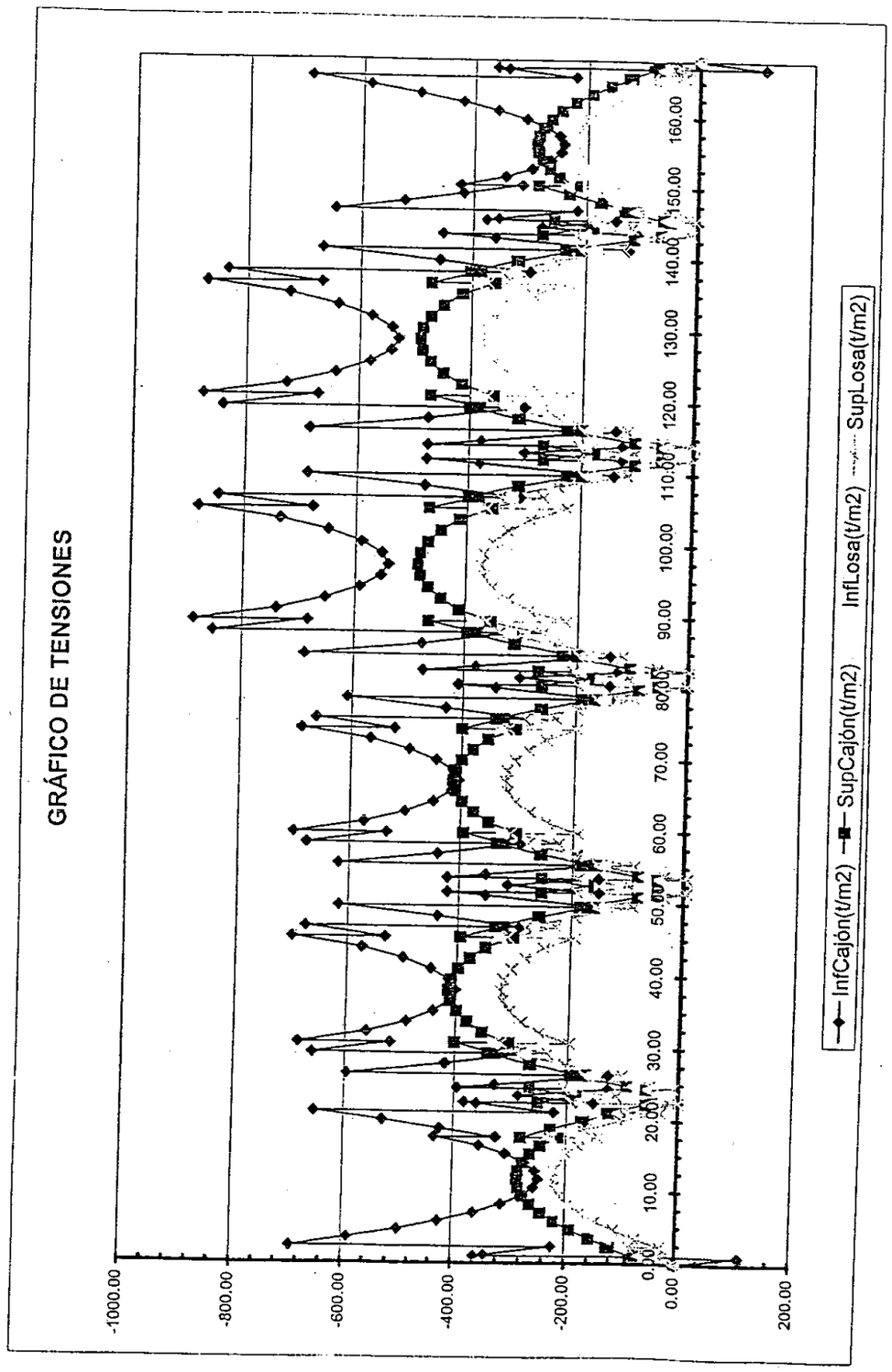
FREC1.IPF75B.EnvTrenGen.MZ-.Tinf.MZ-

Frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-.Tinf

1)Pvigas + [.95; 1.05]Fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]Fase4.ISO.To + [.9; 1.1]Fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ- + [0; .3]PAS

ref. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-139.88	150.41	0	103.36	2	-40.08	2	-28.38	2.35	-45.48
2	2	1.00	-426.26	-139.88	85.66	0	-369.35	2	-70.37	2	-53.63	2.35	-16.07
2	3	1.18	-426.26	-137.37	109.92	0	-352.68	2	-76.83	2	-58.21	2.35	-23.40
3	3	1.18	-426.26	-137.37	109.92	0	-352.68	2	-76.83	2	-58.21	2.35	-23.40
3	4	2.35	-426.26	-120.51	261.43	0	-248.57	2	-117.16	2	-86.82	2.35	-69.17
4	4	2.35	-784.92	-120.51	106.07	0	-716.87	2	-110.55	2	-89.61	2.35	-14.69
4	5	3.53	-784.92	-103.66	237.77	0	-626.35	2	-145.68	2	-114.47	2.35	-54.42
5	5	3.53	-784.92	-103.66	237.77	0	-626.35	2	-145.68	2	-114.47	2.35	-54.42
5	6	4.70	-784.92	-86.80	349.65	0	-549.43	2	-175.62	2	-135.60	2.35	-88.10
6	6	4.70	-784.92	-86.80	349.65	0	-549.43	2	-175.62	2	-135.60	2.35	-88.10
6	7	5.88	-784.92	-69.94	441.74	0	-486.10	2	-200.36	2	-152.98	2.35	-115.74
7	7	5.88	-784.92	-69.94	441.74	0	-486.10	2	-200.36	2	-152.98	2.35	-115.74
7	8	7.05	-784.92	-53.09	514.03	0	-436.35	2	-219.91	2	-166.63	2.35	-137.34
8	8	7.05	-784.92	-53.09	514.03	0	-436.35	2	-219.91	2	-166.63	2.35	-137.34
8	9	8.23	-784.92	-36.24	566.52	0	-400.19	2	-234.26	2	-176.54	2.35	-152.90
9	9	8.23	-784.92	-36.24	566.52	0	-400.19	2	-234.26	2	-176.54	2.35	-152.90
9	10	9.40	-784.92	-19.38	599.21	0	-377.62	2	-243.41	2	-182.71	2.35	-162.42
10	10	9.40	-784.92	-19.38	599.21	0	-377.62	2	-243.41	2	-182.71	2.35	-162.42
10	11	10.58	-784.92	-2.53	612.07	0	-368.66	2	-247.36	2	-185.13	2.35	-165.89
11	11	10.58	-784.92	-2.53	612.07	0	-368.66	2	-247.36	2	-185.13	2.35	-165.89
11	12	11.75	-784.92	14.33	605.14	0	-373.28	2	-246.12	2	-183.82	2.35	-163.32
12	12	11.75	-784.92	14.33	605.14	0	-373.28	2	-246.12	2	-183.82	2.35	-163.32
12	13	12.93	-784.92	31.19	578.41	0	-391.48	2	-239.69	2	-178.77	2.35	-154.72
13	13	12.93	-784.92	31.19	578.41	0	-391.48	2	-239.69	2	-178.77	2.35	-154.72
13	14	14.10	-784.92	48.04	531.85	0	-423.29	2	-228.05	2	-169.97	2.35	-140.06
14	14	14.10	-784.92	48.04	531.85	0	-423.29	2	-228.05	2	-169.97	2.35	-140.06
14	15	15.28	-784.92	64.90	465.51	0	-468.67	2	-211.22	2	-157.44	2.35	-119.37
15	15	15.28	-784.92	64.90	465.51	0	-468.67	2	-211.22	2	-157.44	2.35	-119.37
15	16	16.45	-784.92	81.75	379.36	0	-527.66	2	-189.19	2	-141.17	2.35	-92.63
16	16	16.45	-785.45	106.85	379.51	0	-527.13	2	-189.58	2	-141.52	2.35	-93.11
16	17	17.63	-785.60	123.71	243.83	0	-620.26	2	-153.72	2	-116.07	2.35	-51.53
17	17	17.63	-785.60	123.71	243.83	0	-506.26	2	-193.59	2	-154.02	2.35	-108.17
17	18	18.80	-786.07	165.80	77.06	0	-617.90	2	-135.40	2	-109.03	2.35	-41.54
18	18	18.80	-785.09	140.70	76.89	0	-618.28	2	-134.72	2	-108.40	2.35	-40.79
18	19	19.98	-785.09	170.11	-102.04	0	-737.60	2	-73.46	2	-59.65	2.35	31.33
19	19	19.98	-785.09	170.11	-102.04	0	-738.81	2	-69.92	2	-59.54	2.35	30.39
19	20	21.15	-785.23	223.88	-336.48	0	-895.43	2	10.02	2	4.60	2.35	125.66
20	20	21.15	-426.26	223.93	-153.94	0	-464.84	2	-10.87	2	-4.51	2.35	61.60
20	21	22.33	-426.26	284.57	-453.89	0	-664.48	2	90.51	2	77.56	2.35	184.00
21	21	22.33	-426.26	284.57	-453.89	0	-664.48	2	90.51	2	77.56	2.35	184.00
21	22	22.50	-426.26	295.67	-504.88	0	-698.40	2	107.68	2	91.53	2.35	204.87
22	22	22.50	-546.59	295.67	-28.94	0	-469.47	2	-100.15	2	-50.22	2.35	14.09
22	23	23.50	-546.59	336.33	-344.78	0	-679.57	2	6.21	2	36.30	2.35	143.41
23	1023	23.50	-546.59	-390.77	-344.78	0	-679.57	2	6.21	2	36.30	2.35	143.41
23	24	24.50	-546.59	-345.06	24.82	0	-433.68	2	-118.35	2	-64.96	2.35	-7.78
24	24	24.50	-458.86	-345.06	-468.36	0	-702.12	2	91.61	2	77.77	2.35	189.05
24	25	24.95	-458.86	-327.15	-315.17	0	-600.20	2	39.98	2	35.81	2.35	126.42
25	25	24.95	-458.86	-327.15	-315.17	0	-600.20	2	39.98	2	35.81	2.35	126.42
25	26	26.40	-458.86	-261.64	115.28	0	-313.67	2	-105.61	2	-82.01	2.35	-49.08
26	26	26.40	-850.30	-261.62	-83.85	0	-783.02	2	-82.90	2	-72.15	2.35	20.67
26	27	27.85	-850.17	-204.72	252.31	0	-558.61	2	-197.53	2	-164.11	2.35	-115.77
27	27	27.85	-850.17	-204.72	252.31	0	-557.65	2	-200.89	2	-164.12	2.35	-114.70
27	28	29.30	-850.17	-120.87	487.06	0	-400.91	2	-282.01	2	-228.01	2.35	-209.00
28	28	29.30	-1176.82	-151.33	330.42	0	-784.95	2	-267.33	2	-222.79	2.35	-155.20
28	29	30.75	-1176.67	-130.53	535.13	0	-647.67	2	-340.27	2	-277.98	2.35	-236.24
29	29	30.75	-1176.67	-130.53	535.13	0	-815.91	2	-263.04	2	-206.71	2.35	-134.75
29	30	32.20	-1176.53	-109.73	709.68	0	-695.81	2	-310.37	2	-239.43	2.35	-187.55
30	30	32.20	-1176.20	-79.26	709.50	0	-696.40	2	-310.04	2	-239.13	2.35	-187.13
30	31	33.65	-1176.20	-58.45	809.32	0	-627.85	2	-336.47	2	-257.95	2.35	-217.48
31	31	33.65	-1176.20	-58.45	809.32	0	-627.85	2	-336.47	2	-257.95	2.35	-217.48
31	32	35.10	-1176.20	-37.67	879.01	0	-579.97	2	-354.98	2	-271.07	2.35	-238.64
32	32	35.10	-1176.20	-37.67	879.01	0	-579.97	2	-354.98	2	-271.07	2.35	-238.64
32	33	36.55	-1176.20	-16.86	918.51	0	-552.81	2	-365.57	2	-278.50	2.35	-250.58
33	33	36.55	-1176.20	-16.86	918.51	0	-552.81	2	-365.57	2	-278.50	2.35	-250.58
33	34	38.00	-1176.20	7.49	923.51	0	-549.28	2	-367.29	2	-279.39	2.35	-251.90
34	34	38.00	-1176.20	7.49	923.51	0	-549.28	2	-367.29	2	-279.39	2.35	-251.90
34	35	39.45	-1176.20	28.30	897.58	0	-566.97	2	-360.92	2	-274.44	2.35	-243.76
35	35	39.45	-1176.20	28.30	897.58	0	-566.97	2	-360.92	2	-274.44	2.35	-243.76
35	36	40.90	-1176.20	49.10	841.46	0	-605.38	2	-346.63	2	-263.78	2.35	-226.40
36	36	40.90	-1176.20	49.10	841.46	0	-605.38	2	-346.63	2	-263.78	2.35	-226.40
36	37	42.35	-1176.20	69.88	755.20	0	-664.46	2	-324.43	2	-247.44	2.35	-199.86
37	37	42.35	-1176.20	69.88	755.20	0	-664.46	2	-324.43	2	-247.44	2.35	-199.86
37	38	43.80	-1176.20	90.69	638.76	0	-744.26	2	-294.31	2	-225.39	2.35	-164.11
38	38	43.80	-1176.64	121.16	638.95	0	-743.70	2	-294.68	2	-225.73	2.35	-164.56
38	39	45.25	-1176.78	141.96	447.82	0	-875.02	2	-243.66	2	-189.79	2.35	-106.37



CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.IPF75B.EnvTrenGen.MZ-.Tinf.MZ-
...antes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-. Tinf
...1)Pvigas + [.95; 1.05]Fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]Fase4.ISO.To + [.9; 1.1]Fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ- + [0; .3]PAS
Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1176.78	141.96	447.82	0	-705.36	2	-312.42	2	-253.68	2.35	-199.46
39	40	46.70	-1176.94	162.77	226.53	0	-853.60	2	-234.18	2	-193.88	2.35	-111.44
40	40	46.70	-850.10	132.30	383.16	0	-469.49	2	-248.80	2	-199.04	2.35	-165.18
40	41	48.15	-850.10	199.98	146.68	0	-627.39	2	-167.13	2	-134.65	2.35	-70.23
41	41	48.15	-850.10	199.98	146.68	0	-628.11	2	-164.37	2	-134.67	2.35	-71.16
41	42	49.60	-850.25	257.07	-186.96	0	-850.85	2	-50.63	2	-43.39	2.35	64.13
42	42	49.60	-458.86	257.08	12.18	0	-381.59	2	-73.32	2	-53.23	2.35	-5.58
42	43	51.05	-458.86	327.54	-411.02	0	-663.31	2	69.86	2	62.59	2.35	166.76
43	43	51.05	-458.86	327.54	-411.02	0	-663.31	2	69.86	2	62.59	2.35	166.76
43	44	51.50	-458.86	345.02	-563.66	0	-764.86	2	121.30	2	104.41	2.35	229.14
44	44	51.50	-546.59	345.02	-70.48	0	-496.42	2	-88.66	2	-38.32	2.35	32.32
44	45	52.50	-546.59	391.68	-441.55	0	-743.27	2	36.31	2	63.35	2.35	184.09
45	1045	52.50	-546.59	-394.12	-441.55	0	-743.27	2	36.31	2	63.35	2.35	184.09
45	46	53.50	-546.59	-347.36	-67.53	0	-494.47	2	-89.63	2	-39.14	2.35	31.05
46	46	53.50	-458.86	-347.36	-560.71	0	-762.91	2	120.33	2	103.59	2.35	227.88
46	47	53.95	-458.86	-329.85	-406.83	0	-660.54	2	68.49	2	61.43	2.35	164.97
47	47	53.95	-458.86	-329.85	-406.83	0	-660.54	2	68.49	2	61.43	2.35	164.97
47	48	55.40	-458.86	-258.98	21.13	0	-375.66	2	-76.25	2	-55.71	2.35	-9.42
48	48	55.40	-850.28	-258.96	-178.01	0	-844.96	2	-53.55	2	-45.86	2.35	60.31
48	49	56.85	-850.14	-205.20	159.35	0	-619.77	2	-168.51	2	-138.17	2.35	-76.59
49	49	56.85	-850.14	-205.20	159.35	0	-619.04	2	-171.19	2	-138.17	2.35	-75.70
49	50	58.30	-850.14	-124.83	396.36	0	-460.79	2	-253.03	2	-202.70	2.35	-170.85
50	50	58.30	-1176.88	-155.29	239.74	0	-844.87	2	-238.38	2	-197.51	2.35	-117.08
50	51	59.75	-1176.73	-134.50	450.21	0	-703.77	2	-313.17	2	-254.31	2.35	-200.50
51	51	59.75	-1176.73	-134.50	450.21	0	-873.38	2	-244.18	2	-190.22	2.35	-107.18
51	52	61.20	-1176.56	-113.70	630.53	0	-749.37	2	-292.78	2	-224.06	2.35	-161.81
52	52	61.20	-1176.20	-83.23	630.36	0	-749.95	2	-292.45	2	-223.75	2.35	-161.38
52	53	62.65	-1176.20	-62.43	735.95	0	-677.49	2	-320.15	2	-243.70	2.35	-193.56
53	53	62.65	-1176.20	-62.43	735.95	0	-677.49	2	-320.15	2	-243.70	2.35	-193.56
53	54	64.10	-1176.20	-41.62	811.41	0	-625.71	2	-339.95	2	-257.95	2.35	-216.55
54	54	64.10	-1176.20	-41.62	811.41	0	-625.71	2	-339.95	2	-257.95	2.35	-216.55
54	55	65.55	-1176.20	-20.83	856.69	0	-594.63	2	-351.83	2	-266.51	2.35	-230.33
55	55	65.55	-1176.20	-20.83	856.69	0	-594.63	2	-351.83	2	-266.51	2.35	-230.33
55	56	67.00	-1176.20	4.33	867.92	0	-586.89	2	-354.93	2	-268.62	2.35	-233.63
56	56	67.00	-1176.20	4.33	867.92	0	-586.89	2	-354.93	2	-268.62	2.35	-233.63
56	57	68.45	-1176.20	25.13	846.57	0	-601.48	2	-349.57	2	-264.57	2.35	-226.93
57	57	68.45	-1176.20	25.13	846.57	0	-601.48	2	-349.57	2	-264.57	2.35	-226.93
57	58	69.90	-1176.20	45.92	795.06	0	-636.76	2	-336.31	2	-254.82	2.35	-211.03
58	58	69.90	-1176.20	45.92	795.06	0	-636.76	2	-336.31	2	-254.82	2.35	-211.03
58	59	71.35	-1176.20	66.73	713.39	0	-692.75	2	-315.13	2	-239.37	2.35	-185.92
59	59	71.35	-1176.20	66.73	713.39	0	-692.75	2	-315.13	2	-239.37	2.35	-185.92
59	60	72.80	-1176.20	87.52	601.54	0	-769.44	2	-286.03	2	-218.23	2.35	-151.62
60	60	72.80	-1176.60	117.98	601.71	0	-768.88	2	-286.37	2	-218.55	2.35	-152.05
60	61	74.25	-1176.76	138.79	415.17	0	-897.10	2	-236.38	2	-183.52	2.35	-95.31
	61	74.25	-1176.76	138.79	415.17	0	-726.90	2	-301.98	2	-244.67	2.35	-185.23
61	62	75.70	-1176.90	159.59	198.45	0	-872.11	2	-225.20	2	-186.15	2.35	-99.08
62	62	75.70	-850.14	129.12	355.08	0	-488.03	2	-239.85	2	-191.33	2.35	-152.85
62	63	77.15	-850.14	198.64	114.08	0	-648.91	2	-156.72	2	-125.70	2.35	-56.11
63	63	77.15	-850.14	198.64	114.08	0	-649.69	2	-153.91	2	-125.70	2.35	-57.02
63	64	78.60	-850.28	259.00	-216.25	0	-870.26	2	-41.18	2	-35.35	2.35	76.92
64	64	78.60	-458.86	259.02	-17.12	0	-400.94	2	-63.88	2	-45.20	2.35	7.18
64	65	80.05	-458.86	317.41	-436.19	0	-679.95	2	78.04	2	69.46	2.35	177.81
65	65	80.05	-458.86	317.41	-436.19	0	-679.95	2	78.04	2	69.46	2.35	177.81
65	66	80.50	-458.86	346.84	-586.64	0	-780.06	2	128.79	2	110.66	2.35	239.27
66	66	80.50	-546.59	346.84	-93.46	0	-511.62	2	-81.18	2	-32.07	2.35	42.45
66	67	81.50	-546.59	393.31	-464.28	0	-758.31	2	43.75	2	69.53	2.35	194.15
67	1067	81.50	-546.59	-421.92	-464.28	0	-758.31	2	43.75	2	69.53	2.35	194.15
67	68	82.50	-546.59	-375.77	-61.78	0	-490.54	2	-91.85	2	-40.75	2.35	29.52
68	68	82.50	-524.08	-375.77	-589.45	0	-838.02	2	122.39	2	103.94	2.35	238.44
68	69	83.08	-524.08	-352.65	-377.45	0	-696.96	2	50.92	2	45.87	2.35	151.80
69	69	83.08	-524.08	-352.65	-377.45	0	-696.96	2	50.92	2	45.87	2.35	151.80
69	70	84.65	-524.08	-276.33	119.07	0	-366.40	2	-117.18	2	-90.01	2.35	-50.39
70	70	84.65	-980.71	-276.32	-113.25	0	-913.87	2	-90.72	2	-78.53	2.35	30.93
70	71	86.23	-980.57	-217.98	277.17	0	-653.27	2	-223.92	2	-185.31	2.35	-127.33
71	71	86.23	-980.57	-217.98	277.17	0	-652.57	2	-226.44	2	-185.31	2.35	-126.51
71	72	87.80	-980.57	-136.10	537.48	0	-478.63	2	-316.82	2	-256.08	2.35	-230.85
72	72	87.80	-1437.72	-170.37	318.12	0	-1016.51	2	-296.07	2	-248.60	2.35	-155.29
72	73	89.38	-1437.57	-147.77	569.11	0	-848.25	2	-385.28	2	-316.34	2.35	-254.83
73	73	89.38	-1437.57	-147.77	569.11	0	-1055.30	2	-298.22	2	-236.32	2.35	-138.76
	74	90.95	-1437.40	-125.18	784.53	0	-907.13	2	-356.30	2	-276.76	2.35	-204.07
	74	90.95	-1437.04	-90.91	784.34	0	-907.73	2	-355.97	2	-276.45	2.35	-203.64
74	75	92.53	-1437.04	-68.32	909.74	0	-821.69	2	-388.84	2	-300.13	2.35	-241.90
75	75	92.53	-1437.04	-68.32	909.74	0	-821.69	2	-388.84	2	-300.13	2.35	-241.90
75	76	94.10	-1437.04	-45.72	999.55	0	-760.06	2	-412.37	2	-317.10	2.35	-269.31
76	76	94.10	-1437.04	-45.72	999.55	0	-760.06	2	-412.37	2	-317.10	2.35	-269.31
76	77	95.68	-1437.04	-23.13	1053.79	0	-722.85	2	-426.56	2	-327.35	2.35	-285.86

CÁLCULO TENSIONAL

Hipótesis de cálculo:
FREC1.IPF75B.EnvTrenGen.MZ-.Tinf.MZ-
Frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-. Tinf
...1)Pvigas + [.95; 1.05]Fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]Fase4.ISO.To + [.9; 1.1]Fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ- + [0; .3]PAS
...f exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1437.04	-23.13	1053.79	0	-722.85	2	-426.56	2	-327.35	2.35	-285.86
77	78	97.25	-1437.04	3.25	1069.13	0	-712.30	2	-430.68	2	-330.24	2.35	-290.46
78	78	97.25	-1437.04	3.25	1069.13	0	-712.30	2	-430.68	2	-330.24	2.35	-290.46
78	79	98.83	-1437.04	25.85	1046.22	0	-727.97	2	-424.88	2	-325.89	2.35	-283.33
79	79	98.83	-1437.04	25.85	1046.22	0	-727.97	2	-424.88	2	-325.89	2.35	-283.33
79	80	100.40	-1437.04	48.44	987.70	0	-768.08	2	-409.73	2	-314.82	2.35	-265.34
80	80	100.40	-1437.04	48.44	987.70	0	-768.08	2	-409.73	2	-314.82	2.35	-265.34
80	81	101.98	-1437.04	71.04	893.64	0	-832.58	2	-385.25	2	-297.04	2.35	-236.50
81	81	101.98	-1437.04	71.04	893.64	0	-832.58	2	-385.25	2	-297.04	2.35	-236.50
81	82	103.55	-1437.04	93.62	763.97	0	-921.51	2	-351.43	2	-272.54	2.35	-196.80
82	82	103.55	-1437.43	127.90	764.16	0	-920.92	2	-351.78	2	-272.86	2.35	-197.24
82	83	105.13	-1437.59	150.48	544.50	0	-1071.95	2	-292.74	2	-231.61	2.35	-130.50
83	83	105.13	-1437.59	150.48	544.50	0	-864.50	2	-377.42	2	-309.57	2.35	-244.18
83	84	106.70	-1437.73	173.08	289.23	0	-1035.59	2	-286.84	2	-240.64	2.35	-142.78
84	84	106.70	-980.55	138.81	508.59	0	-497.69	2	-307.58	2	-248.10	2.35	-218.33
84	85	108.28	-980.55	212.55	239.12	0	-677.68	2	-214.26	2	-174.80	2.35	-110.29
85	85	108.28	-980.55	212.55	239.12	0	-678.33	2	-211.87	2	-174.80	2.35	-111.08
85	86	109.85	-980.69	278.20	-147.86	0	-936.66	2	-79.79	2	-68.99	2.35	45.71
86	86	109.85	-524.08	278.22	84.47	0	-389.21	2	-106.26	2	-80.47	2.35	-35.61
86	87	111.43	-524.08	341.69	-406.34	0	-716.00	2	60.01	2	53.81	2.35	164.14
87	87	111.43	-524.08	341.69	-406.34	0	-716.00	2	60.01	2	53.81	2.35	164.14
87	88	112.00	-524.08	374.56	-615.86	0	-855.41	2	130.68	2	111.20	2.35	249.73
88	88	112.00	-546.59	374.56	-88.19	0	-507.93	2	-83.56	2	-33.50	2.35	40.81
88	89	113.00	-546.59	423.11	-490.91	0	-775.84	2	52.10	2	76.84	2.35	205.54
89	1089	113.00	-546.59	-422.01	-490.91	0	-775.84	2	52.10	2	76.84	2.35	205.54
89	90	114.00	-546.59	-373.49	-89.38	0	-508.72	2	-83.16	2	-33.17	2.35	41.33
90	90	114.00	-524.08	-373.49	-617.05	0	-856.20	2	131.08	2	111.53	2.35	250.25
90	91	114.58	-524.08	-340.69	-408.57	0	-717.48	2	60.75	2	54.43	2.35	165.12
91	91	114.58	-524.08	-340.69	-408.57	0	-717.48	2	60.75	2	54.43	2.35	165.12
91	92	116.15	-524.08	-277.34	80.48	0	-391.86	2	-104.92	2	-79.37	2.35	-33.87
92	92	116.15	-980.68	-277.35	-151.85	0	-939.28	2	-78.46	2	-67.91	2.35	47.44
92	93	117.73	-980.54	-212.04	233.48	0	-682.05	2	-209.99	2	-173.27	2.35	-108.62
93	93	117.73	-980.54	-212.04	233.48	0	-681.39	2	-212.46	2	-173.26	2.35	-107.79
93	94	119.30	-980.54	-143.44	505.89	0	-499.47	2	-306.71	2	-247.38	2.35	-217.05
94	94	119.30	-1437.79	-177.71	286.54	0	-1037.38	2	-286.00	2	-239.93	2.35	-141.53
94	95	120.88	-1437.63	-155.09	549.08	0	-861.49	2	-378.89	2	-310.88	2.35	-246.00
95	95	120.88	-1437.63	-155.09	549.08	0	-1068.87	2	-293.77	2	-232.53	2.35	-131.88
95	96	122.45	-1437.48	-132.51	776.05	0	-912.90	2	-354.43	2	-275.21	2.35	-201.01
96	96	122.45	-1437.04	-98.24	775.86	0	-913.47	2	-354.07	2	-274.87	2.35	-200.55
96	97	124.03	-1437.04	-75.65	912.81	0	-819.61	2	-389.51	2	-300.79	2.35	-242.63
97	97	124.03	-1437.04	-75.65	912.81	0	-819.61	2	-389.51	2	-300.79	2.35	-242.63
97	98	125.60	-1437.04	-53.05	1014.17	0	-750.17	2	-415.61	2	-319.98	2.35	-273.84
98	98	125.60	-1437.04	-53.05	1014.17	0	-750.17	2	-415.61	2	-319.98	2.35	-273.84
98	99	127.18	-1437.04	-30.46	1079.93	0	-705.16	2	-432.37	2	-332.46	2.35	-294.20
99	99	127.18	-1437.04	-30.46	1079.93	0	-705.16	2	-432.37	2	-332.46	2.35	-294.20
99	100	128.75	-1437.04	-7.88	1110.13	0	-684.56	2	-439.80	2	-338.22	2.35	-303.71
100	100	128.75	-1437.04	-7.88	1110.13	0	-684.56	2	-439.80	2	-338.22	2.35	-303.71
100	101	130.33	-1437.04	14.72	1104.76	0	-688.37	2	-437.90	2	-337.26	2.35	-302.37
101	101	130.33	-1437.04	14.72	1104.76	0	-688.37	2	-437.90	2	-337.26	2.35	-302.37
101	102	131.90	-1437.04	40.74	1060.30	0	-718.96	2	-425.87	2	-328.91	2.35	-289.02
102	102	131.90	-1437.04	40.74	1060.30	0	-718.96	2	-425.87	2	-328.91	2.35	-289.02
102	103	133.48	-1437.04	63.34	978.34	0	-775.27	2	-404.09	2	-313.47	2.35	-264.17
103	103	133.48	-1437.04	63.34	978.34	0	-775.27	2	-404.09	2	-313.47	2.35	-264.17
103	104	135.05	-1437.04	85.93	860.78	0	-856.01	2	-372.96	2	-291.30	2.35	-228.47
104	104	135.05	-1437.35	120.21	860.98	0	-855.39	2	-373.29	2	-291.60	2.35	-228.89
104	105	136.63	-1437.50	142.80	653.41	0	-998.24	2	-316.94	2	-252.68	2.35	-166.14
105	105	136.63	-1437.50	142.80	653.41	0	-792.56	2	-412.18	2	-339.82	2.35	-290.31
105	106	138.20	-1437.67	165.40	410.25	0	-955.66	2	-325.48	2	-274.26	2.35	-194.09
106	106	138.20	-980.58	131.12	629.61	0	-417.79	2	-346.25	2	-281.75	2.35	-269.66
106	107	139.78	-980.58	219.50	369.90	0	-591.33	2	-256.06	2	-211.16	2.35	-165.50
107	107	139.78	-980.58	219.50	369.90	0	-592.20	2	-253.02	2	-211.15	2.35	-166.48
107	108	141.35	-980.72	281.43	-21.81	0	-853.66	2	-119.38	2	-104.02	2.35	-7.65
108	108	141.35	-524.08	281.46	210.52	0	-306.16	2	-145.85	2	-115.50	2.35	-88.98
108	109	142.93	-524.08	352.10	-291.76	0	-640.53	2	24.12	2	21.96	2.35	115.68
109	109	142.93	-524.08	352.10	-291.76	0	-640.53	2	24.12	2	21.96	2.35	115.68
109	110	143.50	-524.08	383.82	-502.89	0	-781.00	2	95.32	2	79.79	2.35	201.95
110	110	143.50	-546.59	383.82	24.78	0	-433.52	2	-118.92	2	-64.90	2.35	-6.97
110	111	144.50	-546.59	420.54	-376.95	0	-700.79	2	16.46	2	45.15	2.35	157.35
111	1111	144.50	-546.59	-337.96	-376.95	0	-700.79	2	16.46	2	45.15	2.35	157.35
111	112	145.50	-546.59	-294.65	-60.80	0	-490.49	2	-90.00	2	-41.44	2.35	27.89
112	112	145.50	-426.26	-294.65	-536.73	0	-719.41	2	117.83	2	100.31	2.35	218.67
112	113	145.68	-426.26	-274.42	-486.20	0	-685.80	2	100.81	2	86.47	2.35	197.99
113	113	145.68	-426.26	-274.42	-486.20	0	-685.80	2	100.81	2	86.47	2.35	197.99
113	114	146.85	-426.26	-225.69	-190.98	0	-489.28	2	0.94	2	5.70	2.35	77.59
114	114	146.85	-785.23	-225.65	-373.51	0	-919.86	2	21.82	2	14.82	2.35	141.66
114	115	148.03	-785.09	-166.93	-142.56	0	-765.55	2	-56.99	2	-48.35	2.35	47.86

CÁLCULO TENSIONAL

Hipótesis de cálculo:

FREC1.IPF75B.EnvTrenGen.MZ-.Tinf.MZ-

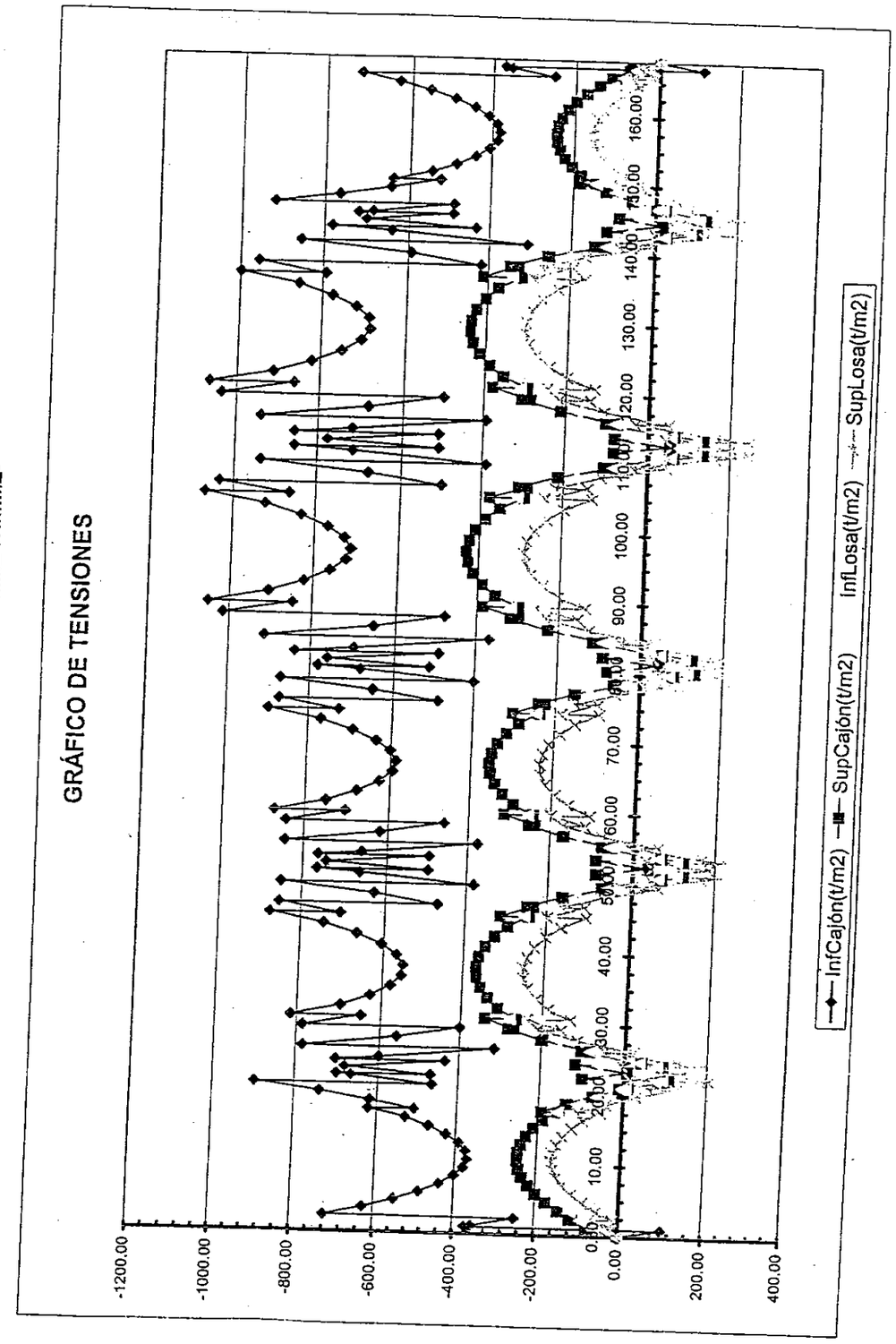
Envolvente con gradiente. Dominante IPF75B.EnvTrenGen.MZ-.Tinf

1.- [1.35*Cargas + [.95; 1.05]Fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]Fase4.ISO.To + [.9; 1.1]Fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; .732]IPF75B.MZ- + [0; .3]PA

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-785.09	-166.93	-142.56	0	-764.34	2	-60.51	2	-48.46	2.35	48.80
115	116	149.20	-785.09	-142.80	37.24	0	-644.44	2	-122.06	2	-97.45	2.35	-23.71
116	116	149.20	-786.08	-167.91	37.42	0	-644.07	2	-122.74	2	-98.08	2.35	-24.46
116	117	150.38	-785.61	-125.32	215.07	0	-525.23	2	-184.41	2	-146.10	2.35	-95.59
117	117	150.38	-785.61	-125.32	215.07	0	-639.71	2	-147.32	2	-110.56	2.35	-41.74
117	118	151.55	-785.47	-108.46	352.67	0	-545.29	2	-183.61	2	-136.39	2.35	-83.97
118	118	151.55	-784.92	-83.38	352.52	0	-545.81	2	-183.22	2	-136.03	2.35	-83.49
118	119	152.73	-784.92	-66.52	440.59	0	-485.53	2	-205.67	2	-152.66	2.35	-110.88
119	119	152.73	-784.92	-66.52	440.59	0	-485.53	2	-205.67	2	-152.66	2.35	-110.88
119	120	153.90	-784.92	-49.66	508.85	0	-438.85	2	-222.93	2	-165.56	2.35	-132.23
120	120	153.90	-784.92	-49.66	508.85	0	-438.85	2	-222.93	2	-165.56	2.35	-132.23
120	121	155.08	-784.92	-32.81	557.31	0	-405.75	2	-234.99	2	-174.72	2.35	-147.53
121	121	155.08	-784.92	-32.81	557.31	0	-405.75	2	-234.99	2	-174.72	2.35	-147.53
121	122	156.25	-784.92	-15.95	585.97	0	-386.24	2	-241.86	2	-180.14	2.35	-156.79
122	122	156.25	-784.92	-15.95	585.97	0	-386.24	2	-241.86	2	-180.14	2.35	-156.79
122	123	157.43	-784.92	0.89	594.81	0	-380.33	2	-243.52	2	-181.82	2.35	-160.01
123	123	157.43	-784.92	0.89	594.81	0	-380.33	2	-243.52	2	-181.82	2.35	-160.01
123	124	158.60	-784.92	17.75	583.88	0	-387.99	2	-240.00	2	-179.77	2.35	-157.20
124	124	158.60	-784.92	17.75	583.88	0	-387.99	2	-240.00	2	-179.77	2.35	-157.20
4	125	159.78	-784.92	34.60	553.12	0	-409.26	2	-231.27	2	-173.97	2.35	-148.34
25	125	159.78	-784.92	34.60	553.12	0	-409.26	2	-231.27	2	-173.97	2.35	-148.34
125	126	160.95	-784.92	51.46	502.52	0	-444.14	2	-217.34	2	-164.42	2.35	-133.42
126	126	160.95	-784.92	51.46	502.52	0	-444.14	2	-217.34	2	-164.42	2.35	-133.42
126	127	162.13	-784.92	68.32	432.17	0	-492.58	2	-198.23	2	-151.15	2.35	-112.48
127	127	162.13	-784.92	68.32	432.17	0	-492.58	2	-198.23	2	-151.15	2.35	-112.48
127	128	163.30	-784.92	85.17	342.00	0	-554.61	2	-173.91	2	-134.13	2.35	-85.49
128	128	163.30	-784.92	85.17	342.00	0	-554.61	2	-173.91	2	-134.13	2.35	-85.49
128	129	164.48	-784.92	102.03	232.02	0	-630.24	2	-144.40	2	-113.37	2.35	-52.46
129	129	164.48	-784.92	102.03	232.02	0	-630.24	2	-144.40	2	-113.37	2.35	-52.46
129	130	165.65	-784.92	118.89	102.23	0	-719.46	2	-109.70	2	-88.87	2.35	-13.39
130	130	165.65	-426.26	118.89	257.60	0	-251.17	2	-116.30	2	-86.08	2.35	-67.86
130	131	166.83	-426.26	135.74	108.01	0	-353.98	2	-76.40	2	-57.84	2.35	-22.75
131	131	166.83	-426.26	135.74	108.01	0	-353.98	2	-76.40	2	-57.84	2.35	-22.75
131	132	167.00	-426.26	138.26	84.01	0	-370.47	2	-70.00	2	-53.31	2.35	-15.51
132	132	167.00	0.00	138.26	148.76	0	102.25	2	-39.72	2	-28.07	2.35	-44.92
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

04/09/01
Programa DINTEL IDEAM S.A.
FREC1.IPF75B.EnvTrenGen.MZ-.Tinf.MZ-
combi_ti.xls



CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.GRAD.Tinf.MZ+
...rentes con gradiente. Dominante GRAD. Tinf

...1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .976]IPF75B.MZ+ + [0; .4]PAS
Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-306.44	323.31	0	220.35	2	-78.57	2	-61.81	2.35	-102.10
2	2	1.00	-376.11	-306.44	275.75	0	-196.74	2	-105.29	2	-64.07	2.35	-76.21
2	3	1.18	-376.11	-301.34	328.54	0	-160.77	2	-118.09	2	-94.16	2.35	-92.89
3	3	1.18	-376.11	-301.34	328.54	0	-160.77	2	-118.09	2	-94.16	2.35	-92.89
3	4	2.35	-376.11	-267.67	659.45	0	64.73	2	-198.35	2	-157.45	2.35	-197.43
4	4	2.35	-692.58	-267.67	530.42	0	-348.52	2	-192.30	2	-159.93	2.35	-149.44
4	5	3.53	-692.58	-234.06	819.73	0	-151.36	2	-262.52	2	-215.26	2.35	-240.81
5	5	3.53	-692.58	-234.06	819.73	0	-151.36	2	-262.52	2	-215.26	2.35	-240.81
5	6	4.70	-692.58	-200.26	1071.13	0	19.96	2	-323.51	2	-263.35	2.35	-320.23
6	6	4.70	-692.58	-200.26	1071.13	0	19.96	2	-323.51	2	-263.35	2.35	-320.23
6	7	5.88	-692.58	-166.33	1283.69	0	164.80	2	-375.07	2	-304.02	2.35	-387.40
7	7	5.88	-692.58	-166.33	1283.69	0	164.80	2	-375.07	2	-304.02	2.35	-387.40
7	8	7.05	-692.58	-125.99	1455.53	0	281.90	2	-416.77	2	-336.91	2.35	-441.68
8	8	7.05	-692.58	-125.99	1455.53	0	281.90	2	-416.77	2	-336.91	2.35	-441.68
8	9	8.23	-692.58	-92.39	1586.86	0	371.41	2	-448.67	2	-362.05	2.35	-483.16
9	9	8.23	-692.58	-92.39	1586.86	0	371.41	2	-448.67	2	-362.05	2.35	-483.16
9	10	9.40	-692.58	-58.59	1679.47	0	434.52	2	-471.16	2	-379.80	2.35	-512.42
)	10	9.40	-692.58	-58.59	1679.47	0	434.52	2	-471.16	2	-379.80	2.35	-512.42
10	11	10.58	-692.58	-31.51	1732.97	0	470.98	2	-484.15	2	-390.07	2.35	-529.33
11	11	10.58	-692.58	-31.51	1732.97	0	470.98	2	-484.15	2	-390.07	2.35	-529.33
11	12	11.75	-692.58	8.35	1744.60	0	478.92	2	-487.04	2	-392.33	2.35	-532.99
12	12	11.75	-692.58	8.35	1744.60	0	478.92	2	-487.04	2	-392.33	2.35	-532.99
12	13	12.93	-692.58	36.68	1718.08	0	460.85	2	-480.65	2	-387.31	2.35	-524.61
13	13	12.93	-692.58	36.68	1718.08	0	460.85	2	-480.65	2	-387.31	2.35	-524.61
13	14	14.10	-692.58	75.76	1651.68	0	415.61	2	-464.59	2	-374.67	2.35	-503.64
14	14	14.10	-692.58	75.76	1651.68	0	415.61	2	-464.59	2	-374.67	2.35	-503.64
14	15	15.28	-692.58	103.63	1547.24	0	344.44	2	-439.28	2	-354.75	2.35	-470.67
15	15	15.28	-692.58	103.63	1547.24	0	344.44	2	-439.28	2	-354.75	2.35	-470.67
15	16	16.45	-692.58	137.25	1402.06	0	245.52	2	-404.11	2	-327.06	2.35	-424.83
16	16	16.45	-693.80	160.16	1402.21	0	245.80	2	-404.72	2	-327.60	2.35	-425.49
16	17	17.63	-694.14	193.94	1189.73	0	100.69	2	-352.02	2	-287.31	2.35	-358.97
17	17	17.63	-694.14	193.94	1189.73	0	188.66	2	-480.77	2	-402.51	2.35	-502.81
17	18	18.80	-694.20	202.60	948.01	0	27.72	2	-398.64	2	-336.54	2.35	-404.08
18	18	18.80	-692.61	179.70	947.85	0	27.55	2	-397.79	2	-335.77	2.35	-403.18
18	19	19.98	-692.61	204.32	716.92	0	-126.08	2	-319.93	2	-272.60	2.35	-308.27
19	19	19.98	-692.61	204.32	716.92	0	-127.08	2	-317.03	2	-272.51	2.35	-309.05
19	20	21.15	-692.75	167.93	505.41	0	-268.52	2	-244.48	2	-214.74	2.35	-222.84
20	20	21.15	-376.11	167.96	659.25	0	110.60	2	-262.75	2	-222.45	2.35	-278.81
20	21	22.33	-376.11	158.08	472.32	0	-14.39	2	-197.54	2	-171.74	2.35	-203.82
21	21	22.33	-376.11	158.08	472.32	0	-14.39	2	-197.54	2	-171.74	2.35	-203.82
21	22	22.50	-376.11	151.50	445.53	0	-32.32	2	-188.11	2	-164.49	2.35	-193.15
22	22	22.50	-692.34	151.50	978.86	0	87.17	2	-456.14	2	-350.31	2.35	-420.62
22	23	23.50	-692.34	158.40	823.76	0	-16.77	2	-401.19	2	-308.40	2.35	-359.10
)	1023	23.50	-692.34	-190.51	823.76	0	-16.77	2	-401.19	2	-308.40	2.35	-359.10
23	24	24.50	-692.34	-188.82	1009.98	0	108.02	2	-467.14	2	-358.76	2.35	-432.82
24	24	24.50	-404.88	-188.82	462.09	0	-46.26	2	-197.23	2	-172.11	2.35	-200.08
24	25	24.95	-404.88	-191.00	544.92	0	9.20	2	-226.38	2	-194.55	2.35	-233.02
25	25	24.95	-404.88	-191.00	544.92	0	9.20	2	-226.38	2	-194.55	2.35	-233.02
25	26	26.40	-404.88	-190.92	818.58	0	192.17	2	-321.85	2	-268.84	2.35	-342.58
26	26	26.40	-750.26	-190.90	650.75	0	-221.13	2	-302.01	2	-260.53	2.35	-281.67
26	27	27.85	-750.13	-215.16	958.78	0	-15.33	2	-407.62	2	-344.67	2.35	-406.92
27	27	27.85	-750.13	-215.16	958.78	0	-14.57	2	-410.27	2	-344.68	2.35	-406.07
27	28	29.30	-750.13	-249.44	1301.01	0	213.14	2	-525.73	2	-438.39	2.35	-546.23
28	28	29.30	-1039.70	-277.24	1169.37	0	-125.36	2	-513.43	2	-434.54	2.35	-499.72
28	29	30.75	-1039.33	-235.38	1545.68	0	125.25	2	-640.90	2	-537.33	2.35	-653.42
29	29	30.75	-1039.33	-235.38	1545.68	0	-10.63	2	-470.04	2	-384.60	2.35	-460.58
29	30	32.20	-1039.00	-193.30	1861.92	0	205.33	2	-548.55	2	-444.70	2.35	-559.74
30	30	32.20	-1037.82	-165.49	1861.75	0	205.04	2	-547.95	2	-444.17	2.35	-559.09
30	31	33.65	-1037.82	-124.53	2075.27	0	350.53	2	-599.68	2	-484.97	2.35	-626.61
31	31	33.65	-1037.82	-124.53	2075.27	0	350.53	2	-599.68	2	-484.97	2.35	-626.61
31	32	35.10	-1037.82	-88.96	2229.97	0	455.93	2	-637.12	2	-514.53	2.35	-675.57
32	32	35.10	-1037.82	-88.96	2229.97	0	455.93	2	-637.12	2	-514.53	2.35	-675.57
32	33	36.55	-1037.82	-40.59	2324.48	0	520.30	2	-659.96	2	-532.60	2.35	-705.52
33	33	36.55	-1037.82	-40.59	2324.48	0	520.30	2	-659.96	2	-532.60	2.35	-705.52
33	34	38.00	-1037.82	-5.01	2356.22	0	541.93	2	-667.62	2	-538.66	2.35	-715.61
34	34	38.00	-1037.82	-5.01	2356.22	0	541.93	2	-667.62	2	-538.66	2.35	-715.61
34	35	39.45	-1037.82	35.95	2331.22	0	524.87	2	-661.46	2	-533.89	2.35	-707.83
35	35	39.45	-1037.82	35.95	2331.22	0	524.87	2	-661.46	2	-533.89	2.35	-707.83
35	36	40.90	-1037.82	84.31	2243.39	0	465.00	2	-640.11	2	-517.10	2.35	-680.17
36	36	40.90	-1037.82	84.31	2243.39	0	465.00	2	-640.11	2	-517.10	2.35	-680.17
36	37	42.35	-1037.82	119.88	2095.48	0	364.20	2	-604.18	2	-488.83	2.35	-633.53
37	37	42.35	-1037.82	119.88	2095.48	0	364.20	2	-604.18	2	-488.83	2.35	-633.53
37	38	43.80	-1037.82	160.83	1888.65	0	223.23	2	-553.94	2	-449.31	2.35	-568.31
38	38	43.80	-1038.96	188.65	1888.82	0	223.55	2	-554.53	2	-449.83	2.35	-568.95
38	39	45.25	-1039.30	230.74	1579.29	0	12.12	2	-477.52	2	-391.02	2.35	-472.08

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.GRAD.Tinf.MZ+
...frecuentes con gradiente. Dominante GRAD. Tinf

...1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .976]IPF75B.MZ+ + [0; .4]PAS
...ef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1039.30	230.74	1579.29	0	147.43	2	-651.63	2	-546.57	2.35	-668.19
39	40	46.70	-1039.68	272.61	1209.74	0	-98.73	2	-526.32	2	-445.63	2.35	-517.47
40	40	46.70	-750.11	244.78	1341.37	0	239.78	2	-538.62	2	-449.48	2.35	-563.97
40	41	48.15	-750.11	232.11	985.92	0	3.33	2	-418.94	2	-352.09	2.35	-418.26
41	41	48.15	-750.11	232.11	985.92	0	2.75	2	-416.73	2	-352.10	2.35	-419.00
41	42	49.60	-750.26	209.96	663.22	0	-212.74	2	-306.51	2	-263.88	2.35	-287.58
42	42	49.60	-404.88	209.98	831.05	0	200.51	2	-326.32	2	-272.16	2.35	-348.44
42	43	51.05	-404.88	200.27	539.45	0	5.70	2	-225.18	2	-192.88	2.35	-231.30
43	43	51.05	-404.88	200.27	539.45	0	5.70	2	-225.18	2	-192.88	2.35	-231.30
43	44	51.50	-404.88	198.14	451.60	0	-53.06	2	-194.45	2	-169.04	2.35	-196.25
44	44	51.50	-692.34	198.14	999.50	0	101.22	2	-464.36	2	-355.69	2.35	-428.99
44	45	52.50	-692.34	199.88	803.42	0	-30.06	2	-395.30	2	-302.59	2.35	-351.12
45	1045	52.50	-692.34	-189.66	803.42	0	-30.06	2	-395.30	2	-302.59	2.35	-351.12
45	46	53.50	-692.34	-187.95	989.11	0	94.37	2	-461.06	2	-352.81	2.35	-424.56
46	46	53.50	-404.88	-187.95	441.21	0	-59.91	2	-191.15	2	-166.16	2.35	-191.82
46	47	53.95	-404.88	-190.11	524.28	0	-4.31	2	-220.36	2	-188.66	2.35	-224.83
47	47	53.95	-404.88	-190.11	524.28	0	-4.31	2	-220.36	2	-188.66	2.35	-224.83
47	48	55.40	-404.88	-202.99	801.60	0	181.07	2	-316.95	2	-263.98	2.35	-335.89
48	48	55.40	-750.26	-202.97	633.76	0	-232.19	2	-297.13	2	-255.70	2.35	-275.01
48	49	56.85	-750.12	-220.81	950.03	0	-20.95	2	-405.33	2	-342.13	2.35	-403.70
49	49	56.85	-750.12	-220.81	950.03	0	-20.37	2	-407.47	2	-342.13	2.35	-402.99
49	50	58.30	-750.12	-250.53	1299.28	0	211.98	2	-525.17	2	-437.80	2.35	-546.12
50	50	58.30	-1039.72	-278.33	1167.65	0	-126.53	2	-512.89	2	-433.96	2.35	-499.63
50	51	59.75	-1039.37	-236.46	1545.50	0	125.09	2	-640.86	2	-537.20	2.35	-653.92
51	51	59.75	-1039.37	-236.46	1545.50	0	-10.77	2	-470.02	2	-384.50	2.35	-461.06
51	52	61.20	-1039.00	-194.39	1863.42	0	206.34	2	-548.88	2	-444.92	2.35	-560.71
52	52	61.20	-1037.82	-166.57	1863.25	0	206.05	2	-548.29	2	-444.39	2.35	-560.06
52	53	62.65	-1037.82	-125.62	2078.32	0	352.58	2	-600.36	2	-485.50	2.35	-628.02
53	53	62.65	-1037.82	-125.62	2078.32	0	352.58	2	-600.36	2	-485.50	2.35	-628.02
53	54	64.10	-1037.82	-90.04	2234.61	0	459.06	2	-638.15	2	-515.39	2.35	-677.44
54	54	64.10	-1037.82	-90.04	2234.61	0	459.06	2	-638.15	2	-515.39	2.35	-677.44
54	55	65.55	-1037.82	-41.69	2330.73	0	524.53	2	-661.35	2	-533.77	2.35	-707.86
55	55	65.55	-1037.82	-41.69	2330.73	0	524.53	2	-661.35	2	-533.77	2.35	-707.86
55	56	67.00	-1037.82	-6.10	2364.06	0	547.23	2	-669.36	2	-540.16	2.35	-718.41
56	56	67.00	-1037.82	-6.10	2364.06	0	547.23	2	-669.36	2	-540.16	2.35	-718.41
56	57	68.45	-1037.82	34.84	2340.68	0	531.26	2	-663.56	2	-535.71	2.35	-711.11
57	57	68.45	-1037.82	34.84	2340.68	0	531.26	2	-663.56	2	-535.71	2.35	-711.11
57	58	69.90	-1037.82	83.20	2254.45	0	472.48	2	-642.56	2	-519.24	2.35	-683.91
58	58	69.90	-1037.82	83.20	2254.45	0	472.48	2	-642.56	2	-519.24	2.35	-683.91
58	59	71.35	-1037.82	118.78	2108.14	0	372.76	2	-606.99	2	-491.30	2.35	-637.74
59	59	71.35	-1037.82	118.78	2108.14	0	372.76	2	-606.99	2	-491.30	2.35	-637.74
59	60	72.80	-1037.82	159.73	1902.94	0	232.90	2	-557.11	2	-452.10	2.35	-572.99
60	60	72.80	-1038.94	187.54	1903.10	0	233.21	2	-557.69	2	-452.62	2.35	-573.62
60	61	74.25	-1039.32	229.63	1595.11	0	22.81	2	-481.03	2	-394.12	2.35	-477.21
61	61	74.25	-1039.32	229.63	1595.11	0	157.87	2	-656.68	2	-551.02	2.35	-674.84
61	62	75.70	-1039.66	271.49	1227.19	0	-87.20	2	-531.88	2	-450.53	2.35	-524.73
62	62	75.70	-750.12	243.67	1358.82	0	251.30	2	-544.19	2	-454.40	2.35	-571.25
62	63	77.15	-750.12	228.71	1013.45	0	21.52	2	-427.73	2	-359.82	2.35	-429.55
63	63	77.15	-750.12	228.71	1013.45	0	20.90	2	-425.47	2	-359.82	2.35	-430.29
63	64	78.60	-750.26	202.20	690.10	0	-195.03	2	-314.99	2	-271.43	2.35	-298.51
64	64	78.60	-404.88	202.22	857.94	0	218.25	2	-334.83	2	-279.73	2.35	-359.41
64	65	80.05	-404.88	192.57	573.29	0	28.03	2	-235.88	2	-202.39	2.35	-245.16
65	65	80.05	-404.88	192.57	573.29	0	28.03	2	-235.88	2	-202.39	2.35	-245.16
65	66	80.50	-404.88	190.44	488.40	0	-28.78	2	-206.08	2	-179.38	2.35	-211.35
66	66	80.50	-692.34	190.44	1036.29	0	125.51	2	-475.98	2	-366.03	2.35	-444.09
66	67	81.50	-692.34	192.19	847.57	0	-0.93	2	-409.25	2	-314.98	2.35	-369.31
67	1067	81.50	-692.34	-209.48	847.57	0	-0.93	2	-409.25	2	-314.98	2.35	-369.31
67	68	82.50	-692.34	-210.20	1052.27	0	136.21	2	-481.64	2	-370.35	2.35	-450.37
68	68	82.50	-462.42	-210.20	475.26	0	-87.66	2	-208.00	2	-182.04	2.35	-207.07
68	69	83.08	-462.42	-212.76	593.51	0	-8.52	2	-249.50	2	-214.10	2.35	-254.15
69	69	83.08	-462.42	-212.76	593.51	0	-8.52	2	-249.50	2	-214.10	2.35	-254.15
69	70	84.65	-462.42	-223.66	928.33	0	215.24	2	-365.92	2	-305.08	2.35	-388.46
70	70	84.65	-865.35	-223.65	732.52	0	-266.85	2	-342.80	2	-295.42	2.35	-317.46
70	71	86.23	-865.21	-249.98	1109.43	0	-15.21	2	-471.66	2	-398.42	2.35	-470.88
71	71	86.23	-865.21	-249.98	1109.43	0	-14.66	2	-473.63	2	-398.43	2.35	-470.24
71	72	87.80	-865.21	-274.18	1538.49	0	270.71	2	-617.93	2	-516.02	2.35	-646.09
72	72	87.80	-1269.90	-305.46	1354.14	0	-203.23	2	-600.35	2	-510.30	2.35	-580.60
72	73	89.38	-1269.56	-260.11	1793.93	0	89.69	2	-749.54	2	-630.46	2.35	-760.09
73	73	89.38	-1269.56	-260.11	1793.93	0	-77.96	2	-549.09	2	-451.72	2.35	-533.36
73	74	90.95	-1269.13	-208.50	2165.26	0	175.70	2	-641.43	2	-522.27	2.35	-649.68
74	74	90.95	-1267.98	-177.22	2165.07	0	175.38	2	-640.84	2	-521.74	2.35	-649.03
74	75	92.53	-1267.98	-131.83	2414.05	0	345.04	2	-701.22	2	-569.33	2.35	-727.67
75	75	92.53	-1267.98	-131.83	2414.05	0	345.04	2	-701.22	2	-569.33	2.35	-727.67
75	76	94.10	-1267.98	-93.43	2590.84	0	465.51	2	-744.11	2	-603.11	2.35	-783.49
76	76	94.10	-1267.98	-93.43	2590.84	0	465.51	2	-744.11	2	-603.11	2.35	-783.49
76	77	95.68	-1267.98	-48.16	2697.75	0	538.36	2	-770.03	2	-623.55	2.35	-817.27

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.GRAD.TInf.MZ+

...rentes con gradiente. Dominante GRAD. Tinf

...1,...gas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .976]PF758.MZ+ + [0; .4]PAS

Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1267.98	-48.16	2697.75	0	538.36	2	-770.03	2	-623.55	2.35	-817.27
77	78	97.25	-1267.98	-2.44	2731.11	0	561.10	2	-778.16	2	-629.92	2.35	-827.77
78	78	97.25	-1267.98	-2.44	2731.11	0	561.10	2	-778.16	2	-629.92	2.35	-827.77
78	79	98.83	-1267.98	48.92	2696.58	0	537.57	2	-769.77	2	-623.33	2.35	-816.88
79	79	98.83	-1267.98	48.92	2696.58	0	537.57	2	-769.77	2	-623.33	2.35	-816.88
79	80	100.40	-1267.98	94.19	2588.46	0	463.90	2	-743.57	2	-602.67	2.35	-782.72
80	80	100.40	-1267.98	94.19	2588.46	0	463.90	2	-743.57	2	-602.67	2.35	-782.72
80	81	101.98	-1267.98	132.59	2410.53	0	342.65	2	-700.43	2	-568.67	2.35	-726.52
81	81	101.98	-1267.98	132.59	2410.53	0	342.65	2	-700.43	2	-568.67	2.35	-726.52
81	82	103.55	-1267.98	177.97	2160.35	0	172.18	2	-639.78	2	-520.86	2.35	-647.49
82	82	103.55	-1269.12	209.26	2160.53	0	172.50	2	-640.37	2	-521.39	2.35	-648.13
82	83	105.13	-1269.55	260.87	1788.02	0	-81.96	2	-547.76	2	-450.61	2.35	-531.43
83	83	105.13	-1269.55	260.87	1788.02	0	85.80	2	-747.65	2	-628.86	2.35	-757.59
83	84	106.70	-1269.88	306.22	1347.07	0	-207.89	2	-598.08	2	-508.39	2.35	-577.61
84	84	106.70	-865.19	274.93	1531.43	0	266.05	2	-615.66	2	-514.11	2.35	-643.10
84	85	108.28	-865.19	261.96	1103.49	0	-18.57	2	-471.72	2	-396.84	2.35	-467.49
85	85	108.28	-865.19	261.96	1103.49	0	-19.09	2	-469.82	2	-396.85	2.35	-468.11
85	86	109.85	-865.33	226.32	708.15	0	-282.90	2	-335.09	2	-288.74	2.35	-306.80
86	86	109.85	-462.42	226.34	903.96	0	199.18	2	-358.20	2	-298.39	2.35	-377.79
	87	111.43	-462.42	215.78	559.31	0	-31.06	2	-238.66	2	-204.70	2.35	-239.27
87	87	111.43	-462.42	215.78	559.31	0	-31.06	2	-238.66	2	-204.70	2.35	-239.27
87	88	112.00	-462.42	213.66	438.76	0	-111.72	2	-196.42	2	-172.01	2.35	-191.19
88	88	112.00	-692.34	213.66	1015.77	0	112.16	2	-470.07	2	-360.32	2.35	-434.50
88	89	113.00	-692.34	212.98	807.15	0	-27.58	2	-396.43	2	-303.86	2.35	-351.74
89	1089	113.00	-692.34	-219.85	807.15	0	-27.58	2	-396.43	2	-303.86	2.35	-351.74
89	90	114.00	-692.34	-220.50	1022.73	0	116.75	2	-472.28	2	-362.26	2.35	-437.45
90	90	114.00	-462.42	-220.50	445.72	0	-107.13	2	-198.63	2	-173.95	2.35	-194.14
90	91	114.58	-462.42	-220.70	570.16	0	-23.90	2	-242.10	2	-207.72	2.35	-243.87
91	91	114.58	-462.42	-220.70	570.16	0	-23.90	2	-242.10	2	-207.72	2.35	-243.87
91	92	116.15	-462.42	-231.10	922.87	0	211.65	2	-364.20	2	-303.65	2.35	-385.81
92	92	116.15	-865.34	-231.10	727.06	0	-270.40	2	-341.10	2	-294.01	2.35	-314.83
92	93	117.73	-865.20	-266.25	1128.04	0	-2.88	2	-477.61	2	-403.68	2.35	-478.52
93	93	117.73	-865.20	-266.25	1128.04	0	-2.36	2	-479.57	2	-403.68	2.35	-477.86
93	94	119.30	-865.20	-272.33	1557.48	0	283.25	2	-623.99	2	-521.37	2.35	-654.08
94	94	119.30	-1269.87	-303.61	1373.13	0	-190.67	2	-606.40	2	-515.64	2.35	-588.59
94	95	120.88	-1269.53	-258.26	1810.02	0	100.33	2	-754.67	2	-634.99	2.35	-766.79
95	95	120.88	-1269.53	-258.26	1810.02	0	-67.07	2	-552.65	2	-454.88	2.35	-538.52
95	96	122.45	-1269.10	-206.65	2178.45	0	184.63	2	-644.35	2	-524.87	2.35	-653.85
96	96	122.45	-1267.98	-175.36	2178.28	0	184.31	2	-643.77	2	-524.35	2.35	-653.21
96	97	124.03	-1267.98	-129.98	2424.35	0	352.00	2	-703.50	2	-571.37	2.35	-730.85
97	97	124.03	-1267.98	-129.98	2424.35	0	352.00	2	-703.50	2	-571.37	2.35	-730.85
97	98	125.60	-1267.98	-91.57	2598.23	0	470.51	2	-745.75	2	-604.60	2.35	-785.69
98	98	125.60	-1267.98	-91.57	2598.23	0	470.51	2	-745.75	2	-604.60	2.35	-785.69
98	99	127.18	-1267.98	-46.31	2702.22	0	541.39	2	-771.02	2	-624.46	2.35	-818.46
	99	127.18	-1267.98	-46.31	2702.22	0	541.39	2	-771.02	2	-624.46	2.35	-818.46
	100	128.75	-1267.98	-0.60	2732.68	0	562.17	2	-778.51	2	-630.28	2.35	-827.97
100	100	128.75	-1267.98	-0.60	2732.68	0	562.17	2	-778.51	2	-630.28	2.35	-827.97
100	101	130.33	-1267.98	50.76	2695.23	0	536.66	2	-769.47	2	-623.12	2.35	-816.09
101	101	130.33	-1267.98	50.76	2695.23	0	536.66	2	-769.47	2	-623.12	2.35	-816.09
101	102	131.90	-1267.98	96.04	2584.23	0	461.04	2	-742.63	2	-601.89	2.35	-780.93
102	102	131.90	-1267.98	96.04	2584.23	0	461.04	2	-742.63	2	-601.89	2.35	-780.93
102	103	133.48	-1267.98	134.42	2403.39	0	337.83	2	-698.84	2	-567.33	2.35	-723.74
103	103	133.48	-1267.98	134.42	2403.39	0	337.83	2	-698.84	2	-567.33	2.35	-723.74
103	104	135.05	-1267.98	179.83	2150.29	0	165.38	2	-637.55	2	-518.95	2.35	-643.70
104	104	135.05	-1269.15	211.13	2150.47	0	165.69	2	-638.14	2	-519.49	2.35	-644.36
104	105	136.63	-1269.55	262.72	1775.11	0	-90.68	2	-544.90	2	-448.15	2.35	-526.67
105	105	136.63	-1269.55	262.72	1775.11	0	77.30	2	-743.53	2	-625.32	2.35	-751.55
105	106	138.20	-1269.94	308.07	1331.19	0	-218.37	2	-593.04	2	-504.04	2.35	-570.29
106	106	138.20	-865.20	276.78	1515.55	0	255.59	2	-610.60	2	-509.74	2.35	-635.76
106	107	139.78	-865.20	243.89	1092.74	0	-25.65	2	-468.30	2	-393.88	2.35	-462.58
107	107	139.78	-865.20	243.89	1092.74	0	-26.33	2	-465.93	2	-393.88	2.35	-463.34
107	108	141.35	-865.34	210.27	724.06	0	-272.54	2	-339.68	2	-293.16	2.35	-313.40
108	108	141.35	-462.42	210.30	919.87	0	209.56	2	-362.81	2	-302.83	2.35	-384.41
108	109	142.93	-462.42	210.33	592.11	0	-9.54	2	-248.62	2	-213.81	2.35	-253.10
109	109	142.93	-462.42	210.33	592.11	0	-9.54	2	-248.62	2	-213.81	2.35	-253.10
109	110	143.50	-462.42	195.07	474.86	0	-88.02	2	-207.43	2	-182.04	2.35	-206.43
110	110	143.50	-692.34	195.07	1051.88	0	135.86	2	-481.08	2	-370.35	2.35	-449.74
110	111	144.50	-692.34	209.33	847.68	0	-0.96	2	-408.83	2	-315.12	2.35	-368.87
111	1111	144.50	-692.34	-157.39	847.68	0	-0.96	2	-408.83	2	-315.12	2.35	-368.87
11	112	145.50	-692.34	-150.48	1001.94	0	102.42	2	-463.52	2	-356.78	2.35	-430.04
112	112	145.50	-376.11	-150.48	468.60	0	-17.07	2	-195.48	2	-170.97	2.35	-202.58
113	113	145.68	-376.11	-157.05	495.41	0	0.88	2	-204.92	2	-178.22	2.35	-213.26
113	113	145.68	-376.11	-157.05	495.41	0	0.88	2	-204.92	2	-178.22	2.35	-213.26
114	114	146.85	-376.11	-166.81	683.80	0	126.82	2	-270.60	2	-229.33	2.35	-288.89
114	114	146.85	-692.75	-166.79	529.96	0	-252.29	2	-252.32	2	-221.63	2.35	-232.93
114	115	148.03	-692.61	-209.73	747.90	0	-106.61	2	-326.92	2	-281.18	2.35	-321.89

combi_ti.xls

Programa DINTEL IDEAM S.A.
INFREC1.GRAD.TInf.MZ+

04/09/01

CÁLCULO TENSIONAL

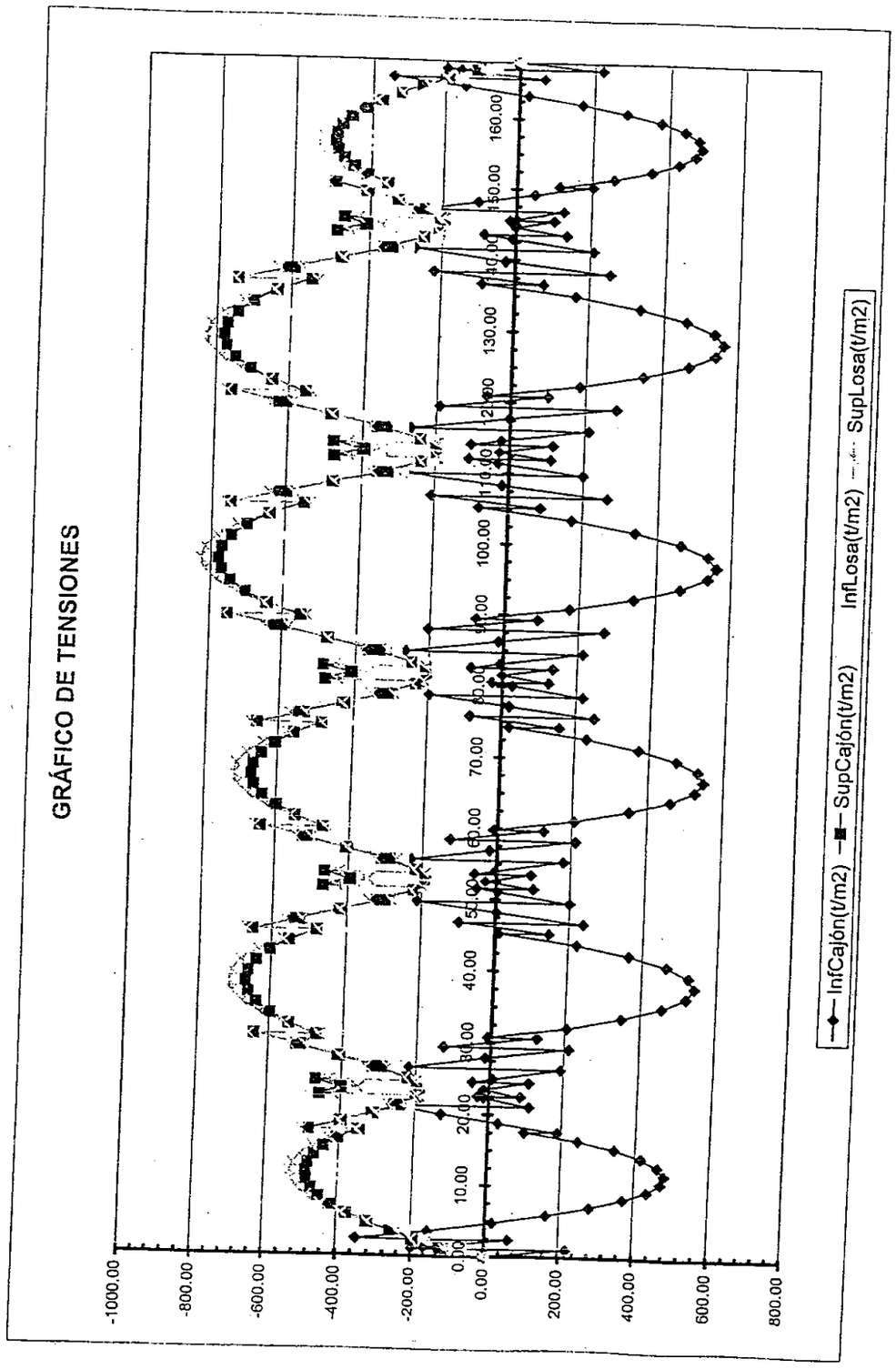
Hipótesis de cálculo:
VFREC1.GRAD.TInf.MZ+

...frecuentes con gradiente. Dominante GRAD. Tinf

...1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .976]PF758.MZ+ + [0; .4]PASI

Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-692.61	-209.73	747.90	0	-105.61	2	-329.83	2	-281.27	2.35	-321.12
115	116	149.20	-692.61	-178.03	979.01	0	48.14	2	-407.74	2	-344.48	2.35	-416.13
116	116	149.20	-694.18	-200.94	979.18	0	48.32	2	-408.59	2	-345.25	2.35	-417.02
116	117	150.38	-694.13	-192.76	1210.49	0	202.37	2	-487.40	2	-408.32	2.35	-511.50
117	117	150.38	-694.13	-192.76	1210.49	0	114.74	2	-356.63	2	-291.37	2.35	-365.67
117	118	151.55	-693.78	-158.95	1421.57	0	258.90	2	-409.01	2	-331.38	2.35	-431.73
118	118	151.55	-692.58	-136.06	1421.42	0	258.62	2	-408.41	2	-330.84	2.35	-431.07
118	119	152.73	-692.58	-102.45	1565.23	0	356.62	2	-443.28	2	-358.27	2.35	-476.48
119	119	152.73	-692.58	-102.45	1565.23	0	356.62	2	-443.28	2	-358.27	2.35	-476.48
119	120	153.90	-692.58	-74.58	1668.31	0	426.86	2	-468.29	2	-377.91	2.35	-509.00
120	120	153.90	-692.58	-74.58	1668.31	0	426.86	2	-468.29	2	-377.91	2.35	-509.00
120	121	155.08	-692.58	-35.51	1733.29	0	471.14	2	-484.03	2	-390.28	2.35	-529.52
121	121	155.08	-692.58	-35.51	1733.29	0	471.14	2	-484.03	2	-390.28	2.35	-529.52
121	122	156.25	-692.58	-7.17	1758.45	0	488.28	2	-490.12	2	-395.04	2.35	-537.45
122	122	156.25	-692.58	-7.17	1758.45	0	488.28	2	-490.12	2	-395.04	2.35	-537.45
122	123	157.43	-692.58	32.68	1745.41	0	479.39	2	-486.92	2	-392.50	2.35	-533.34
123	123	157.43	-692.58	32.68	1745.41	0	479.39	2	-486.92	2	-392.50	2.35	-533.34
123	124	158.60	-692.58	59.77	1690.56	0	442.02	2	-473.62	2	-381.96	2.35	-515.99
124	124	158.60	-692.58	59.77	1690.56	0	442.02	2	-473.62	2	-381.96	2.35	-515.99
124	125	159.78	-692.58	93.56	1596.56	0	377.97	2	-450.82	2	-363.95	2.35	-486.29
125	125	159.78	-692.58	93.56	1596.56	0	377.97	2	-450.82	2	-363.95	2.35	-486.29
125	126	160.95	-692.58	127.18	1463.83	0	287.52	2	-418.61	2	-338.53	2.35	-444.36
126	126	160.95	-692.58	127.18	1463.83	0	287.52	2	-418.61	2	-338.53	2.35	-444.36
126	127	162.13	-692.58	167.53	1290.63	0	169.50	2	-376.61	2	-305.38	2.35	-389.64
127	127	162.13	-692.58	167.53	1290.63	0	169.50	2	-376.61	2	-305.38	2.35	-389.64
127	128	163.30	-692.58	201.43	1076.67	0	23.70	2	-324.74	2	-264.43	2.35	-322.02
128	128	163.30	-692.58	201.43	1076.67	0	23.70	2	-324.74	2	-264.43	2.35	-322.02
128	129	164.48	-692.58	235.24	823.89	0	-148.55	2	-263.45	2	-216.07	2.35	-242.16
129	129	164.48	-692.58	235.24	823.89	0	-148.55	2	-263.45	2	-216.07	2.35	-242.16
129	130	165.65	-692.58	268.85	533.19	0	-346.64	2	-192.92	2	-160.47	2.35	-150.34
130	130	165.65	-376.11	268.85	662.22	0	66.60	2	-198.97	2	-157.99	2.35	-198.32
130	131	166.83	-376.11	302.52	329.90	0	-159.84	2	-118.39	2	-94.43	2.35	-93.33
131	131	166.83	-376.11	302.52	329.90	0	-159.84	2	-118.39	2	-94.43	2.35	-93.33
131	132	167.00	-376.11	307.62	276.88	0	-195.98	2	-105.54	2	-84.29	2.35	-76.58
132	132	167.00	0.00	307.62	324.44	0	221.12	2	-78.82	2	-62.03	2.35	-102.47
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

INFREC1.IPF75B.EnvTrenGen.MZ+.Tinf.MZ+

Infrecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+. Tinf

1. 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ+ + [0; .5]PAS

Ref. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-332.71	350.83	0	238.97	2	-84.69	2	-67.13	2.35	-111.18
2	2	1.00	-376.11	-332.71	303.27	0	-178.12	2	-111.41	2	-89.39	2.35	-85.29
2	3	1.18	-376.11	-327.08	360.51	0	-139.14	2	-125.20	2	-100.34	2.35	-103.43
3	3	1.18	-376.11	-327.08	360.51	0	-139.14	2	-125.20	2	-100.34	2.35	-103.43
3	4	2.35	-376.11	-289.97	718.80	0	104.88	2	-211.56	2	-168.92	2.35	-217.01
4	4	2.35	-692.58	-289.97	589.77	0	-308.36	2	-205.51	2	-171.40	2.35	-169.03
4	5	3.53	-692.58	-252.95	901.91	0	-95.76	2	-280.81	2	-231.14	2.35	-267.92
5	5	3.53	-692.58	-252.95	901.91	0	-95.76	2	-280.81	2	-231.14	2.35	-267.92
5	6	4.70	-692.58	-215.68	1172.53	0	88.56	2	-346.07	2	-282.95	2.35	-353.68
6	6	4.70	-692.58	-215.68	1172.53	0	88.56	2	-346.07	2	-282.95	2.35	-353.68
6	7	5.88	-692.58	-178.25	1400.44	0	243.79	2	-401.04	2	-326.59	2.35	-425.91
7	7	5.88	-692.58	-178.25	1400.44	0	243.79	2	-401.04	2	-326.59	2.35	-425.91
7	8	7.05	-692.58	-132.81	1583.31	0	368.35	2	-445.20	2	-361.60	2.35	-483.83
8	8	7.05	-692.58	-132.81	1583.31	0	368.35	2	-445.20	2	-361.60	2.35	-483.83
8	9	8.23	-692.58	-95.79	1721.41	0	462.43	2	-478.60	2	-388.05	2.35	-527.54
9	9	8.23	-692.58	-95.79	1721.41	0	462.43	2	-478.60	2	-388.05	2.35	-527.54
9	10	9.40	-692.58	-58.53	1816.95	0	527.53	2	-501.75	2	-406.37	2.35	-557.77
10	10	9.40	-692.58	-58.53	1816.95	0	527.53	2	-501.75	2	-406.37	2.35	-557.77
10	11	10.58	-692.58	-29.66	1869.47	0	563.32	2	-514.53	2	-416.45	2.35	-574.36
11	11	10.58	-692.58	-29.66	1869.47	0	563.32	2	-514.53	2	-416.45	2.35	-574.36
11	12	11.75	-692.58	15.18	1875.51	0	567.48	2	-516.17	2	-417.63	2.35	-576.17
12	12	11.75	-692.58	15.18	1875.51	0	567.48	2	-516.17	2	-417.63	2.35	-576.17
12	13	12.93	-692.58	45.61	1839.71	0	543.14	2	-507.71	2	-410.82	2.35	-564.74
13	13	12.93	-692.58	45.61	1839.71	0	543.14	2	-507.71	2	-410.82	2.35	-564.74
13	14	14.10	-692.58	89.47	1759.93	0	488.85	2	-488.68	2	-395.59	2.35	-539.35
14	14	14.10	-692.58	89.47	1759.93	0	488.85	2	-488.68	2	-395.59	2.35	-539.35
14	15	15.28	-692.58	119.33	1638.44	0	406.14	2	-459.57	2	-372.38	2.35	-500.76
15	15	15.28	-692.58	119.33	1638.44	0	406.14	2	-459.57	2	-372.38	2.35	-500.76
15	16	16.45	-692.58	156.36	1471.90	0	292.77	2	-419.65	2	-340.55	2.35	-447.87
16	16	16.45	-694.02	179.28	1472.04	0	292.97	2	-420.33	2	-341.16	2.35	-448.59
16	17	17.63	-694.41	216.52	1234.02	0	130.56	2	-361.97	2	-295.95	2.35	-373.66
17	17	17.63	-694.41	216.52	1234.02	0	217.82	2	-495.00	2	-414.87	2.35	-521.77
17	18	18.80	-694.51	228.68	962.48	0	37.18	2	-403.35	2	-340.64	2.35	-410.33
18	18	18.80	-692.61	205.77	962.31	0	37.10	2	-402.41	2	-339.79	2.35	-409.35
18	19	19.98	-692.61	232.34	698.28	0	-138.38	2	-313.97	2	-267.43	2.35	-300.33
19	19	19.98	-692.61	232.34	698.28	0	-139.38	2	-311.07	2	-267.34	2.35	-301.10
19	20	21.15	-692.75	182.64	463.47	0	-296.21	2	-231.08	2	-203.11	2.35	-204.96
20	20	21.15	-376.11	182.67	617.32	0	82.91	2	-249.36	2	-210.81	2.35	-260.93
20	21	22.33	-376.11	166.10	418.18	0	-50.13	2	-180.24	2	-156.72	2.35	-180.74
21	21	22.33	-376.11	166.10	418.18	0	-50.13	2	-180.24	2	-156.72	2.35	-180.74
21	22	22.50	-376.11	157.25	390.27	0	-68.80	2	-170.46	2	-149.16	2.35	-169.59
22	22	22.50	-692.34	157.25	923.60	0	50.69	2	-438.49	2	-334.97	2.35	-397.06
22	23	23.50	-692.34	160.93	764.32	0	-56.02	2	-382.20	2	-291.91	2.35	-333.76
23	1023	23.50	-692.34	-186.20	764.32	0	-56.02	2	-382.20	2	-291.91	2.35	-333.76
23	24	24.50	-692.34	-189.03	947.62	0	66.85	2	-447.22	2	-341.46	2.35	-406.23
24	24	24.50	-404.88	-189.03	399.73	0	-87.43	2	-177.31	2	-154.81	2.35	-173.49
24	25	24.95	-404.88	-193.37	482.49	0	-32.02	2	-206.44	2	-177.23	2.35	-206.40
25	25	24.95	-404.88	-193.37	482.49	0	-32.02	2	-206.44	2	-177.23	2.35	-206.40
25	26	26.40	-404.88	-198.46	762.54	0	155.17	2	-303.94	2	-253.29	2.35	-318.68
26	26	26.40	-750.26	-198.44	594.70	0	-258.13	2	-284.10	2	-244.98	2.35	-257.78
26	27	27.85	-750.13	-233.97	925.26	0	-37.46	2	-396.91	2	-335.37	2.35	-392.63
27	27	27.85	-750.13	-233.97	925.26	0	-36.70	2	-399.56	2	-335.38	2.35	-391.78
27	28	29.30	-750.13	-276.32	1301.73	0	213.62	2	-525.96	2	-438.59	2.35	-546.53
28	28	29.30	-1039.96	-304.12	1170.09	0	-124.97	2	-513.74	2	-434.81	2.35	-500.10
28	29	30.75	-1039.55	-257.94	1583.33	0	150.03	2	-653.00	2	-547.84	2.35	-669.53
29	29	30.75	-1039.55	-257.94	1583.33	0	14.77	2	-478.49	2	-391.94	2.35	-473.06
29	30	32.20	-1039.17	-211.50	1930.39	0	251.60	2	-563.84	2	-457.98	2.35	-582.38
30	30	32.20	-1037.82	-183.68	1930.23	0	251.37	2	-563.19	2	-457.40	2.35	-581.69
30	31	33.65	-1037.82	-138.64	2167.99	0	413.25	2	-620.31	2	-502.89	2.35	-657.20
31	31	33.65	-1037.82	-138.64	2167.99	0	413.25	2	-620.31	2	-502.89	2.35	-657.20
31	32	35.10	-1037.82	-100.32	2341.13	0	531.13	2	-661.85	2	-536.02	2.35	-712.24
32	32	35.10	-1037.82	-100.32	2341.13	0	531.13	2	-661.85	2	-536.02	2.35	-712.24
32	33	36.55	-1037.82	-46.01	2447.96	0	603.84	2	-687.43	2	-556.46	2.35	-746.26
33	33	36.55	-1037.82	-46.01	2447.96	0	603.84	2	-687.43	2	-556.46	2.35	-746.26
33	34	38.00	-1037.82	-7.69	2485.26	0	629.23	2	-696.34	2	-563.60	2.35	-758.18
34	34	38.00	-1037.82	-7.69	2485.26	0	629.23	2	-696.34	2	-563.60	2.35	-758.18
34	35	39.45	-1037.82	37.35	2460.53	0	612.35	2	-690.23	2	-558.88	2.35	-750.49
35	35	39.45	-1037.82	37.35	2460.53	0	612.35	2	-690.23	2	-558.88	2.35	-750.49
35	36	40.90	-1037.82	91.66	2366.19	0	548.08	2	-667.43	2	-540.83	2.35	-720.68
36	36	40.90	-1037.82	91.66	2366.19	0	548.08	2	-667.43	2	-540.83	2.35	-720.68
36	37	42.35	-1037.82	129.97	2205.68	0	438.75	2	-628.70	2	-510.13	2.35	-669.89
37	37	42.35	-1037.82	129.97	2205.68	0	438.75	2	-628.70	2	-510.13	2.35	-669.89
37	38	43.80	-1037.82	175.01	1980.43	0	285.33	2	-574.37	2	-467.04	2.35	-598.59
38	38	43.80	-1039.09	202.83	1980.61	0	285.60	2	-574.99	2	-467.61	2.35	-599.26
38	39	45.25	-1039.48	249.29	1646.07	0	57.23	2	-492.43	2	-403.97	2.35	-434.16

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.IPF75B.EnvTrenGen.MZ+.Tinf.MZ+

...entes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+. Tinf

...vigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ+ + [0; .5]PA

Coef. exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1039.48	249.29	1646.07	0	191.46	2	-673.02	2	-565.14	2.35	-696.71
39	40	46.70	-1039.90	295.47	1245.42	0	-75.24	2	-537.79	2	-455.59	2.35	-532.74
40	40	46.70	-750.11	267.64	1377.05	0	263.33	2	-550.01	2	-459.38	2.35	-579.18
40	41	48.15	-750.11	252.32	988.10	0	4.78	2	-419.63	2	-352.70	2.35	-419.19
41	41	48.15	-750.11	252.32	988.10	0	4.19	2	-417.43	2	-352.71	2.35	-419.93
41	42	49.60	-750.26	219.43	643.34	0	-225.86	2	-300.16	2	-258.37	2.35	-279.10
42	42	49.60	-404.88	219.45	811.18	0	187.38	2	-319.97	2	-266.65	2.35	-339.97
42	43	51.05	-404.88	202.10	512.83	0	-11.87	2	-216.68	2	-185.49	2.35	-219.95
43	43	51.05	-404.88	202.10	512.83	0	-11.87	2	-216.68	2	-185.49	2.35	-219.95
43	44	51.50	-404.88	197.83	425.09	0	-70.56	2	-185.98	2	-161.69	2.35	-184.94
44	44	51.50	-692.34	197.83	972.99	0	83.72	2	-455.89	2	-348.33	2.35	-417.69
44	45	52.50	-692.34	195.06	780.21	0	-45.39	2	-387.89	2	-296.15	2.35	-341.22
45	1045	52.50	-692.34	-183.29	780.21	0	-45.39	2	-387.89	2	-296.15	2.35	-341.22
45	46	53.50	-692.34	-186.10	961.01	0	75.82	2	-452.08	2	-345.01	2.35	-412.59
45	46	53.50	-404.88	-186.10	413.12	0	-78.46	2	-182.18	2	-158.37	2.35	-179.84
46	47	53.95	-404.88	-190.42	495.33	0	-23.42	2	-211.11	2	-180.63	2.35	-212.49
47	47	53.95	-404.88	-190.42	495.33	0	-23.42	2	-211.11	2	-180.63	2.35	-212.49
47	48	55.40	-404.88	-211.72	777.29	0	165.02	2	-309.19	2	-257.24	2.35	-325.52
[illegible]	48	55.40	-750.26	-211.70	609.45	0	-248.24	2	-289.37	2	-248.95	2.35	-264.65
	49	56.85	-750.12	-239.19	947.63	0	-22.53	2	-404.57	2	-341.47	2.35	-402.68
49	49	56.85	-750.12	-239.19	947.63	0	-21.95	2	-406.71	2	-341.46	2.35	-401.97
49	50	58.30	-750.12	-275.95	1330.98	0	232.91	2	-535.30	2	-446.60	2.35	-559.64
50	50	58.30	-1039.97	-303.74	1199.35	0	-105.68	2	-523.09	2	-442.82	2.35	-513.21
50	51	59.75	-1039.57	-257.56	1612.00	0	168.93	2	-662.16	2	-555.70	2.35	-682.33
51	51	59.75	-1039.57	-257.56	1612.00	0	34.15	2	-484.88	2	-397.41	2.35	-483.05
51	52	61.20	-1039.16	-211.12	1958.65	0	270.72	2	-570.13	2	-463.37	2.35	-592.17
52	52	61.20	-1037.82	-183.30	1958.49	0	270.48	2	-569.48	2	-462.79	2.35	-591.48
52	53	62.65	-1037.82	-138.27	2195.67	0	431.98	2	-626.47	2	-508.18	2.35	-666.74
53	53	62.65	-1037.82	-138.27	2195.67	0	431.98	2	-626.47	2	-508.18	2.35	-666.74
53	54	64.10	-1037.82	-99.95	2368.30	0	549.50	2	-667.90	2	-541.22	2.35	-721.55
54	54	64.10	-1037.82	-99.95	2368.30	0	549.50	2	-667.90	2	-541.22	2.35	-721.55
54	55	65.55	-1037.82	-45.65	2474.63	0	621.89	2	-693.37	2	-561.58	2.35	-755.34
55	55	65.55	-1037.82	-45.65	2474.63	0	621.89	2	-693.37	2	-561.58	2.35	-755.34
55	56	67.00	-1037.82	-7.33	2511.40	0	646.91	2	-702.15	2	-568.63	2.35	-767.02
56	56	67.00	-1037.82	-7.33	2511.40	0	646.91	2	-702.15	2	-568.63	2.35	-767.02
56	57	68.45	-1037.82	37.71	2486.20	0	629.71	2	-695.94	2	-563.83	2.35	-759.11
57	57	68.45	-1037.82	37.71	2486.20	0	629.71	2	-695.94	2	-563.83	2.35	-759.11
57	58	69.90	-1037.82	92.00	2391.35	0	565.10	2	-673.02	2	-545.70	2.35	-729.07
58	58	69.90	-1037.82	92.00	2391.35	0	565.10	2	-673.02	2	-545.70	2.35	-729.07
58	59	71.35	-1037.82	130.33	2230.31	0	455.42	2	-634.18	2	-514.91	2.35	-678.05
59	59	71.35	-1037.82	130.33	2230.31	0	455.42	2	-634.18	2	-514.91	2.35	-678.05
59	60	72.80	-1037.82	175.36	2004.60	0	301.68	2	-579.73	2	-471.74	2.35	-606.53
60	60	72.80	-1039.09	203.17	2004.75	0	301.93	2	-580.36	2	-472.30	2.35	-607.20
60	61	74.25	-1039.51	249.63	1669.63	0	73.16	2	-497.68	2	-408.58	2.35	-501.85
	61	74.25	-1039.51	249.63	1669.63	0	207.01	2	-680.55	2	-571.74	2.35	-706.67
	62	75.70	-1039.89	295.81	1268.52	0	-59.98	2	-545.15	2	-462.06	2.35	-542.42
62	62	75.70	-750.12	267.99	1400.15	0	278.59	2	-557.39	2	-465.86	2.35	-588.87
62	63	77.15	-750.12	249.90	1018.47	0	24.84	2	-429.34	2	-361.21	2.35	-431.69
63	63	77.15	-750.12	249.90	1018.47	0	24.21	2	-427.08	2	-361.21	2.35	-432.43
63	64	78.60	-750.26	211.56	670.23	0	-208.14	2	-308.65	2	-265.92	2.35	-290.04
64	64	78.60	-404.88	211.58	838.07	0	205.14	2	-328.48	2	-274.21	2.35	-350.94
64	65	80.05	-404.88	194.33	545.76	0	9.86	2	-227.08	2	-194.75	2.35	-233.42
65	65	80.05	-404.88	194.33	545.76	0	9.86	2	-227.08	2	-194.75	2.35	-233.42
65	66	80.50	-404.88	190.05	460.88	0	-46.95	2	-197.29	2	-171.75	2.35	-199.62
66	66	80.50	-692.34	190.05	1008.78	0	107.34	2	-467.19	2	-358.39	2.35	-432.36
66	67	81.50	-692.34	187.29	823.34	0	-16.93	2	-401.51	2	-308.26	2.35	-358.98
67	1067	81.50	-692.34	-204.18	823.34	0	-16.93	2	-401.51	2	-308.26	2.35	-358.98
67	68	82.50	-692.34	-210.02	1024.02	0	117.56	2	-472.62	2	-362.52	2.35	-438.33
68	68	82.50	-462.42	-210.02	447.01	0	-106.31	2	-198.97	2	-174.21	2.35	-195.03
68	69	83.08	-462.42	-215.29	565.10	0	-27.27	2	-240.43	2	-206.22	2.35	-242.04
69	69	83.08	-462.42	-215.29	565.10	0	-27.27	2	-240.43	2	-206.22	2.35	-242.04
69	70	84.65	-462.42	-234.56	908.29	0	202.01	2	-359.51	2	-299.52	2.35	-379.91
70	70	84.65	-865.35	-234.55	712.48	0	-280.08	2	-336.40	2	-289.86	2.35	-308.91
70	71	86.23	-865.21	-273.11	1117.17	0	-10.10	2	-474.13	2	-400.57	2.35	-474.18
71	71	86.23	-865.21	-273.11	1117.17	0	-9.55	2	-476.10	2	-400.57	2.35	-473.53
71	72	87.80	-865.21	-302.96	1587.95	0	303.36	2	-633.73	2	-529.74	2.35	-667.17
72	72	87.80	-1270.15	-334.23	1403.59	0	-170.66	2	-616.23	2	-524.09	2.35	-601.76
72	73	89.38	-1269.77	-284.23	1883.53	0	148.79	2	-778.23	2	-655.37	2.35	-798.35
73	73	89.38	-1269.77	-284.23	1883.53	0	-17.41	2	-569.10	2	-469.09	2.35	-562.99
73	74	90.95	-1269.29	-226.39	2288.41	0	258.96	2	-668.89	2	-546.12	2.35	-690.35
	74	90.95	-1267.98	-195.12	2288.23	0	258.70	2	-668.24	2	-545.54	2.35	-689.66
74	75	92.53	-1267.98	-145.06	2563.13	0	445.90	2	-734.39	2	-598.14	2.35	-776.85
75	75	92.53	-1267.98	-145.06	2563.13	0	445.90	2	-734.39	2	-598.14	2.35	-776.85
75	76	94.10	-1267.98	-103.75	2758.30	0	578.81	2	-781.37	2	-635.48	2.35	-838.74
76	76	94.10	-1267.98	-103.75	2758.30	0	578.81	2	-781.37	2	-635.48	2.35	-838.74
76	77	95.68	-1267.98	-53.84	2876.66	0	659.40	2	-809.84	2	-658.13	2.35	-876.29

combi_ti.xls

Programa DINTEL IDEAM S.A.
INFREC1.IPF75B.EnvTrenGen.MZ+.Tinf.MZ+

04/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.IPF75B.EnvTrenGen.MZ+.Tinf.MZ+

...frecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+. Tinf

...l)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ+ + [0; .5]PAS

ef. exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1267.98	-53.84	2876.66	0	659.40	2	-809.84	2	-658.13	2.35	-876.29
77	78	97.25	-1267.98	-3.37	2913.60	0	684.57	2	-818.77	2	-665.19	2.35	-887.98
78	78	97.25	-1267.98	-3.37	2913.60	0	684.571	2	-818.77	2	-665.19	2.35	-887.98
78	79	98.83	-1267.98	54.15	2876.20	0	659.09	2	-809.73	2	-658.04	2.35	-876.14
79	79	98.83	-1267.98	54.15	2876.20	0	659.09	2	-809.73	2	-658.04	2.35	-876.14
79	80	100.40	-1267.98	104.05	2757.35	0	578.16	2	-781.15	2	-635.31	2.35	-838.44
80	80	100.40	-1267.98	104.05	2757.35	0	578.16	2	-781.15	2	-635.31	2.35	-838.44
80	81	101.98	-1267.98	145.37	2561.74	0	444.95	2	-734.07	2	-597.89	2.35	-776.40
81	81	101.98	-1267.98	145.37	2561.74	0	444.95	2	-734.07	2	-597.89	2.35	-776.40
81	82	103.55	-1267.98	195.42	2286.36	0	257.43	2	-667.82	2	-545.21	2.35	-689.06
82	82	103.55	-1269.28	226.71	2286.53	0	257.69	2	-668.46	2	-545.78	2.35	-689.74
82	83	105.13	-1269.76	284.54	1881.17	0	-19.01	2	-568.56	2	-468.67	2.35	-562.22
83	83	105.13	-1269.76	284.54	1881.17	0	147.23	2	-777.47	2	-654.76	2.35	-797.36
83	84	106.70	-1270.13	334.55	1400.78	0	-172.51	2	-615.31	2	-523.36	2.35	-600.58
84	84	106.70	-865.19	303.25	1585.14	0	301.51	2	-632.82	2	-529.02	2.35	-666.00
84	85	108.28	-865.19	287.74	1113.62	0	-11.88	2	-474.96	2	-399.65	2.35	-471.80
85	85	108.28	-865.19	287.74	1113.62	0	-12.40	2	-473.06	2	-399.66	2.35	-472.43
85	86	109.85	-865.33	237.54	686.44	0	-297.23	2	-328.16	2	-282.72	2.35	-297.54
86	86	109.85	-462.42	237.56	882.25	0	184.84	2	-351.27	2	-292.37	2.35	-368.54
86	87	111.43	-462.42	218.71	527.34	0	-52.17	2	-228.45	2	-195.83	2.35	-225.64
87	87	111.43	-462.42	218.71	527.34	0	-52.17	2	-228.45	2	-195.83	2.35	-225.64
87	88	112.00	-462.42	213.99	406.58	0	-132.96	2	-186.14	2	-163.09	2.35	-177.48
88	88	112.00	-692.34	213.99	983.60	0	90.91	2	-459.79	2	-351.40	2.35	-420.78
88	89	113.00	-692.34	208.20	778.37	0	-46.58	2	-387.23	2	-295.88	2.35	-339.47
89	1089	113.00	-692.34	-215.87	778.37	0	-46.58	2	-387.23	2	-295.88	2.35	-339.47
89	90	114.00	-692.34	-221.64	991.36	0	96.04	2	-462.26	2	-353.55	2.35	-424.07
90	90	114.00	-462.42	-221.64	414.35	0	-127.84	2	-188.61	2	-165.24	2.35	-180.77
90	91	114.58	-462.42	-223.95	539.46	0	-44.17	2	-232.30	2	-199.20	2.35	-230.78
91	91	114.58	-462.42	-223.95	539.46	0	-44.17	2	-232.30	2	-199.20	2.35	-230.78
91	92	116.15	-462.42	-242.59	903.00	0	198.54	2	-357.85	2	-298.14	2.35	-377.34
92	92	116.15	-865.34	-242.59	707.19	0	-283.52	2	-334.75	2	-288.50	2.35	-306.35
92	93	117.73	-865.20	-292.18	1139.97	0	5.00	2	-481.42	2	-406.99	2.35	-483.60
93	93	117.73	-865.20	-292.18	1139.97	0	5.52	2	-483.38	2	-406.98	2.35	-482.95
93	94	119.30	-865.20	-299.07	1611.82	0	319.13	2	-641.35	2	-536.44	2.35	-677.24
94	94	119.30	-1270.10	-330.35	1427.47	0	-154.87	2	-623.83	2	-530.78	2.35	-611.82
94	95	120.88	-1269.73	-280.35	1901.30	0	160.53	2	-783.89	2	-660.37	2.35	-805.76
95	95	120.88	-1269.73	-280.35	1901.30	0	-5.38	2	-573.02	2	-472.57	2.35	-568.69
95	96	122.45	-1269.24	-222.51	2300.09	0	266.88	2	-671.46	2	-548.42	2.35	-694.01
96	96	122.45	-1267.98	-191.23	2299.91	0	266.60	2	-670.83	2	-547.86	2.35	-693.34
96	97	124.03	-1267.98	-141.18	2568.69	0	449.66	2	-735.62	2	-599.27	2.35	-778.47
97	97	124.03	-1267.98	-141.18	2568.69	0	449.66	2	-735.62	2	-599.27	2.35	-778.47
97	98	125.60	-1267.98	-99.85	2757.76	0	578.44	2	-781.24	2	-635.43	2.35	-838.32
98	98	125.60	-1267.98	-99.85	2757.76	0	578.44	2	-781.24	2	-635.43	2.35	-838.32
98	99	127.18	-1267.98	-49.96	2869.98	0	654.89	2	-808.35	2	-656.88	2.35	-873.80
99	99	127.18	-1267.98	-49.96	2869.98	0	654.89	2	-808.35	2	-656.88	2.35	-873.80
99	100	128.75	-1267.98	0.50	2900.83	0	675.93	2	-815.92	2	-662.77	2.35	-883.45
100	100	128.75	-1267.98	0.50	2900.83	0	675.93	2	-815.92	2	-662.77	2.35	-883.45
100	101	130.33	-1267.98	58.02	2857.29	0	646.30	2	-805.53	2	-654.44	2.35	-869.55
101	101	130.33	-1267.98	58.02	2857.29	0	646.30	2	-805.53	2	-654.44	2.35	-869.55
101	102	131.90	-1267.98	107.94	2732.35	0	561.25	2	-775.59	2	-630.52	2.35	-829.80
102	102	131.90	-1267.98	107.94	2732.35	0	561.25	2	-775.59	2	-630.52	2.35	-829.80
102	103	133.48	-1267.98	149.23	2530.63	0	423.91	2	-727.15	2	-591.92	2.35	-765.71
103	103	133.48	-1267.98	149.23	2530.63	0	423.91	2	-727.15	2	-591.92	2.35	-765.71
103	104	135.05	-1267.98	199.32	2249.10	0	232.23	2	-659.53	2	-538.05	2.35	-676.30
104	104	135.05	-1269.32	230.61	2249.28	0	232.49	2	-660.19	2	-538.63	2.35	-677.01
104	105	136.63	-1269.77	288.42	1837.89	0	-48.28	2	-558.94	2	-460.35	2.35	-547.45
105	105	136.63	-1269.77	288.42	1837.89	0	118.68	2	-763.65	2	-642.79	2.35	-778.37
105	106	138.20	-1270.21	338.43	1351.32	0	-205.17	2	-599.55	2	-509.69	2.35	-578.94
106	106	138.20	-865.20	307.14	1535.68	0	268.87	2	-617.03	2	-515.33	2.35	-644.34
106	107	139.78	-865.20	266.42	1071.76	0	-39.51	2	-461.59	2	-388.06	2.35	-453.63
107	107	139.78	-865.20	266.42	1071.76	0	-40.18	2	-459.23	2	-388.05	2.35	-454.39
107	108	141.35	-865.34	218.74	675.91	0	-304.34	2	-324.30	2	-279.80	2.35	-292.87
108	108	141.35	-462.42	218.77	871.71	0	177.77	2	-347.42	2	-289.47	2.35	-363.88
108	109	142.93	-462.42	213.16	535.92	0	-46.64	2	-230.67	2	-198.22	2.35	-229.14
109	109	142.93	-462.42	213.16	535.92	0	-46.64	2	-230.67	2	-198.22	2.35	-229.14
109	110	143.50	-462.42	192.02	418.57	0	-125.19	2	-189.45	2	-166.42	2.35	-182.43
110	110	143.50	-692.34	192.02	995.58	0	98.69	2	-463.09	2	-354.73	2.35	-425.74
110	111	144.50	-692.34	204.90	794.61	0	-36.00	2	-391.87	2	-300.39	2.35	-346.24
111	1111	144.50	-692.34	-159.65	794.61	0	-36.00	2	-391.87	2	-300.39	2.35	-346.24
111	112	145.50	-692.34	-155.96	952.81	0	69.99	2	-447.82	2	-343.15	2.35	-409.10
112	112	145.50	-376.11	-155.96	419.48	0	-49.50	2	-179.79	2	-157.34	2.35	-181.63
112	113	145.68	-376.11	-164.80	447.42	0	-30.81	2	-189.59	2	-164.91	2.35	-192.80
113	113	145.68	-376.11	-164.80	447.42	0	-30.81	2	-189.59	2	-164.91	2.35	-192.80
113	114	146.85	-376.11	-181.21	648.36	0	103.42	2	-259.27	2	-219.50	2.35	-273.78
114	114	146.85	-692.75	-181.19	494.51	0	-275.70	2	-241.00	2	-211.79	2.35	-217.82
114	115	148.03	-692.61	-239.08	737.33	0	-113.58	2	-323.55	2	-278.24	2.35	-317.39

CÁLCULO TENSIONAL

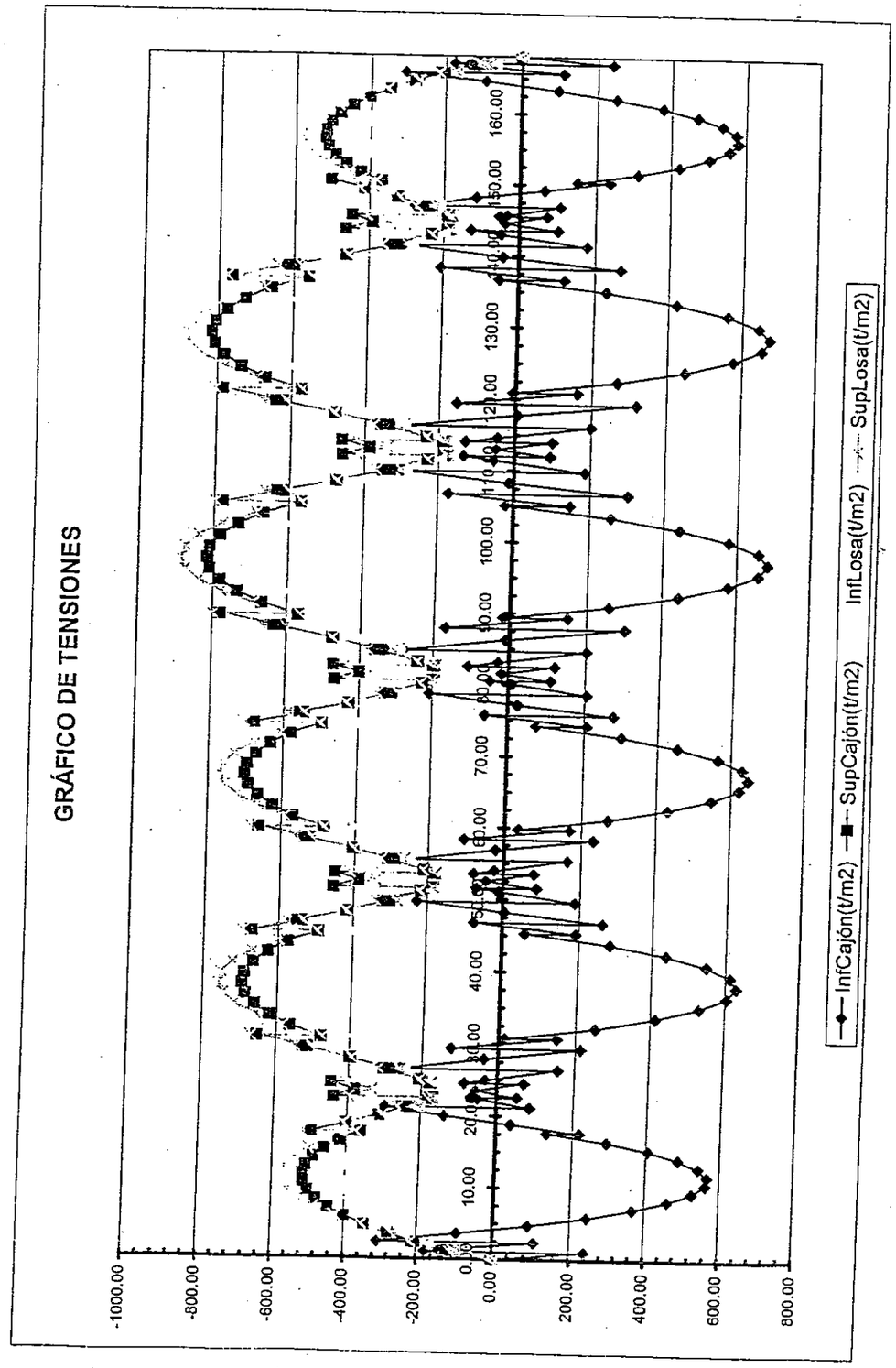
Hipótesis de cálculo:
INFREC1.IPF75B.EnvTrenGen.MZ+.Tinf.MZ+

...entes con gradiente. Dominante IPF75B.EnvTrenGen.MZ+. Tinf

...]F...as * [95; 1.05]Fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]Fase4.ISO.To + [.9; 1.1]Fase4.HIP.To + [1; 1]HSCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ+ + [0; .5]PAS

oef. exc.

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-692.61	-239.08	737.33	0	-112.59	2	-326.45	2	-278.34	2.35	-316.62
115	116	149.20	-692.61	-203.68	1001.58	0	63.04	2	-414.95	2	-350.74	2.35	-425.75
116	116	149.20	-694.48	-226.58	1001.74	0	63.13	2	-415.89	2	-351.59	2.35	-426.72
116	117	150.38	-694.39	-214.90	1262.37	0	236.55	2	-504.05	2	-422.79	2.35	-533.69
117	117	150.38	-694.39	-214.90	1262.37	0	149.75	2	-368.26	2	-301.47	2.35	-382.86
117	118	151.55	-694.00	-177.64	1498.48	0	310.86	2	-426.20	2	-346.31	2.35	-457.17
118	118	151.55	-692.58	-154.74	1498.34	0	310.66	2	-425.53	2	-345.70	2.35	-456.45
118	119	152.73	-692.58	-117.71	1663.02	0	422.77	2	-465.03	2	-377.17	2.35	-508.74
119	119	152.73	-692.58	-117.71	1663.02	0	422.77	2	-465.03	2	-377.17	2.35	-508.74
119	120	153.90	-692.58	-87.86	1782.62	0	504.20	2	-493.72	2	-400.01	2.35	-546.72
120	120	153.90	-692.58	-87.86	1782.62	0	504.20	2	-493.72	2	-400.01	2.35	-546.72
120	121	155.08	-692.58	-44.01	1860.48	0	557.19	2	-512.33	2	-414.86	2.35	-571.48
121	121	155.08	-692.58	-44.01	1860.48	0	557.19	2	-512.33	2	-414.86	2.35	-571.48
121	122	156.25	-692.58	-13.57	1894.42	0	580.27	2	-520.37	2	-421.32	2.35	-582.31
122	122	156.25	-692.58	-13.57	1894.42	0	580.27	2	-520.37	2	-421.32	2.35	-582.31
122	123	157.43	-692.58	31.26	1886.47	0	574.82	2	-518.30	2	-419.76	2.35	-579.88
123	123	157.43	-692.58	31.26	1886.47	0	574.82	2	-518.30	2	-419.76	2.35	-579.88
123	124	158.60	-692.58	60.14	1832.08	0	537.77	2	-505.11	2	-409.31	2.35	-562.68
...	124	158.60	-692.58	60.14	1832.08	0	537.77	2	-505.11	2	-409.31	2.35	-562.68
	125	159.78	-692.58	97.39	1734.64	0	471.38	2	-481.55	2	-390.63	2.35	-531.84
125	125	159.78	-692.58	97.39	1734.64	0	471.38	2	-481.55	2	-390.63	2.35	-531.84
125	126	160.95	-692.58	134.43	1594.66	0	376.03	2	-447.72	2	-363.81	2.35	-487.52
126	126	160.95	-692.58	134.43	1594.66	0	376.03	2	-447.72	2	-363.81	2.35	-487.52
126	127	162.13	-692.58	179.88	1409.92	0	250.20	2	-403.15	2	-328.43	2.35	-428.99
127	127	162.13	-692.58	179.88	1409.92	0	250.20	2	-403.15	2	-328.43	2.35	-428.99
127	128	163.30	-692.58	217.28	1180.08	0	93.67	2	-347.75	2	-284.42	2.35	-356.14
128	128	163.30	-692.58	217.28	1180.08	0	93.67	2	-347.75	2	-284.42	2.35	-356.14
128	129	164.48	-692.58	254.55	907.59	0	-91.92	2	-282.07	2	-232.25	2.35	-269.77
129	129	164.48	-692.58	254.55	907.59	0	-91.92	2	-282.07	2	-232.25	2.35	-269.77
129	130	165.65	-692.58	291.58	593.55	0	-305.80	2	-206.35	2	-172.13	2.35	-170.25
130	130	165.65	-376.11	291.58	722.58	0	107.44	2	-212.40	2	-169.66	2.35	-218.23
130	131	166.83	-376.11	328.68	362.38	0	-137.87	2	-125.62	2	-100.71	2.35	-104.04
131	131	166.83	-376.11	328.68	362.38	0	-137.87	2	-125.62	2	-100.71	2.35	-104.04
131	132	167.00	-376.11	334.32	304.83	0	-177.07	2	-111.76	2	-89.69	2.35	-85.80
132	132	167.00	0.00	334.32	352.39	0	240.02	2	-85.04	2	-67.43	2.35	-111.69
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.GRAD.Tinf.MZ-

...lentes con gradiente. Dominante GRAD. Tinf

...1)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .976]PF75B.MZ- + [0; .4]PASE

Coef exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00
1	2	1.00	0.00	-134.67	145.20	0	99.84	2	-38.92	2	-27.38	2.35	-43.76
2	2	1.00	-426.26	-134.67	80.45	0	-372.88	2	-69.21	2	-52.62	2.35	-14.35
2	3	1.18	-426.26	-132.16	103.80	0	-356.82	2	-75.46	2	-57.03	2.35	-21.38
3	3	1.18	-426.26	-132.16	103.80	0	-356.82	2	-75.46	2	-57.03	2.35	-21.38
3	4	2.35	-426.26	-115.30	249.19	0	-256.86	2	-114.43	2	-84.45	2.35	-65.13
4	4	2.35	-784.92	-115.30	93.82	0	-725.15	2	-107.82	2	-87.24	2.35	-10.65
4	5	3.53	-784.92	-98.45	219.39	0	-638.78	2	-141.60	2	-110.92	2.35	-48.36
5	5	3.53	-784.92	-98.45	219.39	0	-638.78	2	-141.60	2	-110.92	2.35	-48.36
5	6	4.70	-784.92	-81.58	325.15	0	-566.01	2	-170.17	2	-130.86	2.35	-80.02
6	6	4.70	-784.92	-81.58	325.15	0	-566.01	2	-170.17	2	-130.86	2.35	-80.02
6	7	5.88	-784.92	-64.73	411.12	0	-506.82	2	-193.55	2	-147.06	2.35	-105.64
7	7	5.88	-784.92	-64.73	411.12	0	-506.82	2	-193.55	2	-147.06	2.35	-105.64
7	8	7.05	-784.92	-47.87	477.29	0	-461.21	2	-211.73	2	-159.53	2.35	-125.22
8	8	7.05	-784.92	-47.87	477.29	0	-461.21	2	-211.73	2	-159.53	2.35	-125.22
8	9	8.23	-784.92	-31.03	523.65	0	-429.20	2	-224.72	2	-168.25	2.35	-138.76
9	9	8.23	-784.92	-31.03	523.65	0	-429.20	2	-224.72	2	-168.25	2.35	-138.76
9	10	9.40	-784.92	-14.17	550.22	0	-410.77	2	-232.51	2	-173.24	2.35	-146.26
10	10	9.40	-784.92	-14.17	550.22	0	-410.77	2	-232.51	2	-173.24	2.35	-146.26
11	11	10.58	-784.92	2.68	556.96	0	-405.95	2	-235.10	2	-174.48	2.35	-147.71
11	12	11.75	-784.92	19.54	543.89	0	-405.95	2	-235.10	2	-174.48	2.35	-147.71
12	12	11.75	-784.92	19.54	543.89	0	-414.71	2	-232.50	2	-171.98	2.35	-143.12
12	13	12.93	-784.92	36.40	511.05	0	-414.71	2	-232.50	2	-171.98	2.35	-143.12
13	13	12.93	-784.92	36.40	511.05	0	-437.05	2	-224.70	2	-165.75	2.35	-132.49
13	14	14.10	-784.92	53.26	458.35	0	-437.05	2	-224.70	2	-165.75	2.35	-132.49
14	14	14.10	-784.92	53.26	458.35	0	-473.01	2	-211.70	2	-155.77	2.35	-115.81
14	15	15.28	-784.92	70.11	385.89	0	-473.01	2	-211.70	2	-155.77	2.35	-115.81
15	15	15.28	-784.92	70.11	385.89	0	-522.54	2	-193.50	2	-142.05	2.35	-93.10
15	16	16.45	-784.92	86.97	293.61	0	-522.54	2	-193.50	2	-142.05	2.35	-93.10
16	16	16.45	-785.51	112.06	293.77	0	-585.67	2	-170.11	2	-124.60	2.35	-64.35
16	17	17.63	-785.66	128.92	151.96	0	-585.16	2	-170.52	2	-124.97	2.35	-64.84
17	17	17.63	-785.66	128.92	151.96	0	-682.43	2	-133.30	2	-98.33	2.35	-21.24
17	18	18.80	-786.13	171.01	-20.93	0	-566.93	2	-164.26	2	-128.55	2.35	-69.02
18	18	18.80	-785.09	145.91	-21.11	0	-682.61	2	-104.12	2	-81.85	2.35	0.23
18	19	19.98	-785.09	178.49	-206.78	0	-682.97	2	-103.42	2	-81.21	2.35	1.00
19	19	19.98	-785.09	178.49	-206.78	0	-806.75	2	-40.00	2	-30.59	2.35	75.99
19	20	21.15	-785.23	243.53	-458.66	0	-807.97	2	-36.46	2	-30.48	2.35	75.04
20	20	21.15	-426.26	243.58	-276.12	0	-976.10	2	49.05	2	38.50	2.35	177.76
20	21	22.33	-426.26	317.78	-607.52	0	-545.51	2	28.16	2	29.39	2.35	113.69
21	21	22.33	-426.26	317.78	-607.52	0	-765.91	2	139.59	2	120.19	2.35	249.50
21	22	22.50	-426.26	331.60	-664.64	0	-765.91	2	139.59	2	120.19	2.35	249.50
22	22	22.50	-546.59	331.60	-188.70	0	-803.88	2	158.71	2	135.86	2.35	272.98
22	23	23.50	-546.59	378.34	-543.47	0	-574.95	2	-49.11	2	-5.89	2.35	82.20
	1023	23.50	-546.59	-437.68	-543.47	0	-810.75	2	69.68	2	91.42	2.35	228.12
	24	24.50	-546.59	-384.20	-130.29	0	-810.75	2	69.68	2	91.42	2.35	228.12
24	24	24.50	-458.86	-384.20	-623.46	0	-536.08	2	-68.80	2	-21.92	2.35	58.35
24	25	24.95	-458.86	-362.86	-452.78	0	-804.53	2	141.16	2	120.81	2.35	255.18
25	25	24.95	-458.86	-362.86	-452.78	0	-691.05	2	83.94	2	73.99	2.35	185.09
25	26	26.40	-458.86	-283.71	20.77	0	-691.05	2	83.94	2	73.99	2.35	185.09
26	26	26.40	-850.30	-283.69	-178.37	0	-376.07	2	-75.42	2	-55.78	2.35	-8.78
26	27	27.85	-850.17	-216.03	181.35	0	-845.43	2	-52.71	2	-45.92	2.35	60.96
27	27	27.85	-850.17	-216.03	181.35	0	-605.46	2	-174.86	2	-144.42	2.35	-85.51
27	28	29.30	-850.17	-120.03	423.55	0	-604.50	2	-178.22	2	-144.43	2.35	-84.44
28	28	29.30	-1176.81	-150.49	266.92	0	-442.83	2	-261.72	2	-210.39	2.35	-181.93
28	29	30.75	-1176.66	-129.69	470.40	0	-826.88	2	-247.04	2	-205.17	2.35	-128.12
29	29	30.75	-1176.66	-129.69	470.40	0	-690.40	2	-319.59	2	-260.02	2.35	-208.64
29	30	32.20	-1176.52	-108.89	643.73	0	-859.70	2	-248.63	2	-194.20	2.35	-113.39
30	30	32.20	-1176.20	-78.42	643.56	0	-740.42	2	-295.69	2	-226.69	2.35	-165.79
30	31	33.65	-1176.20	-57.61	742.15	0	-741.02	2	-295.37	2	-226.39	2.35	-165.37
31	31	33.65	-1176.20	-57.61	742.15	0	-673.29	2	-321.52	2	-244.97	2.35	-195.32
31	32	35.10	-1176.20	-36.83	810.62	0	-673.29	2	-321.52	2	-244.97	2.35	-195.32
32	32	35.10	-1176.20	-36.83	810.62	0	-626.24	2	-339.76	2	-257.86	2.35	-216.07
32	33	36.55	-1176.20	-16.02	848.89	0	-626.24	2	-339.76	2	-257.86	2.35	-216.07
33	33	36.55	-1176.20	-16.02	848.89	0	-599.91	2	-350.08	2	-265.04	2.35	-227.62
33	34	38.00	-1176.20	9.51	851.22	0	-599.91	2	-350.08	2	-265.04	2.35	-227.62
34	34	38.00	-1176.20	9.51	851.22	0	-598.19	2	-351.21	2	-265.42	2.35	-228.05
34	35	39.45	-1176.20	30.32	822.36	0	-598.19	2	-351.21	2	-265.42	2.35	-228.05
35	35	39.45	-1176.20	30.32	822.36	0	-617.86	2	-344.18	2	-259.90	2.35	-218.94
	36	40.90	-1176.20	51.12	763.30	0	-617.86	2	-344.18	2	-259.90	2.35	-218.94
	36	40.90	-1176.20	51.12	763.30	0	-658.25	2	-329.24	2	-248.68	2.35	-200.62
36	37	42.35	-1176.20	71.91	674.11	0	-658.25	2	-329.24	2	-248.68	2.35	-200.62
37	37	42.35	-1176.20	71.91	674.11	0	-719.32	2	-306.39	2	-231.77	2.35	-173.11
37	38	43.80	-1176.20	92.72	554.73	0	-719.32	2	-306.39	2	-231.77	2.35	-173.11
38	38	43.80	-1176.66	123.18	554.92	0	-801.11	2	-275.62	2	-209.15	2.35	-136.38
38	39	45.25	-1176.80	143.98	360.87	0	-800.56	2	-275.99	2	-209.49	2.35	-136.84
						0	-933.85	2	-224.32	2	-172.99	2.35	-77.69

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.GRAD.Tinf.MZ-

frecuentes con gradiente. Dominante GRAD. Tinf

...1)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .976]PF75B.MZ- + [0; .4]PASE

el exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1176.80	143.98	360.87	0	-762.78	2	-284.65	2	-229.56	2.35	-162.39
39	40	46.70	-1176.96	164.79	136.64	0	-912.96	2	-205.47	2	-168.94	2.35	-73.11
40	40	46.70	-850.10	134.32	293.26	0	-528.84	2	-220.09	2	-174.10	2.35	-126.86
40	41	48.15	-850.10	208.75	50.25	0	-691.05	2	-136.32	2	-107.90	2.35	-29.12
41	41	48.15	-850.10	208.75	50.25	0	-691.78	2	-133.57	2	-107.91	2.35	-30.05
41	42	49.60	-850.25	276.66	-304.72	0	-928.60	2	-13.02	2	-10.72	2.35	114.34
42	42	49.60	-458.86	276.68	-105.58	0	-459.34	2	-35.71	2	-20.56	2.35	44.63
42	43	51.05	-458.86	362.42	-568.06	0	-766.99	2	120.03	2	106.16	2.35	233.72
43	43	51.05	-458.86	362.42	-568.06	0	-766.99	2	120.03	2	106.16	2.35	233.72
43	44	51.50	-458.86	383.18	-737.58	0	-879.69	2	176.86	2	152.66	2.35	303.29
44	44	51.50	-546.59	383.18	-244.40	0	-611.25	2	-33.11	2	9.93	2.35	106.47
44	45	52.50	-546.59	437.93	-658.58	0	-886.56	2	105.64	2	123.57	2.35	276.63
45	1045	52.50	-546.59	-441.43	-658.58	0	-886.56	2	105.64	2	123.57	2.35	276.63
45	46	53.50	-546.59	-386.54	-240.22	0	-608.48	2	-34.46	2	8.78	2.35	104.68
46	46	53.50	-458.86	-386.54	-733.40	0	-876.92	2	175.50	2	151.51	2.35	301.50
46	47	53.95	-458.86	-365.75	-562.12	0	-763.07	2	118.10	2	104.52	2.35	231.18
47	47	53.95	-458.86	-365.75	-562.12	0	-763.07	2	118.10	2	104.52	2.35	231.18
47	48	55.40	-458.86	-279.45	-92.95	0	-450.98	2	-39.80	2	-24.06	2.35	39.22
48	48	55.40	-850.28	-279.43	-292.08	0	-920.28	2	-17.11	2	-14.21	2.35	108.94
48	49	56.85	-850.14	-215.95	68.19	0	-679.96	2	-139.39	2	-112.88	2.35	-37.72
49	49	56.85	-850.14	-215.95	68.19	0	-679.22	2	-142.07	2	-112.87	2.35	-36.84
49	50	58.30	-850.14	-124.45	311.36	0	-516.91	2	-225.88	2	-179.12	2.35	-134.61
50	50	58.30	-1176.88	-154.91	154.74	0	-900.99	2	-211.23	2	-173.93	2.35	-80.84
50	51	59.75	-1176.73	-134.13	364.67	0	-760.25	2	-285.84	2	-230.58	2.35	-164.03
51	51	59.75	-1176.73	-134.13	364.67	0	-931.26	2	-225.14	2	-173.69	2.35	-78.96
51	52	61.20	-1176.56	-113.32	544.44	0	-807.62	2	-273.63	2	-207.43	2.35	-133.40
52	52	61.20	-1176.20	-82.85	544.26	0	-808.20	2	-273.29	2	-207.11	2.35	-132.97
52	53	62.65	-1176.20	-62.05	649.30	0	-736.11	2	-300.87	2	-226.95	2.35	-164.97
53	53	62.65	-1176.20	-62.05	649.30	0	-736.11	2	-300.87	2	-226.95	2.35	-164.97
53	54	64.10	-1176.20	-41.24	724.21	0	-684.70	2	-320.55	2	-241.10	2.35	-187.78
54	54	64.10	-1176.20	-41.24	724.21	0	-684.70	2	-320.55	2	-241.10	2.35	-187.78
54	55	65.55	-1176.20	-20.45	768.95	0	-653.99	2	-332.30	2	-249.55	2.35	-201.39
55	55	65.55	-1176.20	-20.45	768.95	0	-653.99	2	-332.30	2	-249.55	2.35	-201.39
55	56	67.00	-1176.20	6.16	778.33	0	-647.50	2	-334.99	2	-251.30	2.35	-204.07
56	56	67.00	-1176.20	6.16	778.33	0	-647.50	2	-334.99	2	-251.30	2.35	-204.07
56	57	68.45	-1176.20	26.96	754.32	0	-663.89	2	-329.05	2	-246.74	2.35	-196.50
57	57	68.45	-1176.20	26.96	754.32	0	-663.89	2	-329.05	2	-246.74	2.35	-196.50
57	58	69.90	-1176.20	47.75	700.16	0	-700.97	2	-315.19	2	-236.48	2.35	-179.72
58	58	69.90	-1176.20	47.75	700.16	0	-700.97	2	-315.19	2	-236.48	2.35	-179.72
58	59	71.35	-1176.20	68.56	615.82	0	-758.76	2	-293.42	2	-220.52	2.35	-153.74
59	59	71.35	-1176.20	68.56	615.82	0	-758.76	2	-293.42	2	-220.52	2.35	-153.74
59	60	72.80	-1176.20	89.36	501.32	0	-837.24	2	-263.73	2	-198.86	2.35	-118.55
60	60	72.80	-1176.61	119.81	501.49	0	-836.69	2	-264.08	2	-199.19	2.35	-118.99
60	61	74.25	-1176.77	140.62	312.30	0	-966.70	2	-213.50	2	-163.64	2.35	-61.37
61	61	74.25	-1176.77	140.62	312.30	0	-794.82	2	-269.12	2	-216.13	2.35	-141.38
61	62	75.70	-1176.91	161.42	92.92	0	-941.79	2	-191.49	2	-156.87	2.35	-54.08
62	62	75.70	-850.14	130.95	249.55	0	-557.70	2	-206.13	2	-162.05	2.35	-107.85
62	63	77.15	-850.14	207.68	3.00	0	-722.26	2	-121.23	2	-94.88	2.35	-8.75
63	63	77.15	-850.14	207.68	3.00	0	-723.04	2	-118.43	2	-94.88	2.35	-9.66
63	64	78.60	-850.28	279.96	-348.60	0	-957.64	2	1.10	2	1.37	2.35	133.35
64	64	78.60	-458.86	279.98	-149.47	0	-488.32	2	-21.60	2	-8.48	2.35	63.61
64	65	80.05	-458.86	349.63	-607.49	0	-793.05	2	132.76	2	116.99	2.35	250.85
65	65	80.05	-458.86	349.63	-607.49	0	-793.05	2	132.76	2	116.99	2.35	250.85
65	66	80.50	-458.86	386.33	-774.41	0	-904.03	2	188.77	2	162.76	2.35	319.33
66	66	80.50	-546.59	386.33	-281.23	0	-635.58	2	-21.19	2	20.03	2.35	122.50
66	67	81.50	-546.59	440.82	-695.80	0	-911.16	2	117.71	2	133.76	2.35	292.86
67	1067	81.50	-546.59	-471.68	-695.80	0	-911.16	2	117.71	2	133.76	2.35	292.86
67	68	82.50	-546.59	-417.62	-246.28	0	-612.35	2	-32.92	2	10.44	2.35	108.18
68	68	82.50	-524.08	-417.62	-773.94	0	-959.82	2	181.32	2	155.13	2.35	317.10
68	69	83.08	-524.08	-390.05	-538.30	0	-803.16	2	102.30	2	90.50	2.35	220.38
69	69	83.08	-524.08	-390.05	-538.30	0	-803.16	2	102.30	2	90.50	2.35	220.38
69	70	84.65	-524.08	-297.20	4.50	0	-442.05	2	-80.58	2	-58.21	2.35	-1.54
70	70	84.65	-980.71	-297.19	-227.83	0	-989.52	2	-54.12	2	-46.74	2.35	79.78
70	71	86.23	-980.57	-228.30	187.53	0	-712.45	2	-195.29	2	-160.44	2.35	-89.11
71	71	86.23	-980.57	-228.30	187.53	0	-711.75	2	-197.80	2	-160.44	2.35	-88.29
71	72	87.80	-980.57	-136.11	454.11	0	-533.68	2	-290.19	2	-232.94	2.35	-195.30
72	72	87.80	-1437.72	-170.38	234.75	0	-1071.56	2	-269.44	2	-225.47	2.35	-119.75
72	73	89.38	-1437.57	-147.78	485.75	0	-903.29	2	-358.65	2	-293.22	2.35	-219.29
73	73	89.38	-1437.57	-147.78	485.75	0	-1111.69	2	-279.67	2	-220.21	2.35	-111.26
73	74	90.95	-1437.40	-125.19	701.19	0	-963.51	2	-337.76	2	-260.65	2.35	-176.58
74	74	90.95	-1437.04	-90.92	700.99	0	-964.12	2	-337.42	2	-260.34	2.35	-176.14
74	75	92.53	-1437.04	-68.33	826.41	0	-878.06	2	-370.29	2	-284.03	2.35	-214.41
75	75	92.53	-1437.04	-68.33	826.41	0	-878.06	2	-370.29	2	-284.03	2.35	-214.41
75	76	94.10	-1437.04	-45.73	916.24	0	-816.43	2	-393.83	2	-301.00	2.35	-241.82
76	76	94.10	-1437.04	-45.73	916.24	0	-816.43	2	-393.83	2	-301.00	2.35	-241.82
76	77	95.68	-1437.04	-23.14	970.49	0	-779.21	2	-408.03	2	-311.25	2.35	-258.38

CÁLCULO TENSIONAL

Hipótesis de cálculo:

INFREC1.GRAD.TInf.MZ-

entes con gradiente. Dominante GRAD. TInf

[1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .976]IPF75B.MZ- + [0; .4]PASE

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1437.04	-23.14	970.49	0	-779.21	2	-408.03	2	-311.25	2.35	-258.38
77	78	97.25	-1437.04	4.51	984.74	0	-769.39	2	-411.91	2	-313.93	2.35	-262.62
78	78	97.25	-1437.04	4.51	984.74	0	-769.39	2	-411.91	2	-313.93	2.35	-262.62
78	79	98.83	-1437.04	27.10	959.86	0	-786.40	2	-405.66	2	-309.20	2.35	-254.84
79	79	98.83	-1437.04	27.10	959.86	0	-786.40	2	-405.66	2	-309.20	2.35	-254.84
79	80	100.40	-1437.04	49.70	899.36	0	-827.85	2	-390.07	2	-297.75	2.35	-236.19
80	80	100.40	-1437.04	49.70	899.36	0	-827.85	2	-390.07	2	-297.75	2.35	-236.19
80	81	101.98	-1437.04	72.29	803.33	0	-893.68	2	-365.15	2	-279.59	2.35	-206.70
81	81	101.98	-1437.04	72.29	803.33	0	-893.68	2	-365.15	2	-279.59	2.35	-206.70
81	82	103.55	-1437.04	94.88	671.68	0	-983.95	2	-330.89	2	-254.70	2.35	-166.35
82	82	103.55	-1437.44	129.15	671.87	0	-983.37	2	-331.24	2	-255.03	2.35	-166.79
82	83	105.13	-1437.60	151.74	450.23	0	-1135.73	2	-271.77	2	-213.39	2.35	-99.40
83	83	105.13	-1437.60	151.74	450.23	0	-926.74	2	-347.31	2	-283.41	2.35	-203.99
83	84	106.70	-1437.74	174.34	192.98	0	-1099.13	2	-256.10	2	-213.94	2.35	-101.75
84	84	106.70	-980.55	140.07	412.34	0	-561.24	2	-276.83	2	-221.40	2.35	-177.29
84	85	108.28	-980.55	221.03	137.23	0	-744.95	2	-181.71	2	-146.53	2.35	-66.85
85	85	108.28	-980.55	221.03	137.23	0	-745.60	2	-179.33	2	-146.53	2.35	-67.64
85	86	109.85	-980.69	299.65	-273.47	0	-1019.59	2	-39.66	2	-34.14	2.35	99.27
?	86	109.85	-524.08	299.67	-41.15	0	-472.15	2	-66.13	2	-45.61	2.35	17.95
	87	111.43	-524.08	375.39	-576.26	0	-828.18	2	114.29	2	100.96	2.35	236.59
87	87	111.43	-524.08	375.39	-576.26	0	-828.18	2	114.29	2	100.96	2.35	236.59
87	88	112.00	-524.08	415.97	-808.56	0	-982.64	2	192.24	2	164.67	2.35	331.89
88	88	112.00	-546.59	415.97	-280.89	0	-635.16	2	-22.00	2	19.97	2.35	122.97
88	89	113.00	-546.59	473.22	-730.66	0	-934.14	2	128.69	2	143.36	2.35	307.76
89	1089	113.00	-546.59	-471.42	-730.66	0	-934.14	2	128.69	2	143.36	2.35	307.76
89	90	114.00	-546.59	-414.21	-282.84	0	-636.45	2	-21.37	2	20.51	2.35	123.81
90	90	114.00	-524.08	-414.21	-810.51	0	-983.93	2	192.88	2	165.20	2.35	332.73
90	91	114.58	-524.08	-373.72	-579.76	0	-830.50	2	115.44	2	101.92	2.35	238.11
91	91	114.58	-524.08	-373.72	-579.76	0	-830.50	2	115.44	2	101.92	2.35	238.11
91	92	116.15	-524.08	-298.17	-47.53	0	-476.38	2	-64.03	2	-43.86	2.35	20.71
92	92	116.15	-980.68	-298.17	-279.85	0	-1023.79	2	-37.57	2	-32.39	2.35	102.02
92	93	117.73	-980.54	-220.00	128.12	0	-751.61	2	-176.33	2	-144.04	2.35	-63.70
93	93	117.73	-980.54	-220.00	128.12	0	-750.96	2	-178.80	2	-144.02	2.35	-62.87
93	94	119.30	-980.54	-145.93	406.78	0	-564.90	2	-275.05	2	-219.88	2.35	-174.80
94	94	119.30	-1437.81	-180.19	187.43	0	-1102.82	2	-254.35	2	-212.44	2.35	-99.28
94	95	120.88	-1437.66	-157.58	453.89	0	-924.34	2	-348.49	2	-284.48	2.35	-205.42
95	95	120.88	-1437.66	-157.58	453.89	0	-1133.27	2	-272.60	2	-214.14	2.35	-100.48
95	96	122.45	-1437.51	-134.99	684.77	0	-974.65	2	-334.13	2	-257.57	2.35	-170.90
96	96	122.45	-1437.04	-100.73	684.59	0	-975.22	2	-333.76	2	-257.23	2.35	-170.44
96	97	124.03	-1437.04	-78.14	825.45	0	-878.71	2	-370.07	2	-283.91	2.35	-213.81
97	97	124.03	-1437.04	-78.14	825.45	0	-878.71	2	-370.07	2	-283.91	2.35	-213.81
97	98	125.60	-1437.04	-55.54	930.72	0	-806.63	2	-397.04	2	-303.86	2.35	-246.32
98	98	125.60	-1437.04	-55.54	930.72	0	-806.63	2	-397.04	2	-303.86	2.35	-246.32
98	99	127.18	-1437.04	-32.95	1000.40	0	-758.97	2	-414.68	2	-317.09	2.35	-267.97
?	99	127.18	-1437.04	-32.95	1000.40	0	-758.97	2	-414.68	2	-317.09	2.35	-267.97
	100	128.75	-1437.04	-10.36	1034.51	0	-735.72	2	-422.98	2	-323.61	2.35	-278.77
100	100	128.75	-1437.04	-10.36	1034.51	0	-735.72	2	-422.98	2	-323.61	2.35	-278.77
100	101	130.33	-1437.04	12.23	1033.06	0	-736.87	2	-421.94	2	-323.41	2.35	-278.72
101	101	130.33	-1437.04	12.23	1033.06	0	-736.87	2	-421.94	2	-323.41	2.35	-278.72
101	102	131.90	-1437.04	39.40	991.36	0	-765.60	2	-410.53	2	-315.59	2.35	-266.27
102	102	131.90	-1437.04	39.40	991.36	0	-765.60	2	-410.53	2	-315.59	2.35	-266.27
102	103	133.48	-1437.04	62.00	911.50	0	-820.49	2	-389.22	2	-300.55	2.35	-242.12
103	103	133.48	-1437.04	62.00	911.50	0	-820.49	2	-389.22	2	-300.55	2.35	-242.12
103	104	135.05	-1437.04	84.59	796.06	0	-899.80	2	-358.56	2	-278.79	2.35	-207.12
104	104	135.05	-1437.34	118.87	796.26	0	-899.17	2	-358.88	2	-279.09	2.35	-207.54
104	105	136.63	-1437.49	141.46	590.80	0	-1040.59	2	-303.01	2	-240.58	2.35	-145.48
105	105	136.63	-1437.49	141.46	590.80	0	-833.89	2	-392.18	2	-322.45	2.35	-263.62
105	106	138.20	-1437.66	164.05	349.76	0	-995.59	2	-306.15	2	-257.47	2.35	-168.30
106	106	138.20	-980.58	129.78	569.12	0	-457.73	2	-326.92	2	-264.97	2.35	-243.87
106	107	139.78	-980.58	230.66	302.15	0	-636.06	2	-234.42	2	-192.36	2.35	-136.62
107	107	139.78	-980.58	230.66	302.15	0	-636.92	2	-231.38	2	-192.35	2.35	-137.59
107	108	141.35	-980.72	304.34	-115.46	0	-915.48	2	-89.47	2	-78.04	2.35	32.28
108	108	141.35	-524.08	304.37	116.87	0	-367.98	2	-115.94	2	-89.52	2.35	-49.06
108	109	142.93	-524.08	389.64	-434.12	0	-734.52	2	69.60	2	61.46	2.35	176.38
109	109	142.93	-524.08	389.64	-434.12	0	-734.52	2	69.60	2	61.46	2.35	176.38
109	110	143.50	-524.08	428.69	-668.78	0	-890.53	2	148.32	2	125.82	2.35	272.68
110	110	143.50	-546.59	428.69	-141.11	0	-543.05	2	-65.92	2	-18.88	2.35	63.76
110	111	144.50	-546.59	470.16	-589.95	0	-841.42	2	84.50	2	104.25	2.35	248.17
111	1111	144.50	-546.59	-380.67	-589.95	0	-841.42	2	84.50	2	104.25	2.35	248.17
1'	112	145.50	-546.59	-330.39	-234.63	0	-605.26	2	-34.46	2	6.79	2.35	102.00
11	112	145.50	-426.26	-330.39	-710.57	0	-834.19	2	173.36	2	148.54	2.35	292.78
112	113	145.68	-426.26	-304.41	-654.04	0	-796.61	2	154.42	2	133.03	2.35	269.55
113	113	145.68	-426.26	-304.41	-654.04	0	-796.61	2	154.42	2	133.03	2.35	269.55
113	114	146.85	-426.26	-246.07	-328.74	0	-580.24	2	44.95	2	43.93	2.35	136.33
114	114	146.85	-785.23	-246.03	-511.28	0	-1010.82	2	65.83	2	53.04	2.35	200.40
114	115	148.03	-785.09	-174.40	-263.88	0	-845.65	2	-18.24	2	-14.69	2.35	99.58

combi_tl.xls

Programa DINTEL . IDEAM S.A.
INFREC1.GRAD.TInf.MZ-

04/09/01

CÁLCULO TENSIONAL

ipótesis de cálculo:

NFREC1.GRAD.TInf.MZ-

ifrecuentes con gradiente. Dominante GRAD. TInf

. 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; 1]GRAD + [0; .976]IPF75B.MZ- + [0; .4]PASE

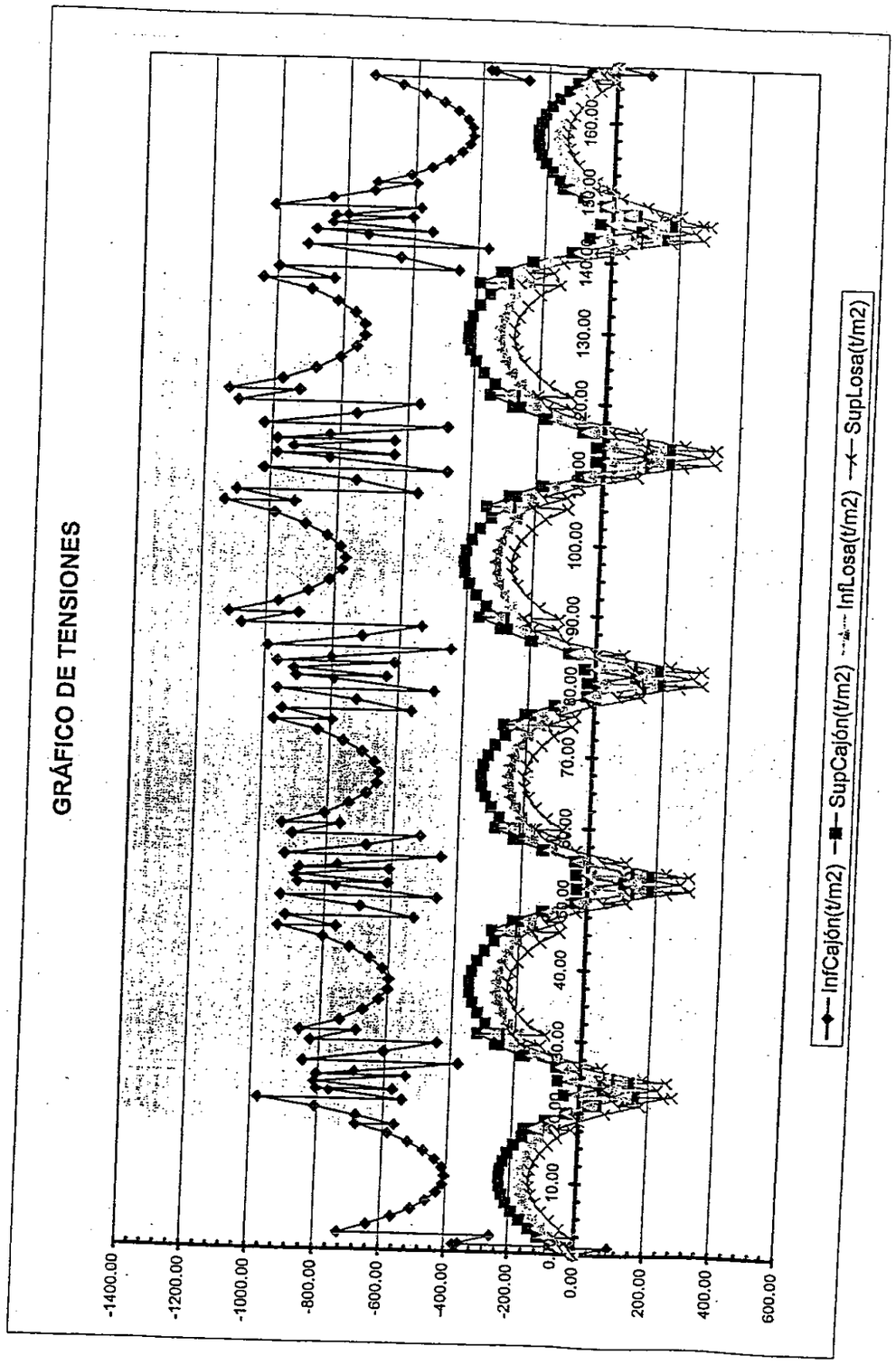
ef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-785.09	-174.40	-263.88	0	-844.44	2	-21.75	2	-14.81	2.35	100.52
115	116	149.20	-785.09	-148.87	-76.85	0	-719.77	2	-85.61	2	-65.80	2.35	24.94
116	116	149.20	-786.15	-173.98	-76.67	0	-719.42	2	-86.32	2	-66.45	2.35	24.16
116	117	150.38	-785.68	-131.38	108.11	0	-595.87	2	-150.26	2	-116.44	2.35	-50.00
117	117	150.38	-785.68	-131.38	108.11	0	-712.10	2	-123.54	2	-89.91	2.35	-6.47
117	118	151.55	-785.54	-114.53	252.84	0	-612.86	2	-161.42	2	-117.11	2.35	-51.06
118	118	151.55	-784.92	-89.45	252.69	0	-613.35	2	-161.00	2	-116.73	2.35	-50.56
118	119	152.73	-784.92	-72.59	347.89	0	-548.25	2	-185.05	2	-134.75	2.35	-80.30
119	119	152.73	-784.92	-72.59	347.89	0	-548.25	2	-185.05	2	-134.75	2.35	-80.30
119	120	153.90	-784.92	-55.73	423.28	0	-496.74	2	-203.89	2	-149.03	2.35	-104.00
120	120	153.90	-784.92	-55.73	423.28	0	-496.74	2	-203.89	2	-149.03	2.35	-104.00
120	121	155.08	-784.92	-38.88	478.87	0	-458.82	2	-217.54	2	-159.56	2.35	-121.65
121	121	155.08	-784.92	-38.88	478.87	0	-458.82	2	-217.54	2	-159.56	2.35	-121.65
121	122	156.25	-784.92	-22.02	514.66	0	-434.49	2	-225.99	2	-166.36	2.35	-133.27
122	122	156.25	-784.92	-22.02	514.66	0	-434.49	2	-225.99	2	-166.36	2.35	-133.27
122	123	157.43	-784.92	-5.17	530.64	0	-423.75	2	-229.24	2	-169.42	2.35	-138.84
123	123	157.43	-784.92	-5.17	530.64	0	-423.75	2	-229.24	2	-169.42	2.35	-138.84
123	124	158.60	-784.92	11.69	526.84	0	-426.59	2	-227.31	2	-168.74	2.35	-138.38
124	124	158.60	-784.92	11.69	526.84	0	-426.59	2	-227.31	2	-168.74	2.35	-138.38
124	125	159.78	-784.92	28.54	503.20	0	-443.03	2	-220.17	2	-164.32	2.35	-131.87
125	125	159.78	-784.92	28.54	503.20	0	-443.03	2	-220.17	2	-164.32	2.35	-131.87
125	126	160.95	-784.92	45.39	459.74	0	-473.09	2	-207.82	2	-156.15	2.35	-119.31
126	126	160.95	-784.92	45.39	459.74	0	-473.09	2	-207.82	2	-156.15	2.35	-119.31
126	127	162.13	-784.92	62.25	396.51	0	-516.70	2	-190.30	2	-144.26	2.35	-100.72
127	127	162.13	-784.92	62.25	396.51	0	-516.70	2	-190.30	2	-144.26	2.35	-100.72
127	128	163.30	-784.92	79.10	313.47	0	-573.91	2	-167.57	2	-128.62	2.35	-76.08
128	128	163.30	-784.92	79.10	313.47	0	-573.91	2	-167.57	2	-128.62	2.35	-76.08
128	129	164.48	-784.92	95.96	210.63	0	-644.71	2	-139.64	2	-109.24	2.35	-45.40
129	129	164.48	-784.92	95.96	210.63	0	-644.71	2	-139.64	2	-109.24	2.35	-45.40
129	130	165.65	-784.92	112.82	87.97	0	-729.11	2	-106.52	2	-86.12	2.35	-8.68
130	130	165.65	-426.26	112.82	243.33	0	-260.82	2	-113.13	2	-83.32	2.35	-63.16
130	131	166.83	-426.26	129.68	100.88	0	-358.80	2	-74.81	2	-56.47	2.35	-20.40
131	131	166.83	-426.26	129.68	100.88	0	-358.80	2	-74.81	2	-56.47	2.35	-20.40
131	132	167.00	-426.26	132.19	77.95	0	-374.57	2	-68.65	2	-52.14	2.35	-13.50
132	132	167.00	0.00	132.19	142.70	0	98.14	2	-38.37	2	-26.90	2.35	-42.91
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.IPF75B.EnvTrenGen.MZ-.TInf.MZ-
Infrecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-, TInf
1: 1)Pvigas + [.95; 1.05]fase1.tSO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.tSO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .5]GRAD + [0; 1.22]IPF75B.MZ- + [0; .5]PASI
coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
1	1	0.00	0.00	-177.11	0.00								
1	2	1.00	0.00	-129.46	139.98	0	0.00	2	0.00	2	0.00	2.35	0.00
2	2	1.00	-426.26	-129.46	75.23	0	96.31	2	-37.76	2	-26.37	2.35	-42.04
2	3	1.18	-426.26	-126.95	97.68	0	-376.40	2	-68.05	2	-51.62	2.35	-12.63
3	3	1.18	-426.26	-126.95	97.68	0	-360.97	2	-74.10	2	-55.84	2.35	-19.36
3	4	2.35	-426.26	-110.09	236.94	0	-360.97	2	-74.10	2	-55.84	2.35	-19.36
4	4	2.35	-784.92	-110.09	81.58	0	-265.14	2	-111.71	2	-82.08	2.35	-61.09
4	5	3.53	-784.92	-93.24	201.02	0	-733.44	2	-105.10	2	-84.87	2.35	-6.61
5	5	3.53	-784.92	-93.24	201.02	0	-651.21	2	-137.51	2	-107.37	2.35	-42.29
5	6	4.70	-784.92	-76.37	300.66	0	-651.21	2	-137.51	2	-107.37	2.35	-42.29
6	6	4.70	-784.92	-76.37	300.66	0	-582.58	2	-164.72	2	-126.13	2.35	-71.93
6	7	5.88	-784.92	-59.51	380.50	0	-582.58	2	-164.72	2	-126.13	2.35	-71.93
7	7	5.88	-784.92	-59.51	380.50	0	-527.53	2	-186.73	2	-141.15	2.35	-95.54
7	8	7.05	-784.92	-42.66	440.54	0	-527.53	2	-186.73	2	-141.15	2.35	-95.54
8	8	7.05	-784.92	-42.66	440.54	0	-486.07	2	-203.55	2	-152.43	2.35	-113.10
8	9	8.23	-784.92	-25.82	480.78	0	-486.07	2	-203.55	2	-152.43	2.35	-113.10
9	9	8.23	-784.92	-25.82	480.78	0	-458.20	2	-215.18	2	-159.97	2.35	-124.61
9	10	9.40	-784.92	-8.96	501.22	0	-458.20	2	-215.18	2	-159.97	2.35	-124.61
10	10	9.40	-784.92	-8.96	501.22	0	-443.92	2	-221.61	2	-163.77	2.35	-130.09
10	11	10.58	-784.92	7.89	501.84	0	-443.92	2	-221.61	2	-163.77	2.35	-130.09
11	11	10.58	-784.92	7.89	501.84	0	-443.24	2	-222.84	2	-163.83	2.35	-129.52
11	12	11.75	-784.92	24.75	482.65	0	-443.24	2	-222.84	2	-163.83	2.35	-129.52
12	12	11.75	-784.92	24.75	482.65	0	-456.15	2	-218.87	2	-160.15	2.35	-122.91
12	13	12.93	-784.92	41.61	443.68	0	-456.15	2	-218.87	2	-160.15	2.35	-122.91
13	13	12.93	-784.92	41.61	443.68	0	-482.63	2	-209.71	2	-152.73	2.35	-110.27
13	14	14.10	-784.92	58.47	384.86	0	-482.63	2	-209.71	2	-152.73	2.35	-110.27
14	14	14.10	-784.92	58.47	384.86	0	-522.73	2	-195.34	2	-141.56	2.35	-91.57
14	15	15.28	-784.92	75.32	306.27	0	-522.73	2	-195.34	2	-141.56	2.35	-91.57
15	15	15.28	-784.92	75.32	306.27	0	-576.41	2	-175.79	2	-126.67	2.35	-66.83
15	16	16.45	-784.92	92.18	207.87	0	-576.41	2	-175.79	2	-126.67	2.35	-66.83
16	16	16.45	-785.57	117.27	208.03	0	-643.67	2	-151.03	2	-108.03	2.35	-36.06
16	17	17.63	-785.72	134.13	60.09	0	-643.19	2	-151.46	2	-108.42	2.35	-36.57
17	17	17.63	-785.72	134.13	60.09	0	-744.60	2	-112.87	2	-80.59	2.35	9.05
17	18	18.80	-786.19	176.22	-118.93	0	-627.50	2	-134.94	2	-103.08	2.35	-29.87
18	18	18.80	-785.09	151.12	-119.10	0	-747.33	2	-72.83	2	-54.68	2.35	41.99
18	19	19.98	-785.09	186.86	-311.53	0	-747.67	2	-72.11	2	-54.02	2.35	42.78
19	19	19.98	-785.09	186.86	-311.53	0	-875.90	2	-6.54	2	-1.53	2.35	120.65
19	20	21.15	-785.23	263.18	-580.84	0	-877.12	2	-3.00	2	-1.42	2.35	119.70
20	20	21.15	-426.26	263.23	-398.30	0	[illegible]	2	88.08	2	72.40	2.35	229.85
20	21	22.33	-426.26	351.00	-761.16	0	-626.18	2	67.19	2	63.29	2.35	165.78
21	21	22.33	-426.26	351.00	-761.16	0	-867.35	2	188.67	2	162.82	2.35	315.01
21	22	22.50	-426.26	367.54	-824.40	0	-867.35	2	188.67	2	162.82	2.35	315.01
22	22	22.50	-546.59	367.54	-348.47	0	-909.36	2	209.75	2	180.18	2.35	341.10
22	23	23.50	-546.59	420.35	-742.15	0	-680.43	2	1.93	2	38.44	2.35	150.32
23	1023	23.50	-546.59	-484.59	-742.15	0	-941.93	2	133.15	2	146.55	2.35	312.83
23	24	24.50	-546.59	-423.34	-285.39	0	-941.93	2	133.15	2	146.55	2.35	312.83
24	24	24.50	-458.86	-423.34	-778.57	0	-638.49	2	-19.25	2	21.11	2.35	124.48
24	25	24.95	-458.86	-398.57	-590.39	0	-906.93	2	190.71	2	163.84	2.35	321.31
25	25	24.95	-458.86	-398.57	-590.39	0	-781.91	2	127.90	2	112.17	2.35	243.76
25	26	26.40	-458.86	-305.79	-73.75	0	-781.91	2	127.90	2	112.17	2.35	243.76
26	26	26.40	-850.30	-305.76	-272.89	0	-438.48	2	-45.22	2	-29.56	2.35	31.51
26	27	27.85	-850.17	-227.34	110.39	0	[illegible]	2	-22.51	2	-19.70	2.35	101.26
27	27	27.85	-850.17	-227.34	110.39	0	-552.31	2	-152.19	2	-124.73	2.35	-55.26
27	28	29.30	-850.17	-119.19	360.05	0	-651.35	2	-155.55	2	-124.75	2.35	-54.19
28	28	29.30	-1176.81	-149.65	203.42	0	-484.76	2	-241.44	2	-192.77	2.35	-154.85
28	29	30.75	-1176.65	-128.85	405.68	0	-868.80	2	-226.75	2	-187.55	2.35	-101.05
29	29	30.75	-1176.65	-128.85	405.68	0	-733.13	2	-298.91	2	-242.06	2.35	-181.04
29	30	32.20	-1176.51	-108.05	577.79	0	-903.49	2	-234.23	2	-181.69	2.35	-92.04
30	30	32.20	-1176.20	-77.58	577.61	0	-785.04	2	-281.02	2	-213.94	2.35	-144.03
30	31	33.65	-1176.20	-56.77	674.98	0	-785.63	2	-280.70	2	-213.64	2.35	-143.62
31	31	33.65	-1176.20	-56.77	674.98	0	-718.73	2	-306.57	2	-231.99	2.35	-173.16
31	32	35.10	-1176.20	-35.99	742.23	0	-718.73	2	-306.57	2	-231.99	2.35	-173.16
32	32	35.10	-1176.20	-35.99	742.23	0	-672.51	2	-324.55	2	-244.64	2.35	-193.51
32	33	36.55	-1176.20	-15.18	779.28	0	-672.51	2	-324.55	2	-244.64	2.35	-193.51
33	33	36.55	-1176.20	-15.18	779.28	0	-647.00	2	-334.59	2	-251.59	2.35	-204.65
33	34	38.00	-1176.20	11.54	778.94	0	-647.00	2	-334.59	2	-251.59	2.35	-204.65
34	34	38.00	-1176.20	11.54	778.94	0	-647.09	2	-335.12	2	-251.45	2.35	-204.20
34	35	39.45	-1176.20	32.35	747.14	0	-647.09	2	-335.12	2	-251.45	2.35	-204.20
35	35	39.45	-1176.20	32.35	747.14	0	-668.75	2	-327.45	2	-245.36	2.35	-194.12
35	36	40.90	-1176.20	53.14	685.15	0	-668.75	2	-327.45	2	-245.36	2.35	-194.12
36	36	40.90	-1176.20	53.14	685.15	0	-711.13	2	-311.85	2	-233.57	2.35	-174.84
36	37	42.35	-1176.20	73.93	593.02	0	-711.13	2	-311.85	2	-233.57	2.35	-174.84
37	37	42.35	-1176.20	73.93	593.02	0	-774.18	2	-288.35	2	-216.10	2.35	-146.36
37	38	43.80	-1176.20	94.74	470.71	0	-774.18	2	-288.35	2	-216.10	2.35	-146.36
38	38	43.80	-1176.68	125.21	470.89	0	-857.96	2	-256.92	2	-192.92	2.35	-108.66
38	39	45.25	-1176.82	146.01	273.91	0	-857.41	2	-257.30	2	-193.26	2.35	-109.13
						0	-992.69	2	-204.98	2	-156.19	2.35	-49.01



CÁLCULO TENSIONAL

Hipótesis de cálculo:
INFREC1.IPF75B.EnvTrenGen.MZ-.Tinf.MZ-
...ientes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-. Tinf

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ- + [0; .5]PAS

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
39	39	45.25	-1176.82	146.01	273.91	0	-820.20	2	-256.88	2	-205.44	2.35	-125.32
39	40	46.70	-1176.98	166.81	46.75	0	-972.31	2	-176.76	2	-144.01	2.35	-34.79
40	40	46.70	-850.10	136.35	203.37	0	-588.19	2	-191.37	2	-149.16	2.35	-88.53
40	41	48.15	-850.10	217.52	-46.18	0	-754.72	2	-105.52	2	-81.14	2.35	12.00
41	41	48.15	-850.10	217.52	-46.18	0	-755.45	2	-102.76	2	-81.16	2.35	11.06
41	42	49.60	-850.25	296.25	-422.48	0	[illegible]	2	24.60	2	21.96	2.35	164.55
42	42	49.60	-458.86	296.27	-223.34	0	-537.09	2	1.91	2	12.12	2.35	94.83
42	43	51.05	-458.86	397.30	-725.10	0	-870.68	2	170.20	2	149.74	2.35	300.68
43	43	51.05	-458.86	397.30	-725.10	0	-870.68	2	170.20	2	149.74	2.35	300.68
43	44	51.50	-458.86	421.34	-911.49	0	-994.52	2	232.42	2	200.92	2.35	377.45
44	44	51.50	-546.59	421.34	-418.32	0	-726.07	2	22.45	2	58.19	2.35	180.62
44	45	52.50	-546.59	484.18	-875.60	0	-1029.84	2	174.97	2	183.78	2.35	369.16
45	1045	52.50	-546.59	488.73	-875.60	0	-1029.84	2	174.97	2	183.78	2.35	369.16
45	46	53.50	-546.59	425.73	-412.91	0	-722.49	2	20.70	2	56.69	2.35	178.31
46	46	53.50	-458.86	425.73	-906.09	0	-990.94	2	230.67	2	199.42	2.35	375.13
46	47	53.95	-458.86	401.64	-717.41	0	-865.60	2	167.71	2	147.61	2.35	297.39
47	47	53.95	-458.86	401.64	-717.41	0	-865.60	2	167.71	2	147.61	2.35	297.39
47	48	55.40	-458.86	299.92	-207.02	0	-526.30	2	-3.36	2	7.60	2.35	87.86
3	48	55.40	-850.28	-299.90	-406.16	0	[illegible]	2	19.33	2	17.44	2.35	157.58
1	49	56.85	-850.14	-226.70	-22.97	0	-740.14	2	-110.27	2	-87.58	2.35	1.15
49	49	56.85	-850.14	-226.70	-22.97	0	-739.41	2	-112.94	2	-87.58	2.35	2.03
49	50	58.30	-850.14	-124.08	226.36	0	-573.03	2	-198.73	2	-155.53	2.35	-98.37
50	50	58.30	-1176.88	-154.53	69.74	0	-957.10	2	-184.08	2	-150.35	2.35	-44.60
50	51	59.75	-1176.73	-133.75	279.12	0	-816.73	2	-258.51	2	-206.84	2.35	-127.55
51	51	59.75	-1176.73	-133.75	279.12	0	-989.14	2	-206.11	2	-157.16	2.35	-50.73
51	52	61.20	-1176.56	-112.94	458.34	0	-865.87	2	-254.47	2	-190.79	2.35	-105.00
52	52	61.20	-1176.20	-82.47	458.16	0	-866.45	2	-254.13	2	-190.48	2.35	-104.57
52	53	62.65	-1176.20	-61.67	562.66	0	-794.73	2	-281.59	2	-210.21	2.35	-136.39
53	53	62.65	-1176.20	-61.67	562.66	0	-794.73	2	-281.59	2	-210.21	2.35	-136.39
53	54	64.10	-1176.20	-40.86	637.02	0	-743.69	2	-301.14	2	-224.25	2.35	-159.02
54	54	64.10	-1176.20	-40.86	637.02	0	-743.69	2	-301.14	2	-224.25	2.35	-159.02
54	55	65.55	-1176.20	-20.08	681.21	0	-713.36	2	-312.78	2	-232.60	2.35	-172.44
55	55	65.55	-1176.20	-20.08	681.21	0	-713.36	2	-312.78	2	-232.60	2.35	-172.44
55	56	67.00	-1176.20	7.99	688.74	0	-708.11	2	-315.06	2	-233.99	2.35	-174.52
56	56	67.00	-1176.20	7.99	688.74	0	-708.11	2	-315.06	2	-233.99	2.35	-174.52
56	57	68.45	-1176.20	28.79	662.07	0	-726.30	2	-308.52	2	-228.91	2.35	-166.06
57	57	68.45	-1176.20	28.79	662.07	0	-726.30	2	-308.52	2	-228.91	2.35	-166.06
57	58	69.90	-1176.20	49.58	605.25	0	-765.18	2	-294.07	2	-218.14	2.35	-148.41
58	58	69.90	-1176.20	49.58	605.25	0	-765.18	2	-294.07	2	-218.14	2.35	-148.41
58	59	71.35	-1176.20	70.39	518.26	0	-824.76	2	-271.71	2	-201.66	2.35	-121.55
59	59	71.35	-1176.20	70.39	518.26	0	-824.76	2	-271.71	2	-201.66	2.35	-121.55
59	60	72.80	-1176.20	91.19	401.10	0	-905.05	2	-241.43	2	-179.50	2.35	-85.49
60	60	72.80	-1176.62	121.64	401.27	0	-904.49	2	-241.78	2	-179.82	2.35	-85.93
60	61	74.25	-1176.79	142.45	209.42	0	[illegible]	2	-190.61	2	-143.76	2.35	-27.44
	61	74.25	-1176.79	142.45	209.42	0	-862.75	2	-236.27	2	-187.59	2.35	-97.52
	62	75.70	-1176.93	163.25	-12.62	0	-1011.48	2	-157.78	2	-127.59	2.35	-9.09
62	62	75.70	-850.14	132.78	144.02	0	-627.38	2	-172.42	2	-132.77	2.35	-62.86
62	63	77.15	-850.14	216.73	-108.09	0	-795.60	2	-85.75	2	-64.06	2.35	38.62
63	63	77.15	-850.14	216.73	-108.09	0	-796.38	2	-82.94	2	-64.06	2.35	37.70
63	64	78.60	-850.28	300.92	-480.96	0	-1045.03	2	43.38	2	38.09	2.35	189.77
64	64	78.60	-458.86	300.94	-281.82	0	-575.71	2	20.68	2	28.24	2.35	120.04
64	65	80.05	-458.86	381.85	-778.78	0	-906.14	2	187.48	2	164.51	2.35	323.88
65	65	80.05	-458.86	381.85	-778.78	0	-906.14	2	187.48	2	164.51	2.35	323.88
65	66	80.50	-458.86	425.82	-962.17	0	-1028.00	2	248.75	2	214.86	2.35	399.39
66	66	80.50	-546.59	425.82	-468.99	0	-759.55	2	38.79	2	72.13	2.35	202.56
66	67	81.50	-546.59	488.32	-927.31	0	-1064.02	2	191.67	2	198.00	2.35	391.57
67	1067	81.50	-546.59	-521.44	-927.31	0	-1064.02	2	191.67	2	198.00	2.35	391.57
67	68	82.50	-546.59	-459.47	-430.77	0	-734.16	2	26.02	2	61.63	2.35	186.84
68	68	82.50	-524.08	-459.47	-958.44	0	-1081.63	2	240.26	2	206.32	2.35	395.76
68	69	83.08	-524.08	-427.44	-699.15	0	-909.36	2	153.69	2	135.12	2.35	288.96
69	69	83.08	-524.08	-427.44	-699.15	0	-909.36	2	153.69	2	135.12	2.35	288.96
69	70	84.65	-524.08	-318.06	-110.08	0	-517.70	2	-43.98	2	-26.42	2.35	47.31
70	70	84.65	-980.71	-318.05	-342.41	0	-1065.17	2	-17.52	2	-14.95	2.35	128.63
70	71	86.23	-980.57	-238.62	97.89	0	-771.64	2	-166.65	2	-135.57	2.35	-50.89
71	71	86.23	-980.57	-238.62	97.89	0	-770.93	2	-169.17	2	-135.57	2.35	-50.07
71	72	87.80	-980.57	-136.12	370.74	0	-588.72	2	-263.55	2	-209.81	2.35	-159.76
72	72	87.80	-1437.72	-170.39	151.38	0	-1126.60	2	-242.80	2	-202.34	2.35	-84.20
72	73	89.38	-1437.57	-147.79	402.39	0	-958.32	2	-332.02	2	-270.09	2.35	-183.75
73	73	89.38	-1437.57	-147.79	402.39	0	[illegible]	2	-261.12	2	-204.10	2.35	-83.76
	74	90.95	-1437.40	-125.20	617.85	0	-1019.90	2	-319.21	2	-244.55	2.35	-149.08
	74	90.95	-1437.04	-90.93	617.65	0	-1020.51	2	-318.88	2	-244.23	2.35	-148.65
74	75	92.53	-1437.04	-68.34	743.08	0	-934.44	2	-351.75	2	-267.93	2.35	-186.92
75	75	92.53	-1437.04	-68.34	743.08	0	-934.44	2	-351.75	2	-267.93	2.35	-186.92
75	76	94.10	-1437.04	-45.74	832.92	0	-872.79	2	-375.29	2	-284.90	2.35	-214.34
76	76	94.10	-1437.04	-45.74	832.92	0	-872.79	2	-375.29	2	-284.90	2.35	-214.34
76	77	95.68	-1437.04	-23.15	887.19	0	-835.57	2	-389.49	2	-295.15	2.35	-230.90

combi_ti.xls

Programa DINTEL IDEAM S.A.
INFREC1.IPF75B.EnvTrenGen.MZ-.Tinf.MZ-

04/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
NFREC1.IPF75B.EnvTrenGen.MZ-.Tinf.MZ-
...nfrecuentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-. Tinf

1; 1]Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ- + [0; .5]PAS

oef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
77	77	95.68	-1437.04	-23.15	887.19	0	-835.57	2	-389.49	2	-295.15	2.35	-230.90
77	78	97.25	-1437.04	5.76	900.35	0	-826.49	2	-393.13	2	-297.62	2.35	-234.78
78	78	97.25	-1437.04	5.76	900.35	0	-826.49	2	-393.13	2	-297.62	2.35	-234.78
78	79	98.83	-1437.04	28.36	873.50	0	-844.83	2	-386.44	2	-292.51	2.35	-226.35
79	79	98.83	-1437.04	28.36	873.50	0	-844.83	2	-386.44	2	-292.51	2.35	-226.35
79	80	100.40	-1437.04	50.95	811.02	0	-887.61	2	-370.41	2	-280.68	2.35	-207.05
80	80	100.40	-1437.04	50.95	811.02	0	-887.61	2	-370.41	2	-280.68	2.35	-207.05
80	81	101.98	-1437.04	73.55	713.01	0	-954.78	2	-345.06	2	-262.14	2.35	-176.91
81	81	101.98	-1437.04	73.55	713.01	0	-954.78	2	-345.06	2	-262.14	2.35	-176.91
81	82	103.55	-1437.04	96.13	579.39	0	-1046.39	2	-310.36	2	-236.87	2.35	-135.90
82	82	103.55	-1437.45	130.40	579.58	0	-1045.81	2	-310.71	2	-237.19	2.35	-136.35
82	83	105.13	-1437.61	152.99	355.97	0	[illegible]	2	-250.80	2	-195.18	2.35	-68.30
83	83	105.13	-1437.61	152.99	355.97	0	-988.98	2	-317.20	2	-257.26	2.35	-163.80
83	84	106.70	-1437.76	175.59	96.74	0	-1162.68	2	-225.36	2	-187.24	2.35	-60.72
84	84	106.70	-980.55	141.32	316.10	0	-624.78	2	-246.09	2	-194.70	2.35	-136.26
84	85	108.28	-980.55	229.50	35.34	0	-812.22	2	-149.16	2	-118.26	2.35	-23.41
85	85	108.28	-980.55	229.50	35.34	0	-812.87	2	-146.78	2	-118.26	2.35	-24.20
85	86	109.85	-980.69	321.10	-399.09	0	-1102.53	2	0.47	2	0.71	2.35	152.82
86	86	109.85	-524.08	321.12	-166.76	0	-555.08	2	-26.00	2	-10.76	2.35	71.50
86	87	111.43	-524.08	409.08	-746.18	0	-940.37	2	168.57	2	148.11	2.35	309.04
87	87	111.43	-524.08	409.08	-746.18	0	-940.37	2	168.57	2	148.11	2.35	309.04
87	88	112.00	-524.08	457.37	-1001.27	0	-1109.87	2	253.80	2	218.13	2.35	414.05
88	88	112.00	-546.59	457.37	-473.60	0	-762.39	2	39.56	2	73.44	2.35	205.13
88	89	113.00	-546.59	523.33	-970.42	0	-1092.43	2	205.28	2	209.88	2.35	409.98
89	1089	113.00	-546.59	-520.83	-970.42	0	-1092.43	2	205.28	2	209.88	2.35	409.98
89	90	114.00	-546.59	-454.92	-476.29	0	-764.17	2	40.43	2	74.18	2.35	206.29
90	90	114.00	-524.08	-454.92	-1003.96	0	-1111.65	2	254.68	2	218.87	2.35	415.21
90	91	114.58	-524.08	-406.74	-750.95	0	-943.53	2	170.13	2	149.42	2.35	311.09
91	91	114.58	-524.08	-406.74	-750.95	0	-943.53	2	170.13	2	149.42	2.35	311.09
91	92	116.15	-524.08	-318.99	-175.54	0	-560.89	2	-23.14	2	-8.34	2.35	75.29
92	92	116.15	-980.68	-318.99	-407.86	0	-1108.31	2	3.32	2	3.12	2.35	156.60
92	93	117.73	-980.54	-227.96	22.76	0	-821.17	2	-142.68	2	-114.80	2.35	-18.78
93	93	117.73	-980.54	-227.96	22.76	0	-820.52	2	-145.14	2	-114.79	2.35	-17.95
93	94	119.30	-980.54	-148.41	307.68	0	-630.33	2	-243.39	2	-192.39	2.35	-132.55
94	94	119.30	-1437.83	-182.68	88.33	0	-1168.25	2	-222.69	2	-184.95	2.35	-57.04
94	95	120.88	-1437.68	-160.06	358.71	0	[illegible]	2	-318.09	2	-258.08	2.35	-164.84
95	95	120.88	-1437.68	-160.06	358.71	0	-1036.41	2	-251.43	2	-195.75	2.35	-69.09
95	96	122.45	-1437.53	-137.48	593.50	0	[illegible]	2	-313.83	2	-239.94	2.35	-140.80
96	96	122.45	-1437.04	-103.21	593.31	0	-937.81	2	-313.45	2	-239.59	2.35	-140.33
96	97	124.03	-1437.04	-80.62	738.09	0	-937.81	2	-350.63	2	-267.02	2.35	-184.99
97	97	124.03	-1437.04	-80.62	738.09	0	-937.81	2	-350.63	2	-267.02	2.35	-184.99
97	98	125.60	-1437.04	-58.03	847.28	0	-863.08	2	-378.47	2	-287.73	2.35	-218.79
98	98	125.60	-1437.04	-58.03	847.28	0	-863.08	2	-378.47	2	-287.73	2.35	-218.79
98	99	127.18	-1437.04	-35.43	920.87	0	-812.77	2	-396.98	2	-301.72	2.35	-241.73
99	99	127.18	-1437.04	-35.43	920.87	0	-812.77	2	-396.98	2	-301.72	2.35	-241.73
99	100	128.75	-1437.04	-12.85	958.90	0	-786.88	2	-406.15	2	-308.99	2.35	-253.82
100	100	128.75	-1437.04	-12.85	958.90	0	-786.88	2	-406.15	2	-308.99	2.35	-253.82
100	101	130.33	-1437.04	9.75	961.36	0	-785.38	2	-405.99	2	-309.55	2.35	-255.06
101	101	130.33	-1437.04	9.75	961.36	0	-785.38	2	-405.99	2	-309.55	2.35	-255.06
101	102	131.90	-1437.04	38.06	922.42	0	-812.25	2	-395.19	2	-302.26	2.35	-243.53
102	102	131.90	-1437.04	38.06	922.42	0	-812.25	2	-395.19	2	-302.26	2.35	-243.53
102	103	133.48	-1437.04	60.66	844.67	0	-865.71	2	-374.35	2	-287.63	2.35	-220.07
103	103	133.48	-1437.04	60.66	844.67	0	-865.71	2	-374.35	2	-287.63	2.35	-220.07
103	104	135.05	-1437.04	83.25	731.34	0	-943.58	2	-344.16	2	-266.29	2.35	-185.77
104	104	135.05	-1437.33	117.52	731.54	0	-942.96	2	-344.48	2	-266.58	2.35	-186.18
104	105	136.63	-1437.48	140.12	528.20	0	[illegible]	2	-289.07	2	-228.47	2.35	-124.82
105	105	136.63	-1437.48	140.12	528.20	0	-875.22	2	-372.17	2	-305.07	2.35	-236.92
105	106	138.20	-1437.65	162.71	289.27	0	-1035.53	2	-286.83	2	-240.69	2.35	-142.50
106	106	138.20	-980.58	128.44	508.63	0	-497.67	2	-307.60	2	-248.18	2.35	-218.08
106	107	139.78	-980.58	241.83	234.40	0	-680.79	2	-212.77	2	-173.57	2.35	-107.73
107	107	139.78	-980.58	241.83	234.40	0	-681.65	2	-209.74	2	-173.55	2.35	-108.71
107	108	141.35	-980.72	327.24	-209.10	0	-977.31	2	-59.55	2	-52.06	2.35	72.21
108	108	141.35	-524.08	327.27	23.22	0	-429.81	2	-86.02	2	-63.54	2.35	-9.13
108	109	142.93	-524.08	427.18	-576.49	0	-828.51	2	115.08	2	100.96	2.35	237.08
109	109	142.93	-524.08	427.18	-576.49	0	-828.51	2	115.08	2	100.96	2.35	237.08
109	110	143.50	-524.08	473.55	-834.67	0	-1000.06	2	201.31	2	171.85	2.35	343.41
110	110	143.50	-546.59	473.55	-307.00	0	-652.58	2	-12.93	2	27.15	2.35	134.49
110	111	144.50	-546.59	519.79	-802.95	0	-982.05	2	152.55	2	163.35	2.35	338.99
111	1111	144.50	-546.59	-423.38	-802.95	0	-982.05	2	152.55	2	163.35	2.35	338.99
111	112	145.50	-546.59	-366.13	-408.47	0	-720.03	2	21.07	2	55.02	2.35	176.12
112	112	145.50	-426.26	-366.13	-884.41	0	-948.96	2	228.89	2	196.77	2.35	366.90
112	113	145.68	-426.26	-334.41	-821.87	0	-907.42	2	208.04	2	179.60	2.35	341.11
113	113	145.68	-426.26	-334.41	-821.87	0	-907.42	2	208.04	2	179.60	2.35	341.11
113	114	146.85	-426.26	-266.46	-466.51	0	-671.20	2	88.96	2	82.15	2.35	195.07
114	114	146.85	-785.23	-266.42	-649.04	0	[illegible]	2	109.84	2	91.27	2.35	259.13
114	115	148.03	-785.09	-181.86	-385.19	0	-925.74	2	20.51	2	18.96	2.35	151.30

CÁLCULO TENSIONAL

Hipótesis de cálculo:

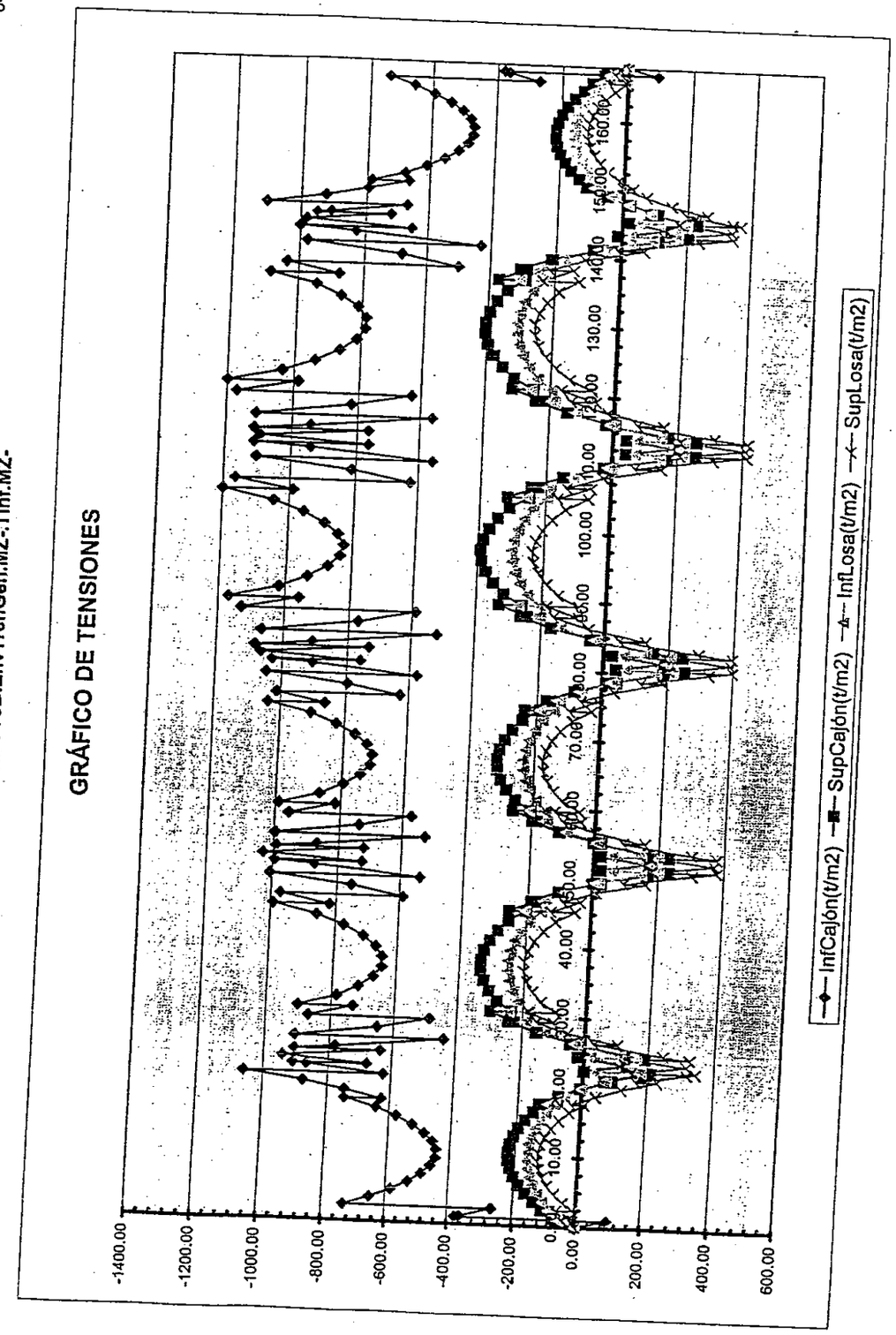
INFREC1.IPF75B.EnvTrenGen.MZ-.Tinf.MZ-

Jentes con gradiente. Dominante IPF75B.EnvTrenGen.MZ-. Tinf

(1; 1)Pvigas + [.95; 1.05]fase1.ISO.To + [1; 1]Preiosas + [1; 1]HBCV + [.9; 1.1]fase4.ISO.To + [.9; 1.1]fase4.HIP.To + [1; 1]HBCP + [1; 1]HVOL + [.7; 1.3]CMBAL + [1; 1]CMRESTO + [0; .6]GRAD + [0; 1.22]IPF75B.MZ- + [0; .5]PAS

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	Fibra y fibra	InfCajón sig (t/m2)	Fibra y fibra	SupCajón sig (t/m2)	Fibra y fibra	InfLosa sig (t/m2)	Fibra y fibra	SupLosa sig (t/m2)
115	115	148.03	-785.09	-181.86	-385.19	0	-924.53	2	17.00	2	18.85	2.35	152.24
115	116	149.20	-785.09	-154.94	-190.94	0	-795.10	2	-49.16	2	-34.14	2.35	73.58
116	116	149.20	-786.22	-180.04	-190.77	0	-794.77	2	-49.89	2	-34.81	2.35	72.79
116	117	150.38	-785.75	-137.45	1.15	0	-666.51	2	-116.12	2	-86.78	2.35	-4.42
117	117	150.38	-785.75	-137.45	1.15	0	-784.49	2	-99.77	2	-69.26	2.35	28.80
117	118	151.55	-785.61	-120.59	153.01	0	-680.42	2	-139.23	2	-97.84	2.35	-18.14
118	118	151.55	-784.92	-95.51	152.86	0	-680.89	2	-138.79	2	-97.44	2.35	-17.62
118	119	152.73	-784.92	-78.65	255.19	0	-610.96	2	-164.42	2	-116.84	2.35	-49.72
119	119	152.73	-784.92	-78.65	255.19	0	-610.96	2	-164.42	2	-116.84	2.35	-49.72
119	120	153.90	-784.92	-61.80	337.71	0	-554.63	2	-184.85	2	-132.49	2.35	-75.77
120	120	153.90	-784.92	-61.80	337.71	0	-554.63	2	-184.85	2	-132.49	2.35	-75.77
120	121	155.08	-784.92	-44.95	400.43	0	-511.89	2	-200.08	2	-144.40	2.35	-95.78
121	121	155.08	-784.92	-44.95	400.43	0	-511.89	2	-200.08	2	-144.40	2.35	-95.78
121	122	156.25	-784.92	-28.09	443.35	0	-482.73	2	-210.12	2	-152.58	2.35	-109.74
122	122	156.25	-784.92	-28.09	443.35	0	-482.73	2	-210.12	2	-152.58	2.35	-109.74
122	123	157.43	-784.92	-11.24	466.46	0	-467.17	2	-214.96	2	-157.02	2.35	-117.67
123	123	157.43	-784.92	-11.24	466.46	0	-467.17	2	-214.96	2	-157.02	2.35	-117.67
123	124	158.60	-784.92	5.62	469.79	0	-465.18	2	-214.61	2	-157.72	2.35	-119.56
[illegible]	124	158.60	-784.92	5.62	469.79	0	-465.18	2	-214.61	2	-157.72	2.35	-119.56
[illegible]	125	159.78	-784.92	22.47	453.29	0	-476.80	2	-209.06	2	-154.67	2.35	-115.40
125	125	159.78	-784.92	22.47	453.29	0	-476.80	2	-209.06	2	-154.67	2.35	-115.40
125	126	160.95	-784.92	39.33	416.95	0	-502.03	2	-198.30	2	-147.88	2.35	-105.19
126	126	160.95	-784.92	39.33	416.95	0	-502.03	2	-198.30	2	-147.88	2.35	-105.19
126	127	162.13	-784.92	56.19	360.86	0	-540.82	2	-182.36	2	-137.37	2.35	-88.95
127	127	162.13	-784.92	56.19	360.86	0	-540.82	2	-182.36	2	-137.37	2.35	-88.95
127	128	163.30	-784.92	73.04	284.95	0	-593.21	2	-161.22	2	-123.10	2.35	-66.67
128	128	163.30	-784.92	73.04	284.95	0	-593.21	2	-161.22	2	-123.10	2.35	-66.67
128	129	164.48	-784.92	89.89	189.24	0	-659.19	2	-134.88	2	-105.10	2.35	-38.35
129	129	164.48	-784.92	89.89	189.24	0	-659.19	2	-134.88	2	-105.10	2.35	-38.35
129	130	165.65	-784.92	106.75	73.71	0	[illegible]	2	-103.35	2	-83.36	2.35	-3.98
130	130	165.65	-426.26	106.75	229.07	0	-270.47	2	-109.95	2	-80.57	2.35	-58.45
130	131	166.83	-426.26	123.61	93.75	0	-363.62	2	-73.23	2	-55.09	2.35	-18.04
131	131	166.83	-426.26	123.61	93.75	0	-363.62	2	-73.23	2	-55.09	2.35	-18.04
131	132	167.00	-426.26	126.12	71.88	0	-378.68	2	-67.30	2	-50.97	2.35	-11.50
132	132	167.00	0.00	126.12	136.63	0	94.04	2	-37.02	2	-25.72	2.35	-40.91
132	133	168.00	0.00	178.03	0.00	0	0.00	2	0.00	2	0.00	2.35	0.00



Subanejo 7

ENVOLVENTES DE ROTURA. FLEXIÓN

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.GRAD.MZ+

Rotura.Dominante GRAD. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-153.47	0.00
1	2	1.00	0.00	-357.05	378.71
2	2	1.00	0.00	-357.05	378.71
2	3	1.18	0.00	-350.65	440.19
3	3	1.18	0.00	-350.65	440.19
3	4	2.35	0.00	-308.28	823.49
4	4	2.35	0.00	-308.28	823.49
4	5	3.53	0.00	-265.97	1154.74
5	5	3.53	0.00	-265.97	1154.74
5	6	4.70	0.00	-223.48	1438.06
6	6	4.70	0.00	-223.48	1438.06
6	7	5.88	0.00	-180.82	1672.42
7	7	5.88	0.00	-180.82	1672.42
7	8	7.05	0.00	-130.95	1855.71
8	8	7.05	0.00	-130.95	1855.71
8	9	8.23	0.00	-88.66	1988.13
9	9	8.23	0.00	-88.66	1988.13
9	10	9.40	0.00	-46.16	2071.74
10	10	9.40	0.00	-46.16	2071.74
10	11	10.58	0.00	-11.22	2106.07
11	11	10.58	0.00	-11.22	2106.07
11	12	11.75	0.00	38.14	2088.02
12	12	11.75	0.00	38.14	2088.02
12	13	12.93	0.00	74.48	2021.79
13	13	12.93	0.00	74.48	2021.79
13	14	14.10	0.00	122.94	1905.44
14	14	14.10	0.00	122.94	1905.44
14	15	15.28	0.00	158.77	1740.99
15	15	15.28	0.00	158.77	1740.99
15	16	16.45	0.00	201.08	1525.45
16	16	16.45	-0.68	201.06	1525.45
16	17	17.63	-0.74	240.62	1259.89
17	17	17.63	-0.74	240.62	1259.89
17	18	18.80	-0.17	228.24	971.11
18	18	18.80	-0.62	228.18	971.11
18	19	19.98	-0.62	256.80	680.13
19	19	19.98	-0.62	256.80	680.13
19	20	21.15	-1.56	215.52	410.63
20	20	21.15	0.00	215.72	410.63
20	21	22.33	0.00	204.27	169.06
21	21	22.33	0.00	204.27	169.06
21	22	22.50	0.00	196.83	134.31
22	22	22.50	0.00	196.83	134.31
22	23	23.50	0.00	176.99	-67.04
23	1023	23.50	0.00	-189.25	-67.04
23	24	24.50	0.00	-220.81	151.30
24	24	24.50	0.00	-220.81	151.30
24	25	24.95	0.00	-223.40	248.31
25	25	24.95	0.00	-223.40	248.31
25	26	26.40	0.00	-225.20	570.81
26	26	26.40	-1.32	-225.05	570.81

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.GRAD.MZ+

Rotura.Dominante GRAD. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.07	-251.24	931.55
27	27	27.85	-0.07	-251.24	931.55
27	28	29.30	-0.07	-312.39	1347.20
28	28	29.30	-0.50	-312.37	1347.20
28	29	30.75	-0.45	-262.63	1770.03
29	29	30.75	-0.45	-262.63	1770.03
29	30	32.20	-0.35	-209.76	2118.25
30	30	32.20	0.00	-209.77	2118.25
30	31	33.65	0.00	-158.16	2388.68
31	31	33.65	0.00	-158.16	2388.68
31	32	35.10	0.00	-112.61	2584.88
32	32	35.10	0.00	-112.61	2584.88
32	33	36.55	0.00	-52.63	2705.34
33	33	36.55	0.00	-52.63	2705.34
33	34	38.00	0.00	-7.09	2747.20
34	34	38.00	0.00	-7.09	2747.20
34	35	39.45	0.00	44.52	2717.13
35	35	39.45	0.00	44.52	2717.13
35	36	40.90	0.00	104.48	2608.41
36	36	40.90	0.00	104.48	2608.41
36	37	42.35	0.00	150.03	2424.03
37	37	42.35	0.00	150.03	2424.03
37	38	43.80	0.00	201.64	2165.38
38	38	43.80	-0.29	201.63	2165.38
38	39	45.25	-0.40	254.51	1828.90
39	39	45.25	-0.40	254.51	1828.90
39	40	46.70	-0.47	304.29	1417.55
40	40	46.70	0.07	304.32	1417.55
40	41	48.15	0.07	267.43	991.56
41	41	48.15	0.07	267.43	991.56
41	42	49.60	-1.20	243.63	618.51
42	42	49.60	0.00	243.75	618.51
42	43	51.05	0.00	230.80	281.49
43	43	51.05	0.00	230.80	281.49
43	44	51.50	0.00	228.28	180.19
44	44	51.50	0.00	228.28	180.19
44	45	52.50	0.00	196.76	-46.23
45	1045	52.50	0.00	-184.12	-46.23
45	46	53.50	0.00	-215.67	167.36
46	46	53.50	0.00	-215.67	167.36
46	47	53.95	0.00	-218.24	262.76
47	47	53.95	0.00	-218.24	262.76
47	48	55.40	0.00	-234.67	581.82
48	48	55.40	-1.23	-234.54	581.82
48	49	56.85	0.02	-253.47	945.85
49	49	56.85	0.02	-253.47	945.85
49	50	58.30	0.02	-309.03	1360.29
50	50	58.30	-0.50	-309.02	1360.29
50	51	59.75	-0.44	-259.17	1778.00
51	51	59.75	-0.44	-259.17	1778.00
51	52	61.20	-0.32	-206.30	2121.33

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.GRAD.MZ+

Rotura.Dominante GRAD. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-206.31	2121.33
52	53	62.65	0.00	-154.70	2386.71
53	53	62.65	0.00	-154.70	2386.71
53	54	64.10	0.00	-109.15	2577.90
54	54	64.10	0.00	-109.15	2577.90
54	55	65.55	0.00	-49.19	2693.40
55	55	65.55	0.00	-49.19	2693.40
55	56	67.00	0.00	-3.63	2730.24
56	56	67.00	0.00	-3.63	2730.24
56	57	68.45	0.00	47.96	2695.23
57	57	68.45	0.00	47.96	2695.23
57	58	69.90	0.00	107.90	2581.48
58	58	69.90	0.00	107.90	2581.48
58	59	71.35	0.00	153.47	2392.14
59	59	71.35	0.00	153.47	2392.14
59	60	72.80	0.00	205.07	2128.51
60	60	72.80	-0.31	205.05	2128.51
60	61	74.25	-0.44	257.94	1786.97
61	61	74.25	-0.44	257.94	1786.97
61	62	75.70	-0.47	307.61	1372.60
62	62	75.70	-0.02	307.62	1372.60
62	63	77.15	-0.02	267.71	962.98
63	63	77.15	-0.02	267.71	962.98
63	64	78.60	-1.29	238.99	583.24
64	64	78.60	0.00	239.12	583.24
64	65	80.05	0.00	226.31	248.61
65	65	80.05	0.00	226.31	248.61
65	66	80.50	0.00	223.77	148.78
66	66	80.50	0.00	223.77	148.78
66	67	81.50	0.00	192.27	-73.55
67	1067	81.50	0.00	-204.56	-73.55
67	68	82.50	0.00	-241.65	162.37
68	68	82.50	0.00	-241.65	162.37
68	69	83.08	0.00	-244.69	298.42
69	69	83.08	0.00	-244.69	298.42
69	70	84.65	0.00	-259.04	685.31
70	70	84.65	-1.26	-258.91	685.31
70	71	86.23	-0.01	-287.31	1119.96
71	71	86.23	-0.01	-287.31	1119.96
71	72	87.80	-0.01	-341.51	1644.76
72	72	87.80	-0.54	-341.50	1644.76
72	73	89.38	-0.48	-284.46	2130.93
73	73	89.38	-0.48	-284.46	2130.93
73	74	90.95	-0.29	-220.38	2530.60
74	74	90.95	0.00	-220.42	2530.60
74	75	92.53	0.00	-163.33	2839.09
75	75	92.53	0.00	-163.33	2839.09
75	76	94.10	0.00	-114.11	3056.90
76	76	94.10	0.00	-114.11	3056.90
76	77	95.68	0.00	-57.19	3186.58
77	77	95.68	0.00	-57.19	3186.58

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.GRAD.MZ+

Rotura.Dominante GRAD. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	0.27	3224.06
78	78	97.25	0.00	0.27	3224.06
78	79	98.83	0.00	64.06	3175.73
79	79	98.83	0.00	64.06	3175.73
79	80	100.40	0.00	120.98	3035.16
80	80	100.40	0.00	120.98	3035.16
80	81	101.98	0.00	170.20	2806.52
81	81	101.98	0.00	170.20	2806.52
81	82	103.55	0.00	227.29	2487.17
82	82	103.55	-0.34	227.26	2487.17
82	83	105.13	-0.53	291.33	2076.61
83	83	105.13	-0.53	291.33	2076.61
83	84	106.70	-0.55	345.15	1581.35
84	84	106.70	0.01	345.17	1581.35
84	85	108.28	0.01	305.44	1062.00
85	85	108.28	0.01	305.44	1062.00
85	86	109.85	-1.26	266.55	599.29
86	86	109.85	0.00	266.66	599.29
86	87	111.43	0.00	252.63	195.21
87	87	111.43	0.00	252.63	195.21
87	88	112.00	0.00	250.07	53.95
88	88	112.00	0.00	250.07	53.95
88	89	113.00	0.00	213.03	-190.91
89	1089	113.00	0.00	-219.95	-190.91
89	90	114.00	0.00	-256.97	60.95
90	90	114.00	0.00	-256.97	60.95
90	91	114.58	0.00	-257.36	206.13
91	91	114.58	0.00	-257.36	206.13
91	92	116.15	0.00	-271.24	618.10
92	92	116.15	-1.22	-271.13	618.10
92	93	117.73	0.04	-309.47	1085.92
93	93	117.73	0.04	-309.47	1085.92
93	94	119.30	0.04	-341.54	1606.24
94	94	119.30	-0.52	-341.51	1606.24
94	95	120.88	-0.50	-287.71	2095.83
95	95	120.88	-0.50	-287.71	2095.83
95	96	122.45	-0.31	-223.63	2500.71
96	96	122.45	0.00	-223.66	2500.71
96	97	124.03	0.00	-166.57	2814.35
97	97	124.03	0.00	-166.57	2814.35
97	98	125.60	0.00	-117.35	3037.28
98	98	125.60	0.00	-117.35	3037.28
98	99	127.18	0.00	-60.44	3172.17
99	99	127.18	0.00	-60.44	3172.17
99	100	128.75	0.00	-2.99	3214.85
100	100	128.75	0.00	-2.99	3214.85
100	101	130.33	0.00	60.81	3171.63
101	101	130.33	0.00	60.81	3171.63
101	102	131.90	0.00	117.75	3036.20
102	102	131.90	0.00	117.75	3036.20
102	103	133.48	0.00	166.94	2812.73

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.MZ+

Rotura.Dominante GRAD. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	166.94	2812.73
103	104	135.05	0.00	224.05	2498.52
104	104	135.05	-0.32	224.03	2498.52
104	105	136.63	-0.47	288.09	2093.18
105	105	136.63	-0.47	288.09	2093.18
105	106	138.20	-0.60	345.13	1601.27
106	106	138.20	-0.04	345.14	1601.27
106	107	139.78	-0.04	281.24	1080.23
107	107	139.78	-0.04	281.24	1080.23
107	108	141.35	-1.31	244.63	653.60
108	108	141.35	0.00	244.75	653.60
108	109	142.93	0.00	242.76	272.22
109	109	142.93	0.00	242.76	272.22
109	110	143.50	0.00	225.43	136.84
110	110	143.50	0.00	225.43	136.84
110	111	144.50	0.00	205.20	-99.33
111	1111	144.50	0.00	-178.38	-99.33
111	112	145.50	0.00	-198.20	103.58
112	112	145.50	0.00	-198.20	103.58
112	113	145.68	0.00	-205.64	138.79
113	113	145.68	0.00	-205.64	138.79
113	114	146.85	0.00	-216.95	384.95
114	114	146.85	-1.55	-216.75	384.95
114	115	148.03	-0.62	-265.38	664.66
115	115	148.03	-0.62	-265.38	664.66
115	116	149.20	-0.62	-228.81	958.81
116	116	149.20	-0.18	-228.89	958.81
116	117	150.38	-0.78	-242.31	1230.09
117	117	150.38	-0.78	-242.31	1230.09
117	118	151.55	-0.72	-202.82	1496.26
118	118	151.55	0.00	-202.85	1496.26
118	119	152.73	0.00	-160.55	1713.91
119	119	152.73	0.00	-160.55	1713.91
119	120	153.90	0.00	-124.71	1880.43
120	120	153.90	0.00	-124.71	1880.43
120	121	155.08	0.00	-76.26	1998.88
121	121	155.08	0.00	-76.26	1998.88
121	122	156.25	0.00	-39.91	2067.19
122	122	156.25	0.00	-39.91	2067.19
122	123	157.43	0.00	9.42	2087.31
123	123	157.43	0.00	9.42	2087.31
123	124	158.60	0.00	44.38	2055.06
124	124	158.60	0.00	44.38	2055.06
124	125	159.78	0.00	86.87	1973.56
125	125	159.78	0.00	86.87	1973.56
125	126	160.95	0.00	129.18	1843.20
126	126	160.95	0.00	129.18	1843.20
126	127	162.13	0.00	179.06	1662.04
127	127	162.13	0.00	179.06	1662.04
127	128	163.30	0.00	221.70	1429.73
128	128	163.30	0.00	221.70	1429.73

CÁLCULO TENSIONAL

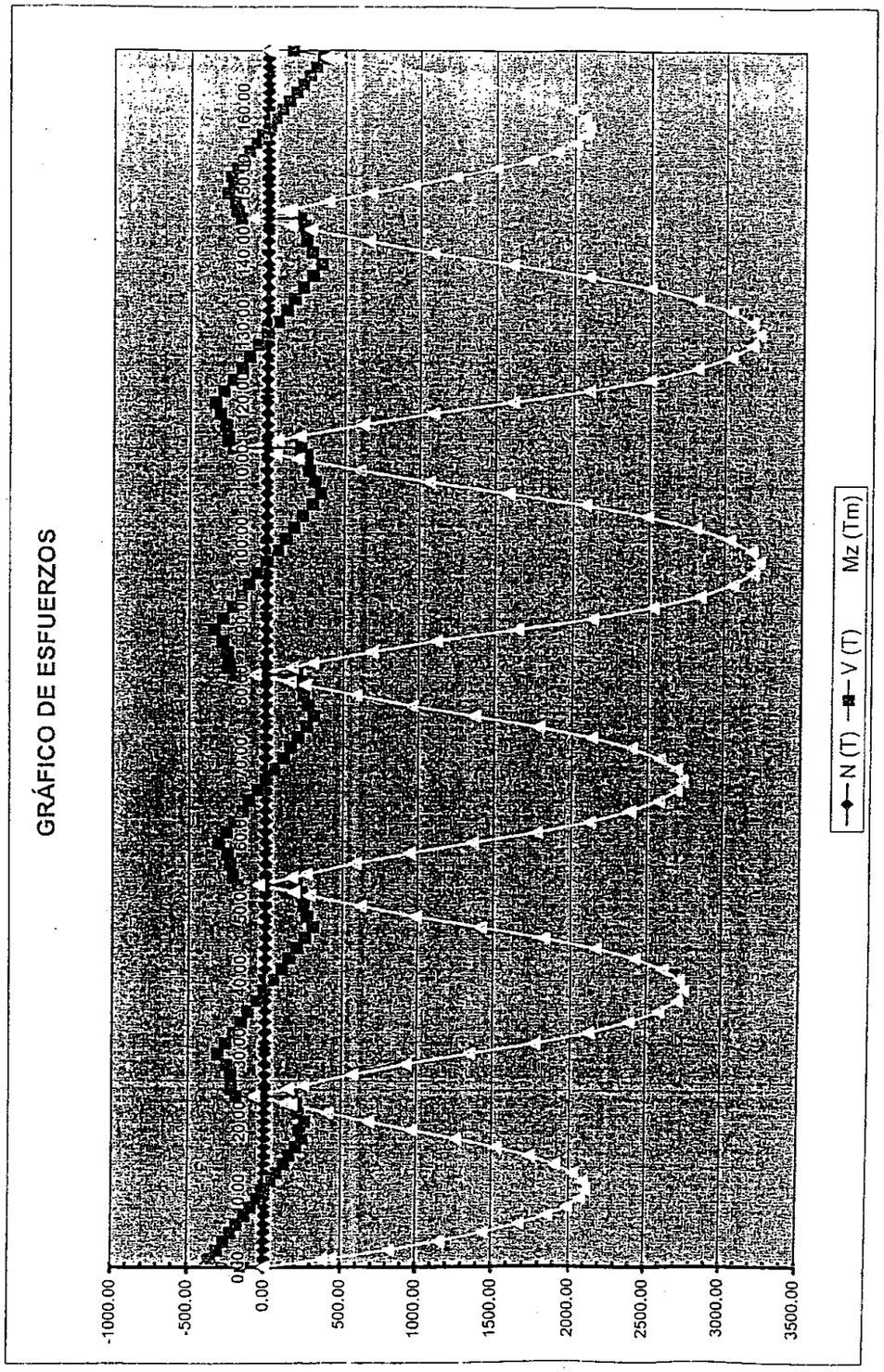
Hipótesis de cálculo:
Rotura.T0.GRAD.MZ+

Rotura.Dominante GRAD. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	264.20	1148.51
129	129	164.48	0.00	264.20	1148.51
129	130	165.65	0.00	306.52	819.32
130	130	165.65	0.00	306.52	819.32
130	131	166.83	0.00	348.89	438.08
131	131	166.83	0.00	348.89	438.08
131	132	167.00	0.00	355.28	376.86
132	132	167.00	0.00	355.28	376.86
132	133	168.00	0.00	152.12	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.GRAD.MZ-

Rotura.Dominante GRAD Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-153.47	0.00
1	2	1.00	0.00	-108.40	118.95
2	2	1.00	0.00	-108.40	118.95
2	3	1.18	0.00	-105.91	137.70
3	3	1.18	0.00	-105.91	137.70
3	4	2.35	0.00	-89.05	252.23
4	4	2.35	0.00	-89.05	252.23
4	5	3.53	0.00	-72.18	346.95
5	5	3.53	0.00	-72.18	346.95
5	6	4.70	0.00	-55.33	421.86
6	6	4.70	0.00	-55.33	421.86
6	7	5.88	0.00	-38.47	476.98
7	7	5.88	0.00	-38.47	476.98
7	8	7.05	0.00	-21.62	512.31
8	8	7.05	0.00	-21.62	512.31
8	9	8.23	0.00	-4.77	527.81
9	9	8.23	0.00	-4.77	527.81
9	10	9.40	0.00	12.09	523.53
10	10	9.40	0.00	12.09	523.53
10	11	10.58	0.00	28.93	499.42
11	11	10.58	0.00	28.93	499.42
11	12	11.75	0.00	45.81	455.50
12	12	11.75	0.00	45.81	455.50
12	13	12.93	0.00	62.65	391.80
13	13	12.93	0.00	62.65	391.80
13	14	14.10	0.00	79.51	308.27
14	14	14.10	0.00	79.51	308.27
14	15	15.28	0.00	96.36	204.95
15	15	15.28	0.00	96.36	204.95
15	16	16.45	0.00	113.22	81.81
16	16	16.45	-0.07	113.21	81.81
16	17	17.63	-0.01	133.01	-61.53
17	17	17.63	-0.01	133.01	-61.53
17	18	18.80	-0.55	204.89	-252.32
18	18	18.80	-0.76	204.83	-252.32
18	19	19.98	-0.76	242.97	-509.93
19	19	19.98	-0.76	242.97	-509.93
19	20	21.15	-2.03	318.84	-844.57
20	20	21.15	0.00	319.10	-844.57
20	21	22.33	0.00	405.29	-1271.97
21	21	22.33	0.00	405.29	-1271.97
21	22	22.50	0.00	421.26	-1344.62
22	22	22.50	0.00	421.26	-1344.62
22	23	23.50	0.00	475.44	-1792.73
23	1023	23.50	0.00	-516.72	-1792.73
23	24	24.50	0.00	-454.93	-1304.40
24	24	24.50	0.00	-454.93	-1304.40
24	25	24.95	0.00	-429.88	-1102.39
25	25	24.95	0.00	-429.88	-1102.39
25	26	26.40	0.00	-336.00	-542.63
26	26	26.40	-1.03	-335.88	-542.63

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.MZ-

Rotura.Dominante GRAD Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.10	-257.94	-114.95
27	27	27.85	-0.10	-257.94	-114.95
27	28	29.30	-0.10	-124.42	159.69
28	28	29.30	0.66	-124.42	159.69
28	29	30.75	0.55	-100.71	321.81
29	29	30.75	0.55	-100.71	321.81
29	30	32.20	0.45	-79.91	452.76
30	30	32.20	0.00	-79.92	452.76
30	31	33.65	0.00	-59.11	553.53
31	31	33.65	0.00	-59.11	553.53
31	32	35.10	0.00	-38.32	624.16
32	32	35.10	0.00	-38.32	624.16
32	33	36.55	0.00	-17.50	664.59
33	33	36:55	0.00	-17.50	664.59
33	34	38.00	0.00	8.61	668.38
34	34	38.00	0.00	8.61	668.38
34	35	39.45	0.00	29.42	640.80
35	35	39.45	0.00	29.42	640.80
35	36	40.90	0.00	50.23	583.07
36	36	40.90	0.00	50.23	583.07
36	37	42.35	0.00	71.01	495.18
37	37	42.35	0.00	71.01	495.18
37	38	43.80	0.00	91.82	377.12
38	38	43.80	0.33	91.81	377.12
38	39	45.25	0.43	112.61	228.92
39	39	45.25	0.43	112.61	228.92
39	40	46.70	0.53	136.28	49.86
40	40	46.70	0.10	136.31	49.86
40	41	48.15	0.10	245.58	-219.94
41	41	48.15	0.10	245.58	-219.94
41	42	49.60	-0.84	323.82	-636.22
42	42	49.60	0.00	323.90	-636.22
42	43	51.05	0.00	425.31	-1178.86
43	43	51.05	0.00	425.31	-1178.86
43	44	51.50	0.00	449.70	-1377.73
44	44	51.50	0.00	449.70	-1377.73
44	45	52.50	0.00	512.91	-1863.11
45	1045	52.50	0.00	-515.59	-1863.11
45	46	53.50	0.00	-452.22	-1374.28
46	46	53.50	0.00	-452.22	-1374.28
46	47	53.95	0.00	-427.78	-1174.01
47	47	53.95	0.00	-427.78	-1174.01
47	48	55.40	0.00	-325.84	-625.47
48	48	55.40	-0.91	-325.74	-625.47
48	49	56.85	0.02	-252.47	-204.96
49	49	56.85	0.02	-252.47	-204.96
49	50	58.30	0.02	-124.48	66.17
50	50	58.30	0.62	-124.48	66.17
50	51	59.75	0.53	-100.89	228.63
51	51	59.75	0.53	-100.89	228.63
51	52	61.20	0.44	-80.08	359.84

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.MZ-

Rotura.Dominante GRAD Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-80.09	359.84
52	53	62.65	0.00	-59.28	460.89
53	53	62.65	0.00	-59.28	460.89
53	54	64.10	0.00	-38.48	531.77
54	54	64.10	0.00	-38.48	531.77
54	55	65.55	0.00	-17.68	572.51
55	55	65.55	0.00	-17.68	572.51
55	56	67.00	0.00	9.66	577.23
56	56	67.00	0.00	9.66	577.23
56	57	68.45	0.00	30.44	548.14
57	57	68.45	0.00	30.44	548.14
57	58	69.90	0.00	51.24	488.91
58	58	69.90	0.00	51.24	488.91
58	59	71.35	0.00	72.05	399.52
59	59	71.35	0.00	72.05	399.52
59	60	72.80	0.00	92.85	279.94
60	60	72.80	0.35	92.84	279.94
60	61	74.25	0.44	113.65	130.24
61	61	74.25	0.44	113.65	130.24
61	62	75.70	0.54	137.41	-52.27
62	62	75.70	-0.02	137.42	-52.27
62	63	77.15	-0.02	249.74	-344.91
63	63	77.15	-0.02	249.74	-344.91
63	64	78.60	-0.96	332.88	-765.18
64	64	78.60	0.00	332.98	-765.18
64	65	80.05	0.00	416.26	-1311.14
65	65	80.05	0.00	416.26	-1311.14
65	66	80.50	0.00	458.58	-1509.48
66	66	80.50	0.00	458.58	-1509.48
66	67	81.50	0.00	521.50	-2000.65
67	1067	81.50	0.00	-552.03	-2000.65
67	68	82.50	0.00	-489.60	-1474.36
68	68	82.50	0.00	-489.60	-1474.36
68	69	83.08	0.00	-457.26	-1198.26
69	69	83.08	0.00	-457.26	-1198.26
69	70	84.65	0.00	-347.54	-562.97
70	70	84.65	-0.95	-347.44	-562.97
70	71	86.23	-0.02	-267.94	-76.57
71	71	86.23	-0.02	-267.94	-76.57
71	72	87.80	-0.02	-134.07	205.79
72	72	87.80	0.65	-134.07	205.79
72	73	89.38	0.53	-111.46	399.13
73	73	89.38	0.53	-111.46	399.13
73	74	90.95	0.45	-88.87	556.89
74	74	90.95	0.00	-88.89	556.89
74	75	92.53	0.00	-66.28	679.09
75	75	92.53	0.00	-66.28	679.09
75	76	94.10	0.00	-43.69	765.70
76	76	94.10	0.00	-43.69	765.70
76	77	95.68	0.00	-21.11	816.70
77	77	95.68	0.00	-21.11	816.70

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.GRAD.MZ-

Rotura.Dominante GRAD Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	7.18	827.16
78	78	97.25	0.00	7.18	827.16
78	79	98.83	0.00	29.77	798.07
79	79	98.83	0.00	29.77	798.07
79	80	100.40	0.00	52.35	733.37
80	80	100.40	0.00	52.35	733.37
80	81	101.98	0.00	74.95	633.09
81	81	101.98	0.00	74.95	633.09
81	82	103.55	0.00	97.55	497.23
82	82	103.55	0.36	97.53	497.23
82	83	105.13	0.45	120.12	325.80
83	83	105.13	0.45	120.12	325.80
83	84	106.70	0.55	145.97	117.01
84	84	106.70	0.02	145.99	117.01
84	85	108.28	0.02	265.40	-195.30
85	85	108.28	0.02	265.40	-195.30
85	86	109.85	-0.92	355.84	-685.35
86	86	109.85	0.00	355.92	-685.35
86	87	111.43	0.00	446.46	-1322.09
87	87	111.43	0.00	446.46	-1322.09
87	88	112.00	0.00	493.43	-1597.71
88	88	112.00	0.00	493.43	-1597.71
88	89	113.00	0.00	559.46	-2129.97
89	1089	113.00	0.00	-556.39	-2129.97
89	90	114.00	0.00	-490.40	-1600.98
90	90	114.00	0.00	-490.40	-1600.98
90	91	114.58	0.00	-443.52	-1327.73
91	91	114.58	0.00	-443.52	-1327.73
91	92	116.15	0.00	-353.13	-696.03
92	92	116.15	-0.85	-353.05	-696.03
92	93	117.73	0.08	-263.12	-210.81
93	93	117.73	0.08	-263.12	-210.81
93	94	119.30	0.08	-151.38	103.24
94	94	119.30	0.50	-151.36	103.24
94	95	120.88	0.39	-125.51	320.49
95	95	120.88	0.39	-125.51	320.49
95	96	122.45	0.30	-102.93	500.46
96	96	122.45	0.00	-102.95	500.46
96	97	124.03	0.00	-80.34	644.82
97	97	124.03	0.00	-80.34	644.82
97	98	125.60	0.00	-57.75	753.56
98	98	125.60	0.00	-57.75	753.56
98	99	127.18	0.00	-35.16	826.76
99	99	127.18	0.00	-35.16	826.76
99	100	128.75	0.00	-12.57	864.37
100	100	128.75	0.00	-12.57	864.37
100	101	130.33	0.00	10.02	866.40
101	101	130.33	0.00	10.02	866.40
101	102	131.90	0.00	37.76	827.60
102	102	131.90	0.00	37.76	827.60
102	103	133.48	0.00	60.35	750.34

Rotura.xls Programa DINTEL IDEAM S.A. 10/09/01
Rotura.T0.GRAD.MZ-

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.GRAD.MZ-

Rotura.Dominante GRAD Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	60.35	750.34
103	104	135.05	0.00	82.96	637.50
104	104	135.05	0.50	82.94	637.50
104	105	136.63	0.60	105.53	489.05
105	105	136.63	0.60	105.53	489.05
105	106	138.20	0.70	128.14	305.04
106	106	138.20	-0.08	128.13	305.04
106	107	139.78	-0.08	271.71	22.57
107	107	139.78	-0.08	271.71	22.57
107	108	141.35	-1.02	356.59	-468.12
108	108	141.35	0.00	356.68	-468.12
108	109	142.93	0.00	457.85	-1113.22
109	109	142.93	0.00	457.85	-1113.22
109	110	143.50	0.00	503.11	-1388.80
110	110	143.50	0.00	503.11	-1388.80
110	111	144.50	0.00	551.39	-1915.39
111	1111	144.50	0.00	-481.07	-1915.39
111	112	145.50	0.00	-422.88	-1463.66
112	112	145.50	0.00	-422.88	-1463.66
112	113	145.68	0.00	-393.26	-1391.16
113	113	145.68	0.00	-393.26	-1391.16
113	114	146.85	0.00	-324.91	-967.12
114	114	146.85	-2.02	-324.65	-967.12
114	115	148.03	-0.77	-241.33	-633.98
115	115	148.03	-0.77	-241.33	-633.98
115	116	149.20	-0.77	-211.12	-371.32
116	116	149.20	-0.61	-211.22	-371.32
116	117	150.38	-0.07	-138.30	-154.89
117	117	150.38	-0.07	-138.30	-154.89
117	118	151.55	-0.14	-118.42	-3.95
118	118	151.55	0.00	-118.43	-3.95
118	119	152.73	0.00	-101.58	125.31
119	119	152.73	0.00	-101.58	125.31
119	120	153.90	0.00	-84.72	234.75
120	120	153.90	0.00	-84.72	234.75
120	121	155.08	0.00	-67.86	324.41
121	121	155.08	0.00	-67.86	324.41
121	122	156.25	0.00	-51.01	394.23
122	122	156.25	0.00	-51.01	394.23
122	123	157.43	0.00	-34.15	444.28
123	123	157.43	0.00	-34.15	444.28
123	124	158.60	0.00	-17.30	474.50
124	124	158.60	0.00	-17.30	474.50
124	125	159.78	0.00	-0.45	484.93
125	125	159.78	0.00	-0.45	484.93
125	126	160.95	0.00	16.41	475.52
126	126	160.95	0.00	16.41	475.52
126	127	162.13	0.00	33.26	446.36
127	127	162.13	0.00	33.26	446.36
127	128	163.30	0.00	50.12	397.37
128	128	163.30	0.00	50.12	397.37

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.GRAD.MZ-

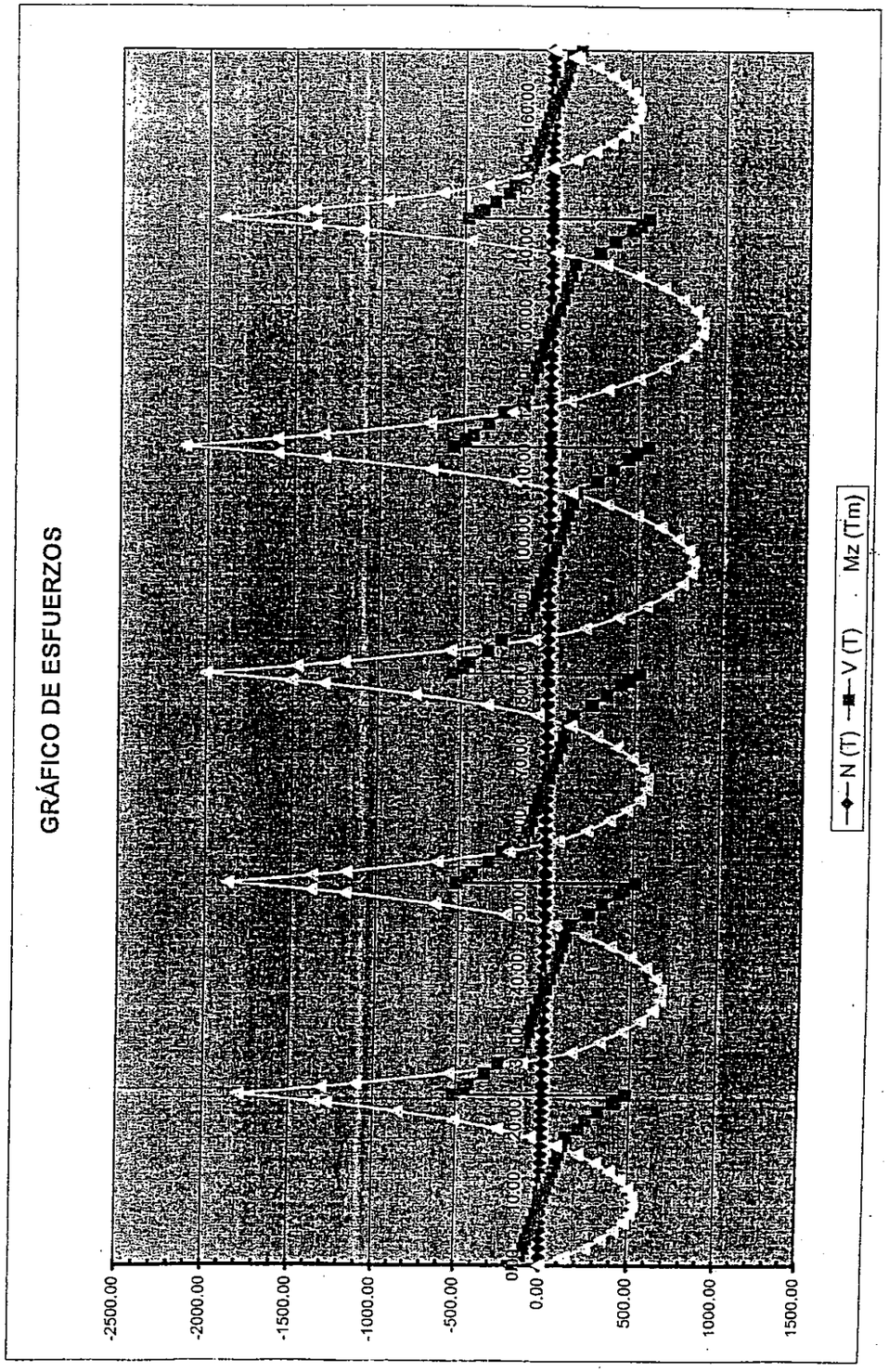
Rotura.Dominante GRAD Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	66.97	328.58
129	129	164.48	0.00	66.97	328.58
129	130	165.65	0.00	83.84	239.96
130	130	165.65	0.00	83.84	239.96
130	131	166.83	0.00	100.70	131.58
131	131	166.83	0.00	100.70	131.58
131	132	167.00	0.00	103.20	113.71
132	132	167.00	0.00	103.20	113.71
132	133	168.00	0.00	152.12	0.00

10/09/01
Programa DINTEL IDEAM S.A.
Rotura.T0.GRAD.MZ-
Rotura.xls



CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.MZ+

Rotura.Dominante IPF75B. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-153.47	0.00
1	2	1.00	0.00	-441.36	466.80
2	2	1.00	0.00	-441.36	466.80
2	3	1.18	0.00	-433.37	542.58
3	3	1.18	0.00	-433.37	542.58
3	4	2.35	0.00	-380.70	1014.50
4	4	2.35	0.00	-380.70	1014.50
4	5	3.53	0.00	-328.13	1420.71
5	5	3.53	0.00	-328.13	1420.71
5	6	4.70	0.00	-275.25	1768.15
6	6	4.70	0.00	-275.25	1768.15
6	7	5.88	0.00	-222.09	2055.06
7	7	5.88	0.00	-222.09	2055.06
7	8	7.05	0.00	-156.92	2277.92
8	8	7.05	0.00	-156.92	2277.92
8	9	8.23	0.00	-104.38	2437.10
9	9	8.23	0.00	-104.38	2437.10
9	10	9.40	0.00	-51.48	2535.99
10	10	9.40	0.00	-51.48	2535.99
10	11	10.58	0.00	-11.18	2573.86
11	11	10.58	0.00	-11.18	2573.86
11	12	11.75	0.00	53.12	2545.52
12	12	11.75	0.00	53.12	2545.52
12	13	12.93	0.00	95.75	2457.93
13	13	12.93	0.00	95.75	2457.93
13	14	14.10	0.00	158.56	2307.91
14	14	14.10	0.00	158.56	2307.91
14	15	15.28	0.00	200.35	2098.80
15	15	15.28	0.00	200.35	2098.80
15	16	16.45	0.00	252.91	1825.64
16	16	16.45	-1.29	252.90	1825.64
16	17	17.63	-1.48	302.83	1489.91
17	17	17.63	-1.48	302.83	1489.91
17	18	18.80	-1.03	300.95	1118.16
18	18	18.80	-0.62	300.90	1118.16
18	19	19.98	-0.62	335.34	734.35
19	19	19.98	-0.62	335.34	734.35
19	20	21.15	-1.56	254.13	401.42
20	20	21.15	0.00	254.33	401.42
20	21	22.33	0.00	222.83	129.73
21	21	22.33	0.00	222.83	129.73
21	22	22.50	0.00	208.58	92.56
22	22	22.50	0.00	208.58	92.56
22	23	23.50	0.00	179.07	-115.81
23	1023	23.50	0.00	-175.35	-115.81
23	24	24.50	0.00	-220.48	92.81
24	24	24.50	0.00	-220.48	92.81
24	25	24.95	0.00	-229.54	189.18
25	25	24.95	0.00	-229.54	189.18
25	26	26.40	0.00	-246.88	529.45
26	26	26.40	-1.32	-246.73	529.45

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.MZ+

Rotura.Dominante IPF75B. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.07	-306.71	956.35
27	27	27.85	-0.07	-306.71	956.35
27	28	29.30	-0.07	-392.07	1473.35
28	28	29.30	-1.28	-392.05	1473.35
28	29	30.75	-1.09	-329.36	2005.55
29	29	30.75	-1.09	-329.36	2005.55
29	30	32.20	-0.87	-263.38	2444.88
30	30	32.20	0.00	-263.39	2444.88
30	31	33.65	0.00	-199.52	2786.62
31	31	33.65	0.00	-199.52	2786.62
31	32	35.10	0.00	-145.74	3036.77
32	32	35.10	0.00	-145.74	3036.77
32	33	36.55	0.00	-67.95	3192.80
33	33	36.55	0.00	-67.95	3192.80
33	34	38.00	0.00	-14.17	3249.92
34	34	38.00	0.00	-14.17	3249.92
34	35	39.45	0.00	49.70	3219.29
35	35	39.45	0.00	49.70	3219.29
35	36	40.90	0.00	127.48	3089.66
36	36	40.90	0.00	127.48	3089.66
36	37	42.35	0.00	181.26	2866.07
37	37	42.35	0.00	181.26	2866.07
37	38	43.80	0.00	245.13	2550.79
38	38	43.80	-0.70	245.11	2550.79
38	39	45.25	-0.93	311.11	2137.88
39	39	45.25	-0.93	311.11	2137.88
39	40	46.70	-1.14	373.83	1631.86
40	40	46.70	0.07	373.86	1631.86
40	41	48.15	0.07	329.00	1103.98
41	41	48.15	0.07	329.00	1103.98
41	42	49.60	-1.20	272.98	663.36
42	42	49.60	0.00	273.10	663.36
42	43	51.05	0.00	237.28	304.73
43	43	51.05	0.00	237.28	304.73
43	44	51.50	0.00	228.31	203.31
44	44	51.50	0.00	228.31	203.31
44	45	52.50	0.00	183.26	-14.17
45	1045	52.50	0.00	-165.12	-14.17
45	46	53.50	0.00	-210.24	184.89
46	46	53.50	0.00	-210.24	184.89
46	47	53.95	0.00	-219.27	277.79
47	47	53.95	0.00	-219.27	277.79
47	48	55.40	0.00	-260.96	610.91
48	48	55.40	-1.23	-260.83	610.91
48	49	56.85	0.02	-308.73	1040.84
49	49	56.85	0.02	-308.73	1040.84
49	50	58.30	0.02	-385.41	1557.73
50	50	58.30	-1.23	-385.39	1557.73
50	51	59.75	-1.05	-322.59	2080.00
51	51	59.75	-1.05	-322.59	2080.00
51	52	61.20	-0.80	-256.62	2509.71

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.IPF75B.MZ+

Rotura.Dominante IPF75B. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61,20	0.00	-256.63	2509.71
52	53	62.65	0.00	-192.76	2841.60
53	53	62.65	0.00	-192.76	2841.60
53	54	64.10	0.00	-138.98	3081.96
54	54	64.10	0.00	-138.98	3081.96
54	55	65.55	0.00	-61.20	3228.26
55	55	65.55	0.00	-61.20	3228.26
55	56	67.00	0.00	-7.41	3275.56
56	56	67.00	0.00	-7.41	3275.56
56	57	68.45	0.00	56.43	3235.25
57	57	68.45	0.00	56.43	3235.25
57	58	69.90	0.00	134.19	3095.81
58	58	69.90	0.00	134.19	3095.81
58	59	71.35	0.00	188.00	2862.47
59	59	71.35	0.00	188.00	2862.47
59	60	72.80	0.00	251.85	2537.43
60	60	72.80	-0.75	251.84	2537.43
60	61	74.25	-1.02	317.84	2114.67
61	61	74.25	-1.02	317.84	2114.67
61	62	75.70	-1.17	380.45	1600.87
62	62	75.70	-0.02	380.46	1600.87
62	63	77.15	-0.02	331.17	1082.49
63	63	77.15	-0.02	331.17	1082.49
63	64	78.60	-1.29	266.97	628.26
64	64	78.60	0.00	267.11	628.26
64	65	80.05	0.00	231.46	270.78
65	65	80.05	0.00	231.46	270.78
65	66	80.50	0.00	222.49	171.04
66	66	80.50	0.00	222.49	171.04
66	67	81.50	0.00	177.45	-41.29
67	1067	81.50	0.00	-188.38	-41.29
67	68	82.50	0.00	-240.86	182.28
68	68	82.50	0.00	-240.86	182.28
68	69	83.08	0.00	-252.01	317.72
69	69	83.08	0.00	-252.01	317.72
69	70	84.65	0.00	-291.47	729.26
70	70	84.65	-1.26	-291.34	729.26
70	71	86.23	-0.01	-356.44	1246.81
71	71	86.23	-0.01	-356.44	1246.81
71	72	87.80	-0.01	-427.57	1896.33
72	72	87.80	-1.29	-427.55	1896.33
72	73	89.38	-1.12	-356.55	2502.53
73	73	89.38	-1.12	-356.55	2502.53
73	74	90.95	-0.76	-273.80	3002.43
74	74	90.95	0.00	-273.85	3002.43
74	75	92.53	0.00	-202.75	3388.26
75	75	92.53	0.00	-202.75	3388.26
75	76	94.10	0.00	-144.78	3660.80
76	76	94.10	0.00	-144.78	3660.80
76	77	95.68	0.00	-73.95	3824.40
77	77	95.68	0.00	-73.95	3824.40

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.IPF75B.MZ+

Rotura.Dominante IPF75B. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	-2.25	3872.19
78	78	97.25	0.00	-2.25	3872.19
78	79	98.83	0.00	80.02	3814.82
79	79	98.83	0.00	80.02	3814.82
79	80	100.40	0.00	150.85	3641.62
80	80	100.40	0.00	150.85	3641.62
80	81	101.98	0.00	208.82	3359.51
81	81	101.98	0.00	208.82	3359.51
81	82	103.55	0.00	279.91	2964.11
82	82	103.55	-0.81	279.88	2964.11
82	83	105.13	-1.17	362.62	2454.57
83	83	105.13	-1.17	362.62	2454.57
83	84	106.70	-1.30	430.40	1840.57
84	84	106.70	0.01	430.42	1840.57
84	85	108.28	0.01	383.05	1190.03
85	85	108.28	0.01	383.05	1190.03
85	86	109.85	-1.26	300.47	631.38
86	86	109.85	0.00	300.59	631.38
86	87	111.43	0.00	261.70	196.09
87	87	111.43	0.00	261.70	196.09
87	88	112.00	0.00	251.35	54.06
88	88	112.00	0.00	251.35	54.06
88	89	113.00	0.00	198.96	-180.90
89	1089	113.00	0.00	-208.90	-180.90
89	90	114.00	0.00	-261.26	64.10
90	90	114.00	0.00	-261.26	64.10
90	91	114.58	0.00	-267.99	211.79
91	91	114.58	0.00	-267.99	211.79
91	92	116.15	0.00	-306.61	657.65
92	92	116.15	-1.22	-306.50	657.65
92	93	117.73	0.04	-388.15	1222.24
93	93	117.73	0.04	-388.15	1222.24
93	94	119.30	0.04	-422.64	1871.18
94	94	119.30	-1.23	-422.62	1871.18
94	95	120.88	-1.10	-354.86	2472.99
95	95	120.88	-1.10	-354.86	2472.99
95	96	122.45	-0.74	-272.10	2970.33
96	96	122.45	0.00	-272.13	2970.33
96	97	124.03	0.00	-201.06	3353.49
97	97	124.03	0.00	-201.06	3353.49
97	98	125.60	0.00	-143.07	3623.38
98	98	125.60	0.00	-143.07	3623.38
98	99	127.18	0.00	-72.26	3784.36
99	99	127.18	0.00	-72.26	3784.36
99	100	128.75	0.00	-0.56	3829.57
100	100	128.75	0.00	-0.56	3829.57
100	101	130.33	0.00	81.71	3769.50
101	101	130.33	0.00	81.71	3769.50
101	102	131.90	0.00	152.57	3593.63
102	102	131.90	0.00	152.57	3593.63
102	103	133.48	0.00	210.50	3308.92

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.IPF75B.MZ+

Rotura.Dominante IPF75B. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	210.50	3308.92
103	104	135.05	0.00	281.63	2910.83
104	104	135.05	-0.83	281.60	2910.83
104	105	136.63	-1.14	364.31	2398.78
105	105	136.63	-1.14	364.31	2398.78
105	106	138.20	-1.40	435.33	1780.30
106	106	138.20	-0.04	435.34	1780.30
106	107	139.78	-0.04	347.93	1137.32
107	107	139.78	-0.04	347.93	1137.32
107	108	141.35	-1.31	269.16	630.58
108	108	141.35	0.00	269.28	630.58
108	109	142.93	0.00	250.37	226.49
109	109	142.93	0.00	250.37	226.49
109	110	143.50	0.00	215.40	91.29
110	110	143.50	0.00	215.40	91.29
110	111	144.50	0.00	191.03	-134.32
111	1111	144.50	0.00	-179.87	-134.32
111	112	145.50	0.00	-209.35	75.14
112	112	145.50	0.00	-209.35	75.14
112	113	145.68	0.00	-223.60	112.83
113	113	145.68	0.00	-223.60	112.83
113	114	146.85	0.00	-254.87	390.41
114	114	146.85	-1.55	-254.67	390.41
114	115	148.03	-0.62	-348.15	738.57
115	115	148.03	-0.62	-348.15	738.57
115	116	149.20	-0.62	-300.45	1125.90
116	116	149.20	-1.03	-300.53	1125.90
116	117	150.38	-1.50	-303.47	1478.89
117	117	150.38	-1.50	-303.47	1478.89
117	118	151.55	-1.31	-253.58	1813.97
118	118	151.55	0.00	-253.62	1813.97
118	119	152.73	0.00	-201.05	2088.01
119	119	152.73	0.00	-201.05	2088.01
119	120	153.90	0.00	-159.27	2297.93
120	120	153.90	0.00	-159.27	2297.93
120	121	155.08	0.00	-96.47	2448.78
121	121	155.08	0.00	-96.47	2448.78
121	122	156.25	0.00	-53.82	2537.21
122	122	156.25	0.00	-53.82	2537.21
122	123	157.43	0.00	10.45	2566.37
123	123	157.43	0.00	10.45	2566.37
123	124	158.60	0.00	50.77	2529.33
124	124	158.60	0.00	50.77	2529.33
124	125	159.78	0.00	103.66	2431.28
125	125	159.78	0.00	103.66	2431.28
125	126	160.95	0.00	156.22	2272.93
126	126	160.95	0.00	156.22	2272.93
126	127	162.13	0.00	221.41	2050.95
127	127	162.13	0.00	221.41	2050.95
127	128	163.30	0.00	274.53	1764.82
128	128	163.30	0.00	274.53	1764.82

Rotura.xls Programa DINTEL IDEAM S.A. 10/09/01
Rotura.T0.IPF75B.MZ+

CÁLCULO TENSIONAL

Hipótesis de cálculo:

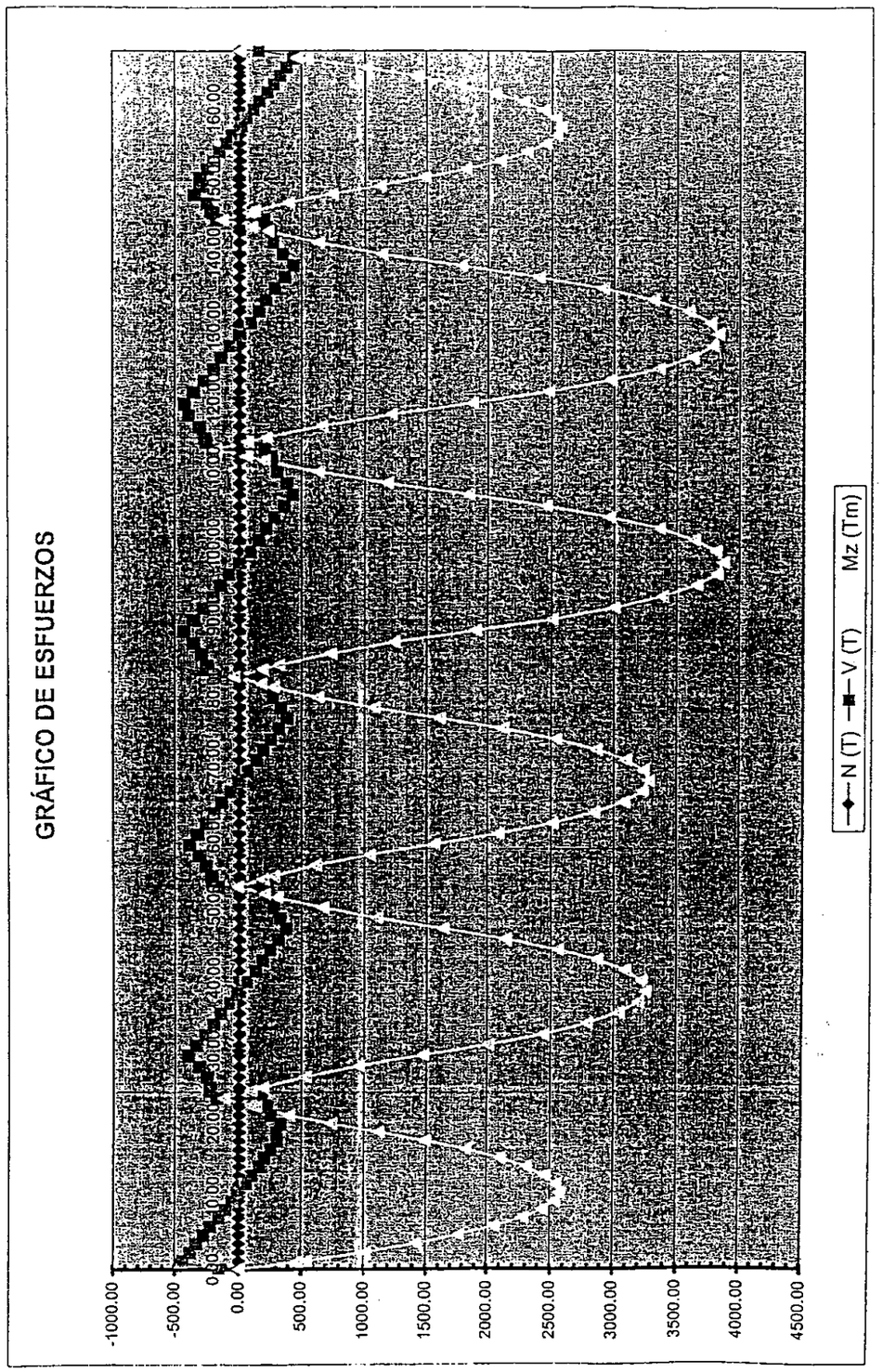
Rotura.T0.IPF75B.MZ+

Rotura.Dominante IPF75B. Mz+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	327.43	1418.24
129	129	164.48	0.00	327.43	1418.24
129	130	165.65	0.00	380.00	1012.82
130	130	165.65	0.00	380.00	1012.82
130	131	166.83	0.00	432.66	541.73
131	131	166.83	0.00	432.66	541.73
131	132	167.00	0.00	440.65	465.99
132	132	167.00	0.00	440.65	465.99
132	133	168.00	0.00	152.12	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.IPF75B.MZ-

Rotura.Dominante IPF75B Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-153.47	0.00
1	2	1.00	0.00	-92.77	103.32
2	2	1.00	0.00	-92.77	103.32
2	3	1.18	0.00	-90.27	119.33
3	3	1.18	0.00	-90.27	119.33
3	4	2.35	0.00	-73.41	215.49
4	4	2.35	0.00	-73.41	215.49
4	5	3.53	0.00	-56.54	291.83
5	5	3.53	0.00	-56.54	291.83
5	6	4.70	0.00	-39.69	348.36
6	6	4.70	0.00	-39.69	348.36
6	7	5.88	0.00	-22.84	385.11
7	7	5.88	0.00	-22.84	385.11
7	8	7.05	0.00	-5.98	402.07
8	8	7.05	0.00	-5.98	402.07
8	9	8.23	0.00	10.86	399.19
9	9	8.23	0.00	10.86	399.19
9	10	9.40	0.00	27.72	376.54
10	10	9.40	0.00	27.72	376.54
10	11	10.58	0.00	44.56	334.06
11	11	10.58	0.00	44.56	334.06
11	12	11.75	0.00	61.44	271.76
12	12	11.75	0.00	61.44	271.76
12	13	12.93	0.00	78.29	189.70
13	13	12.93	0.00	78.29	189.70
13	14	14.10	0.00	95.15	87.79
14	14	14.10	0.00	95.15	87.79
14	15	15.28	0.00	112.00	-33.91
15	15	15.28	0.00	112.00	-33.91
15	16	16.45	0.00	128.86	-175.41
16	16	16.45	-0.25	128.85	-175.41
16	17	17.63	-0.19	148.64	-337.13
17	17	17.63	-0.19	148.64	-337.13
17	18	18.80	-0.73	220.53	-546.31
18	18	18.80	-0.76	220.47	-546.31
18	19	19.98	-0.76	268.09	-824.16
19	19	19.98	-0.76	268.09	-824.16
19	20	21.15	-2.03	377.79	-1211.11
20	20	21.15	0.00	378.05	-1211.11
20	21	22.33	0.00	504.94	-1732.88
21	21	22.33	0.00	504.94	-1732.88
21	22	22.50	0.00	529.05	-1823.90
22	22	22.50	0.00	529.05	-1823.90
22	23	23.50	0.00	601.48	-2388.78
23	1023	23.50	0.00	-657.44	-2388.78
23	24	24.50	0.00	-572.34	-1769.72
24	24	24.50	0.00	-572.34	-1769.72
24	25	24.95	0.00	-537.02	-1515.22
25	25	24.95	0.00	-537.02	-1515.22
25	26	26.40	0.00	-402.22	-826.18
26	26	26.40	-1.03	-402.10	-826.18

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.IPF75B.MZ-

Rotura.Dominante IPF75B Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.10	-291.86	-327.83
27	27	27.85	-0.10	-291.86	-327.83
27	28	29.30	-0.10	-121.90	-30.81
28	28	29.30	0.68	-121.89	-30.81
28	29	30.75	0.57	-98.18	127.63
29	29	30.75	0.57	-98.18	127.63
29	30	32.20	0.48	-77.39	254.92
30	30	32.20	0.00	-77.40	254.92
30	31	33.65	0.00	-56.59	352.02
31	31	33.65	0.00	-56.59	352.02
31	32	35.10	0.00	-35.80	418.99
32	32	35.10	0.00	-35.80	418.99
32	33	36.55	0.00	-14.98	455.75
33	33	36.55	0.00	-14.98	455.75
33	34	38.00	0.00	14.68	451.52
34	34	38.00	0.00	14.68	451.52
34	35	39.45	0.00	35.49	415.14
35	35	39.45	0.00	35.49	415.14
35	36	40.90	0.00	56.30	348.61
36	36	40.90	0.00	56.30	348.61
36	37	42.35	0.00	77.08	251.91
37	37	42.35	0.00	77.08	251.91
37	38	43.80	0.00	97.89	125.05
38	38	43.80	0.28	97.88	125.05
38	39	45.25	0.37	118.68	-31.95
39	39	45.25	0.37	118.68	-31.95
39	40	46.70	0.47	142.35	-219.81
40	40	46.70	0.10	142.38	-219.81
40	41	48.15	0.10	271.89	-509.24
41	41	48.15	0.10	271.89	-509.24
41	42	49.60	-0.84	382.60	-989.50
42	42	49.60	0.00	382.68	-989.50
42	43	51.05	0.00	529.96	-1649.98
43	43	51.05	0.00	529.96	-1649.98
43	44	51.50	0.00	564.19	-1899.49
44	44	51.50	0.00	564.19	-1899.49
44	45	52.50	0.00	651.66	-2514.19
45	1045	52.50	0.00	-657.50	-2514.19
45	46	53.50	0.00	-569.78	-1892.35
46	46	53.50	0.00	-569.78	-1892.35
46	47	53.95	0.00	-535.47	-1639.88
47	47	53.95	0.00	-535.47	-1639.88
47	48	55.40	0.00	-387.26	-967.70
48	48	55.40	-0.91	-387.16	-967.70
48	49	56.85	0.02	-284.72	-478.44
49	49	56.85	0.02	-284.72	-478.44
49	50	58.30	0.02	-123.34	-188.83
50	50	58.30	0.62	-123.34	-188.83
50	51	59.75	0.53	-99.75	-28.01
51	51	59.75	0.53	-99.75	-28.01
51	52	61.20	0.44	-78.94	101.55

Rotura.xls Programa DINTEL IDEAM S.A. Rotura.T0.IPF75B.MZ- 10/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.IPF75B.MZ-

Rotura.Dominante IPF75B Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-78.95	101.55
52	53	62.65	0.00	-58.15	200.95
53	53	62.65	0.00	-58.15	200.95
53	54	64.10	0.00	-37.35	270.19
54	54	64.10	0.00	-37.35	270.19
54	55	65.55	0.00	-16.54	309.28
55	55	65.55	0.00	-16.54	309.28
55	56	67.00	0.00	15.15	308.45
56	56	67.00	0.00	15.15	308.45
56	57	68.45	0.00	35.94	271.39
57	57	68.45	0.00	35.94	271.39
57	58	69.90	0.00	56.74	204.19
58	58	69.90	0.00	56.74	204.19
58	59	71.35	0.00	77.54	106.83
59	59	71.35	0.00	77.54	106.83
59	60	72.80	0.00	98.34	-20.72
60	60	72.80	0.31	98.33	-20.72
60	61	74.25	0.39	119.14	-178.39
61	61	74.25	0.39	119.14	-178.39
61	62	75.70	0.50	142.91	-368.87
62	62	75.70	-0.02	142.92	-368.87
62	63	77.15	-0.02	276.87	-678.17
63	63	77.15	-0.02	276.87	-678.17
63	64	78.60	-0.96	395.76	-1162.23
64	64	78.60	0.00	395.86	-1162.23
64	65	80.05	0.00	512.92	-1825.03
65	65	80.05	0.00	512.92	-1825.03
65	66	80.50	0.00	577.04	-2072.78
66	66	80.50	0.00	577.04	-2072.78
66	67	81.50	0.00	664.02	-2695.19
67	1067	81.50	0.00	-701.31	-2695.19
67	68	82.50	0.00	-615.15	-2027.85
68	68	82.50	0.00	-615.15	-2027.85
68	69	83.08	0.00	-569.44	-1680.81
69	69	83.08	0.00	-569.44	-1680.81
69	70	84.65	0.00	-410.13	-906.71
70	70	84.65	-0.95	-410.03	-906.71
70	71	86.23	-0.02	-298.91	-345.49
71	71	86.23	-0.02	-298.91	-345.49
71	72	87.80	-0.02	-134.09	-44.32
72	72	87.80	0.65	-134.10	-44.32
72	73	89.38	0.53	-111.49	149.06
73	73	89.38	0.53	-111.49	149.06
73	74	90.95	0.45	-88.90	306.86
74	74	90.95	0.00	-88.92	306.86
74	75	92.53	0.00	-66.31	429.11
75	75	92.53	0.00	-66.31	429.11
75	76	94.10	0.00	-43.72	515.76
76	76	94.10	0.00	-43.72	515.76
76	77	95.68	0.00	-21.13	566.80
77	77	95.68	0.00	-21.13	566.80

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.iPF75B.MZ-

Rotura.Dominante IPF75B Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	10.94	574.00
78	78	97.25	0.00	10.94	574.00
78	79	98.83	0.00	33.53	538.98
79	79	98.83	0.00	33.53	538.98
79	80	100.40	0.00	56.12	468.35
80	80	100.40	0.00	56.12	468.35
80	81	101.98	0.00	78.71	362.15
81	81	101.98	0.00	78.71	362.15
81	82	103.55	0.00	101.32	220.35
82	82	103.55	0.32	101.30	220.35
82	83	105.13	0.41	123.88	42.99
83	83	105.13	0.41	123.88	42.99
83	84	106.70	0.52	149.73	-171.72
84	84	106.70	0.02	149.75	-171.72
84	85	108.28	0.02	290.81	-500.97
85	85	108.28	0.02	290.81	-500.97
85	86	109.85	-0.92	420.18	-1062.20
86	86	109.85	0.00	420.26	-1062.20
86	87	111.43	0.00	547.55	-1831.86
87	87	111.43	0.00	547.55	-1831.86
87	88	112.00	0.00	617.63	-2175.82
88	88	112.00	0.00	617.63	-2175.82
88	89	113.00	0.00	709.79	-2849.24
89	1089	113.00	0.00	-704.62	-2849.24
89	90	114.00	0.00	-612.54	-2181.34
90	90	114.00	0.00	-612.54	-2181.34
90	91	114.58	0.00	-542.60	-1841.30
91	91	114.58	0.00	-542.60	-1841.30
91	92	116.15	0.00	-415.60	-1080.05
92	92	116.15	-0.85	-415.52	-1080.05
92	93	117.73	0.08	-287.00	-526.89
93	93	117.73	0.08	-287.00	-526.89
93	94	119.30	0.08	-158.84	-194.06
94	94	119.30	0.42	-158.82	-194.06
94	95	120.88	0.32	-132.97	34.93
95	95	120.88	0.32	-132.97	34.93
95	96	122.45	0.22	-110.38	226.64
96	96	122.45	0.00	-110.40	226.64
96	97	124.03	0.00	-87.80	382.74
97	97	124.03	0.00	-87.80	382.74
97	98	125.60	0.00	-65.20	503.23
98	98	125.60	0.00	-65.20	503.23
98	99	127.18	0.00	-42.62	588.17
99	99	127.18	0.00	-42.62	588.17
99	100	128.75	0.00	-20.03	637.52
100	100	128.75	0.00	-20.03	637.52
100	101	130.33	0.00	2.57	651.30
101	101	130.33	0.00	2.57	651.30
101	102	131.90	0.00	33.73	620.77
102	102	131.90	0.00	33.73	620.77
102	103	133.48	0.00	56.33	549.84

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.MZ-

Rotura.Dominante IPF75B Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	56.33	549.84
103	104	135.05	0.00	78.93	443.34
104	104	135.05	0.54	78.91	443.34
104	105	136.63	0.64	101.51	301.24
105	105	136.63	0.64	101.51	301.24
105	106	138.20	0.74	124.11	123.56
106	106	138.20	-0.08	124.11	123.56
106	107	139.78	-0.08	305.20	-180.67
107	107	139.78	-0.08	305.20	-180.67
107	108	141.35	-1.02	425.30	-749.06
108	108	141.35	0.00	425.39	-749.06
108	109	142.93	0.00	570.46	-1540.31
109	109	142.93	0.00	570.46	-1540.31
109	110	143.50	0.00	637.70	-1886.47
110	110	143.50	0.00	637.70	-1886.47
110	111	144.50	0.00	700.28	-2554.40
111	1111	144.50	0.00	-609.20	-2554.40
111	112	145.50	0.00	-530.11	-1985.17
112	112	145.50	0.00	-530.11	-1985.17
112	113	145.68	0.00	-483.23	-1894.66
113	113	145.68	0.00	-483.23	-1894.66
113	114	146.85	0.00	-386.08	-1380.42
114	114	146.85	-2.02	-385.82	-1380.42
114	115	148.03	-0.77	-263.72	-997.92
115	115	148.03	-0.77	-263.72	-997.92
115	116	149.20	-0.77	-229.32	-713.60
116	116	149.20	-0.82	-229.43	-713.60
116	117	150.38	-0.28	-156.50	-475.77
117	117	150.38	-0.28	-156.50	-475.77
117	118	151.55	-0.35	-136.62	-303.44
118	118	151.55	0.00	-136.64	-303.44
118	119	152.73	0.00	-119.78	-152.78
119	119	152.73	0.00	-119.78	-152.78
119	120	153.90	0.00	-102.92	-21.97
120	120	153.90	0.00	-102.92	-21.97
120	121	155.08	0.00	-86.06	89.10
121	121	155.08	0.00	-86.06	89.10
121	122	156.25	0.00	-69.21	180.31
122	122	156.25	0.00	-69.21	180.31
122	123	157.43	0.00	-52.35	251.75
123	123	157.43	0.00	-52.35	251.75
123	124	158.60	0.00	-35.50	303.36
124	124	158.60	0.00	-35.50	303.36
124	125	159.78	0.00	-18.65	335.19
125	125	159.78	0.00	-18.65	335.19
125	126	160.95	0.00	-1.80	347.17
126	126	160.95	0.00	-1.80	347.17
126	127	162.13	0.00	15.06	339.40
127	127	162.13	0.00	15.06	339.40
127	128	163.30	0.00	31.92	311.81
128	128	163.30	0.00	31.92	311.81

CÁLCULO TENSIONAL

Hipótesis de cálculo:

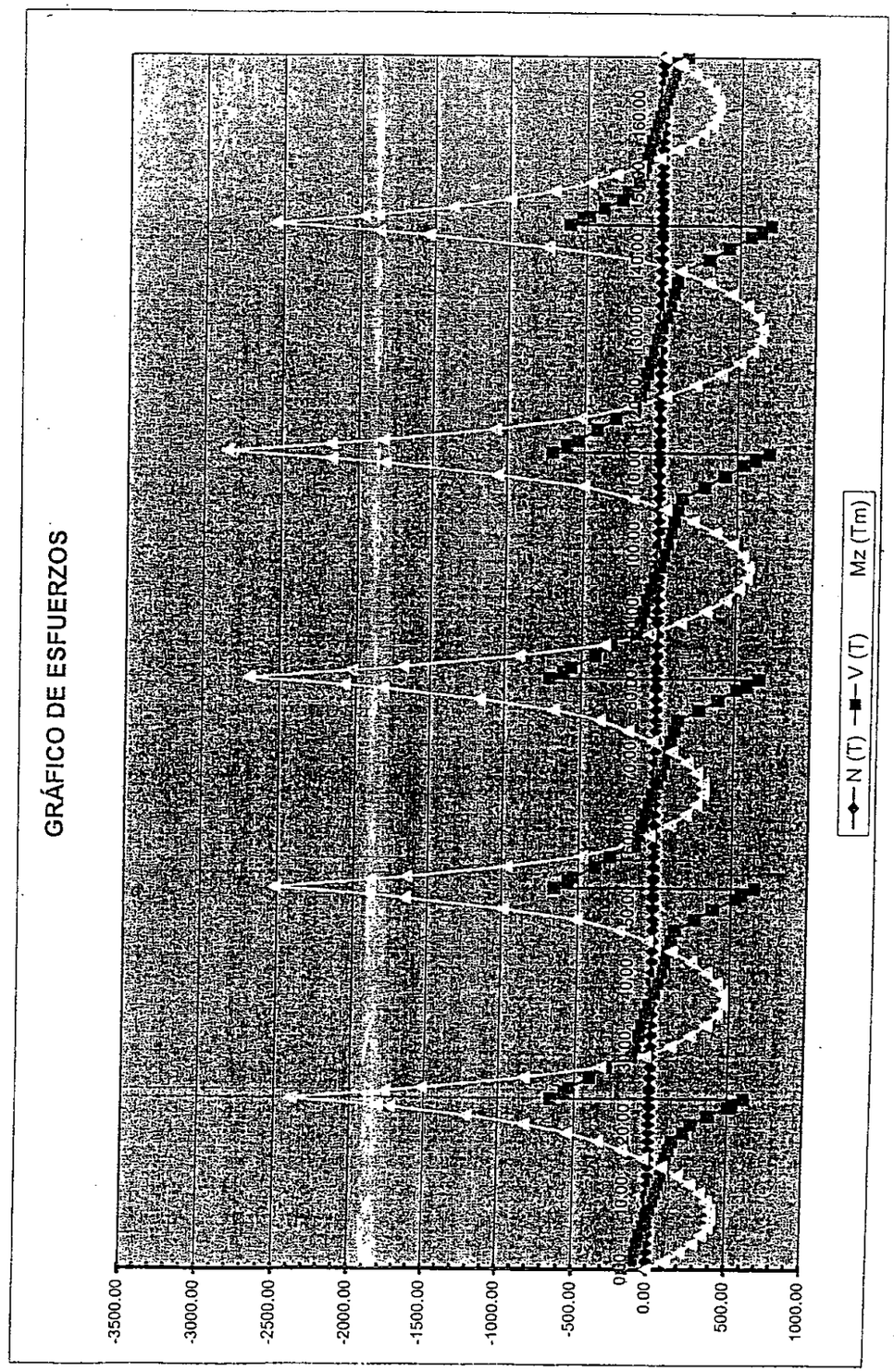
Rotura.T0.IPF75B.MZ-

Rotura.Dominante IPF75B Mz-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	48.77	264.41
129	129	164.48	0.00	48.77	264.41
129	130	165.65	0.00	65.64	197.17
130	130	165.65	0.00	65.64	197.17
130	131	166.83	0.00	82.50	110.19
131	131	166.83	0.00	82.50	110.19
131	132	167.00	0.00	85.00	95.51
132	132	167.00	0.00	85.00	95.51
132	133	168.00	0.00	152.12	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.GRAD.MZ+

Rotura Mz+.Dominante GRAD. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-177.11	0.00
1	2	1.00	0.00	-398.15	419.79
2	2	1.00	0.00	-398.15	419.79
2	3	1.18	0.00	-391.74	488.46
3	3	1.18	0.00	-391.74	488.46
3	4	2.35	0.00	-349.37	920.06
4	4	2.35	0.00	-349.37	920.06
4	5	3.53	0.00	-307.08	1299.59
5	5	3.53	0.00	-307.08	1299.59
5	6	4.70	0.00	-264.57	1631.19
6	6	4.70	0.00	-264.57	1631.19
6	7	5.88	0.00	-221.91	1913.83
7	7	5.88	0.00	-221.91	1913.83
7	8	7.05	0.00	-172.04	2145.39
8	8	7.05	0.00	-172.04	2145.39
8	9	8.23	0.00	-129.75	2326.10
9	9	8.23	0.00	-129.75	2326.10
9	10	9.40	0.00	-87.25	2457.99
10	10	9.40	0.00	-87.25	2457.99
10	11	10.58	0.00	-52.30	2540.60
11	11	10.58	0.00	-52.30	2540.60
11	12	11.75	0.00	-2.96	2570.84
12	12	11.75	0.00	-2.96	2570.84
12	13	12.93	0.00	33.39	2552.89
13	13	12.93	0.00	33.39	2552.89
13	14	14.10	0.00	81.85	2484.80
14	14	14.10	0.00	81.85	2484.80
14	15	15.28	0.00	117.68	2368.64
15	15	15.28	0.00	117.68	2368.64
15	16	16.45	0.00	159.99	2201.39
16	16	16.45	-1.29	159.99	2201.45
16	17	17.63	-1.60	199.54	1984.16
17	17	17.63	-1.60	199.54	1984.16
17	18	18.80	-1.30	187.15	1743.66
18	18	18.80	0.18	187.18	1743.59
18	19	19.98	0.18	215.78	1500.89
19	19	19.98	0.18	215.78	1500.89
19	20	21.15	0.04	174.51	1279.72
20	20	21.15	0.00	174.52	1279.72
20	21	22.33	0.00	163.07	1086.58
21	21	22.33	0.00	163.07	1086.58
21	22	22.50	0.00	155.62	1059.03
22	22	22.50	0.00	155.62	1059.03
22	23	23.50	0.00	135.79	898.89
23	1023	23.50	0.00	-186.40	898.89
23	24	24.50	0.00	-217.96	1114.40
24	24	24.50	0.00	-217.96	1114.40
24	25	24.95	0.00	-220.55	1210.11
25	25	24.95	0.00	-220.55	1210.11
25	26	26.40	0.00	-222.35	1528.47
26	26	26.40	-0.42	-222.31	1528.47

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.GRAD.MZ+

Rotura Mz+.Dominante GRAD. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	0.04	-248.50	1885.16
27	27	27.85	0.04	-248.50	1885.16
27	28	29.30	0.04	-309.64	2296.82
28	28	29.30	-2.04	-309.61	2296.87
28	29	30.75	-1.71	-259.88	2715.70
29	29	30.75	-1.71	-259.88	2715.70
29	30	32.20	-1.37	-207.01	3059.92
30	30	32.20	0.00	-207.01	3059.85
30	31	33.65	0.00	-155.40	3326.26
31	31	33.65	0.00	-155.40	3326.26
31	32	35.10	0.00	-109.85	3518.47
32	32	35.10	0.00	-109.85	3518.47
32	33	36.55	0.00	-49.89	3634.93
33	33	36.55	0.00	-49.89	3634.93
33	34	38.00	0.00	-4.33	3672.77
34	34	38.00	0.00	-4.33	3672.77
34	35	39.45	0.00	47.28	3638.73
35	35	39.45	0.00	47.28	3638.73
35	36	40.90	0.00	107.23	3525.99
36	36	40.90	0.00	107.23	3525.99
36	37	42.35	0.00	152.78	3337.63
37	37	42.35	0.00	152.78	3337.63
37	38	43.80	0.00	204.39	3074.96
38	38	43.80	-1.35	204.39	3075.04
38	39	45.25	-1.70	257.27	2734.57
39	39	45.25	-1.70	257.27	2734.57
39	40	46.70	-2.05	307.05	2319.23
40	40	46.70	-0.04	307.04	2319.16
40	41	48.15	-0.04	270.16	1889.17
41	41	48.15	-0.04	270.16	1889.17
41	42	49.60	-0.52	246.35	1512.19
42	42	49.60	0.00	246.41	1512.19
42	43	51.05	0.00	233.47	1171.29
43	43	51.05	0.00	233.47	1171.29
43	44	51.50	0.00	230.95	1068.81
44	44	51.50	0.00	230.95	1068.81
44	45	52.50	0.00	199.44	839.70
45	1045	52.50	0.00	-188.22	839.70
45	46	53.50	0.00	-219.77	1057.40
46	46	53.50	0.00	-219.77	1057.40
46	47	53.95	0.00	-222.34	1154.63
47	47	53.95	0.00	-222.34	1154.63
47	48	55.40	0.00	-238.77	1479.67
48	48	55.40	-0.47	-238.71	1479.67
48	49	56.85	0.00	-257.66	1849.72
49	49	56.85	0.00	-257.66	1849.72
49	50	58.30	0.00	-313.23	2270.21
50	50	58.30	-2.09	-313.20	2270.28
50	51	59.75	-1.76	-263.36	2694.05
51	51	59.75	-1.76	-263.36	2694.05
51	52	61.20	-1.39	-210.49	3043.46

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.MZ+

Rotura Mz+.Dominante GRAD. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-210.49	3043.39
52	53	62.65	0.00	-158.89	3314.82
53	53	62.65	0.00	-158.89	3314.82
53	54	64.10	0.00	-113.33	3512.11
54	54	64.10	0.00	-113.33	3512.11
54	55	65.55	0.00	-53.39	3633.68
55	55	65.55	0.00	-53.39	3633.68
55	56	67.00	0.00	-7.82	3676.59
56	56	67.00	0.00	-7.82	3676.59
56	57	68.45	0.00	43.77	3647.67
57	57	68.45	0.00	43.77	3647.67
57	58	69.90	0.00	103.70	3540.02
58	58	69.90	0.00	103.70	3540.02
58	59	71.35	0.00	149.28	3356.74
59	59	71.35	0.00	149.28	3356.74
59	60	72.80	0.00	200.88	3099.19
60	60	72.80	-1.31	200.86	3099.25
60	61	74.25	-1.70	253.75	2763.80
61	61	74.25	-1.70	253.75	2763.80
61	62	75.70	-2.00	303.41	2355.50
62	62	75.70	0.00	303.42	2355.44
62	63	77.15	0.00	263.51	1951.92
63	63	77.15	0.00	263.51	1951.92
63	64	78.60	-0.47	234.80	1578.31
64	64	78.60	0.00	234.85	1578.31
64	65	80.05	0.00	222.03	1249.88
65	65	80.05	0.00	222.03	1249.88
65	66	80.50	0.00	219.50	1151.98
66	66	80.50	0.00	219.50	1151.98
66	67	81.50	0.00	188.00	933.93
67	1067	81.50	0.00	-208.01	933.93
67	68	82.50	0.00	-245.09	1173.32
68	68	82.50	0.00	-245.09	1173.32
68	69	83.08	0.00	-248.14	1311.35
69	69	83.08	0.00	-248.14	1311.35
69	70	84.65	0.00	-262.48	1703.72
70	70	84.65	-0.45	-262.44	1703.72
70	71	86.23	0.01	-290.86	2143.88
71	71	86.23	0.01	-290.86	2143.88
71	72	87.80	0.01	-345.06	2674.26
72	72	87.80	-2.14	-345.03	2674.31
72	73	89.38	-1.81	-288.00	3166.08
73	73	89.38	-1.81	-288.00	3166.08
73	74	90.95	-1.36	-223.92	3571.37
74	74	90.95	0.00	-223.95	3571.28
74	75	92.53	0.00	-166.87	3885.36
75	75	92.53	0.00	-166.87	3885.36
75	76	94.10	0.00	-117.66	4108.75
76	76	94.10	0.00	-117.66	4108.75
76	77	95.68	0.00	-60.72	4244.05
77	77	95.68	0.00	-60.72	4244.05

Rotura.xls Programa DINTEL IDEAM S.A. 10/09/01
Rotura.Tinf.GRAD.MZ+

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.MZ+

Rotura Mz+.Dominante GRAD. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	-3.27	4287.13
78	78	97.25	0.00	-3.27	4287.13
78	79	98.83	0.00	60.53	4244.38
79	79	98.83	0.00	60.53	4244.38
79	80	100.40	0.00	117.46	4109.37
80	80	100.40	0.00	117.46	4109.37
80	81	101.98	0.00	166.68	3886.34
81	81	101.98	0.00	166.68	3886.34
81	82	103.55	0.00	223.75	3572.58
82	82	103.55	-1.35	223.74	3572.65
82	83	105.13	-1.78	287.81	3167.70
83	83	105.13	-1.78	287.81	3167.70
83	84	106.70	-2.07	341.62	2678.02
84	84	106.70	-0.01	341.62	2677.96
84	85	108.28	-0.01	301.89	2164.20
85	85	108.28	-0.01	301.89	2164.20
85	86	109.85	-0.48	262.99	1707.17
86	86	109.85	0.00	263.05	1707.17
86	87	111.43	0.00	249.01	1308.80
87	87	111.43	0.00	249.01	1308.80
87	88	112.00	0.00	246.46	1169.63
88	88	112.00	0.00	246.46	1169.63
88	89	113.00	0.00	209.42	928.38
89	1089	113.00	0.00	-217.80	928.38
89	90	114.00	0.00	-254.82	1178.13
90	90	114.00	0.00	-254.82	1178.13
90	91	114.58	0.00	-255.21	1322.06
91	91	114.58	0.00	-255.21	1322.06
91	92	116.15	0.00	-269.10	1730.66
92	92	116.15	-0.52	-269.07	1730.66
92	93	117.73	-0.05	-307.41	2195.15
93	93	117.73	-0.05	-307.41	2195.15
93	94	119.30	-0.05	-339.47	2712.23
94	94	119.30	-2.07	-339.46	2712.29
94	95	120.88	-1.77	-285.65	3198.64
95	95	120.88	-1.77	-285.65	3198.64
95	96	122.45	-1.33	-221.58	3600.26
96	96	122.45	0.00	-221.59	3600.18
96	97	124.03	0.00	-164.52	3910.57
97	97	124.03	0.00	-164.52	3910.57
97	98	125.60	0.00	-115.30	4130.28
98	98	125.60	0.00	-115.30	4130.28
98	99	127.18	0.00	-58.38	4261.89
99	99	127.18	0.00	-58.38	4261.89
99	100	128.75	0.00	-0.94	4301.31
100	100	128.75	0.00	-0.94	4301.31
100	101	130.33	0.00	62.86	4254.86
101	101	130.33	0.00	62.86	4254.86
101	102	131.90	0.00	119.81	4116.19
102	102	131.90	0.00	119.81	4116.19
102	103	133.48	0.00	169.00	3889.48

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.GRAD.MZ+

Rotura Mz+.Dominante GRAD. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	169.00	3889.48
103	104	135.05	0.00	226.11	3572.01
104	104	135.05	-1.38	226.10	3572.09
104	105	136.63	-1.78	290.16	3163.51
105	105	136.63	-1.78	290.16	3163.51
105	106	138.20	-2.18	347.20	2668.34
106	106	138.20	0.05	347.20	2668.29
106	107	139.78	0.05	283.31	2143.99
107	107	139.78	0.05	283.31	2143.99
107	108	141.35	-0.41	246.68	1714.19
108	108	141.35	0.00	246.74	1714.19
108	109	142.93	0.00	244.74	1329.70
109	109	142.93	0.00	244.74	1329.70
109	110	143.50	0.00	227.41	1193.17
110	110	143.50	0.00	227.41	1193.17
110	111	144.50	0.00	207.18	955.03
111	1111	144.50	0.00	-133.41	955.03
111	112	145.50	0.00	-153.23	1112.97
112	112	145.50	0.00	-153.23	1112.97
112	113	145.68	0.00	-160.67	1140.33
113	113	145.68	0.00	-160.67	1140.33
113	114	146.85	0.00	-171.98	1333.65
114	114	146.85	0.02	-171.99	1333.65
114	115	148.03	0.16	-220.63	1560.59
115	115	148.03	0.16	-220.63	1560.59
115	116	149.20	0.16	-184.07	1802.04
116	116	149.20	-1.26	-184.03	1802.11
116	117	150.38	-1.58	-197.45	2020.69
117	117	150.38	-1.58	-197.45	2020.69
117	118	151.55	-1.27	-157.96	2234.15
118	118	151.55	0.00	-157.99	2234.10
118	119	152.73	0.00	-115.69	2399.03
119	119	152.73	0.00	-115.69	2399.03
119	120	153.90	0.00	-79.85	2512.87
120	120	153.90	0.00	-79.85	2512.87
120	121	155.08	0.00	-31.41	2578.58
121	121	155.08	0.00	-31.41	2578.58
121	122	156.25	0.00	4.95	2594.22
122	122	156.25	0.00	4.95	2594.22
122	123	157.43	0.00	54.27	2561.62
123	123	157.43	0.00	54.27	2561.62
123	124	158.60	0.00	89.23	2476.71
124	124	158.60	0.00	89.23	2476.71
124	125	159.78	0.00	131.73	2342.48
125	125	159.78	0.00	131.73	2342.48
125	126	160.95	0.00	174.04	2159.41
126	126	160.95	0.00	174.04	2159.41
126	127	162.13	0.00	223.92	1925.55
127	127	162.13	0.00	223.92	1925.55
127	128	163.30	0.00	266.55	1640.54
128	128	163.30	0.00	266.55	1640.54

Rotura.xls Programa DINTEL IDEAM S.A. 10/09/01
Rotura.Tinf.GRAD.MZ+

CÁLCULO TENSIONAL

Hipótesis de cálculo:

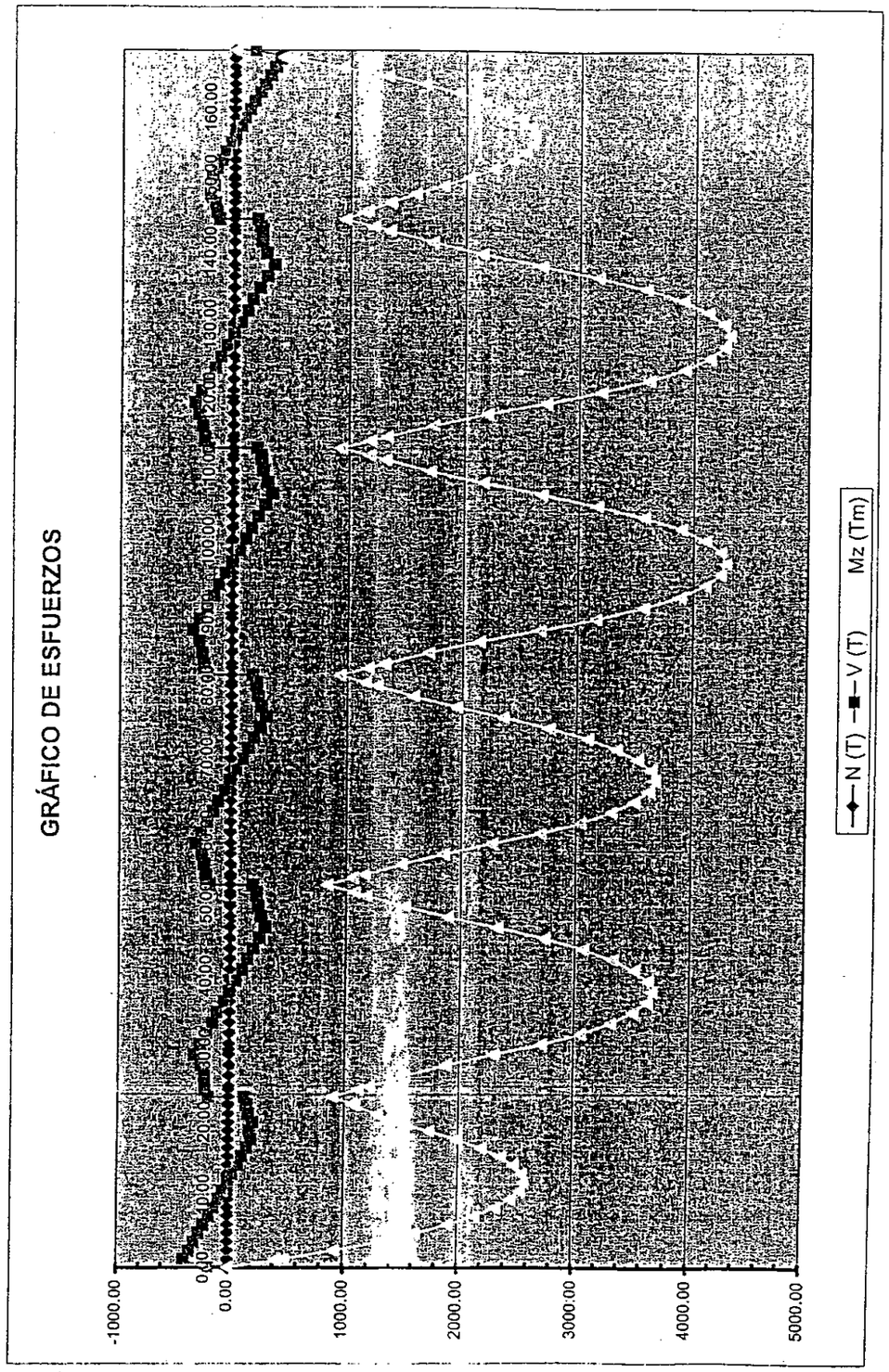
Rotura.Tinf.GRAD.MZ+

Rotura Mz+.Dominante GRAD. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	309.06	1306.61
129	129	164.48	0.00	309.06	1306.61
129	130	165.65	0.00	351.37	924.73
130	130	165.65	0.00	351.37	924.73
130	131	166.83	0.00	393.73	490.78
131	131	166.83	0.00	393.73	490.78
131	132	167.00	0.00	400.13	421.72
132	132	167.00	0.00	400.13	421.72
132	133	168.00	0.00	178.03	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.GRAD.MZ-

Rotura Mz-.Dominante GRAD. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-177.11	0.00
1	2	1.00	0.00	-126.78	137.30
2	2	1.00	0.00	-126.78	137.30
2	3	1.18	0.00	-124.27	159.27
3	3	1.18	0.00	-124.27	159.27
3	4	2.35	0.00	-107.41	295.39
4	4	2.35	0.00	-107.41	295.39
4	5	3.53	0.00	-90.56	411.68
5	5	3.53	0.00	-90.56	411.68
5	6	4.70	0.00	-73.69	508.17
6	6	4.70	0.00	-73.69	508.17
6	7	5.88	0.00	-56.83	584.87
7	7	5.88	0.00	-56.83	584.87
7	8	7.05	0.00	-39.98	641.76
8	8	7.05	0.00	-39.98	641.76
8	9	8.23	0.00	-23.13	678.85
9	9	8.23	0.00	-23.13	678.85
9	10	9.40	0.00	-6.27	696.15
10	10	9.40	0.00	-6.27	696.15
10	11	10.58	0.00	10.58	693.61
11	11	10.58	0.00	10.58	693.61
11	12	11.75	0.00	27.43	671.27
12	12	11.75	0.00	27.43	671.27
12	13	12.93	0.00	44.29	629.15
13	13	12.93	0.00	44.29	629.15
13	14	14.10	0.00	61.15	567.18
14	14	14.10	0.00	61.15	567.18
14	15	15.28	0.00	78.00	485.44
15	15	15.28	0.00	78.00	485.44
15	16	16.45	0.00	94.86	383.90
16	16	16.45	-1.32	94.86	383.94
16	17	17.63	-1.59	114.66	262.17
17	17	17.63	-1.59	114.66	262.17
17	18	18.80	-2.50	186.52	92.95
18	18	18.80	-0.17	186.53	92.89
18	19	19.98	-0.17	224.65	-143.15
19	19	19.98	-0.17	224.65	-143.15
19	20	21.15	-0.36	300.53	-456.12
20	20	21.15	0.00	300.59	-456.12
20	21	22.33	0.00	386.78	-861.76
21	21	22.33	0.00	386.78	-861.76
21	22	22.50	0.00	402.73	-931.18
22	22	22.50	0.00	402.73	-931.18
22	23	23.50	0.00	456.93	-1360.78
23	1023	23.50	0.00	-514.70	-1360.78
23	24	24.50	0.00	-452.91	-874.44
24	24	24.50	0.00	-452.91	-874.44
24	25	24.95	0.00	-427.87	-673.35
25	25	24.95	0.00	-427.87	-673.35
25	26	26.40	0.00	-333.99	-116.52
26	26	26.40	0.11	-333.99	-116.52

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.MZ-

Rotura Mz-.Dominante GRAD. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.04	-256.05	308.34
27	27	27.85	-0.04	-256.05	308.34
27	28	29.30	-0.04	-122.52	580.24
28	28	29.30	-1.43	-122.52	580.28
28	29	30.75	-1.16	-98.82	739.65
29	29	30.75	-1.16	-98.82	739.65
29	30	32.20	-0.93	-78.03	867.85
30	30	32.20	0.00	-78.02	867.79
30	31	33.65	0.00	-57.21	965.81
31	31	33.65	0.00	-57.21	965.81
31	32	35.10	0.00	-36.43	1033.70
32	32	35.10	0.00	-36.43	1033.70
32	33	36.55	0.00	-15.62	1071.39
33	33	36.55	0.00	-15.62	1071.39
33	34	38.00	0.00	10.50	1072.41
34	34	38.00	0.00	10.50	1072.41
34	35	39.45	0.00	31.31	1042.12
35	35	39.45	0.00	31.31	1042.12
35	36	40.90	0.00	52.11	981.62
36	36	40.90	0.00	52.11	981.62
36	37	42.35	0.00	72.90	890.99
37	37	42.35	0.00	72.90	890.99
37	38	43.80	0.00	93.70	770.17
38	38	43.80	-1.09	93.71	770.24
38	39	45.25	-1.31	114.50	619.30
39	39	45.25	-1.31	114.50	619.30
39	40	46.70	-1.59	138.17	437.51
40	40	46.70	0.04	138.17	437.45
40	41	48.15	0.04	247.46	164.90
41	41	48.15	0.04	247.46	164.90
41	42	49.60	0.17	325.69	-254.03
42	42	49.60	0.00	325.68	-254.03
42	43	51.05	0.00	427.08	-799.26
43	43	51.05	0.00	427.08	-799.26
43	44	51.50	0.00	451.48	-998.91
44	44	51.50	0.00	451.48	-998.91
44	45	52.50	0.00	514.70	-1486.07
45	1045	52.50	0.00	-517.72	-1486.07
45	46	53.50	0.00	-454.35	-995.12
46	46	53.50	0.00	-454.35	-995.12
46	47	53.95	0.00	-429.91	-793.91
47	47	53.95	0.00	-429.91	-793.91
47	48	55.40	0.00	-327.95	-242.26
48	48	55.40	0.13	-327.96	-242.26
48	49	56.85	0.00	-254.71	181.42
49	49	56.85	0.00	-254.71	181.42
49	50	58.30	0.00	-126.72	455.77
50	50	58.30	-1.50	-126.71	455.82
50	51	59.75	-1.23	-103.13	621.51
51	51	59.75	-1.23	-103.13	621.51
51	52	61.20	-0.98	-82.32	755.97

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.MZ-

Rotura Mz-.Dominante GRAD. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-82.32	755.91
52	53	62.65	0.00	-61.53	860.19
53	53	62.65	0.00	-61.53	860.19
53	54	64.10	0.00	-40.71	934.34
54	54	64.10	0.00	-40.71	934.34
54	55	65.55	0.00	-19.93	978.31
55	55	65.55	0.00	-19.93	978.31
55	56	67.00	0.00	7.41	986.28
56	56	67.00	0.00	7.41	986.28
56	57	68.45	0.00	28.21	960.45
57	57	68.45	0.00	28.21	960.45
57	58	69.90	0.00	49.00	904.47
58	58	69.90	0.00	49.00	904.47
58	59	71.35	0.00	69.81	818.32
59	59	71.35	0.00	69.81	818.32
59	60	72.80	0.00	90.61	702.00
60	60	72.80	-1.04	90.60	702.05
60	61	74.25	-1.29	111.40	555.59
61	61	74.25	-1.29	111.40	555.59
61	62	75.70	-1.55	135.17	376.34
62	62	75.70	0.00	135.17	376.29
62	63	77.15	0.00	247.50	86.92
63	63	77.15	0.00	247.50	86.92
63	64	78.60	0.14	330.64	-330.03
64	64	78.60	0.00	330.63	-330.03
64	65	80.05	0.00	413.90	-872.58
65	65	80.05	0.00	413.90	-872.58
65	66	80.50	0.00	456.23	-1069.85
66	66	80.50	0.00	456.23	-1069.85
66	67	81.50	0.00	519.15	-1558.66
67	1067	81.50	0.00	-553.56	-1558.66
67	68	82.50	0.00	-491.11	-1030.84
68	68	82.50	0.00	-491.11	-1030.84
68	69	83.08	0.00	-458.77	-753.88
69	69	83.08	0.00	-458.77	-753.88
69	70	84.65	0.00	-349.05	-116.15
70	70	84.65	0.12	-349.07	-116.15
70	71	86.23	-0.02	-269.59	372.74
71	71	86.23	-0.02	-269.59	372.74
71	72	87.80	-0.02	-135.71	657.68
72	72	87.80	-1.47	-135.70	657.72
72	73	89.38	-1.23	-113.11	853.65
73	73	89.38	-1.23	-113.11	853.65
73	74	90.95	-0.97	-90.51	1014.02
74	74	90.95	0.00	-90.52	1013.95
74	75	92.53	0.00	-67.93	1138.73
75	75	92.53	0.00	-67.93	1138.73
75	76	94.10	0.00	-45.33	1227.92
76	76	94.10	0.00	-45.33	1227.92
76	77	95.68	0.00	-22.74	1281.53
77	77	95.68	0.00	-22.74	1281.53

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.MZ-
Rotura Mz-.Dominante GRAD. Tinf
[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	5.54	1294.60
78	78	97.25	0.00	5.54	1294.60
78	79	98.83	0.00	28.14	1268.08
79	79	98.83	0.00	28.14	1268.08
79	80	100.40	0.00	50.74	1205.94
80	80	100.40	0.00	50.74	1205.94
80	81	101.98	0.00	73.33	1108.28
81	81	101.98	0.00	73.33	1108.28
81	82	103.55	0.00	95.91	974.99
82	82	103.55	-1.03	95.92	975.05
82	83	105.13	-1.28	118.50	806.22
83	83	105.13	-1.28	118.50	806.22
83	84	106.70	-1.54	144.33	600.01
84	84	106.70	0.02	144.33	599.97
84	85	108.28	0.02	263.74	290.23
85	85	108.28	0.02	263.74	290.23
85	86	109.85	0.16	354.18	-197.12
86	86	109.85	0.00	354.18	-197.12
86	87	111.43	0.00	444.71	-831.10
87	87	111.43	0.00	444.71	-831.10
87	88	112.00	0.00	491.69	-1105.71
88	88	112.00	0.00	491.69	-1105.71
88	89	113.00	0.00	557.73	-1636.24
89	1089	113.00	0.00	-555.74	-1636.24
89	90	114.00	0.00	-489.75	-1107.85
90	90	114.00	0.00	-489.75	-1107.85
90	91	114.58	0.00	-442.87	-834.99
91	91	114.58	0.00	-442.87	-834.99
91	92	116.15	0.00	-352.49	-204.30
92	92	116.15	0.17	-352.52	-204.30
92	93	117.73	0.04	-262.59	279.98
93	93	117.73	0.04	-262.59	279.98
93	94	119.30	0.04	-150.85	593.20
94	94	119.30	-1.61	-150.84	593.25
94	95	120.88	-1.34	-125.00	809.68
95	95	120.88	-1.34	-125.00	809.68
95	96	122.45	-1.10	-102.41	988.78
96	96	122.45	0.00	-102.42	988.72
96	97	124.03	0.00	-79.83	1132.24
97	97	124.03	0.00	-79.83	1132.24
97	98	125.60	0.00	-57.23	1240.17
98	98	125.60	0.00	-57.23	1240.17
98	99	127.18	0.00	-34.63	1312.50
99	99	127.18	0.00	-34.63	1312.50
99	100	128.75	0.00	-12.05	1349.26
100	100	128.75	0.00	-12.05	1349.26
100	101	130.33	0.00	10.54	1350.46
101	101	130.33	0.00	10.54	1350.46
101	102	131.90	0.00	38.29	1310.84
102	102	131.90	0.00	38.29	1310.84
102	103	133.48	0.00	60.88	1232.74

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.MZ-
Rotura Mz-.Dominante GRAD. Tinf
[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	60.88	1232.74
103	104	135.05	0.00	83.47	1119.05
104	104	135.05	-0.91	83.48	1119.12
104	105	136.63	-1.15	106.08	969.85
105	105	136.63	-1.15	106.08	969.85
105	106	138.20	-1.41	128.67	784.99
106	106	138.20	-0.04	128.66	784.95
106	107	139.78	-0.04	272.24	501.62
107	107	139.78	-0.04	272.24	501.62
107	108	141.35	0.10	357.11	10.20
108	108	141.35	0.00	357.12	10.20
108	109	142.93	0.00	458.27	-635.56
109	109	142.93	0.00	458.27	-635.56
109	110	143.50	0.00	503.53	-911.39
110	110	143.50	0.00	503.53	-911.39
110	111	144.50	0.00	551.82	-1438.40
111	1111	144.50	0.00	-460.63	-1438.40
111	112	145.50	0.00	-402.45	-1007.10
112	112	145.50	0.00	-402.45	-1007.10
112	113	145.68	0.00	-372.82	-938.15
113	113	145.68	0.00	-372.82	-938.15
113	114	146.85	0.00	-304.48	-538.12
114	114	146.85	-0.36	-304.43	-538.12
114	115	148.03	-0.17	-221.13	-228.90
115	115	148.03	-0.17	-221.13	-228.90
115	116	149.20	-0.17	-190.93	9.92
116	116	149.20	-2.54	-190.94	9.97
116	117	150.38	-1.62	-118.01	202.59
117	117	150.38	-1.62	-118.01	202.59
117	118	151.55	-1.36	-98.13	329.70
118	118	151.55	0.00	-98.15	329.65
118	119	152.73	0.00	-81.29	435.08
119	119	152.73	0.00	-81.29	435.08
119	120	153.90	0.00	-64.43	520.69
120	120	153.90	0.00	-64.43	520.69
120	121	155.08	0.00	-47.58	586.50
121	121	155.08	0.00	-47.58	586.50
121	122	156.25	0.00	-30.72	632.53
122	122	156.25	0.00	-30.72	632.53
122	123	157.43	0.00	-13.88	658.72
123	123	157.43	0.00	-13.88	658.72
123	124	158.60	0.00	2.99	665.15
124	124	158.60	0.00	2.99	665.15
124	125	159.78	0.00	19.84	651.74
125	125	159.78	0.00	19.84	651.74
125	126	160.95	0.00	36.69	618.50
126	126	160.95	0.00	36.69	618.50
126	127	162.13	0.00	53.55	565.50
127	127	162.13	0.00	53.55	565.50
127	128	163.30	0.00	70.40	492.69
128	128	163.30	0.00	70.40	492.69

CÁLCULO TENSIONAL

Hipótesis de cálculo:

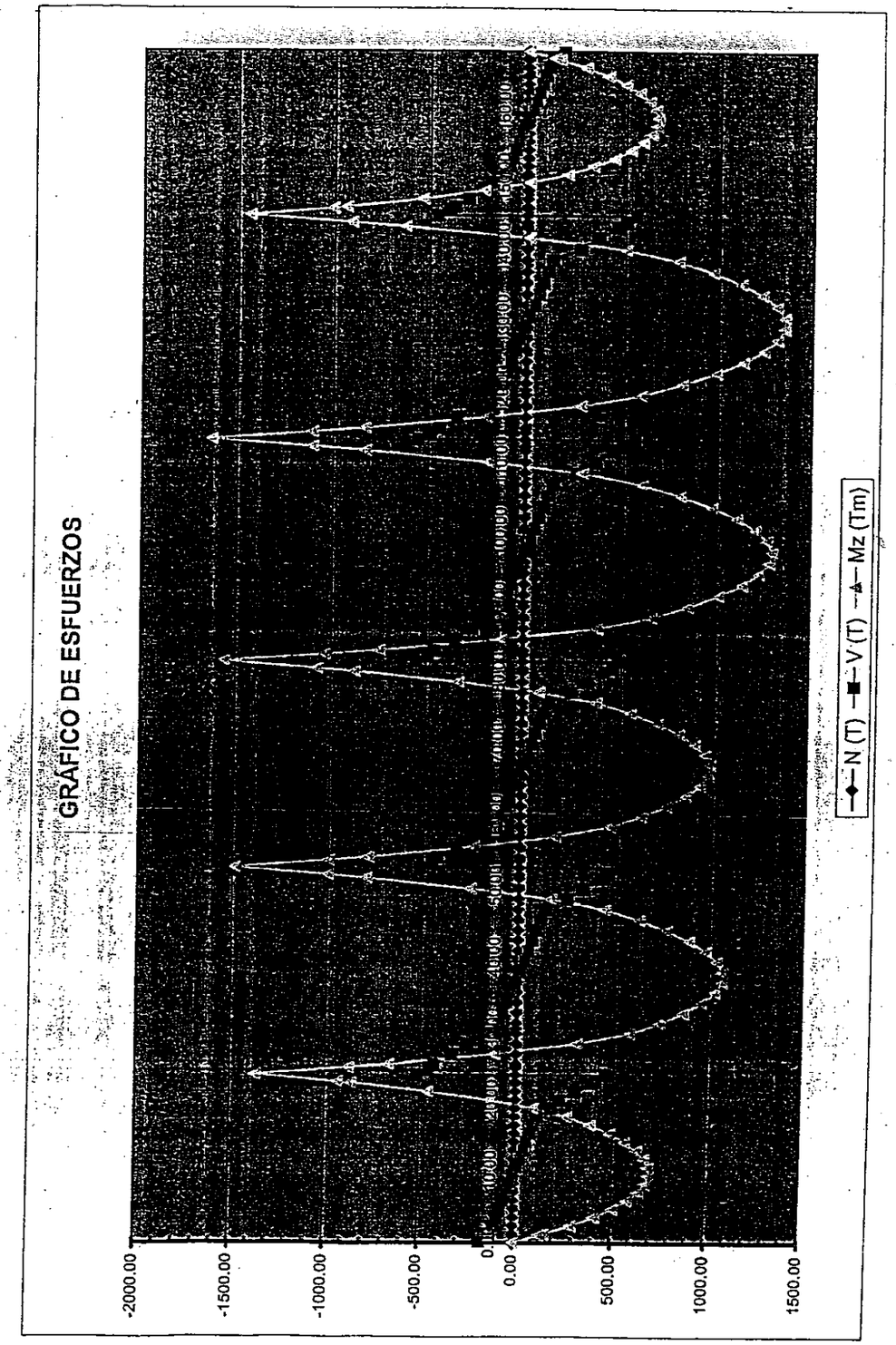
Rotura.Tinf.GRAD.MZ-

Rotura Mz-.Dominante GRAD. Tinf

[1; 1.35]Pvigas + [1; 1.35]Preloses + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.:

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	87.26	400.06
129	129	164.48	0.00	87.26	400.06
129	130	165.65	0.00	104.12	287.64
130	130	165.65	0.00	104.12	287.64
130	131	166.83	0.00	120.97	155.40
131	131	166.83	0.00	120.97	155.40
131	132	167.00	0.00	123.49	134.00
132	132	167.00	0.00	123.49	134.00
132	133	168.00	0.00	178.03	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.IPF75B.MZ+

Rotura Mz+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Preloses + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-177.11	0.00
1	2	1.00	0.00	-482.46	507.88
2	2	1.00	0.00	-482.46	507.88
2	3	1.18	0.00	-474.46	590.86
3	3	1.18	0.00	-474.46	590.86
3	4	2.35	0.00	-421.79	1111.07
4	4	2.35	0.00	-421.79	1111.07
4	5	3.53	0.00	-369.24	1565.56
5	5	3.53	0.00	-369.24	1565.56
5	6	4.70	0.00	-316.34	1961.28
6	6	4.70	0.00	-316.34	1961.28
6	7	5.88	0.00	-263.18	2296.47
7	7	5.88	0.00	-263.18	2296.47
7	8	7.05	0.00	-198.01	2567.59
8	8	7.05	0.00	-198.01	2567.59
8	9	8.23	0.00	-145.47	2775.07
9	9	8.23	0.00	-145.47	2775.07
9	10	9.40	0.00	-92.57	2922.24
10	10	9.40	0.00	-92.57	2922.24
10	11	10.58	0.00	-52.26	3008.39
11	11	10.58	0.00	-52.26	3008.39
11	12	11.75	0.00	12.02	3028.34
12	12	11.75	0.00	12.02	3028.34
12	13	12.93	0.00	54.66	2989.03
13	13	12.93	0.00	54.66	2989.03
13	14	14.10	0.00	117.47	2887.28
14	14	14.10	0.00	117.47	2887.28
14	15	15.28	0.00	159.26	2726.46
15	15	15.28	0.00	159.26	2726.46
15	16	16.45	0.00	211.82	2501.58
16	16	16.45	-1.90	211.82	2501.64
16	17	17.63	-2.34	261.75	2214.19
17	17	17.63	-2.34	261.75	2214.19
17	18	18.80	-2.16	259.86	1890.71
18	18	18.80	0.18	259.89	1890.64
18	19	19.98	0.18	294.32	1555.11
19	19	19.98	0.18	294.32	1555.11
19	20	21.15	0.04	213.13	1270.51
20	20	21.15	0.00	213.13	1270.51
20	21	22.33	0.00	181.63	1047.25
21	21	22.33	0.00	181.63	1047.25
21	22	22.50	0.00	167.37	1017.28
22	22	22.50	0.00	167.37	1017.28
22	23	23.50	0.00	137.87	850.11
23	1023	23.50	0.00	-172.50	850.11
23	24	24.50	0.00	-217.64	1055.91
24	24	24.50	0.00	-217.64	1055.91
24	25	24.95	0.00	-226.69	1150.98
25	25	24.95	0.00	-226.69	1150.98
25	26	26.40	0.00	-244.03	1487.10
26	26	26.40	-0.42	-243.99	1487.10

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.IPF75B.MZ+

Rotura Mz+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Preloses + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	0.04	-303.97	1909.95
27	27	27.85	0.04	-303.97	1909.95
27	28	29.30	0.04	-389.32	2422.96
28	28	29.30	-2.81	-389.29	2423.02
28	29	30.75	-2.34	-326.61	2951.22
29	29	30.75	-2.34	-326.61	2951.22
29	30	32.20	-1.89	-260.63	3386.54
30	30	32.20	0.00	-260.63	3386.47
30	31	33.65	0.00	-196.76	3724.20
31	31	33.65	0.00	-196.76	3724.20
31	32	35.10	0.00	-142.98	3970.36
32	32	35.10	0.00	-142.98	3970.36
32	33	36.55	0.00	-65.20	4122.40
33	33	36.55	0.00	-65.20	4122.40
33	34	38.00	0.00	-11.41	4175.50
34	34	38.00	0.00	-11.41	4175.50
34	35	39.45	0.00	52.46	4140.90
35	35	39.45	0.00	52.46	4140.90
35	36	40.90	0.00	130.23	4007.24
36	36	40.90	0.00	130.23	4007.24
36	37	42.35	0.00	184.01	3779.67
37	37	42.35	0.00	184.01	3779.67
37	38	43.80	0.00	247.88	3460.36
38	38	43.80	-1.76	247.87	3460.45
38	39	45.25	-2.24	313.87	3043.55
39	39	45.25	-2.24	313.87	3043.55
39	40	46.70	-2.72	376.59	2533.54
40	40	46.70	-0.04	376.58	2533.47
40	41	48.15	-0.04	331.73	2001.59
41	41	48.15	-0.04	331.73	2001.59
41	42	49.60	-0.52	275.70	1557.04
42	42	49.60	0.00	275.77	1557.04
42	43	51.05	0.00	239.95	1194.53
43	43	51.05	0.00	239.95	1194.53
43	44	51.50	0.00	230.98	1091.93
44	44	51.50	0.00	230.98	1091.93
44	45	52.50	0.00	185.94	871.76
45	1045	52.50	0.00	-169.23	871.76
45	46	53.50	0.00	-214.34	1074.93
46	46	53.50	0.00	-214.34	1074.93
46	47	53.95	0.00	-223.37	1169.66
47	47	53.95	0.00	-223.37	1169.66
47	48	55.40	0.00	-265.06	1508.76
48	48	55.40	-0.47	-265.00	1508.76
48	49	56.85	0.00	-312.92	1944.70
49	49	56.85	0.00	-312.92	1944.70
49	50	58.30	0.00	-389.60	2467.65
50	50	58.30	-2.82	-389.57	2467.72
50	51	59.75	-2.37	-326.78	2996.05
51	51	59.75	-2.37	-326.78	2996.05
51	52	61.20	-1.87	-260.81	3431.84

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.IPF75B.MZ+

Rotura Mz+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-260.81	3431.77
52	53	62.65	0.00	-196.95	3769.71
53	53	62.65	0.00	-196.95	3769.71
53	54	64.10	0.00	-143.16	4016.17
54	54	64.10	0.00	-143.16	4016.17
54	55	65.55	0.00	-65.40	4168.54
55	55	65.55	0.00	-65.40	4168.54
55	56	67.00	0.00	-11.61	4221.92
56	56	67.00	0.00	-11.61	4221.92
56	57	68.45	0.00	52.25	4187.69
57	57	68.45	0.00	52.25	4187.69
57	58	69.90	0.00	130.00	4054.34
58	58	69.90	0.00	130.00	4054.34
58	59	71.35	0.00	183.81	3827.06
59	59	71.35	0.00	183.81	3827.06
59	60	72.80	0.00	247.66	3508.12
60	60	72.80	-1.76	247.65	3508.18
60	61	74.25	-2.27	313.64	3091.49
61	61	74.25	-2.27	313.64	3091.49
61	62	75.70	-2.70	376.25	2583.77
62	62	75.70	0.00	376.26	2583.72
62	63	77.15	0.00	326.98	2071.43
63	63	77.15	0.00	326.98	2071.43
63	64	78.60	-0.47	262.78	1623.32
64	64	78.60	0.00	262.84	1623.32
64	65	80.05	0.00	227.17	1272.05
65	65	80.05	0.00	227.17	1272.05
65	66	80.50	0.00	218.21	1174.24
66	66	80.50	0.00	218.21	1174.24
66	67	81.50	0.00	173.18	966.19
67	1067	81.50	0.00	-191.83	966.19
67	68	82.50	0.00	-244.30	1193.23
68	68	82.50	0.00	-244.30	1193.23
68	69	83.08	0.00	-255.45	1330.65
69	69	83.08	0.00	-255.45	1330.65
69	70	84.65	0.00	-294.91	1747.67
70	70	84.65	-0.45	-294.88	1747.67
70	71	86.23	0.01	-359.98	2270.73
71	71	86.23	0.01	-359.98	2270.73
71	72	87.80	0.01	-431.12	2925.84
72	72	87.80	-2.89	-431.08	2925.89
72	73	89.38	-2.44	-360.09	3537.68
73	73	89.38	-2.44	-360.09	3537.68
73	74	90.95	-1.84	-277.34	4043.20
74	74	90.95	0.00	-277.38	4043.11
74	75	92.53	0.00	-206.30	4434.52
75	75	92.53	0.00	-206.30	4434.52
75	76	94.10	0.00	-148.33	4712.65
76	76	94.10	0.00	-148.33	4712.65
76	77	95.68	0.00	-77.48	4881.86
77	77	95.68	0.00	-77.48	4881.86

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.IPF75B.MZ+

Rotura Mz+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	-5.78	4935.26
78	78	97.25	0.00	-5.78	4935.26
78	79	98.83	0.00	76.49	4883.47
79	79	98.83	0.00	76.49	4883.47
79	80	100.40	0.00	147.33	4715.83
80	80	100.40	0.00	147.33	4715.83
80	81	101.98	0.00	205.30	4439.34
81	81	101.98	0.00	205.30	4439.34
81	82	103.55	0.00	276.37	4049.52
82	82	103.55	-1.81	276.36	4049.59
82	83	105.13	-2.42	359.10	3545.65
83	83	105.13	-2.42	359.10	3545.65
83	84	106.70	-2.82	426.87	2937.24
84	84	106.70	-0.01	426.87	2937.19
84	85	108.28	-0.01	379.49	2292.23
85	85	108.28	-0.01	379.49	2292.23
85	86	109.85	-0.48	296.92	1739.26
86	86	109.85	0.00	296.97	1739.26
86	87	111.43	0.00	258.07	1309.68
87	87	111.43	0.00	258.07	1309.68
87	88	112.00	0.00	247.74	1169.74
88	88	112.00	0.00	247.74	1169.74
88	89	113.00	0.00	195.35	938.39
89	1089	113.00	0.00	-206.75	938.39
89	90	114.00	0.00	-259.11	1181.28
90	90	114.00	0.00	-259.11	1181.28
90	91	114.58	0.00	-265.83	1327.72
91	91	114.58	0.00	-265.83	1327.72
91	92	116.15	0.00	-304.47	1770.20
92	92	116.15	-0.52	-304.43	1770.20
92	93	117.73	-0.05	-386.09	2331.48
93	93	117.73	-0.05	-386.09	2331.48
93	94	119.30	-0.05	-420.58	2977.17
94	94	119.30	-2.78	-420.56	2977.24
94	95	120.88	-2.37	-352.80	3575.81
95	95	120.88	-2.37	-352.80	3575.81
95	96	122.45	-1.76	-270.05	4069.87
96	96	122.45	0.00	-270.07	4069.80
96	97	124.03	0.00	-199.00	4449.71
97	97	124.03	0.00	-199.00	4449.71
97	98	125.60	0.00	-141.01	4716.38
98	98	125.60	0.00	-141.01	4716.38
98	99	127.18	0.00	-70.20	4874.08
99	99	127.18	0.00	-70.20	4874.08
99	100	128.75	0.00	1.49	4916.04
100	100	128.75	0.00	1.49	4916.04
100	101	130.33	0.00	83.77	4852.73
101	101	130.33	0.00	83.77	4852.73
101	102	131.90	0.00	154.63	4673.62
102	102	131.90	0.00	154.63	4673.62
102	103	133.48	0.00	212.56	4385.67

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.MZ+

Rotura Mz+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	212.56	4385.67
103	104	135.05	0.00	283.68	3984.31
104	104	135.05	-1.89	283.67	3984.40
104	105	136.63	-2.45	366.39	3469.11
105	105	136.63	-2.45	366.39	3469.11
105	106	138.20	-2.98	437.39	2847.37
106	106	138.20	0.05	437.40	2847.31
106	107	139.78	0.05	350.00	2201.08
107	107	139.78	0.05	350.00	2201.08
107	108	141.35	-0.41	271.22	1691.17
108	108	141.35	0.00	271.27	1691.17
108	109	142.93	0.00	252.35	1283.96
109	109	142.93	0.00	252.35	1283.96
109	110	143.50	0.00	217.39	1147.62
110	110	143.50	0.00	217.39	1147.62
110	111	144.50	0.00	193.01	920.03
111	1111	144.50	0.00	-134.90	920.03
111	112	145.50	0.00	-164.38	1084.53
112	112	145.50	0.00	-164.38	1084.53
112	113	145.68	0.00	-178.63	1114.37
113	113	145.68	0.00	-178.63	1114.37
113	114	146.85	0.00	-209.90	1339.11
114	114	146.85	0.02	-209.91	1339.11
114	115	148.03	0.16	-303.40	1634.50
115	115	148.03	0.16	-303.40	1634.50
115	116	149.20	0.16	-255.71	1969.13
116	116	149.20	-2.11	-255.67	1969.20
116	117	150.38	-2.30	-258.61	2269.49
117	117	150.38	-2.30	-258.61	2269.49
117	118	151.55	-1.86	-208.73	2551.86
118	118	151.55	0.00	-208.76	2551.81
118	119	152.73	0.00	-156.20	2773.13
119	119	152.73	0.00	-156.20	2773.13
119	120	153.90	0.00	-114.41	2930.37
120	120	153.90	0.00	-114.41	2930.37
120	121	155.08	0.00	-51.62	3028.49
121	121	155.08	0.00	-51.62	3028.49
121	122	156.25	0.00	-8.96	3064.23
122	122	156.25	0.00	-8.96	3064.23
122	123	157.43	0.00	55.30	3040.68
123	123	157.43	0.00	55.30	3040.68
123	124	158.60	0.00	95.63	2950.97
124	124	158.60	0.00	95.63	2950.97
124	125	159.78	0.00	148.52	2800.21
125	125	159.78	0.00	148.52	2800.21
125	126	160.95	0.00	201.08	2589.14
126	126	160.95	0.00	201.08	2589.14
126	127	162.13	0.00	266.27	2314.46
127	127	162.13	0.00	266.27	2314.46
127	128	163.30	0.00	319.38	1975.63
128	128	163.30	0.00	319.38	1975.63

CÁLCULO TENSIONAL

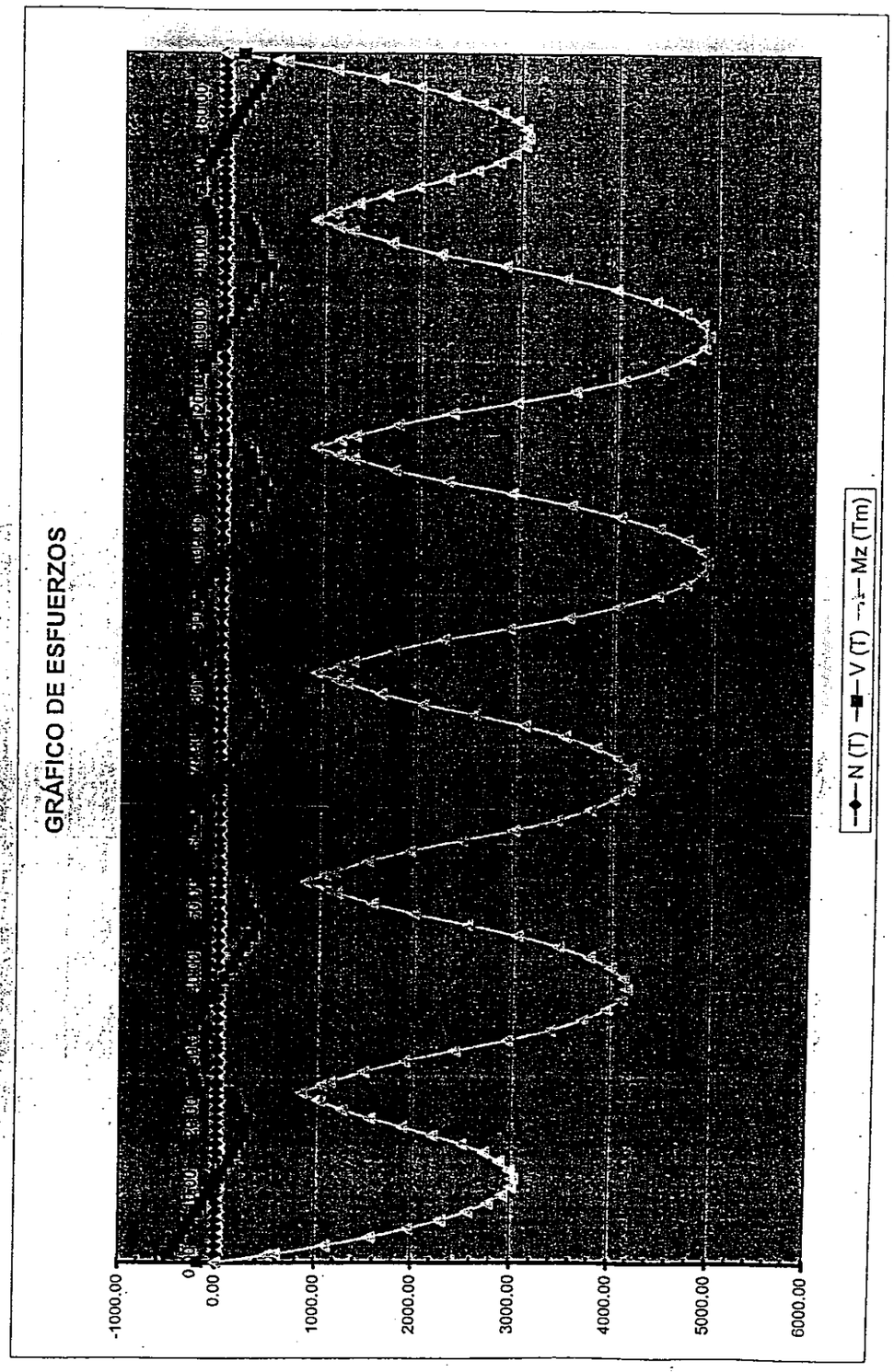
Hipótesis de cálculo:
Rotura.Tinf.IPF75B.MZ+

Rotura Mz+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	372.29	1576.34
129	129	164.48	0.00	372.29	1576.34
129	130	165.65	0.00	424.85	1118.24
130	130	165.65	0.00	424.85	1118.24
130	131	166.83	0.00	477.51	594.43
131	131	166.83	0.00	477.51	594.43
131	132	167.00	0.00	485.51	510.85
132	132	167.00	0.00	485.51	510.85
132	133	168.00	0.00	178.03	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.IPF75B.MZ-

Dominante IPF75B.EnvTrenGen.MZ-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-177.11	0.00
1	2	1.00	0.00	-111.14	121.66
2	2	1.00	0.00	-111.14	121.66
2	3	1.18	0.00	-108.63	140.90
3	3	1.18	0.00	-108.63	140.90
3	4	2.35	0.00	-91.77	258.65
4	4	2.35	0.00	-91.77	258.65
4	5	3.53	0.00	-74.93	356.57
5	5	3.53	0.00	-74.93	356.57
5	6	4.70	0.00	-58.05	434.68
6	6	4.70	0.00	-58.05	434.68
6	7	5.88	0.00	-41.20	493.00
7	7	5.88	0.00	-41.20	493.00
7	8	7.05	0.00	-24.35	531.52
8	8	7.05	0.00	-24.35	531.52
8	9	8.23	0.00	-7.50	550.24
9	9	8.23	0.00	-7.50	550.24
9	10	9.40	0.00	9.36	549.16
10	10	9.40	0.00	9.36	549.16
10	11	10.58	0.00	26.21	528.25
11	11	10.58	0.00	26.21	528.25
11	12	11.75	0.00	43.07	487.54
12	12	11.75	0.00	43.07	487.54
12	13	12.93	0.00	59.93	427.05
13	13	12.93	0.00	59.93	427.05
13	14	14.10	0.00	76.79	346.70
14	14	14.10	0.00	76.79	346.70
14	15	15.28	0.00	93.64	246.58
15	15	15.28	0.00	93.64	246.58
15	16	16.45	0.00	110.49	126.67
16	16	16.45	-1.50	110.49	126.71
16	17	17.63	-1.77	130.29	-13.43
17	17	17.63	-1.77	130.29	-13.43
17	18	18.80	-2.68	202.16	-201.04
18	18	18.80	-0.17	202.16	-201.09
18	19	19.98	-0.17	249.77	-457.37
19	19	19.98	-0.17	249.77	-457.37
19	20	21.15	-0.36	359.49	-822.66
20	20	21.15	0.00	359.54	-822.66
20	21	22.33	0.00	486.43	-1322.68
21	21	22.33	0.00	486.43	-1322.68
21	22	22.50	0.00	510.53	-1410.46
22	22	22.50	0.00	510.53	-1410.46
22	23	23.50	0.00	582.97	-1956.82
23	1023	23.50	0.00	-655.43	-1956.82
23	24	24.50	0.00	-570.32	-1339.76
24	24	24.50	0.00	-570.32	-1339.76
24	25	24.95	0.00	-535.00	-1086.18
25	25	24.95	0.00	-535.00	-1086.18
25	26	26.40	0.00	-400.21	-400.07
26	26	26.40	0.11	-400.21	-400.07

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.MZ-

Dominante IPF75B.EnvTrenGen.MZ-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.04	-289.98	95.46
27	27	27.85	-0.04	-289.98	95.46
27	28	29.30	-0.04	-120.00	389.73
28	28	29.30	-1.41	-120.00	389.77
28	29	30.75	-1.14	-96.30	545.47
29	29	30.75	-1.14	-96.30	545.47
29	30	32.20	-0.91	-75.51	670.01
30	30	32.20	0.00	-75.50	669.95
30	31	33.65	0.00	-54.69	764.29
31	31	33.65	0.00	-54.69	764.29
31	32	35.10	0.00	-33.91	828.53
32	32	35.10	0.00	-33.91	828.53
32	33	36.55	0.00	-13.10	862.55
33	33	36.55	0.00	-13.10	862.55
33	34	38.00	0.00	16.58	855.55
34	34	38.00	0.00	16.58	855.55
34	35	39.45	0.00	37.38	816.45
35	35	39.45	0.00	37.38	816.45
35	36	40.90	0.00	58.18	747.15
36	36	40.90	0.00	58.18	747.15
36	37	42.35	0.00	78.97	647.72
37	37	42.35	0.00	78.97	647.72
37	38	43.80	0.00	99.77	518.09
38	38	43.80	-1.14	99.78	518.16
38	39	45.25	-1.37	120.58	358.43
39	39	45.25	-1.37	120.58	358.43
39	40	46.70	-1.65	144.24	167.83
40	40	46.70	0.04	144.25	167.78
40	41	48.15	0.04	273.76	-124.39
41	41	48.15	0.04	273.76	-124.39
41	42	49.60	0.17	384.47	-607.31
42	42	49.60	0.00	384.46	-607.31
42	43	51.05	0.00	531.73	-1270.38
43	43	51.05	0.00	531.73	-1270.38
43	44	51.50	0.00	565.96	-1520.66
44	44	51.50	0.00	565.96	-1520.66
44	45	52.50	0.00	653.44	-2137.15
45	1045	52.50	0.00	-659.62	-2137.15
45	46	53.50	0.00	-571.90	-1513.19
46	46	53.50	0.00	-571.90	-1513.19
46	47	53.95	0.00	-537.59	-1259.78
47	47	53.95	0.00	-537.59	-1259.78
47	48	55.40	0.00	-389.36	-584.50
48	48	55.40	0.13	-389.37	-584.50
48	49	56.85	0.00	-286.96	-92.07
49	49	56.85	0.00	-286.96	-92.07
49	50	58.30	0.00	-125.59	200.77
50	50	58.30	-1.50	-125.57	200.82
50	51	59.75	-1.23	-101.99	364.87
51	51	59.75	-1.23	-101.99	364.87
51	52	61.20	-0.98	-81.19	497.68

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.MZ-

Dominante IPF75B.EnvTrenGen.MZ-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-81.18	497.62
52	53	62.65	0.00	-60.39	600.25
53	53	62.65	0.00	-60.39	600.25
53	54	64.10	0.00	-39.58	672.76
54	54	64.10	0.00	-39.58	672.76
54	55	65.55	0.00	-18.80	715.08
55	55	65.55	0.00	-18.80	715.08
55	56	67.00	0.00	12.90	717.50
56	56	67.00	0.00	12.90	717.50
56	57	68.45	0.00	33.71	683.70
57	57	68.45	0.00	33.71	683.70
57	58	69.90	0.00	54.49	619.75
58	58	69.90	0.00	54.49	619.75
58	59	71.35	0.00	75.30	525.63
59	59	71.35	0.00	75.30	525.63
59	60	72.80	0.00	96.10	401.34
60	60	72.80	-1.08	96.09	401.39
60	61	74.25	-1.33	116.90	246.97
61	61	74.25	-1.33	116.90	246.97
61	62	75.70	-1.59	140.66	59.74
62	62	75.70	0.00	140.66	59.69
62	63	77.15	0.00	274.62	-246.34
63	63	77.15	0.00	274.62	-246.34
63	64	78.60	0.14	393.52	-727.08
64	64	78.60	0.00	393.51	-727.08
64	65	80.05	0.00	510.56	-1386.48
65	65	80.05	0.00	510.56	-1386.48
65	66	80.50	0.00	574.69	-1633.15
66	66	80.50	0.00	574.69	-1633.15
66	67	81.50	0.00	661.67	-2253.20
67	1067	81.50	0.00	-702.84	-2253.20
67	68	82.50	0.00	-616.66	-1584.32
68	68	82.50	0.00	-616.66	-1584.32
68	69	83.08	0.00	-570.95	-1236.43
69	69	83.08	0.00	-570.95	-1236.43
69	70	84.65	0.00	-411.64	-459.89
70	70	84.65	0.12	-411.66	-459.89
70	71	86.23	-0.02	-300.55	103.82
71	71	86.23	-0.02	-300.55	103.82
71	72	87.80	-0.02	-135.74	407.57
72	72	87.80	-1.47	-135.73	407.61
72	73	89.38	-1.23	-113.14	603.58
73	73	89.38	-1.23	-113.14	603.58
73	74	90.95	-0.97	-90.54	763.99
74	74	90.95	0.00	-90.55	763.92
74	75	92.53	0.00	-67.96	888.75
75	75	92.53	0.00	-67.96	888.75
75	76	94.10	0.00	-45.36	977.97
76	76	94.10	0.00	-45.36	977.97
76	77	95.68	0.00	-22.77	1031.63
77	77	95.68	0.00	-22.77	1031.63

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.MZ-
Dominante IPF75B.EnvTrenGen.MZ-. Tinf
[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	9.31	1041.44
78	78	97.25	0.00	9.31	1041.44
78	79	98.83	0.00	31.90	1008.99
79	79	98.83	0.00	31.90	1008.99
79	80	100.40	0.00	54.50	940.92
80	80	100.40	0.00	54.50	940.92
80	81	101.98	0.00	77.09	837.34
81	81	101.98	0.00	77.09	837.34
81	82	103.55	0.00	99.67	698.12
82	82	103.55	-1.06	99.68	698.17
82	83	105.13	-1.31	122.26	523.41
83	83	105.13	-1.31	122.26	523.41
83	84	106.70	-1.57	148.10	311.28
84	84	106.70	0.02	148.09	311.24
84	85	108.28	0.02	289.16	-15.43
85	85	108.28	0.02	289.16	-15.43
85	86	109.85	0.16	418.52	-573.96
86	86	109.85	0.00	418.52	-573.96
86	87	111.43	0.00	545.79	-1340.87
87	87	111.43	0.00	545.79	-1340.87
87	88	112.00	0.00	615.89	-1683.81
88	88	112.00	0.00	615.89	-1683.81
88	89	113.00	0.00	708.05	-2355.50
89	1089	113.00	0.00	-703.96	-2355.50
89	90	114.00	0.00	-611.89	-1688.21
90	90	114.00	0.00	-611.89	-1688.21
90	91	114.58	0.00	-541.95	-1348.56
91	91	114.58	0.00	-541.95	-1348.56
91	92	116.15	0.00	-414.96	-588.32
92	92	116.15	0.17	-414.99	-588.32
92	93	117.73	0.04	-286.47	-36.10
93	93	117.73	0.04	-286.47	-36.10
93	94	119.30	0.04	-158.31	295.89
94	94	119.30	-1.69	-158.30	295.95
94	95	120.88	-1.41	-132.45	524.12
95	95	120.88	-1.41	-132.45	524.12
95	96	122.45	-1.17	-109.87	714.96
96	96	122.45	0.00	-109.87	714.90
96	97	124.03	0.00	-87.28	870.17
97	97	124.03	0.00	-87.28	870.17
97	98	125.60	0.00	-64.69	989.83
98	98	125.60	0.00	-64.69	989.83
98	99	127.18	0.00	-42.09	1073.91
99	99	127.18	0.00	-42.09	1073.91
99	100	128.75	0.00	-19.51	1122.41
100	100	128.75	0.00	-19.51	1122.41
100	101	130.33	0.00	3.08	1135.36
101	101	130.33	0.00	3.08	1135.36
101	102	131.90	0.00	34.26	1104.01
102	102	131.90	0.00	34.26	1104.01
102	103	133.48	0.00	56.86	1032.24

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.MZ-
Dominante IPF75B.EnvTrenGen.MZ-. Tinf
[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	56.86	1032.24
103	104	135.05	0.00	79.45	924.89
104	104	135.05	-0.87	79.46	924.96
104	105	136.63	-1.11	102.05	782.03
105	105	136.63	-1.11	102.05	782.03
105	106	138.20	-1.38	124.64	603.51
106	106	138.20	-0.04	124.64	603.47
106	107	139.78	-0.04	305.73	298.38
107	107	139.78	-0.04	305.73	298.38
107	108	141.35	0.10	425.82	-270.73
108	108	141.35	0.00	425.83	-270.73
108	109	142.93	0.00	570.89	-1062.65
109	109	142.93	0.00	570.89	-1062.65
109	110	143.50	0.00	638.12	-1409.07
110	110	143.50	0.00	638.12	-1409.07
110	111	144.50	0.00	700.71	-2077.41
111	1111	144.50	0.00	-588.76	-2077.41
111	112	145.50	0.00	-509.67	-1528.61
112	112	145.50	0.00	-509.67	-1528.61
112	113	145.68	0.00	-462.79	-1441.65
113	113	145.68	0.00	-462.79	-1441.65
113	114	146.85	0.00	-365.64	-951.42
114	114	146.85	-0.36	-365.59	-951.42
114	115	148.03	-0.17	-243.52	-592.84
115	115	148.03	-0.17	-243.52	-592.84
115	116	149.20	-0.17	-209.13	-332.36
116	116	149.20	-2.75	-209.14	-332.31
116	117	150.38	-1.83	-136.21	-118.29
117	117	150.38	-1.83	-136.21	-118.29
117	118	151.55	-1.57	-116.33	30.21
118	118	151.55	0.00	-116.35	30.16
118	119	152.73	0.00	-99.49	156.98
119	119	152.73	0.00	-99.49	156.98
119	120	153.90	0.00	-82.63	263.98
120	120	153.90	0.00	-82.63	263.98
120	121	155.08	0.00	-65.78	351.19
121	121	155.08	0.00	-65.78	351.19
121	122	156.25	0.00	-48.92	418.61
122	122	156.25	0.00	-48.92	418.61
122	123	157.43	0.00	-32.08	466.20
123	123	157.43	0.00	-32.08	466.20
123	124	158.60	0.00	-15.22	494.01
124	124	158.60	0.00	-15.22	494.01
124	125	159.78	0.00	1.64	502.00
125	125	159.78	0.00	1.64	502.00
125	126	160.95	0.00	18.49	490.14
126	126	160.95	0.00	18.49	490.14
126	127	162.13	0.00	35.35	458.54
127	127	162.13	0.00	35.35	458.54
127	128	163.30	0.00	52.20	407.13
128	128	163.30	0.00	52.20	407.13

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.IPF75B.MZ-

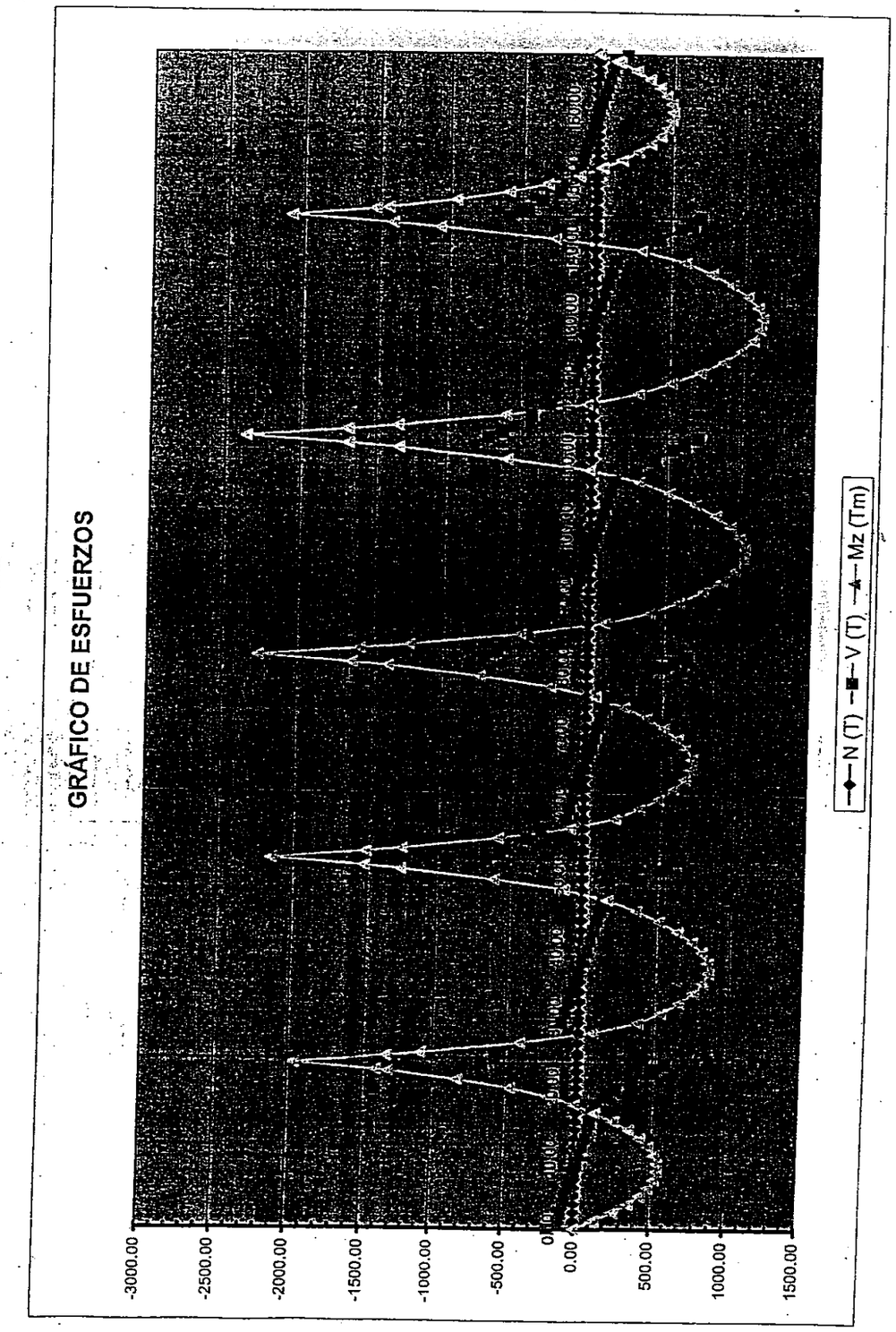
Dominante IPF75B.EnvTrenGen.MZ-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	69.06	335.89
129	129	164.48	0.00	69.06	335.89
129	130	165.65	0.00	85.91	244.85
130	130	165.65	0.00	85.91	244.85
130	131	166.83	0.00	102.77	134.01
131	131	166.83	0.00	102.77	134.01
131	132	167.00	0.00	105.29	115.79
132	132	167.00	0.00	105.29	115.79
132	133	168.00	0.00	178.03	0.00

10/09/01



Rotura.xls

Subanejo 8

MOMENTOS ÚLTIMOS DE LAS SECCIONES

SUBANEJO 8. MOMENTOS ÚLTIMOS DE LAS SECCIONES

ÍNDICE

Subanejo 8. Momentos últimos de las secciones

Subanejo 8.1. Momentos últimos de las secciones sin refuerzo

Subanejo 8.2. Momentos últimos de las secciones con refuerzo

Subanejo 8.1

MOMENTOS ÚLTIMOS DE LAS SECCIONES SIN REFUERZO

MOMENTOS ÚLTIMOS DE LAS SECCIONES SIN REFUERZO

SECCION	CA		CBC		ST	
	Mu^+	Mu^-	Mu^+	Mu^-	Mu^+	Mu^-
A	170.9	-82.4	216.3	-593.3	218.7	-821.7
B	1177.7	-252.1	1457.5	-748.1	1458.4	-973.2
C	1838.9	-237.2	2643.6	-729.9	2649.3	-953.9
D	1963.5	-237.1	2624.7	-646.5	2630.8	-728.1
E	1188.5	-252.1	1469.5	-2550,3	1470.9	-2980.1
F	542.4	-919.5	818.1	-3157.9	819.9	-3572.7
G	2393.3	-233.1	3564.8	-639.9	3577.1	-721.0
H	2095.6	-233.5	3594.7	-723.5	3608.3	-946.4
I	1348.4	-249.4	1670.9	-2544.6	1672.3	-2973.8
J	2154.6	-235.8	3002.9	-644.3	3010.7	-725.6
K	2583.2	-227.8	4229.6	-631.9	4323.4	-712.4
L	2233.3	-228.6	4347.0	-715.9	4367.5	-937.4

royecto:
ORGES BLANQUES

eccion:ROTU A

ATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1 (HO)	500.0	1.40	367733	2.25	1.35
2 (HO)	300.0	1.50	319387	2.25	1.35
3 (RD)	5100.0	1.10	2100000		
4 (PR)	17100.0	1.10	1900000		
5 (RD)	5100.0	1.15	2100000		
6 (PR)	8350.0	1.10	1650000		

ECCIONES PARCIALES

um	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	34.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
9	2	480.0	30.2	4.8	C*	0
	2	220.0	23.2	11.8	C*	0
	4	0.0	13.3	230.0	*T	0
	4	0.0	13.3	40.0	*T	0
	3	18.0	12.0	220.0	CT	0
	3	8.0	12.0	42.5	CT	0
	5	24.0	12.0	7.3	CT	0
	5	24.0	12.0	26.5	CT	0
	5	11.0	12.0	14.3	CT	0
	5	11.0	12.0	26.5	CT	0
1	3	0.0	25.0	230.0	CT	0

ϕ 12 a 20cm /cara

CCIONES INTERMEDIAS

m.	Codigo	Componentes
	HO	1 2 3 4 5 6 7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

C PLETA

o	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
ura +	(0)	1040.1	15.76	900471.8
	(1)	605.6	22.18	855757.3
	(2)	704.8	20.16	869290.9
ura -	(0)	1214.5	210.35	3455545.5
	(1)	496.8	186.29	2980402.8
	(2)	624.2	194.66	3142433.9
imple	(0)	5436.0	84.03	39648919.4
	(1)	1747.8	82.93	12709822.1
	(2)	2375.6	83.36	17295880.4
imple	(0)	108.6	58.52	669255.7
	(1)	108.6	58.52	669255.7
	(2)	108.6	58.52	669255.7

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

NALISIS EN ROTURA(ELASTOPLASTICO)*

ulo Secci n: ROTU A

TUDIO SECCION CA

alisis con Resistencia de materiales MINORADAS
. Ultima Acero Estructural(COMPRESION)(%): 2.50
. Ultima Acero Estructural(TRACCION)(%): 2.50
ormacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
ormacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

m.T): 170.9 Xu(cm.): 47.5

Tn.): .2 Qu(Tn.): 0.0

ormaciones Ultimas: Ecmx= -.00067 Etmx= .01000
pe la fibra inferior de la S.parcial 9

EXION PURA NEGATIVA:

m.T): -82.4 Xu(cm.): 230.0

Tn.): .6 Qu(Tn.): 0.0

ormaciones Ultimas: Ecmx= -.00026 Etmx= .01000
pe la fibra superior de la S.parcial 1

IPRESION SIMPLE(Rigido/Plastico):

Tn.): -4204.3 aplicado en Yo(cm)= 165.5

RACCION SIMPLE(Rigido/Plastico):

Tn.): 136.3 aplicado en Yo(cm)= 166.0

TANTE ULTIMO(Rigido/Plastico):

Tn.): 0.0 Ru(Kg/cm): 0.0

(cm): 0.0 Xv2(cm): 0.0
arciales resistentes: Rcu(Kg/cm):

NALISIS EN ROTURA(ELASTOPLASTICO)*

ulo Secci n: ROTU A

ESTUDIO SECCION CBC

_alisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[╔*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 216.3 Xu(cm.): 13.8

Nu(Tn.): .7 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00041 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -593.3 Xu(cm.): 223.2

,Tn.): 0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00054 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -6909.3 aplicado en Yo(cm)= 108.4

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 377.1 aplicado en Yo(cm)= 71.2

CORTANTE ULTIMO(Rigido/Plastico):

Tu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Coef.parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Título Sección: ROTU A

ESTUDIO SECCION COMPLETA

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Coeficiente Ideal Fluencia[╔*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

M(m.T): 218.7 Xu(cm.): 14.1

N(Tn.): .6 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00042 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

(m.T): -821.7 Xu(cm.): 221.2

(Tn.): .1 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00064 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -7887.4 aplicado en Yo(cm)= 97.9

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 487.4 aplicado en Yo(cm)= 59.8

CORTANTE ULTIMO(Rigido/Plastico):

Tu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Coef.parciales resistentes: Rcu(Kg/cm):

Proyecto:
BORGES BLANQUES

Seccion:ROTU B

MATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1(HO)	500.0	1.40	367733	2.25	1.35
2(HO)	300.0	1.50	319387	2.25	1.35
3(RD)	5100.0	1.10	2100000		
4(PR)	17100.0	1.10	1900000		
5(RD)	5100.0	1.15	2100000		
6(PR)	8350.0	1.10	1650000		

SECCIONES PARCIALES

Num	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	34.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
0	2	480.0	30.2	4.8	C*	0
1	2	220.0	23.2	11.8	C*	0
2	4	24.0	13.3	230.0	*T	0
3	4	4.0	13.3	40.0	*T	0
4	3	18.0	12.0	220.0	CT	0
5	3	8.0	12.0	42.5	CT	0
6	5	24.0	12.0	7.3	CT	0
7	5	24.0	12.0	26.5	CT	0
8	5	11.0	12.0	14.3	CT	0
9	5	11.0	12.0	26.5	CT	0
0	3	0.0	25.0	230.0	CT	0

ϕ12 a 20cm /cara

SECCIONES INTERMEDIAS

Num.	Codigo	Componentes
-	HO	1 2 3 4 5 6 7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

COMPLETA

Tipo	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	1601.3	20.69	2262155.8
	(1)	910.4	30.40	2113222.8
	(2)	1064.1	27.32	2159230.2
pura -	(0)	1251.6	210.16	3612723.4
	(1)	529.9	187.43	3145743.2
	(2)	658.2	195.13	3300633.3
Simple	(0)	5471.2	84.80	40303802.5
	(1)	1783.0	85.31	13367106.4
	(2)	2410.8	85.11	17952227.2
Simple	(0)	143.8	94.01	1383711.9
	(1)	143.8	94.01	1383711.9
	(2)	143.8	94.01	1383711.9

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Titulo Secciπn: ROTU B

PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 532.15Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CA

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

(m.T): 1177.7 Xu(cm.): 78.9

(Tn.): -.6 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00286 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

(m.T): -252.1 Xu(cm.): 222.7

(Tn.): .3 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00081 Etmx= .01000
Rompe la fibra superior de la S.parcial 1

COMPRESION SIMPLE(Rigido/Plastico):

(Tn.): -4204.3 aplicado en Yo(cm)= 165.5

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 741.1 aplicado en Yo(cm)= 196.6

CORTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Nº parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Título Sección: ROTU B

PRESOLICITACIONES ELASTICAS
Análisis SIN FISURACION
Pretensado: 532.15Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CBC

Análisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[Φ*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

M(m.T): 1457.5 Xu(cm.): 25.6

Q(Tn.): 0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00099 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

M(m.T): -748.1 Xu(cm.): 218.7

Q(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00092 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

N(Tn.): -6909.3 aplicado en Yo(cm)= 108.4

TRACCION SIMPLE(Rigido/Plastico):

N(Tn.): 981.8 aplicado en Yo(cm)= 152.7

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Yo(cm): 0.0 Xv2(cm): 0.0
Parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Título Sección: ROTU B

PRESOLICITACIONES ELASTICAS
Análisis SIN FISURACION
Pretensado: 532.15Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION COMPLETA

Análisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[Φ*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

M(m.T): 1458.4 Xu(cm.): 23.8

Q(Tn.): .8 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00090 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

M(m.T): -973.2 Xu(cm.): 217.1

Q(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00100 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

N(Tn.): -7887.4 aplicado en Yo(cm)= 97.9

TRACCION SIMPLE(Rigido/Plastico):

N(Tn.): 1092.1 aplicado en Yo(cm)= 139.4

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Yo(cm): 0.0 Xv2(cm): 0.0
Parciales resistentes: Rcu(Kg/cm):

Proyecto:
B^RGES BLANQUES

Seccion:ROTU C

MATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1(HO)	500.0	1.40	367733	2.25	1.35
2(HO)	300.0	1.50	319387	2.25	1.35
3(RD)	5100.0	1.10	2100000		
4(PR)	17100.0	1.10	1900000		
5(RD)	5100.0	1.15	2100000		
6(PR)	8350.0	1.10	1650000		

SECCIONES PARCIALES

Num	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	34.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
0	2	480.0	30.2	4.8	C*	0
1	2	220.0	23.2	11.8	C*	0
2	4	48.0	13.3	229.4	*T	0
3	4	4.0	13.3	40.0	*T	0
4	3	18.0	12.0	220.0	CT	0
5	3	8.0	12.0	42.5	CT	0
6	5	24.0	12.0	7.3	CT	0
7	5	24.0	12.0	26.5	CT	0
8	5	11.0	12.0	14.3	CT	0
9	5	11.0	12.0	26.5	CT	0
0	3	0.0	25.0	230.0	CT	0

ϕ12 a 20cm

ECCIONES INTERMEDIAS

Num.	Codigo	Componentes
	HO	1 2 3 4 5 6 7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

C..PLETA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
ura +	(0)	2000.7	24.16	3553820.1
	(1)	1096.4	36.22	3272100.5
	(2)	1322.8	32.36	3359637.6
ura -	(0)	1277.3	210.61	3623627.3
	(1)	555.9	189.70	3196021.4
	(2)	684.6	196.64	3334510.5
Simple	(0)	5501.4	85.59	40931242.4
	(1)	1813.2	87.71	13983102.4
	(2)	2440.9	86.90	18572611.5
Simple	(0)	173.9	117.50	1840835.7
	(1)	173.9	117.50	1840835.7
	(2)	173.9	117.50	1840835.7

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

NALISIS EN ROTURA(ELASTOPLASTICO)*

culo Secci n: ROTU C

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
etensado: 988.29Tn.
odas las Armaduras activas a .80*Fyk)

TUDIO SECCION CA

alisis con Resistencia de materiales MINORADAS
E. Ultima Acero Estructural(COMPRESION)(%): 2.50
E. Ultima Acero Estructural(TRACCION)(%): 2.50
formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 1838.9 Xu(cm.): 128.5

(Tn.): .7 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00350 Etmx= .00366
pe la fibra superior de la S.parcial 1

EXION PURA NEGATIVA:

(m.T): -237.2 Xu(cm.): 220.2

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00111 Etmx= .01000
pe la fibra superior de la S.parcial 1

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -4204.3 aplicado en Yo(cm)= 165.5

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 1259.4 aplicado en Yo(cm)= 210.1

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)

Título Sección: ROTU C

* PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 988.29Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CBC

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 2643.6 Xu(cm.): 32.7

Nu(Tn.): 0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00138 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -729.9 Xu(cm.): 215.9

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00121 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -6909.3 aplicado en Yo(cm)= 108.4

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 1500.1 aplicado en Yo(cm)= 179.2

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Ancho parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)

Título Sección: ROTU C

* PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 988.29Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION COMPLETA

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 2649.3 Xu(cm.): 29.5

Nu(Tn.): .1 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00120 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -953.9 Xu(cm.): 214.2

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00130 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -7887.4 aplicado en Yo(cm)= 97.9

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 1610.5 aplicado en Yo(cm)= 168.4

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Ancho parciales resistentes: Rcu(Kg/cm):

Proyecto:
BORGES BLANQUES

Seccion:ROTU D

MATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1(HO)	500.0	1.40	367733	2.25	1.35
2(HO)	300.0	1.50	319387	2.25	1.35
3(RD)	5100.0	1.10	2100000		
4(PR)	17100.0	1.10	1900000		
5(RD)	5100.0	1.15	2100000		
6(PR)	8350.0	1.10	1650000		

SECCIONES PARCIALES

Num	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
1	1	46.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
10	2	387.2	30.2	4.8	C*	0
11	2	67.0	25.2	9.9	C*	0
12	4	48.0	13.3	229.4	*T	0
13	4	4.0	13.3	40.0	*T	0
14	3	18.0	12.0	220.0	CT	0
15	3	8.0	12.0	42.5	CT	0
16	5	20.0	12.0	7.3	CT	0
17	5	20.0	12.0	26.5	CT	0
18	5	4.0	12.0	14.3	CT	0
19	5	4.0	12.0	26.5	CT	0
20	3	0.0	25.0	230.0	CT	0

ϕ 12 a 20cm

ECCIONES INTERMEDIAS

um.	Codigo	Componentes
1	HO	1 2 3 4 5 6 7 8 9
2	PI	12
3	PS	13
4	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
5	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
6	HL	10 11

* CONSTANTES ESTATICAS *

PLETA

ipo	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
:pura +	(0)	1627.4	26.95	3494456.5
	(1)	809.4	41.91	3162226.2
	(2)	1027.9	36.89	3266756.1
pura -	(0)	1220.1	214.47	2697342.2
	(1)	528.1	198.01	2443157.8
	(2)	654.3	203.53	2525383.0
Simple	(0)	4912.7	101.30	37416402.8
	(1)	1614.8	103.38	12696116.4
	(2)	2176.2	102.58	16906047.9
Simple	(0)	149.1	133.82	1561788.9
	(1)	149.1	133.82	1561788.9
	(2)	149.1	133.82	1561788.9

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

NALISIS EN ROTURA(ELASTOPLASTICO)*

tulo Secci n: ROTU D

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
etensado: 988.29Tn.
odas las Armaduras activas a .80*Fyk)

TUDIO SECCION CA

alisis con Resistencia de materiales MINORADAS
f. Ultima Acero Estructural(COMPRESION)(%): 2.50
f. Ultima Acero Estructural(TRACCION)(%): 2.50
formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 1963.5 Xu(cm.): 107.6

(Tn.): .3 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00350 Etmx= .00585
mpe la fibra superior de la S.parcial 1

EXION PURA NEGATIVA:

(m.T): -237.1 Xu(cm.): 219.9

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00111 Etmx= .01000
mpe la fibra superior de la S.parcial 1

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -4867.3 aplicado en Yo(cm)= 160.2

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 1259.4 aplicado en Yo(cm)= 210.1

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

1(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)

-ículo Secci n: ROTU D

* PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 988.29Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CBC

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 2624.7 Xu(cm.): 36.3

Nu(Tn.): -.6 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00159 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -646.5 Xu(cm.): 216.1

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00118 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -7055.8 aplicado en Yo(cm)= 116.6

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 1460.0 aplicado en Yo(cm)= 183.6

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Nº parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Título Secci n: ROTU D

PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 988.29Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION COMPLETA

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 2630.8 Xu(cm.): 34.3

Nu(Tn.): 0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00147 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -728.1 Xu(cm.): 215.5

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00121 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -7382.4 aplicado en Yo(cm)= 112.4

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 1500.1 aplicado en Yo(cm)= 179.3

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Nº parciales resistentes: Rcu(Kg/cm):

Proyecto:
BORGES BLANQUES

seccion:ROTU E

MATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1(HO)	500.0	1.40	367733	2.25	1.35
2(HO)	300.0	1.50	319387	2.25	1.35
3(RD)	5100.0	1.10	2100000		
4(PR)	17100.0	1.10	1900000		
5(RD)	5100.0	1.15	2100000		
6(PR)	8350.0	1.10	1650000		

ECCIONES PARCIALES

um	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	46.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
0	2	387.2	30.2	4.8	C*	0
1	2	67.0	25.2	9.9	C*	0
2	4	24.0	13.3	230.0	*T	0
3	4	4.0	13.3	40.0	*T	0
4	3	18.0	12.0	220.0	CT	0
5	3	8.0	12.0	42.5	CT	0
6	5	31.0	25.0	7.3	CT	0
7	5	31.0	20.0	26.5	CT	0
8	5	6.0	25.0	14.3	CT	0
9	5	6.0	20.0	26.5	CT	0
0	3	0.0	25.0	230.0	CT	0

ϕ 25 a 12'5cm CSUP
ϕ 20 a 12'5cm CINF

ICCIONES INTERMEDIAS

um.	Codigo	Componentes
	HO	1 2 3 4 5 6 7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

SECCION COMPLETA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	1478.7	21.71	2260504.0
	(1)	875.8	29.70	2138576.1
	(2)	1004.9	27.40	2171985.4
pura -	(0)	1709.7	183.67	10731440.2
	(1)	879.7	142.24	7880953.1
	(2)	1034.8	154.77	8733557.4
Simple	(0)	5126.2	96.51	38581959.8
	(1)	1828.2	89.70	13740299.0
	(2)	2389.6	92.19	17994351.2
Simple	(0)	362.5	46.90	1929926.5
	(1)	362.5	46.90	1929926.5
	(2)	362.5	46.90	1929926.5

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

NALISIS EN ROTURA(ELASTOPLASTICO)*

tulo Secciπn: ROTU E

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
etensado: 532.15Tn.
odas las Armaduras activas a .80*Fyk)

TUDIO SECCION CA

alisis con Resistencia de materiales MINORADAS
f. Ultima Acero Estructural(COMPRESION)(%): 2.50
f. Ultima Acero Estructural(TRACCION)(%): 2.50
formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 1188.5 Xu(cm.): 72.7

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00236 Etmx= .01000
mpe la fibra inferior de la S.parcial 9

EXION PURA NEGATIVA:

(m.T): -252.1 Xu(cm.): 222.5

(Tn.): 0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00081 Etmx= .01000
mpe la fibra superior de la S.parcial 2

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -4867.3 aplicado en Yo(cm)= 160.2

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 741.1 aplicado en Yo(cm)= 196.6

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

1(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)

-ftulo Secci╞n: ROTU E

* PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 532.15Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CBC

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[╥*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 1469.5 Xu(cm.): 24.8

Nu(Tn.): 0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00095 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -2550.3 Xu(cm.): 205.0

Nu(Tn.): -.2 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00164 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -7961.9 aplicado en Yo(cm)= 105.1

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 1847.8 aplicado en Yo(cm)= 88.4

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
S.parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)

-ftulo Secci╞n: ROTU E

* PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 532.15Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION COMPLETA

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[╥*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 1470.9 Xu(cm.): 24.0

Nu(Tn.): 0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00091 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -2980.1 Xu(cm.): 200.9

Nu(Tn.): -.2 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00188 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -8462.6 aplicado en Yo(cm)= 100.1

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 2062.0 aplicado en Yo(cm)= 81.3

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
S.parciales resistentes: Rcu(Kg/cm):

Proyecto:
BORGES BLANQUES

Seccion: JUNTA P-4 = ℓσ↻ F

MATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1 (HO)	500.0	1.40	367733	2.25	1.35
2 (HO)	300.0	1.50	319387	2.25	1.35
3 (RD)	5100.0	1.10	2100000		
4 (PR)	17100.0	1.10	1900000		
5 (RD)	5100.0	1.15	2100000		
6 (PR)	8350.0	1.10	1650000		

SECCIONES PARCIALES

um	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	111.5	150.0	35.0	C*	0
2	1	230.0	50.0	185.0	C*	0
3	1	98.0	18.0	217.0	C*	0
4	1	13.5	6.0	179.0	C*	0
5	1	37.5	133.3	35.0	C*	0
6	2	0.0	0.0	0.0	C*	0
7	6	2.0	40.0	50.0	*T	0
8	6	2.0	40.0	70.0	*T	0
9	6	2.0	40.0	175.0	*T	0
0	6	2.0	40.0	155.0	*T	0
1	5	31.0	25.0	7.3	CT	0
2	5	31.0	20.0	26.5	CT	0
3	5	6.0	25.0	14.3	CT	0
4	5	6.0	20.0	26.5	CT	0
5	2	387.0	30.2	4.8	C*	0
6	2	67.0	25.2	9.9	C*	0

ϕ25 a 125 c/c CSUP
ϕ20 a 125 c/c CINF

SECCIONES INTERMEDIAS

	Codigo	Componentes
	CA	1 2 3 4 5 7 8 9 10
	POS	7 8 9 10
	HC	1 2 3 4 5
	CBC	1 2 3 4 5 7 8 9 10 11 12 15
	HL	15 16

* CONSTANTES ESTATICAS *

COMPLETA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	1330.5	19.37	1030169.9
	(1)	804.0	25.66	956110.3
	(2)	915.9	23.90	975770.6
pura -	(0)	2588.4	187.76	11271124.7
	(1)	1306.6	154.55	8625196.5
	(2)	1545.4	165.12	9437777.4
Simple	(0)	8552.3	112.44	50986311.4
	(1)	2892.4	105.65	17620297.4
	(2)	3855.8	108.21	23341409.6
Simple	(0)	376.9	37.15	847476.0
	(1)	376.9	37.15	847476.0
	(2)	376.9	37.15	847476.0

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

NALISIS EN ROTURA(ELASTOPLASTICO)*

culo Seccion: JUNTA P-4

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
etensado: 671.55Tn.
odas las Armaduras activas a .80*Fyk)

TUDIO SECCION CA

alisis con Resistencia de materiales MINORADAS
E. Ultima Acero Estructural(COMPRESION)(%): 2.50
E. Ultima Acero Estructural(TRACCION)(%): 2.50
formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 542.4 Xu(cm.): 61.2

(Tn.): .3 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00155 Etmx= .01000
ape la fibra inferior de la S.parcial 2

EXION PURA NEGATIVA:

(m.T): -919.5 Xu(cm.): 217.1

(Tn.): .1 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00103 Etmx= .01000
ape la fibra superior de la S.parcial 1

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -10646.2 aplicado en Yo(cm)= 147.6

RACCION SIMPLE(Rigido/Plastico):

(Tn.): 763.1 aplicado en Yo(cm)= 114.5

TANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

.(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

NALISIS EN ROTURA(ELASTOPLASTICO)*

culo Seccion: JUNTA P-4

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION

Pretensado: 671.55Tn.
(Todas las Armaduras activas a .80*Fyk)

'TUDIO SECCION CBC

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[╔*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 818.1 Xu(cm.): 24.2

Nu(Tn.): .2 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00096 Etmx= .01000
Rompe la fibra inferior de la S.parcial 2

FLEXION PURA NEGATIVA:

(m.T): -3157.9 Xu(cm.): 202.4

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00170 Etmx= .01000
Rompe la fibra superior de la S.parcial 15

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -13739.8 aplicado en Yo(cm)= 118.5

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 1869.9 aplicado en Yo(cm)= 56.2

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Titulo Seccion: JUNTA P-4

PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 671.55Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION COMPLETA

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[╔*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 819.9 Xu(cm.): 23.3

Nu(Tn.): .1 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00170 Etmx= .01000
Rompe la fibra inferior de la S.parcial 2

FLEXION PURA NEGATIVA:

Mu(m.T): -3572.7 Xu(cm.): 199.8

Nu(Tn.): -.2 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00185 Etmx= .01000
Rompe la fibra superior de la S.parcial 15

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -14241.1 aplicado en Yo(cm)= 115.1

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 2084.1 aplicado en Yo(cm)= 52.5

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Parciales resistentes: Rcu(Kg/cm):

Proyecto:
BORGES BLANQUES

ɔeccion:ROTU G

MATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1(HO)	500.0	1.40	367733	2.25	1.35
2(HO)	300.0	1.50	319387	2.25	1.35
3(RD)	5100.0	1.10	2100000		
4(PR)	17100.0	1.10	1900000		
5(RD)	5100.0	1.15	2100000		
6(PR)	8350.0	1.10	1650000		

ECCIONES PARCIALES

um	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
)	1	46.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
0	2	387.2	30.2	4.8	C*	0
1	2	67.0	25.2	9.9	C*	0
2	4	68.0	13.3	228.1	*T	0
3	4	4.0	13.3	40.0	*T	0
4	3	18.0	12.0	220.0	CT	0
5	3	8.0	12.0	42.5	CT	0
6	5	20.0	12.0	7.3	CT	0
7	5	20.0	12.0	26.5	CT	0
8	5	4.0	12.0	14.3	CT	0
9	5	4.0	12.0	26.5	CT	0
)	3	0.0	25.0	230.0	CT	0

ϕ 12 a 20cm

CCIONES INTERMEDIAS

m.	Codigo	Componentes
	HO	1 2 3 4 5 6 7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

PLETA

ɔo	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
ɔura +	(0)	1849.6	29.80	4472402.7
	(1)	861.6	47.36	3985504.8
	(2)	1083.5	41.33	4141164.2
pura -	(0)	1242.5	214.69	2700098.7
	(1)	550.1	199.27	2461186.6
	(2)	676.6	204.35	2536918.8
Simple	(0)	4937.9	101.94	37802936.5
	(1)	1639.9	105.25	13065981.2
	(2)	2201.3	103.99	17282251.8
Simple	(0)	174.2	147.08	1742940.1
	(1)	174.2	147.08	1742940.1
	(2)	174.2	147.08	1742940.1

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

NALISIS EN ROTURA(ELASTOPLASTICO)*

tulo Secci n: ROTU G

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
etensado: 1368.40Tn.
odas las Armaduras activas a .80*Fyk)

TUDIO SECCION CA

alisis con Resistencia de materiales MINORADAS
f. Ultima Acero Estructural(COMPRESION)(%): 2.50
f. Ultima Acero Estructural(TRACCION)(%): 2.50
formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 2393.3 Xu(cm.): 136.8

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00350 Etmx= .00298
mpe la fibra superior de la S.parcial 1

EXION PURA NEGATIVA:

(m.T): -233.1 Xu(cm.): 217.4

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00136 Etmx= .01000
mpe la fibra superior de la S.parcial 1

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -4867.3 aplicado en Yo(cm)= 160.2

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 1691.3 aplicado en Yo(cm)= 214.1

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

1(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)

-ftulo Secci=n: ROTU G

* PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 1368.40Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CBC

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[ψ*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 3564.8 Xu(cm.): 43.0

..Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00201 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -639.9 Xu(cm.): 213.3

Nu(Tn.): -.1 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00144 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -7055.8 aplicado en Yo(cm)= 116.6

TRACCION SIMPLE(Rigido/Plastico):

(u..n.): 1892.0 aplicado en Yo(cm)= 193.2

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
S.parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

-ftulo Secci=n: ROTU G

PRESOLICITACIONES ELASTICAS
nalisis SIN FISURACION
retensado: 1368.40Tn.
Todas las Armaduras activas a .80*Fyk)

ST DIO SECCION COMPLETA

nalisis con Resistencia de materiales MINORADAS
ef. Ultima Acero Estructural(COMPRESION)(%): 2.50
ef. Ultima Acero Estructural(TRACCION)(%): 2.50
formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[ψ*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 3577.1 Xu(cm.): 39.9

(Tn.): -.1 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00181 Etmx= .01000
mpe la fibra inferior de la S.parcial 9

EXION PURA NEGATIVA:

(m.T): -721.0 Xu(cm.): 212.6

(Tn.): -.5 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00147 Etmx= .01000
mpe la fibra superior de la S.parcial 10

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -7382.4 aplicado en Yo(cm)= 112.4

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 1932.1 aplicado en Yo(cm)= 189.7

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

Proyecto:
BORGES BLNQUES

- ccion:ROTU H

MATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1 (HO)	500.0	1.40	367733	2.25	1.35
2 (HO)	300.0	1.50	319387	2.25	1.35
3 (RD)	5100.0	1.10	2100000		
4 (PR)	17100.0	1.10	1900000		
5 (RD)	5100.0	1.15	2100000		
6 (PR)	8350.0	1.10	1650000		

ECCIONES PARCIALES

um	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	34.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
0	2	480.0	30.2	4.8	C*	0
1	2	220.0	23.2	11.8	C*	0
2	4	68.0	13.3	228.1	*T	0
3	4	4.0	13.3	40.0	*T	0
4	3	18.0	12.0	220.0	CT	0
5	3	8.0	12.0	42.5	CT	0
6	5	24.0	12.0	7.3	CT	0
7	5	24.0	12.0	26.5	CT	0
8	5	11.0	12.0	14.3	CT	0
9	5	11.0	12.0	26.5	CT	0
)	3	0.0	25.0	230.0	CT	0

ϕ12 c 20cm

CCIONES INTERMEDIAS

m.	Codigo	Componentes
	HO	1 2 3 4 5 6 7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

COMPLETA

oo	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
ura +	(0)	2276.5	26.51	4562167.0
	(1)	1139.8	40.43	4153940.6
	(2)	1472.2	35.78	4281858.5
ura -	(0)	1299.6	210.90	3628882.8
	(1)	578.2	191.26	3226799.2
	(2)	707.1	197.67	3354611.3
Simple	(0)	5526.5	86.23	41421957.2
	(1)	1838.3	89.60	14454706.0
	(2)	2466.1	88.31	19051478.7
Simple	(0)	199.1	131.16	2097518.0
	(1)	199.1	131.16	2097518.0
	(2)	199.1	131.16	2097518.0

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

NALISIS EN ROTURA(ELASTOPLASTICO)*

culo Secci n: ROTU H

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
tensado: 1368.40Tn.
odas las Armaduras activas a .80*Fyk)

TUDIO SECCION CA

alisis con Resistencia de materiales MINORADAS
. Ultima Acero Estructural(COMPRESION)(%): 2.50
. Ultima Acero Estructural(TRACCION)(%): 2.50
formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 2095.6 Xu(cm.): 155.3

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00350 Etmx= .00188
pe la fibra superior de la S.parcial 1

EXION PURA NEGATIVA:

(m.T): -233.5 Xu(cm.): 217.9

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00136 Etmx= .01000
pe la fibra superior de la S.parcial 1

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -4204.3 aplicado en Yo(cm)= 165.5

RACCION SIMPLE(Rigido/Plastico):

(Tn.): 1691.3 aplicado en Yo(cm)= 214.1

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

.(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)

ítulo Secci n: ROTU H

PRESOLICITACIONES ELASTICAS
nalisis SIN FISURACION
?retensado: 1368.40Tn.
(Todas las Armaduras activas a .80*Fyk)

STUDIO SECCION CBC

nalisis con Resistencia de materiales MINORADAS
)ef. Ultima Acero Estructural(COMPRESION)(%): 2.50
)ef. Ultima Acero Estructural(TRACCION)(%): 2.50
)eformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
)eformacion Ultima Hormigon(TRACCION)(%): 1.00
:oeficiente Ideal Fluencia[╔*(Cperm./Ctot.)]: 0.00

LEXION PURA POSITIVA:

u(m.T): 3594.7 Xu(cm.): 37.9

u(Tn.): -0.0 Qu(Tn.): 0.0

eformaciones Ultimas: Ecmx= -.00170 Etmx= .01000
ompe la fibra inferior de la S.parcial 9

LEXION PURA NEGATIVA:

u(m.T): -723.5 Xu(cm.): 213.0

u(Tn.): -.1 Qu(Tn.): 0.0

eformaciones Ultimas: Ecmx= -.00148 Etmx= .01000
ompe la fibra superior de la S.parcial 10

OMPRESION SIMPLE(Rigido/Plastico):

u(Tn.): -6909.3 aplicado en Yo(cm)= 108.4

TRACCION SIMPLE(Rigido/Plastico):

u(Tn.): 1932.1 aplicado en Yo(cm)= 189.6

ORTANTE ULTIMO(Rigido/Plastico):

u(Tn.): 0.0 Ru(Kg/cm): 0.0

Yl(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

ítulo Secci n: ROTU H

PRESOLICITACIONES ELASTICAS
nalisis SIN FISURACION
retensado: 1368.40Tn.
odas las Armaduras activas a .80*Fyk)

DIO SECCION COMPLETA

nalisis con Resistencia de materiales MINORADAS
f. Ultima Acero Estructural(COMPRESION)(%): 2.50
f. Ultima Acero Estructural(TRACCION)(%): 2.50

formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[╔*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 3608.3 Xu(cm.): 33.5

(Tn.): .1 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00143 Etmx= .01000
ape la fibra inferior de la S.parcial 9

EXION PURA NEGATIVA:

(m.T): -946.4 Xu(cm.): 211.0

(Tn.): -.7 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00158 Etmx= .01000
ape la fibra superior de la S.parcial 10

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -7887.4 aplicado en Yo(cm)= 97.9

RACCION SIMPLE(Rigido/Plastico):

(Tn.): 2042.4 aplicado en Yo(cm)= 180.5

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

(cm): 0.0 Xv2(cm): 0.0
arciales resistentes: Rcu(Kg/cm):

Proyecto:
BORGES BLANQUES

Seccion:ROTU I

MATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\Pi}1$	$J_{\Pi}2$
1(HO)	500.0	1.40	367733	2.25	1.35
2(HO)	300.0	1.50	319387	2.25	1.35
3(RD)	5100.0	1.10	2100000		
4(PR)	17100.0	1.10	1900000		
5(RD)	5100.0	1.15	2100000		
6(PR)	8350.0	1.10	1650000		

SECCIONES PARCIALES

Num	Mat.	B(cm) Num	H(cm) Π(mm)	Yo(cm)	Mc	Nsr
1	1	46.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
10	2	387.2	30.2	4.8	C*	0
11	2	67.0	25.2	9.9	C*	0
12	4	28.0	13.3	230.0	*T	0
13	4	4.0	13.3	40.0	*T	0
14	3	18.0	12.0	220.0	CT	0
15	3	8.0	12.0	42.5	CT	0
16	5	31.0	25.0	7.3	CT	0
17	5	31.0	20.0	26.5	CT	0
18	5	6.0	25.0	14.3	CT	0
19	5	6.0	20.0	26.5	CT	0
20	3	0.0	25.0	230.0	CT	0

( )

ECCIONES INTERMEDIAS

um.	Codigo	Componentes
1	HO	1 2 3 4 5 6 7 8 9
2	PI	12
3	PS	13
4	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
5	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
6	HL	10 11

* CONSTANTES ESTATICAS *

COMPLETA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	1531.9	22.40	2479306.7
	(1)	904.9	30.83	2340491.4
	(2)	1039.2	28.40	2378697.0
pura -	(0)	1713.6	183.81	10742510.6
	(1)	883.5	142.74	7920042.9
	(2)	1038.6	155.14	8762379.1
Simple	(0)	5131.2	96.64	38672362.0
	(1)	1833.2	90.09	13839935.1
	(2)	2394.6	92.48	18090565.4
Simple	(0)	367.5	49.41	2097394.8
	(1)	367.5	49.41	2097394.8
	(2)	367.5	49.41	2097394.8

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

ϕ 25 a 12'5 cm C SUP
ϕ 20 a 12'5 cm C INF

ANALISIS EN ROTURA(ELASTOPLASTICO)*

ftulo Secci╞n: ROTU I

PRESOLICITACIONES ELASTICAS
nalisis SIN FISURACION
retensado: 608.18Tn.
Todas las Armaduras activas a .80*Fyk)

STUDIO SECCION CA

nalisis con Resistencia de materiales MINORADAS
ef. Ultima Acero Estructural(COMPRESION)(%): 2.50
ef. Ultima Acero Estructural(TRACCION)(%): 2.50
eformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
eformacion Ultima Hormigon(TRACCION)(%): 1.00
oeficiente Ideal Fluencia[╓*(Cperm./Ctot.)]: 0.00

LEXION PURA POSITIVA:

1(m.T): 1348.4 Xu(cm.): 77.1

1(Tn.): -0.0 Qu(Tn.): 0.0

eformaciones Ultimas: Ecmx= -.00272 Etmx= .01000
ompe la fibra inferior de la S.parcial 9

LEXION PURA NEGATIVA:

1(m.T): -249.4 Xu(cm.): 222.0

1(Tn.): .2 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00087 Etmx= .01000
mpe la fibra superior de la S.parcial 2

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -4867.3 aplicado en Yo(cm)= 160.2

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 827.4 aplicado en Yo(cm)= 200.2

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

1(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

NALISIS EN ROTURA(ELASTOPLASTICO)*

culo Secci╞n: ROTU I

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
etensado: 608.18Tn.
odas las Armaduras activas a .80*Fyk)

IO SECCION CBC

alisis con Resistencia de materiales MINORADAS
. Ultima Acero Estructural(COMPRESION)(%): 2.50
. Ultima Acero Estructural(TRACCION)(%): 2.50

formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[╓*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 1670.9 Xu(cm.): 26.0

(Tn.): 0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00101 Etmx= .01000
mpe la fibra inferior de la S.parcial 9

EXION PURA NEGATIVA:

(m.T): -2544.6 Xu(cm.): 204.3

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00171 Etmx= .01000
mpe la fibra superior de la S.parcial 10

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -7961.9 aplicado en Yo(cm)= 105.1

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 1934.2 aplicado en Yo(cm)= 94.8

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

1(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

completa.

flexion pura Positiva: 1672'3 mton

flexion pura Negativa: -2973'6 mton

'royecto:
:O(s0S
:ion:ROTU J

'ATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1 (HO)	500.0	1.40	367733	2.25	1.35
2 (HO)	300.0	1.50	319387	2.25	1.35
3 (RD)	5100.0	1.10	2100000		
4 (PR)	17100.0	1.10	1900000		
5 (RD)	5100.0	1.15	2100000		
6 (PR)	8350.0	1.10	1650000		

ECCIONES PARCIALES

um	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
1	1	46.0	182.0	35.0	C*	0
	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
0	2	387.2	30.2	4.8	C*	0
1	2	67.0	25.2	9.9	C*	0
2	4	56.0	13.3	228.8	*T	0
3	4	4.0	13.3	40.0	*T	0
4	3	18.0	12.0	220.0	CT	0
5	3	8.0	12.0	42.5	CT	0
6	5	20.0	12.0	7.3	CT	0
7	5	20.0	12.0	26.5	CT	0
8	5	4.0	12.0	14.3	CT	0
9	5	4.0	12.0	26.5	CT	0
0	3	0.0	25.0	230.0	CT	0

ϕ 12 a 20cm

:CCIONES INTERMEDIAS

m.	Codigo	Componentes
	HO	1 2 3 4 5 6 7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

COMPLETA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	1719.6	28.14	3888991.4
	(1)	830.6	44.15	3497457.3
	(2)	1050.4	38.71	3621482.9
pura -	(0)	1229.0	214.56	2698429.2
	(1)	536.8	198.52	2450543.0
	(2)	663.2	203.86	2530073.2
Simple	(0)	4922.8	101.56	37571446.0
	(1)	1624.9	104.14	12845392.8
	(2)	2186.2	103.15	17057524.4
Simple	(0)	159.1	139.62	1641091.5
	(1)	159.1	139.62	1641091.5
	(2)	159.1	139.62	1641091.5

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

NALISIS EN ROTURA(ELASTOPLASTICO)*

tulo Secci n: ROTU J

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
etensado: 1140.33Tn.
odas las Armaduras activas a .80*Fyk)

TUDIO SECCION CA

alisis con Resistencia de materiales MINORADAS
f. Ultima Acero Estructural(COMPRESION)(%): 2.50
f. Ultima Acero Estructural(TRACCION)(%): 2.50
formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 2154.6 Xu(cm.): 120.0

(Tn.): .3 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00350 Etmx= .00440
npe la fibra superior de la S.parcial 1

EXION PURA NEGATIVA:

(m.T): -235.8 Xu(cm.): 218.9

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00121 Etmx= .01000
npe la fibra superior de la S.parcial 1

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -4867.3 aplicado en Yo(cm)= 160.2

RACCION SIMPLE(Rigido/Plastico):

(Tn.): 1432.2 aplicado en Yo(cm)= 212.0

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

l(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

:ANALISIS EN ROTURA(ELASTOPLASTICO)*

:ulo Secci n: ROTU J

PRESOLICITACIONES ELASTICAS
nalisis SIN FISURACION
'retensado: 1140.33Tn.
Todas las Armaduras activas a .80*Fyk)

STUDIO SECCION CBC

nalisis con Resistencia de materiales MINORADAS
ef. Ultima Acero Estructural(COMPRESION)(%): 2.50
ef. Ultima Acero Estructural(TRACCION)(%): 2.50
eformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
eformacion Ultima Hormigon(TRACCION)(%): 1.00
oeficiente Ideal Fluencia[*(Cperm./Ctot.)]: 0.00

LEXION PURA POSITIVA:

u(m.T): 3002.9 Xu(cm.): 38.9

n.): -.4 Qu(Tn.): 0.0

eformaciones Ultimas: Ecmx= -.00174 Etmx= .01000
ompe la fibra inferior de la S.parcial 9

EXION PURA NEGATIVA:

u(m.T): -644.3 Xu(cm.): 215.0

u(Tn.): -0.0 Qu(Tn.): 0.0

eformaciones Ultimas: Ecmx= -.00128 Etmx= .01000
ompe la fibra superior de la S.parcial 10

OMPRESION SIMPLE(Rigido/Plastico):

u(Tn.): -7055.8 aplicado en Yo(cm)= 116.6

TRACCION SIMPLE(Rigido/Plastico):

u.): 1632.8 aplicado en Yo(cm)= 188.1

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

1(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

NALISIS EN ROTURA(ELASTOPLASTICO)*

tulo Secci n: ROTU J

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
etensado: 1140.33Tn.
odas las Armaduras activas a .80*Fyk)

TUDIO SECCION COMPLETA

alisis con Resistencia de materiales MINORADAS
. Ultima Acero Estructural(COMPRESION)(%): 2.50
. Ultima Acero Estructural(TRACCION)(%): 2.50
ormacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon

ormacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 3010.7 Xu(cm.): 36.5

(Tn.): -0.0 Qu(Tn.): 0.0

ormaciones Ultimas: Ecmx= -.00160 Etmx= .01000
pe la fibra inferior de la S.parcial 9

EXION PURA NEGATIVA:

(m.T): -725.6 Xu(cm.): 214.4

(Tn.): -0.0 Qu(Tn.): 0.0

ormaciones Ultimas: Ecmx= -.00131 Etmx= .01000
pe la fibra superior de la S.parcial 10

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -7382.4 aplicado en Yo(cm)= 112.4

RACCION SIMPLE(Rigido/Plastico):

(Tn.): 1672.9 aplicado en Yo(cm)= 184.1

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

.(cm): 0.0 Xv2(cm): 0.0
arciales resistentes: Rcu(Kg/cm):

royecto:
ORGES BLANQUES

eccion:ROTU K

ATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1(HO)	500.0	1.40	367733	2.25	1.35
2(HO)	300.0	1.50	319387	2.25	1.35
3(RD)	5100.0	1.10	2100000		
4(PR)	17100.0	1.10	1900000		
5(RD)	5100.0	1.15	2100000		
6(PR)	8350.0	1.10	1650000		

ECCIONES PARCIALES

um	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	46.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
0	2	387.2	30.2	4.8	C*	0
1	2	67.0	25.2	9.9	C*	0
2	4	84.0	13.3	227.5	*T	0
3	4	4.0	13.3	40.0	*T	0
4	3	18.0	12.0	220.0	CT	0
5	3	8.0	12.0	42.5	CT	0
6	5	20.0	12.0	7.3	CT	0
7	5	20.0	12.0	26.5	CT	0
8	5	4.0	12.0	14.3	CT	0
9	5	4.0	12.0	26.5	CT	0
0	3	0.0	25.0	230.0	CT	0

ECCIONES INTERMEDIAS

.m.	Codigo	Componentes
1	HO	1 2 3 4 5 6 7 8 9
2	PI	12
3	PS	13
4	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
5	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
6	HL	10 11

* CONSTANTES ESTATICAS *

C PLETA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	2010.0	31.83	5235648.4
	(1)	901.0	51.38	4610243.7
	(2)	1126.5	44.66	4811948.9
pura -	(0)	1260.6	214.87	2702324.1
	(1)	567.9	200.20	2474545.3
	(2)	694.6	204.96	2545634.4
Simple	(0)	4958.0	102.44	38109386.7
	(1)	1660.1	106.71	13353850.3
	(2)	2221.4	105.09	17577128.1
Simple	(0)	194.3	155.21	1854125.1
	(1)	194.3	155.21	1854125.1
	(2)	194.3	155.21	1854125.1

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

NALISIS EN ROTURA(ELASTOPLASTICO)*

tulo Secci n: ROTU K

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
etensado: 1672.48Tn.
odas las Armaduras activas a .80*Fyk)

TUDIO SECCION CA

alisis con Resistencia de materiales MINORADAS
f. Ultima Acero Estructural(COMPRESION)(%): 2.50
f. Ultima Acero Estructural(TRACCION)(%): 2.50
formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 2583.2 Xu(cm.): 151.1

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00350 Etmx= .00205
pe la fibra superior de la S.parcial 1

EXION PURA NEGATIVA:

(m.T): -227.8 Xu(cm.): 215.3

(Tn.): -.9 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00158 Etmx= .01000
pe la fibra superior de la S.parcial 2

PRESION SIMPLE(Rigido/Plastico):

(Tn.): -4867.3 aplicado en Yo(cm)= 160.2

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 2036.9 aplicado en Yo(cm)= 216.1

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

**NALISIS EN ROTURA(ELASTOPLASTICO)*

Ftulo Secci n: ROTU K

* PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 1672.48Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CBC

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 4229.6 Xu(cm.): 51.0

Nu(Tn.): -.8 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00220 Etmx= .00860
Rompe la fibra superior de la S.parcial 10

FLEXION PURA NEGATIVA:

Mu(m.T): -631.9 Xu(cm.): 210.6

Nu(Tn.): -.8 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00166 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -7055.8 aplicado en Yo(cm)= 116.6

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 2237.5 aplicado en Yo(cm)= 198.2

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Nº parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Ftulo Secci n: ROTU K

PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 1672.48Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION COMPLETA

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 4323.4 Xu(cm.): 44.9

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00213 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -712.4 Xu(cm.): 209.9

Nu(Tn.): -.1 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00170 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -7382.4 aplicado en Yo(cm)= 112.4

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 2277.6 aplicado en Yo(cm)= 195.1

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Nº parciales resistentes: Rcu(Kg/cm):

Proyecto:
BORGES BLANQUES

Seccion:ROTU L

MATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1 (HO)	500.0	1.40	367733	2.25	1.35
2 (HO)	300.0	1.50	319387	2.25	1.35
3 (RD)	5100.0	1.10	2100000		
4 (PR)	17100.0	1.10	1900000		
5 (RD)	5100.0	1.15	2100000		
6 (PR)	8350.0	1.10	1650000		

SECCIONES PARCIALES

Num	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	34.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
0	2	480.0	30.2	4.8	C*	0
1	2	220.0	23.2	11.8	C*	0
2	4	84.0	13.3	227.5	*T	0
3	4	4.0	13.3	40.0	*T	0
4	3	18.0	12.0	220.0	CT	0
5	3	8.0	12.0	42.5	CT	0
6	5	24.0	12.0	7.3	CT	0
7	5	24.0	12.0	26.5	CT	0
8	5	11.0	12.0	14.3	CT	0
9	5	11.0	12.0	26.5	CT	0
0	3	0.0	25.0	230.0	CT	0

ϕ12 a 20cm

ECCIONES INTERMEDIAS

Num.	Codigo	Componentes
1	HO	1 2 3 4 5 6 7 8 9
2	PI	12
3	PS	13
4	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
5	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

COMPLETA

Tipo	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
Pura +	(0)	2475.4	28.19	5352797.5
	(1)	1173.7	43.63	4831860.4
	(2)	1507.5	38.32	4997069.2
Pura -	(0)	1317.5	211.13	3633040.8
	(1)	596.2	192.42	3249636.4
	(2)	725.3	198.45	3369775.0
Simple	(0)	5546.7	86.73	41811363.4
	(1)	1858.4	91.07	14822837.4
	(2)	2486.2	89.42	19427635.6
Simple	(0)	219.2	139.83	2260483.1
	(1)	219.2	139.83	2260483.1
	(2)	219.2	139.83	2260483.1

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Calculo Seccion: ROTU L

PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 1672.48Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CA

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 2233.3 Xu(cm.): 171.9

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00350 Etmx= .00109
Tipe la fibra superior de la S.parcial 1

FLEXION PURA NEGATIVA:

Mu(m.T): -228.6 Xu(cm.): 215.7

Nu(Tn.): -.2 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00159 Etmx= .01000
Tipe la fibra superior de la S.parcial 1

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -4204.3 aplicado en Yo(cm)= 165.5

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 2036.9 aplicado en Yo(cm)= 216.1

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
Parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)

Ftulo Secci n: ROTU L

* PRESOLICITACIONES ELASTICAS
nalisis SIN FISURACION
Pretensado: 1672.48Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CBC

nalisis con Resistencia de materiales MINORADAS
)ef. Ultima Acero Estructural(COMPRESION)(%): 2.50
)ef. Ultima Acero Estructural(TRACCION)(%): 2.50
)eformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
)eformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[*(Cperm./Ctot.)]: 0.00

'LEXION PURA POSITIVA:

u(m.T): 4347.0 Xu(cm.): 42.4

u(Tn.): -0.0 Qu(Tn.): 0.0

eformaciones Ultimas: Ecmx= -.00199 Etmx= .01000
ompe la fibra inferior de la S.parcial 9

LEXION PURA NEGATIVA:

u(m.T): -715.9 Xu(cm.): 210.1

u(Tn.): -.5 Qu(Tn.): 0.0

eformaciones Ultimas: Ecmx= -.00172 Etmx= .01000
ompe la fibra superior de la S.parcial 10

OMPRESION SIMPLE(Rigido/Plastico):

u(Tn.): -6909.3 aplicado en Yo(cm)= 108.4

-TRACCION SIMPLE(Rigido/Plastico):

u(Tn.): 2277.6 aplicado en Yo(cm)= 195.1

ORTANTE ULTIMO(Rigido/Plastico):

u(Tn.): 0.0 Ru(Kg/cm): 0.0

v1(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Ftulo Secci n: ROTU L

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
retensado: 1672.48Tn.
Todas las Armaduras activas a .80*Fyk)

DIO SECCION COMPLETA

alisis con Resistencia de materiales MINORADAS
ef. Ultima Acero Estructural(COMPRESION)(%): 2.50
ef. Ultima Acero Estructural(TRACCION)(%): 2.50

formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 4367.5 Xu(cm.): 36.4

(Tn.): -.5 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00161 Etmx= .01000
mpe la fibra inferior de la S.parcial 9

EXION PURA NEGATIVA:

(m.T): -937.4 Xu(cm.): 208.0

(Tn.): -.3 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00184 Etmx= .01000
mpe la fibra superior de la S.parcial 10

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -7887.4 aplicado en Yo(cm)= 97.9

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 2388.0 aplicado en Yo(cm)= 187.0

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

Subanejo 8.2

MOMENTOS ÚLTIMOS DE LAS SECCIONES CON REFUERZO

Proyecto:
BORGES BLANQUES

ɔeccion:ROTU D con Armado en losa tipo (B)

MATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1(HO)	500.0	1.40	367733	2.25	1.35
2(HO)	300.0	1.50	319387	2.25	1.35
3(RD)	5100.0	1.10	2100000		
4(PR)	17100.0	1.10	1900000		
5(RD)	5100.0	1.15	2100000		
6(PR)	8350.0	1.10	1650000		

ECCIONES PARCIALES

lum	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	46.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
0	2	387.2	30.2	4.8	C*	0
1	2	67.0	25.2	9.9	C*	0
2	4	48.0	13.3	229.4	*T	0
3	4	4.0	13.3	40.0	*T	0
4	3	18.0	12.0	220.0	CT	0
5	3	8.0	12.0	42.5	CT	0
6	5	26.0	20.0	7.3	CT	0
7	5	26.0	20.0	26.5	CT	0
8	5	5.0	20.0	14.3	CT	0
9	5	5.0	20.0	26.5	CT	0
0	3	0.0	25.0	230.0	CT	0

ϕ 20 a 15 cm./cm

ECCIONES INTERMEDIAS

um.	Codigo	Componentes
	HO	1 2 3 4 5 6
		7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6
		7 8 9 12 13 14 15
		20
	CBC	1 2 3 4 5 6
		7 8 9 10 12 13 14
		15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

E PLETA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	1721.5	26.27	3515429.0
	(1)	932.7	38.43	3239137.6

	(2)	1145.9	34.68	3320022.3
F.pura -	(0)	1540.7	195.61	7569027.6
	(1)	756.2	162.63	6066593.2
	(2)	899.9	172.87	6528330.9
C.Simple	(0)	5053.2	99.00	38362333.6
	(1)	1755.3	96.60	13636841.0
	(2)	2316.7	97.49	17848570.7
T.Simple	(0)	289.5	77.92	2533717.3
	(1)	289.5	77.92	2533717.3
	(2)	289.5	77.92	2533717.3

*** Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

ANALISIS EN ROTURA(ELASTOPLASTICO)

Título Sección: ROTU D

* PRESOLICITACIONES ELASTICAS
Análisis SIN FISURACION
Pretensado: 988.29Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CA

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[Π*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 1963.5 Xu(cm.): 107.6

Nu(Tn.): .3 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00350 Etmx= .00585
Rompe la fibra superior de la S.parcial 1

FLEXION PURA NEGATIVA:

Mu(m.T): -237.1 Xu(cm.): 219.8

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00111 Etmx= .01000
Rompe la fibra superior de la S.parcial 1

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -4867.3 aplicado en Yo(cm)= 160.2

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 1259.4 aplicado en Yo(cm)= 210.1

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Yv1(cm): 0.0 Xv2(cm): 0.0
Nudos parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Título Sección: ROTU D

PRESOLICITACIONES ELASTICAS
Análisis SIN FISURACION
Pretensado: 988.29Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CBC

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[Π*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

(m.T): 2644.4 Xu(cm.): 33.6

(Tn.): 0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00143 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

(m.T): -1721.2 Xu(cm.): 207.7

(Tn.): -.1 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00163 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

(Tn.): -7579.6 aplicado en Yo(cm)= 109.8

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 1983.9 aplicado en Yo(cm)= 139.9

CORTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

Yv1(cm): 0.0 Xv2(cm): 0.0
Nudos parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Título Sección: ROTU D

PRESOLICITACIONES ELASTICAS
Análisis SIN FISURACION
Pretensado: 988.29Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION COMPLETA

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50

Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 2648.6 Xu(cm.): 31.9

Nu(Tn.): 0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00133 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -2000.1 Xu(cm.): 205.2

Nu(Tn.): -.4 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00177 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -8005.4 aplicado en Yo(cm)= 105.1

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 2123.2 aplicado en Yo(cm)= 132.1

CORTANTE ULTIMO(Rigido/Plastico):

Qu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
S.parciales resistentes: Rcu(Kg/cm):

oyecto:
RGES BLANQUES

ccion:ROTU J con dimensionado en base tipo (B)

TERIALES

um.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_\pi 1$	$J_\pi 2$
(HO)	500.0	1.40	367733	2.25	1.35
(HO)	300.0	1.50	319387	2.25	1.35
(RD)	5100.0	1.10	2100000		
(PR)	17100.0	1.10	1900000		
(RD)	5100.0	1.15	2100000		
(PR)	8350.0	1.10	1650000		

CCIONES PARCIALES

m	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	46.0	182.0	35.0	C*	0
	1	29.2	14.8	35.0	C*	0
	1	17.0	17.6	35.0	C*	0
	1	20.5	10.0	49.8	C*	0
	1	14.3	8.1	52.6	C*	0
	1	10.6	7.7	209.3	C*	0
	1	11.3	12.0	205.0	C*	0
	1	3.4	12.0	217.0	C*	0
	1	328.0	18.0	217.0	C*	0
	2	387.2	30.2	4.8	C*	0
	2	67.0	25.2	9.9	C*	0
	4	56.0	13.3	228.8	*T	0
	4	4.0	13.3	40.0	*T	0
	3	18.0	12.0	220.0	CT	0
	3	8.0	12.0	42.5	CT	0
	5	26.0	20.0	7.3	CT	0
	5	26.0	20.0	26.5	CT	0
	5	5.0	20.0	14.3	CT	0
	5	5.0	20.0	26.5	CT	0
	3	0.0	25.0	230.0	CT	0

} ϕ 20 a 15cm /cara

CCIONES INTERMEDIAS

m.	Codigo	Componentes
	HO	1 2 3 4 5 6
		7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6
		7 8 9 12 13 14 15
		20
	CBC	1 2 3 4 5 6
		7 8 9 10 12 13 14
		15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

COMPLETA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	1809.7	27.41	3912761.8
	(1)	952.6	40.42	3587742.0

	(2)	1174.5	36.32	3683495.0
?ura -	(0)	1549.2	195.80	7577891.6
	(1)	764.3	163.46	6105862.7
	(2)	907.9	173.45	6555889.0
?.Simple	(0)	5063.3	99.25	38523177.3
	(1)	1765.4	97.33	13803242.8
	(2)	2326.7	98.04	18012900.2
?.Simple	(0)	299.6	82.88	2745693.3
	(1)	299.6	82.88	2745693.3
	(2)	299.6	82.88	2745693.3

?** Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

?ANALISIS EN ROTURA(ELASTOPLASTICO)*

?ítulo Secci?n: ROTU J

?ESOLICITACIONES ELASTICAS
?alisis SIN FISURACION
?retensado: 1140.33Tn.
Todas las Armaduras activas a .80*Fyk)

?STUDIO SECCION CA

?nalisis con Resistencia de materiales MINORADAS
?ef. Ultima Acero Estructural(COMPRESION)(%): 2.50
?ef. Ultima Acero Estructural(TRACCION)(%): 2.50
?eformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
?eformacion Ultima Hormigon(TRACCION)(%): 1.00
?oeficiente Ideal Fluencia[?*(Cperm./Ctot.)]: 0.00

?LEXION PURA POSITIVA:

?u(m.T): 2154.5 Xu(cm.): 120.0

?u(Tn.): .3 Qu(Tn.): 0.0

?ef ?rmaciones Ultimas: Ecmx= -.00350 Etmx= .00440
?e la fibra superior de la S.parcial 1

?LEXION PURA NEGATIVA:

?u(m.T): -235.8 Xu(cm.): 218.9

?u(Tn.): -0.0 Qu(Tn.): 0.0

?eformaciones Ultimas: Ecmx= -.00121 Etmx= .01000
?ompe la fibra superior de la S.parcial 1

?OMPRESION SIMPLE(Rigido/Plastico):

?u(Tn.): -4867.3 aplicado en Yo(cm)= 160.2

?TRACCION SIMPLE(Rigido/Plastico):

?u(Tn.): 1432.2 aplicado en Yo(cm)= 212.0

?ORTANTE ULTIMO(Rigido/Plastico):

?u(Tn.): 0.0 Ru(Kg/cm): 0.0

?1(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

?NALISIS EN ROTURA(ELASTOPLASTICO)*

?tulo Secci?n: ROTU J

?PRESOLICITACIONES ELASTICAS
?alisis SIN FISURACION
?etensado: 1140.33Tn.
?odas las Armaduras activas a .80*Fyk)

?TUDIO SECCION CBC

?alisis con Resistencia de materiales MINORADAS
?f. Ultima Acero Estructural(COMPRESION)(%): 2.50
?f. Ultima Acero Estructural(TRACCION)(%): 2.50
?formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
?formacion Ultima Hormigon(TRACCION)(%): 1.00
?eficiente Ideal Fluencia[?*(Cperm./Ctot.)]: 0.00

?EXION PURA POSITIVA:

(m.T): 3026.7 Xu(cm.): 35.8

(Tn.): -.1 Qu(Tn.): 0.0

?ormaciones Ultimas: Ecmx= -.00156 Etmx= .01000
?pe la fibra inferior de la S.parcial 9

?EXION PURA NEGATIVA:

(m.T): -1716.0 Xu(cm.): 206.2

?Tn.): -.5 Qu(Tn.): 0.0

?ormaciones Ultimas: Ecmx= -.00176 Etmx= .01000
?pe la fibra superior de la S.parcial 10

?PRESION SIMPLE(Rigido/Plastico):

(Tn.): -7579.6 aplicado en Yo(cm)= 109.8

?RACCION SIMPLE(Rigido/Plastico):

(Tn.): 2156.6 aplicado en Yo(cm)= 146.8

?RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

?(cm): 0.0 Xv2(cm): 0.0
?arciales resistentes: Rcu(Kg/cm):

?ALISIS EN ROTURA(ELASTOPLASTICO)*

?ulo Secci?n: ROTU J

?RESOLICITACIONES ELASTICAS
?alisis SIN FISURACION
?tensado: 1140.33Tn.
?odas las Armaduras activas a .80*Fyk)

?UDIO SECCION COMPLETA

?alisis con Resistencia de materiales MINORADAS
?. Ultima Acero Estructural(COMPRESION)(%): 2.50
?. Ultima Acero Estructural(TRACCION)(%): 2.50

Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[J_{Π}*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 3032.4 Xu(cm.): 33.8

Nu(Tn.): 0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00144 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -1994.2 Xu(cm.): 203.6

Nu(Tn.): -.3 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00190 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

CO RESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -8005.4 aplicado en Yo(cm)= 105.1

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 2296.0 aplicado en Yo(cm)= 139.2

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0
Xv1(cm): 0.0 Xv2(cm): 0.0
N.parciales resistentes: Rcu(Kg/cm):

oyecto:
RGES BLANQUES

ccion:ROTU C REF POS

TERIALES

um.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\Pi}1$	$J_{\Pi}2$
(HO)	500.0	1.40	367733	2.25	1.35
(HO)	300.0	1.50	319387	2.25	1.35
(RD)	5100.0	1.10	2100000		
(PR)	17100.0	1.10	1900000		
(RD)	5100.0	1.15	2100000		
(PR)	8350.0	1.10	1650000		

CCIONES PARCIALES

m	Mat.	B(cm) Num	H(cm) Π(mm)	Yo(cm)	Mc	Nsr
	1	34.0	182.0	35.0	C*	0
	1	29.2	14.8	35.0	C*	0
	1	17.0	17.6	35.0	C*	0
	1	20.5	10.0	49.8	C*	0
	1	14.3	8.1	52.6	C*	0
	1	10.6	7.7	209.3	C*	0
	1	11.3	12.0	205.0	C*	0
	1	3.4	12.0	217.0	C*	0
	1	328.0	18.0	217.0	C*	0
	2	480.0	30.2	4.8	C*	0
	2	220.0	23.2	11.8	C*	0
	4	48.0	13.3	229.4	*T	0
	4	4.0	13.3	40.0	*T	0
	3	18.0	12.0	220.0	CT	0
	3	8.0	12.0	42.5	CT	0
	5	24.0	12.0	7.3	CT	0
	5	24.0	12.0	26.5	CT	0
	5	11.0	12.0	14.3	CT	0
	5	11.0	12.0	26.5	CT	0
	3	10.0	25.0	230.0	CT	0

CCIONES INTERMEDIAS

m.	Codigo	Componentes
	HO	1 2 3 4 5 6 7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

COMPLETA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	2523.1	28.60	5612285.0
	(1)	1181.0	44.45	5060040.7

	(2)	1515.3	38.98	5235818.9
...ra -	(0)	1318.9	211.38	3643784.5
	(1)	598.8	193.09	3273879.2
	(2)	727.8	198.97	3389390.2
.Simple	(0)	5550.5	86.88	41963512.7
	(1)	1862.2	91.49	14967842.3
	(2)	2490.0	89.74	19575334.2
.Simple	(0)	223.0	142.54	2336223.6
	(1)	223.0	142.54	2336223.6
	(2)	223.0	142.54	2336223.6

** Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

ANALISIS EN ROTURA(ELASTOPLASTICO)*

...tulo Secci...n: ROTU C REF POS

...RESOLICITACIONES ELASTICAS
...lisis SIN FISURACION
...etensado: 988.29Tn.
...odas las Armaduras activas a .80*Fyk)

...TUDIO SECCION CA

...alisis con Resistencia de materiales MINORADAS
...f. Ultima Acero Estructural(COMPRESION)(%): 2.50
...f. Ultima Acero Estructural(TRACCION)(%): 2.50
...formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
...formacion Ultima Hormigon(TRACCION)(%): 1.00
...eficiente Ideal Fluencia[...*(Cperm./Ctot.)]: 0.00

...EXION PURA POSITIVA:

...(m.T): 2017.6 Xu(cm.): 146.8

...(Tn.): .5 Qu(Tn.): 0.0

...maciones Ultimas: Ecmx= -.00350 Etmx= .00245
...e la fibra superior de la S.parcial 1

...EXION PURA NEGATIVA:

(m.T): -242.5 Xu(cm.): 221.1

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00104 Etmx= .01000
mpe la fibra superior de la S.parcial 3

...MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -4431.8 aplicado en Yo(cm)= 168.9

...TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 1487.0 aplicado en Yo(cm)= 213.4

R...NTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

...(cm): 0.0 Xv2(cm): 0.0
...parciales resistentes: Rcu(Kg/cm):

NALISIS EN ROTURA(ELASTOPLASTICO)*

...tulo Secci...n: ROTU C REF POS

...RESOLICITACIONES ELASTICAS
...alisis SIN FISURACION
...etensado: 988.29Tn.
...odas las Armaduras activas a .80*Fyk)

...TUDIO SECCION CBC

...alisis con Resistencia de materiales MINORADAS
...f. Ultima Acero Estructural(COMPRESION)(%): 2.50
...f. Ultima Acero Estructural(TRACCION)(%): 2.50
...formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
...formacion Ultima Hormigon(TRACCION)(%): 1.00
...eficiente Ideal Fluencia[...*(Cperm./Ctot.)]: 0.00

...EXION PURA POSITIVA:

(m.T): 3120.0 Xu(cm.): 35.2

(Tn.): -.3 Qu(Tn.): 0.0

...formaciones Ultimas: Ecmx= -.00153 Etmx= .01000
...pe la fibra inferior de la S.parcial 9

...EXION PURA NEGATIVA:

(m.T): -736.6 Xu(cm.): 217.2

(Tn.): -0.0 Qu(Tn.): 0.0

...formaciones Ultimas: Ecmx= -.00114 Etmx= .01000
...pe la fibra superior de la S.parcial 10

...MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -7136.9 aplicado en Yo(cm)= 112.4

...RACCION SIMPLE(Rigido/Plastico):

(Tn.): 1727.7 aplicado en Yo(cm)= 186.1

...RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

...(cm): 0.0 Xv2(cm): 0.0
...parciales resistentes: Rcu(Kg/cm):

...NALISIS EN ROTURA(ELASTOPLASTICO)*

...ulo Secci...n: ROTU C REF POS

...PRESOLICITACIONES ELASTICAS
...alisis SIN FISURACION
...etensado: 988.29Tn.
...odas las Armaduras activas a .80*Fyk)

...TUDIO SECCION COMPLETA

...alisis con Resistencia de materiales MINORADAS
...f. Ultima Acero Estructural(COMPRESION)(%): 2.50
...f. Ultima Acero Estructural(TRACCION)(%): 2.50

Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
C ficiente Ideal Fluencia[ᵽ*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 3129.6 Xu(cm.): 31.5

Nu(Tn.): .1 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00132 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -961.6 Xu(cm.): 215.6

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00121 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

C PRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -8114.9 aplicado en Yo(cm)= 101.6

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 1838.1 aplicado en Yo(cm)= 176.2

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
S.parciales resistentes: Rcu(Kg/cm):

oyecto:
RGES BLANQUES

ccion:ROTU H REF POS

TERIALES

um.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_ᵽ1$	$J_ᵽ2$
(HO)	500.0	1.40	367733	2.25	1.35
(HO)	300.0	1.50	319387	2.25	1.35
(RD)	5100.0	1.10	2100000		
(PR)	17100.0	1.10	1900000		
(RD)	5100.0	1.15	2100000		
(PR)	8350.0	1.10	1650000		

CCIONES PARCIALES

m	Mat.	B(cm) Num	H(cm) ᵽ(mm)	Yo(cm)	Mc	Nsr
	1	34.0	182.0	35.0	C*	0
	1	29.2	14.8	35.0	C*	0
	1	17.0	17.6	35.0	C*	0
	1	20.5	10.0	49.8	C*	0
	1	14.3	8.1	52.6	C*	0
	1	10.6	7.7	209.3	C*	0
	1	11.3	12.0	205.0	C*	0
	1	3.4	12.0	217.0	C*	0
	1	328.0	18.0	217.0	C*	0
	2	480.0	30.2	4.8	C*	0
	2	220.0	23.2	11.8	C*	0
	4	68.0	13.3	228.1	*T	0
	4	4.0	13.3	40.0	*T	0
	3	18.0	12.0	220.0	CT	0
	3	8.0	12.0	42.5	CT	0
	5	24.0	12.0	7.3	CT	0
	5	24.0	12.0	26.5	CT	0
	5	11.0	12.0	14.3	CT	0
	5	11.0	12.0	26.5	CT	0
	3	16.0	25.0	230.0	CT	0

CCIONES INTERMEDIAS

m.	Codigo	Componentes
	HO	1 2 3 4 5 6 7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6 7 8 9 12 13 14 15 20
	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 20
	HL	10 11

* CONSTANTES ESTATICAS *

COMPLETA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	2995.1	32.52	7753839.5
	(1)	1269.1	52.48	6831930.1

	(2)	1608.8	45.50	7132717.3
' ura -	(0)	1366.8	212.07	3659580.0
	(1)	647.9	196.08	3337333.0
	(2)	777.1	201.05	3434327.3
:.Simple	(0)	5605.1	88.26	43050633.8
	(1)	1916.8	95.40	15966113.0
	(2)	2544.6	92.72	20606649.9
'.Simple	(0)	277.6	159.48	2661790.1
	(1)	277.6	159.48	2661790.1
	(2)	277.6	159.48	2661790.1

** Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

ANALISIS EN ROTURA(ELASTOPLASTICO)*

ftulo Secci╞n: ROTU H REF POS

ESOLICITACIONES ELASTICAS
alisis SIN FISURACION
retensado: 1368.40Tn.
Todas las Armaduras activas a .80*Fyk)

STUDIO SECCION CA

nalisis con Resistencia de materiales MINORADAS
ef. Ultima Acero Estructural(COMPRESION)(%): 2.50
ef. Ultima Acero Estructural(TRACCION)(%): 2.50
eformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
eformacion Ultima Hormigon(TRACCION)(%): 1.00
oeficiente Ideal Fluencia[╥*(Cperm./Ctot.)]: 0.00

LEXION PURA POSITIVA:

u(m.T): 2203.2 Xu(cm.): 168.8

u(Tn.): -.1 Qu(Tn.): 0.0

:maciones Ultimas: Ecmx= -.00350 Etmx= .00132
.pe la fibra superior de la S.parcial 1

LEXION PURA NEGATIVA:

u(m.T): -244.9 Xu(cm.): 219.8

u(Tn.): -0.0 Qu(Tn.): 0.0

eformaciones Ultimas: Ecmx= -.00123 Etmx= .01000
ompe la fibra superior de la S.parcial 1

OMPRESION SIMPLE(Rigido/Plastico):

u(Tn.): -4568.4 aplicado en Yo(cm)= 170.8

TRACCION SIMPLE(Rigido/Plastico):

u(Tn.): 2055.5 aplicado en Yo(cm)= 217.1

OP NTE ULTIMO(Rigido/Plastico):

u(Tn.): 0.0 Ru(Kg/cm): 0.0

'1(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

NALISIS EN ROTURA(ELASTOPLASTICO)*

tulo Secci╞n: ROTU H REF POS

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
etensado: 1368.40Tn.
odas las Armaduras activas a .80*Fyk)

TUDIO SECCION CBC

alisis con Resistencia de materiales MINORADAS
f. Ultima Acero Estructural(COMPRESION)(%): 2.50
f. Ultima Acero Estructural(TRACCION)(%): 2.50
formacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
formacion Ultima Hormigon(TRACCION)(%): 1.00
eficiente Ideal Fluencia[╥*(Cperm./Ctot.)]: 0.00

EXION PURA POSITIVA:

(m.T): 4346.6 Xu(cm.): 42.3

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00198 Etmx= .01000
mpe la fibra inferior de la S.parcial 9

EXION PURA NEGATIVA:

(m.T): -737.9 Xu(cm.): 215.6

(Tn.): -0.0 Qu(Tn.): 0.0

formaciones Ultimas: Ecmx= -.00132 Etmx= .01000
mpe la fibra superior de la S.parcial 10

MPRESION SIMPLE(Rigido/Plastico):

(Tn.): -7273.5 aplicado en Yo(cm)= 114.6

TRACCION SIMPLE(Rigido/Plastico):

(Tn.): 2296.2 aplicado en Yo(cm)= 196.2

RTANTE ULTIMO(Rigido/Plastico):

(Tn.): 0.0 Ru(Kg/cm): 0.0

(cm): 0.0 Xv2(cm): 0.0
parciales resistentes: Rcu(Kg/cm):

NALISIS EN ROTURA(ELASTOPLASTICO)*

culo Secci╞n: ROTU H REF POS

PRESOLICITACIONES ELASTICAS
alisis SIN FISURACION
etensado: 1368.40Tn.
odas las Armaduras activas a .80*Fyk)

TUDIO SECCION COMPLETA

alisis con Resistencia de materiales MINORADAS
f. Ultima Acero Estructural(COMPRESION)(%): 2.50
f. Ultima Acero Estructural(TRACCION)(%): 2.50

Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[Π*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 4366.7 Xu(cm.): 36.3

Nu(Tn.): -.6 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00160 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -962.6 Xu(cm.): 214.1

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00140 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -8251.5 aplicado en Yo(cm)= 103.7

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 2406.6 aplicado en Yo(cm)= 188.2

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
N.parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Titulo Seccion: ROTU L

PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 1672.48Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CA

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[Π*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 2233.3 Xu(cm.): 171.9

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00350 Etmx= .00109
Rompe la fibra superior de la S.parcial 1

FLEXION PURA NEGATIVA:

Mu(m.T): -228.6 Xu(cm.): 215.7

Nu(Tn.): -.2 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00159 Etmx= .01000
Rompe la fibra superior de la S.parcial 1

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -4204.3 aplicado en Yo(cm)= 165.5

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 2036.9 aplicado en Yo(cm)= 216.1

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Xv1(cm): 0.0 Xv2(cm): 0.0
N.parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Titulo Seccion: ROTU L

PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Pretensado: 1672.48Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION CBC

Analisis con Resistencia de materiales MINORADAS
Def. Ultima Acero Estructural(COMPRESION)(%): 2.50
Def. Ultima Acero Estructural(TRACCION)(%): 2.50

Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 4347.0 Xu(cm.): 42.4

Nu(Tn.): -0.0 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00199 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -715.9 Xu(cm.): 210.1

Nu(Tn.): -.5 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00172 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -6909.3 aplicado en Yo(cm)= 108.4

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 2277.6 aplicado en Yo(cm)= 195.1

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Yv1(cm): 0.0 Xv2(cm): 0.0
Coef.parciales resistentes: Rcu(Kg/cm):

ANALISIS EN ROTURA(ELASTOPLASTICO)*

Titulo Seccion: ROTU L

PRESOLICITACIONES ELASTICAS
Analisis SIN FISURACION
Preetensado: 1672.48Tn.
(Todas las Armaduras activas a .80*Fyk)

ESTUDIO SECCION COMPLETA

Analisis con Resistencia de materiales MINORADAS
Coef. Ultima Acero Estructural(COMPRESION)(%): 2.50
Coef. Ultima Acero Estructural(TRACCION)(%): 2.50
Deformacion Ultima Hormigon(COMPRESION) : Pivote en Bloque de Hormigon
Deformacion Ultima Hormigon(TRACCION)(%): 1.00
Coeficiente Ideal Fluencia[π*(Cperm./Ctot.)]: 0.00

FLEXION PURA POSITIVA:

Mu(m.T): 4367.5 Xu(cm.): 36.4

Nu(Tn.): -.5 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00161 Etmx= .01000
Rompe la fibra inferior de la S.parcial 9

FLEXION PURA NEGATIVA:

Mu(m.T): -937.4 Xu(cm.): 208.0

Nu(Tn.): -.3 Qu(Tn.): 0.0

Deformaciones Ultimas: Ecmx= -.00184 Etmx= .01000
Rompe la fibra superior de la S.parcial 10

COMPRESION SIMPLE(Rigido/Plastico):

Nu(Tn.): -7887.4 aplicado en Yo(cm)= 97.9

TRACCION SIMPLE(Rigido/Plastico):

Nu(Tn.): 2388.0 aplicado en Yo(cm)= 187.0

CORTANTE ULTIMO(Rigido/Plastico):

Vu(Tn.): 0.0 Ru(Kg/cm): 0.0

Yv1(cm): 0.0 Xv2(cm): 0.0
Coef.parciales resistentes: Rcu(Kg/cm):

Subanejo 9

ENVOLVENTES DE ROTURA. CORTANTE

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.VY+

Rotura.Dominante GRAD. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-127.35	0.00
1	2	1.00	0.00	-105.97	122.69
2	2	1.00	0.00	-105.97	122.69
2	3	1.18	0.00	-103.35	143.22
3	3	1.18	0.00	-103.35	143.22
3	4	2.35	0.00	-85.18	277.23
4	4	2.35	0.00	-85.18	277.23
4	5	3.53	0.00	-66.15	402.38
5	5	3.53	0.00	-66.15	402.38
5	6	4.70	0.00	-46.29	515.64
6	6	4.70	0.00	-46.29	515.64
6	7	5.88	0.00	-25.56	614.04
7	7	5.88	0.00	-25.56	614.04
7	8	7.05	0.00	-3.99	694.65
8	8	7.05	0.00	-3.99	694.65
8	9	8.23	0.00	18.40	754.58
9	9	8.23	0.00	18.40	754.58
9	10	9.40	0.00	43.13	1042.19
10	10	9.40	0.00	43.13	1042.19
10	11	10.58	0.00	76.34	1173.27
11	11	10.58	0.00	76.34	1173.27
11	12	11.75	0.00	110.61	1285.22
12	12	11.75	0.00	110.61	1285.22
12	13	12.93	0.00	148.63	1259.27
13	13	12.93	0.00	148.63	1259.27
13	14	14.10	0.00	187.24	1118.62
14	14	14.10	0.00	187.24	1118.62
14	15	15.28	0.00	226.95	957.82
15	15	15.28	0.00	226.95	957.82
15	16	16.45	0.00	266.94	735.53
16	16	16.45	-1.46	266.93	735.53
16	17	17.63	-1.54	307.95	449.33
17	17	17.63	-1.54	307.95	449.33
17	18	18.80	-1.61	349.88	106.34
18	18	18.80	-0.76	349.82	106.34
18	19	19.98	-0.76	392.19	-295.57
19	19	19.98	-0.76	392.19	-295.57
19	20	21.15	-2.03	434.97	-757.16
20	20	21.15	0.00	435.23	-757.16
20	21	22.33	0.00	478.41	-1279.21
21	21	22.33	0.00	478.41	-1279.21
21	22	22.50	0.00	484.52	-1362.17
22	22	22.50	0.00	484.52	-1362.17
22	23	23.50	0.00	529.21	-1864.88
23	1023	23.50	0.00	-187.23	-56.07
23	24	24.50	0.00	-167.31	124.39
24	24	24.50	0.00	-167.31	124.39
24	25	24.95	0.00	-160.71	201.77
25	25	24.95	0.00	-160.71	201.77
25	26	26.40	0.00	-138.94	440.23
26	26	26.40	-1.01	-138.82	440.23

cortante.xls

Programa DINTEL IDEAM S.A.
Rotura.T0.GRAD.VY+

27/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.VY+

Rotura.Dominante GRAD. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.07	-116.22	663.85
27	27	27.85	-0.07	-116.22	663.85
27	28	29.30	-0.07	-92.87	864.43
28	28	29.30	0.97	-92.85	864.43
28	29	30.75	0.87	-68.59	1042.60
29	29	30.75	0.87	-68.59	1042.60
29	30	32.20	0.82	-43.43	1195.44
30	30	32.20	0.00	-43.44	1195.44
30	31	33.65	0.00	-17.29	1319.83
31	31	33.65	0.00	-17.29	1319.83
31	32	35.10	0.00	10.03	1480.73
32	32	35.10	0.00	10.03	1480.73
32	33	36.55	0.00	39.42	1552.64
33	33	36.55	0.00	39.42	1552.64
33	34	38.00	0.00	70.21	1838.20
34	34	38.00	0.00	70.21	1838.20
34	35	39.45	0.00	114.07	2083.82
35	35	39.45	0.00	114.07	2083.82
35	36	40.90	0.00	159.86	2051.47
36	36	40.90	0.00	159.86	2051.47
36	37	42.35	0.00	207.23	1866.15
37	37	42.35	0.00	207.23	1866.15
37	38	43.80	0.00	255.84	1611.09
38	38	43.80	-0.82	255.82	1611.09
38	39	45.25	-0.89	305.65	1300.74
39	39	45.25	-0.89	305.65	1300.74
39	40	46.70	-0.94	355.96	873.40
40	40	46.70	0.07	355.99	873.40
40	41	48.15	0.07	407.41	369.29
41	41	48.15	0.07	407.41	369.29
41	42	49.60	-1.20	459.97	-197.05
42	42	49.60	0.00	460.08	-197.05
42	43	51.05	0.00	512.92	-893.69
43	43	51.05	0.00	512.92	-893.69
43	44	51.50	0.00	528.62	-1124.35
44	44	51.50	0.00	528.62	-1124.35
44	45	52.50	0.00	575.00	-1646.18
45	1045	52.50	0.00	-181.26	-291.54
45	46	53.50	0.00	-161.34	-117.03
46	46	53.50	0.00	-161.34	-117.03
46	47	53.95	0.00	-154.73	-42.26
47	47	53.95	0.00	-154.73	-42.26
47	48	55.40	0.00	-132.96	187.84
48	48	55.40	-0.91	-132.86	187.84
48	49	56.85	0.02	-110.27	402.06
49	49	56.85	0.02	-110.27	402.06
49	50	58.30	0.02	-86.87	595.03
50	50	58.30	0.99	-86.87	595.03
50	51	59.75	0.91	-62.60	765.80
51	51	59.75	0.91	-62.60	765.80
51	52	61.20	0.86	-37.40	911.39

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.VY+

Rotura.Dominante GRAD. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-37.41	911.39
52	53	62.65	0.00	-11.25	1028.60
53	53	62.65	0.00	-11.25	1028.60
53	54	64.10	0.00	15.88	1114.03
54	54	64.10	0.00	15.88	1114.03
54	55	65.55	0.00	44.00	1164.08
55	55	65.55	0.00	44.00	1164.08
55	56	67.00	0.00	76.45	1526.89
56	56	67.00	0.00	76.45	1526.89
56	57	68.45	0.00	120.36	1753.99
57	57	68.45	0.00	120.36	1753.99
57	58	69.90	0.00	166.34	1717.53
58	58	69.90	0.00	166.34	1717.53
58	59	71.35	0.00	213.75	1523.82
59	59	71.35	0.00	213.75	1523.82
59	60	72.80	0.00	262.36	1260.42
60	60	72.80	-0.87	262.34	1260.42
60	61	74.25	-0.95	312.11	942.96
61	61	74.25	-0.95	312.11	942.96
61	62	75.70	-0.98	362.41	506.70
62	62	75.70	-0.02	362.43	506.70
62	63	77.15	-0.02	413.86	-6.28
63	63	77.15	-0.02	413.86	-6.28
63	64	78.60	-1.29	466.33	-580.25
64	64	78.60	0.00	466.46	-580.25
64	65	80.05	0.00	519.39	-1286.69
65	65	80.05	0.00	519.39	-1286.69
65	66	80.50	0.00	535.07	-1520.22
66	66	80.50	0.00	535.07	-1520.22
66	67	81.50	0.00	581.44	-2047.54
67	1067	81.50	0.00	-202.33	-54.95
67	68	82.50	0.00	-182.42	140.60
68	68	82.50	0.00	-182.42	140.60
68	69	83.08	0.00	-173.97	247.91
69	69	83.08	0.00	-173.97	247.91
69	70	84.65	0.00	-150.33	528.55
70	70	84.65	-0.95	-150.23	528.55
70	71	86.23	-0.01	-125.68	791.34
71	71	86.23	-0.01	-125.68	791.34
71	72	87.80	-0.01	-100.26	1028.14
72	72	87.80	0.95	-100.26	1028.14
72	73	89.38	0.85	-73.88	1238.71
73	73	89.38	0.85	-73.88	1238.71
73	74	90.95	0.83	-46.50	1419.59
74	74	90.95	0.00	-46.52	1419.59
74	75	92.53	0.00	-18.11	1566.95
75	75	92.53	0.00	-18.11	1566.95
75	76	94.10	0.00	11.56	1752.96
76	76	94.10	0.00	11.56	1752.96
76	77	95.68	0.00	44.24	1848.25
77	77	95.68	0.00	44.24	1848.25

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27/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.VY+

Rotura.Dominante GRAD. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	78.49	2205.91
78	78	97.25	0.00	78.49	2205.91
78	79	98.83	0.00	126.86	2486.96
79	79	98.83	0.00	126.86	2486.96
79	80	100.40	0.00	176.54	2381.22
80	80	100.40	0.00	176.54	2381.22
80	81	101.98	0.00	227.52	2189.65
81	81	101.98	0.00	227.52	2189.65
81	82	103.55	0.00	279.87	1937.31
82	82	103.55	-0.80	279.83	1937.31
82	83	105.13	-0.90	333.74	1551.26
83	83	105.13	-0.90	333.74	1551.26
83	84	106.70	-0.94	388.80	1064.16
84	84	106.70	0.01	388.83	1064.16
84	85	108.28	0.01	444.92	472.48
85	85	108.28	0.01	444.92	472.48
85	86	109.85	-1.26	501.93	-226.48
86	86	109.85	0.00	502.04	-226.48
86	87	111.43	0.00	559.89	-1034.66
87	87	111.43	0.00	559.89	-1034.66
87	88	112.00	0.00	580.53	-1369.04
88	88	112.00	0.00	580.53	-1369.04
88	89	113.00	0.00	626.20	-1945.09
89	1089	113.00	0.00	-214.70	-429.34
89	90	114.00	0.00	-194.78	-221.37
90	90	114.00	0.00	-194.78	-221.37
90	91	114.58	0.00	-186.32	-106.89
91	91	114.58	0.00	-186.32	-106.89
91	92	116.15	0.00	-162.61	193.63
92	92	116.15	-0.85	-162.53	193.63
92	93	117.73	0.08	-137.96	473.68
93	93	117.73	0.08	-137.96	473.68
93	94	119.30	0.08	-112.45	730.60
94	94	119.30	0.85	-112.42	730.60
94	95	120.88	0.76	-85.89	961.19
95	95	120.88	0.76	-85.89	961.19
95	96	122.45	0.70	-58.34	1161.75
96	96	122.45	0.00	-58.36	1161.75
96	97	124.03	0.00	-29.72	1328.24
97	97	124.03	0.00	-29.72	1328.24
97	98	125.60	0.00	1.06	1517.81
98	98	125.60	0.00	1.06	1517.81
98	99	127.18	0.00	34.33	1633.17
99	99	127.18	0.00	34.33	1633.17
99	100	128.75	0.00	67.54	1680.82
100	100	128.75	0.00	67.54	1680.82
100	101	130.33	0.00	114.72	2307.88
101	101	130.33	0.00	114.72	2307.88
101	102	131.90	0.00	164.72	2219.40
102	102	131.90	0.00	164.72	2219.40
102	103	133.48	0.00	216.02	2044.09

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.VY+

Rotura.Dominante GRAD. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	216.02	2044.09
103	104	135.05	0.00	268.77	1806.33
104	104	135.05	-0.71	268.74	1806.33
104	105	136.63	-0.78	322.89	1435.17
105	105	136.63	-0.78	322.89	1435.17
105	106	138.20	-0.88	378.09	962.86
106	106	138.20	-0.08	378.10	962.86
106	107	139.78	-0.08	434.32	386.09
107	107	139.78	-0.08	434.32	386.09
107	108	141.35	-1.33	491.34	-293.46
108	108	141.35	0.00	491.45	-293.46
108	109	142.93	0.00	549.33	-1085.35
109	109	142.93	0.00	549.33	-1085.35
109	110	143.50	0.00	569.88	-1393.67
110	110	143.50	0.00	569.88	-1393.67
110	111	144.50	0.00	615.66	-1979.81
111	1111	144.50	0.00	-177.86	-87.22
111	112	145.50	0.00	-157.93	84.03
112	112	145.50	0.00	-157.93	84.03
112	113	145.68	0.00	-155.35	112.69
113	113	145.68	0.00	-155.35	112.69
113	114	146.85	0.00	-137.85	299.38
114	114	146.85	-1.55	-137.65	299.38
114	115	148.03	-0.62	-119.58	475.20
115	115	148.03	-0.62	-119.58	475.20
115	116	149.20	-0.62	-100.95	639.11
116	116	149.20	0.68	-101.03	639.11
116	117	150.38	0.59	-81.78	789.83
117	117	150.38	0.59	-81.78	789.83
117	118	151.55	0.51	-61.91	925.76
118	118	151.55	0.00	-61.93	925.76
118	119	152.73	0.00	-41.37	1045.05
119	119	152.73	0.00	-41.37	1045.05
119	120	153.90	0.00	-20.12	1145.67
120	120	153.90	0.00	-20.12	1145.67
120	121	155.08	0.00	2.75	1237.09
121	121	155.08	0.00	2.75	1237.09
121	122	156.25	0.00	25.44	1292.74
122	122	156.25	0.00	25.44	1292.74
122	123	157.43	0.00	54.21	1598.63
123	123	157.43	0.00	54.21	1598.63
123	124	158.60	0.00	83.76	1538.58
124	124	158.60	0.00	83.76	1538.58
124	125	159.78	0.00	118.57	1792.03
125	125	159.78	0.00	118.57	1792.03
125	126	160.95	0.00	156.92	1706.91
126	126	160.95	0.00	156.92	1706.91
126	127	162.13	0.00	196.21	1568.85
127	127	162.13	0.00	196.21	1568.85
127	128	163.30	0.00	236.45	1374.51
128	128	163.30	0.00	236.45	1374.51

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CÁLCULO TENSIONAL

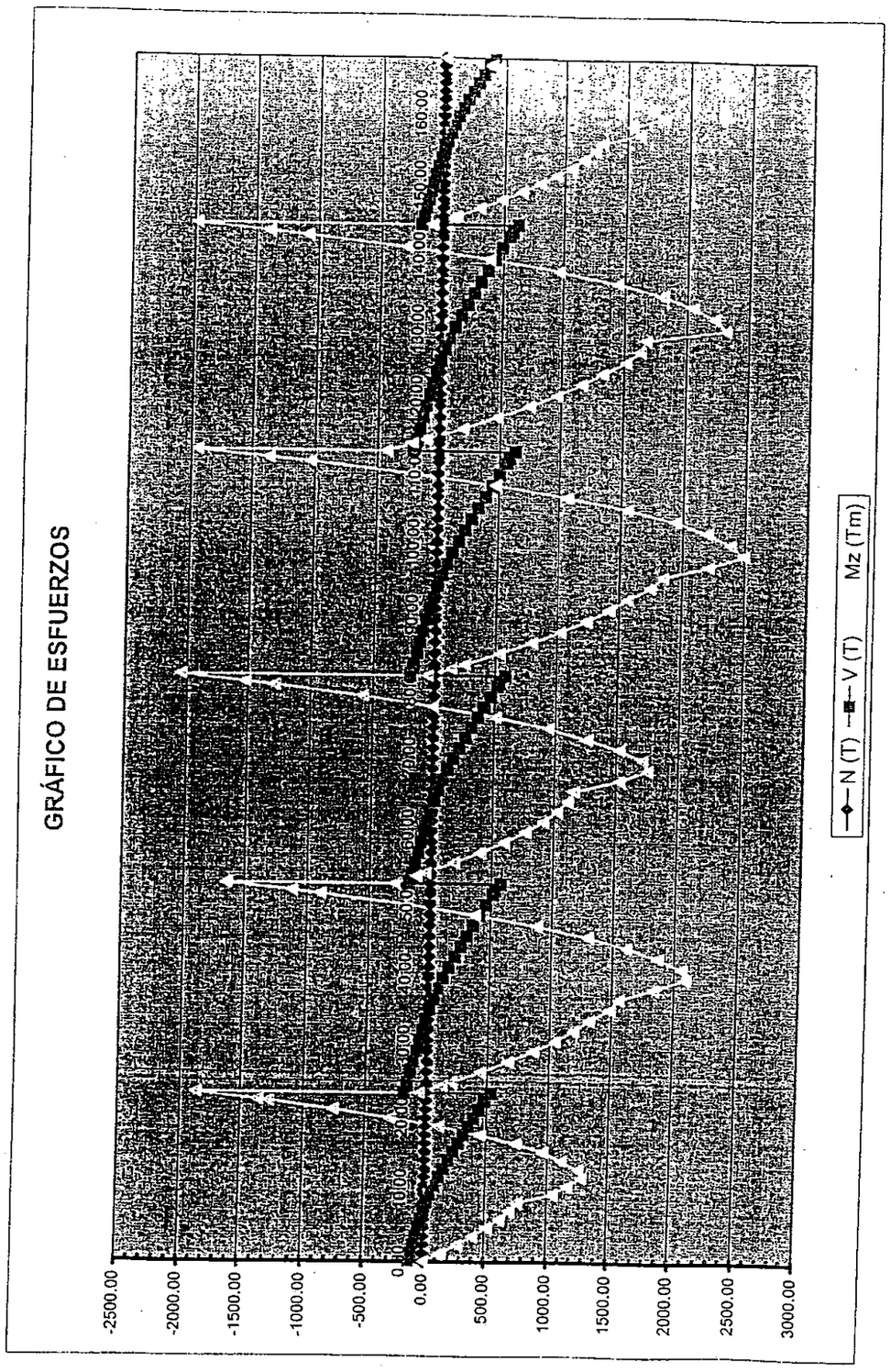
Hipótesis de cálculo:
Rotura.T0.GRAD.VY+

Rotura.Dominante GRAD. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	277.36	1124.59
129	129	164.48	0.00	277.36	1124.59
129	130	165.65	0.00	318.94	817.25
130	130	165.65	0.00	318.94	817.25
130	131	166.83	0.00	361.40	445.00
131	131	166.83	0.00	361.40	445.00
131	132	167.00	0.00	367.90	383.82
132	132	167.00	0.00	367.90	383.82
132	133	168.00	0.00	413.84	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.VY-

Rotura.Dominante GRAD VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.-

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-415.52	0.00
1	2	1.00	0.00	-369.57	385.58
2	2	1.00	0.00	-369.57	385.58
2	3	1.18	0.00	-363.07	446.97
3	3	1.18	0.00	-363.07	446.97
3	4	2.35	0.00	-320.60	821.20
4	4	2.35	0.00	-320.60	821.20
4	5	3.53	0.00	-279.06	1130.58
5	5	3.53	0.00	-279.06	1130.58
5	6	4.70	0.00	-238.19	1382.66
6	6	4.70	0.00	-238.19	1382.66
6	7	5.88	0.00	-197.96	1579.25
7	7	5.88	0.00	-197.96	1579.25
7	8	7.05	0.00	-158.75	1719.76
8	8	7.05	0.00	-158.75	1719.76
8	9	8.23	0.00	-120.45	1807.47
9	9	8.23	0.00	-120.45	1807.47
9	10	9.40	0.00	-84.84	1548.67
10	10	9.40	0.00	-84.84	1548.67
10	11	10.58	0.00	-55.10	1607.91
11	11	10.58	0.00	-55.10	1607.91
11	12	11.75	0.00	-27.22	1313.41
12	12	11.75	0.00	-27.22	1313.41
12	13	12.93	0.00	-3.09	1241.55
13	13	12.93	0.00	-3.09	1241.55
13	14	14.10	0.00	18.81	1164.07
14	14	14.10	0.00	18.81	1164.07
14	15	15.28	0.00	40.21	1062.63
15	15	15.28	0.00	40.21	1062.63
15	16	16.45	0.00	60.72	945.58
16	16	16.45	0.54	60.71	945.58
16	17	17.63	0.61	80.54	811.83
17	17	17.63	0.61	80.54	811.83
17	18	18.80	0.69	99.73	663.21
18	18	18.80	-0.62	99.68	663.21
18	19	19.98	-0.62	118.28	501.24
19	19	19.98	-0.62	118.28	501.24
19	20	21.15	-1.56	136.32	327.27
20	20	21.15	0.00	136.52	327.27
20	21	22.33	0.00	154.03	142.24
21	21	22.33	0.00	154.03	142.24
21	22	22.50	0.00	156.61	113.78
22	22	22.50	0.00	156.61	113.78
22	23	23.50	0.00	176.52	-56.08
23	1023	23.50	0.00	-574.87	-1841.22
23	24	24.50	0.00	-528.41	-1318.18
24	24	24.50	0.00	-528.41	-1318.18
24	25	24.95	0.00	-512.71	-1087.53
25	25	24.95	0.00	-512.71	-1087.53
25	26	26.40	0.00	-459.88	-391.89
26	26	26.40	-1.35	-459.73	-391.89

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.VY-

Rotura.Dominante GRAD VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.10	-407.06	173.62
27	27	27.85	-0.10	-407.06	173.62
27	28	29.30	-0.10	-355.60	677.74
28	28	29.30	-0.92	-355.58	677.74
28	29	30.75	-0.86	-305.21	1104.92
29	29	30.75	-0.86	-305.21	1104.92
29	30	32.20	-0.79	-255.14	1416.94
30	30	32.20	0.00	-255.16	1416.94
30	31	33.65	0.00	-206.42	1671.62
31	31	33.65	0.00	-206.42	1671.62
31	32	35.10	0.00	-158.94	1855.93
32	32	35.10	0.00	-158.94	1855.93
32	33	36.55	0.00	-112.45	1885.65
33	33	36.55	0.00	-112.45	1885.65
33	34	38.00	0.00	-68.36	1396.79
34	34	38.00	0.00	-68.36	1396.79
34	35	39.45	0.00	-36.61	1340.34
35	35	39.45	0.00	-36.61	1340.34
35	36	40.90	0.00	-6.87	1212.83
36	36	40.90	0.00	-6.87	1212.83
36	37	42.35	0.00	20.42	1115.04
37	37	42.35	0.00	20.42	1115.04
37	38	43.80	0.00	46.71	984.94
38	38	43.80	0.77	46.70	984.94
38	39	45.25	0.82	72.03	826.02
39	39	45.25	0.82	72.03	826.02
39	40	46.70	0.91	96.41	641.56
40	40	46.70	0.10	96.44	641.56
40	41	48.15	0.10	119.91	434.63
41	41	48.15	0.10	119.91	434.63
41	42	49.60	-0.84	142.53	207.95
42	42	49.60	0.00	142.61	207.95
42	43	51.05	0.00	164.39	-36.30
43	43	51.05	0.00	164.39	-36.30
43	44	51.50	0.00	171.03	-115.47
44	44	51.50	0.00	171.03	-115.47
44	45	52.50	0.00	190.95	-299.69
45	1045	52.50	0.00	-576.16	-1648.50
45	46	53.50	0.00	-529.72	-1125.22
46	46	53.50	0.00	-529.72	-1125.22
46	47	53.95	0.00	-514.01	-894.01
47	47	53.95	0.00	-514.01	-894.01
47	48	55.40	0.00	-461.17	-195.99
48	48	55.40	-1.23	-461.03	-195.99
48	49	56.85	0.02	-408.40	370.80
49	49	56.85	0.02	-408.40	370.80
49	50	58.30	0.02	-356.90	876.29
50	50	58.30	-0.95	-356.90	876.29
50	51	59.75	-0.89	-306.53	1304.79
51	51	59.75	-0.89	-306.53	1304.79
51	52	61.20	-0.81	-256.53	1616.15

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.VY-

Rotura.Dominante GRAD VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-256.54	1616.15
52	53	62.65	0.00	-207.79	1871.66
53	53	62.65	0.00	-207.79	1871.66
53	54	64.10	0.00	-160.29	2056.92
54	54	64.10	0.00	-160.29	2056.92
54	55	65.55	0.00	-113.69	2083.84
55	55	65.55	0.00	-113.69	2083.84
55	56	67.00	0.00	-70.60	1598.73
56	56	67.00	0.00	-70.60	1598.73
56	57	68.45	0.00	-38.56	1551.12
57	57	68.45	0.00	-38.56	1551.12
57	58	69.90	0.00	-10.03	1425.27
58	58	69.90	0.00	-10.03	1425.27
58	59	71.35	0.00	17.29	1330.46
59	59	71.35	0.00	17.29	1330.46
59	60	72.80	0.00	43.61	1203.40
60	60	72.80	0.81	43.60	1203.40
60	61	74.25	0.86	68.93	1047.63
61	61	74.25	0.86	68.93	1047.63
61	62	75.70	0.95	93.33	866.51
62	62	75.70	-0.02	93.34	866.51
62	63	77.15	-0.02	116.82	663.14
63	63	77.15	-0.02	116.82	663.14
63	64	78.60	-0.96	139.43	440.31
64	64	78.60	0.00	139.53	440.31
64	65	80.05	0.00	161.36	200.20
65	65	80.05	0.00	161.36	200.20
65	66	80.50	0.00	167.97	122.39
66	66	80.50	0.00	167.97	122.39
66	67	81.50	0.00	187.90	-58.87
67	1067	81.50	0.00	-618.26	-2068.48
67	68	82.50	0.00	-572.52	-1498.66
68	68	82.50	0.00	-572.52	-1498.66
68	69	83.08	0.00	-551.94	-1170.19
69	69	83.08	0.00	-551.94	-1170.19
69	70	84.65	0.00	-494.09	-374.32
70	70	84.65	-1.27	-493.95	-374.32
70	71	86.23	-0.02	-436.93	309.91
71	71	86.23	-0.02	-436.93	309.91
71	72	87.80	-0.02	-380.76	889.94
72	72	87.80	-0.88	-380.76	889.94
72	73	89.38	-0.83	-325.59	1365.34
73	73	89.38	-0.83	-325.59	1365.34
73	74	90.95	-0.72	-271.53	1739.51
74	74	90.95	0.00	-271.57	1739.51
74	75	92.53	0.00	-218.94	1979.79
75	75	92.53	0.00	-218.94	1979.79
75	76	94.10	0.00	-167.75	2158.42
76	76	94.10	0.00	-167.75	2158.42
76	77	95.68	0.00	-117.86	2250.45
77	77	95.68	0.00	-117.86	2250.45

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.VY-
Rotura.Dominante GRAD VY-. T0
[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1..
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	-70.61	1629.95
78	78	97.25	0.00	-70.61	1629.95
78	79	98.83	0.00	-37.50	1586.36
79	79	98.83	0.00	-37.50	1586.36
79	80	100.40	0.00	-4.33	1475.36
80	80	100.40	0.00	-4.33	1475.36
80	81	101.98	0.00	25.71	1286.42
81	81	101.98	0.00	25.71	1286.42
81	82	103.55	0.00	54.27	1126.02
82	82	103.55	0.74	54.25	1126.02
82	83	105.13	0.79	81.74	931.80
83	83	105.13	0.79	81.74	931.80
83	84	106.70	0.89	108.25	707.66
84	84	106.70	0.02	108.26	707.66
84	85	108.28	0.02	133.75	457.30
85	85	108.28	0.02	133.75	457.30
85	86	109.85	-0.92	158.31	183.89
86	86	109.85	0.00	158.39	183.89
86	87	111.43	0.00	182.08	-109.89
87	87	111.43	0.00	182.08	-109.89
87	88	112.00	0.00	190.52	-221.97
88	88	112.00	0.00	190.52	-221.97
88	89	113.00	0.00	210.44	-425.66
89	1089	113.00	0.00	-624.33	-1944.12
89	90	114.00	0.00	-578.70	-1370.03
90	90	114.00	0.00	-578.70	-1370.03
90	91	114.58	0.00	-558.01	-1036.69
91	91	114.58	0.00	-558.01	-1036.69
91	92	116.15	0.00	-500.18	-231.38
92	92	116.15	-1.22	-500.07	-231.38
92	93	117.73	0.04	-443.06	464.67
93	93	117.73	0.04	-443.06	464.67
93	94	119.30	0.04	-387.02	1053.49
94	94	119.30	-0.91	-386.98	1053.49
94	95	120.88	-0.88	-331.98	1537.90
95	95	120.88	-0.88	-331.98	1537.90
95	96	122.45	-0.80	-278.13	1921.50
96	96	122.45	0.00	-278.17	1921.50
96	97	124.03	0.00	-226.03	2172.23
97	97	124.03	0.00	-226.03	2172.23
97	98	125.60	0.00	-175.15	2362.25
98	98	125.60	0.00	-175.15	2362.25
98	99	127.18	0.00	-125.62	2467.06
99	99	127.18	0.00	-125.62	2467.06
99	100	128.75	0.00	-77.40	2185.63
100	100	128.75	0.00	-77.40	2185.63
100	101	130.33	0.00	-43.10	1824.90
101	101	130.33	0.00	-43.10	1824.90
101	102	131.90	0.00	-10.24	1650.59
102	102	131.90	0.00	-10.24	1650.59
102	103	133.48	0.00	19.17	1540.20

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Programa DINTEL IDEAM S.A.
Rotura.T0.GRAD.VY-

27/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.GRAD.VY-
Rotura.Dominante GRAD VY-. T0
[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1..
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	19.17	1540.20
103	104	135.05	0.00	47.53	1392.46
104	104	135.05	0.81	47.51	1392.46
104	105	136.63	0.87	74.81	1211.25
105	105	136.63	0.87	74.81	1211.25
105	106	138.20	0.93	101.13	1000.35
106	106	138.20	-0.04	101.13	1000.35
106	107	139.78	-0.04	126.49	763.13
107	107	139.78	-0.04	126.49	763.13
107	108	141.35	-1.00	151.05	498.53
108	108	141.35	0.00	151.14	498.53
108	109	142.93	0.00	174.80	216.83
109	109	142.93	0.00	174.80	216.83
109	110	143.50	0.00	183.24	109.08
110	110	143.50	0.00	183.24	109.08
110	111	144.50	0.00	203.15	-87.21
111	1111	144.50	0.00	-534.45	-1987.62
111	112	145.50	0.00	-489.71	-1478.97
112	112	145.50	0.00	-489.71	-1478.97
112	113	145.68	0.00	-483.60	-1395.17
113	113	145.68	0.00	-483.60	-1395.17
113	114	146.85	0.00	-440.43	-866.62
114	114	146.85	-2.02	-440.17	-866.62
114	115	148.03	-0.77	-397.34	-398.72
115	115	148.03	-0.77	-397.34	-398.72
115	116	149.20	-0.77	-354.96	9.16
116	116	149.20	-1.67	-355.05	9.16
116	117	150.38	-1.59	-313.13	357.82
117	117	150.38	-1.59	-313.13	357.82
117	118	151.55	-1.53	-272.13	649.58
118	118	151.55	0.00	-272.18	649.58
118	119	152.73	0.00	-232.23	877.35
119	119	152.73	0.00	-232.23	877.35
119	120	153.90	0.00	-192.65	1042.11
120	120	153.90	0.00	-192.65	1042.11
120	121	155.08	0.00	-154.05	1189.36
121	121	155.08	0.00	-154.05	1189.36
121	122	156.25	0.00	-116.23	1219.18
122	122	156.25	0.00	-116.23	1219.18
122	123	157.43	0.00	-82.01	1113.53
123	123	157.43	0.00	-82.01	1113.53
123	124	158.60	0.00	-49.53	981.97
124	124	158.60	0.00	-49.53	981.97
124	125	159.78	0.00	-23.76	710.59
125	125	159.78	0.00	-23.76	710.59
125	126	160.95	0.00	-1.42	656.56
126	126	160.95	0.00	-1.42	656.56
126	127	162.13	0.00	20.11	582.04
127	127	162.13	0.00	20.11	582.04
127	128	163.30	0.00	40.80	489.85
128	128	163.30	0.00	40.80	489.85

CÁLCULO TENSIONAL

Hipótesis de cálculo:

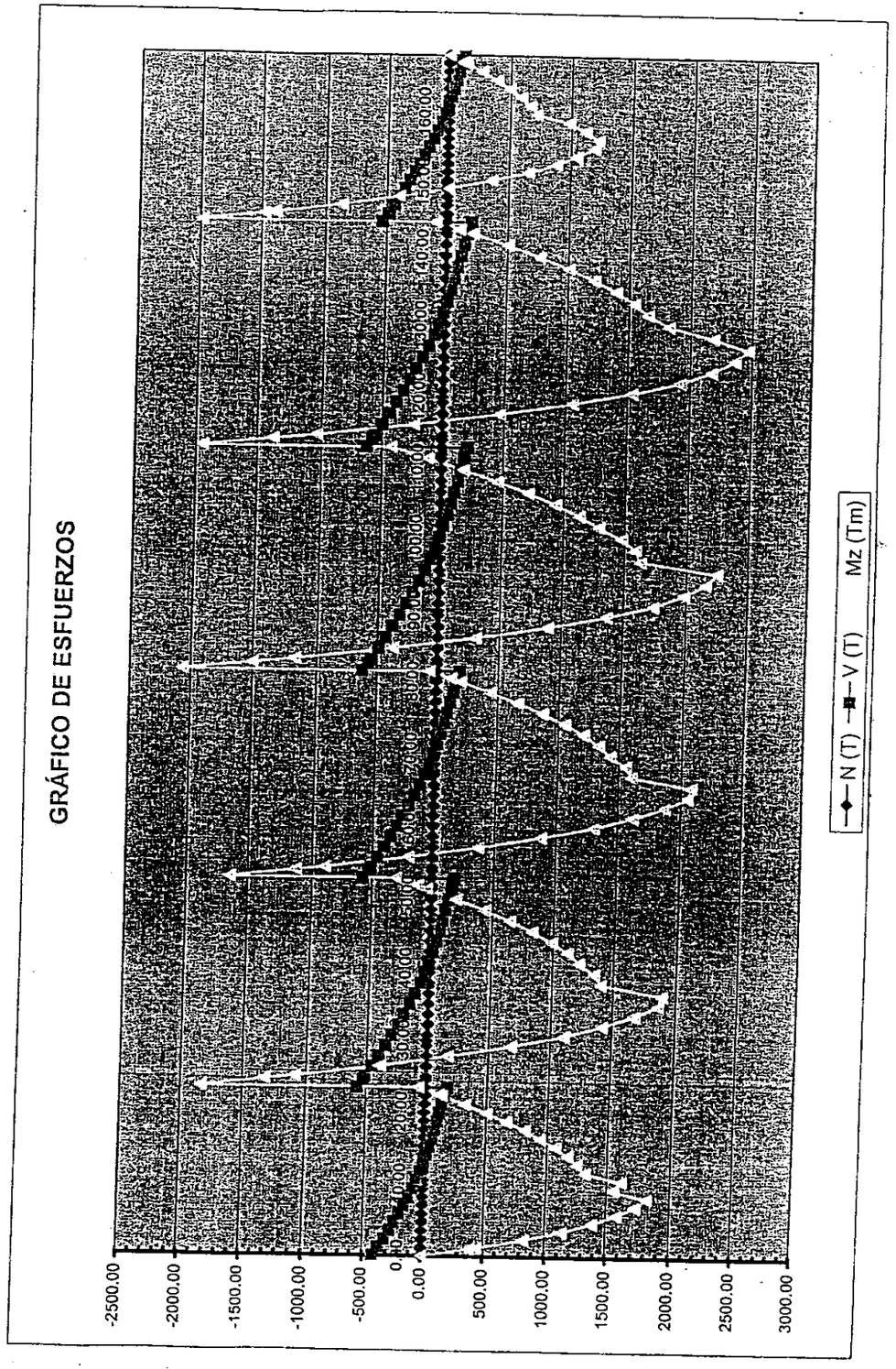
Rotura.T0.GRAD.VY-

Rotura.Dominante GRAD VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.:

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	60.65	382.93
129	129	164.48	0.00	60.65	382.93
129	130	165.65	0.00	79.65	264.20
130	130	165.65	0.00	79.65	264.20
130	131	166.83	0.00	97.79	136.67
131	131	166.83	0.00	97.79	136.67
131	132	167.00	0.00	100.41	117.08
132	132	167.00	0.00	100.41	117.08
132	133	168.00	0.00	121.79	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.VY+

Rotura.Dominante IPF75B. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-110.30	0.00
1	2	1.00	0.00	-88.72	109.54
2	2	1.00	0.00	-88.72	109.54
2	3	1.18	0.00	-86.01	128.52
3	3	1.18	0.00	-86.01	128.52
3	4	2.35	0.00	-66.97	257.16
4	4	2.35	0.00	-66.97	257.16
4	5	3.53	0.00	-46.50	384.21
5	5	3.53	0.00	-46.50	384.21
5	6	4.70	0.00	-24.62	504.66
6	6	4.70	0.00	-24.62	504.66
6	7	5.88	0.00	-1.32	613.55
7	7	5.88	0.00	-1.32	613.55
7	8	7.05	0.00	23.40	705.97
8	8	7.05	0.00	23.40	705.97
8	9	8.23	0.00	49.48	777.15
9	9	8.23	0.00	49.48	777.15
9	10	9.40	0.00	78.45	1073.54
10	10	9.40	0.00	78.45	1073.54
10	11	10.58	0.00	117.88	1293.67
11	11	10.58	0.00	117.88	1293.67
11	12	11.75	0.00	158.84	1400.14
12	12	11.75	0.00	158.84	1400.14
12	13	12.93	0.00	204.27	1381.73
13	13	12.93	0.00	204.27	1381.73
13	14	14.10	0.00	250.67	1208.90
14	14	14.10	0.00	250.67	1208.90
14	15	15.28	0.00	298.92	1023.59
15	15	15.28	0.00	298.92	1023.59
15	16	16.45	0.00	347.62	756.86
16	16	16.45	-2.42	347.60	756.86
16	17	17.63	-2.60	398.03	404.71
17	17	17.63	-2.60	398.03	404.71
17	18	18.80	-2.79	449.97	-21.02
18	18	18.80	-0.76	449.91	-21.02
18	19	19.98	-0.76	502.59	-523.85
19	19	19.98	-0.76	502.59	-523.85
19	20	21.15	-2.03	555.95	-1105.01
20	20	21.15	0.00	556.21	-1105.01
20	21	22.33	0.00	610.22	-1765.75
21	21	22.33	0.00	610.22	-1765.75
21	22	22.50	0.00	617.75	-1871.05
22	22	22.50	0.00	617.75	-1871.05
22	23	23.50	0.00	672.06	-2509.03
23	1023	23.50	0.00	-171.99	-97.53
23	24	24.50	0.00	-151.99	69.77
24	24	24.50	0.00	-151.99	69.77
24	25	24.95	0.00	-145.29	142.61
25	25	24.95	0.00	-145.29	142.61
25	26	26.40	0.00	-122.86	372.39
26	26	26.40	-1.01	-122.74	372.39

cortante.xls

Programa DINTEL IDEAM S.A.
Rotura.T0.IPF75B.VY+

27/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.VY+

Rotura.Dominante IPF75B. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.07	-98.97	595.57
27	27	27.85	-0.07	-98.97	595.57
27	28	29.30	-0.07	-73.91	802.56
28	28	29.30	1.15	-73.90	802.56
28	29	30.75	1.07	-47.33	992.31
29	29	30.75	1.07	-47.33	992.31
29	30	32.20	1.06	-19.27	1159.99
30	30	32.20	0.00	-19.28	1159.99
30	31	33.65	0.00	10.43	1300.33
31	31	33.65	0.00	10.43	1300.33
31	32	35.10	0.00	42.11	1521.64
32	32	35.10	0.00	42.11	1521.64
32	33	36.55	0.00	77.22	1614.72
33	33	36.55	0.00	77.22	1614.72
33	34	38.00	0.00	114.65	1915.86
34	34	38.00	0.00	114.65	1915.86
34	35	39.45	0.00	165.62	2163.78
35	35	39.45	0.00	165.62	2163.78
35	36	40.90	0.00	219.78	2161.43
36	36	40.90	0.00	219.78	2161.43
36	37	42.35	0.00	276.59	1936.27
37	37	42.35	0.00	276.59	1936.27
37	38	43.80	0.00	335.46	1626.96
38	38	43.80	-1.59	335.43	1626.96
38	39	45.25	-1.75	396.34	1257.62
39	39	45.25	-1.75	396.34	1257.62
39	40	46.70	-1.91	458.04	725.39
40	40	46.70	0.07	458.07	725.39
40	41	48.15	0.07	521.64	97.36
41	41	48.15	0.07	521.64	97.36
41	42	49.60	-1.20	587.07	-602.27
42	42	49.60	0.00	587.19	-602.27
42	43	51.05	0.00	653.11	-1486.86
43	43	51.05	0.00	653.11	-1486.86
43	44	51.50	0.00	672.41	-1778.96
44	44	51.50	0.00	672.41	-1778.96
44	45	52.50	0.00	729.55	-2429.96
45	1045	52.50	0.00	-160.67	-145.69
45	46	53.50	0.00	-140.66	10.33
46	46	53.50	0.00	-140.66	10.33
46	47	53.95	0.00	-133.96	78.20
47	47	53.95	0.00	-133.96	78.20
47	48	55.40	0.00	-111.52	292.07
48	48	55.40	-0.91	-111.42	292.07
48	49	56.85	0.02	-87.66	498.54
49	49	56.85	0.02	-87.66	498.54
49	50	58.30	0.02	-62.53	690.83
50	50	58.30	1.22	-62.53	690.83
50	51	59.75	1.17	-35.95	866.23
51	51	59.75	1.17	-35.95	866.23
51	52	61.20	1.14	-7.82	1019.79

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.VY+

Rotura.Dominante IPF75B. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-7.83	1019.79
52	53	62.65	0.00	21.90	1146.14
53	53	62.65	0.00	21.90	1146.14
53	54	64.10	0.00	53.25	1239.64
54	54	64.10	0.00	53.25	1239.64
54	55	65.55	0.00	86.24	1294.27
55	55	65.55	0.00	86.24	1294.27
55	56	67.00	0.00	125.74	1724.86
56	56	67.00	0.00	125.74	1724.86
56	57	68.45	0.00	176.79	1948.69
57	57	68.45	0.00	176.79	1948.69
57	58	69.90	0.00	231.29	1938.49
58	58	69.90	0.00	231.29	1938.49
58	59	71.35	0.00	288.15	1698.32
59	59	71.35	0.00	288.15	1698.32
59	60	72.80	0.00	347.03	1374.12
60	60	72.80	-1.69	347.01	1374.12
60	61	74.25	-1.86	407.81	991.91
61	61	74.25	-1.86	407.81	991.91
61	62	75.70	-2.01	469.49	443.83
62	62	75.70	-0.02	469.53	443.83
62	63	77.15	-0.02	533.10	-200.01
63	63	77.15	-0.02	533.10	-200.01
63	64	78.60	-1.29	598.40	-913.35
64	64	78.60	0.00	598.53	-913.35
64	65	80.05	0.00	664.58	-1815.28
65	65	80.05	0.00	664.58	-1815.28
65	66	80.50	0.00	683.86	-2112.48
66	66	80.50	0.00	683.86	-2112.48
66	67	81.50	0.00	740.97	-2773.34
67	1067	81.50	0.00	-184.66	-10.29
67	68	82.50	0.00	-164.67	169.68
68	68	82.50	0.00	-164.67	169.68
68	69	83.08	0.00	-156.09	270.00
69	69	83.08	0.00	-156.09	270.00
69	70	84.65	0.00	-131.75	538.78
70	70	84.65	-0.95	-131.65	538.78
70	71	86.23	-0.01	-105.83	799.75
71	71	86.23	-0.01	-105.83	799.75
71	72	87.80	-0.01	-78.53	1043.05
72	72	87.80	1.14	-78.52	1043.05
72	73	89.38	1.07	-49.63	1266.37
73	73	89.38	1.07	-49.63	1266.37
73	74	90.95	1.08	-19.06	1463.93
74	74	90.95	0.00	-19.08	1463.93
74	75	92.53	0.00	13.21	1629.35
75	75	92.53	0.00	13.21	1629.35
75	76	94.10	0.00	47.58	1882.89
76	76	94.10	0.00	47.58	1882.89
76	77	95.68	0.00	86.99	2008.97
77	77	95.68	0.00	86.99	2008.97

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.VY+

Rotura.Dominante IPF75B. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	128.13	2379.44
78	78	97.25	0.00	128.13	2379.44
78	79	98.83	0.00	184.69	2666.86
79	79	98.83	0.00	184.69	2666.86
79	80	100.40	0.00	243.45	2551.73
80	80	100.40	0.00	243.45	2551.73
80	81	101.98	0.00	304.35	2331.41
81	81	101.98	0.00	304.35	2331.41
81	82	103.55	0.00	367.54	2047.68
82	82	103.55	-1.57	367.50	2047.68
82	83	105.13	-1.78	433.30	1578.99
83	83	105.13	-1.78	433.30	1578.99
83	84	106.70	-1.93	500.99	979.75
84	84	106.70	0.01	501.02	979.75
84	85	108.28	0.01	570.45	244.13
85	85	108.28	0.01	570.45	244.13
85	86	109.85	-1.26	641.43	-632.35
86	86	109.85	0.00	641.54	-632.35
86	87	111.43	0.00	713.89	-1652.93
87	87	111.43	0.00	713.89	-1652.93
87	88	112.00	0.00	739.52	-2081.59
88	88	112.00	0.00	739.52	-2081.59
88	89	113.00	0.00	795.45	-2803.59
89	1089	113.00	0.00	-202.59	-315.81
89	90	114.00	0.00	-182.58	-117.83
90	90	114.00	0.00	-182.58	-117.83
90	91	114.58	0.00	-173.98	-7.12
91	91	114.58	0.00	-173.98	-7.12
91	92	116.15	0.00	-149.53	290.52
92	92	116.15	-0.85	-149.46	290.52
92	93	117.73	0.08	-123.57	577.83
93	93	117.73	0.08	-123.57	577.83
93	94	119.30	0.08	-96.10	850.38
94	94	119.30	1.00	-96.08	850.38
94	95	120.88	0.93	-66.93	1102.76
95	95	120.88	0.93	-66.93	1102.76
95	96	122.45	0.90	-36.08	1328.79
96	96	122.45	0.00	-36.10	1328.79
96	97	124.03	0.00	-3.44	1521.78
97	97	124.03	0.00	-3.44	1521.78
97	98	125.60	0.00	32.80	1776.97
98	98	125.60	0.00	32.80	1776.97
98	99	127.18	0.00	73.20	1932.19
99	99	127.18	0.00	73.20	1932.19
99	100	128.75	0.00	113.48	1998.28
100	100	128.75	0.00	113.48	1998.28
100	101	130.33	0.00	169.08	2636.68
101	101	130.33	0.00	169.08	2636.68
101	102	131.90	0.00	228.37	2542.98
102	102	131.90	0.00	228.37	2542.98
102	103	133.48	0.00	289.81	2342.46

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.VY+

Rotura.Dominante IPF75B. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	289.81	2342.46
103	104	135.05	0.00	353.67	2075.71
104	104	135.05	-1.47	353.64	2075.71
104	105	136.63	-1.63	419.83	1624.56
105	105	136.63	-1.63	419.83	1624.56
105	106	138.20	-1.86	487.78	1042.67
106	106	138.20	-0.08	487.78	1042.67
106	107	139.78	-0.08	557.44	324.57
107	107	139.78	-0.08	557.44	324.57
107	108	141.35	-1.33	628.46	-529.52
108	108	141.35	0.00	628.58	-529.52
108	109	142.93	0.00	700.97	-1530.33
109	109	142.93	0.00	700.97	-1530.33
109	110	143.50	0.00	726.46	-1918.27
110	110	143.50	0.00	726.46	-1918.27
110	111	144.50	0.00	782.59	-2661.76
111	1111	144.50	0.00	-179.01	-114.14
111	112	145.50	0.00	-158.98	60.44
112	112	145.50	0.00	-158.98	60.44
112	113	145.68	0.00	-156.36	90.14
113	113	145.68	0.00	-156.36	90.14
113	114	146.85	0.00	-138.42	287.39
114	114	146.85	-1.55	-138.22	287.39
114	115	148.03	-0.62	-119.36	479.76
115	115	148.03	-0.62	-119.36	479.76
115	116	149.20	-0.62	-99.55	665.54
116	116	149.20	0.70	-99.63	665.54
116	117	150.38	0.63	-78.78	842.57
117	117	150.38	0.63	-78.78	842.57
117	118	151.55	0.58	-56.90	1008.13
118	118	151.55	0.00	-56.92	1008.13
118	119	152.73	0.00	-33.90	1159.17
119	119	152.73	0.00	-33.90	1159.17
119	120	153.90	0.00	-9.72	1292.28
120	120	153.90	0.00	-9.72	1292.28
120	121	155.08	0.00	17.16	1423.27
121	121	155.08	0.00	17.16	1423.27
121	122	156.25	0.00	43.75	1507.86
122	122	156.25	0.00	43.75	1507.86
122	123	157.43	0.00	78.63	1907.51
123	123	157.43	0.00	78.63	1907.51
123	124	158.60	0.00	114.66	1828.97
124	124	158.60	0.00	114.66	1828.97
124	125	159.78	0.00	156.48	2128.74
125	125	159.78	0.00	156.48	2128.74
125	126	160.95	0.00	202.45	2045.78
126	126	160.95	0.00	202.45	2045.78
126	127	162.13	0.00	249.99	1895.64
127	127	162.13	0.00	249.99	1895.64
127	128	163.30	0.00	299.11	1672.79
128	128	163.30	0.00	299.11	1672.79

CÁLCULO TENSIONAL

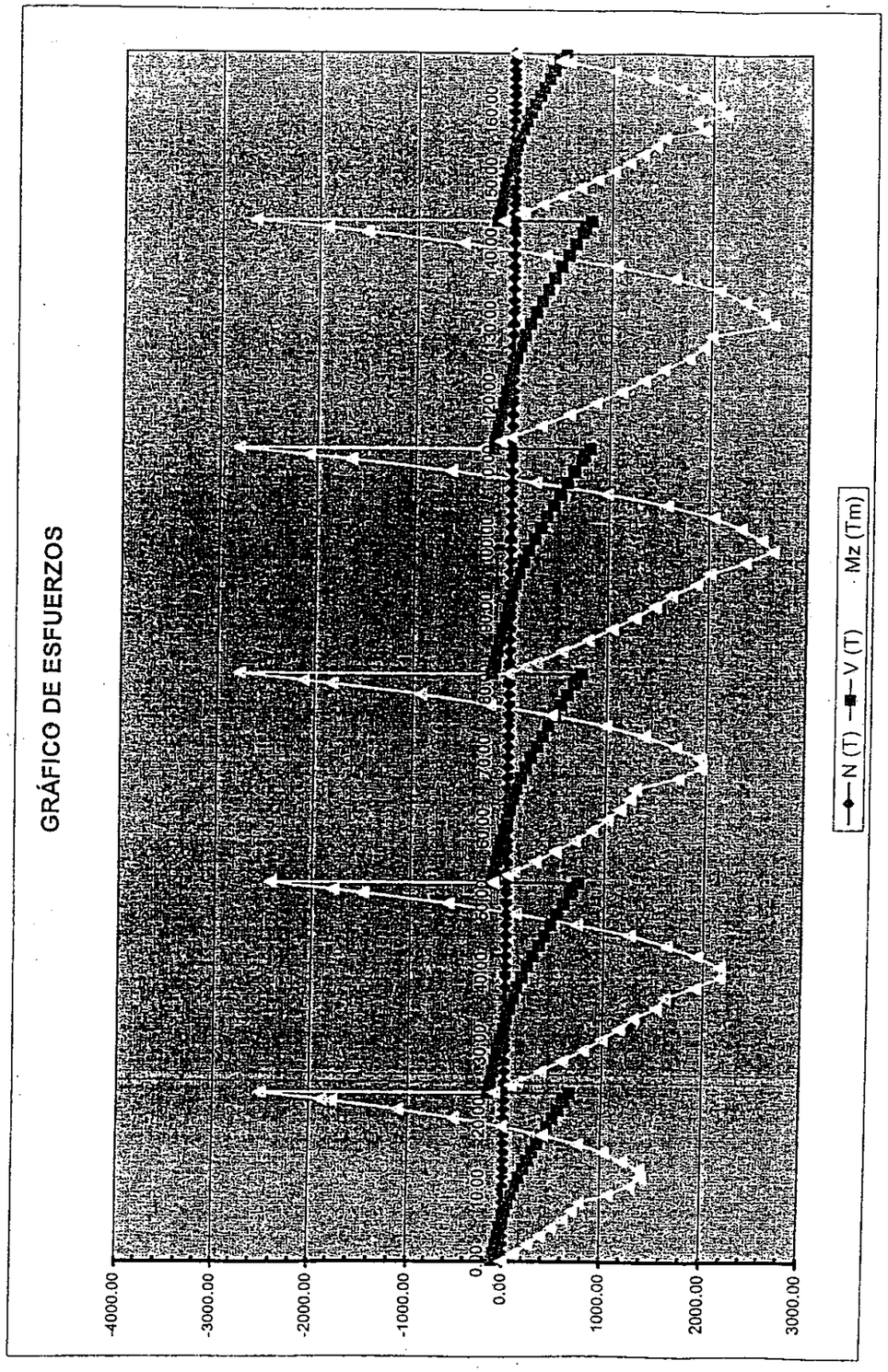
Hipótesis de cálculo:
Rotura.T0.IPF75B.VY+

Rotura.Dominante IPF75B. VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	349.36	1378.38
129	129	164.48	0.00	349.36	1378.38
129	130	165.65	0.00	400.70	1009.38
130	130	165.65	0.00	400.70	1009.38
130	131	166.83	0.00	453.52	553.25
131	131	166.83	0.00	453.52	553.25
131	132	167.00	0.00	461.70	477.60
132	132	167.00	0.00	461.70	477.60
132	133	168.00	0.00	516.95	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.IPF75B.VY-

Rotura.Dominante IPF75B. VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1..

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-517.49	0.00
1	2	1.00	0.00	-462.24	478.24
2	2	1.00	0.00	-462.24	478.24
2	3	1.18	0.00	-454.07	553.88
3	3	1.18	0.00	-454.07	553.88
3	4	2.35	0.00	-401.22	1010.68
4	4	2.35	0.00	-401.22	1010.68
4	5	3.53	0.00	-349.94	1380.45
5	5	3.53	0.00	-349.94	1380.45
5	6	4.70	0.00	-299.76	1675.81
6	6	4.70	0.00	-299.76	1675.81
6	7	5.88	0.00	-250.67	1899.77
7	7	5.88	0.00	-250.67	1899.77
7	8	7.05	0.00	-203.24	2051.34
8	8	7.05	0.00	-203.24	2051.34
8	9	8.23	0.00	-157.36	2136.00
9	9	8.23	0.00	-157.36	2136.00
9	10	9.40	0.00	-114.95	1831.64
10	10	9.40	0.00	-114.95	1831.64
10	11	10.58	0.00	-78.61	1907.08
11	11	10.58	0.00	-78.61	1907.08
11	12	11.75	0.00	-45.21	1524.66
12	12	11.75	0.00	-45.21	1524.66
12	13	12.93	0.00	-16.22	1411.27
13	13	12.93	0.00	-16.22	1411.27
13	14	14.10	0.00	9.05	1301.76
14	14	14.10	0.00	9.05	1301.76
14	15	15.28	0.00	33.48	1165.51
15	15	15.28	0.00	33.48	1165.51
15	16	16.45	0.00	56.42	1016.44
16	16	16.45	0.59	56.41	1016.44
16	17	17.63	0.63	78.22	852.74
17	17	17.63	0.63	78.22	852.74
17	18	18.80	0.70	98.98	677.46
18	18	18.80	-0.62	98.92	677.46
18	19	19.98	-0.62	118.69	493.15
19	19	19.98	-0.62	118.69	493.15
19	20	21.15	-1.56	137.52	302.06
20	20	21.15	0.00	137.72	302.06
20	21	22.33	0.00	155.67	105.83
21	21	22.33	0.00	155.67	105.83
21	22	22.50	0.00	158.29	76.23
22	22	22.50	0.00	158.29	76.23
22	23	23.50	0.00	178.29	-97.55
23	1023	23.50	0.00	-731.42	-2469.59
23	24	24.50	0.00	-674.14	-1814.49
24	24	24.50	0.00	-674.14	-1814.49
24	25	24.95	0.00	-654.84	-1521.46
25	25	24.95	0.00	-654.84	-1521.46
25	26	26.40	0.00	-588.94	-635.52
26	26	26.40	-1.35	-588.78	-635.52

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.VY-

Rotura.Dominante IPF75B. VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1..

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.10	-523.12	67.72
27	27	27.85	-0.10	-523.12	67.72
27	28	29.30	-0.10	-459.48	698.77
28	28	29.30	-1.92	-459.45	698.77
28	29	30.75	-1.73	-397.66	1233.66
29	29	30.75	-1.73	-397.66	1233.66
29	30	32.20	-1.57	-336.35	1608.76
30	30	32.20	0.00	-336.37	1608.76
30	31	33.65	0.00	-277.29	1920.38
31	31	33.65	0.00	-277.29	1920.38
31	32	35.10	0.00	-220.29	2146.83
32	32	35.10	0.00	-220.29	2146.83
32	33	36.55	0.00	-164.96	2147.76
33	33	36.55	0.00	-164.96	2147.76
33	34	38.00	0.00	-113.58	1657.76
34	34	38.00	0.00	-113.58	1657.76
34	35	39.45	0.00	-74.56	1581.04
35	35	39.45	0.00	-74.56	1581.04
35	36	40.90	0.00	-38.86	1398.20
36	36	40.90	0.00	-38.86	1398.20
36	37	42.35	0.00	-7.23	1285.01
37	37	42.35	0.00	-7.23	1285.01
37	38	43.80	0.00	22.71	1138.07
38	38	43.80	1.00	22.70	1138.07
38	39	45.25	1.02	51.04	963.22
39	39	45.25	1.02	51.04	963.22
39	40	46.70	1.09	77.81	765.89
40	40	46.70	0.10	77.84	765.89
40	41	48.15	0.10	103.10	551.23
41	41	48.15	0.10	103.10	551.23
41	42	49.60	-0.84	126.92	323.80
42	42	49.60	0.00	126.99	323.80
42	43	51.05	0.00	149.45	87.25
43	43	51.05	0.00	149.45	87.25
43	44	51.50	0.00	156.20	12.32
44	44	51.50	0.00	156.20	12.32
44	45	52.50	0.00	176.21	-159.28
45	1045	52.50	0.00	-735.20	-2433.84
45	46	53.50	0.00	-677.97	-1776.68
46	46	53.50	0.00	-677.97	-1776.68
46	47	53.95	0.00	-658.64	-1482.00
47	47	53.95	0.00	-658.64	-1482.00
47	48	55.40	0.00	-592.71	-589.70
48	48	55.40	-1.23	-592.58	-589.70
48	49	56.85	0.02	-526.99	117.13
49	49	56.85	0.02	-526.99	117.13
49	50	58.30	0.02	-463.31	752.84
50	50	58.30	-1.98	-463.31	752.84
50	51	59.75	-1.80	-401.50	1292.36
51	51	59.75	-1.80	-401.50	1292.36
51	52	61.20	-1.62	-340.32	1668.77

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.VY-

Rotura.Dominante IPF75B. VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1..

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-340.34	1668.77
52	53	62.65	0.00	-281.23	1984.18
53	53	62.65	0.00	-281.23	1984.18
53	54	64.10	0.00	-224.22	2214.64
54	54	64.10	0.00	-224.22	2214.64
54	55	65.55	0.00	-168.69	2213.29
55	55	65.55	0.00	-168.69	2213.29
55	56	67.00	0.00	-118.30	1729.22
56	56	67.00	0.00	-118.30	1729.22
56	57	68.45	0.00	-78.76	1660.85
57	57	68.45	0.00	-78.76	1660.85
57	58	69.90	0.00	-45.07	1482.18
58	58	69.90	0.00	-45.07	1482.18
58	59	71.35	0.00	-13.41	1375.34
59	59	71.35	0.00	-13.41	1375.34
59	60	72.80	0.00	16.58	1234.87
60	60	72.80	1.07	16.57	1234.87
60	61	74.25	1.10	44.92	1066.66
61	61	74.25	1.10	44.92	1066.66
61	62	75.70	1.17	71.72	876.31
62	62	75.70	-0.02	71.73	876.31
62	63	77.15	-0.02	96.99	668.98
63	63	77.15	-0.02	96.99	668.98
63	64	78.60	-0.96	120.81	449.37
64	64	78.60	0.00	120.91	449.37
64	65	80.05	0.00	143.42	221.11
65	65	80.05	0.00	143.42	221.11
65	66	80.50	0.00	150.15	148.88
66	66	80.50	0.00	150.15	148.88
66	67	81.50	0.00	170.17	-16.81
67	1067	81.50	0.00	-786.87	-2808.24
67	68	82.50	0.00	-730.81	-2092.02
68	68	82.50	0.00	-730.81	-2092.02
68	69	83.08	0.00	-705.29	-1670.49
69	69	83.08	0.00	-705.29	-1670.49
69	70	84.65	0.00	-632.92	-663.09
70	70	84.65	-1.27	-632.79	-663.09
70	71	86.23	-0.02	-561.77	198.01
71	71	86.23	-0.02	-561.77	198.01
71	72	87.80	-0.02	-492.21	921.52
72	72	87.80	-1.86	-492.21	921.52
72	73	89.38	-1.70	-424.32	1508.53
73	73	89.38	-1.70	-424.32	1508.53
73	74	90.95	-1.49	-358.27	1964.70
74	74	90.95	0.00	-358.32	1964.70
74	75	92.53	0.00	-294.66	2235.62
75	75	92.53	0.00	-294.66	2235.62
75	76	94.10	0.00	-233.40	2441.65
76	76	94.10	0.00	-233.40	2441.65
76	77	95.68	0.00	-174.30	2541.25
77	77	95.68	0.00	-174.30	2541.25

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.VY-

Rotura.Dominante IPF75B. VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	-118.70	1911.99
78	78	97.25	0.00	-118.70	1911.99
78	79	98.83	0.00	-78.58	1852.80
79	79	98.83	0.00	-78.58	1852.80
79	80	100.40	0.00	-38.35	1705.00
80	80	100.40	0.00	-38.35	1705.00
80	81	101.98	0.00	-3.35	1451.03
81	81	101.98	0.00	-3.35	1451.03
81	82	103.55	0.00	29.18	1268.34
82	82	103.55	0.95	29.16	1268.34
82	83	105.13	0.98	59.91	1052.99
83	83	105.13	0.98	59.91	1052.99
83	84	106.70	1.06	89.02	811.52
84	84	106.70	0.02	89.03	811.52
84	85	108.28	0.02	116.45	550.07
85	85	108.28	0.02	116.45	550.07
85	86	109.85	-0.92	142.31	274.00
86	86	109.85	0.00	142.39	274.00
86	87	111.43	0.00	166.81	-12.29
87	87	111.43	0.00	166.81	-12.29
87	88	112.00	0.00	175.39	-118.91
88	88	112.00	0.00	175.39	-118.91
88	89	113.00	0.00	195.39	-309.67
89	1089	113.00	0.00	-790.60	-2801.97
89	90	114.00	0.00	-734.73	-2085.02
90	90	114.00	0.00	-734.73	-2085.02
90	91	114.58	0.00	-709.03	-1659.02
91	91	114.58	0.00	-709.03	-1659.02
91	92	116.15	0.00	-636.71	-645.96
92	92	116.15	-1.22	-636.59	-645.96
92	93	117.73	0.04	-565.64	222.94
93	93	117.73	0.04	-565.64	222.94
93	94	119.30	0.04	-496.28	951.09
94	94	119.30	-1.88	-496.24	951.09
94	95	120.88	-1.73	-428.65	1543.11
95	95	120.88	-1.73	-428.65	1543.11
95	96	122.45	-1.55	-362.94	2004.98
96	96	122.45	0.00	-362.99	2004.98
96	97	124.03	0.00	-300.15	2283.28
97	97	124.03	0.00	-300.15	2283.28
97	98	125.60	0.00	-239.41	2498.33
98	98	125.60	0.00	-239.41	2498.33
98	99	127.18	0.00	-180.89	2609.18
99	99	127.18	0.00	-180.89	2609.18
99	100	128.75	0.00	-124.59	2318.38
100	100	128.75	0.00	-124.59	2318.38
100	101	130.33	0.00	-83.49	1942.05
101	101	130.33	0.00	-83.49	1942.05
101	102	131.90	0.00	-43.77	1681.74
102	102	131.90	0.00	-43.77	1681.74
102	103	133.48	0.00	-9.82	1551.67

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.IPF75B.VY-

Rotura.Dominante IPF75B. VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	-9.82	1551.67
103	104	135.05	0.00	22.37	1383.06
104	104	135.05	1.03	22.35	1383.06
104	105	136.63	1.07	52.79	1182.43
105	105	136.63	1.07	52.79	1182.43
105	106	138.20	1.10	81.59	956.02
106	106	138.20	-0.04	81.59	956.02
106	107	139.78	-0.04	108.79	709.46
107	107	139.78	-0.04	108.79	709.46
107	108	141.35	-1.00	134.61	443.69
108	108	141.35	0.00	134.70	443.69
108	109	142.93	0.00	159.06	170.63
109	109	142.93	0.00	159.06	170.63
109	110	143.50	0.00	167.63	68.70
110	110	143.50	0.00	167.63	68.70
110	111	144.50	0.00	187.63	-114.13
111	1111	144.50	0.00	-679.13	-2674.78
111	112	145.50	0.00	-624.74	-2028.58
112	112	145.50	0.00	-624.74	-2028.58
112	113	145.68	0.00	-617.23	-1922.15
113	113	145.68	0.00	-617.23	-1922.15
113	114	146.85	0.00	-563.22	-1252.49
114	114	146.85	-2.02	-562.96	-1252.49
114	115	148.03	-0.77	-509.53	-662.77
115	115	148.03	-0.77	-509.53	-662.77
115	116	149.20	-0.77	-456.85	-151.94
116	116	149.20	-2.87	-456.93	-151.94
116	117	150.38	-2.67	-405.02	281.30
117	117	150.38	-2.67	-405.02	281.30
117	118	151.55	-2.51	-354.64	640.78
118	118	151.55	0.00	-354.69	640.78
118	119	152.73	0.00	-306.05	914.70
119	119	152.73	0.00	-306.05	914.70
119	120	153.90	0.00	-258.03	1104.68
120	120	153.90	0.00	-258.03	1104.68
120	121	155.08	0.00	-211.65	1286.55
121	121	155.08	0.00	-211.65	1286.55
121	122	156.25	0.00	-166.56	1309.48
122	122	156.25	0.00	-166.56	1309.48
122	123	157.43	0.00	-125.66	1211.57
123	123	157.43	0.00	-125.66	1211.57
123	124	158.60	0.00	-87.47	988.70
124	124	158.60	0.00	-87.47	988.70
124	125	159.78	0.00	-57.51	711.28
125	125	159.78	0.00	-57.51	711.28
125	126	160.95	0.00	-31.50	648.89
126	126	160.95	0.00	-31.50	648.89
126	127	162.13	0.00	-6.86	565.52
127	127	162.13	0.00	-6.86	565.52
127	128	163.30	0.00	16.39	465.94
128	128	163.30	0.00	16.39	465.94

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.IPF75B.VY-

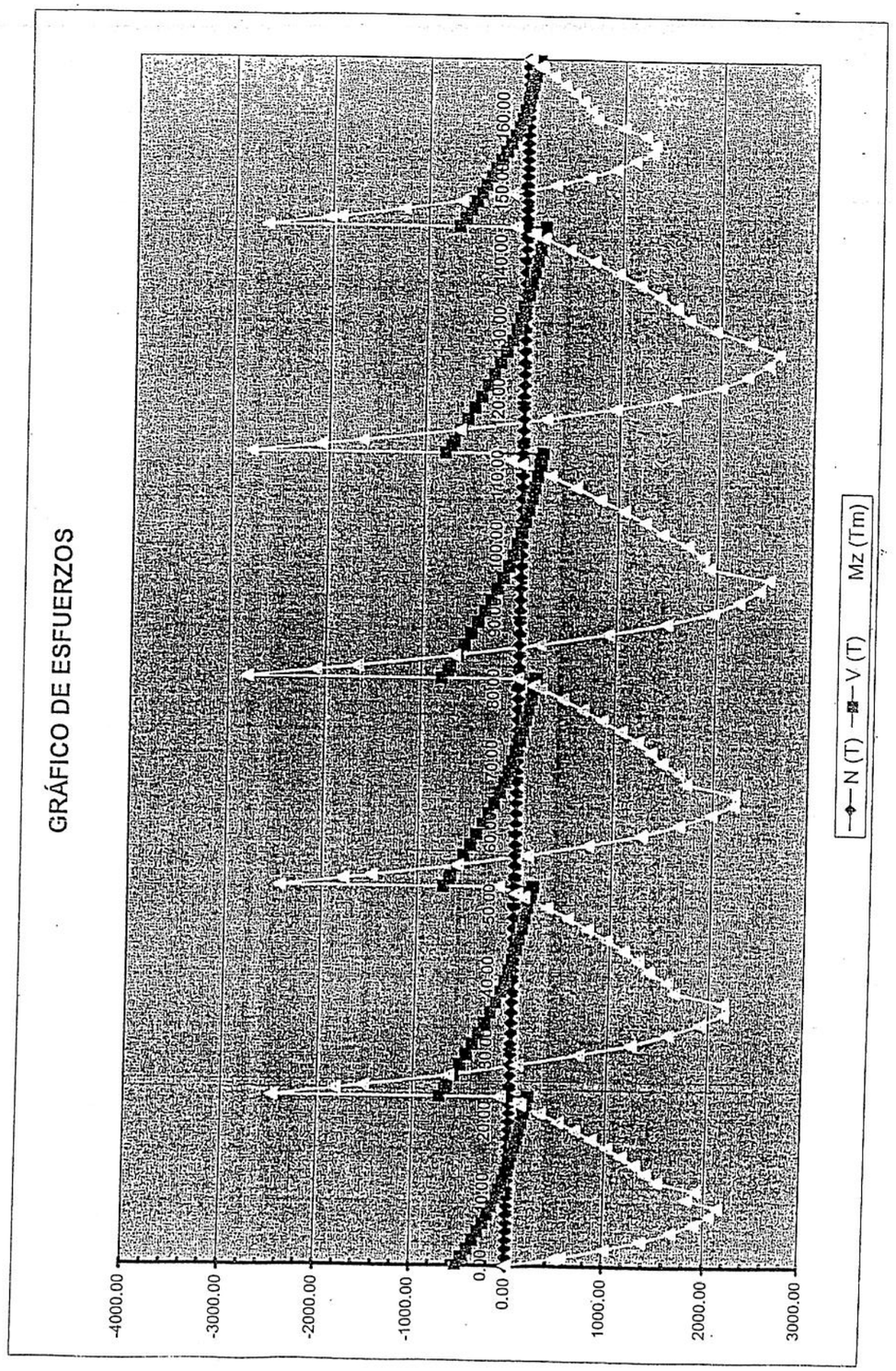
Rotura.Dominante IPF75B. VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1..

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	38.23	354.99
129	129	164.48	0.00	38.23	354.99
129	130	165.65	0.00	58.66	237.58
130	130	165.65	0.00	58.66	237.58
130	131	166.83	0.00	77.66	118.68
131	131	166.83	0.00	77.66	118.68
131	132	167.00	0.00	80.35	101.13
132	132	167.00	0.00	80.35	101.13
132	133	168.00	0.00	101.94	0.00

27/09/01
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CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.GRAD.VY+

Rotura .Dominante GRAD. VY+. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-145.71	0.00
1	2	1.00	0.00	-124.35	141.03
2	2	1.00	0.00	-124.35	141.03
2	3	1.18	0.00	-121.71	164.79
3	3	1.18	0.00	-121.71	164.79
3	4	2.35	0.00	-103.54	320.39
4	4	2.35	0.00	-103.54	320.39
4	5	3.53	0.00	-84.54	467.11
5	5	3.53	0.00	-84.54	467.11
5	6	4.70	0.00	-64.65	601.96
6	6	4.70	0.00	-64.65	601.96
6	7	5.88	0.00	-43.92	721.93
7	7	5.88	0.00	-43.92	721.93
7	8	7.05	0.00	-22.35	824.10
8	8	7.05	0.00	-22.35	824.10
8	9	8.23	0.00	0.04	905.63
9	9	8.23	0.00	0.04	905.63
9	10	9.40	0.00	24.77	1214.81
10	10	9.40	0.00	24.77	1214.81
10	11	10.58	0.00	58.00	1367.46
11	11	10.58	0.00	58.00	1367.46
11	12	11.75	0.00	92.23	1501.00
12	12	11.75	0.00	92.23	1501.00
12	13	12.93	0.00	130.27	1496.62
13	13	12.93	0.00	130.27	1496.62
13	14	14.10	0.00	168.88	1377.53
14	14	14.10	0.00	168.88	1377.53
14	15	15.28	0.00	208.59	1238.32
15	15	15.28	0.00	208.59	1238.32
15	16	16.45	0.00	248.58	1037.61
16	16	16.45	-2.71	248.57	1037.65
16	17	17.63	-3.12	289.60	773.03
17	17	17.63	-3.12	289.60	773.03
17	18	18.80	-3.56	331.51	451.61
18	18	18.80	-0.17	331.52	451.55
18	19	19.98	-0.17	373.88	71.22
19	19	19.98	-0.17	373.88	71.22
19	20	21.15	-0.36	416.66	-368.71
20	20	21.15	0.00	416.72	-368.71
20	21	22.33	0.00	459.90	-869.00
21	21	22.33	0.00	459.90	-869.00
21	22	22.50	0.00	466.00	-948.73
22	22	22.50	0.00	466.00	-948.73
22	23	23.50	0.00	510.70	-1432.93
23	1023	23.50	0.00	-184.37	785.87
23	24	24.50	0.00	-164.45	963.50
24	24	24.50	0.00	-164.45	963.50
24	25	24.95	0.00	-157.85	1039.58
25	25	24.95	0.00	-157.85	1039.58
25	26	26.40	0.00	-136.08	1273.88
26	26	26.40	-0.10	-136.08	1397.89

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.GRAD.VY+

Rotura .Dominante GRAD. VY+. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	0.04	-113.48	1617.46
27	27	27.85	0.04	-113.48	1617.46
27	28	29.30	0.04	-90.11	1814.04
28	28	29.30	-0.57	-90.09	1814.10
28	29	30.75	-0.39	-65.84	1988.26
29	29	30.75	-0.39	-65.84	1988.26
29	30	32.20	-0.20	-40.68	2137.10
30	30	32.20	0.00	-40.68	2137.03
30	31	33.65	0.00	-14.54	2257.42
31	31	33.65	0.00	-14.54	2257.42
31	32	35.10	0.00	12.79	2414.32
32	32	35.10	0.00	12.79	2414.32
32	33	36.55	0.00	42.17	2482.24
33	33	36.55	0.00	42.17	2482.24
33	34	38.00	0.00	72.97	2763.78
34	34	38.00	0.00	72.97	2763.78
34	35	39.45	0.00	116.83	3005.43
35	35	39.45	0.00	116.83	3005.43
35	36	40.90	0.00	162.61	2969.05
36	36	40.90	0.00	162.61	2969.05
36	37	42.35	0.00	209.98	2779.75
37	37	42.35	0.00	209.98	2779.75
37	38	43.80	0.00	258.59	2520.67
38	38	43.80	-1.88	258.58	2520.75
38	39	45.25	-2.19	308.41	2206.41
39	39	45.25	-2.19	308.41	2206.41
39	40	46.70	-2.52	358.72	1775.07
40	40	46.70	-0.04	358.71	1775.01
40	41	48.15	-0.04	410.14	1266.90
41	41	48.15	-0.04	410.14	1266.90
41	42	49.60	-0.52	462.69	696.63
42	42	49.60	0.00	462.75	696.63
42	43	51.05	0.00	515.59	-3.89
43	43	51.05	0.00	515.59	-3.89
43	44	51.50	0.00	531.29	-235.74
44	44	51.50	0.00	531.29	-235.74
44	45	52.50	0.00	577.68	-760.24
45	1045	52.50	0.00	-183.38	85.50
45	46	53.50	0.00	-163.46	262.13
46	46	53.50	0.00	-163.46	262.13
46	47	53.95	0.00	-156.85	337.84
47	47	53.95	0.00	-156.85	337.84
47	48	55.40	0.00	-135.07	571.05
48	48	55.40	0.13	-135.07	571.05
48	49	56.85	0.00	-112.51	788.43
49	49	56.85	0.00	-112.51	788.43
49	50	58.30	0.00	-89.11	984.63
50	50	58.30	-1.13	-89.10	984.68
50	51	59.75	-0.85	-64.85	1158.68
51	51	59.75	-0.85	-64.85	1158.68
51	52	61.20	-0.56	-39.64	1307.52

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.VY+

Rotura .Dominante GRAD. VY+. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-39.64	1307.47
52	53	62.65	0.00	-13.49	1427.90
53	53	62.65	0.00	-13.49	1427.90
53	54	64.10	0.00	13.65	1516.60
54	54	64.10	0.00	13.65	1516.60
54	55	65.55	0.00	41.74	1569.89
55	55	65.55	0.00	41.74	1569.89
55	56	67.00	0.00	74.20	1935.94
56	56	67.00	0.00	74.20	1935.94
56	57	68.45	0.00	118.13	2166.29
57	57	68.45	0.00	118.13	2166.29
57	58	69.90	0.00	164.10	2133.09
58	58	69.90	0.00	164.10	2133.09
58	59	71.35	0.00	211.50	1942.62
59	59	71.35	0.00	211.50	1942.62
59	60	72.80	0.00	260.11	1682.47
60	60	72.80	-2.26	260.10	1682.52
60	61	74.25	-2.67	309.87	1368.31
61	61	74.25	-2.67	309.87	1368.31
61	62	75.70	-3.07	360.16	935.31
62	62	75.70	0.00	360.18	935.26
62	63	77.15	0.00	411.62	425.55
63	63	77.15	0.00	411.62	425.55
63	64	78.60	-0.19	464.08	-145.10
64	64	78.60	0.00	464.11	-145.10
64	65	80.05	0.00	517.02	-848.13
65	65	80.05	0.00	517.02	-848.13
65	66	80.50	0.00	532.72	-1080.59
66	66	80.50	0.00	532.72	-1080.59
66	67	81.50	0.00	579.08	-1605.55
67	1067	81.50	0.00	-203.76	409.93
67	68	82.50	0.00	-183.84	606.93
68	68	82.50	0.00	-183.84	606.93
68	69	83.08	0.00	-175.39	715.05
69	69	83.08	0.00	-175.39	715.05
69	70	84.65	0.00	-151.75	997.99
70	70	84.65	0.13	-151.77	997.99
70	71	86.23	0.00	-127.23	1263.13
71	71	86.23	0.00	-127.23	1263.13
71	72	87.80	0.00	-101.81	1502.37
72	72	87.80	-1.18	-101.80	1502.41
72	73	89.38	-0.91	-75.43	1715.44
73	73	89.38	-0.91	-75.43	1715.44
73	74	90.95	-0.59	-48.05	1898.79
74	74	90.95	0.00	-48.06	1898.73
74	75	92.53	0.00	-19.66	2048.53
75	75	92.53	0.00	-19.66	2048.53
75	76	94.10	0.00	10.00	2236.98
76	76	94.10	0.00	10.00	2236.98
76	77	95.68	0.00	42.69	2334.74
77	77	95.68	0.00	42.69	2334.74

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.VY+

Rotura .Dominante GRAD. VY+. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	76.95	2694.87
78	78	97.25	0.00	76.95	2694.87
78	79	98.83	0.00	125.32	2978.37
79	79	98.83	0.00	125.32	2978.37
79	80	100.40	0.00	175.02	2875.05
80	80	100.40	0.00	175.02	2875.05
80	81	101.98	0.00	225.99	2685.96
81	81	101.98	0.00	225.99	2685.96
81	82	103.55	0.00	278.32	2436.06
82	82	103.55	-2.18	278.30	2436.12
82	83	105.13	-2.62	332.21	2052.53
83	83	105.13	-2.62	332.21	2052.53
83	84	106.70	-3.03	387.26	1567.87
84	84	106.70	0.00	387.26	1567.83
84	85	108.28	0.00	443.35	978.59
85	85	108.28	0.00	443.35	978.59
85	86	109.85	-0.19	500.36	282.19
86	86	109.85	0.00	500.40	282.19
86	87	111.43	0.00	558.23	-523.37
87	87	111.43	0.00	558.23	-523.37
87	88	112.00	0.00	578.88	-856.78
88	88	112.00	0.00	578.88	-856.78
88	89	113.00	0.00	624.55	-1431.20
89	1089	113.00	0.00	-212.28	669.78
89	90	114.00	0.00	-192.36	875.38
90	90	114.00	0.00	-192.36	875.38
90	91	114.58	0.00	-183.90	988.46
91	91	114.58	0.00	-183.90	988.46
91	92	116.15	0.00	-160.20	1285.17
92	92	116.15	-0.12	-160.20	1285.17
92	93	117.73	0.02	-135.63	1561.48
93	93	117.73	0.02	-135.63	1561.48
93	94	119.30	0.02	-110.11	1814.73
94	94	119.30	-0.70	-110.10	1814.79
94	95	120.88	-0.51	-83.56	2041.71
95	95	120.88	-0.51	-83.56	2041.71
95	96	122.45	-0.32	-56.02	2238.58
96	96	122.45	0.00	-56.03	2238.50
96	97	124.03	0.00	-27.40	2401.32
97	97	124.03	0.00	-27.40	2401.32
97	98	125.60	0.00	3.38	2587.24
98	98	125.60	0.00	3.38	2587.24
98	99	127.18	0.00	36.66	2698.90
99	99	127.18	0.00	36.66	2698.90
99	100	128.75	0.00	69.86	2742.87
100	100	128.75	0.00	69.86	2742.87
100	101	130.33	0.00	117.04	3366.27
101	101	130.33	0.00	117.04	3366.27
101	102	131.90	0.00	167.06	3274.12
102	102	131.90	0.00	167.06	3274.12
102	103	133.48	0.00	218.35	3095.14

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.VY+

Rotura .Dominante GRAD. VY+. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	218.35	3095.14
103	104	135.05	0.00	271.09	2853.69
104	104	135.05	-1.77	271.08	2853.78
104	105	136.63	-2.09	325.23	2478.96
105	105	136.63	-2.09	325.23	2478.96
105	106	138.20	-2.46	380.43	2002.96
106	106	138.20	-0.02	380.43	2002.91
106	107	139.78	-0.02	436.66	1422.46
107	107	139.78	-0.02	436.66	1422.46
107	108	141.35	-0.47	493.66	739.31
108	108	141.35	0.00	493.72	739.31
108	109	142.93	0.00	551.58	-56.12
109	109	142.93	0.00	551.58	-56.12
109	110	143.50	0.00	572.14	-365.74
110	110	143.50	0.00	572.14	-365.74
110	111	144.50	0.00	617.92	-954.12
111	1111	144.50	0.00	-132.89	967.14
111	112	145.50	0.00	-112.96	1093.42
112	112	145.50	0.00	-112.96	1093.42
112	113	145.68	0.00	-110.38	1114.23
113	113	145.68	0.00	-110.38	1114.23
113	114	146.85	0.00	-92.88	1248.08
114	114	146.85	0.02	-92.89	1248.08
114	115	148.03	0.16	-74.83	1371.14
115	115	148.03	0.16	-74.83	1371.14
115	116	149.20	0.16	-56.21	1482.34
116	116	149.20	-0.40	-56.17	1482.41
116	117	150.38	-0.22	-36.92	1580.43
117	117	150.38	-0.22	-36.92	1580.43
117	118	151.55	-0.04	-17.05	1663.65
118	118	151.55	0.00	-17.07	1663.59
118	119	152.73	0.00	3.49	1730.18
119	119	152.73	0.00	3.49	1730.18
119	120	153.90	0.00	24.74	1778.11
120	120	153.90	0.00	24.74	1778.11
120	121	155.08	0.00	47.60	1816.80
121	121	155.08	0.00	47.60	1816.80
121	122	156.25	0.00	70.30	1819.77
122	122	156.25	0.00	70.30	1819.77
122	123	157.43	0.00	99.05	2072.94
123	123	157.43	0.00	99.05	2072.94
123	124	158.60	0.00	128.62	1960.23
124	124	158.60	0.00	128.62	1960.23
124	125	159.78	0.00	163.42	2160.95
125	125	159.78	0.00	163.42	2160.95
125	126	160.95	0.00	201.78	2023.12
126	126	160.95	0.00	201.78	2023.12
126	127	162.13	0.00	241.07	1832.36
127	127	162.13	0.00	241.07	1832.36
127	128	163.30	0.00	281.30	1585.32
128	128	163.30	0.00	281.30	1585.32

CÁLCULO TENSIONAL

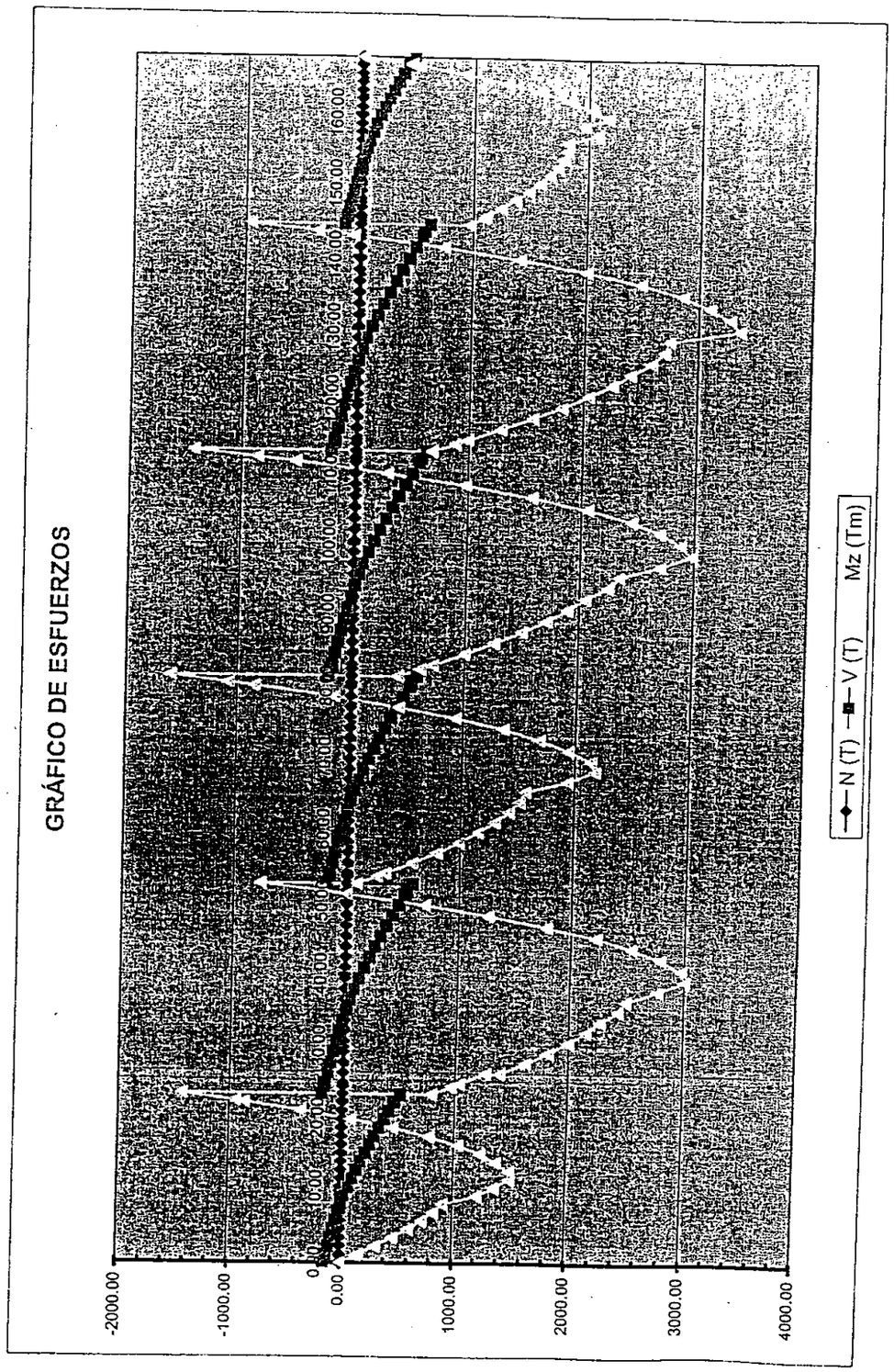
Hipótesis de cálculo:
Rotura.Tinf.GRAD.VY+

Rotura .Dominante GRAD. VY+. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	322.22	1282.70
129	129	164.48	0.00	322.22	1282.70
129	130	165.65	0.00	363.79	922.67
130	130	165.65	0.00	363.79	922.67
130	131	166.83	0.00	406.25	497.70
131	131	166.83	0.00	406.25	497.70
131	132	167.00	0.00	412.76	428.68
132	132	167.00	0.00	412.76	428.68
132	133	168.00	0.00	458.70	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.VY-

Rotura .Dominante GRAD. VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-456.61	0.00
1	2	1.00	0.00	-410.67	426.66
2	2	1.00	0.00	-410.67	426.66
2	3	1.18	0.00	-404.16	495.24
3	3	1.18	0.00	-404.16	495.24
3	4	2.35	0.00	-361.69	917.76
4	4	2.35	0.00	-361.69	917.76
4	5	3.53	0.00	-320.17	1275.43
5	5	3.53	0.00	-320.17	1275.43
5	6	4.70	0.00	-279.28	1575.79
6	6	4.70	0.00	-279.28	1575.79
6	7	5.88	0.00	-239.05	1820.65
7	7	5.88	0.00	-239.05	1820.65
7	8	7.05	0.00	-199.84	2009.44
8	8	7.05	0.00	-199.84	2009.44
8	9	8.23	0.00	-161.54	2145.44
9	9	8.23	0.00	-161.54	2145.44
9	10	9.40	0.00	-125.93	1934.92
10	10	9.40	0.00	-125.93	1934.92
10	11	10.58	0.00	-96.18	2042.45
11	11	10.58	0.00	-96.18	2042.45
11	12	11.75	0.00	-68.32	1796.23
12	12	11.75	0.00	-68.32	1796.23
12	13	12.93	0.00	-44.18	1772.64
13	13	12.93	0.00	-44.18	1772.64
13	14	14.10	0.00	-22.28	1743.43
14	14	14.10	0.00	-22.28	1743.43
14	15	15.28	0.00	-0.88	1690.29
15	15	15.28	0.00	-0.88	1690.29
15	16	16.45	0.00	19.63	1621.52
16	16	16.45	-0.06	19.63	1621.58
16	17	17.63	-0.25	39.46	1536.10
17	17	17.63	-0.25	39.46	1536.10
17	18	18.80	-0.44	58.65	1435.76
18	18	18.80	0.18	58.67	1435.69
18	19	19.98	0.18	77.27	1322.00
19	19	19.98	0.18	77.27	1322.00
19	20	21.15	0.04	95.31	1196.36
20	20	21.15	0.00	95.32	1196.36
20	21	22.33	0.00	112.83	1059.76
21	21	22.33	0.00	112.83	1059.76
21	22	22.50	0.00	115.40	1038.50
22	22	22.50	0.00	115.40	1038.50
22	23	23.50	0.00	135.32	909.84
23	1023	23.50	0.00	-572.87	-1285.29
23	24	24.50	0.00	-526.40	-764.24
24	24	24.50	0.00	-526.40	-764.24
24	25	24.95	0.00	-510.70	-534.49
25	25	24.95	0.00	-510.70	-534.49
25	26	26.40	0.00	-457.88	158.23
26	26	26.40	-0.21	-457.84	34.22

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.GRAD.VY-

Rotura .Dominante GRAD. VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.04	-405.18	596.91
27	27	27.85	-0.04	-405.18	596.91
27	28	29.30	-0.04	-353.70	1098.29
28	28	29.30	-3.01	-353.68	1098.33
28	29	30.75	-2.57	-303.33	1522.76
29	29	30.75	-2.57	-303.33	1522.76
29	30	32.20	-2.18	-253.26	1832.03
30	30	32.20	0.00	-253.26	1831.98
30	31	33.65	0.00	-204.53	2083.89
31	31	33.65	0.00	-204.53	2083.89
31	32	35.10	0.00	-157.04	2265.47
32	32	35.10	0.00	-157.04	2265.47
32	33	36.55	0.00	-110.57	2292.45
33	33	36.55	0.00	-110.57	2292.45
33	34	38.00	0.00	-66.46	1800.82
34	34	38.00	0.00	-66.46	1800.82
34	35	39.45	0.00	-34.72	1741.66
35	35	39.45	0.00	-34.72	1741.66
35	36	40.90	0.00	-4.99	1611.37
36	36	40.90	0.00	-4.99	1611.37
36	37	42.35	0.00	22.31	1510.85
37	37	42.35	0.00	22.31	1510.85
37	38	43.80	0.00	48.59	1377.99
38	38	43.80	-0.65	48.59	1378.05
38	39	45.25	-0.93	73.92	1216.40
39	39	45.25	-0.93	73.92	1216.40
39	40	46.70	-1.21	98.30	1029.20
40	40	46.70	0.04	98.30	1029.15
40	41	48.15	0.04	121.79	819.47
41	41	48.15	0.04	121.79	819.47
41	42	49.60	0.17	144.39	590.14
42	42	49.60	0.00	144.38	590.14
42	43	51.05	0.00	166.17	343.30
43	43	51.05	0.00	166.17	343.30
43	44	51.50	0.00	172.80	263.36
44	44	51.50	0.00	172.80	263.36
44	45	52.50	0.00	192.73	77.35
45	1045	52.50	0.00	-580.27	-762.57
45	46	53.50	0.00	-533.83	-235.19
46	46	53.50	0.00	-533.83	-235.19
46	47	53.95	0.00	-518.11	-2.14
47	47	53.95	0.00	-518.11	-2.14
47	48	55.40	0.00	-465.26	701.86
48	48	55.40	-0.47	-465.20	701.86
48	49	56.85	0.00	-412.59	1274.67
49	49	56.85	0.00	-412.59	1274.67
49	50	58.30	0.00	-361.09	1786.21
50	50	58.30	-2.55	-361.08	1786.28
50	51	59.75	-2.22	-310.72	2220.84
51	51	59.75	-2.22	-310.72	2220.84
51	52	61.20	-1.89	-260.72	2538.29

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.GRAD.VY-

Rotura .Dominante GRAD. VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-260.73	2538.22
52	53	62.65	0.00	-211.98	2799.77
53	53	62.65	0.00	-211.98	2799.77
53	54	64.10	0.00	-164.48	2991.13
54	54	64.10	0.00	-164.48	2991.13
54	55	65.55	0.00	-117.89	3024.12
55	55	65.55	0.00	-117.89	3024.12
55	56	67.00	0.00	-74.79	2545.08
56	56	67.00	0.00	-74.79	2545.08
56	57	68.45	0.00	-42.74	2503.56
57	57	68.45	0.00	-42.74	2503.56
57	58	69.90	0.00	-14.22	2383.80
58	58	69.90	0.00	-14.22	2383.80
58	59	71.35	0.00	13.10	2295.05
59	59	71.35	0.00	13.10	2295.05
59	60	72.80	0.00	39.41	2174.08
60	60	72.80	-0.20	39.40	2174.14
60	61	74.25	-0.40	64.74	2024.45
61	61	74.25	-0.40	64.74	2024.45
61	62	75.70	-0.57	89.14	1849.41
62	62	75.70	0.00	89.14	1849.36
62	63	77.15	0.00	112.62	1652.08
63	63	77.15	0.00	112.62	1652.08
63	64	78.60	-0.14	135.23	1435.38
64	64	78.60	0.00	135.25	1435.38
64	65	80.05	0.00	157.08	1201.47
65	65	80.05	0.00	157.08	1201.47
65	66	80.50	0.00	163.70	1125.59
66	66	80.50	0.00	163.70	1125.59
66	67	81.50	0.00	183.62	948.62
67	1067	81.50	0.00	-621.80	-1083.89
67	68	82.50	0.00	-576.06	-510.52
68	68	82.50	0.00	-576.06	-510.52
68	69	83.08	0.00	-555.48	-180.02
69	69	83.08	0.00	-555.48	-180.02
69	70	84.65	0.00	-497.62	621.47
70	70	84.65	-0.47	-497.58	621.47
70	71	86.23	-0.01	-440.56	1311.35
71	71	86.23	-0.01	-440.56	1311.35
71	72	87.80	-0.01	-384.39	1897.11
72	72	87.80	-2.47	-384.38	1897.16
72	73	89.38	-2.16	-329.22	2378.28
73	73	89.38	-2.16	-329.22	2378.28
73	74	90.95	-1.80	-275.16	2758.20
74	74	90.95	0.00	-275.19	2758.12
74	75	92.53	0.00	-222.57	3004.12
75	75	92.53	0.00	-222.57	3004.12
75	76	94.10	0.00	-171.38	3188.47
76	76	94.10	0.00	-171.38	3188.47
76	77	95.68	0.00	-121.49	3286.25
77	77	95.68	0.00	-121.49	3286.25

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.VY-

Rotura .Dominante GRAD. VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	-74.23	2671.50
78	78	97.25	0.00	-74.23	2671.50
78	79	98.83	0.00	-41.12	2633.62
79	79	98.83	0.00	-41.12	2633.62
79	80	100.40	0.00	-7.94	2528.32
80	80	100.40	0.00	-7.94	2528.32
80	81	101.98	0.00	22.10	2345.13
81	81	101.98	0.00	22.10	2345.13
81	82	103.55	0.00	50.64	2190.45
82	82	103.55	-0.27	50.64	2190.53
82	83	105.13	-0.47	78.12	2002.04
83	83	105.13	-0.47	78.12	2002.04
83	84	106.70	-0.64	104.63	1783.62
84	84	106.70	0.01	104.62	1783.57
84	85	108.28	0.01	130.11	1538.93
85	85	108.28	0.01	130.11	1538.93
85	86	109.85	-0.13	154.66	1271.33
86	86	109.85	0.00	154.68	1271.33
86	87	111.43	0.00	178.36	983.40
87	87	111.43	0.00	178.36	983.40
87	88	112.00	0.00	186.82	873.46
88	88	112.00	0.00	186.82	873.46
88	89	113.00	0.00	206.74	673.47
89	1089	113.00	0.00	-623.95	-1430.23
89	90	114.00	0.00	-578.32	-856.46
90	90	114.00	0.00	-578.32	-856.46
90	91	114.58	0.00	-557.63	-523.36
91	91	114.58	0.00	-557.63	-523.36
91	92	116.15	0.00	-499.81	281.37
92	92	116.15	-0.23	-499.80	281.37
92	93	117.73	-0.04	-442.80	976.91
93	93	117.73	-0.04	-442.80	976.91
93	94	119.30	-0.04	-386.75	1565.31
94	94	119.30	-3.03	-386.73	1565.37
94	95	120.88	-2.61	-331.73	2049.37
95	95	120.88	-2.61	-331.73	2049.37
95	96	122.45	-2.20	-277.89	2432.54
96	96	122.45	0.00	-277.91	2432.48
96	97	124.03	0.00	-225.78	2682.79
97	97	124.03	0.00	-225.78	2682.79
97	98	125.60	0.00	-174.91	2872.43
98	98	125.60	0.00	-174.91	2872.43
98	99	127.18	0.00	-125.36	2976.79
99	99	127.18	0.00	-125.36	2976.79
99	100	128.75	0.00	-77.16	2694.94
100	100	128.75	0.00	-77.16	2694.94
100	101	130.33	0.00	-42.86	2333.81
101	101	130.33	0.00	-42.86	2333.81
101	102	131.90	0.00	-9.97	2159.10
102	102	131.90	0.00	-9.97	2159.10
102	103	133.48	0.00	19.43	2048.30

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.GRAD.VY-

Rotura .Dominante GRAD. VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	19.43	2048.30
103	104	135.05	0.00	47.77	1900.13
104	104	135.05	-0.60	47.78	1900.20
104	105	136.63	-0.88	75.09	1718.59
105	105	136.63	-0.88	75.09	1718.59
105	106	138.20	-1.18	101.39	1507.27
106	106	138.20	0.04	101.39	1507.22
106	107	139.78	0.04	126.75	1269.58
107	107	139.78	0.04	126.75	1269.58
107	108	141.35	0.16	151.30	1004.67
108	108	141.35	0.00	151.31	1004.67
108	109	142.93	0.00	174.95	722.73
109	109	142.93	0.00	174.95	722.73
109	110	143.50	0.00	183.39	614.89
110	110	143.50	0.00	183.39	614.89
110	111	144.50	0.00	203.30	418.45
111	1111	144.50	0.00	-514.01	-1510.63
111	112	145.50	0.00	-469.27	-1022.41
112	112	145.50	0.00	-469.27	-1022.41
112	113	145.68	0.00	-463.17	-942.16
113	113	145.68	0.00	-463.17	-942.16
113	114	146.85	0.00	-419.99	-437.62
114	114	146.85	-0.36	-419.95	-437.62
114	115	148.03	-0.17	-377.13	6.36
115	115	148.03	-0.17	-377.13	6.36
115	116	149.20	-0.17	-334.77	390.40
116	116	149.20	-3.59	-334.76	390.46
116	117	150.38	-3.14	-292.85	715.30
117	117	150.38	-3.14	-292.85	715.30
117	118	151.55	-2.75	-251.84	983.22
118	118	151.55	0.00	-251.89	983.18
118	119	152.73	0.00	-211.94	1187.11
119	119	152.73	0.00	-211.94	1187.11
119	120	153.90	0.00	-172.36	1328.05
120	120	153.90	0.00	-172.36	1328.05
120	121	155.08	0.00	-133.77	1451.45
121	121	155.08	0.00	-133.77	1451.45
121	122	156.25	0.00	-95.94	1457.48
122	122	156.25	0.00	-95.94	1457.48
122	123	157.43	0.00	-61.74	1327.98
123	123	157.43	0.00	-61.74	1327.98
123	124	158.60	0.00	-29.24	1172.62
124	124	158.60	0.00	-29.24	1172.62
124	125	159.78	0.00	-3.47	877.40
125	125	159.78	0.00	-3.47	877.40
125	126	160.95	0.00	18.87	799.54
126	126	160.95	0.00	18.87	799.54
126	127	162.13	0.00	40.40	701.17
127	127	162.13	0.00	40.40	701.17
127	128	163.30	0.00	61.08	585.17
128	128	163.30	0.00	61.08	585.17

CÁLCULO TENSIONAL

Hipótesis de cálculo:

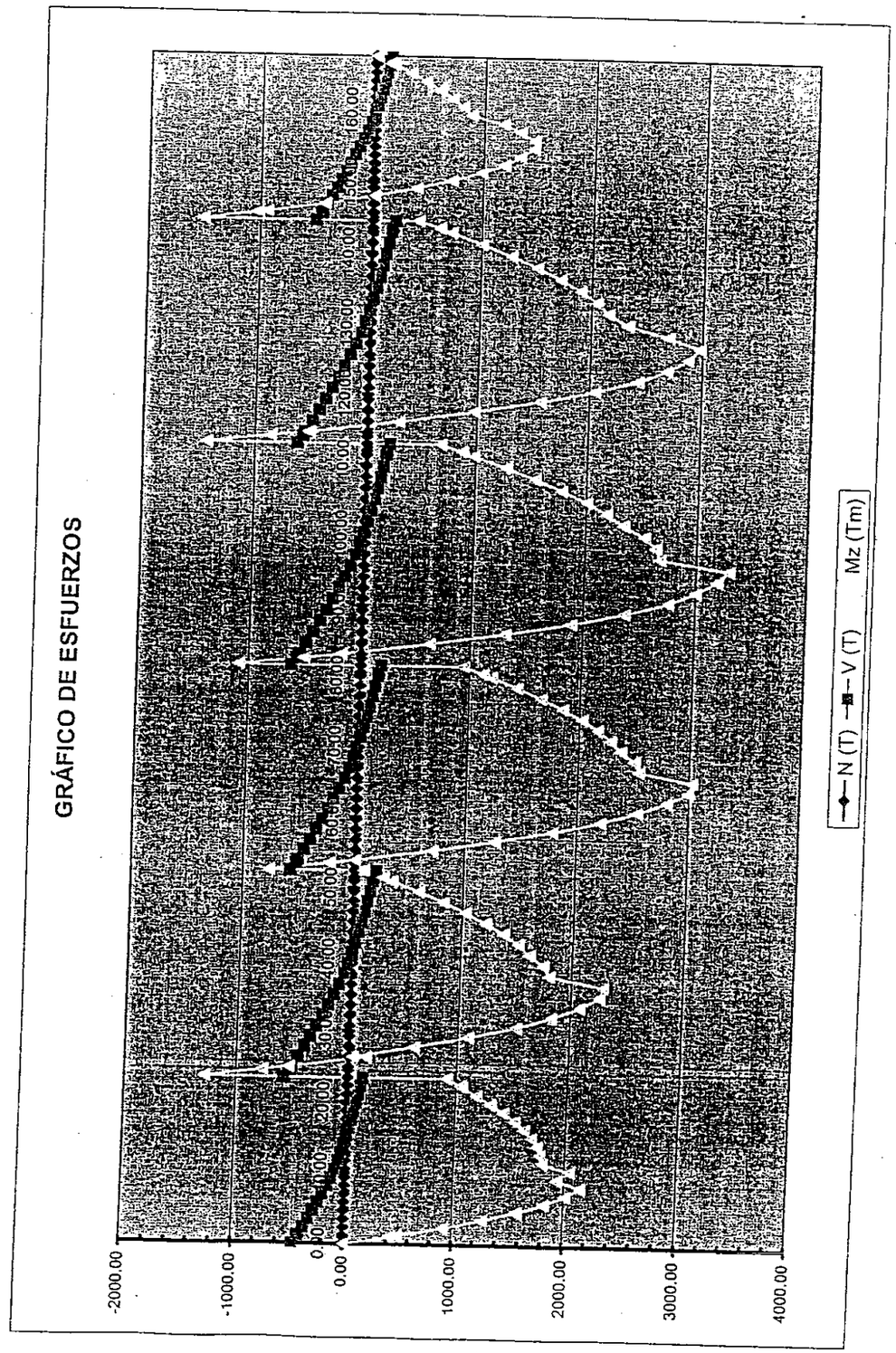
Rotura.Tinf.GRAD.VY-

Rotura .Dominante GRAD. VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	80.94	454.41
129	129	164.48	0.00	80.94	454.41
129	130	165.65	0.00	99.93	311.88
130	130	165.65	0.00	99.93	311.88
130	131	166.83	0.00	118.07	160.49
131	131	166.83	0.00	118.07	160.49
131	132	167.00	0.00	120.70	137.37
132	132	167.00	0.00	120.70	137.37
132	133	168.00	0.00	142.08	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.IPF75B.VY+

Rotura VY+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1..

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-128.66	0.00
1	2	1.00	0.00	-107.09	127.89
2	2	1.00	0.00	-107.09	127.89
2	3	1.18	0.00	-104.37	150.09
3	3	1.18	0.00	-104.37	150.09
3	4	2.35	0.00	-85.33	300.32
4	4	2.35	0.00	-85.33	300.32
4	5	3.53	0.00	-64.89	448.94
5	5	3.53	0.00	-64.89	448.94
5	6	4.70	0.00	-42.98	590.98
6	6	4.70	0.00	-42.98	590.98
6	7	5.88	0.00	-19.68	721.44
7	7	5.88	0.00	-19.68	721.44
7	8	7.05	0.00	5.04	835.42
8	8	7.05	0.00	5.04	835.42
8	9	8.23	0.00	31.12	928.20
9	9	8.23	0.00	31.12	928.20
9	10	9.40	0.00	60.08	1246.16
10	10	9.40	0.00	60.08	1246.16
10	11	10.58	0.00	99.53	1487.86
11	11	10.58	0.00	99.53	1487.86
11	12	11.75	0.00	140.46	1615.92
12	12	11.75	0.00	140.46	1615.92
12	13	12.93	0.00	185.91	1619.07
13	13	12.93	0.00	185.91	1619.07
13	14	14.10	0.00	232.31	1467.81
14	14	14.10	0.00	232.31	1467.81
14	15	15.28	0.00	280.56	1304.08
15	15	15.28	0.00	280.56	1304.08
15	16	16.45	0.00	329.26	1058.94
16	16	16.45	-3.66	329.25	1058.99
16	17	17.63	-4.18	379.68	728.41
17	17	17.63	-4.18	379.68	728.41
17	18	18.80	-4.74	431.60	324.25
18	18	18.80	-0.17	431.61	324.20
18	19	19.98	-0.17	484.27	-157.06
19	19	19.98	-0.17	484.27	-157.06
19	20	21.15	-0.36	537.65	-716.56
20	20	21.15	0.00	537.70	-716.56
20	21	22.33	0.00	591.71	-1355.55
21	21	22.33	0.00	591.71	-1355.55
21	22	22.50	0.00	599.23	-1457.60
22	22	22.50	0.00	599.23	-1457.60
22	23	23.50	0.00	653.56	-2077.08
23	1023	23.50	0.00	-169.13	744.41
23	24	24.50	0.00	-149.13	908.88
24	24	24.50	0.00	-149.13	908.88
24	25	24.95	0.00	-142.43	980.42
25	25	24.95	0.00	-142.43	980.42
25	26	26.40	0.00	-120.00	1206.04
26	26	26.40	-0.10	-120.00	1330.04

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Rotura.Tinf.IPF75B.VY+
27/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.IPF75B.VY+

Rotura VY+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1..

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	0.04	-96.23	1549.17
27	27	27.85	0.04	-96.23	1549.17
27	28	29.30	0.04	-71.16	1752.18
28	28	29.30	-0.38	-71.14	1752.24
28	29	30.75	-0.18	-44.58	1937.98
29	29	30.75	-0.18	-44.58	1937.98
29	30	32.20	0.04	-16.52	2101.65
30	30	32.20	0.00	-16.52	2101.58
30	31	33.65	0.00	13.19	2237.92
31	31	33.65	0.00	13.19	2237.92
31	32	35.10	0.00	44.87	2455.23
32	32	35.10	0.00	44.87	2455.23
32	33	36.55	0.00	79.97	2544.32
33	33	36.55	0.00	79.97	2544.32
33	34	38.00	0.00	117.41	2841.44
34	34	38.00	0.00	117.41	2841.44
34	35	39.45	0.00	168.38	3085.39
35	35	39.45	0.00	168.38	3085.39
35	36	40.90	0.00	222.53	3079.01
36	36	40.90	0.00	222.53	3079.01
36	37	42.35	0.00	279.34	2849.87
37	37	42.35	0.00	279.34	2849.87
37	38	43.80	0.00	338.21	2536.54
38	38	43.80	-2.65	338.19	2536.62
38	39	45.25	-3.05	399.10	2163.29
39	39	45.25	-3.05	399.10	2163.29
39	40	46.70	-3.50	460.80	1627.07
40	40	46.70	-0.04	460.79	1627.00
40	41	48.15	-0.04	524.37	994.97
41	41	48.15	-0.04	524.37	994.97
41	42	49.60	-0.52	589.79	291.41
42	42	49.60	0.00	589.86	291.41
42	43	51.05	0.00	655.78	-597.06
43	43	51.05	0.00	655.78	-597.06
43	44	51.50	0.00	675.08	-890.35
44	44	51.50	0.00	675.08	-890.35
44	45	52.50	0.00	732.23	-1544.02
45	1045	52.50	0.00	-162.80	231.35
45	46	53.50	0.00	-142.79	389.50
46	46	53.50	0.00	-142.79	389.50
46	47	53.95	0.00	-136.08	458.30
47	47	53.95	0.00	-136.08	458.30
47	48	55.40	0.00	-113.63	675.27
48	48	55.40	0.13	-113.64	675.27
48	49	56.85	0.00	-89.90	884.92
49	49	56.85	0.00	-89.90	884.92
49	50	58.30	0.00	-64.77	1080.43
50	50	58.30	-0.90	-64.76	1080.48
50	51	59.75	-0.59	-38.20	1259.11
51	51	59.75	-0.59	-38.20	1259.11
51	52	61.20	-0.28	-10.07	1415.91

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.VY+

Rotura VY+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-10.06	1415.86
52	53	62.65	0.00	19.65	1545.43
53	53	62.65	0.00	19.65	1545.43
53	54	64.10	0.00	51.02	1642.20
54	54	64.10	0.00	51.02	1642.20
54	55	65.55	0.00	83.99	1700.07
55	55	65.55	0.00	83.99	1700.07
55	56	67.00	0.00	123.50	2133.91
56	56	67.00	0.00	123.50	2133.91
56	57	68.45	0.00	174.56	2360.99
57	57	68.45	0.00	174.56	2360.99
57	58	69.90	0.00	229.04	2354.06
58	58	69.90	0.00	229.04	2354.06
58	59	71.35	0.00	285.91	2117.13
59	59	71.35	0.00	285.91	2117.13
59	60	72.80	0.00	344.78	1796.17
60	60	72.80	-3.07	344.77	1796.22
60	61	74.25	-3.59	405.56	1417.26
61	61	74.25	-3.59	405.56	1417.26
61	62	75.70	-4.10	467.25	872.43
62	62	75.70	0.00	467.27	872.39
62	63	77.15	0.00	530.85	231.82
63	63	77.15	0.00	530.85	231.82
63	64	78.60	-0.19	596.15	-478.20
64	64	78.60	0.00	596.18	-478.20
64	65	80.05	0.00	662.22	-1376.73
65	65	80.05	0.00	662.22	-1376.73
65	66	80.50	0.00	681.51	-1672.85
66	66	80.50	0.00	681.51	-1672.85
66	67	81.50	0.00	738.62	-2331.35
67	1067	81.50	0.00	-186.10	454.59
67	68	82.50	0.00	-166.09	636.01
68	68	82.50	0.00	-166.09	636.01
68	69	83.08	0.00	-157.51	737.14
69	69	83.08	0.00	-157.51	737.14
69	70	84.65	0.00	-133.17	1008.23
70	70	84.65	0.13	-133.20	1008.23
70	71	86.23	0.00	-107.38	1271.54
71	71	86.23	0.00	-107.38	1271.54
71	72	87.80	0.00	-80.08	1517.28
72	72	87.80	-0.98	-80.07	1517.33
72	73	89.38	-0.69	-51.18	1743.10
73	73	89.38	-0.69	-51.18	1743.10
73	74	90.95	-0.34	-20.61	1943.13
74	74	90.95	0.00	-20.62	1943.06
74	75	92.53	0.00	11.66	2110.93
75	75	92.53	0.00	11.66	2110.93
75	76	94.10	0.00	46.03	2366.91
76	76	94.10	0.00	46.03	2366.91
76	77	95.68	0.00	85.45	2495.47
77	77	95.68	0.00	85.45	2495.47

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.VY+

Rotura VY+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	126.58	2868.40
78	78	97.25	0.00	126.58	2868.40
78	79	98.83	0.00	183.15	3158.27
79	79	98.83	0.00	183.15	3158.27
79	80	100.40	0.00	241.92	3045.55
80	80	100.40	0.00	241.92	3045.55
80	81	101.98	0.00	302.83	2827.71
81	81	101.98	0.00	302.83	2827.71
81	82	103.55	0.00	365.99	2546.43
82	82	103.55	-2.95	365.97	2546.49
82	83	105.13	-3.51	431.77	2080.25
83	83	105.13	-3.51	431.77	2080.25
83	84	106.70	-4.02	499.45	1483.47
84	84	106.70	0.00	499.46	1483.42
84	85	108.28	0.00	568.89	750.25
85	85	108.28	0.00	568.89	750.25
85	86	109.85	-0.19	639.86	-123.68
86	86	109.85	0.00	639.89	-123.68
86	87	111.43	0.00	712.23	-1141.64
87	87	111.43	0.00	712.23	-1141.64
87	88	112.00	0.00	737.87	-1569.33
88	88	112.00	0.00	737.87	-1569.33
88	89	113.00	0.00	793.80	-2289.69
89	1089	113.00	0.00	-200.17	783.32
89	90	114.00	0.00	-180.16	978.92
90	90	114.00	0.00	-180.16	978.92
90	91	114.58	0.00	-171.56	1088.22
91	91	114.58	0.00	-171.56	1088.22
91	92	116.15	0.00	-147.12	1382.06
92	92	116.15	-0.12	-147.12	1382.06
92	93	117.73	0.02	-121.24	1665.63
93	93	117.73	0.02	-121.24	1665.63
93	94	119.30	0.02	-93.77	1934.50
94	94	119.30	-0.55	-93.76	1934.57
94	95	120.88	-0.34	-64.60	2183.28
95	95	120.88	-0.34	-64.60	2183.28
95	96	122.45	-0.12	-33.75	2405.62
96	96	122.45	0.00	-33.76	2405.55
96	97	124.03	0.00	-1.11	2594.86
97	97	124.03	0.00	-1.11	2594.86
97	98	125.60	0.00	35.13	2846.40
98	98	125.60	0.00	35.13	2846.40
98	99	127.18	0.00	75.53	2997.91
99	99	127.18	0.00	75.53	2997.91
99	100	128.75	0.00	115.81	3060.33
100	100	128.75	0.00	115.81	3060.33
100	101	130.33	0.00	171.40	3695.07
101	101	130.33	0.00	171.40	3695.07
101	102	131.90	0.00	230.71	3597.71
102	102	131.90	0.00	230.71	3597.71
102	103	133.48	0.00	292.14	3393.51

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.IPF75B.VY+

Rotura VY+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	292.14	3393.51
103	104	135.05	0.00	355.99	3123.08
104	104	135.05	-2.53	355.98	3123.17
104	105	136.63	-2.94	422.17	2668.35
105	105	136.63	-2.94	422.17	2668.35
105	106	138.20	-3.44	490.11	2082.78
106	106	138.20	-0.02	490.11	2082.72
106	107	139.78	-0.02	559.77	1360.93
107	107	139.78	-0.02	559.77	1360.93
107	108	141.35	-0.47	630.78	503.26
108	108	141.35	0.00	630.84	503.26
108	109	142.93	0.00	703.23	-501.10
109	109	142.93	0.00	703.23	-501.10
109	110	143.50	0.00	728.71	-890.34
110	110	143.50	0.00	728.71	-890.34
110	111	144.50	0.00	784.84	-1636.08
111	1111	144.50	0.00	-134.04	940.22
111	112	145.50	0.00	-114.01	1069.83
112	112	145.50	0.00	-114.01	1069.83
112	113	145.68	0.00	-111.39	1091.67
113	113	145.68	0.00	-111.39	1091.67
113	114	146.85	0.00	-93.45	1236.09
114	114	146.85	0.02	-93.46	1236.09
114	115	148.03	0.16	-74.61	1375.70
115	115	148.03	0.16	-74.61	1375.70
115	116	149.20	0.16	-54.81	1508.77
116	116	149.20	-0.38	-54.77	1508.84
116	117	150.38	-0.18	-33.93	1633.17
117	117	150.38	-0.18	-33.93	1633.17
117	118	151.55	0.03	-12.05	1746.02
118	118	151.55	0.00	-12.06	1745.96
118	119	152.73	0.00	10.96	1844.29
119	119	152.73	0.00	10.96	1844.29
119	120	153.90	0.00	35.14	1924.72
120	120	153.90	0.00	35.14	1924.72
120	121	155.08	0.00	62.00	2002.97
121	121	155.08	0.00	62.00	2002.97
121	122	156.25	0.00	88.60	2034.89
122	122	156.25	0.00	88.60	2034.89
122	123	157.43	0.00	123.48	2381.82
123	123	157.43	0.00	123.48	2381.82
123	124	158.60	0.00	159.51	2250.62
124	124	158.60	0.00	159.51	2250.62
124	125	159.78	0.00	201.34	2497.66
125	125	159.78	0.00	201.34	2497.66
125	126	160.95	0.00	247.31	2362.00
126	126	160.95	0.00	247.31	2362.00
126	127	162.13	0.00	294.85	2159.15
127	127	162.13	0.00	294.85	2159.15
127	128	163.30	0.00	343.96	1883.60
128	128	163.30	0.00	343.96	1883.60

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.IPF75B.VY+

Rotura VY+. Dominante IPF75B. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	394.22	1536.49
129	129	164.48	0.00	394.22	1536.49
129	130	165.65	0.00	445.55	1114.80
130	130	165.65	0.00	445.55	1114.80
130	131	166.83	0.00	498.37	605.95
131	131	166.83	0.00	498.37	605.95
131	132	167.00	0.00	506.55	522.46
132	132	167.00	0.00	506.55	522.46
132	133	168.00	0.00	561.81	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.Tinf.IPF75B.VY-

Dominante IPF75B.EnvTrenGen.VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-558.58	0.00
1	2	1.00	0.00	-503.34	519.32
2	2	1.00	0.00	-503.34	519.32
2	3	1.18	0.00	-495.16	602.16
3	3	1.18	0.00	-495.16	602.16
3	4	2.35	0.00	-442.31	1107.24
4	4	2.35	0.00	-442.31	1107.24
4	5	3.53	0.00	-391.05	1525.29
5	5	3.53	0.00	-391.05	1525.29
5	6	4.70	0.00	-340.85	1868.94
6	6	4.70	0.00	-340.85	1868.94
6	7	5.88	0.00	-291.76	2141.18
7	7	5.88	0.00	-291.76	2141.18
7	8	7.05	0.00	-244.33	2341.02
8	8	7.05	0.00	-244.33	2341.02
8	9	8.23	0.00	-198.45	2473.97
9	9	8.23	0.00	-198.45	2473.97
9	10	9.40	0.00	-156.04	2217.90
10	10	9.40	0.00	-156.04	2217.90
10	11	10.58	0.00	-119.69	2341.62
11	11	10.58	0.00	-119.69	2341.62
11	12	11.75	0.00	-86.31	2007.48
12	12	11.75	0.00	-86.31	2007.48
12	13	12.93	0.00	-57.31	1942.37
13	13	12.93	0.00	-57.31	1942.37
13	14	14.10	0.00	-32.04	1881.12
14	14	14.10	0.00	-32.04	1881.12
14	15	15.28	0.00	-7.61	1793.16
15	15	15.28	0.00	-7.61	1793.16
15	16	16.45	0.00	15.33	1692.38
16	16	16.45	-0.01	15.33	1692.44
16	17	17.63	-0.23	37.14	1577.02
17	17	17.63	-0.23	37.14	1577.02
17	18	18.80	-0.43	57.89	1450.02
18	18	18.80	0.18	57.92	1449.95
18	19	19.98	0.18	77.67	1313.91
19	19	19.98	0.18	77.67	1313.91
19	20	21.15	0.04	96.51	1171.16
20	20	21.15	0.00	96.52	1171.16
20	21	22.33	0.00	114.47	1023.34
21	21	22.33	0.00	114.47	1023.34
21	22	22.50	0.00	117.08	1000.95
22	22	22.50	0.00	117.08	1000.95
22	23	23.50	0.00	137.09	868.37
23	1023	23.50	0.00	-729.41	-1913.66
23	24	24.50	0.00	-672.13	-1260.55
24	24	24.50	0.00	-672.13	-1260.55
24	25	24.95	0.00	-652.83	-968.42
25	25	24.95	0.00	-652.83	-968.42
25	26	26.40	0.00	-586.93	-85.41
26	26	26.40	-0.21	-586.89	-209.41

Programa DINTEL IDEAM S.A.
Rotura.Tinf.IPF75B.VY+
GRÁFICO DE ESFUERZOS
N (T) V (T) Mz (Tm)
corta .xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.VY-

Dominante IPF75B.EnvTrenGen.VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.04	-521.23	491.01
27	27	27.85	-0.04	-521.23	491.01
27	28	29.30	-0.04	-457.58	1119.31
28	28	29.30	-4.01	-457.55	1119.35
28	29	30.75	-3.45	-395.78	1651.50
29	29	30.75	-3.45	-395.78	1651.50
29	30	32.20	-2.96	-334.47	2023.85
30	30	32.20	0.00	-334.47	2023.79
30	31	33.65	0.00	-275.40	2332.65
31	31	33.65	0.00	-275.40	2332.65
31	32	35.10	0.00	-218.39	2556.38
32	32	35.10	0.00	-218.39	2556.38
32	33	36.55	0.00	-163.08	2554.56
33	33	36.55	0.00	-163.08	2554.56
33	34	38.00	0.00	-111.69	2061.79
34	34	38.00	0.00	-111.69	2061.79
34	35	39.45	0.00	-72.67	1982.36
35	35	39.45	0.00	-72.67	1982.36
35	36	40.90	0.00	-36.98	1796.75
36	36	40.90	0.00	-36.98	1796.75
36	37	42.35	0.00	-5.35	1680.82
37	37	42.35	0.00	-5.35	1680.82
37	38	43.80	0.00	24.59	1531.12
38	38	43.80	-0.42	24.59	1531.19
38	39	45.25	-0.73	52.94	1353.60
39	39	45.25	-0.73	52.94	1353.60
39	40	46.70	-1.03	79.70	1153.53
40	40	46.70	0.04	79.70	1153.48
40	41	48.15	0.04	104.97	936.08
41	41	48.15	0.04	104.97	936.08
41	42	49.60	0.17	128.78	705.99
42	42	49.60	0.00	128.77	705.99
42	43	51.05	0.00	151.22	466.85
43	43	51.05	0.00	151.22	466.85
43	44	51.50	0.00	157.97	391.15
44	44	51.50	0.00	157.97	391.15
44	45	52.50	0.00	178.00	217.76
45	1045	52.50	0.00	-739.30	-1547.90
45	46	53.50	0.00	-682.07	-886.64
46	46	53.50	0.00	-682.07	-886.64
46	47	53.95	0.00	-662.75	-590.13
47	47	53.95	0.00	-662.75	-590.13
47	48	55.40	0.00	-596.81	308.16
48	48	55.40	-0.47	-596.75	308.16
48	49	56.85	0.00	-531.19	1020.99
49	49	56.85	0.00	-531.19	1020.99
49	50	58.30	0.00	-467.50	1662.76
50	50	58.30	-3.57	-467.49	1662.83
50	51	59.75	-3.12	-405.70	2208.41
51	51	59.75	-3.12	-405.70	2208.41
51	52	61.20	-2.70	-344.52	2590.90

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.VY-

Dominante IPF75B.EnvTrenGen.VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-344.52	2590.83
52	53	62.65	0.00	-285.43	2912.29
53	53	62.65	0.00	-285.43	2912.29
53	54	64.10	0.00	-228.40	3148.85
54	54	64.10	0.00	-228.40	3148.85
54	55	65.55	0.00	-172.89	3153.57
55	55	65.55	0.00	-172.89	3153.57
55	56	67.00	0.00	-122.49	2675.58
56	56	67.00	0.00	-122.49	2675.58
56	57	68.45	0.00	-82.94	2613.29
57	57	68.45	0.00	-82.94	2613.29
57	58	69.90	0.00	-49.27	2440.72
58	58	69.90	0.00	-49.27	2440.72
58	59	71.35	0.00	-17.61	2339.94
59	59	71.35	0.00	-17.61	2339.94
59	60	72.80	0.00	12.39	2205.56
60	60	72.80	0.06	12.38	2205.62
60	61	74.25	-0.16	40.73	2043.48
61	61	74.25	-0.16	40.73	2043.48
61	62	75.70	-0.36	67.53	1859.21
62	62	75.70	0.00	67.53	1859.16
62	63	77.15	0.00	92.80	1657.93
63	63	77.15	0.00	92.80	1657.93
63	64	78.60	-0.14	116.62	1444.44
64	64	78.60	0.00	116.64	1444.44
64	65	80.05	0.00	139.14	1222.38
65	65	80.05	0.00	139.14	1222.38
65	66	80.50	0.00	145.88	1152.08
66	66	80.50	0.00	145.88	1152.08
66	67	81.50	0.00	165.89	990.67
67	1067	81.50	0.00	-790.41	-1823.65
67	68	82.50	0.00	-734.35	-1103.88
68	68	82.50	0.00	-734.35	-1103.88
68	69	83.08	0.00	-708.83	-680.32
69	69	83.08	0.00	-708.83	-680.32
69	70	84.65	0.00	-636.45	332.70
70	70	84.65	-0.47	-636.41	332.70
70	71	86.23	-0.01	-565.40	1199.45
71	71	86.23	-0.01	-565.40	1199.45
71	72	87.80	-0.01	-495.84	1928.68
72	72	87.80	-3.45	-495.83	1928.73
72	73	89.38	-3.02	-427.95	2521.47
73	73	89.38	-3.02	-427.95	2521.47
73	74	90.95	-2.56	-361.91	2983.40
74	74	90.95	0.00	-361.94	2983.31
74	75	92.53	0.00	-298.30	3259.95
75	75	92.53	0.00	-298.30	3259.95
75	76	94.10	0.00	-237.03	3471.69
76	76	94.10	0.00	-237.03	3471.69
76	77	95.68	0.00	-177.93	3577.04
77	77	95.68	0.00	-177.93	3577.04

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.VY-

Dominante IPF75B.EnvTrenGen.VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	-122.32	2953.53
78	78	97.25	0.00	-122.32	2953.53
78	79	98.83	0.00	-82.21	2900.06
79	79	98.83	0.00	-82.21	2900.06
79	80	100.40	0.00	-41.96	2757.96
80	80	100.40	0.00	-41.96	2757.96
80	81	101.98	0.00	-6.97	2509.74
81	81	101.98	0.00	-6.97	2509.74
81	82	103.55	0.00	25.55	2332.77
82	82	103.55	-0.06	25.55	2332.84
82	83	105.13	-0.28	56.30	2123.24
83	83	105.13	-0.28	56.30	2123.24
83	84	106.70	-0.47	85.40	1887.49
84	84	106.70	0.01	85.38	1887.43
84	85	108.28	0.01	112.80	1631.70
85	85	108.28	0.01	112.80	1631.70
85	86	109.85	-0.13	138.67	1361.44
86	86	109.85	0.00	138.69	1361.44
86	87	111.43	0.00	163.09	1081.00
87	87	111.43	0.00	163.09	1081.00
87	88	112.00	0.00	171.69	976.52
88	88	112.00	0.00	171.69	976.52
88	89	113.00	0.00	191.69	789.46
89	1089	113.00	0.00	-790.22	-2288.07
89	90	114.00	0.00	-734.35	-1571.46
90	90	114.00	0.00	-734.35	-1571.46
90	91	114.58	0.00	-708.65	-1145.69
91	91	114.58	0.00	-708.65	-1145.69
91	92	116.15	0.00	-636.34	-133.22
92	92	116.15	-0.23	-636.33	-133.22
92	93	117.73	-0.04	-565.38	735.17
93	93	117.73	-0.04	-565.38	735.17
93	94	119.30	-0.04	-496.02	1462.92
94	94	119.30	-3.99	-495.99	1462.97
94	95	120.88	-3.47	-428.40	2054.59
95	95	120.88	-3.47	-428.40	2054.59
95	96	122.45	-2.95	-362.70	2516.02
96	96	122.45	0.00	-362.73	2515.96
96	97	124.03	0.00	-299.90	2793.84
97	97	124.03	0.00	-299.90	2793.84
97	98	125.60	0.00	-239.16	3008.51
98	98	125.60	0.00	-239.16	3008.51
98	99	127.18	0.00	-180.63	3118.90
99	99	127.18	0.00	-180.63	3118.90
99	100	128.75	0.00	-124.34	2827.69
100	100	128.75	0.00	-124.34	2827.69
100	101	130.33	0.00	-83.24	2450.96
101	101	130.33	0.00	-83.24	2450.96
101	102	131.90	0.00	-43.51	2190.25
102	102	131.90	0.00	-43.51	2190.25
102	103	133.48	0.00	-9.56	2059.77

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.VY-

Dominante IPF75B.EnvTrenGen.VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	-9.56	2059.77
103	104	135.05	0.00	22.62	1890.73
104	104	135.05	-0.38	22.62	1890.80
104	105	136.63	-0.68	53.07	1689.77
105	105	136.63	-0.68	53.07	1689.77
105	106	138.20	-1.01	81.85	1462.93
106	106	138.20	0.04	81.85	1462.89
106	107	139.78	0.04	109.05	1215.90
107	107	139.78	0.04	109.05	1215.90
107	108	141.35	0.16	134.86	949.83
108	108	141.35	0.00	134.87	949.83
108	109	142.93	0.00	159.21	676.54
109	109	142.93	0.00	159.21	676.54
109	110	143.50	0.00	167.78	574.50
110	110	143.50	0.00	167.78	574.50
110	111	144.50	0.00	187.78	391.53
111	1111	144.50	0.00	-658.69	-2197.79
111	112	145.50	0.00	-604.30	-1572.02
112	112	145.50	0.00	-604.30	-1572.02
112	113	145.68	0.00	-596.80	-1469.14
113	113	145.68	0.00	-596.80	-1469.14
113	114	146.85	0.00	-542.78	-823.49
114	114	146.85	-0.36	-542.73	-823.49
114	115	148.03	-0.17	-489.33	-257.69
115	115	148.03	-0.17	-489.33	-257.69
115	116	149.20	-0.17	-436.66	229.30
116	116	149.20	-4.80	-436.64	229.36
116	117	150.38	-4.22	-384.74	638.78
117	117	150.38	-4.22	-384.74	638.78
117	118	151.55	-3.72	-334.35	974.42
118	118	151.55	0.00	-334.40	974.37
118	119	152.73	0.00	-285.76	1224.46
119	119	152.73	0.00	-285.76	1224.46
119	120	153.90	0.00	-237.74	1390.62
120	120	153.90	0.00	-237.74	1390.62
120	121	155.08	0.00	-191.37	1548.64
121	121	155.08	0.00	-191.37	1548.64
121	122	156.25	0.00	-146.27	1547.78
122	122	156.25	0.00	-146.27	1547.78
122	123	157.43	0.00	-105.38	1426.01
123	123	157.43	0.00	-105.38	1426.01
123	124	158.60	0.00	-67.18	1179.36
124	124	158.60	0.00	-67.18	1179.36
124	125	159.78	0.00	-37.22	878.09
125	125	159.78	0.00	-37.22	878.09
125	126	160.95	0.00	-11.21	791.87
126	126	160.95	0.00	-11.21	791.87
126	127	162.13	0.00	13.42	684.66
127	127	162.13	0.00	13.42	684.66
127	128	163.30	0.00	36.66	561.26
128	128	163.30	0.00	36.66	561.26

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.Tinf.IPF75B.VY-

Dominante IPF75B.EnvTrenGen.VY-. Tinf

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To + [1; 1.35]HBCP + [1; 1.-

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	58.52	426.47
129	129	164.48	0.00	58.52	426.47
129	130	165.65	0.00	78.93	285.25
130	130	165.65	0.00	78.93	285.25
130	131	166.83	0.00	97.93	142.50
131	131	166.83	0.00	97.93	142.50
131	132	167.00	0.00	100.63	121.42
132	132	167.00	0.00	100.63	121.42
132	133	168.00	0.00	122.23	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Envolvente cortante sección completa

Envolvente cortante sección completa

Coef. exc:

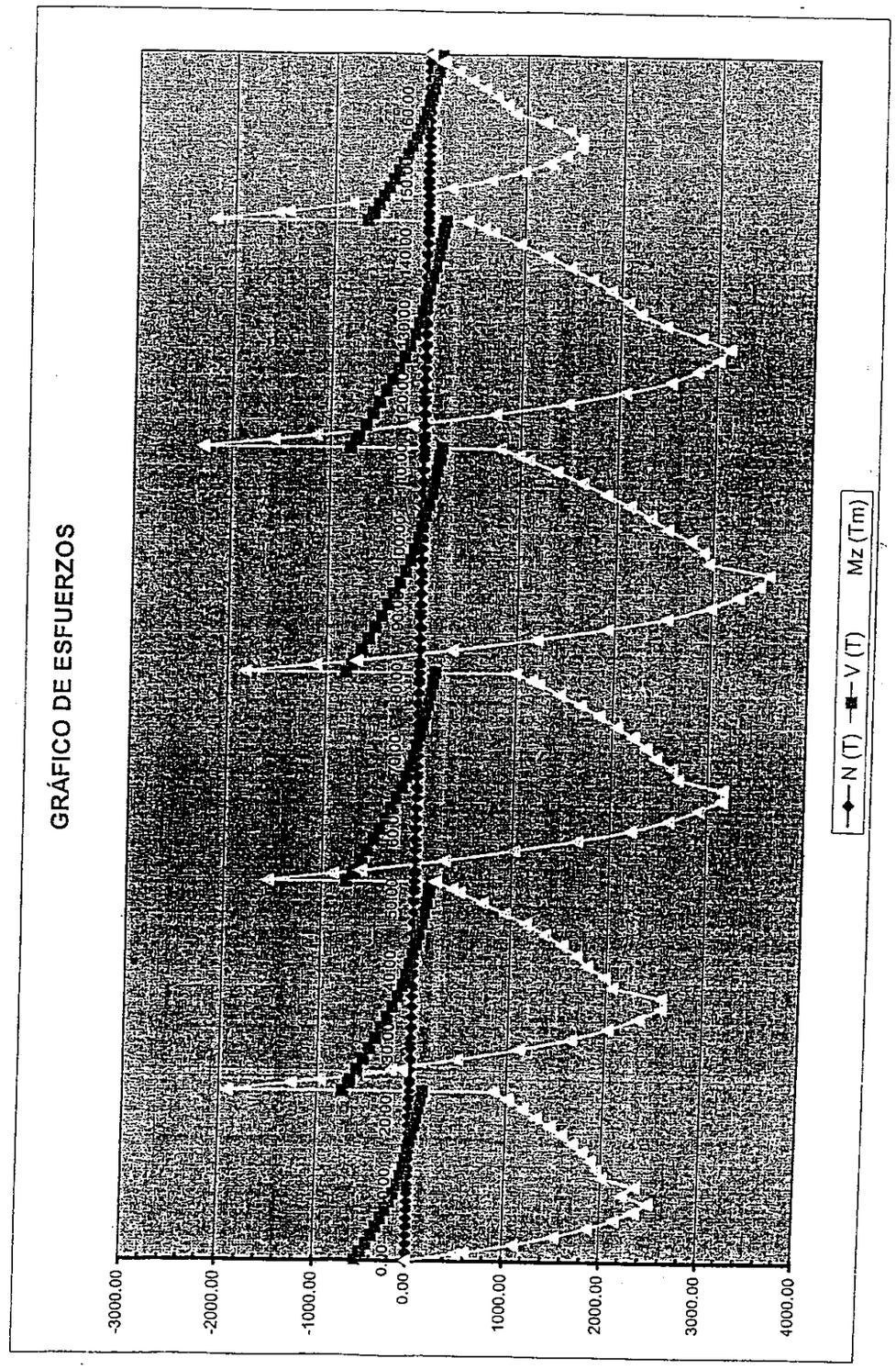
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	558.58	0.00
1	2	1.00	0.00	503.34	0.00
2	2	1.00	0.00	503.34	0.00
2	3	1.18	0.00	495.16	0.00
3	3	1.18	0.00	495.16	0.00
3	4	2.35	0.00	442.31	0.00
4	4	2.35	0.00	442.31	0.00
4	5	3.53	0.00	391.05	0.00
5	5	3.53	0.00	391.05	0.00
5	6	4.70	0.00	340.85	0.00
6	6	4.70	0.00	340.85	0.00
6	7	5.88	0.00	291.76	0.00
7	7	5.88	0.00	291.76	0.00
7	8	7.05	0.00	244.33	0.00
8	8	7.05	0.00	244.33	0.00
8	9	8.23	0.00	198.45	0.00
9	9	8.23	0.00	198.45	0.00
9	10	9.40	0.00	156.04	0.00
10	10	9.40	0.00	156.04	0.00
10	11	10.58	0.00	119.69	0.00
11	11	10.58	0.00	119.69	0.00
11	12	11.75	0.00	158.84	0.00
12	12	11.75	0.00	158.84	0.00
12	13	12.93	0.00	204.27	0.00
13	13	12.93	0.00	204.27	0.00
13	14	14.10	0.00	250.67	0.00
14	14	14.10	0.00	250.67	0.00
14	15	15.28	0.00	298.92	0.00
15	15	15.28	0.00	298.92	0.00
15	16	16.45	0.00	347.62	0.00
16	16	16.45	-0.01	347.60	0.00
16	17	17.63	-0.23	398.03	0.00
17	17	17.63	-0.23	398.03	0.00
17	18	18.80	-0.43	449.97	0.00
18	18	18.80	0.18	449.91	0.00
18	19	19.98	0.18	502.59	0.00
19	19	19.98	0.18	502.59	0.00
19	20	21.15	0.04	555.95	0.00
20	20	21.15	0.00	556.21	0.00
20	21	22.33	0.00	610.22	0.00
21	21	22.33	0.00	610.22	0.00
21	22	22.50	0.00	617.75	0.00
22	22	22.50	0.00	617.75	0.00
22	23	23.50	0.00	672.06	0.00
23	1023	23.50	0.00	731.42	0.00
23	24	24.50	0.00	674.14	0.00
24	24	24.50	0.00	674.14	0.00
24	25	24.95	0.00	654.84	0.00
25	25	24.95	0.00	654.84	0.00
25	26	26.40	0.00	588.94	0.00
26	26	26.40	-0.21	588.78	0.00
26	27	27.85	-0.04	523.12	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Envolvente cortante sección completa
Envolvente cortante sección completa

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	558.58	0.00
27	27	27.85	-0.04	523.12	0.00
27	28	29.30	-0.04	459.48	0.00
28	28	29.30	-4.01	459.45	0.00
28	29	30.75	-3.45	397.66	0.00
29	29	30.75	-3.45	397.66	0.00
29	30	32.20	-2.96	336.35	0.00
30	30	32.20	0.00	336.37	0.00
30	31	33.65	0.00	277.29	0.00
31	31	33.65	0.00	277.29	0.00
31	32	35.10	0.00	220.29	0.00
32	32	35.10	0.00	220.29	0.00
32	33	36.55	0.00	164.96	0.00
33	33	36.55	0.00	164.96	0.00
33	34	38.00	0.00	117.41	0.00
34	34	38.00	0.00	117.41	0.00
34	35	39.45	0.00	168.38	0.00
35	35	39.45	0.00	168.38	0.00
35	36	40.90	0.00	222.53	0.00
36	36	40.90	0.00	222.53	0.00
36	37	42.35	0.00	279.34	0.00
37	37	42.35	0.00	279.34	0.00
37	38	43.80	0.00	338.21	0.00
38	38	43.80	-0.42	338.19	0.00
38	39	45.25	-0.73	399.10	0.00
39	39	45.25	-0.73	399.10	0.00
39	40	46.70	-1.03	460.80	0.00
40	40	46.70	0.04	460.79	0.00
40	41	48.15	0.04	524.37	0.00
41	41	48.15	0.04	524.37	0.00
41	42	49.60	0.17	589.79	0.00
42	42	49.60	0.00	589.86	0.00
42	43	51.05	0.00	655.78	0.00
43	43	51.05	0.00	655.78	0.00
43	44	51.50	0.00	675.08	0.00
44	44	51.50	0.00	675.08	0.00
44	45	52.50	0.00	732.23	0.00
45	1045	52.50	0.00	739.30	0.00
45	46	53.50	0.00	682.07	0.00
46	46	53.50	0.00	682.07	0.00
46	47	53.95	0.00	662.75	0.00
47	47	53.95	0.00	662.75	0.00
47	48	55.40	0.00	596.81	0.00
48	48	55.40	-0.47	596.75	0.00
48	49	56.85	0.00	531.19	0.00
49	49	56.85	0.00	531.19	0.00
49	50	58.30	0.00	467.50	0.00
50	50	58.30	-3.57	467.49	0.00
50	51	59.75	-3.12	405.70	0.00
51	51	59.75	-3.12	405.70	0.00
51	52	61.20	-2.70	344.52	0.00
52	52	61.20	0.00	344.52	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

Envolvente cortante sección completa

Envolvente cortante sección completa

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	558.58	0.00
52	53	62.65	0.00	285.43	0.00
53	53	62.65	0.00	285.43	0.00
53	54	64.10	0.00	228.40	0.00
54	54	64.10	0.00	228.40	0.00
54	55	65.55	0.00	172.89	0.00
55	55	65.55	0.00	172.89	0.00
55	56	67.00	0.00	125.74	0.00
56	56	67.00	0.00	125.74	0.00
56	57	68.45	0.00	176.79	0.00
57	57	68.45	0.00	176.79	0.00
57	58	69.90	0.00	231.29	0.00
58	58	69.90	0.00	231.29	0.00
58	59	71.35	0.00	288.15	0.00
59	59	71.35	0.00	288.15	0.00
59	60	72.80	0.00	347.03	0.00
60	60	72.80	0.06	347.01	0.00
60	61	74.25	-0.16	407.81	0.00
61	61	74.25	-0.16	407.81	0.00
61	62	75.70	-0.36	469.49	0.00
62	62	75.70	0.00	469.53	0.00
62	63	77.15	0.00	533.10	0.00
63	63	77.15	0.00	533.10	0.00
63	64	78.60	-0.14	598.40	0.00
64	64	78.60	0.00	598.53	0.00
64	65	80.05	0.00	664.58	0.00
65	65	80.05	0.00	664.58	0.00
65	66	80.50	0.00	683.86	0.00
66	66	80.50	0.00	683.86	0.00
66	67	81.50	0.00	740.97	0.00
67	1067	81.50	0.00	790.41	0.00
67	68	82.50	0.00	734.35	0.00
68	68	82.50	0.00	734.35	0.00
68	69	83.08	0.00	708.83	0.00
69	69	83.08	0.00	708.83	0.00
69	70	84.65	0.00	636.45	0.00
70	70	84.65	-0.47	636.41	0.00
70	71	86.23	-0.01	565.40	0.00
71	71	86.23	-0.01	565.40	0.00
71	72	87.80	-0.01	495.84	0.00
72	72	87.80	-3.45	495.83	0.00
72	73	89.38	-3.02	427.95	0.00
73	73	89.38	-3.02	427.95	0.00
73	74	90.95	-2.56	361.91	0.00
74	74	90.95	0.00	361.94	0.00
74	75	92.53	0.00	298.30	0.00
75	75	92.53	0.00	298.30	0.00
75	76	94.10	0.00	237.03	0.00
76	76	94.10	0.00	237.03	0.00
76	77	95.68	0.00	177.93	0.00
77	77	95.68	0.00	177.93	0.00
77	78	97.25	0.00	128.13	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Envolvente cortante sección completa

Envolvente cortante sección completa

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	558.58	0.00
78	78	97.25	0.00	128.13	0.00
78	79	98.83	0.00	184.69	0.00
79	79	98.83	0.00	184.69	0.00
79	80	100.40	0.00	243.45	0.00
80	80	100.40	0.00	243.45	0.00
80	81	101.98	0.00	304.35	0.00
81	81	101.98	0.00	304.35	0.00
81	82	103.55	0.00	367.54	0.00
82	82	103.55	-0.06	367.50	0.00
82	83	105.13	-0.28	433.30	0.00
83	83	105.13	-0.28	433.30	0.00
83	84	106.70	-0.47	500.99	0.00
84	84	106.70	0.01	501.02	0.00
84	85	108.28	0.01	570.45	0.00
85	85	108.28	0.01	570.45	0.00
85	86	109.85	-0.13	641.43	0.00
86	86	109.85	0.00	641.54	0.00
86	87	111.43	0.00	713.89	0.00
87	87	111.43	0.00	713.89	0.00
87	88	112.00	0.00	739.52	0.00
88	88	112.00	0.00	739.52	0.00
88	89	113.00	0.00	795.45	0.00
89	1089	113.00	0.00	790.60	0.00
89	90	114.00	0.00	734.73	0.00
90	90	114.00	0.00	734.73	0.00
90	91	114.58	0.00	709.03	0.00
91	91	114.58	0.00	709.03	0.00
91	92	116.15	0.00	636.71	0.00
92	92	116.15	-0.23	636.59	0.00
92	93	117.73	-0.04	565.64	0.00
93	93	117.73	-0.04	565.64	0.00
93	94	119.30	-0.04	496.28	0.00
94	94	119.30	-3.99	496.24	0.00
94	95	120.88	-3.47	428.65	0.00
95	95	120.88	-3.47	428.65	0.00
95	96	122.45	-2.95	362.94	0.00
96	96	122.45	0.00	362.99	0.00
96	97	124.03	0.00	300.15	0.00
97	97	124.03	0.00	300.15	0.00
97	98	125.60	0.00	239.41	0.00
98	98	125.60	0.00	239.41	0.00
98	99	127.18	0.00	180.89	0.00
99	99	127.18	0.00	180.89	0.00
99	100	128.75	0.00	124.59	0.00
100	100	128.75	0.00	124.59	0.00
100	101	130.33	0.00	171.40	0.00
101	101	130.33	0.00	171.40	0.00
101	102	131.90	0.00	230.71	0.00
102	102	131.90	0.00	230.71	0.00
102	103	133.48	0.00	292.14	0.00
103	103	133.48	0.00	292.14	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Envolvente cortante sección completa
Envolvente cortante sección completa

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	558.58	0.00
103	104	135.05	0.00	355.99	0.00
104	104	135.05	-0.38	355.98	0.00
104	105	136.63	-0.68	422.17	0.00
105	105	136.63	-0.68	422.17	0.00
105	106	138.20	-1.01	490.11	0.00
106	106	138.20	0.04	490.11	0.00
106	107	139.78	0.04	559.77	0.00
107	107	139.78	0.04	559.77	0.00
107	108	141.35	0.16	630.78	0.00
108	108	141.35	0.00	630.84	0.00
108	109	142.93	0.00	703.23	0.00
109	109	142.93	0.00	703.23	0.00
109	110	143.50	0.00	728.71	0.00
110	110	143.50	0.00	728.71	0.00
110	111	144.50	0.00	784.84	0.00
111	1111	144.50	0.00	679.13	0.00
111	112	145.50	0.00	624.74	0.00
112	112	145.50	0.00	624.74	0.00
112	113	145.68	0.00	617.23	0.00
113	113	145.68	0.00	617.23	0.00
113	114	146.85	0.00	563.22	0.00
114	114	146.85	-0.36	562.96	0.00
114	115	148.03	-0.17	509.53	0.00
115	115	148.03	-0.17	509.53	0.00
115	116	149.20	-0.17	456.85	0.00
116	116	149.20	-4.80	456.93	0.00
116	117	150.38	-4.22	405.02	0.00
117	117	150.38	-4.22	405.02	0.00
117	118	151.55	-3.72	354.64	0.00
118	118	151.55	0.00	354.69	0.00
118	119	152.73	0.00	306.05	0.00
119	119	152.73	0.00	306.05	0.00
119	120	153.90	0.00	258.03	0.00
120	120	153.90	0.00	258.03	0.00
120	121	155.08	0.00	211.65	0.00
121	121	155.08	0.00	211.65	0.00
121	122	156.25	0.00	166.56	0.00
122	122	156.25	0.00	166.56	0.00
122	123	157.43	0.00	125.66	0.00
123	123	157.43	0.00	125.66	0.00
123	124	158.60	0.00	159.51	0.00
124	124	158.60	0.00	159.51	0.00
124	125	159.78	0.00	201.34	0.00
125	125	159.78	0.00	201.34	0.00
125	126	160.95	0.00	247.31	0.00
126	126	160.95	0.00	247.31	0.00
126	127	162.13	0.00	294.85	0.00
127	127	162.13	0.00	294.85	0.00
127	128	163.30	0.00	343.96	0.00
128	128	163.30	0.00	343.96	0.00
128	129	164.48	0.00	394.22	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Envolvente cortante sección completa
Envolvente cortante sección completa

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	558.58	0.00
129	129	164.48	0.00	394.22	0.00
129	130	165.65	0.00	445.55	0.00
130	130	165.65	0.00	445.55	0.00
130	131	166.83	0.00	498.37	0.00
131	131	166.83	0.00	498.37	0.00
131	132	167.00	0.00	506.55	0.00
132	132	167.00	0.00	506.55	0.00
132	133	168.00	0.00	561.81	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.F4.VY+

Rotura.S SIMPLE.VY+. T0

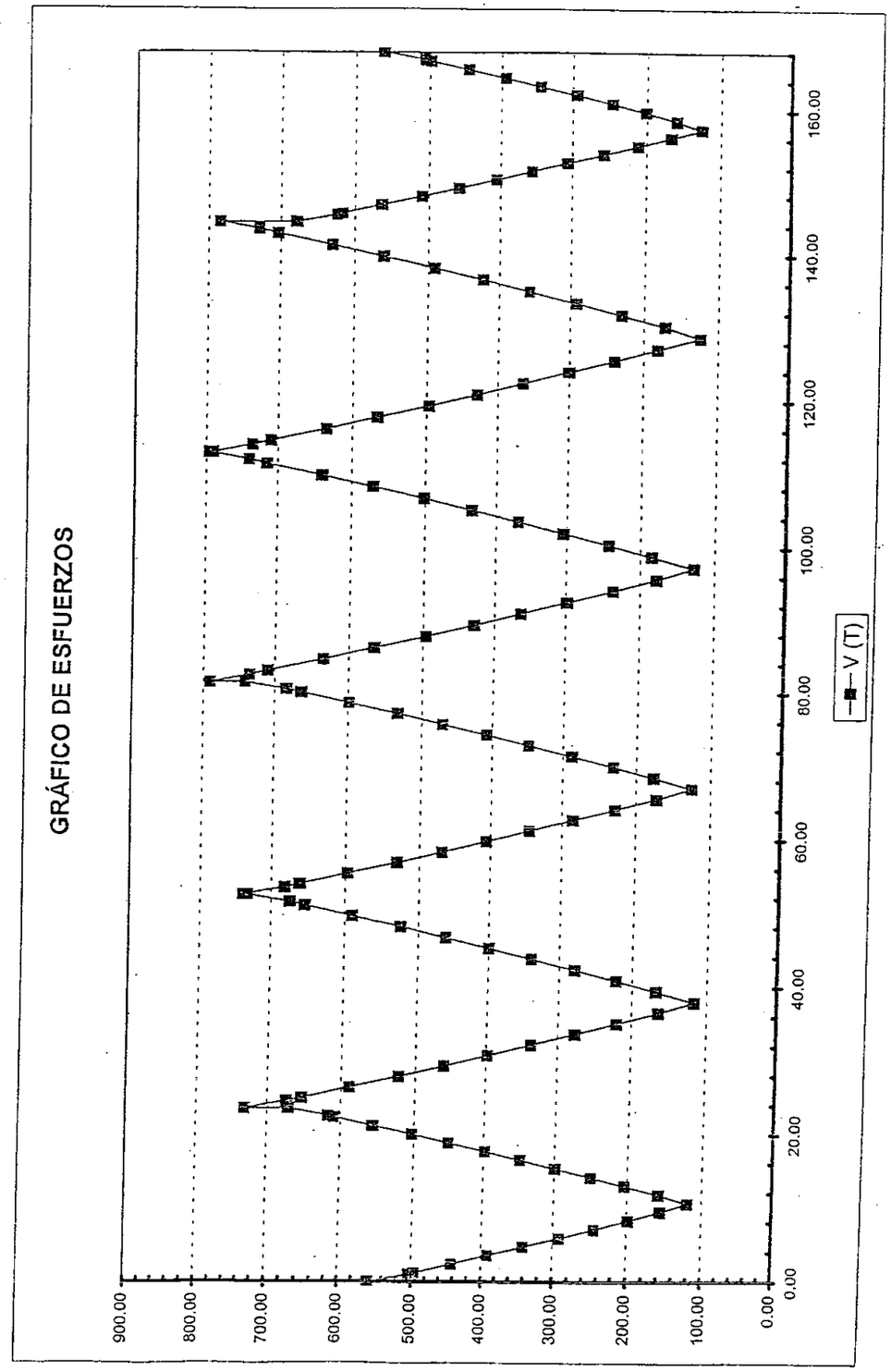
[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-88.75	0.00
1	2	1.00	0.00	-74.73	81.75
2	2	1.00	0.00	-74.73	81.75
2	3	1.18	0.00	-73.46	94.72
3	3	1.18	0.00	-73.46	94.72
3	4	2.35	0.00	-64.88	175.98
4	4	2.35	0.00	-64.88	175.98
4	5	3.53	0.00	-56.29	247.18
5	5	3.53	0.00	-56.29	247.18
5	6	4.70	0.00	-47.72	308.28
6	6	4.70	0.00	-47.72	308.28
6	7	5.88	0.00	-39.14	359.32
7	7	5.88	0.00	-39.14	359.32
7	8	7.05	0.00	-30.56	400.27
8	8	7.05	0.00	-30.56	400.27
8	9	8.23	0.00	-21.98	431.15
9	9	8.23	0.00	-21.98	431.15
9	10	9.40	0.00	-13.40	451.94
10	10	9.40	0.00	-13.40	451.94
10	11	10.58	0.00	-4.83	462.65
11	11	10.58	0.00	-4.83	462.65
11	12	11.75	0.00	4.04	614.02
12	12	11.75	0.00	4.04	614.02
12	13	12.93	0.00	15.61	625.97
13	13	12.93	0.00	15.61	625.97
13	14	14.10	0.00	27.20	600.82
14	14	14.10	0.00	27.20	600.82
14	15	15.28	0.00	38.78	562.06
15	15	15.28	0.00	38.78	562.06
15	16	16.45	0.00	50.36	509.68
16	16	16.45	1.09	50.35	509.68
16	17	17.63	1.36	61.93	443.71
17	17	17.63	1.36	61.93	443.71
17	18	18.80	1.64	73.52	364.13
18	18	18.80	-0.76	73.43	364.13
18	19	19.98	-0.76	85.03	270.91
19	19	19.98	-0.76	85.03	270.91
19	20	21.15	-0.76	91.87	166.89
20	20	21.15	0.00	91.97	166.89
20	21	22.33	0.00	98.81	54.80
21	21	22.33	0.00	98.81	54.80
21	22	22.50	0.00	99.84	37.43
22	22	22.50	0.00	99.84	37.43
22	23	23.50	0.00	113.02	-69.00
23	1023	23.50	0.00	-98.86	-56.46
23	24	24.50	0.00	-89.10	37.53
24	24	24.50	0.00	-89.10	37.53
24	25	24.95	0.00	-87.16	77.19
25	25	24.95	0.00	-87.16	77.19
25	26	26.40	0.00	-80.90	199.02
26	26	26.40	-0.11	-80.88	199.02

27/09/01

Programa DINTEL IDEAM S.A.
Envolvente cortante sección completa



cortante.xls

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.F4.VY+

Rotura.S SIMPLE.VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.11	-74.61	311.76
27	27	27.85	-0.11	-74.61	311.76
27	28	29.30	-0.11	-64.03	412.30
28	28	29.30	1.22	-64.04	412.30
28	29	30.75	1.00	-53.45	497.48
29	29	30.75	1.00	-53.45	497.48
29	30	32.20	0.81	-42.86	567.32
30	30	32.20	0.00	-42.87	567.32
30	31	33.65	0.00	-32.28	621.81
31	31	33.65	0.00	-32.28	621.81
31	32	35.10	0.00	-21.70	660.93
32	32	35.10	0.00	-21.70	660.93
32	33	36.55	0.00	-11.10	684.71
33	33	36.55	0.00	-11.10	684.71
33	34	38.00	0.00	-0.52	693.15
34	34	38.00	0.00	-0.52	693.15
34	35	39.45	0.00	13.76	943.25
35	35	39.45	0.00	13.76	943.25
35	36	40.90	0.00	28.07	912.92
36	36	40.90	0.00	28.07	912.92
36	37	42.35	0.00	42.35	861.87
37	37	42.35	0.00	42.35	861.87
37	38	43.80	0.00	56.65	790.09
38	38	43.80	1.09	56.64	790.09
38	39	45.25	1.35	70.93	697.59
39	39	45.25	1.35	70.93	697.59
39	40	46.70	1.65	85.23	584.36
40	40	46.70	0.11	85.26	584.36
40	41	48.15	0.11	99.54	450.40
41	41	48.15	0.11	99.54	450.40
41	42	49.60	0.11	108.01	299.96
42	42	49.60	0.00	107.99	299.96
42	43	51.05	0.00	116.44	137.27
43	43	51.05	0.00	116.44	137.27
43	44	51.50	0.00	119.06	84.28
44	44	51.50	0.00	119.06	84.28
44	45	52.50	0.00	132.24	-41.37
45	1045	52.50	0.00	-98.29	-50.57
45	46	53.50	0.00	-88.53	42.84
46	46	53.50	0.00	-88.53	42.84
46	47	53.95	0.00	-86.59	82.25
47	47	53.95	0.00	-86.59	82.25
47	48	55.40	0.00	-80.33	203.23
48	48	55.40	0.01	-80.33	203.23
48	49	56.85	0.01	-74.06	315.14
49	49	56.85	0.01	-74.06	315.14
49	50	58.30	0.01	-63.47	414.85
50	50	58.30	1.22	-63.47	414.85
50	51	59.75	1.00	-52.88	499.21
51	51	59.75	1.00	-52.88	499.21
51	52	61.20	0.81	-42.29	568.20

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.F4.VY+

Rotura.S SIMPLE.VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-42.30	568.20
52	53	62.65	0.00	-31.71	621.85
53	53	62.65	0.00	-31.71	621.85
53	54	64.10	0.00	-21.13	660.15
54	54	64.10	0.00	-21.13	660.15
54	55	65.55	0.00	-10.53	683.10
55	55	65.55	0.00	-10.53	683.10
55	56	67.00	0.00	0.06	690.69
56	56	67.00	0.00	0.06	690.69
56	57	68.45	0.00	14.34	939.97
57	57	68.45	0.00	14.34	939.97
57	58	69.90	0.00	28.65	908.80
58	58	69.90	0.00	28.65	908.80
58	59	71.35	0.00	42.93	856.92
59	59	71.35	0.00	42.93	856.92
59	60	72.80	0.00	57.23	784.30
60	60	72.80	1.09	57.21	784.30
60	61	74.25	1.35	71.51	690.96
61	61	74.25	1.35	71.51	690.96
61	62	75.70	1.65	85.81	576.91
62	62	75.70	-0.01	85.82	576.91
62	63	77.15	-0.01	100.10	442.11
63	63	77.15	-0.01	100.10	442.11
63	64	78.60	-0.01	108.57	290.84
64	64	78.60	0.00	108.57	290.84
64	65	80.05	0.00	117.02	127.32
65	65	80.05	0.00	117.02	127.32
65	66	80.50	0.00	119.64	74.06
66	66	80.50	0.00	119.64	74.06
66	67	81.50	0.00	132.81	-52.16
67	1067	81.50	0.00	-106.53	-42.68
67	68	82.50	0.00	-96.77	58.96
68	68	82.50	0.00	-96.77	58.96
68	69	83.08	0.00	-94.29	113.89
69	69	83.08	0.00	-94.29	113.89
69	70	84.65	0.00	-87.48	257.01
70	70	84.65	-0.04	-87.47	257.01
70	71	86.23	-0.04	-80.67	389.44
71	71	86.23	-0.04	-80.67	389.44
71	72	87.80	-0.04	-69.17	507.44
72	72	87.80	1.22	-69.17	507.44
72	73	89.38	1.00	-57.66	607.33
73	73	89.38	1.00	-57.66	607.33
73	74	90.95	0.81	-46.16	689.10
74	74	90.95	0.00	-46.18	689.10
74	75	92.53	0.00	-34.67	752.77
75	75	92.53	0.00	-34.67	752.77
75	76	94.10	0.00	-23.17	798.33
76	76	94.10	0.00	-23.17	798.33
76	77	95.68	0.00	-11.68	825.77
77	77	95.68	0.00	-11.68	825.77

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.F4.VY+

Rotura.S SIMPLE.VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	-0.18	835.09
78	78	97.25	0.00	-0.18	835.09
78	79	98.83	0.00	15.35	1129.40
79	79	98.83	0.00	15.35	1129.40
79	80	100.40	0.00	30.86	1093.01
80	80	100.40	0.00	30.86	1093.01
80	81	101.98	0.00	46.38	1032.15
81	81	101.98	0.00	46.38	1032.15
81	82	103.55	0.00	61.92	946.85
82	82	103.55	1.09	61.89	946.85
82	83	105.13	1.35	77.42	837.11
83	83	105.13	1.35	77.42	837.11
83	84	106.70	1.65	92.96	702.91
84	84	106:70	0.04	92.98	702.91
84	85	108.28	0.04	108.50	544.26
85	85	108.28	0.04	108.50	544.26
85	86	109.85	0.04	117.68	366.14
86	86	109.85	0.00	117.68	366.14
86	87	111.43	0.00	126.87	173.57
87	87	111.43	0.00	126.87	173.57
87	88	112.00	0.00	130.22	99.63
88	88	112.00	0.00	130.22	99.63
88	89	113.00	0.00	143.39	-37.14
89	1089	113.00	0.00	-105.69	-45.40
89	90	114.00	0.00	-95.93	55.41
90	90	114.00	0.00	-95.93	55.41
90	91	114.58	0.00	-93.45	109.85
91	91	114.58	0.00	-93.45	109.85
91	92	116.15	0.00	-86.64	251.66
92	92	116.15	0.13	-86.65	251.66
92	93	117.73	0.13	-79.85	382.78
93	93	117.73	0.13	-79.85	382.78
93	94	119.30	0.13	-68.35	499.47
94	94	119.30	1.22	-68.33	499.47
94	95	120.88	1.00	-56.82	598.03
95	95	120.88	1.00	-56.82	598.03
95	96	122.45	0.81	-45.32	678.51
96	96	122.45	0.00	-45.34	678.51
96	97	124.03	0.00	-33.83	740.86
97	97	124.03	0.00	-33.83	740.86
97	98	125.60	0.00	-22.33	785.09
98	98	125.60	0.00	-22.33	785.09
98	99	127.18	0.00	-10.84	811.23
99	99	127.18	0.00	-10.84	811.23
99	100	128.75	0.00	0.66	819.25
100	100	128.75	0.00	0.66	819.25
100	101	130.33	0.00	16.19	1112.26
101	101	130.33	0.00	16.19	1112.26
101	102	131.90	0.00	31.70	1074.52
102	102	131.90	0.00	31.70	1074.52
102	103	133.48	0.00	47.22	1012.36

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Programa DINTEL IDEAM S.A.
Rotura.T0.F4.VY+
27/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.F4.VY+

Rotura.S SIMPLE.VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	47.22	1012.36
103	104	135.05	0.00	62.76	925.76
104	104	135.05	1.09	62.73	925.76
104	105	136.63	1.35	78.26	814.69
105	105	136.63	1.35	78.26	814.69
105	106	138.20	1.65	93.80	679.17
106	106	138.20	-0.13	93.80	679.17
106	107	139.78	-0.13	109.32	519.21
107	107	139.78	-0.13	109.32	519.21
107	108	141.35	-0.13	118.50	339.78
108	108	141.35	0.00	118.52	339.78
108	109	142.93	0.00	127.71	145.89
109	109	142.93	0.00	127.71	145.89
109	110	143.50	0.00	131.06	71.47
110	110	143.50	0.00	131.06	71.47
110	111	144.50	0.00	144.23	-66.14
111	1111	144.50	0.00	-83.84	-54.12
111	112	145.50	0.00	-74.08	24.86
112	112	145.50	0.00	-74.08	24.86
112	113	145.68	0.00	-73.32	37.74
113	113	145.68	0.00	-73.32	37.74
113	114	146.85	0.00	-68.25	120.92
114	114	146.85	-0.59	-68.17	120.92
114	115	148.03	-0.59	-63.10	198.12
115	115	148.03	-0.59	-63.10	198.12
115	116	149.20	-0.59	-54.51	267.32
116	116	149.20	1.21	-54.58	267.32
116	117	150.38	1.00	-46.00	326.42
117	117	150.38	1.00	-46.00	326.42
117	118	151.55	0.80	-37.42	375.44
118	118	151.55	0.00	-37.43	375.44
118	119	152.73	0.00	-28.85	414.39
119	119	152.73	0.00	-28.85	414.39
119	120	153.90	0.00	-20.27	443.25
120	120	153.90	0.00	-20.27	443.25
120	121	155.08	0.00	-11.69	462.03
121	121	155.08	0.00	-11.69	462.03
121	122	156.25	0.00	-3.12	470.73
122	122	156.25	0.00	-3.12	470.73
122	123	157.43	0.00	8.19	642.14
123	123	157.43	0.00	8.19	642.14
123	124	158.60	0.00	19.76	625.73
124	124	158.60	0.00	19.76	625.73
124	125	159.78	0.00	31.34	595.71
125	125	159.78	0.00	31.34	595.71
125	126	160.95	0.00	42.92	552.07
126	126	160.95	0.00	42.92	552.07
126	127	162.13	0.00	54.50	494.84
127	127	162.13	0.00	54.50	494.84
127	128	163.30	0.00	66.09	423.98
128	128	163.30	0.00	66.09	423.98

Programa DINTEL IDEAM S.A.
Rotura.T0.F4.VY+

27/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.F4.VY+

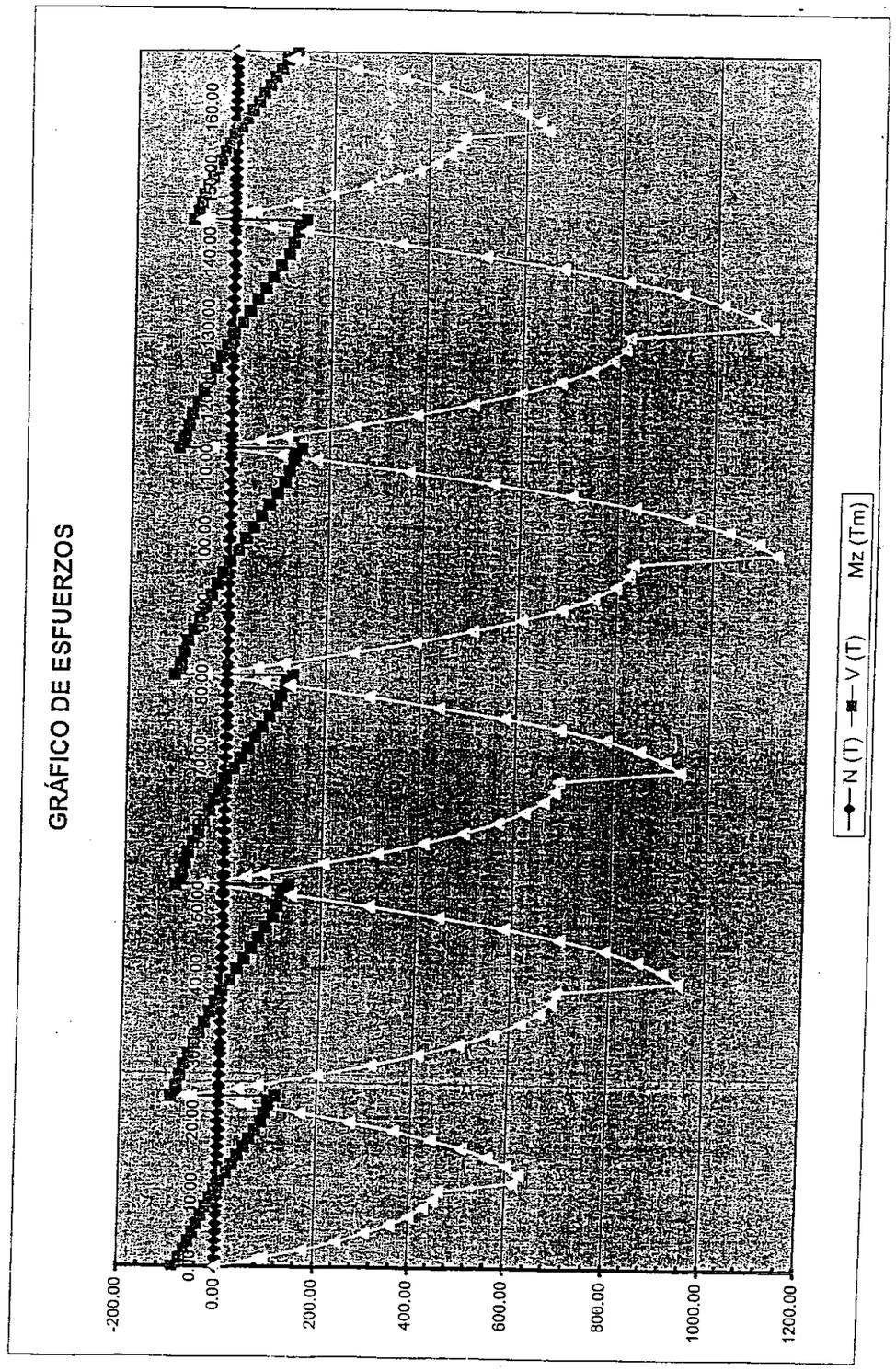
Rotura.S SIMPLE.VY+. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	77.66	339.55
129	129	164.48	0.00	77.66	339.55
129	130	165.65	0.00	89.25	241.48
130	130	165.65	0.00	89.25	241.48
130	131	166.83	0.00	100.84	129.82
131	131	166.83	0.00	100.84	129.82
131	132	167.00	0.00	102.55	112.00
132	132	167.00	0.00	102.55	112.00
132	133	168.00	0.00	121.48	0.00

27/09/01



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CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.F4.VY-

Rotura.S SIMPLE.VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-121.38	0.00
1	2	1.00	0.00	-102.45	111.93
2	2	1.00	0.00	-102.45	111.93
2	3	1.18	0.00	-100.74	129.70
3	3	1.18	0.00	-100.74	129.70
3	4	2.35	0.00	-89.15	241.25
4	4	2.35	0.00	-89.15	241.25
4	5	3.53	0.00	-77.56	339.20
5	5	3.53	0.00	-77.56	339.20
5	6	4.70	0.00	-65.99	423.51
6	6	4.70	0.00	-65.99	423.51
6	7	5.88	0.00	-54.41	494.26
7	7	5.88	0.00	-54.41	494.26
7	8	7.05	0.00	-42.82	551.37
8	8	7.05	0.00	-42.82	551.37
8	9	8.23	0.00	-31.24	594.89
9	9	8.23	0.00	-31.24	594.89
9	10	9.40	0.00	-19.66	624.80
10	10	9.40	0.00	-19.66	624.80
10	11	10.58	0.00	-8.09	641.09
11	11	10.58	0.00	-8.09	641.09
11	12	11.75	0.00	3.22	469.56
12	12	11.75	0.00	3.22	469.56
12	13	12.93	0.00	11.79	460.74
13	13	12.93	0.00	11.79	460.74
13	14	14.10	0.00	20.37	441.84
14	14	14.10	0.00	20.37	441.84
14	15	15.28	0.00	28.95	412.87
15	15	15.28	0.00	28.95	412.87
15	16	16.45	0.00	37.53	373.80
16	16	16.45	0.80	37.52	373.80
16	17	17.63	1.00	46.10	324.67
17	17	17.63	1.00	46.10	324.67
17	18	18.80	1.21	54.68	265.45
18	18	18.80	-0.62	54.61	265.45
18	19	19.98	-0.62	63.20	196.13
19	19	19.98	-0.62	63.20	196.13
19	20	21.15	-0.62	68.27	118.82
20	20	21.15	0.00	68.35	118.82
20	21	22.33	0.00	73.42	35.52
21	21	22.33	0.00	73.42	35.52
21	22	22.50	0.00	74.18	22.61
22	22	22.50	0.00	74.18	22.61
22	23	23.50	0.00	83.94	-56.46
23	1023	23.50	0.00	-133.40	-69.00
23	24	24.50	0.00	-120.22	57.81
24	24	24.50	0.00	-120.22	57.81
24	25	24.95	0.00	-117.60	111.32
25	25	24.95	0.00	-117.60	111.32
25	26	26.40	0.00	-109.15	275.69
26	26	26.40	-0.13	-109.13	275.69

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.F4.VY-

Rotura.S SIMPLE.VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.13	-100.66	427.80
27	27	27.85	-0.13	-100.66	427.80
27	28	29.30	-0.13	-86.38	563.43
28	28	29.30	1.65	-86.39	563.43
28	29	30.75	1.35	-72.09	678.34
29	29	30.75	1.35	-72.09	678.34
29	30	32.20	1.09	-57.80	772.52
30	30	32.20	0.00	-57.81	772.52
30	31	33.65	0.00	-43.51	845.98
31	31	33.65	0.00	-43.51	845.98
31	32	35.10	0.00	-29.23	898.70
32	32	35.10	0.00	-29.23	898.70
32	33	36.55	0.00	-14.92	930.70
33	33	36.55	0.00	-14.92	930.70
33	34	38.00	0.00	-0.64	682.28
34	34	38.00	0.00	-0.64	682.28
34	35	39.45	0.00	9.94	675.52
35	35	39.45	0.00	9.94	675.52
35	36	40.90	0.00	20.54	653.41
36	36	40.90	0.00	20.54	653.41
36	37	42.35	0.00	31.12	615.96
37	37	42.35	0.00	31.12	615.96
37	38	43.80	0.00	41.71	563.15
38	38	43.80	0.81	41.70	563.15
38	39	45.25	1.00	52.29	494.99
39	39	45.25	1.00	52.29	494.99
39	40	46.70	1.22	62.88	411.49
40	40	46.70	0.13	62.91	411.49
40	41	48.15	0.13	73.49	312.62
41	41	48.15	0.13	73.49	312.62
41	42	49.60	0.13	79.76	201.55
42	42	49.60	0.00	79.74	201.55
42	43	51.05	0.00	86.00	81.40
43	43	51.05	0.00	86.00	81.40
43	44	51.50	0.00	87.94	42.26
44	44	51.50	0.00	87.94	42.26
44	45	52.50	0.00	97.70	-50.57
45	1045	52.50	0.00	-132.71	-41.37
45	46	53.50	0.00	-119.54	84.75
46	46	53.50	0.00	-119.54	84.75
46	47	53.95	0.00	-116.92	137.97
47	47	53.95	0.00	-116.92	137.97
47	48	55.40	0.00	-108.47	301.34
48	48	55.40	0.01	-108.47	301.34
48	49	56.85	0.01	-100.00	452.46
49	49	56.85	0.01	-100.00	452.46
49	50	58.30	0.01	-85.71	587.12
50	50	58.30	1.65	-85.71	587.12
50	51	59.75	1.35	-71.41	701.03
51	51	59.75	1.35	-71.41	701.03
51	52	61.20	1.09	-57.11	794.22

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.F4.VY-
Rotura.S SIMPLE.VY-. T0
[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	-57.13	794.22
52	53	62.65	0.00	-42.83	866.69
53	53	62.65	0.00	-42.83	866.69
53	54	64.10	0.00	-28.55	918.43
54	54	64.10	0.00	-28.55	918.43
54	55	65.55	0.00	-14.24	949.46
55	55	65.55	0.00	-14.24	949.46
55	56	67.00	0.00	0.05	700.03
56	56	67.00	0.00	0.05	700.03
56	57	68.45	0.00	10.63	692.29
57	57	68.45	0.00	10.63	692.29
57	58	69.90	0.00	21.23	669.19
58	58	69.90	0.00	21.23	669.19
58	59	71.35	0.00	31.81	630.76
59	59	71.35	0.00	31.81	630.76
59	60	72.80	0.00	42.40	576.96
60	60	72.80	0.81	42.39	576.96
60	61	74.25	1.00	52.98	507.82
61	61	74.25	1.00	52.98	507.82
61	62	75.70	1.22	63.57	423.32
62	62	75.70	-0.01	63.58	423.32
62	63	77.15	-0.01	74.16	323.47
63	63	77.15	-0.01	74.16	323.47
63	64	78.60	-0.01	80.43	211.41
64	64	78.60	0.00	80.43	211.41
64	65	80.05	0.00	86.69	90.28
65	65	80.05	0.00	86.69	90.28
65	66	80.50	0.00	88.63	50.83
66	66	80.50	0.00	88.63	50.83
66	67	81.50	0.00	98.38	-42.68
67	1067	81.50	0.00	-143.79	-52.16
67	68	82.50	0.00	-130.62	85.03
68	68	82.50	0.00	-130.62	85.03
68	69	83.08	0.00	-127.27	159.17
69	69	83.08	0.00	-127.27	159.17
69	70	84.65	0.00	-118.08	352.35
70	70	84.65	-0.04	-118.06	352.35
70	71	86.23	-0.04	-108.88	531.09
71	71	86.23	-0.04	-108.88	531.09
71	72	87.80	-0.04	-93.36	690.35
72	72	87.80	1.65	-93.36	690.35
72	73	89.38	1.35	-77.82	825.17
73	73	89.38	1.35	-77.82	825.17
73	74	90.95	1.09	-62.29	935.52
74	74	90.95	0.00	-62.32	935.52
74	75	92.53	0.00	-46.78	1021.44
75	75	92.53	0.00	-46.78	1021.44
75	76	94.10	0.00	-31.26	1082.91
76	76	94.10	0.00	-31.26	1082.91
76	77	95.68	0.00	-15.75	1119.92
77	77	95.68	0.00	-15.75	1119.92

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Rotura.T0.F4.VY-
Rotura.S SIMPLE.VY-. T0
[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To
Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	-0.22	826.22
78	78	97.25	0.00	-0.22	826.22
78	79	98.83	0.00	11.28	817.51
79	79	98.83	0.00	11.28	817.51
79	80	100.40	0.00	22.77	790.69
80	80	100.40	0.00	22.77	790.69
80	81	101.98	0.00	34.27	745.74
81	81	101.98	0.00	34.27	745.74
81	82	103.55	0.00	45.78	682.69
82	82	103.55	0.81	45.76	682.69
82	83	105.13	1.00	57.26	601.53
83	83	105.13	1.00	57.26	601.53
83	84	106.70	1.22	68.77	502.26
84	84	106.70	0.04	68.79	502.26
84	85	108.28	0.04	80.29	384.87
85	85	108.28	0.04	80.29	384.87
85	86	109.85	0.04	87.09	253.06
86	86	109.85	0.00	87.08	253.06
86	87	111.43	0.00	93.89	110.55
87	87	111.43	0.00	93.89	110.55
87	88	112.00	0.00	96.37	55.83
88	88	112.00	0.00	96.37	55.83
88	89	113.00	0.00	106.13	-45.40
89	1089	113.00	0.00	-143.03	-37.14
89	90	114.00	0.00	-129.86	99.30
90	90	114.00	0.00	-129.86	99.30
90	91	114.58	0.00	-126.51	172.99
91	91	114.58	0.00	-126.51	172.99
91	92	116.15	0.00	-117.32	365.00
92	92	116.15	0.11	-117.32	365.00
92	93	117.73	0.11	-108.14	542.55
93	93	117.73	0.11	-108.14	542.55
93	94	119.30	0.11	-92.62	700.63
94	94	119.30	1.65	-92.60	700.63
94	95	120.88	1.35	-77.06	834.25
95	95	120.88	1.35	-77.06	834.25
95	96	122.45	1.09	-61.53	943.44
96	96	122.45	0.00	-61.56	943.44
96	97	124.03	0.00	-46.02	1028.17
97	97	124.03	0.00	-46.02	1028.17
97	98	125.60	0.00	-30.50	1088.43
98	98	125.60	0.00	-30.50	1088.43
98	99	127.18	0.00	-14.99	1124.28
99	99	127.18	0.00	-14.99	1124.28
99	100	128.75	0.00	0.54	829.39
100	100	128.75	0.00	0.54	829.39
100	101	130.33	0.00	12.04	819.49
101	101	130.33	0.00	12.04	819.49
101	102	131.90	0.00	23.53	791.46
102	102	131.90	0.00	23.53	791.46
102	103	133.48	0.00	35.03	745.33

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Rotura.T0.F4.VY-

Rotura.S SIMPLE.VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1.35]HBCV + [.9; 1.1]fase4.HIP.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	35.03	745.33
103	104	135.05	0.00	46.54	681.11
104	104	135.05	0.81	46.52	681.11
104	105	136.63	1.00	58.02	598.75
105	105	136.63	1.00	58.02	598.75
105	106	138.20	1.22	69.53	498.29
106	106	138.20	-0.11	69.53	498.29
106	107	139.78	-0.11	81.03	379.72
107	107	139.78	-0.11	81.03	379.72
107	108	141.35	-0.11	87.83	246.72
108	108	141.35	0.00	87.84	246.72
108	109	142.93	0.00	94.65	103.03
109	109	142.93	0.00	94.65	103.03
109	110	143.50	0.00	97.13	47.87
110	110	143.50	0.00	97.13	47.87
110	111	144.50	0.00	106.89	-54.12
111	1111	144.50	0.00	-112.90	-66.14
111	112	145.50	0.00	-99.72	40.18
112	112	145.50	0.00	-99.72	40.18
112	113	145.68	0.00	-98.69	57.52
113	113	145.68	0.00	-98.69	57.52
113	114	146.85	0.00	-91.85	169.47
114	114	146.85	-0.73	-91.75	169.47
114	115	148.03	-0.73	-84.91	273.34
115	115	148.03	-0.73	-84.91	273.34
115	116	149.20	-0.73	-73.31	366.41
116	116	149.20	1.64	-73.39	366.41
116	117	150.38	1.36	-61.81	445.85
117	117	150.38	1.36	-61.81	445.85
117	118	151.55	1.09	-50.23	511.68
118	118	151.55	0.00	-50.24	511.68
118	119	152.73	0.00	-38.66	563.92
119	119	152.73	0.00	-38.66	563.92
119	120	153.90	0.00	-27.08	602.53
120	120	153.90	0.00	-27.08	602.53
120	121	155.08	0.00	-15.49	627.54
121	121	155.08	0.00	-15.49	627.54
121	122	156.25	0.00	-3.92	615.45
122	122	156.25	0.00	-3.92	615.45
122	123	157.43	0.00	4.95	463.93
123	123	157.43	0.00	4.95	463.93
123	124	158.60	0.00	13.52	453.09
124	124	158.60	0.00	13.52	453.09
124	125	159.78	0.00	22.10	432.15
125	125	159.78	0.00	22.10	432.15
125	126	160.95	0.00	30.68	401.13
126	126	160.95	0.00	30.68	401.13
126	127	162.13	0.00	39.26	360.04
127	127	162.13	0.00	39.26	360.04
127	128	163.30	0.00	47.84	308.85
128	128	163.30	0.00	47.84	308.85

CÁLCULO TENSIONAL

Hipótesis de cálculo:

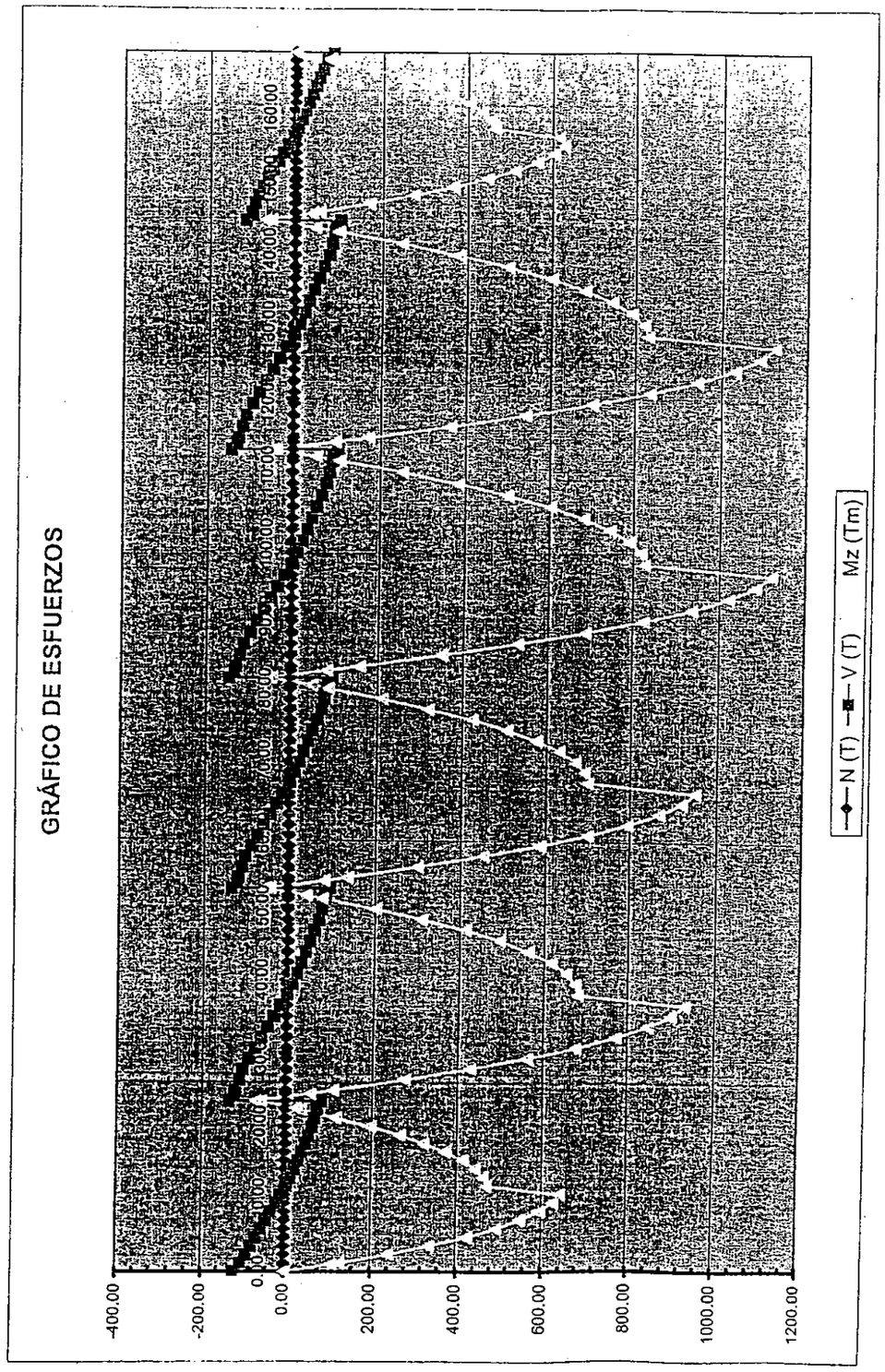
Rotura.T0.F4.VY-

Rotura.S SIMPLE.VY-. T0

[1; 1.35]Pvigas + [1; 1.35]Prelosas + [1; 1 35]HBCV + [.9; 1.1]fase4.HIP.To

Coef. exc:

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	56.41	247.61
129	129	164.48	0.00	56.41	247.61
129	130	165.65	0.00	65.00	176.27
130	130	165.65	0.00	65.00	176.27
130	131	166.83	0.00	73.58	94.86
131	131	166.83	0.00	73.58	94.86
131	132	167.00	0.00	74.85	81.85
132	132	167.00	0.00	74.85	81.85
132	133	168.00	0.00	88.87	0.00



CÁLCULO TENSIONAL

Hipótesis de cálculo:

Envolvente cortante sección simple

Envolvente cortante sección simple

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	121.38	0.00
1	2	1.00	0.00	102.45	0.00
2	2	1.00	0.00	102.45	0.00
2	3	1.18	0.00	100.74	0.00
3	3	1.18	0.00	100.74	0.00
3	4	2.35	0.00	89.15	0.00
4	4	2.35	0.00	89.15	0.00
4	5	3.53	0.00	77.56	0.00
5	5	3.53	0.00	77.56	0.00
5	6	4.70	0.00	65.99	0.00
6	6	4.70	0.00	65.99	0.00
6	7	5.88	0.00	54.41	0.00
7	7	5.88	0.00	54.41	0.00
7	8	7.05	0.00	42.82	0.00
8	8	7.05	0.00	42.82	0.00
8	9	8.23	0.00	31.24	0.00
9	9	8.23	0.00	31.24	0.00
9	10	9.40	0.00	19.66	0.00
10	10	9.40	0.00	19.66	0.00
10	11	10.58	0.00	8.09	0.00
11	11	10.58	0.00	8.09	0.00
11	12	11.75	0.00	4.04	0.00
12	12	11.75	0.00	4.04	0.00
12	13	12.93	0.00	15.61	0.00
13	13	12.93	0.00	15.61	0.00
13	14	14.10	0.00	27.20	0.00
14	14	14.10	0.00	27.20	0.00
14	15	15.28	0.00	38.78	0.00
15	15	15.28	0.00	38.78	0.00
15	16	16.45	0.00	50.36	0.00
16	16	16.45	0.80	50.35	0.00
16	17	17.63	1.00	61.93	0.00
17	17	17.63	1.00	61.93	0.00
17	18	18.80	1.21	73.52	0.00
18	18	18.80	-0.62	73.43	0.00
18	19	19.98	-0.62	85.03	0.00
19	19	19.98	-0.62	85.03	0.00
19	20	21.15	-0.62	91.87	0.00
20	20	21.15	0.00	91.97	0.00
20	21	22.33	0.00	98.81	0.00
21	21	22.33	0.00	98.81	0.00
21	22	22.50	0.00	99.84	0.00
22	22	22.50	0.00	99.84	0.00
22	23	23.50	0.00	113.02	0.00
23	1023	23.50	0.00	133.40	0.00
23	24	24.50	0.00	120.22	0.00
24	24	24.50	0.00	120.22	0.00
24	25	24.95	0.00	117.60	0.00
25	25	24.95	0.00	117.60	0.00
25	26	26.40	0.00	109.15	0.00
26	26	26.40	-0.13	109.13	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Envolvente cortante sección simple
Envolvente cortante sección simple

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
26	27	27.85	-0.13	100.66	0.00
27	27	27.85	-0.13	100.66	0.00
27	28	29.30	-0.13	86.38	0.00
28	28	29.30	1.65	86.39	0.00
28	29	30.75	1.35	72.09	0.00
29	29	30.75	1.35	72.09	0.00
29	30	32.20	1.09	57.80	0.00
30	30	32.20	0.00	57.81	0.00
30	31	33.65	0.00	43.51	0.00
31	31	33.65	0.00	43.51	0.00
31	32	35.10	0.00	29.23	0.00
32	32	35.10	0.00	29.23	0.00
32	33	36.55	0.00	14.92	0.00
33	33	36.55	0.00	14.92	0.00
33	34	38.00	0.00	0.64	0.00
34	34	38.00	0.00	0.64	0.00
34	35	39.45	0.00	13.76	0.00
35	35	39.45	0.00	13.76	0.00
35	36	40.90	0.00	28.07	0.00
36	36	40.90	0.00	28.07	0.00
36	37	42.35	0.00	42.35	0.00
37	37	42.35	0.00	42.35	0.00
37	38	43.80	0.00	56.65	0.00
38	38	43.80	0.81	56.64	0.00
38	39	45.25	1.00	70.93	0.00
39	39	45.25	1.00	70.93	0.00
39	40	46.70	1.22	85.23	0.00
40	40	46.70	0.13	85.26	0.00
40	41	48.15	0.13	99.54	0.00
41	41	48.15	0.13	99.54	0.00
41	42	49.60	0.13	108.01	0.00
42	42	49.60	0.00	107.99	0.00
42	43	51.05	0.00	116.44	0.00
43	43	51.05	0.00	116.44	0.00
43	44	51.50	0.00	119.06	0.00
44	44	51.50	0.00	119.06	0.00
44	45	52.50	0.00	132.24	0.00
45	1045	52.50	0.00	132.71	0.00
45	46	53.50	0.00	119.54	0.00
46	46	53.50	0.00	119.54	0.00
46	47	53.95	0.00	116.92	0.00
47	47	53.95	0.00	116.92	0.00
47	48	55.40	0.00	108.47	0.00
48	48	55.40	0.01	108.47	0.00
48	49	56.85	0.01	100.00	0.00
49	49	56.85	0.01	100.00	0.00
49	50	58.30	0.01	85.71	0.00
50	50	58.30	1.65	85.71	0.00
50	51	59.75	1.35	71.41	0.00
51	51	59.75	1.35	71.41	0.00
51	52	61.20	1.09	57.11	0.00

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CÁLCULO TENSIONAL

Hipótesis de cálculo:
Envolvente cortante sección simple
Envolvente cortante sección simple

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
52	52	61.20	0.00	57.13	0.00
52	53	62.65	0.00	42.83	0.00
53	53	62.65	0.00	42.83	0.00
53	54	64.10	0.00	28.55	0.00
54	54	64.10	0.00	28.55	0.00
54	55	65.55	0.00	14.24	0.00
55	55	65.55	0.00	14.24	0.00
55	56	67.00	0.00	0.06	0.00
56	56	67.00	0.00	0.06	0.00
56	57	68.45	0.00	14.34	0.00
57	57	68.45	0.00	14.34	0.00
57	58	69.90	0.00	28.65	0.00
58	58	69.90	0.00	28.65	0.00
58	59	71.35	0.00	42.93	0.00
59	59	71.35	0.00	42.93	0.00
59	60	72.80	0.00	57.23	0.00
60	60	72.80	0.81	57.21	0.00
60	61	74.25	1.00	71.51	0.00
61	61	74.25	1.00	71.51	0.00
61	62	75.70	1.22	85.81	0.00
62	62	75.70	-0.01	85.82	0.00
62	63	77.15	-0.01	100.10	0.00
63	63	77.15	-0.01	100.10	0.00
63	64	78.60	-0.01	108.57	0.00
64	64	78.60	0.00	108.57	0.00
64	65	80.05	0.00	117.02	0.00
65	65	80.05	0.00	117.02	0.00
65	66	80.50	0.00	119.64	0.00
66	66	80.50	0.00	119.64	0.00
66	67	81.50	0.00	132.81	0.00
67	1067	81.50	0.00	143.79	0.00
67	68	82.50	0.00	130.62	0.00
68	68	82.50	0.00	130.62	0.00
68	69	83.08	0.00	127.27	0.00
69	69	83.08	0.00	127.27	0.00
69	70	84.65	0.00	118.08	0.00
70	70	84.65	-0.04	118.06	0.00
70	71	86.23	-0.04	108.88	0.00
71	71	86.23	-0.04	108.88	0.00
71	72	87.80	-0.04	93.36	0.00
72	72	87.80	1.65	93.36	0.00
72	73	89.38	1.35	77.82	0.00
73	73	89.38	1.35	77.82	0.00
73	74	90.95	1.09	62.29	0.00
74	74	90.95	0.00	62.32	0.00
74	75	92.53	0.00	46.78	0.00
75	75	92.53	0.00	46.78	0.00
75	76	94.10	0.00	31.26	0.00
76	76	94.10	0.00	31.26	0.00
76	77	95.68	0.00	15.75	0.00
77	77	95.68	0.00	15.75	0.00

CÁLCULO TENSIONAL

Hipótesis de cálculo:

Envolvente cortante sección simple

Envolvente cortante sección simple

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
77	78	97.25	0.00	0.22	0.00
78	78	97.25	0.00	0.22	0.00
78	79	98.83	0.00	15.35	0.00
79	79	98.83	0.00	15.35	0.00
79	80	100.40	0.00	30.86	0.00
80	80	100.40	0.00	30.86	0.00
80	81	101.98	0.00	46.38	0.00
81	81	101.98	0.00	46.38	0.00
81	82	103.55	0.00	61.92	0.00
82	82	103.55	0.81	61.89	0.00
82	83	105.13	1.00	77.42	0.00
83	83	105.13	1.00	77.42	0.00
83	84	106.70	1.22	92.96	0.00
84	84	106.70	0.04	92.98	0.00
84	85	108.28	0.04	108.50	0.00
85	85	108.28	0.04	108.50	0.00
85	86	109.85	0.04	117.68	0.00
86	86	109.85	0.00	117.68	0.00
86	87	111.43	0.00	126.87	0.00
87	87	111.43	0.00	126.87	0.00
87	88	112.00	0.00	130.22	0.00
88	88	112.00	0.00	130.22	0.00
88	89	113.00	0.00	143.39	0.00
89	1089	113.00	0.00	143.03	0.00
89	90	114.00	0.00	129.86	0.00
90	90	114.00	0.00	129.86	0.00
90	91	114.58	0.00	126.51	0.00
91	91	114.58	0.00	126.51	0.00
91	92	116.15	0.00	117.32	0.00
92	92	116.15	0.11	117.32	0.00
92	93	117.73	0.11	108.14	0.00
93	93	117.73	0.11	108.14	0.00
93	94	119.30	0.11	92.62	0.00
94	94	119.30	1.65	92.60	0.00
94	95	120.88	1.35	77.06	0.00
95	95	120.88	1.35	77.06	0.00
95	96	122.45	1.09	61.53	0.00
96	96	122.45	0.00	61.56	0.00
96	97	124.03	0.00	46.02	0.00
97	97	124.03	0.00	46.02	0.00
97	98	125.60	0.00	30.50	0.00
98	98	125.60	0.00	30.50	0.00
98	99	127.18	0.00	14.99	0.00
99	99	127.18	0.00	14.99	0.00
99	100	128.75	0.00	0.66	0.00
100	100	128.75	0.00	0.66	0.00
100	101	130.33	0.00	16.19	0.00
101	101	130.33	0.00	16.19	0.00
101	102	131.90	0.00	31.70	0.00
102	102	131.90	0.00	31.70	0.00
102	103	133.48	0.00	47.22	0.00

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CÁLCULO TENSIONAL

Hipótesis de cálculo:

Envolvente cortante sección simple

Envolvente cortante sección simple

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
103	103	133.48	0.00	47.22	0.00
103	104	135.05	0.00	62.76	0.00
104	104	135.05	0.81	62.73	0.00
104	105	136.63	1.00	78.26	0.00
105	105	136.63	1.00	78.26	0.00
105	106	138.20	1.22	93.80	0.00
106	106	138.20	-0.11	93.80	0.00
106	107	139.78	-0.11	109.32	0.00
107	107	139.78	-0.11	109.32	0.00
107	108	141.35	-0.11	118.50	0.00
108	108	141.35	0.00	118.52	0.00
108	109	142.93	0.00	127.71	0.00
109	109	142.93	0.00	127.71	0.00
109	110	143.50	0.00	131.06	0.00
110	110	143.50	0.00	131.06	0.00
110	111	144.50	0.00	144.23	0.00
111	1111	144.50	0.00	112.90	0.00
111	112	145.50	0.00	99.72	0.00
112	112	145.50	0.00	99.72	0.00
112	113	145.68	0.00	98.69	0.00
113	113	145.68	0.00	98.69	0.00
113	114	146.85	0.00	91.85	0.00
114	114	146.85	-0.73	91.75	0.00
114	115	148.03	-0.73	84.91	0.00
115	115	148.03	-0.73	84.91	0.00
115	116	149.20	-0.73	73.31	0.00
116	116	149.20	1.64	73.39	0.00
116	117	150.38	1.36	61.81	0.00
117	117	150.38	1.36	61.81	0.00
117	118	151.55	1.09	50.23	0.00
118	118	151.55	0.00	50.24	0.00
118	119	152.73	0.00	38.66	0.00
119	119	152.73	0.00	38.66	0.00
119	120	153.90	0.00	27.08	0.00
120	120	153.90	0.00	27.08	0.00
120	121	155.08	0.00	15.49	0.00
121	121	155.08	0.00	15.49	0.00
121	122	156.25	0.00	3.92	0.00
122	122	156.25	0.00	3.92	0.00
122	123	157.43	0.00	8.19	0.00
123	123	157.43	0.00	8.19	0.00
123	124	158.60	0.00	19.76	0.00
124	124	158.60	0.00	19.76	0.00
124	125	159.78	0.00	31.34	0.00
125	125	159.78	0.00	31.34	0.00
125	126	160.95	0.00	42.92	0.00
126	126	160.95	0.00	42.92	0.00
126	127	162.13	0.00	54.50	0.00
127	127	162.13	0.00	54.50	0.00
127	128	163.30	0.00	66.09	0.00
128	128	163.30	0.00	66.09	0.00

Programa DINTEL IDEAM S.A.
Envolvente cortante sección simple

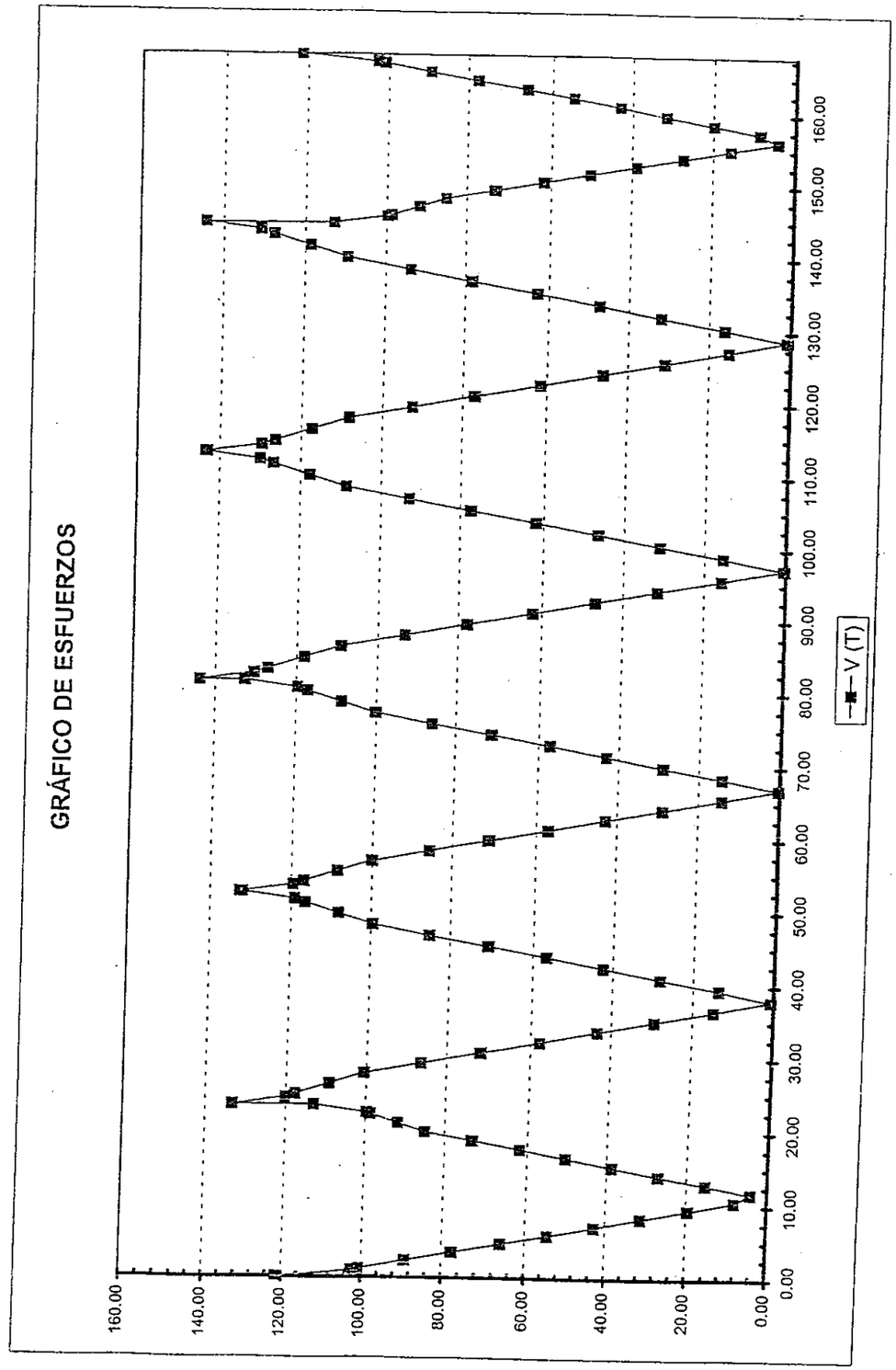
27/09/01

CÁLCULO TENSIONAL

Hipótesis de cálculo:
Envolvente cortante sección simple
Envolvente cortante sección simple

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
128	129	164.48	0.00	77.66	0.00
129	129	164.48	0.00	77.66	0.00
129	130	165.65	0.00	89.25	0.00
130	130	165.65	0.00	89.25	0.00
130	131	166.83	0.00	100.84	0.00
131	131	166.83	0.00	100.84	0.00
131	132	167.00	0.00	102.55	0.00
132	132	167.00	0.00	102.55	0.00
132	133	168.00	0.00	121.48	0.00

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Programa DINTEL IDEAM S.A.
Envolvente cortante sección simple

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Subanejo 10

REACCIONES DE LOS ESTADOS INDIVIDUALES DE CARGA

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
Pvigas

Peso propio vigas

[1; 1]Pvigas

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	46.02	0.00
23	0.00	98.78	0.00
45	0.00	107.95	0.00
67	0.00	112.14	0.00
89	0.00	116.32	0.00
111	0.00	102.96	0.00
133	0.00	46.02	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

Prelosas

Peso propio prelosas

[1; 1]Prelosas

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	11.42	0.00
23	0.00	25.52	0.00
45	0.00	28.19	0.00
67	0.00	29.40	0.00
89	0.00	30.62	0.00
111	0.00	26.73	0.00
133	0.00	11.42	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

HBCV

Hormigonado BC vanos

[1; 1]HBCV

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	34.25	0.00
23	0.00	55.59	0.00
45	0.00	60.54	0.00
67	0.00	63.15	0.00
89	0.00	65.76	0.00
111	0.00	58.19	0.00
133	0.00	34.25	0.00

HBCP

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

HBCP

Hormigonado BC Pilas

[1; 1]HBCP

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	-0.02	0.00
23	0.00	23.57	0.00
45	0.00	26.25	0.00
67	0.00	27.18	0.00
89	0.00	28.72	0.00
111	0.00	24.70	0.00
133	0.00	-0.12	0.00

HVOL

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

HVOL

Hormigonado voladizos

[1; 1]HVOL

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	8.27	0.00
23	0.00	27.73	0.00
45	0.00	27.13	0.00
67	0.00	28.57	0.00
89	0.00	30.40	0.00
111	0.00	28.80	0.00
133	0.00	8.03	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
IPF75B.FY+ SC 1 + SC 9 + TREN 30

Envolvente IPF75B.Fy+

[1; 1]SC1.ENV_TREN_GENERICO.FY+ + [1; 1]SC9.ENV_TREN_GENERICO.FY+ + [1

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	131.27	0.00
23	0.00	355.84	0.00
45	0.00	373.38	0.00
67	0.00	388.24	0.00
89	0.00	397.13	0.00
111	0.00	369.15	0.00
133	0.00	132.38	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
IPF75B.FY-

Envolvente IPF75B.Fy-

[1; 1]SC1.ENV_TREN_GENERICO.FY- + [1; 1]SC9.ENV_TREN_GENERICO.FY- + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	-20.81	0.00
23	0.00	-24.34	0.00
45	0.00	-41.77	0.00
67	0.00	-41.68	0.00
89	0.00	-31.85	0.00
111	0.00	-25.09	0.00
133	0.00	-24.24	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
CMBAL

Carga Muerta Balasto

[1; 1]CMBAL

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	40.10	0.00
23	0.00	126.01	0.00
45	0.00	126.06	0.00
67	0.00	132.05	0.00
89	0.00	139.76	0.00
111	0.00	131.21	0.00
133	0.00	39.30	0.00

CMRESTO

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

CMRESTO

Resto Carga Muerta

[1; 1]CMRESTO

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	27.86	0.00
23	0.00	87.55	0.00
45	0.00	87.58	0.00
67	0.00	91.75	0.00
89	0.00	97.10	0.00
111	0.00	91.16	0.00
133	0.00	27.31	0.00

GRAD

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

GRAD

Gradiente termico

[1; 1]GRAD

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	9.19	0.00
23	0.00	-10.79	0.00
45	0.00	1.79	0.00
67	0.00	-0.64	0.00
89	0.00	1.93	0.00
111	0.00	-10.28	0.00
133	0.00	8.81	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.FY+

Envolvente de tren de cargas plano genérico. FY+

[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0; 1]SC1.SCur

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	10.96	0.00
23	0.00	30.91	0.00
45	0.00	32.61	0.00
67	0.00	34.02	0.00
89	0.00	34.87	0.00
111	0.00	32.16	0.00
133	0.00	11.06	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.FY-

Envolvente de tren de cargas plano genérico. FY-

[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0; 1]SC1.SCur

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	-1.79	0.00
23	0.00	-2.09	0.00
45	0.00	-3.77	0.00
67	0.00	-3.82	0.00
89	0.00	-2.90	0.00
111	0.00	-2.14	0.00
133	0.00	-2.07	0.00

Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.FY+

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.FY+

Envolvente de tren de cargas plano genérico. FY+

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0; 1]SC9.SCur

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	98.65	0.00
23	0.00	278.21	0.00
45	0.00	293.46	0.00
67	0.00	306.18	0.00
89	0.00	313.83	0.00
111	0.00	289.41	0.00
133	0.00	99.56	0.00

Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.FY-

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.FY-

Envolvente de tren de cargas plano genérico. FY-

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0; 1]SC9.SCur

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	-16.10	0.00
23	0.00	-18.82	0.00
45	0.00	-33.95	0.00
67	0.00	-34.34	0.00
89	0.00	-26.13	0.00
111	0.00	-19.30	0.00
133	0.00	-18.65	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
TREN30.EnvTrenGen.FY+

Envolvente de tren de cargas plano genérico. FY+

[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nudo1.Pos3.Mx

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	21.66	0.00
23	0.00	46.72	0.00
45	0.00	47.32	0.00
67	0.00	48.04	0.00
89	0.00	48.43	0.00
111	0.00	47.59	0.00
133	0.00	21.76	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
TREN30.EnvTrenGen.FY-

Envolvente de tren de cargas plano genérico. FY-

[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nudo1.Pos3.Mx

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	-2.92	0.00
23	0.00	-3.43	0.00
45	0.00	-4.05	0.00
67	0.00	-3.53	0.00
89	0.00	-2.82	0.00
111	0.00	-3.64	0.00
133	0.00	-3.51	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.FY+

Envolvente de tren de cargas plano genérico. FY+

[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.Mx+ + [0; 1]PA:

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	8.22	0.00
23	0.00	23.18	0.00
45	0.00	24.45	0.00
67	0.00	25.52	0.00
89	0.00	26.15	0.00
111	0.00	24.12	0.00
133	0.00	8.30	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.FY-

Envolvente de tren de cargas plano genérico. FY-

[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.Mx+ + [0; 1]PA:

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	-1.34	0.00
23	0.00	-1.57	0.00
45	0.00	-2.83	0.00
67	0.00	-2.86	0.00
89	0.00	-2.18	0.00
111	0.00	-1.61	0.00
133	0.00	-1.55	0.00

Programa DINTEL IDEAM S.A.
CEXT

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
CEXT

Cargas exteriores sobre El

[1; 1]CEXT

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	82.19	0.00
23	0.00	248.77	0.00
45	0.00	248.65	0.00
67	0.00	259.99	0.00
89	0.00	274.49	0.00
111	0.00	258.58	0.00
133	0.00	80.69	0.00

Programa DINTEL IDEAM S.A.
fase4.TOT.To

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
fase4.TOT.To

Pretensado Total (t=0)

[1; 1]fase4.FAM1.TOT + [1; 1]fase4.FAM2.TOT + [1; 1]fase4.FAM3.TOT + [1; 1]fase4.F

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	-2.67	0.00
23	0.00	3.25	0.00
45	0.00	-0.63	0.00
67	0.00	0.25	0.00
89	0.00	-0.79	0.00
111	0.00	3.16	0.00
133	0.00	-2.56	0.00

Programa DINTEL IDEAM S.A.
fase4.TOT.Tinf

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
fase4.TOT.Tinf

Pretensado Total (t=INF)

[1; 1]fase4.FAM1.TOT + [1; 1]fase4.FAM2.TOT + [1; 1]fase4.FAM3.TOT + [1; 1]fase4.F

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	-2.67	0.00
23	0.00	3.25	0.00
45	0.00	-0.63	0.00
67	0.00	0.25	0.00
89	0.00	-0.79	0.00
111	0.00	3.16	0.00
133	0.00	-2.56	0.00

Programa DINTEL IDEAM S.A.
fase8.TOT.To

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
fase8.TOT.To

Pretensado Total (t=0)

[1; 1]fase8.FAM1.TOT + [1; 1]fase8.FAM2.TOT + [1; 1]fase8.FAM3.TOT + [1; 1]fase8.F

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	54.41	0.00
23	0.00	-56.34	0.00
45	0.00	7.24	0.00
67	0.00	0.02	0.00
89	0.00	-9.88	0.00
111	0.00	-55.02	0.00
133	0.00	59.58	0.00

Programa DINTEL IDEAM S.A.
fase8.TOT.Tinf

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
fase8.TOT.Tinf

Pretensado Total (t=INF)

[1; 1]fase8.FAM1.TOT + [1; 1]fase8.FAM2.TOT + [1; 1]fase8.FAM3.TOT + [1; 1]fase8.F

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	54.41	0.00
23	0.00	-56.34	0.00
45	0.00	7.24	0.00
67	0.00	0.02	0.00
89	0.00	-9.88	0.00
111	0.00	-55.02	0.00
133	0.00	59.58	0.00

Programa DINTEL IDEAM S.A.
fase9.TOT.To

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
fase9.TOT.To

Pretensado Total (t=0)

[1; 1]fase9.FAM1.TOT + [1; 1]fase9.FAM2.TOT + [1; 1]fase9.FAM3.TOT + [1; 1]fase9.F

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	1.57	0.00
23	0.00	-1.89	0.00
45	0.00	0.40	0.00
67	0.00	-0.17	0.00
89	0.00	0.41	0.00
111	0.00	-1.85	0.00
133	0.00	1.54	0.00

Programa DINTEL IDEAM S.A.
fase9.TOT.Tinf

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
fase9.TOT.Tinf

Pretensado Total (t=INF)

[1; 1]fase9.FAM1.TOT + [1; 1]fase9.FAM2.TOT + [1; 1]fase9.FAM3.TOT + [1; 1]fase9.F

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	1.57	0.00
23	0.00	-1.89	0.00
45	0.00	0.40	0.00
67	0.00	-0.17	0.00
89	0.00	0.41	0.00
111	0.00	-1.85	0.00
133	0.00	1.54	0.00

Programa DINTEL IDEAM S.A.
RPTaller

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
RPTaller

Redistribución pret taller

[.85; .85]fase8.TOT.To

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	46.25	0.00
23	0.00	-47.89	0.00
45	0.00	6.15	0.00
67	0.00	0.02	0.00
89	0.00	-8.40	0.00
111	0.00	-46.77	0.00
133	0.00	50.65	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

RPBarras

Redistribución cosido barras

[.85; .85]fase9.TOT To + [-.85;-.85]fase4.TOT.To

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	3.60	0.00
23	0.00	-4.37	0.00
45	0.00	0.87	0.00
67	0.00	-0.35	0.00
89	0.00	1.02	0.00
111	0.00	-4.26	0.00
133	0.00	3.49	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

RCExt

Redistribución cargas exteriores

[.85; .85]CEXT + [-.85;-.85]Pvigas + [-.85;-.85]Prelosas + [-.85;-.85]HBCV + [-.85;-.85]HB

Coef exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	-15.09	0.00
23	0.00	14.95	0.00
45	0.00	-1.20	0.00
67	0.00	-0.38	0.00
89	0.00	2.28	0.00
111	0.00	14.62	0.00
133	0.00	-16.08	0.00

SUBANEJO 10. REACCIONES DE LOS ESTADOS INDIVIDUALES DE CARGA

ÍNDICE

Subanejo 10. Reacciones de los estados individuales de carga

Subanejo 10.1. Reacciones de los estados combinados de carga a tiempo 0

Subanejo 10.2. Reacciones de los estados combinados de carga a tiempo infinito

Subanejo 10.1

REACCIONES DE LOS ESTADOS COMBINADOS DE CARGA A TIEMPO 0

PERM.FY+.T0

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

PERM.FY+.T0

Cargas permananentes.Fy+.T0

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	177.53	0.00
23	0.00	486.11	0.00
45	0.00	500.96	0.00
67	0.00	524.12	0.00
89	0.00	549.89	0.00
111	0.00	506.59	0.00
133	0.00	175.70	0.00

PERM.FY-.T0

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

PERM.FY-.T0

Cargas permananentes.Fy-.T0

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	152.93	0.00
23	0.00	409.85	0.00
45	0.00	425.20	0.00
67	0.00	444.84	0.00
89	0.00	465.88	0.00
111	0.00	427.23	0.00
133	0.00	151.61	0.00

CUASIPERM.FY+.T0

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

CUASIPERM.FY+.T0

Combinación cuasipermananente.Fy+.T0

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	182.12	0.00
23	0.00	486.11	0.00
45	0.00	501.85	0.00
67	0.00	524.12	0.00
89	0.00	550.85	0.00
111	0.00	506.59	0.00
133	0.00	180.11	0.00

CUASIPERM.FY-.T0

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

CUASIPERM.FY-.T0

Combinación cuasipermananente.Fy-.T0

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	152.93	0.00
23	0.00	404.46	0.00
45	0.00	425.20	0.00
67	0.00	444.52	0.00
89	0.00	465.88	0.00
111	0.00	422.09	0.00
133	0.00	151.61	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
FREC.GRAD.FY+.T0

Combinación Frecuente. Dominante GRAD.Fy+.T0

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	183.04	0.00
23	0.00	486.11	0.00
45	0.00	502.03	0.00
67	0.00	524.12	0.00
89	0.00	551.05	0.00
111	0.00	506.59	0.00
133	0.00	180.99	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
FREC.IPF75B.FY+.T0

Combinación Frecuente. Dominante IPF75B.Fy+.T0

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	267.29	0.00
23	0.00	717.24	0.00
45	0.00	744.42	0.00
67	0.00	776.37	0.00
89	0.00	808.89	0.00
111	0.00	746.39	0.00
133	0.00	265.99	0.00

FREC.GRAD.FY-.T0

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

FREC.GRAD.FY-.T0

Combinación Frecuente. Dominante GRAD.Fy-.T0

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	152.93	0.00
23	0.00	403.38	0.00
45	0.00	425.20	0.00
67	0.00	444.46	0.00
89	0.00	465.88	0.00
111	0.00	421.06	0.00
133	0.00	151.61	0.00

FREC.IPF75B.FY-.T0

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

FREC.IPF75B.FY-.T0

Combinación Frecuente. Dominante IPF75B.Fy-.T0

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	139.42	0.00
23	0.00	388.66	0.00
45	0.00	398.03	0.00
67	0.00	417.40	0.00
89	0.00	445.15	0.00
111	0.00	405.80	0.00
133	0.00	135.87	0.00

INFREC.GRAD.FY+.T0

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

INFREC.GRAD.FY+.T0

Combinación Infrecuente. Dominante GRAD.Fy+.T0

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	300.27	0.00
23	0.00	794.29	0.00
45	0.00	826.17	0.00
67	0.00	860.45	0.00
89	0.00	895.87	0.00
111	0.00	826.33	0.00
133	0.00	299.03	0.00

INFREC.IPF75B.FY+.T0

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

INFREC.IPF75B.FY+.T0

Combinación Infrecuente. Dominante IPF75B.Fy+.T0

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	324.98	0.00
23	0.00	871.33	0.00
45	0.00	906.31	0.00
67	0.00	944.53	0.00
89	0.00	981.11	0.00
111	0.00	906.26	0.00
133	0.00	324.13	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
INFREC.GRAD.FY-.T0

Combinación Infrecuente. Dominante GRAD.Fy-.T0

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	134.92	0.00
23	0.00	377.99	0.00
45	0.00	388.98	0.00
67	0.00	408.04	0.00
89	0.00	438.25	0.00
111	0.00	395.23	0.00
133	0.00	130.63	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
INFREC.IPF75B.FY-.T0

Combinación Infrecuente. Dominante IPF75B.Fy-.T0

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	130.41	0.00
23	0.00	377.04	0.00
45	0.00	379.92	0.00
67	0.00	399.26	0.00
89	0.00	431.34	0.00
111	0.00	393.92	0.00
133	0.00	125.38	0.00

Subanejo 10.2

REACCIONES DE LOS ESTADOS COMBINADOS DE CARGA A TIEMPO INFINITO

PERM.FY+.Tinf

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

PERM.FY+.Tinf

Cargas permananentes.Fy+.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	201.17	0.00
23	0.00	460.35	0.00
45	0.00	505.28	0.00
67	0.00	523.43	0.00
89	0.00	546.70	0.00
111	0.00	481.47	0.00
133	0.00	201.61	0.00

PERM.FY-.Tinf

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

PERM.FY-.Tinf

Cargas permananentes.Fy-.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	176.58	0.00
23	0.00	384.10	0.00
45	0.00	429.51	0.00
67	0.00	444.15	0.00
89	0.00	462.69	0.00
111	0.00	402.11	0.00
133	0.00	177.51	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
CUASIPERM.FY+.Tinf

Combinación cuasipermananente.Fy+.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;
Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	205.76	0.00
23	0.00	460.35	0.00
45	0.00	506.17	0.00
67	0.00	523.43	0.00
89	0.00	547.66	0.00
111	0.00	481.47	0.00
133	0.00	206.01	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
CUASIPERM.FY-.Tinf

Combinación cuasipermananente.Fy-.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;
Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	176.58	0.00
23	0.00	378.70	0.00
45	0.00	429.51	0.00
67	0.00	443.83	0.00
89	0.00	462.69	0.00
111	0.00	396.97	0.00
133	0.00	177.51	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

FREC.GRAD.FY+.Tinf

Combinación Frecuente. Dominante GRAD.Fy+.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	206.68	0.00
23	0.00	460.35	0.00
45	0.00	506.35	0.00
67	0.00	523.43	0.00
89	0.00	547.86	0.00
111	0.00	481.47	0.00
133	0.00	206.89	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

FREC.IPF75B.FY+.Tinf

Combinación Frecuente. Dominante IPF75B.Fy+.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	290.93	0.00
23	0.00	691.49	0.00
45	0.00	748.73	0.00
67	0.00	775.68	0.00
89	0.00	805.70	0.00
111	0.00	721.27	0.00
133	0.00	291.90	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

FREC.GRAD.FY-.Tinf

Combinación Frecuente. Dominante GRAD.Fy-.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	176.58	0.00
23	0.00	377.63	0.00
45	0.00	429.51	0.00
67	0.00	443.77	0.00
89	0.00	462.69	0.00
111	0.00	395.94	0.00
133	0.00	177.51	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

FREC.IPF75B.FY-.Tinf

Combinación Frecuente. Dominante IPF75B.Fy-.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	163.06	0.00
23	0.00	362.90	0.00
45	0.00	402.35	0.00
67	0.00	416.71	0.00
89	0.00	441.96	0.00
111	0.00	380.68	0.00
133	0.00	161.78	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
INFREC.GRAD.FY+.Tinf

Combinación Infrecuente. Dominante GRAD.Fy+.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;
Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	323.91	0.00
23	0.00	768.53	0.00
45	0.00	830.48	0.00
67	0.00	859.76	0.00
89	0.00	892.68	0.00
111	0.00	801.21	0.00
133	0.00	324.93	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:
INFREC.IPF75B.FY+.Tinf

Combinación Infrecuente. Dominante IPF75B.Fy+.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;
Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	348.63	0.00
23	0.00	845.58	0.00
45	0.00	910.62	0.00
67	0.00	943.84	0.00
89	0.00	977.92	0.00
111	0.00	881.14	0.00
133	0.00	350.04	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

INFREC.GRAD.FY-.Tinf

Combinación Infrecuente. Dominante GRAD.Fy-.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	158.56	0.00
23	0.00	352.24	0.00
45	0.00	393.29	0.00
67	0.00	407.35	0.00
89	0.00	435.06	0.00
111	0.00	370.11	0.00
133	0.00	156.53	0.00

CÁLCULO DE REACCIONES

Hipótesis de cálculo:

INFREC.IPF75B.FY-.Tinf

Combinación Infrecuente. Dominante IPF75B.Fy-.Tinf

[1; 1]Pvigas + [1; 1]Prelosas + [1; 1]HBCV + [.9; 1.1]fase4.TOT.To + [1; 1]HBCP + [1;

Coef. exc:

Nudo	X	Fy (T)	Mx (Tm)
1	0.00	154.05	0.00
23	0.00	351.29	0.00
45	0.00	384.24	0.00
67	0.00	398.57	0.00
89	0.00	428.15	0.00
111	0.00	368.80	0.00
133	0.00	151.29	0.00

Subanejo 11

OBTENCIÓN DE CTES M (1), N(1), M(2) Y N(2)

Sección STPCS (sin armaduras) tensiones obtenidas en kg/cm² por esfuerzo 1000

CA:	M1	N1
IV	69'5	87'1
SV	-30'0	17'4
IL	-18'5	12'3
SL	-29'8	3'2

CBC	M1	N1
IV	67'8	39'9
SV	-22'6	30'9
IL	-16'5	25'4
SL	-31'5	25'6

Stotal	M1	N1	M2	N2
IV	67'7	32'9	67	32'9
SV	-22'3	32'9	-22'3	32'9
IL	-19'4	28'50	-19'4	28'50
SL	-31'2	28'50	-31'2	28'50

M1: 1000 mton tipo 1
N1: 1000 ton en CDG de la sección, tipo 1
M2: 1000 mtor tipo 2
N2: 1000 ton en CDG de la sección, tipo 2

SECCIÓN STNEG (sin armaduras) tensiones en kp/cm² para esfuerzo 1000

CA	M1	N1
IV	67'7	75'7
SV	-38'0	19'6
IL	-26'6	14'7
SL	-39'0	7'3

CBC	M1	N1
IV	66'4	39'6
SV	-32'2	35'5
IL	-25'6	29'4
SL	-40'9	30'3

Stotal	M1	N1	M2	N2
IV	66'1	36'8	66'1	36'8
SV	-32'0	36'8	-32'0	36'8
IL	-27'8	31'9	-27'8	31'9
SL	-40'7	31'9	-40'7	31'9

Proyecto:
BORGES BLANQUES

Seccion:STPOS BR

MATERIALES

Num.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
1(HO)	500.0	1.40	367733	2.25	1.35
2(HO)	300.0	1.50	319387	2.25	1.35
3(RD)	5100.0	1.10	2100000		
4(PR)	17100.0	1.10	1900000		
5(RD)	5100.0	1.15	2100000		
6(PR)	8350.0	1.10	1650000		

ECCIONES PARCIALES

um	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	34.0	182.0	35.0	C*	0
2	1	29.2	14.8	35.0	C*	0
3	1	17.0	17.6	35.0	C*	0
4	1	20.5	10.0	49.8	C*	0
5	1	14.3	8.1	52.6	C*	0
6	1	10.6	7.7	209.3	C*	0
7	1	11.3	12.0	205.0	C*	0
8	1	3.4	12.0	217.0	C*	0
9	1	328.0	18.0	217.0	C*	0
0	2	480.0	30.2	4.8	C*	0
1	2	220.0	23.2	11.8	C*	0
2	4	0.0	13.3	227.6	*T	0
3	4	0.0	13.3	40.0	*T	0
4	3	0.0	25.0	230.0	CT	0
5	3	0.0	12.0	42.5	CT	0
6	5	0.0	12.0	7.3	CT	0
7	5	0.0	12.0	26.5	CT	0
8	5	0.0	12.0	14.3	CT	0
9	5	0.0	12.0	26.5	CT	0

IC ONES INTERMEDIAS

m.	Codigo	Componentes
	HO	1 2 3 4 5 6 7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6 7 8 9 12 13 14 15
	CBC	1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17

* CONSTANTES ESTATICAS *

COMPLETA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
pura -	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
Simple	(0)	5327.5	84.55	38907549.7
	(1)	1639.2	84.55	11971553.8
	(2)	2267.0	84.55	16556404.1
Simple	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

* CONSTANTES ESTATICAS *

tulo Seccion: STPOS BR

Intermedia CA

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
pura -	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
Simple	(0)	2346.5	165.52	11203152.7
	(1)	722.0	165.52	3447123.9
	(2)	998.5	165.52	4767299.0
Simple	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0

Intermedia CBC

po	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
pura +	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
pura -	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
Simple	(0)	4551.2	94.98	35474952.9
	(1)	1400.4	94.98	10915370.1
	(2)	1936.7	94.98	15095724.6
Simple	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

** CALCULO ELASTICO **

Tipo de Seccion: STPOS BR

Analisis SIN FISURACION

Secuencia Incrementos de Carga:

Incremento de Carga 1 :
Flector : 1000.00m.T MOM CA
Tipo de Solicitacion: CP
Seccion Afectada: CA

TENSIONES (Kg/cm2):

ESTADO INICIAL (To)					ESTADO FINAL (Tinf)					
Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
1	165.5	-204.0	80.5	0.0	0.0	1	95.4	-30.0	60.5	0.0	0.
2	165.5	-204.0	-180.9	0.0	0.0	2	95.4	-30.0	-22.7	0.0	0.
3	165.5	-204.0	-176.5	0.0	0.0	3	95.4	-30.0	-21.3	0.0	0.
4	165.5	-180.9	-165.2	0.0	0.0	4	95.4	-22.7	-17.7	0.0	0.
5	165.5	-176.5	-163.8	0.0	0.0	5	95.4	-21.3	-17.2	0.0	0.
6	165.5	68.5	80.5	0.0	0.0	6	95.4	56.7	60.5	0.0	0.
7	165.5	61.7	80.5	0.0	0.0	7	95.4	54.5	60.5	0.0	0.
8	165.5	80.5	99.2	0.0	0.0	8	95.4	60.5	66.5	0.0	0.
9	165.5	80.5	108.6	0.0	0.0	9	95.4	60.5	69.5	0.0	0.
10	$$$$$$	0.0	0.0	0.0	0.0	10	84.5	-29.8	-18.5	0.0	0.
11	$$$$$$	0.0	0.0	0.0	0.0	11	84.5	-27.2	-18.5	0.0	0.
12	165.5	501.3	512.1	0.0	512.1	12	133.7	1249.8	1267.5	0.0	1267.
13	165.5	-1013.7	-1003.0	0.0	1013.7	13	133.7	-1246.8	-1229.1	0.0	1246.
14	165.5	575.5	597.9	0.0	597.9	14	133.7	1416.7	1453.4	0.0	1453.
15	165.5	-1098.1	-1087.4	0.0	1098.1	15	133.7	-1341.3	-1323.6	0.0	1341.
16	$$$$$$	0.0	0.0	0.0	0.0	16	84.5	-446.7	-439.8	0.0	446.
17	$$$$$$	0.0	0.0	0.0	0.0	17	84.5	-335.7	-328.8	0.0	335.
18	$$$$$$	0.0	0.0	0.0	0.0	18	84.5	-406.3	-399.3	0.0	406.
19	$$$$$$	0.0	0.0	0.0	0.0	19	84.5	-335.7	-328.8	0.0	335.

Incrementos de Carga:
1

Incremento de Carga 2 :
Flector : 1000.00m.T MOM CBC
Tipo de Solicitacion: CP
Seccion Afectada: CBC

TENSIONES (Kg/cm2):

ESTADO INICIAL (To)					ESTADO FINAL (Tinf)					
Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
1	95.0	-29.6	60.2	0.0	0.0	1	85.0	-22.6	59.6	0.0	0.
2	95.0	-29.6	-22.3	0.0	0.0	2	85.0	-22.6	-15.9	0.0	0.
3	95.0	-29.6	-20.9	0.0	0.0	3	85.0	-22.6	-14.7	0.0	0.
4	95.0	-22.3	-17.4	0.0	0.0	4	85.0	-15.9	-11.4	0.0	0.
5	95.0	-20.9	-16.9	0.0	0.0	5	85.0	-14.7	-11.0	0.0	0.
6	95.0	56.4	60.2	0.0	0.0	6	85.0	56.2	59.6	0.0	0.
7	95.0	54.3	60.2	0.0	0.0	7	85.0	54.2	59.6	0.0	0.
8	95.0	60.2	66.2	0.0	0.0	8	85.0	59.6	65.1	0.0	0.
9	95.0	60.2	69.1	0.0	0.0	9	85.0	59.6	67.8	0.0	0.
10	95.0	-38.7	-25.7	0.0	0.0	10	85.0	-31.5	-19.6	0.0	0.
11	$$$$$$	0.0	0.0	0.0	0.0	11	84.5	-27.2	-18.5	0.0	0.
12	95.0	338.2	341.6	0.0	341.6	12	88.0	1086.7	1097.1	0.0	1097.
13	95.0	-140.2	-136.8	0.0	140.2	13	88.0	-373.3	-363.0	0.0	373.
14	95.0	380.6	387.7	0.0	387.7	14	88.0	1221.7	1243.2	0.0	1243.
15	95.0	-147.9	-144.6	0.0	147.9	15	88.0	-391.1	-380.8	0.0	391.
16	95.0	-247.2	-243.8	0.0	247.2	16	88.0	-693.9	-683.6	0.0	693.9
17	95.0	-193.0	-189.7	0.0	193.0	17	88.0	-528.7	-518.4	0.0	528.7
18	$$$$$$	0.0	0.0	0.0	0.0	18	84.5	-406.3	-399.3	0.0	406.3
19	$$$$$$	0.0	0.0	0.0	0.0	19	84.5	-335.7	-328.8	0.0	335.7

Incrementos de Carga:

Incremento de Carga 3 :
Flector : 1000.00m.T MOM TOT
Tipo de Solicitacion: CP
Seccion Afectada: TOTAL

TENSIONES (Kg/cm2):

ESTADO INICIAL (To)					ESTADO FINAL (Tinf)					
Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
1	84.5	-22.3	59.6	0.0	0.0	1	84.5	-22.3	59.6	0.0	0.0
2	84.5	-22.3	-15.6	0.0	0.0	2	84.5	-22.3	-15.6	0.0	0.0
3	84.5	-22.3	-14.4	0.0	0.0	3	84.5	-22.3	-14.4	0.0	0.0
4	84.5	-15.6	-11.1	0.0	0.0	4	84.5	-15.6	-11.1	0.0	0.0
5	84.5	-14.4	-10.7	0.0	0.0	5	84.5	-14.4	-10.7	0.0	0.0
6	84.5	56.2	59.6	0.0	0.0	6	84.5	56.2	59.6	0.0	0.0
7	84.5	54.2	59.6	0.0	0.0	7	84.5	54.2	59.6	0.0	0.0
8	84.5	59.6	65.0	0.0	0.0	8	84.5	59.6	65.0	0.0	0.0
9	84.5	59.6	67.7	0.0	0.0	9	84.5	59.6	67.7	0.0	0.0
10	84.5	-31.2	-19.4	0.0	0.0	10	84.5	-31.2	-19.4	0.0	0.0
11	84.5	-28.4	-19.4	0.0	0.0	11	84.5	-28.4	-19.4	0.0	0.0
12	84.5	332.7	335.7	0.0	335.7	12	84.5	1081.1	1091.2	0.0	1091.2
13	84.5	-103.6	-100.5	0.0	103.6	13	84.5	-336.7	-326.6	0.0	336.7
14	84.5	373.8	380.3	0.0	380.3	14	84.5	1215.0	1235.8	0.0	1235.8
15	84.5	-108.1	-105.0	0.0	108.1	15	84.5	-351.2	-341.2	0.0	351.2
16	84.5	-198.5	-195.5	0.0	198.5	16	84.5	-645.3	-635.3	0.0	645.3
17	84.5	-149.2	-146.1	0.0	149.2	17	84.5	-484.9	-474.9	0.0	484.9
18	84.5	-180.6	-177.5	0.0	180.6	18	84.5	-586.8	-576.8	0.0	586.8
19	84.5	-149.2	-146.1	0.0	149.2	19	84.5	-484.9	-474.9	0.0	484.9

Incrementos de Carga:

Incremento de Carga 4 :
Flector : 1000.00m.T MOM INF
Tipo de Solicitacion: CP:tf[2]
Seccion Afectada: TOTAL

TENSIONES (Kg/cm2):

ESTADO INICIAL (To)					ESTADO FINAL (Tinf)					
Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
$$$$$$	0.0	0.0	0.0	0.0	1	84.5	-22.3	59.6	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	2	84.5	-22.3	-15.6	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	3	84.5	-22.3	-14.4	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	4	84.5	-15.6	-11.1	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	5	84.5	-14.4	-10.7	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	6	84.5	56.2	59.6	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	7	84.5	54.2	59.6	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	8	84.5	59.6	65.0	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	9	84.5	59.6	67.7	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	10	84.5	-31.2	-19.4	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	11	84.5	-28.4	-19.4	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	12	84.5	781.7	789.0	0.0	789.0
$$$$$$	0.0	0.0	0.0	0.0	13	84.5	-243.5	-236.2	0.0	243.5
$$$$$$	0.0	0.0	0.0	0.0	14	84.5	878.5	893.6	0.0	893.6
$$$$$$	0.0	0.0	0.0	0.0	15	84.5	-254.0	-246.7	0.0	254.0
$$$$$$	0.0	0.0	0.0	0.0	16	84.5	-466.6	-459.3	0.0	466.6
					17	84.5	-350.6	-343.4	0.0	350.6

18	$$$$$$	0.0	0.0	0.0	0.0	18	84.5	-424.3	-417.1	0.0	424.
19	$$$$$$	0.0	0.0	0.0	0.0	19	84.5	-350.6	-343.4	0.0	350.

crementos de Carga:
4

Incremento de Carga 5 :
Axil : 1000.00Tn. AXIL CA
Excentricidad: 165.52cm. (respecto a la directriz)
Tipo de Solicitacion: CP
Seccion Afectada: CA

TENSIONES (Kg/cm2):

ESTADO INICIAL (To)					ESTADO FINAL (Tinf)					
Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcor
1	$$$$$$	74.6	74.6	0.0	0.0	1	-14.7	17.4	80.9	0.0	0
2	$$$$$$	74.6	74.6	0.0	0.0	2	-14.7	17.4	22.5	0.0	0
3	$$$$$$	74.6	74.6	0.0	0.0	3	-14.7	17.4	23.5	0.0	0
4	$$$$$$	74.6	74.6	0.0	0.0	4	-14.7	22.5	26.0	0.0	0
5	$$$$$$	74.6	74.6	0.0	0.0	5	-14.7	23.5	26.3	0.0	0
6	$$$$$$	74.6	74.6	0.0	0.0	6	-14.7	78.2	80.9	0.0	0
7	$$$$$$	74.6	74.6	0.0	0.0	7	-14.7	76.7	80.9	0.0	0
8	$$$$$$	74.6	74.6	0.0	0.0	8	-14.7	80.9	85.0	0.0	0
9	$$$$$$	74.6	74.6	0.0	0.0	9	-14.7	80.9	87.1	0.0	0
10	$$$$$$	0.0	0.0	0.0	0.0	10	-5.6	3.2	12.3	0.0	0
11	$$$$$$	0.0	0.0	0.0	0.0	11	-5.6	5.3	12.3	0.0	0
12	$$$$$$	385.6	385.6	0.0	385.6	12	-96.7	1373.7	1379.4	0.0	1379
13	$$$$$$	385.6	385.6	0.0	385.6	13	-96.7	579.0	584.6	0.0	584
14	$$$$$$	426.2	426.2	0.0	426.2	14	-96.7	1529.6	1541.3	0.0	1541
15	$$$$$$	426.2	426.2	0.0	426.2	15	-96.7	651.6	657.2	0.0	657
16	$$$$$$	0.0	0.0	0.0	0.0	16	-5.6	60.6	66.2	0.0	66
17	$$$$$$	0.0	0.0	0.0	0.0	17	-5.6	150.5	156.1	0.0	156
18	$$$$$$	0.0	0.0	0.0	0.0	18	-5.6	93.4	99.0	0.0	99
19	$$$$$$	0.0	0.0	0.0	0.0	19	-5.6	150.5	156.1	0.0	156

Incrementos de Carga:
5

Incremento de Carga 6 :
Axil : 1000.00Tn. AXIL CBC
Excentricidad: 94.98cm. (respecto a la directriz)
) de Solicitacion: CP
Seccion Afectada: CBC

ENSIONES (Kg/cm2):

STADO INICIAL (To)					ESTADO FINAL (Tinf)					
sp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcor
1	$$$$$$	38.5	38.5	0.0	0.0	1	-652.1	30.9	39.1	0.0	0
2	$$$$$$	38.5	38.5	0.0	0.0	2	-652.1	30.9	31.5	0.0	0
3	$$$$$$	38.5	38.5	0.0	0.0	3	-652.1	30.9	31.7	0.0	0
4	$$$$$$	38.5	38.5	0.0	0.0	4	-652.1	31.5	32.0	0.0	0
5	$$$$$$	38.5	38.5	0.0	0.0	5	-652.1	31.7	32.0	0.0	0
6	$$$$$$	38.5	38.5	0.0	0.0	6	-652.1	38.7	39.1	0.0	0
7	$$$$$$	38.5	38.5	0.0	0.0	7	-652.1	38.5	39.1	0.0	0
8	$$$$$$	38.5	38.5	0.0	0.0	8	-652.1	39.1	39.6	0.0	0
9	$$$$$$	38.5	38.5	0.0	0.0	9	-652.1	39.1	39.9	0.0	0
0	$$$$$$	33.4	33.4	0.0	0.0	10	-652.1	25.6	26.8	0.0	0
1	$$$$$$	0.0	0.0	0.0	0.0	11	-615.7	24.5	25.4	0.0	0
2	$$$$$$	198.8	198.8	0.0	198.8	12	-979.9	659.0	659.7	0.0	659
3	$$$$$$	198.8	198.8	0.0	198.8	13	-979.9	556.6	557.3	0.0	557
4	$$$$$$	219.7	219.7	0.0	219.7	14	-979.9	729.8	731.3	0.0	731
5	$$$$$$	219.7	219.7	0.0	219.7	15	-979.9	616.7	617.4	0.0	617
6	$$$$$$	219.7	219.7	0.0	219.7	16	-979.9	595.5	596.2	0.0	596
7	$$$$$$	219.7	219.7	0.0	219.7	17	-979.9	607.0	607.8	0.0	607

	$$$$$$	0.0	0.0	0.0	0.0	18	-615.7	380.0	380.7	0.0	380.7
	$$$$$$	0.0	0.0	0.0	0.0	19	-615.7	387.3	388.0	0.0	388.0

crementos de Carga:
6

cremento de Carga 7 :
il : 1000.00Tn. AXIL TOT
centricidad: 84.55cm. (respecto a la directriz)
po de Solicitacion: CP
ccion Afectada: TOTAL

NSIONES (Kg/cm2):

TADO INICIAL (To)					ESTADO FINAL (Tinf)					
p	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
	$$$$$$	32.9	32.9	0.0	0.0	1	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	32.9	32.9	0.0	0.0	2	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	32.9	32.9	0.0	0.0	3	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	32.9	32.9	0.0	0.0	4	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	32.9	32.9	0.0	0.0	5	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	32.9	32.9	0.0	0.0	6	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	32.9	32.9	0.0	0.0	7	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	32.9	32.9	0.0	0.0	8	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	28.5	28.5	0.0	0.0	9	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	28.5	28.5	0.0	0.0	10	$$$$$$	28.5	28.5	0.0	0.0
	$$$$$$	169.8	169.8	0.0	169.8	11	$$$$$$	28.5	28.5	0.0	0.0
	$$$$$$	169.8	169.8	0.0	169.8	12	$$$$$$	551.9	551.9	0.0	551.9
	$$$$$$	187.7	187.7	0.0	187.7	13	$$$$$$	551.9	551.9	0.0	551.9
	$$$$$$	187.7	187.7	0.0	187.7	14	$$$$$$	610.0	610.0	0.0	610.0
	$$$$$$	187.7	187.7	0.0	187.7	15	$$$$$$	610.0	610.0	0.0	610.0
	$$$$$$	187.7	187.7	0.0	187.7	16	$$$$$$	610.0	610.0	0.0	610.0
	$$$$$$	187.7	187.7	0.0	187.7	17	$$$$$$	610.0	610.0	0.0	610.0
	$$$$$$	187.7	187.7	0.0	187.7	18	$$$$$$	610.0	610.0	0.0	610.0
	$$$$$$	187.7	187.7	0.0	187.7	19	$$$$$$	610.0	610.0	0.0	610.0

crementos de Carga:
7

cremento de Carga 8 :
il : 1000.00Tn. AXIL INF
centricidad: 84.55cm. (respecto a la directriz)
po de Solicitacion: CP:tf[2]
ccion Afectada: TOTAL

NSIONES (Kg/cm2):

TADO INICIAL (To)					ESTADO FINAL (Tinf)					
p	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
	$$$$$$	0.0	0.0	0.0	0.0	1	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	0.0	0.0	0.0	0.0	2	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	0.0	0.0	0.0	0.0	3	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	0.0	0.0	0.0	0.0	4	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	0.0	0.0	0.0	0.0	5	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	0.0	0.0	0.0	0.0	6	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	0.0	0.0	0.0	0.0	7	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	0.0	0.0	0.0	0.0	8	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	0.0	0.0	0.0	0.0	9	$$$$$$	32.9	32.9	0.0	0.0
	$$$$$$	0.0	0.0	0.0	0.0	10	$$$$$$	28.5	28.5	0.0	0.0
	$$$$$$	0.0	0.0	0.0	0.0	11	$$$$$$	28.5	28.5	0.0	0.0
	$$$$$$	0.0	0.0	0.0	0.0	12	$$$$$$	399.1	399.1	0.0	399.1
	$$$$$$	0.0	0.0	0.0	0.0	13	$$$$$$	399.1	399.1	0.0	399.1
	$$$$$$	0.0	0.0	0.0	0.0	14	$$$$$$	441.1	441.1	0.0	441.1
	$$$$$$	0.0	0.0	0.0	0.0	15	$$$$$$	441.1	441.1	0.0	441.1
	$$$$$$	0.0	0.0	0.0	0.0	16	$$$$$$	441.1	441.1	0.0	441.1
	$$$$$$	0.0	0.0	0.0	0.0	17	$$$$$$	441.1	441.1	0.0	441.1

L8	$$$$$$	0.0	0.0	0.0	0.0	18	$$$$$$	441.1	441.1	0.0	441.1
L9	$$$$$$	0.0	0.0	0.0	0.0	19	$$$$$$	441.1	441.1	0.0	441.1

·ementos de Carga:

>yecto:
RGES BLANQUES

:cion:STNEG BR

TERIALES

ım.	Fck (Kg/cm2)	Gamma	M.El. (Kg/cm2)	$J_{\pi}1$	$J_{\pi}2$
(HO)	500.0	1.40	367733	2.25	1.35
(HO)	300.0	1.50	319387	2.25	1.35
(RD)	5100.0	1.10	2100000		
(PR)	17100.0	1.10	1900000		
(RD)	5100.0	1.15	2100000		
(PR)	8350.0	1.10	1650000		

CCIONES PARCIALES

n	Mat.	B(cm) Num	H(cm) π(mm)	Yo(cm)	Mc	Nsr
	1	46.0	182.0	35.0	C*	0
	1	29.2	14.8	35.0	C*	0
	1	17.0	17.6	35.0	C*	0
	1	20.5	10.0	49.8	C*	0
	1	14.3	8.1	52.6	C*	0
	1	10.6	7.7	209.3	C*	0
	1	11.3	12.0	205.0	C*	0
	1	3.4	12.0	217.0	C*	0
	1	328.0	18.0	217.0	C*	0
	2	387.2	30.2	4.8	C*	0
	2	67.0	25.2	9.9	C*	0
	4	0.0	13.3	227.6	*T	0
	4	0.0	13.3	40.0	*T	0
	3	0.0	25.0	230.0	CT	0
	3	0.0	12.0	42.5	CT	0
	5	0.0	25.0	7.3	CT	0
	5	0.0	25.0	26.5	CT	0
	5	0.0	25.0	14.3	CT	0
	5	0.0	25.0	26.5	CT	0

CCIONES INTERMEDIAS

n.	Codigo	Componentes
	HO	1 2 3 4 5 6
		7 8 9
	PI	12
	PS	13
	CA	1 2 3 4 5 6
		7 8 9 12 13 14 15
	CBC	1 2 3 4 5 6
		7 8 9 10 12 13 14
		15 16 17

· CONSTANTES ESTATICAS *

COMPLETA

>o	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
>ura +	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
>ura -	(0)	0.0	0.00	0.0

	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
Simple	(0)	4763.7	100.28	35692077.5
	(1)	1465.8	100.28	10982177.7
	(2)	2027.1	100.28	15188118.1
T.Simple	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0

*** Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

* CONSTANTES ESTATICAS *

Título Sección: STNEG BR

S.Intermedia CA

Tipo	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
Pura +	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
Pura -	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
.Simple	(0)	2729.0	159.98	12772450.9
	(1)	839.7	159.98	3929984.9
	(2)	1161.3	159.98	5435085.5
.Simple	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0

.Intermedia CBC

Tipo	Acciones	Area(cm2)	Xcg(cm)	Inercia(cm4)
Pura +	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
Pura -	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0
Simple	(0)	4507.4	104.71	34036645.7
	(1)	1386.9	104.71	10472814.1
	(2)	1918.0	104.71	14483679.0
Simple	(0)	0.0	0.00	0.0
	(1)	0.0	0.00	0.0
	(2)	0.0	0.00	0.0

* Nota: Homogeneizadas a E=2100000 Kp/cm2 ***

CALCULO ELASTICO **

Título Sección: STNEG BR

Análisis SIN FISURACION

Secuencia Incrementos de Carga:

Incremento de Carga 1 :
Sector : 1000.00m.T MOM CA
Tipo de Solicitacion: CP
Seccion Afectada: CA

TENSIONES (Kg/cm2):

ESTADO INICIAL (To)					ESTADO FINAL (Tinf)				
Yp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
160.0	-171.4	78.2		0.0	0.0	1	106.9	-38.0	58.2	0.0	0.0
160.0	-171.4	-151.1		0.0	0.0	2	106.9	-38.0	-30.1	0.0	0.0
160.0	-171.4	-147.2		0.0	0.0	3	106.9	-38.0	-28.7	0.0	0.0
160.0	-151.1	-137.4		0.0	0.0	4	106.9	-30.1	-24.9	0.0	0.0
160.0	-147.2	-136.1		0.0	0.0	5	106.9	-28.7	-24.4	0.0	0.0
160.0	67.7	78.2		0.0	0.0	6	106.9	54.1	58.2	0.0	0.0
160.0	61.7	78.2		0.0	0.0	7	106.9	51.8	58.2	0.0	0.0
160.0	78.2	94.6		0.0	0.0	8	106.9	58.2	64.5	0.0	0.0
160.0	78.2	102.8		0.0	0.0	9	106.9	58.2	67.7	0.0	0.0
$$$$$$	0.0	0.0		0.0	0.0	10	100.3	-39.0	-26.6	0.0	0.0
$$$$$$	0.0	0.0		0.0	0.0	11	100.3	-36.9	-26.6	0.0	0.0
160.0	479.0	488.4		0.0	488.4	12	133.4	1205.1	1222.1	0.0	1222.1
160.0	-849.9	-840.5		0.0	849.9	13	133.4	-1193.8	-1176.7	0.0	1193.8
160.0	548.2	567.8		0.0	567.8	14	133.4	1365.9	1401.2	0.0	1401.2
160.0	-919.8	-910.4		0.0	919.8	15	133.4	-1284.1	-1267.1	0.0	1284.1
$$$$$$	0.0	0.0		0.0	0.0	16	100.3	-586.2	-570.4	0.0	586.2
$$$$$$	0.0	0.0		0.0	0.0	17	100.3	-465.1	-449.4	0.0	465.1
$$$$$$	0.0	0.0		0.0	0.0	18	100.3	-542.0	-526.3	0.0	542.0
$$$$$$	0.0	0.0		0.0	0.0	19	100.3	-465.1	-449.4	0.0	465.1

Incrementos de Carga:
1

Incremento de Carga 2 :
Sector : 1000.00m.T MOM CBC
Tipo de Solicitacion: CP
Seccion Afectada: CBC

TENSIONES (Kg/cm2):

ESTADO INICIAL (To)					ESTADO FINAL (Tinf)				
Yp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
104.7	-35.9	57.8		0.0	0.0	1	100.5	-32.2	57.3	0.0	0.0
104.7	-35.9	-28.3		0.0	0.0	2	100.5	-32.2	-24.9	0.0	0.0
104.7	-35.9	-26.8		0.0	0.0	3	100.5	-32.2	-23.5	0.0	0.0
104.7	-28.3	-23.1		0.0	0.0	4	100.5	-24.9	-20.0	0.0	0.0
104.7	-26.8	-22.6		0.0	0.0	5	100.5	-23.5	-19.5	0.0	0.0
104.7	53.8	57.8		0.0	0.0	6	100.5	53.5	57.3	0.0	0.0
104.7	51.6	57.8		0.0	0.0	7	100.5	51.4	57.3	0.0	0.0
104.7	57.8	63.9		0.0	0.0	8	100.5	57.3	63.2	0.0	0.0
104.7	57.8	67.0		0.0	0.0	9	100.5	57.3	66.1	0.0	0.0
104.7	-44.6	-31.1		0.0	0.0	10	100.5	-40.9	-28.0	0.0	0.0
$$$$$$	0.0	0.0		0.0	0.0	11	100.3	-36.9	-26.6	0.0	0.0
104.7	326.7	330.2		0.0	330.2	12	101.7	1052.8	1063.9	0.0	1063.9
104.7	-172.0	-168.5		0.0	172.0	13	101.7	-515.9	-504.7	0.0	515.9
104.7	368.1	375.4		0.0	375.4	14	101.7	1185.8	1208.9	0.0	1208.9
104.7	-182.8	-179.3		0.0	182.8	15	101.7	-547.0	-536.0	0.0	547.0

16	104.7	-286.2	-278.9	0.0	286.2	16	101.7	-872.4	-849.3	0.0	872.
17	104.7	-229.8	-222.4	0.0	229.8	17	101.7	-694.9	-671.8	0.0	694.
18	$$$$$$	0.0	0.0	0.0	0.0	18	100.3	-542.0	-526.3	0.0	542.
	$$$$$$	0.0	0.0	0.0	0.0	19	100.3	-465.1	-449.4	0.0	465.

Incrementos de Carga:
2

Incremento de Carga 3 :
Flector : 1000.00m.T MOM TOT
Tipo de Solicitacion: CP
Seccion Afectada: TOTAL

TENSIONES (Kg/cm2):

ESTADO INICIAL (To)					ESTADO FINAL (Tinf)					
Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcom
1	100.3	-32.0	57.3	0.0	0.0	1	100.3	-32.0	57.3	0.0	0.
2	100.3	-32.0	-24.8	0.0	0.0	2	100.3	-32.0	-24.8	0.0	0.
3	100.3	-32.0	-23.4	0.0	0.0	3	100.3	-32.0	-23.4	0.0	0.
4	100.3	-24.8	-19.9	0.0	0.0	4	100.3	-24.8	-19.9	0.0	0.
5	100.3	-23.4	-19.4	0.0	0.0	5	100.3	-23.4	-19.4	0.0	0.
	100.3	53.5	57.3	0.0	0.0	6	100.3	53.5	57.3	0.0	0.
	100.3	51.4	57.3	0.0	0.0	7	100.3	51.4	57.3	0.0	0.
8	100.3	57.3	63.1	0.0	0.0	8	100.3	57.3	63.1	0.0	0.
9	100.3	57.3	66.1	0.0	0.0	9	100.3	57.3	66.1	0.0	0.
10	100.3	-40.7	-27.8	0.0	0.0	10	100.3	-40.7	-27.8	0.0	0.
11	100.3	-38.5	-27.8	0.0	0.0	11	100.3	-38.5	-27.8	0.0	0.
12	100.3	322.7	326.1	0.0	326.1	12	100.3	1048.9	1059.8	0.0	1059.
13	100.3	-152.8	-149.4	0.0	152.8	13	100.3	-496.7	-485.7	0.0	496.
14	100.3	363.4	370.4	0.0	370.4	14	100.3	1181.1	1203.9	0.0	1203.
15	100.3	-161.9	-158.5	0.0	161.9	15	100.3	-526.2	-515.2	0.0	526.
16	100.3	-260.5	-253.5	0.0	260.5	16	100.3	-846.7	-823.9	0.0	846.
17	100.3	-206.7	-199.7	0.0	206.7	17	100.3	-671.9	-649.1	0.0	671.
18	100.3	-240.9	-233.9	0.0	240.9	18	100.3	-782.9	-760.2	0.0	782.
19	100.3	-206.7	-199.7	0.0	206.7	19	100.3	-671.9	-649.1	0.0	671.

Incrementos de Carga:
3

Incremento de Carga 4 :
Flector : 1000.00m.T MOM INF
Tipo de Solicitacion: CP:tf[2]
Seccion Afectada: TOTAL

TENSIONES (Kg/cm2):

ESTADO INICIAL (To)					ESTADO FINAL (Tinf)					
Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcom
1	$$$$$$	0.0	0.0	0.0	0.0	1	100.3	-32.0	57.3	0.0	0.
2	$$$$$$	0.0	0.0	0.0	0.0	2	100.3	-32.0	-24.8	0.0	0.
3	$$$$$$	0.0	0.0	0.0	0.0	3	100.3	-32.0	-23.4	0.0	0.
4	$$$$$$	0.0	0.0	0.0	0.0	4	100.3	-24.8	-19.9	0.0	0.
5	$$$$$$	0.0	0.0	0.0	0.0	5	100.3	-23.4	-19.4	0.0	0.
6	$$$$$$	0.0	0.0	0.0	0.0	6	100.3	53.5	57.3	0.0	0.
7	$$$$$$	0.0	0.0	0.0	0.0	7	100.3	51.4	57.3	0.0	0.
8	$$$$$$	0.0	0.0	0.0	0.0	8	100.3	57.3	63.1	0.0	0.
9	$$$$$$	0.0	0.0	0.0	0.0	9	100.3	57.3	66.1	0.0	0.
0	$$$$$$	0.0	0.0	0.0	0.0	10	100.3	-40.7	-27.8	0.0	0.
1	$$$$$$	0.0	0.0	0.0	0.0	11	100.3	-38.5	-27.8	0.0	0.
2	$$$$$$	0.0	0.0	0.0	0.0	12	100.3	758.4	766.3	0.0	766.
3	$$$$$$	0.0	0.0	0.0	0.0	13	100.3	-359.1	-351.2	0.0	359.
4	$$$$$$	0.0	0.0	0.0	0.0	14	100.3	854.1	870.5	0.0	870.
5	$$$$$$	0.0	0.0	0.0	0.0	15	100.3	-380.5	-372.6	0.0	380.
6	$$$$$$	0.0	0.0	0.0	0.0	16	100.3	-612.2	-595.8	0.0	612.
7	$$$$$$	0.0	0.0	0.0	0.0	17	100.3	-485.8	-469.3	0.0	485.

	$$$$$$	0.0	0.0	0.0	0.0	18	100.3	-566.1	-549.7	0.0	566.1
	$$$$$$	0.0	0.0	0.0	0.0	19	100.3	-485.8	-469.3	0.0	485.8

crementos de Carga:
4

cremento de Carga 5 :
il :
centricidad: 1000.00Tn. AXIL CA
po de Solicitacion: 159.98cm. (respecto a la directriz)
cion Afectada: CP
CA

NSIONES (Kg/cm2):

TADO INICIAL (To)

Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	ESTADO FINAL (Tinf) Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
$$$$$$	64.2	64.2	0.0	0.0	1	-35.0	19.6	70.7	0.0	0.0
$$$$$$	64.2	64.2	0.0	0.0	2	-35.0	19.6	23.8	0.0	0.0
$$$$$$	64.2	64.2	0.0	0.0	3	-35.0	19.6	24.6	0.0	0.0
$$$$$$	64.2	64.2	0.0	0.0	4	-35.0	23.8	26.6	0.0	0.0
$$$$$$	64.2	64.2	0.0	0.0	5	-35.0	24.6	26.8	0.0	0.0
$$$$$$	64.2	64.2	0.0	0.0	6	-35.0	68.5	70.7	0.0	0.0
$$$$$$	64.2	64.2	0.0	0.0	7	-35.0	67.3	70.7	0.0	0.0
$$$$$$	64.2	64.2	0.0	0.0	8	-35.0	70.7	74.0	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	9	-35.0	70.7	75.7	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	10	-25.2	7.3	14.7	0.0	0.0
$$$$$$	331.5	331.5	0.0	331.5	11	-25.2	8.5	14.7	0.0	0.0
$$$$$$	331.6	331.6	0.0	331.6	12	-122.6	1192.3	1196.9	0.0	1196.9
$$$$$$	366.4	366.4	0.0	366.4	13	-122.6	553.6	558.2	0.0	558.2
$$$$$$	366.5	366.5	0.0	366.5	14	-122.6	1326.9	1336.3	0.0	1336.3
$$$$$$	0.0	0.0	0.0	0.0	15	-122.6	621.3	625.8	0.0	625.8
$$$$$$	0.0	0.0	0.0	0.0	16	-25.2	122.4	131.8	0.0	131.8
$$$$$$	0.0	0.0	0.0	0.0	17	-25.2	194.7	204.1	0.0	204.1
$$$$$$	0.0	0.0	0.0	0.0	18	-25.2	148.7	158.2	0.0	158.2
$$$$$$	0.0	0.0	0.0	0.0	19	-25.2	194.7	204.1	0.0	204.1

crementos de Carga:
5

cremento de Carga 6 :
.l :
centricidad: 1000.00Tn. AXIL CBC
po de Solicitacion: 104.71cm. (respecto a la directriz)
cion Afectada: CP
CBC

NSIONES (Kg/cm2):

ADO INICIAL (To)

Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	ESTADO FINAL (Tinf) Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
$$$$$$	38.9	38.8	0.0	0.0	1	$$$$$$	35.5	39.3	0.0	0.0
$$$$$$	38.9	38.8	0.0	0.0	2	$$$$$$	35.5	35.8	0.0	0.0
$$$$$$	38.9	38.8	0.0	0.0	3	$$$$$$	35.5	35.9	0.0	0.0
$$$$$$	38.8	38.8	0.0	0.0	4	$$$$$$	35.8	36.0	0.0	0.0
$$$$$$	38.8	38.8	0.0	0.0	5	$$$$$$	35.9	36.0	0.0	0.0
$$$$$$	38.8	38.8	0.0	0.0	6	$$$$$$	39.1	39.3	0.0	0.0
$$$$$$	38.8	38.8	0.0	0.0	7	$$$$$$	39.0	39.3	0.0	0.0
$$$$$$	38.8	38.8	0.0	0.0	8	$$$$$$	39.3	39.5	0.0	0.0
$$$$$$	33.7	33.7	0.0	0.0	9	$$$$$$	39.3	39.6	0.0	0.0
$$$$$$	0.0	0.0	0.0	0.0	10	$$$$$$	30.3	30.8	0.0	0.0
$$$$$$	200.7	200.7	0.0	200.7	11	$$$$$$	28.9	29.4	0.0	0.0
$$$$$$	200.7	200.7	0.0	200.7	12	$$$$$$	660.2	660.5	0.0	660.5
$$$$$$	221.9	221.9	0.0	221.9	13	$$$$$$	612.9	613.2	0.0	613.2
$$$$$$	221.9	221.9	0.0	221.9	14	$$$$$$	730.4	731.1	0.0	731.1
$$$$$$	221.9	221.9	0.0	221.9	15	$$$$$$	678.1	678.4	0.0	678.4
$$$$$$	221.9	221.9	0.0	221.9	16	$$$$$$	668.2	668.9	0.0	668.9
			0.0	221.9	17	$$$$$$	673.6	674.3	0.0	674.3

18	$$$$$$	0.0	0.0	0.0	0.0	18 $$$$$$	448.3	449.0	0.0	449.0
19	$$$$$$	0.0	0.0	0.0	0.0	19 $$$$$$	451.7	452.4	0.0	452.4

crementos de Carga:
6

Incremento de Carga 7 :
Axil : 1000.00Tn. AXIL TOT
Excentricidad: 100.28cm. (respecto a la directriz)
Tipo de Solicitacion: CP
Seccion Afectada: TOTAL

TENSIONES (Kg/cm2):

ESTADO INICIAL (To)					ESTADO FINAL (Tinf)				
Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
1	$$$$$$	36.8	36.8	0.0	0.0	1 $$$$$$	36.8	36.8	0.0	0.0
2	$$$$$$	36.8	36.8	0.0	0.0	2 $$$$$$	36.8	36.8	0.0	0.0
3	$$$$$$	36.8	36.8	0.0	0.0	3 $$$$$$	36.8	36.8	0.0	0.0
4	$$$$$$	36.8	36.8	0.0	0.0	4 $$$$$$	36.8	36.8	0.0	0.0
5	$$$$$$	36.8	36.8	0.0	0.0	5 $$$$$$	36.8	36.8	0.0	0.0
6	$$$$$$	36.8	36.8	0.0	0.0	6 $$$$$$	36.8	36.8	0.0	0.0
	$$$$$$	36.8	36.8	0.0	0.0	7 $$$$$$	36.8	36.8	0.0	0.0
8	$$$$$$	36.8	36.8	0.0	0.0	8 $$$$$$	36.8	36.8	0.0	0.0
9	$$$$$$	36.8	36.8	0.0	0.0	9 $$$$$$	36.8	36.8	0.0	0.0
10	$$$$$$	31.9	31.9	0.0	0.0	10 $$$$$$	31.9	31.9	0.0	0.0
11	$$$$$$	31.9	31.9	0.0	0.0	11 $$$$$$	31.9	31.9	0.0	0.0
12	$$$$$$	189.9	189.9	0.0	189.9	12 $$$$$$	617.2	617.2	0.0	617.2
13	$$$$$$	189.9	189.9	0.0	189.9	13 $$$$$$	617.3	617.3	0.0	617.3
14	$$$$$$	209.9	209.9	0.0	209.9	14 $$$$$$	682.2	682.2	0.0	682.2
15	$$$$$$	209.9	209.9	0.0	209.9	15 $$$$$$	682.3	682.3	0.0	682.3
16	$$$$$$	209.9	209.9	0.0	209.9	16 $$$$$$	682.3	682.3	0.0	682.3
17	$$$$$$	209.9	209.9	0.0	209.9	17 $$$$$$	682.3	682.3	0.0	682.3
18	$$$$$$	209.9	209.9	0.0	209.9	18 $$$$$$	682.3	682.3	0.0	682.3
19	$$$$$$	209.9	209.9	0.0	209.9	19 $$$$$$	682.3	682.3	0.0	682.3

Incrementos de Carga:
7

Incremento de Carga 8 :
Axil : 1000.00Tn. AXIL INF
Excentricidad: 100.28cm. (respecto a la directriz)
Tipo de Solicitacion: CP:tf[2]
Seccion Afectada: TOTAL

TENSIONES (Kg/cm2):

ESTADO INICIAL (To)					ESTADO FINAL (Tinf)				
Nsp	Yn(cm)	Tsup.	Tinf.	Tao	Tcomp	Nsp Yn(cm)	Tsup.	Tinf.	Tao	Tcomp
1	$$$$$$	0.0	0.0	0.0	0.0	1 $$$$$$	36.8	36.8	0.0	0.0
2	$$$$$$	0.0	0.0	0.0	0.0	2 $$$$$$	36.8	36.8	0.0	0.0
3	$$$$$$	0.0	0.0	0.0	0.0	3 $$$$$$	36.8	36.8	0.0	0.0
4	$$$$$$	0.0	0.0	0.0	0.0	4 $$$$$$	36.8	36.8	0.0	0.0
5	$$$$$$	0.0	0.0	0.0	0.0	5 $$$$$$	36.8	36.8	0.0	0.0
6	$$$$$$	0.0	0.0	0.0	0.0	6 $$$$$$	36.8	36.8	0.0	0.0
7	$$$$$$	0.0	0.0	0.0	0.0	7 $$$$$$	36.8	36.8	0.0	0.0
8	$$$$$$	0.0	0.0	0.0	0.0	8 $$$$$$	36.8	36.8	0.0	0.0
9	$$$$$$	0.0	0.0	0.0	0.0	9 $$$$$$	36.8	36.8	0.0	0.0
10	$$$$$$	0.0	0.0	0.0	0.0	10 $$$$$$	31.9	31.9	0.0	0.0
11	$$$$$$	0.0	0.0	0.0	0.0	11 $$$$$$	31.9	31.9	0.0	0.0
12	$$$$$$	0.0	0.0	0.0	0.0	12 $$$$$$	446.3	446.3	0.0	446.3
13	$$$$$$	0.0	0.0	0.0	0.0	13 $$$$$$	446.3	446.3	0.0	446.3
14	$$$$$$	0.0	0.0	0.0	0.0	14 $$$$$$	493.3	493.3	0.0	493.3
15	$$$$$$	0.0	0.0	0.0	0.0	15 $$$$$$	493.3	493.3	0.0	493.3
16	$$$$$$	0.0	0.0	0.0	0.0	16 $$$$$$	493.3	493.3	0.0	493.3
17	$$$$$$	0.0	0.0	0.0	0.0	17 $$$$$$	493.3	493.3	0.0	493.3

	$$$$$$	0.0	0.0	0.0	0.0	18 $$$$$$	493.3	493.3	0.0	493.3
	$$$$$$	0.0	0.0	0.0	0.0	19 $$$$$$	493.3	493.3	0.0	493.3

crementos de Carga:
3

Subanejo 12

LISTADOS DE DESPLAZAMIENTOS INDIVIDUALES

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
Pvigas

Peso propio vigas

[1: 1]Pvigas

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	-0.0008
2	1.0000	-0.0778	-0.0008
3	1.1750	-0.0913	-0.0008
4	2.3500	-0.1798	-0.0007
5	3.5250	-0.2633	-0.0007
6	4.7000	-0.3396	-0.0006
7	5.8750	-0.4072	-0.0005
8	7.0500	-0.4643	-0.0004
9	8.2250	-0.5099	-0.0003
10	9.4000	-0.5430	-0.0002
11	10.5750	-0.5628	-0.0001
12	11.7500	-0.5691	0.0000
13	12.9250	-0.5616	0.0001
14	14.1000	-0.5406	0.0002
15	15.2750	-0.5063	0.0004
16	16.4500	-0.4595	0.0005
17	17.6250	-0.4012	0.0005
18	18.8000	-0.3331	0.0006
19	19.9750	-0.2573	0.0007
20	21.1500	-0.1752	0.0007
21	22.3250	-0.0888	0.0008
22	22.5000	-0.0757	0.0008
23	23.5000	0.0000	0.0008
1023	23.5000	0.0000	-0.0014
24	24.5000	-0.1405	-0.0014
25	24.9500	-0.2032	-0.0014
26	26.4000	-0.4010	-0.0013
27	27.8500	-0.5887	-0.0013
28	29.3000	-0.7621	-0.0011
29	30.7500	-0.9177	-0.0010
30	32.2000	-1.0509	-0.0008
31	33.6500	-1.1574	-0.0006
32	35.1000	-1.2350	-0.0004
33	36.5500	-1.2823	-0.0002
34	38.0000	-1.2981	0.0000
35	39.4500	-1.2823	0.0002
36	40.9000	-1.2350	0.0004
37	42.3500	-1.1574	0.0006
38	43.8000	-1.0509	0.0008
39	45.2500	-0.9177	0.0010
40	46.7000	-0.7621	0.0011
41	48.1500	-0.5887	0.0013
42	49.6000	-0.4010	0.0013
43	51.0500	-0.2032	0.0014
44	51.5000	-0.1405	0.0014
45	52.5000	0.0000	0.0014
1045	52.5000	0.0000	-0.0014
46	53.5000	-0.1405	-0.0014
47	53.9500	-0.2032	-0.0014
48	55.4000	-0.4010	-0.0013
49	56.8500	-0.5887	-0.0013
50	58.3000	-0.7621	-0.0011
51	59.7500	-0.9177	-0.0010

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
Pvigas

Peso propio vigas

[1: 1]Pvigas

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-1.0509	-0.0008
53	62.6500	-1.1574	-0.0006
54	64.1000	-1.2350	-0.0004
55	65.5500	-1.2823	-0.0002
56	67.0000	-1.2981	0.0000
57	68.4500	-1.2822	0.0002
58	69.9000	-1.2350	0.0004
59	71.3500	-1.1574	0.0006
60	72.8000	-1.0509	0.0008
61	74.2500	-0.9177	0.0010
62	75.7000	-0.7621	0.0011
63	77.1500	-0.5887	0.0013
64	78.6000	-0.4010	0.0013
65	80.0500	-0.2032	0.0014
66	80.5000	-0.1405	0.0014
67	81.5000	0.0000	0.0014
1067	81.5000	0.0000	-0.0018
68	82.5000	-0.1798	-0.0018
69	83.0750	-0.2824	-0.0018
70	84.6500	-0.5573	-0.0017
71	86.2250	-0.8182	-0.0016
72	87.8000	-1.0593	-0.0015
73	89.3750	-1.2756	-0.0013
74	90.9500	-1.4607	-0.0011
75	92.5250	-1.6088	-0.0008
76	94.1000	-1.7168	-0.0006
77	95.6750	-1.7824	-0.0003
78	97.2500	-1.8045	0.0000
79	98.8250	-1.7824	0.0003
80	100.4000	-1.7168	0.0006
81	101.9750	-1.6088	0.0008
82	103.5500	-1.4607	0.0011
83	105.1250	-1.2756	0.0013
84	106.7000	-1.0593	0.0015
85	108.2750	-0.8182	0.0016
86	109.8500	-0.5573	0.0017
87	111.4250	-0.2824	0.0018
88	112.0000	-0.1798	0.0018
89	113.0000	0.0000	0.0018
1089	113.0000	0.0000	-0.0018
90	114.0000	-0.1798	-0.0018
91	114.5750	-0.2824	-0.0018
92	116.1500	-0.5573	-0.0017
93	117.7250	-0.8182	-0.0016
94	119.3000	-1.0593	-0.0015
95	120.8750	-1.2756	-0.0013
96	122.4500	-1.4607	-0.0011
97	124.0250	-1.6088	-0.0008
98	125.6000	-1.7168	-0.0006
99	127.1750	-1.7824	-0.0003
100	128.7500	-1.8045	0.0000
101	130.3250	-1.7824	0.0003
102	131.9000	-1.7168	0.0006

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
Pvigas

Peso propio vigas

[1: 1]Pvigas

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-1.6088	0.0008
104	135.0500	-1.4607	0.0011
105	136.6250	-1.2756	0.0013
106	138.2000	-1.0593	0.0015
107	139.7750	-0.8182	0.0016
108	141.3500	-0.5573	0.0017
109	142.9250	-0.2824	0.0018
110	143.5000	-0.1798	0.0018
111	144.5000	0.0000	0.0018
1111	144.5000	0.0000	-0.0008
112	145.5000	-0.0757	-0.0008
113	145.6750	-0.0888	-0.0008
114	146.8500	-0.1752	-0.0007
115	148.0250	-0.2573	-0.0007
116	149.2000	-0.3331	-0.0006
117	150.3750	-0.4012	-0.0005
118	151.5500	-0.4595	-0.0005
119	152.7250	-0.5063	-0.0004
120	153.9000	-0.5406	-0.0002
121	155.0750	-0.5616	-0.0001
122	156.2500	-0.5691	0.0000
123	157.4250	-0.5628	0.0001
124	158.6000	-0.5430	0.0002
125	159.7750	-0.5099	0.0003
126	160.9500	-0.4643	0.0004
127	162.1250	-0.4072	0.0005
128	163.3000	-0.3396	0.0006
129	164.4750	-0.2633	0.0007
130	165.6500	-0.1798	0.0007
131	166.8250	-0.0913	0.0008
132	167.0000	-0.0778	0.0008
133	168.0000	0.0000	0.0008

Programa DINTEL IDEAM S.A.
fase1.TOT.To

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase1.TOT.To

Pretensado Total (t=0)

[1; 1]fase1.FAM1.TOT + [1; 1]fase1.FAM2.TOT + [1; 1]fase1.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	2.4498	0.0018
53	62.6500	2.6730	0.0013
54	64.1000	2.8324	0.0009
55	65.5500	2.9281	0.0004
56	67.0000	2.9600	0.0000
57	68.4500	2.9281	-0.0004
58	69.9000	2.8324	-0.0009
59	71.3500	2.6730	-0.0013
60	72.8000	2.4497	-0.0018
61	74.2500	2.1614	-0.0022
62	75.7000	1.8101	-0.0026
63	77.1500	1.4077	-0.0029
64	78.6000	0.9631	-0.0032
65	80.0500	0.4884	-0.0033
66	80.5000	0.3374	-0.0034
67	81.5000	0.0000	-0.0034
1067	81.5000	0.0000	0.0046
68	82.5000	0.4594	0.0046
69	83.0750	0.7218	0.0045
70	84.6500	1.4228	0.0044
71	86.2250	2.0810	0.0040
72	87.8000	2.6794	0.0036
73	89.3750	3.2033	0.0030
74	90.9500	3.6334	0.0024
75	92.5250	3.9665	0.0018
76	94.1000	4.2044	0.0012
77	95.6750	4.3472	0.0006
78	97.2500	4.3948	0.0000
79	98.8250	4.3472	-0.0006
80	100.4000	4.2044	-0.0012
81	101.9750	3.9665	-0.0018
82	103.5500	3.6334	-0.0024
83	105.1250	3.2033	-0.0030
84	106.7000	2.6794	-0.0036
85	108.2750	2.0810	-0.0040
86	109.8500	1.4228	-0.0044
87	111.4250	0.7218	-0.0045
88	112.0000	0.4593	-0.0046
89	113.0000	0.0000	-0.0046
1089	113.0000	0.0000	0.0046
90	114.0000	0.4595	0.0046
91	114.5750	0.7218	0.0045
92	116.1500	1.4228	0.0044
93	117.7250	2.0810	0.0040
94	119.3000	2.6794	0.0036
95	120.8750	3.2033	0.0030
96	122.4500	3.6334	0.0024
97	124.0250	3.9665	0.0018
98	125.6000	4.2045	0.0012
99	127.1750	4.3472	0.0006
100	128.7500	4.3948	0.0000
101	130.3250	4.3472	-0.0006
102	131.9000	4.2045	-0.0012

Programa DINTEL IDEAM S.A.
fase1.TOT.To

28/09/01

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase1.TOT.To

Pretensado Total (t=0)

[1; 1]fase1.FAM1.TOT + [1; 1]fase1.FAM2.TOT + [1; 1]fase1.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	3.9665	-0.0018
104	135.0500	3.6334	-0.0024
105	136.6250	3.2033	-0.0030
106	138.2000	2.6794	-0.0036
107	139.7750	2.0810	-0.0040
108	141.3500	1.4228	-0.0044
109	142.9250	0.7218	-0.0045
110	143.5000	0.4593	-0.0046
111	144.5000	0.0000	-0.0046
1111	144.5000	0.0000	0.0018
112	145.5000	0.1832	0.0018
113	145.6750	0.2151	0.0018
114	146.8500	0.4239	0.0017
115	148.0250	0.6147	0.0015
116	149.2000	0.7804	0.0013
117	150.3750	0.9219	0.0011
118	151.5500	1.0378	0.0009
119	152.7250	1.1276	0.0007
120	153.9000	1.1916	0.0005
121	155.0750	1.2302	0.0002
122	156.2500	1.2431	0.0000
123	157.4250	1.2305	-0.0002
124	158.6000	1.1922	-0.0004
125	159.7750	1.1284	-0.0007
126	160.9500	1.0390	-0.0009
127	162.1250	0.9240	-0.0011
128	163.3000	0.7835	-0.0013
129	164.4750	0.6174	-0.0015
130	165.6500	0.4255	-0.0017
131	166.8250	0.2160	-0.0018
132	167.0000	0.1839	-0.0018
133	168.0000	0.0000	-0.0018

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase1.TOT.Tinf

Pretensado Total (t=INF)

Coef. exc: [1; 1]fase1.FAM1.TOT + [1; 1]fase1.FAM2.TOT + [1; 1]fase1.FAM3.TOT +

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0018
2	1.0000	0.1839	0.0018
3	1.1750	0.2160	0.0018
4	2.3500	0.4255	0.0017
5	3.5250	0.6174	0.0015
6	4.7000	0.7835	0.0013
7	5.8750	0.9240	0.0011
8	7.0500	1.0390	0.0009
9	8.2250	1.1284	0.0007
10	9.4000	1.1922	0.0004
11	10.5750	1.2305	0.0002
12	11.7500	1.2431	0.0000
13	12.9250	1.2302	-0.0002
14	14.1000	1.1916	-0.0005
15	15.2750	1.1276	-0.0007
16	16.4500	1.0378	-0.0009
17	17.6250	0.9219	-0.0011
18	18.8000	0.7804	-0.0013
19	19.9750	0.6147	-0.0015
20	21.1500	0.4239	-0.0017
21	22.3250	0.2151	-0.0018
22	22.5000	0.1832	-0.0018
23	23.5000	0.0000	-0.0018
1023	23.5000	0.0000	0.0034
24	24.5000	0.3374	0.0034
25	24.9500	0.4884	0.0033
26	26.4000	0.9631	0.0032
27	27.8500	1.4077	0.0029
28	29.3000	1.8101	0.0026
29	30.7500	2.1614	0.0022
30	32.2000	2.4498	0.0018
31	33.6500	2.6730	0.0013
32	35.1000	2.8324	0.0009
33	36.5500	2.9281	0.0004
34	38.0000	2.9600	0.0000
35	39.4500	2.9281	-0.0004
36	40.9000	2.8324	-0.0009
37	42.3500	2.6730	-0.0013
38	43.8000	2.4498	-0.0018
39	45.2500	2.1614	-0.0022
40	46.7000	1.8101	-0.0026
41	48.1500	1.4077	-0.0029
42	49.6000	0.9631	-0.0032
43	51.0500	0.4884	-0.0033
44	51.5000	0.3374	-0.0034
45	52.5000	0.0000	-0.0034
1045	52.5000	0.0000	0.0034
46	53.5000	0.3374	0.0034
47	53.9500	0.4884	0.0033
48	55.4000	0.9631	0.0032
49	56.8500	1.4077	0.0029
50	58.3000	1.8101	0.0026
51	59.7500	2.1614	0.0022

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase1.TOT.Tinf

Pretensado Total (t=INF)

Coef. exc: [1; 1]fase1.FAM1.TOT + [1; 1]fase1.FAM2.TOT + [1; 1]fase1.FAM3.TOT +

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	2.4498	0.0018
53	62.6500	2.6730	0.0013
54	64.1000	2.8324	0.0009
55	65.5500	2.9281	0.0004
56	67.0000	2.9600	0.0000
57	68.4500	2.9281	-0.0004
58	69.9000	2.8324	-0.0009
59	71.3500	2.6730	-0.0013
60	72.8000	2.4497	-0.0018
61	74.2500	2.1614	-0.0022
62	75.7000	1.8101	-0.0026
63	77.1500	1.4077	-0.0029
64	78.6000	0.9631	-0.0032
65	80.0500	0.4884	-0.0033
66	80.5000	0.3374	-0.0034
67	81.5000	0.0000	-0.0034
1067	81.5000	0.0000	0.0046
68	82.5000	0.4594	0.0046
69	83.0750	0.7218	0.0045
70	84.6500	1.4228	0.0044
71	86.2250	2.0810	0.0040
72	87.8000	2.6794	0.0036
73	89.3750	3.2033	0.0030
74	90.9500	3.6334	0.0024
75	92.5250	3.9665	0.0018
76	94.1000	4.2044	0.0012
77	95.6750	4.3472	0.0006
78	97.2500	4.3948	0.0000
79	98.8250	4.3472	-0.0006
80	100.4000	4.2044	-0.0012
81	101.9750	3.9665	-0.0018
82	103.5500	3.6334	-0.0024
83	105.1250	3.2033	-0.0030
84	106.7000	2.6794	-0.0036
85	108.2750	2.0810	-0.0040
86	109.8500	1.4228	-0.0044
87	111.4250	0.7218	-0.0045
88	112.0000	0.4593	-0.0046
89	113.0000	0.0000	-0.0046
1089	113.0000	0.0000	0.0046
90	114.0000	0.4595	0.0046
91	114.5750	0.7218	0.0045
92	116.1500	1.4228	0.0044
93	117.7250	2.0810	0.0040
94	119.3000	2.6794	0.0036
95	120.8750	3.2033	0.0030
96	122.4500	3.6334	0.0024
97	124.0250	3.9665	0.0018
98	125.6000	4.2045	0.0012
99	127.1750	4.3472	0.0006
100	128.7500	4.3948	0.0000
101	130.3250	4.3472	-0.0006
102	131.9000	4.2045	-0.0012

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase1.TOT.Tinf

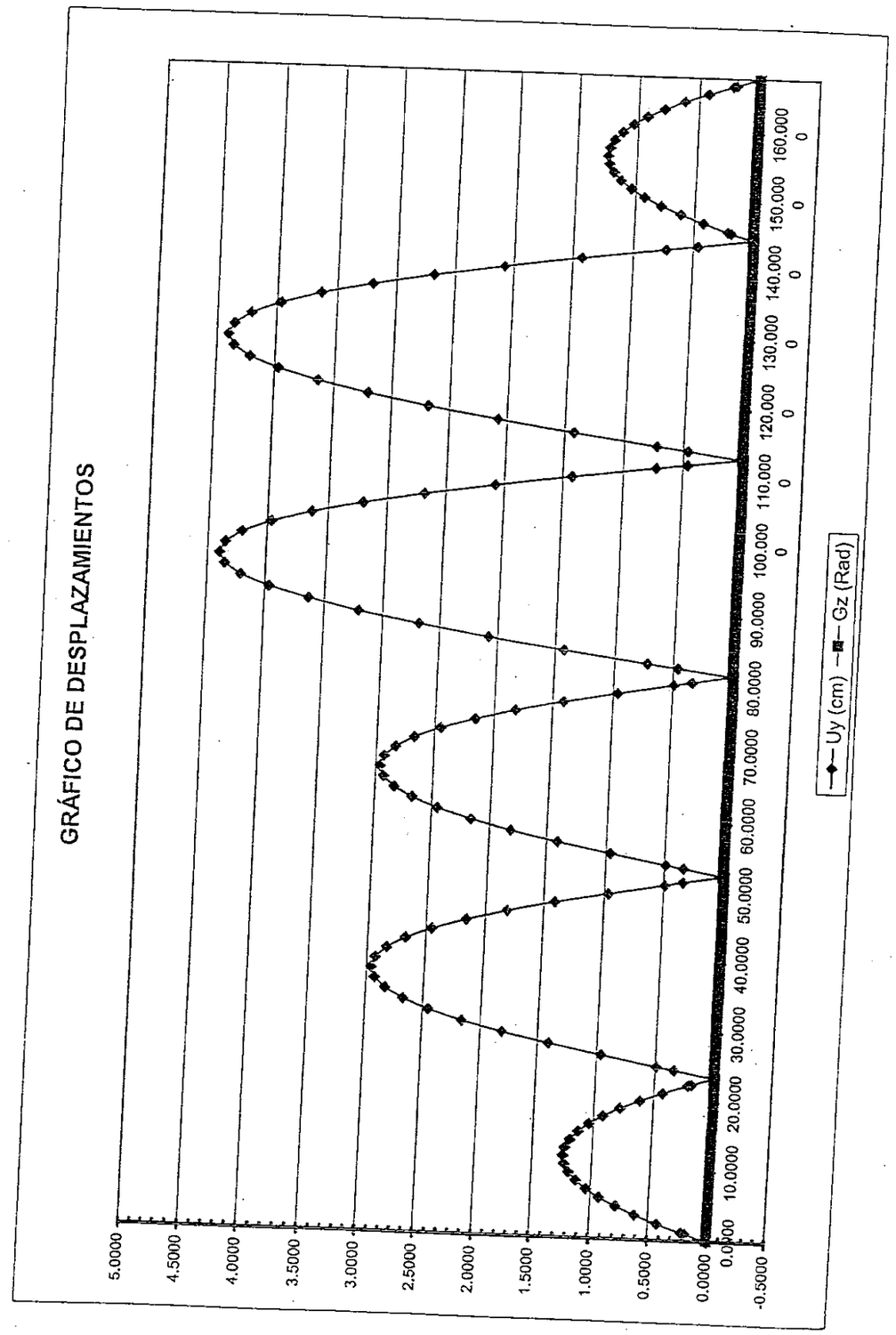
Pretensado Total (t=INF)

[1; 1]fase1.FAM1.TOT + [1; 1]fase1.FAM2.TOT + [1; 1]fase1.FAM3.TOT +

Coef. exc:

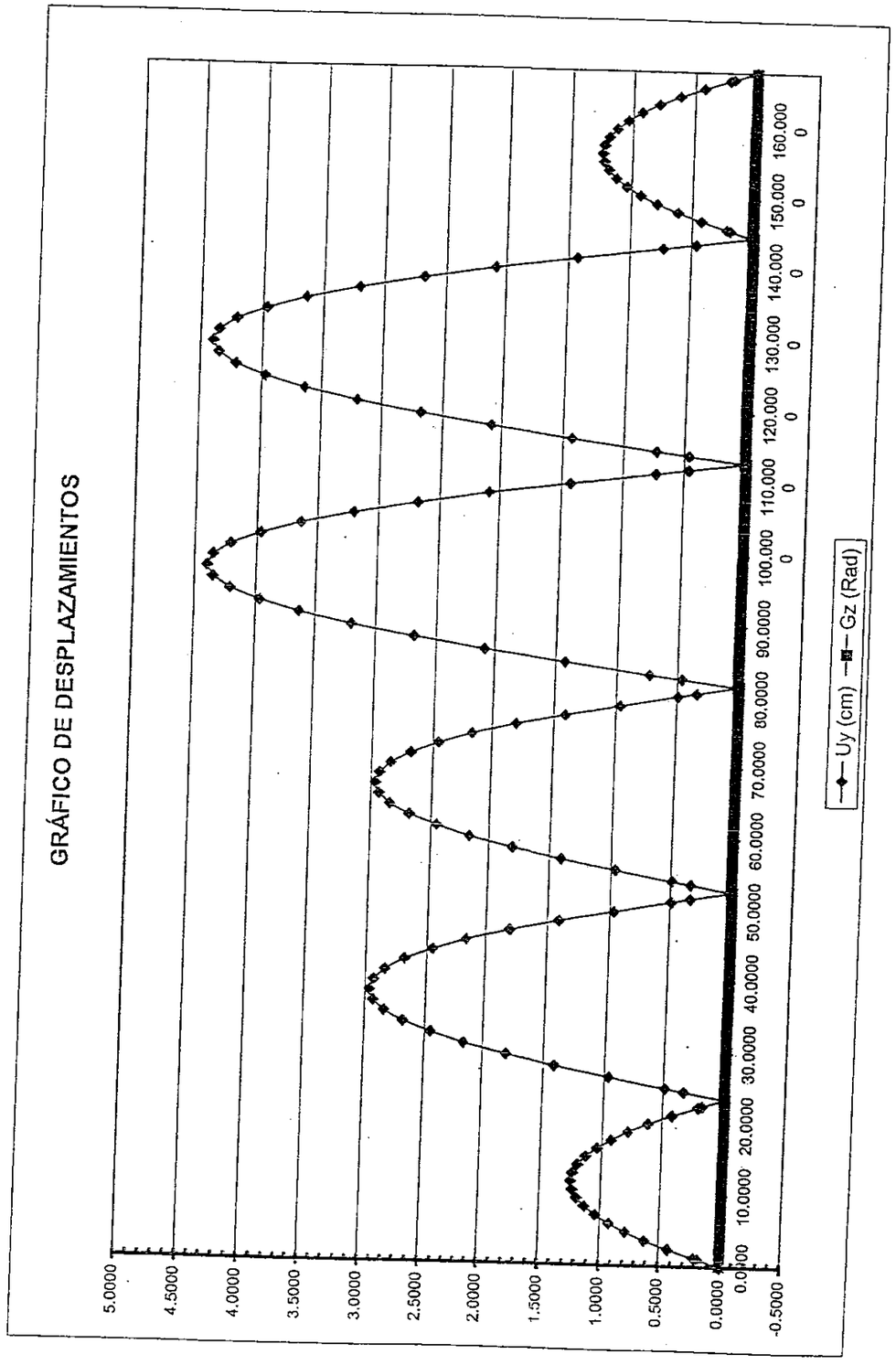
Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	3.9665	-0.0018
104	135.0500	3.6334	-0.0024
105	136.6250	3.2033	-0.0030
106	138.2000	2.6794	-0.0036
107	139.7750	2.0810	-0.0040
108	141.3500	1.4228	-0.0044
109	142.9250	0.7218	-0.0045
110	143.5000	0.4593	-0.0046
111	144.5000	0.0000	-0.0046
1111	144.5000	0.0000	0.0018
112	145.5000	0.1832	0.0018
113	145.6750	0.2151	0.0018
114	146.8500	0.4239	0.0017
115	148.0250	0.6147	0.0015
116	149.2000	0.7804	0.0013
117	150.3750	0.9219	0.0011
118	151.5500	1.0378	0.0009
119	152.7250	1.1276	0.0007
120	153.9000	1.1916	0.0005
121	155.0750	1.2302	0.0002
122	156.2500	1.2431	0.0000
123	157.4250	1.2305	-0.0002
124	158.6000	1.1922	-0.0004
125	159.7750	1.1284	-0.0007
126	160.9500	1.0390	-0.0009
127	162.1250	0.9240	-0.0011
128	163.3000	0.7835	-0.0013
129	164.4750	0.6174	-0.0015
130	165.6500	0.4255	-0.0017
131	166.8250	0.2160	-0.0018
132	167.0000	0.1839	-0.0018
133	168.0000	0.0000	-0.0018

Programa DINTEL IDEAM S.A.
fase1.TOT.To



Programa DINTEL IDEAM S.A.
fase1.TOT.Tinf

GRÁFICO DE DESPLAZAMIENTOS



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
Prelosas

Peso propio prelosas

[1; 1]Prelosas

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	-0.0002
2	1.0000	-0.0222	-0.0002
3	1.1750	-0.0260	-0.0002
4	2.3500	-0.0513	-0.0002
5	3.5250	-0.0751	-0.0002
6	4.7000	-0.0970	-0.0002
7	5.8750	-0.1163	-0.0002
8	7.0500	-0.1327	-0.0001
9	8.2250	-0.1457	-0.0001
10	9.4000	-0.1552	-0.0001
11	10.5750	-0.1609	0.0000
12	11.7500	-0.1627	0.0000
13	12.9250	-0.1606	0.0000
14	14.1000	-0.1546	0.0001
15	15.2750	-0.1447	0.0001
16	16.4500	-0.1313	0.0001
17	17.6250	-0.1146	0.0002
18	18.8000	-0.0952	0.0002
19	19.9750	-0.0735	0.0002
20	21.1500	-0.0500	0.0002
21	22.3250	-0.0253	0.0002
22	22.5000	-0.0216	0.0002
23	23.5000	0.0000	0.0002
1023	23.5000	0.0000	-0.0004
24	24.5000	-0.0404	-0.0004
25	24.9500	-0.0584	-0.0004
26	26.4000	-0.1153	-0.0004
27	27.8500	-0.1692	-0.0004
28	29.3000	-0.2192	-0.0003
29	30.7500	-0.2640	-0.0003
30	32.2000	-0.3023	-0.0002
31	33.6500	-0.3330	-0.0002
32	35.1000	-0.3554	-0.0001
33	36.5500	-0.3690	-0.0001
34	38.0000	-0.3736	0.0000
35	39.4500	-0.3690	0.0001
36	40.9000	-0.3554	0.0001
37	42.3500	-0.3330	0.0002
38	43.8000	-0.3023	0.0002
39	45.2500	-0.2640	0.0003
40	46.7000	-0.2192	0.0003
41	48.1500	-0.1692	0.0004
42	49.6000	-0.1153	0.0004
43	51.0500	-0.0584	0.0004
44	51.5000	-0.0404	0.0004
45	52.5000	0.0000	0.0004
1045	52.5000	0.0000	-0.0004
46	53.5000	-0.0404	-0.0004
47	53.9500	-0.0584	-0.0004
48	55.4000	-0.1153	-0.0004
49	56.8500	-0.1692	-0.0004
50	58.3000	-0.2192	-0.0003
51	59.7500	-0.2640	-0.0003

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
Prelosas

Peso propio prelosas

[1; 1]Prelosas

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.3023	-0.0002
53	62.6500	-0.3330	-0.0002
54	64.1000	-0.3554	-0.0001
55	65.5500	-0.3690	-0.0001
56	67.0000	-0.3736	0.0000
57	68.4500	-0.3690	0.0001
58	69.9000	-0.3554	0.0001
59	71.3500	-0.3330	0.0002
60	72.8000	-0.3023	0.0002
61	74.2500	-0.2640	0.0003
62	75.7000	-0.2192	0.0003
63	77.1500	-0.1692	0.0004
64	78.6000	-0.1153	0.0004
65	80.0500	-0.0584	0.0004
66	80.5000	-0.0404	0.0004
67	81.5000	0.0000	0.0004
1067	81.5000	0.0000	-0.0005
68	82.5000	-0.0517	-0.0005
69	83.0750	-0.0813	-0.0005
70	84.6500	-0.1604	-0.0005
71	86.2250	-0.2356	-0.0005
72	87.8000	-0.3051	-0.0004
73	89.3750	-0.3674	-0.0004
74	90.9500	-0.4208	-0.0003
75	92.5250	-0.4635	-0.0002
76	94.1000	-0.4947	-0.0002
77	95.6750	-0.5136	-0.0001
78	97.2500	-0.5200	0.0000
79	98.8250	-0.5136	0.0001
80	100.4000	-0.4947	0.0002
81	101.9750	-0.4635	0.0002
82	103.5500	-0.4208	0.0003
83	105.1250	-0.3674	0.0004
84	106.7000	-0.3051	0.0004
85	108.2750	-0.2356	0.0005
86	109.8500	-0.1604	0.0005
87	111.4250	-0.0813	0.0005
88	112.0000	-0.0517	0.0005
89	113.0000	0.0000	0.0005
1089	113.0000	0.0000	-0.0005
90	114.0000	-0.0517	-0.0005
91	114.5750	-0.0813	-0.0005
92	116.1500	-0.1604	-0.0005
93	117.7250	-0.2356	-0.0005
94	119.3000	-0.3051	-0.0004
95	120.8750	-0.3674	-0.0004
96	122.4500	-0.4208	-0.0003
97	124.0250	-0.4635	-0.0002
98	125.6000	-0.4947	-0.0002
99	127.1750	-0.5136	-0.0001
100	128.7500	-0.5200	0.0000
101	130.3250	-0.5136	0.0001
102	131.9000	-0.4947	0.0002

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
Prelosas

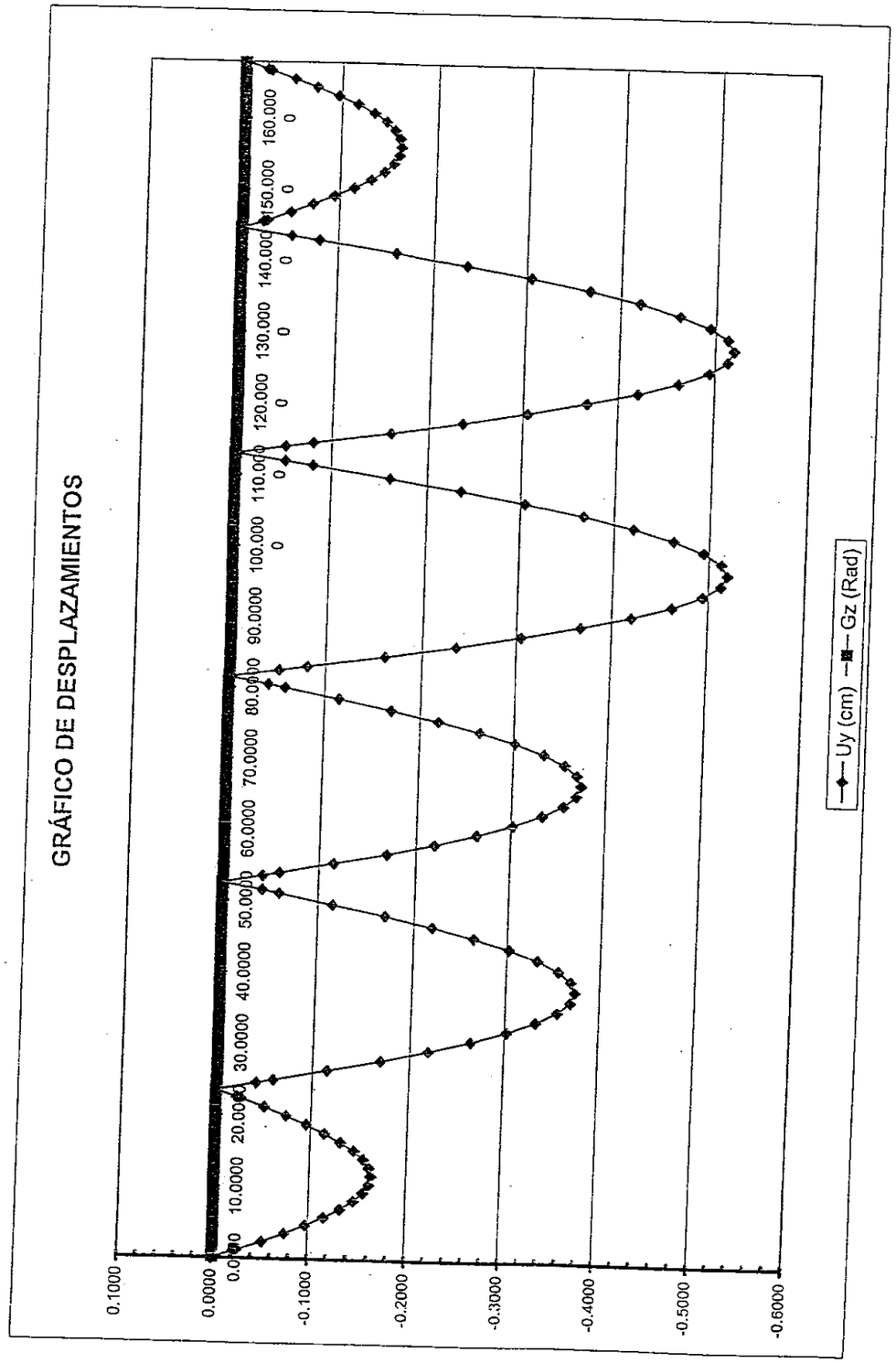
Peso propio prelosas

[1; 1]Prelosas

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.4635	0.0002
104	135.0500	-0.4208	0.0003
105	136.6250	-0.3674	0.0004
106	138.2000	-0.3051	0.0004
107	139.7750	-0.2356	0.0005
108	141.3500	-0.1604	0.0005
109	142.9250	-0.0813	0.0005
110	143.5000	-0.0517	0.0005
111	144.5000	0.0000	0.0005
1111	144.5000	0.0000	-0.0002
112	145.5000	-0.0216	-0.0002
113	145.6750	-0.0253	-0.0002
114	146.8500	-0.0500	-0.0002
115	148.0250	-0.0735	-0.0002
116	149.2000	-0.0952	-0.0002
117	150.3750	-0.1146	-0.0002
118	151.5500	-0.1313	-0.0001
119	152.7250	-0.1447	-0.0001
120	153.9000	-0.1546	-0.0001
121	155.0750	-0.1606	0.0000
122	156.2500	-0.1627	0.0000
123	157.4250	-0.1609	0.0000
124	158.6000	-0.1552	0.0001
125	159.7750	-0.1457	0.0001
126	160.9500	-0.1327	0.0001
127	162.1250	-0.1163	0.0002
128	163.3000	-0.0970	0.0002
129	164.4750	-0.0751	0.0002
130	165.6500	-0.0513	0.0002
131	166.8250	-0.0260	0.0002
132	167.0000	-0.0222	0.0002
133	168.0000	0.0000	0.0002

Programa DINTEL IDEAM S.A.
Prelosas



Programa DINTEL IDEAM S.A.
HBCV

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
HBCV

Hormigonado BC vanos

[1; 1]HBCV

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	-0.0007
2	1.0000	-0.0650	-0.0007
3	1.1750	-0.0763	-0.0006
4	2.3500	-0.1503	-0.0006
5	3.5250	-0.2201	-0.0006
6	4.7000	-0.2839	-0.0005
7	5.8750	-0.3403	-0.0004
8	7.0500	-0.3878	-0.0004
9	8.2250	-0.4255	-0.0003
10	9.4000	-0.4526	-0.0002
11	10.5750	-0.4686	-0.0001
12	11.7500	-0.4730	0.0000
13	12.9250	-0.4660	0.0001
14	14.1000	-0.4475	0.0002
15	15.2750	-0.4182	0.0003
16	16.4500	-0.3785	0.0004
17	17.6250	-0.3295	0.0005
18	18.8000	-0.2727	0.0005
19	19.9750	-0.2099	0.0006
20	21.1500	-0.1425	0.0006
21	22.3250	-0.0720	0.0006
22	22.5000	-0.0613	0.0006
23	23.5000	0.0000	0.0006
1023	23.5000	0.0000	-0.0011
24	24.5000	-0.1091	-0.0011
25	24.9500	-0.1578	-0.0011
26	26.4000	-0.3122	-0.0011
27	27.8500	-0.4598	-0.0010
28	29.3000	-0.5970	-0.0009
29	30.7500	-0.7207	-0.0008
30	32.2000	-0.8270	-0.0007
31	33.6500	-0.9123	-0.0005
32	35.1000	-0.9746	-0.0004
33	36.5500	-1.0125	-0.0002
34	38.0000	-1.0253	0.0000
35	39.4500	-1.0125	0.0002
36	40.9000	-0.9746	0.0004
37	42.3500	-0.9123	0.0005
38	43.8000	-0.8270	0.0007
39	45.2500	-0.7207	0.0008
40	46.7000	-0.5970	0.0009
41	48.1500	-0.4598	0.0010
42	49.6000	-0.3122	0.0011
43	51.0500	-0.1578	0.0011
44	51.5000	-0.1091	0.0011
45	52.5000	0.0000	0.0011
1045	52.5000	0.0000	-0.0011
46	53.5000	-0.1091	-0.0011
47	53.9500	-0.1578	-0.0011
48	55.4000	-0.3122	-0.0011
49	56.8500	-0.4598	-0.0010
50	58.3000	-0.5969	-0.0009
51	59.7500	-0.7207	-0.0008

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
HBCV

Hormigonado BC vanos

[1; 1]HBCV

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.8270	-0.0007
53	62.6500	-0.9122	-0.0005
54	64.1000	-0.9746	-0.0004
55	65.5500	-1.0125	-0.0002
56	67.0000	-1.0253	0.0000
57	68.4500	-1.0125	0.0002
58	69.9000	-0.9746	0.0004
59	71.3500	-0.9122	0.0005
60	72.8000	-0.8269	0.0007
61	74.2500	-0.7206	0.0008
62	75.7000	-0.5969	0.0009
63	77.1500	-0.4598	0.0010
64	78.6000	-0.3122	0.0011
65	80.0500	-0.1578	0.0011
66	80.5000	-0.1091	0.0011
67	81.5000	0.0000	0.0011
1067	81.5000	0.0000	-0.0014
68	82.5000	-0.1398	-0.0014
69	83.0750	-0.2197	-0.0014
70	84.6500	-0.4346	-0.0013
71	86.2250	-0.6400	-0.0013
72	87.8000	-0.8310	-0.0012
73	89.3750	-1.0031	-0.0010
74	90.9500	-1.1511	-0.0009
75	92.5250	-1.2699	-0.0007
76	94.1000	-1.3566	-0.0004
77	95.6750	-1.4095	-0.0002
78	97.2500	-1.4272	0.0000
79	98.8250	-1.4095	0.0002
80	100.4000	-1.3566	0.0004
81	101.9750	-1.2699	0.0007
82	103.5500	-1.1511	0.0009
83	105.1250	-1.0032	0.0010
84	106.7000	-0.8310	0.0012
85	108.2750	-0.6400	0.0013
86	109.8500	-0.4346	0.0013
87	111.4250	-0.2197	0.0014
88	112.0000	-0.1398	0.0014
89	113.0000	0.0000	0.0014
1089	113.0000	0.0000	-0.0014
90	114.0000	-0.1398	-0.0014
91	114.5750	-0.2197	-0.0014
92	116.1500	-0.4347	-0.0013
93	117.7250	-0.6400	-0.0013
94	119.3000	-0.8310	-0.0012
95	120.8750	-1.0032	-0.0010
96	122.4500	-1.1511	-0.0009
97	124.0250	-1.2699	-0.0007
98	125.6000	-1.3566	-0.0004
99	127.1750	-1.4095	-0.0002
100	128.7500	-1.4272	0.0000
101	130.3250	-1.4095	0.0002
102	131.9000	-1.3566	0.0004

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
HBCV

Hormigonado BC vanos

[1; 1]HBCV

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-1.2699	0.0007
104	135.0500	-1.1511	0.0009
105	136.6250	-1.0032	0.0010
106	138.2000	-0.8310	0.0012
107	139.7750	-0.6400	0.0013
108	141.3500	-0.4347	0.0013
109	142.9250	-0.2197	0.0014
110	143.5000	-0.1398	0.0014
111	144.5000	0.0000	0.0014
1111	144.5000	0.0000	-0.0006
112	145.5000	-0.0613	-0.0006
113	145.6750	-0.0720	-0.0006
114	146.8500	-0.1425	-0.0006
115	148.0250	-0.2099	-0.0006
116	149.2000	-0.2727	-0.0005
117	150.3750	-0.3295	-0.0005
118	151.5500	-0.3785	-0.0004
119	152.7250	-0.4182	-0.0003
120	153.9000	-0.4475	-0.0002
121	155.0750	-0.4660	-0.0001
122	156.2500	-0.4730	0.0000
123	157.4250	-0.4686	0.0001
124	158.6000	-0.4526	0.0002
125	159.7750	-0.4255	0.0003
126	160.9500	-0.3878	0.0004
127	162.1250	-0.3403	0.0004
128	163.3000	-0.2839	0.0005
129	164.4750	-0.2201	0.0006
130	165.6500	-0.1503	0.0006
131	166.8250	-0.0763	0.0006
132	167.0000	-0.0650	0.0007
133	168.0000	0.0000	0.0007

CÁLCULO DE DESPLAZAMIENTOS

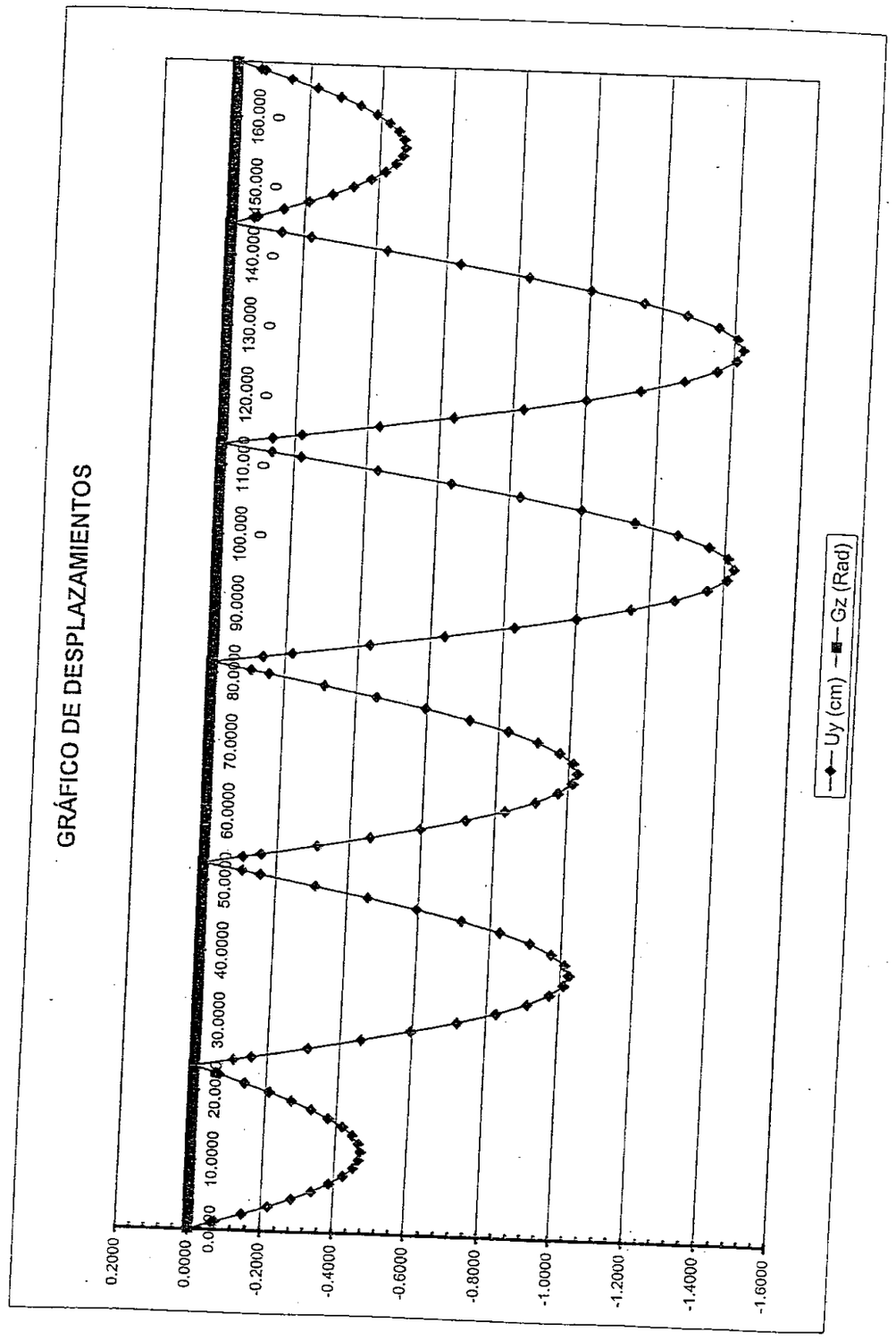
Hipótesis de cálculo:
fase4.TOT.To

Pretensado Total (t=0)

[1; 1]fase4.FAM1.TOT + [1; 1]fase4.FAM2.TOT + [1; 1]fase4.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0035	0.0000
3	1.1750	0.0039	0.0000
4	2.3500	0.0079	0.0000
5	3.5250	0.0117	0.0000
6	4.7000	0.0150	0.0000
7	5.8750	0.0183	0.0000
8	7.0500	0.0216	0.0000
9	8.2250	0.0239	0.0000
10	9.4000	0.0267	0.0000
11	10.5750	0.0283	0.0000
12	11.7500	0.0297	0.0000
13	12.9250	0.0303	0.0000
14	14.1000	0.0304	0.0000
15	15.2750	0.0299	0.0000
16	16.4500	0.0286	0.0000
17	17.6250	0.0263	0.0000
18	18.8000	0.0234	0.0000
19	19.9750	0.0191	0.0000
20	21.1500	0.0133	-0.0001
21	22.3250	0.0047	-0.0001
22	22.5000	0.0032	-0.0001
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0089	0.0002
25	24.9500	0.0157	0.0001
26	26.4000	0.0335	0.0001
27	27.8500	0.0467	0.0001
28	29.3000	0.0562	0.0001
29	30.7500	0.0645	0.0001
30	32.2000	0.0714	0.0001
31	33.6500	0.0763	0.0000
32	35.1000	0.0796	0.0000
33	36.5500	0.0814	0.0000
34	38.0000	0.0814	0.0000
35	39.4500	0.0804	0.0000
36	40.9000	0.0776	0.0000
37	42.3500	0.0732	0.0000
38	43.8000	0.0674	-0.0001
39	45.2500	0.0603	-0.0001
40	46.7000	0.0514	-0.0001
41	48.1500	0.0417	-0.0001
42	49.6000	0.0290	-0.0001
43	51.0500	0.0126	-0.0001
44	51.5000	0.0070	-0.0001
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0058	0.0001
47	53.9500	0.0112	0.0001
48	55.4000	0.0257	0.0001
49	56.8500	0.0367	0.0001
50	58.3000	0.0454	0.0001
51	59.7500	0.0525	0.0001



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase4.TOT.To

Pretensado Total (t=0)

[1; 1]fase4.FAM1.TOT + [1; 1]fase4.FAM2.TOT + [1; 1]fase4.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0035	0.0000
3	1.1750	0.0039	0.0000
4	2.3500	0.0079	0.0000
5	3.5250	0.0117	0.0000
6	4.7000	0.0150	0.0000
7	5.8750	0.0183	0.0000
8	7.0500	0.0216	0.0000
9	8.2250	0.0239	0.0000
10	9.4000	0.0267	0.0000
11	10.5750	0.0283	0.0000
12	11.7500	0.0297	0.0000
13	12.9250	0.0303	0.0000
14	14.1000	0.0304	0.0000
15	15.2750	0.0299	0.0000
16	16.4500	0.0286	0.0000
17	17.6250	0.0263	0.0000
18	18.8000	0.0234	0.0000
19	19.9750	0.0191	0.0000
20	21.1500	0.0133	-0.0001
21	22.3250	0.0047	-0.0001
22	22.5000	0.0032	-0.0001
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0089	0.0002
25	24.9500	0.0157	0.0001
26	26.4000	0.0335	0.0001
27	27.8500	0.0467	0.0001
28	29.3000	0.0562	0.0001
29	30.7500	0.0645	0.0001
30	32.2000	0.0714	0.0001
31	33.6500	0.0763	0.0000
32	35.1000	0.0796	0.0000
33	36.5500	0.0814	0.0000
34	38.0000	0.0814	0.0000
35	39.4500	0.0804	0.0000
36	40.9000	0.0776	0.0000
37	42.3500	0.0732	0.0000
38	43.8000	0.0674	-0.0001
39	45.2500	0.0603	-0.0001
40	46.7000	0.0514	-0.0001
41	48.1500	0.0417	-0.0001
42	49.6000	0.0290	-0.0001
43	51.0500	0.0126	-0.0001
44	51.5000	0.0070	-0.0001
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0058	0.0001
47	53.9500	0.0112	0.0001
48	55.4000	0.0257	0.0001
49	56.8500	0.0367	0.0001
50	58.3000	0.0454	0.0001
51	59.7500	0.0525	0.0001

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase4.TOT.To

Pretensado Total (t=0)

[1; 1]fase4.FAM1.TOT + [1; 1]fase4.FAM2.TOT + [1; 1]fase4.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.0585	0.0001
53	62.6500	0.0630	0.0000
54	64.1000	0.0663	0.0000
55	65.5500	0.0683	0.0000
56	67.0000	0.0691	0.0000
57	68.4500	0.0684	0.0000
58	69.9000	0.0665	0.0000
59	71.3500	0.0637	0.0000
60	72.8000	0.0585	-0.0001
61	74.2500	0.0527	-0.0001
62	75.7000	0.0457	-0.0001
63	77.1500	0.0371	-0.0001
64	78.6000	0.0260	-0.0001
65	80.0500	0.0110	-0.0001
66	80.5000	0.0059	-0.0001
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	0.0068	0.0001
69	83.0750	0.0139	0.0001
70	84.6500	0.0308	0.0001
71	86.2250	0.0429	0.0001
72	87.8000	0.0527	0.0001
73	89.3750	0.0608	0.0001
74	90.9500	0.0673	0.0001
75	92.5250	0.0722	0.0000
76	94.1000	0.0757	0.0000
77	95.6750	0.0777	0.0000
78	97.2500	0.0780	0.0000
79	98.8250	0.0773	0.0000
80	100.4000	0.0746	0.0000
81	101.9750	0.0711	0.0000
82	103.5500	0.0657	-0.0001
83	105.1250	0.0586	-0.0001
84	106.7000	0.0506	-0.0001
85	108.2750	0.0411	-0.0001
86	109.8500	0.0290	-0.0001
87	111.4250	0.0127	-0.0001
88	112.0000	0.0058	-0.0001
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0071	0.0001
91	114.5750	0.0144	0.0001
92	116.1500	0.0322	0.0001
93	117.7250	0.0458	0.0001
94	119.3000	0.0570	0.0001
95	120.8750	0.0662	0.0001
96	122.4500	0.0743	0.0001
97	124.0250	0.0807	0.0000
98	125.6000	0.0855	0.0000
99	127.1750	0.0888	0.0000
100	128.7500	0.0905	0.0000
101	130.3250	0.0902	0.0000
102	131.9000	0.0883	0.0000

CÁLCULO DE DESPLAZAMIENTOS

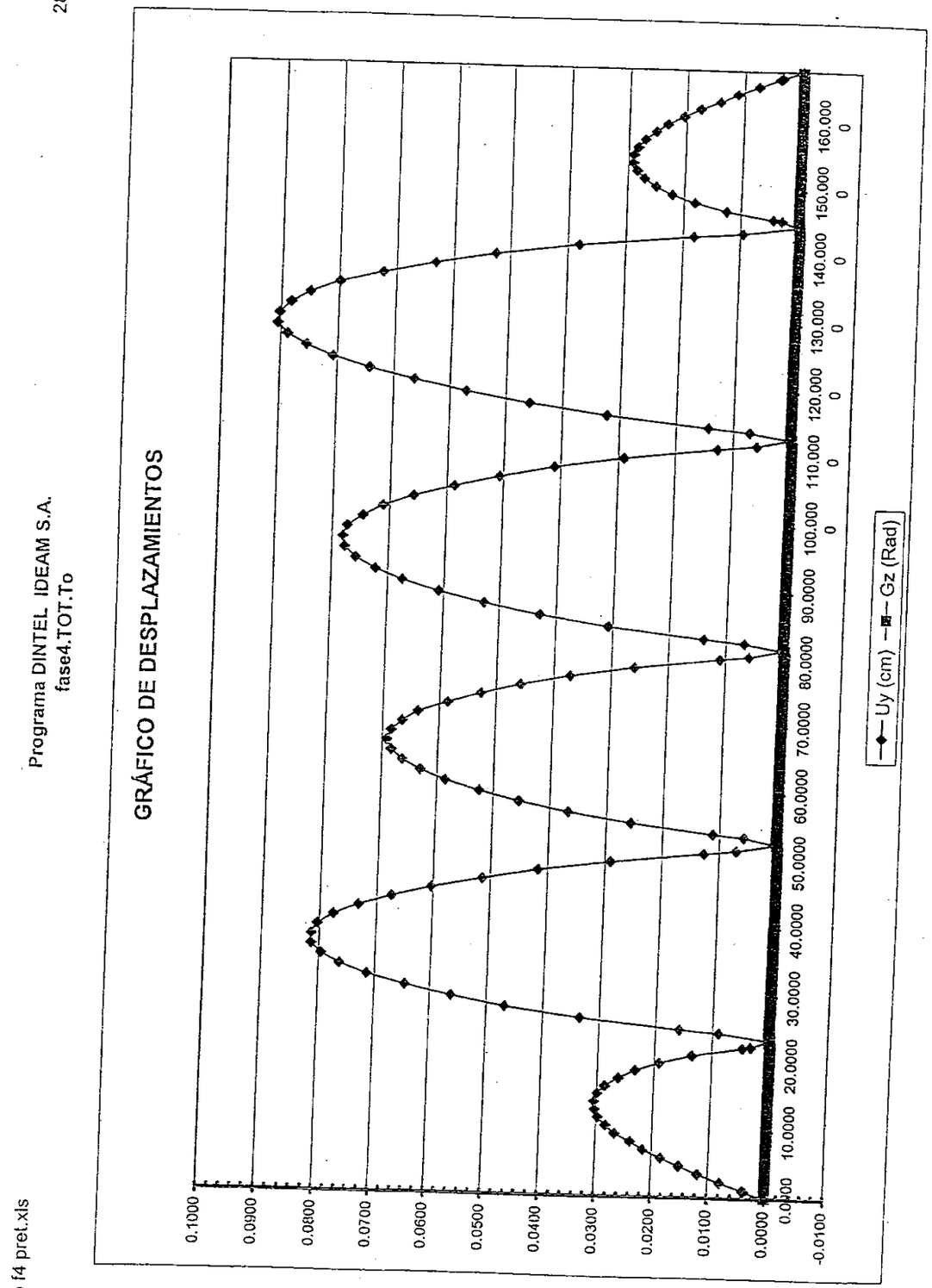
Hipótesis de cálculo:
fase4.TOT.To

Pretensado Total (t=0)

[1; 1]fase4.FAM1.TOT + [1; 1]fase4.FAM2.TOT + [1; 1]fase4.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.0850	0.0000
104	135.0500	0.0798	-0.0001
105	136.6250	0.0723	-0.0001
106	138.2000	0.0631	-0.0001
107	139.7750	0.0525	-0.0001
108	141.3500	0.0380	-0.0001
109	142.9250	0.0181	-0.0002
110	143.5000	0.0095	-0.0002
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0028	0.0001
113	145.6750	0.0042	0.0001
114	146.8500	0.0125	0.0001
115	148.0250	0.0181	0.0000
116	149.2000	0.0221	0.0000
117	150.3750	0.0250	0.0000
118	151.5500	0.0271	0.0000
119	152.7250	0.0284	0.0000
120	153.9000	0.0291	0.0000
121	155.0750	0.0290	0.0000
122	156.2500	0.0283	0.0000
123	157.4250	0.0271	0.0000
124	158.6000	0.0252	0.0000
125	159.7750	0.0232	0.0000
126	160.9500	0.0204	0.0000
127	162.1250	0.0176	0.0000
128	163.3000	0.0142	0.0000
129	164.4750	0.0111	0.0000
130	165.6500	0.0074	0.0000
131	166.8250	0.0037	0.0000
132	167.0000	0.0033	0.0000
133	168.0000	0.0000	0.0000



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase4.TOT.Tinf

Pretensado Total (t=INF)

Coef. exc: [1; 1]fase4.FAM1.TOT + [1; 1]fase4.FAM2.TOT + [1; 1]fase4.FAM3.TOT +

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0035	0.0000
3	1.1750	0.0039	0.0000
4	2.3500	0.0079	0.0000
5	3.5250	0.0117	0.0000
6	4.7000	0.0150	0.0000
7	5.8750	0.0183	0.0000
8	7.0500	0.0216	0.0000
9	8.2250	0.0239	0.0000
10	9.4000	0.0267	0.0000
11	10.5750	0.0283	0.0000
12	11.7500	0.0297	0.0000
13	12.9250	0.0303	0.0000
14	14.1000	0.0304	0.0000
15	15.2750	0.0299	0.0000
16	16.4500	0.0286	0.0000
17	17.6250	0.0263	0.0000
18	18.8000	0.0234	0.0000
19	19.9750	0.0191	0.0000
20	21.1500	0.0133	-0.0001
21	22.3250	0.0047	-0.0001
22	22.5000	0.0032	-0.0001
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0089	0.0002
25	24.9500	0.0157	0.0001
26	26.4000	0.0335	0.0001
27	27.8500	0.0467	0.0001
28	29.3000	0.0562	0.0001
29	30.7500	0.0645	0.0001
30	32.2000	0.0714	0.0001
31	33.6500	0.0763	0.0000
32	35.1000	0.0796	0.0000
33	36.5500	0.0814	0.0000
34	38.0000	0.0814	0.0000
35	39.4500	0.0804	0.0000
36	40.9000	0.0776	0.0000
37	42.3500	0.0732	0.0000
38	43.8000	0.0674	-0.0001
39	45.2500	0.0603	-0.0001
40	46.7000	0.0514	-0.0001
41	48.1500	0.0417	-0.0001
42	49.6000	0.0290	-0.0001
43	51.0500	0.0126	-0.0001
44	51.5000	0.0070	-0.0001
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0058	0.0001
47	53.9500	0.0112	0.0001
48	55.4000	0.0257	0.0001
49	56.8500	0.0367	0.0001
50	58.3000	0.0454	0.0001
51	59.7500	0.0525	0.0001

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase4.TOT.Tinf

Pretensado Total (t=INF)

Coef. exc: [1; 1]fase4.FAM1.TOT + [1; 1]fase4.FAM2.TOT + [1; 1]fase4.FAM3.TOT +

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.0585	0.0001
53	62.6500	0.0630	0.0000
54	64.1000	0.0663	0.0000
55	65.5500	0.0683	0.0000
56	67.0000	0.0691	0.0000
57	68.4500	0.0684	0.0000
58	69.9000	0.0665	0.0000
59	71.3500	0.0637	0.0000
60	72.8000	0.0585	-0.0001
61	74.2500	0.0527	-0.0001
62	75.7000	0.0457	-0.0001
63	77.1500	0.0371	-0.0001
64	78.6000	0.0260	-0.0001
65	80.0500	0.0110	-0.0001
66	80.5000	0.0059	-0.0001
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	0.0068	0.0001
69	83.0750	0.0139	0.0001
70	84.6500	0.0308	0.0001
71	86.2250	0.0429	0.0001
72	87.8000	0.0527	0.0001
73	89.3750	0.0608	0.0001
74	90.9500	0.0673	0.0001
75	92.5250	0.0722	0.0000
76	94.1000	0.0757	0.0000
77	95.6750	0.0777	0.0000
78	97.2500	0.0780	0.0000
79	98.8250	0.0773	0.0000
80	100.4000	0.0746	0.0000
81	101.9750	0.0711	0.0000
82	103.5500	0.0657	-0.0001
83	105.1250	0.0586	-0.0001
84	106.7000	0.0506	-0.0001
85	108.2750	0.0411	-0.0001
86	109.8500	0.0290	-0.0001
87	111.4250	0.0127	-0.0001
88	112.0000	0.0058	-0.0001
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0071	0.0001
91	114.5750	0.0144	0.0001
92	116.1500	0.0322	0.0001
93	117.7250	0.0458	0.0001
94	119.3000	0.0570	0.0001
95	120.8750	0.0662	0.0001
96	122.4500	0.0743	0.0001
97	124.0250	0.0807	0.0000
98	125.6000	0.0855	0.0000
99	127.1750	0.0888	0.0000
100	128.7500	0.0905	0.0000
101	130.3250	0.0902	0.0000
102	131.9000	0.0883	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase4.TOT.Tinf

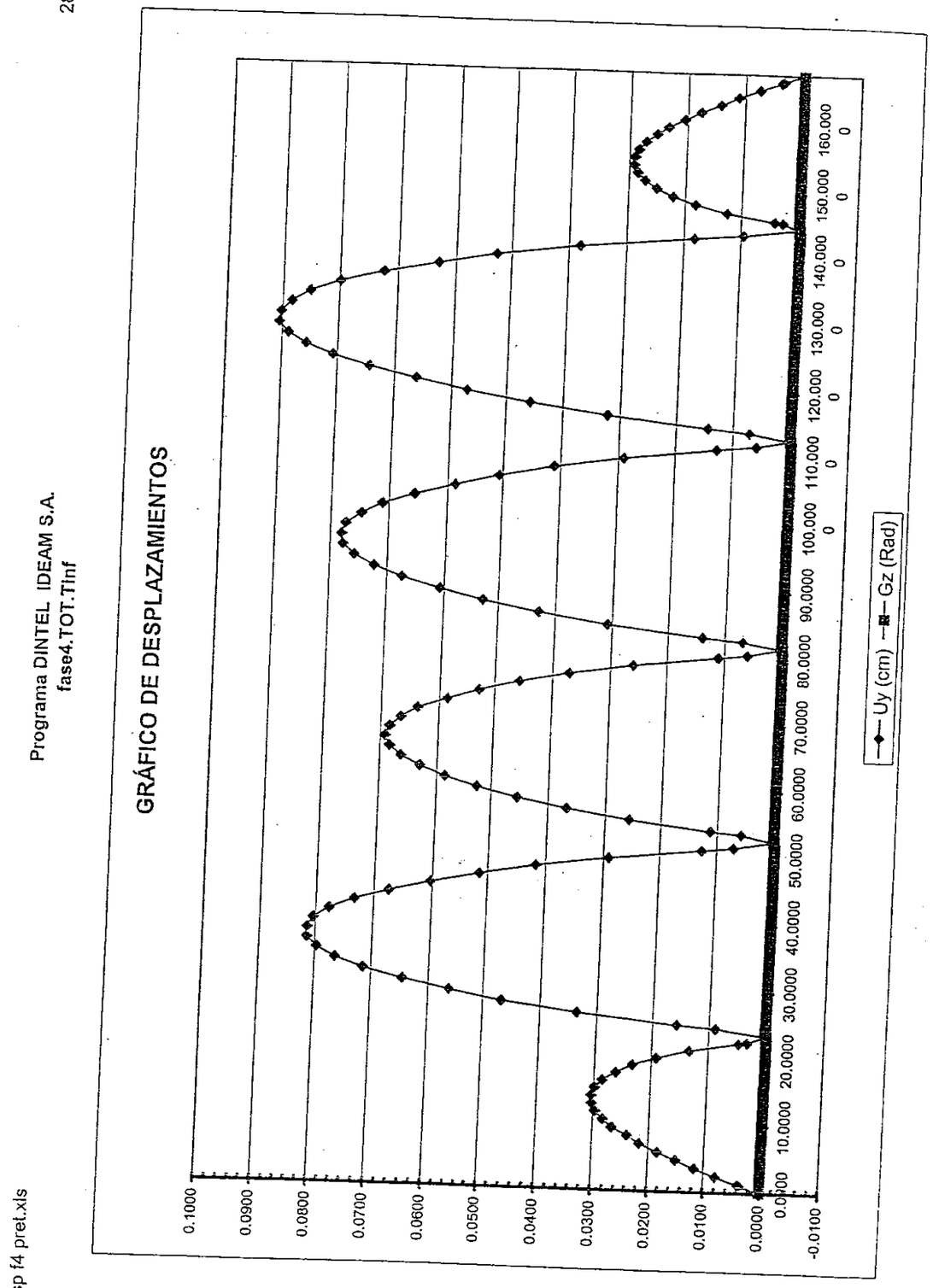
Pretensado Total (t=INF)

[1; 1]fase4.FAM1.TOT + [1; 1]fase4.FAM2.TOT + [1; 1]fase4.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.0850	0.0000
104	135.0500	0.0798	-0.0001
105	136.6250	0.0723	-0.0001
106	138.2000	0.0631	-0.0001
107	139.7750	0.0525	-0.0001
108	141.3500	0.0380	-0.0001
109	142.9250	0.0181	-0.0002
110	143.5000	0.0095	-0.0002
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0028	0.0001
113	145.6750	0.0042	0.0001
114	146.8500	0.0125	0.0001
115	148.0250	0.0181	0.0000
116	149.2000	0.0221	0.0000
117	150.3750	0.0250	0.0000
118	151.5500	0.0271	0.0000
119	152.7250	0.0284	0.0000
120	153.9000	0.0291	0.0000
121	155.0750	0.0290	0.0000
122	156.2500	0.0283	0.0000
123	157.4250	0.0271	0.0000
124	158.6000	0.0252	-0.0000
125	159.7750	0.0232	0.0000
126	160.9500	0.0204	0.0000
127	162.1250	0.0176	0.0000
128	163.3000	0.0142	0.0000
129	164.4750	0.0111	0.0000
130	165.6500	0.0074	0.0000
131	166.8250	0.0037	0.0000
132	167.0000	0.0033	0.0000
133	168.0000	0.0000	0.0000

28/09/01



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
HBCP

Hormigonado BC Pilas

[1: 1]HBCP

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0001	0.0000
3	1.1750	0.0001	0.0000
4	2.3500	0.0001	0.0000
5	3.5250	0.0002	0.0000
6	4.7000	0.0002	0.0000
7	5.8750	0.0003	0.0000
8	7.0500	0.0004	0.0000
9	8.2250	0.0004	0.0000
10	9.4000	0.0005	0.0000
11	10.5750	0.0005	0.0000
12	11.7500	0.0006	0.0000
13	12.9250	0.0006	0.0000
14	14.1000	0.0007	0.0000
15	15.2750	0.0007	0.0000
16	16.4500	0.0007	0.0000
17	17.6250	0.0007	0.0000
18	18.8000	0.0008	0.0000
19	19.9750	0.0008	0.0000
20	21.1500	0.0008	0.0000
21	22.3250	0.0006	0.0000
22	22.5000	0.0006	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0012	0.0000
25	24.9500	-0.0018	0.0000
26	26.4000	-0.0039	0.0000
27	27.8500	-0.0056	0.0000
28	29.3000	-0.0069	0.0000
29	30.7500	-0.0079	0.0000
30	32.2000	-0.0088	0.0000
31	33.6500	-0.0093	0.0000
32	35.1000	-0.0097	0.0000
33	36.5500	-0.0099	0.0000
34	38.0000	-0.0098	0.0000
35	39.4500	-0.0096	0.0000
36	40.9000	-0.0091	0.0000
37	42.3500	-0.0085	0.0000
38	43.8000	-0.0077	0.0000
39	45.2500	-0.0067	0.0000
40	46.7000	-0.0056	0.0000
41	48.1500	-0.0043	0.0000
42	49.6000	-0.0027	0.0000
43	51.0500	-0.0010	0.0000
44	51.5000	-0.0006	0.0000
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	-0.0001	0.0000
47	53.9500	-0.0004	0.0000
48	55.4000	-0.0014	0.0000
49	56.8500	-0.0024	0.0000
50	58.3000	-0.0031	0.0000
51	59.7500	-0.0037	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
HBCP

Hormigonado BC Pilas

[1: 1]HBCP

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.0042	0.0000
53	62.6500	-0.0046	0.0000
54	64.1000	-0.0048	0.0000
55	65.5500	-0.0050	0.0000
56	67.0000	-0.0050	0.0000
57	68.4500	-0.0049	0.0000
58	69.9000	-0.0047	0.0000
59	71.3500	-0.0043	0.0000
60	72.8000	-0.0039	0.0000
61	74.2500	-0.0034	0.0000
62	75.7000	-0.0027	0.0000
63	77.1500	-0.0020	0.0000
64	78.6000	-0.0010	0.0000
65	80.0500	-0.0001	0.0000
66	80.5000	0.0000	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	-0.0008	0.0000
69	83.0750	-0.0015	0.0000
70	84.6500	-0.0037	0.0000
71	86.2250	-0.0056	0.0000
72	87.8000	-0.0070	0.0000
73	89.3750	-0.0082	0.0000
74	90.9500	-0.0091	0.0000
75	92.5250	-0.0097	0.0000
76	94.1000	-0.0101	0.0000
77	95.6750	-0.0103	0.0000
78	97.2500	-0.0103	0.0000
79	98.8250	-0.0100	0.0000
80	100.4000	-0.0096	0.0000
81	101.9750	-0.0089	0.0000
82	103.5500	-0.0080	0.0000
83	105.1250	-0.0070	0.0000
84	106.7000	-0.0057	0.0000
85	108.2750	-0.0043	0.0000
86	109.8500	-0.0026	0.0000
87	111.4250	-0.0008	0.0000
88	112.0000	-0.0003	0.0000
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0006	0.0000
91	114.5750	-0.0013	0.0000
92	116.1500	-0.0035	0.0000
93	117.7250	-0.0057	0.0000
94	119.3000	-0.0075	0.0000
95	120.8750	-0.0091	0.0000
96	122.4500	-0.0105	0.0000
97	124.0250	-0.0117	0.0000
98	125.6000	-0.0126	0.0000
99	127.1750	-0.0133	0.0000
100	128.7500	-0.0137	0.0000
101	130.3250	-0.0139	0.0000
102	131.9000	-0.0137	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
HBCP

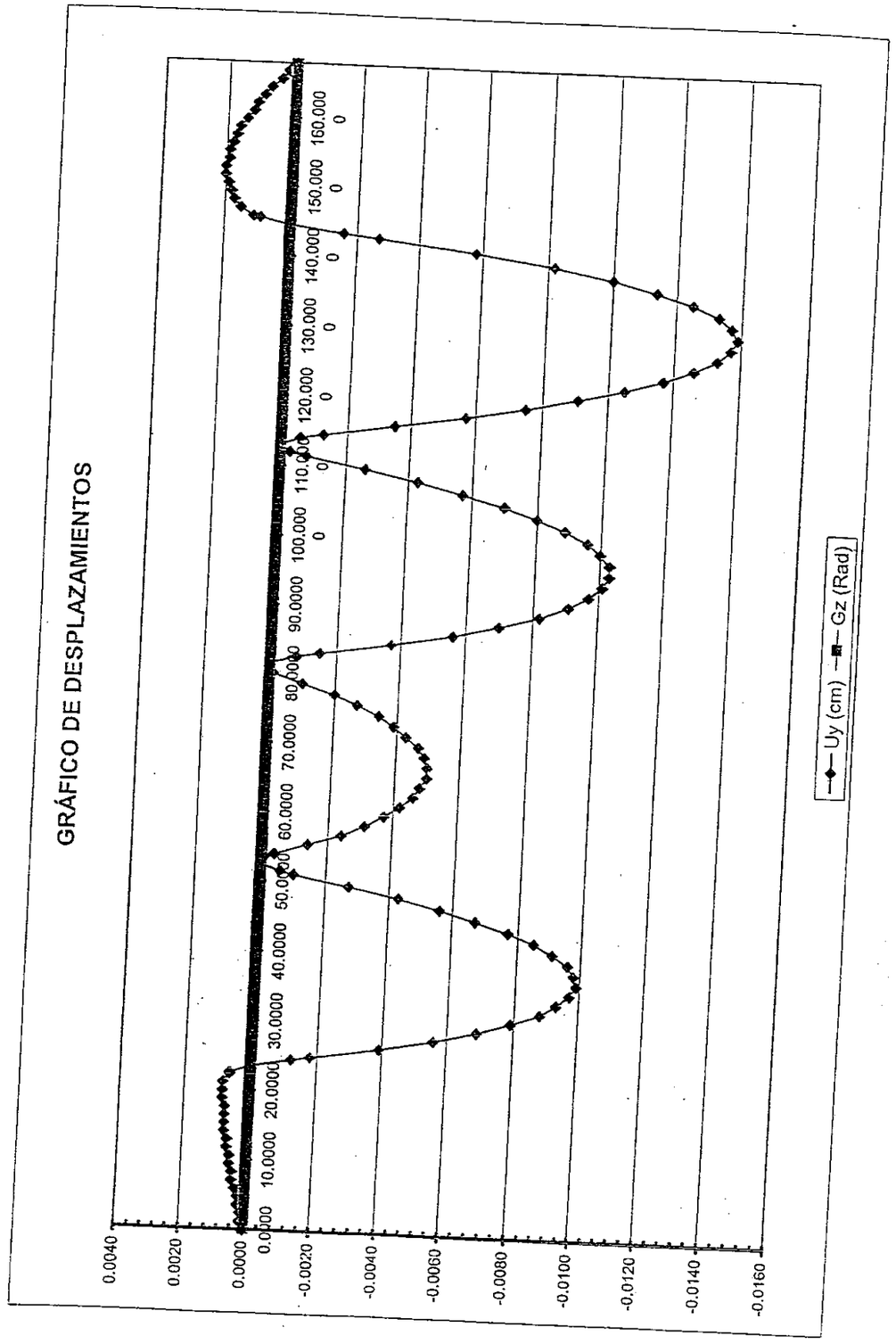
Hormigonado BC Pilas

[1: 1]HBCP

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.0133	0.0000
104	135.0500	-0.0125	0.0000
105	136.6250	-0.0114	0.0000
106	138.2000	-0.0100	0.0000
107	139.7750	-0.0082	0.0000
108	141.3500	-0.0058	0.0000
109	142.9250	-0.0027	0.0000
110	143.5000	-0.0016	0.0000
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0009	0.0000
113	145.6750	0.0011	0.0000
114	146.8500	0.0015	0.0000
115	148.0250	0.0017	0.0000
116	149.2000	0.0018	0.0000
117	150.3750	0.0019	0.0000
118	151.5500	0.0020	0.0000
119	152.7250	0.0020	0.0000
120	153.9000	0.0019	0.0000
121	155.0750	0.0019	0.0000
122	156.2500	0.0018	0.0000
123	157.4250	0.0017	0.0000
124	158.6000	0.0016	0.0000
125	159.7750	0.0014	0.0000
126	160.9500	0.0012	0.0000
127	162.1250	0.0011	0.0000
128	163.3000	0.0009	0.0000
129	164.4750	0.0007	0.0000
130	165.6500	0.0004	0.0000
131	166.8250	0.0002	0.0000
132	167.0000	0.0002	0.0000
133	168.0000	0.0000	0.0000

Programa DINTEL IDEAM S.A.
HBCP



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
HVOL

Hormigonado voladizos

[1; 1]HVOL

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	-0.0033	0.0000
3	1.1750	-0.0039	0.0000
4	2.3500	-0.0077	0.0000
5	3.5250	-0.0111	0.0000
6	4.7000	-0.0141	0.0000
7	5.8750	-0.0166	0.0000
8	7.0500	-0.0185	0.0000
9	8.2250	-0.0197	0.0000
10	9.4000	-0.0203	0.0000
11	10.5750	-0.0202	0.0000
12	11.7500	-0.0195	0.0000
13	12.9250	-0.0182	0.0000
14	14.1000	-0.0164	0.0000
15	15.2750	-0.0141	0.0000
16	16.4500	-0.0116	0.0000
17	17.6250	-0.0089	0.0000
18	18.8000	-0.0063	0.0000
19	19.9750	-0.0038	0.0000
20	21.1500	-0.0018	0.0000
21	22.3250	-0.0005	0.0000
22	22.5000	-0.0003	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0005	0.0000
25	24.9500	-0.0009	0.0000
26	26.4000	-0.0032	0.0000
27	27.8500	-0.0063	0.0000
28	29.3000	-0.0098	0.0000
29	30.7500	-0.0134	0.0000
30	32.2000	-0.0168	0.0000
31	33.6500	-0.0197	0.0000
32	35.1000	-0.0219	0.0000
33	36.5500	-0.0233	0.0000
34	38.0000	-0.0238	0.0000
35	39.4500	-0.0234	0.0000
36	40.9000	-0.0220	0.0000
37	42.3500	-0.0199	0.0000
38	43.8000	-0.0170	0.0000
39	45.2500	-0.0137	0.0000
40	46.7000	-0.0101	0.0000
41	48.1500	-0.0065	0.0000
42	49.6000	-0.0034	0.0000
43	51.0500	-0.0011	0.0000
44	51.5000	-0.0006	0.0000
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	-0.0002	0.0000
47	53.9500	-0.0005	0.0000
48	55.4000	-0.0023	0.0000
49	56.8500	-0.0050	0.0000
50	58.3000	-0.0080	0.0000
51	59.7500	-0.0112	0.0000

Programa DINTEL IDEAM S.A.
HVOL
28/09/01

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
HVOL

Hormigonado voladizos

[1; 1]HVOL

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.0141	0.0000
53	62.6500	-0.0166	0.0000
54	64.1000	-0.0185	0.0000
55	65.5500	-0.0196	0.0000
56	67.0000	-0.0199	0.0000
57	68.4500	-0.0193	0.0000
58	69.9000	-0.0179	0.0000
59	71.3500	-0.0157	0.0000
60	72.8000	-0.0130	0.0000
61	74.2500	-0.0099	0.0000
62	75.7000	-0.0068	0.0000
63	77.1500	-0.0038	0.0000
64	78.6000	-0.0014	0.0000
65	80.0500	0.0000	0.0000
66	80.5000	0.0002	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	-0.0011	0.0000
69	83.0750	-0.0020	0.0000
70	84.6500	-0.0057	0.0000
71	86.2250	-0.0104	0.0000
72	87.8000	-0.0155	0.0000
73	89.3750	-0.0207	0.0000
74	90.9500	-0.0254	0.0000
75	92.5250	-0.0293	0.0000
76	94.1000	-0.0322	0.0000
77	95.6750	-0.0339	0.0000
78	97.2500	-0.0343	0.0000
79	98.8250	-0.0334	0.0000
80	100.4000	-0.0312	0.0000
81	101.9750	-0.0279	0.0000
82	103.5500	-0.0236	0.0000
83	105.1250	-0.0188	0.0000
84	106.7000	-0.0136	0.0000
85	108.2750	-0.0086	0.0000
86	109.8500	-0.0043	0.0000
87	111.4250	-0.0012	0.0000
88	112.0000	-0.0005	0.0000
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0005	0.0000
91	114.5750	-0.0012	0.0000
92	116.1500	-0.0043	0.0000
93	117.7250	-0.0086	0.0000
94	119.3000	-0.0136	0.0000
95	120.8750	-0.0188	0.0000
96	122.4500	-0.0237	0.0000
97	124.0250	-0.0280	0.0000
98	125.6000	-0.0313	0.0000
99	127.1750	-0.0335	0.0000
100	128.7500	-0.0344	0.0000
101	130.3250	-0.0340	0.0000
102	131.9000	-0.0323	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
HVOL

Hormigonado voladizos

[1; 1]HVOL

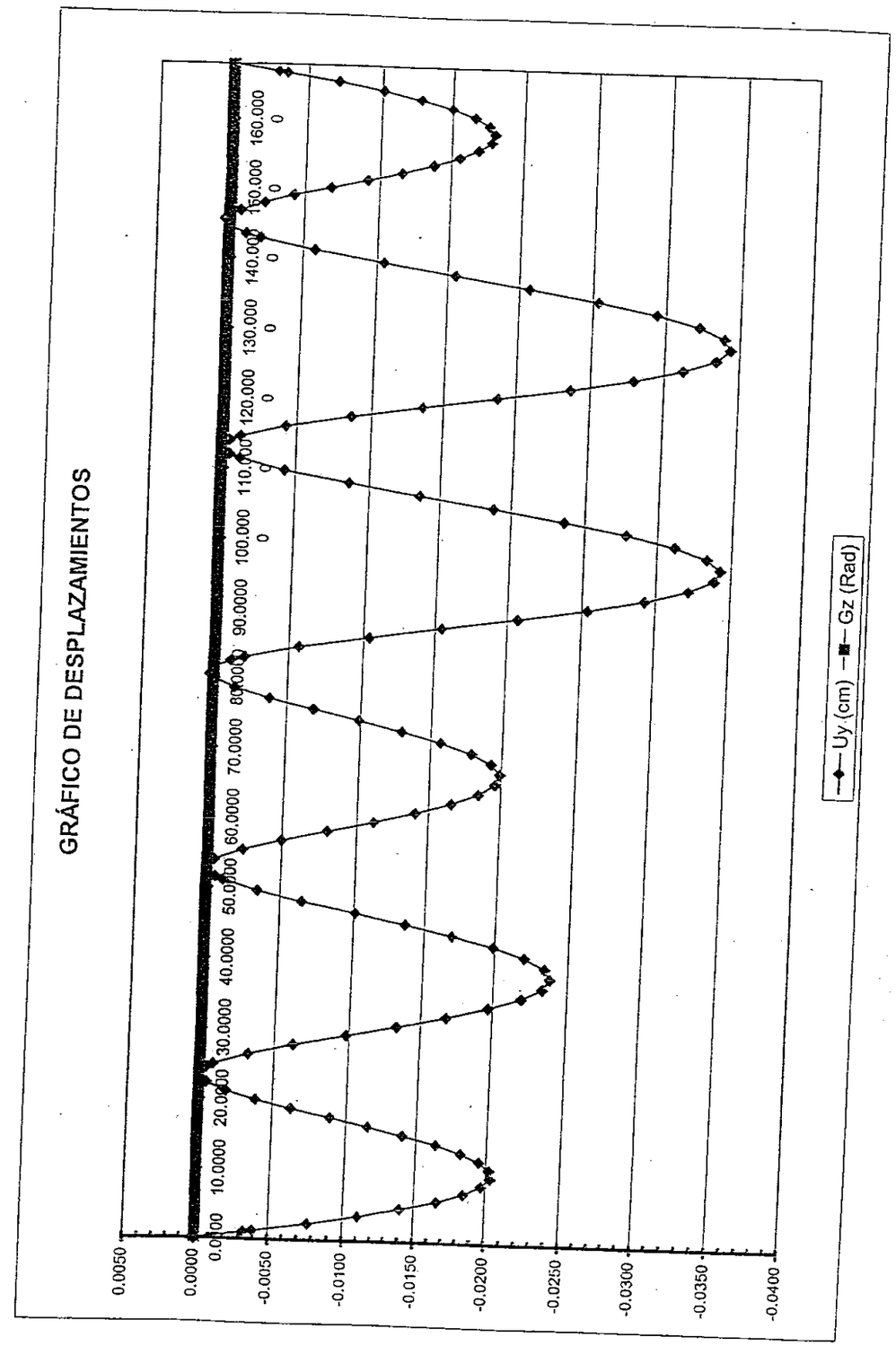
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.0294	0.0000
104	135.0500	-0.0254	0.0000
105	136.6250	-0.0207	0.0000
106	138.2000	-0.0156	0.0000
107	139.7750	-0.0105	0.0000
108	141.3500	-0.0058	0.0000
109	142.9250	-0.0021	0.0000
110	143.5000	-0.0011	0.0000
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0002	0.0000
113	145.6750	0.0002	0.0000
114	146.8500	-0.0007	0.0000
115	148.0250	-0.0023	0.0000
116	149.2000	-0.0043	0.0000
117	150.3750	-0.0067	0.0000
118	151.5500	-0.0092	0.0000
119	152.7250	-0.0116	0.0000
120	153.9000	-0.0138	0.0000
121	155.0750	-0.0156	0.0000
122	156.2500	-0.0169	0.0000
123	157.4250	-0.0178	0.0000
124	158.6000	-0.0180	0.0000
125	159.7750	-0.0176	0.0000
126	160.9500	-0.0166	0.0000
127	162.1250	-0.0150	0.0000
128	163.3000	-0.0128	0.0000
129	164.4750	-0.0101	0.0000
130	165.6500	-0.0070	0.0000
131	166.8250	-0.0036	0.0000
132	167.0000	-0.0030	0.0000
133	168.0000	0.0000	0.0000

28/09/01

Programa DINTEL IDEAM S.A.
HVOL

GRÁFICO DE DESPLAZAMIENTOS



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
CMBAL

Carga Muerta Balasto

[1; 1]CMBAL

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	-0.0002
2	1.0000	-0.0159	-0.0002
3	1.1750	-0.0187	-0.0002
4	2.3500	-0.0366	-0.0002
5	3.5250	-0.0531	-0.0001
6	4.7000	-0.0678	-0.0001
7	5.8750	-0.0800	-0.0001
8	7.0500	-0.0896	-0.0001
9	8.2250	-0.0963	0.0000
10	9.4000	-0.0998	0.0000
11	10.5750	-0.1003	0.0000
12	11.7500	-0.0978	0.0000
13	12.9250	-0.0924	0.0001
14	14.1000	-0.0845	0.0001
15	15.2750	-0.0743	0.0001
16	16.4500	-0.0624	0.0001
17	17.6250	-0.0494	0.0001
18	18.8000	-0.0360	0.0001
19	19.9750	-0.0228	0.0001
20	21.1500	-0.0110	0.0001
21	22.3250	-0.0023	0.0001
22	22.5000	-0.0014	0.0001
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0054	-0.0001
25	24.9500	-0.0097	-0.0001
26	26.4000	-0.0274	-0.0001
27	27.8500	-0.0481	-0.0002
28	29.3000	-0.0695	-0.0002
29	30.7500	-0.0902	-0.0001
30	32.2000	-0.1089	-0.0001
31	33.6500	-0.1246	-0.0001
32	35.1000	-0.1363	-0.0001
33	36.5500	-0.1435	0.0000
34	38.0000	-0.1459	0.0000
35	39.4500	-0.1433	0.0000
36	40.9000	-0.1358	0.0001
37	42.3500	-0.1238	0.0001
38	43.8000	-0.1080	0.0001
39	45.2500	-0.0890	0.0001
40	46.7000	-0.0681	0.0002
41	48.1500	-0.0464	0.0002
42	49.6000	-0.0257	0.0001
43	51.0500	-0.0084	0.0001
44	51.5000	-0.0044	0.0001
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	-0.0029	-0.0001
47	53.9500	-0.0062	-0.0001
48	55.4000	-0.0214	-0.0001
49	56.8500	-0.0400	-0.0001
50	58.3000	-0.0596	-0.0001
51	59.7500	-0.0786	-0.0001

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
CMBAL

Carga Muerta Balasto

[1; 1]CMBAL

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.0958	-0.0001
53	62.6500	-0.1101	-0.0001
54	64.1000	-0.1207	-0.0001
55	65.5500	-0.1270	0.0000
56	67.0000	-0.1287	0.0000
57	68.4500	-0.1257	0.0000
58	69.9000	-0.1182	0.0001
59	71.3500	-0.1066	0.0001
60	72.8000	-0.0914	0.0001
61	74.2500	-0.0735	0.0001
62	75.7000	-0.0541	0.0001
63	77.1500	-0.0344	0.0001
64	78.6000	-0.0162	0.0001
65	80.0500	-0.0026	0.0001
66	80.5000	-0.0001	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	-0.0083	-0.0001
69	83.0750	-0.0162	-0.0002
70	84.6500	-0.0438	-0.0002
71	86.2250	-0.0752	-0.0002
72	87.8000	-0.1072	-0.0002
73	89.3750	-0.1377	-0.0002
74	90.9500	-0.1648	-0.0002
75	92.5250	-0.1872	-0.0001
76	94.1000	-0.2037	-0.0001
77	95.6750	-0.2135	0.0000
78	97.2500	-0.2162	0.0000
79	98.8250	-0.2116	0.0001
80	100.4000	-0.2000	0.0001
81	101.9750	-0.1820	0.0001
82	103.5500	-0.1583	0.0002
83	105.1250	-0.1302	0.0002
84	106.7000	-0.0992	0.0002
85	108.2750	-0.0672	0.0002
86	109.8500	-0.0365	0.0002
87	111.4250	-0.0112	0.0001
88	112.0000	-0.0047	0.0001
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0050	-0.0001
91	114.5750	-0.0116	-0.0001
92	116.1500	-0.0374	-0.0002
93	117.7250	-0.0686	-0.0002
94	119.3000	-0.1011	-0.0002
95	120.8750	-0.1325	-0.0002
96	122.4500	-0.1611	-0.0002
97	124.0250	-0.1851	-0.0001
98	125.6000	-0.2036	-0.0001
99	127.1750	-0.2154	-0.0001
100	128.7500	-0.2202	0.0000
101	130.3250	-0.2177	0.0000
102	131.9000	-0.2081	0.0001

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
CMBAL

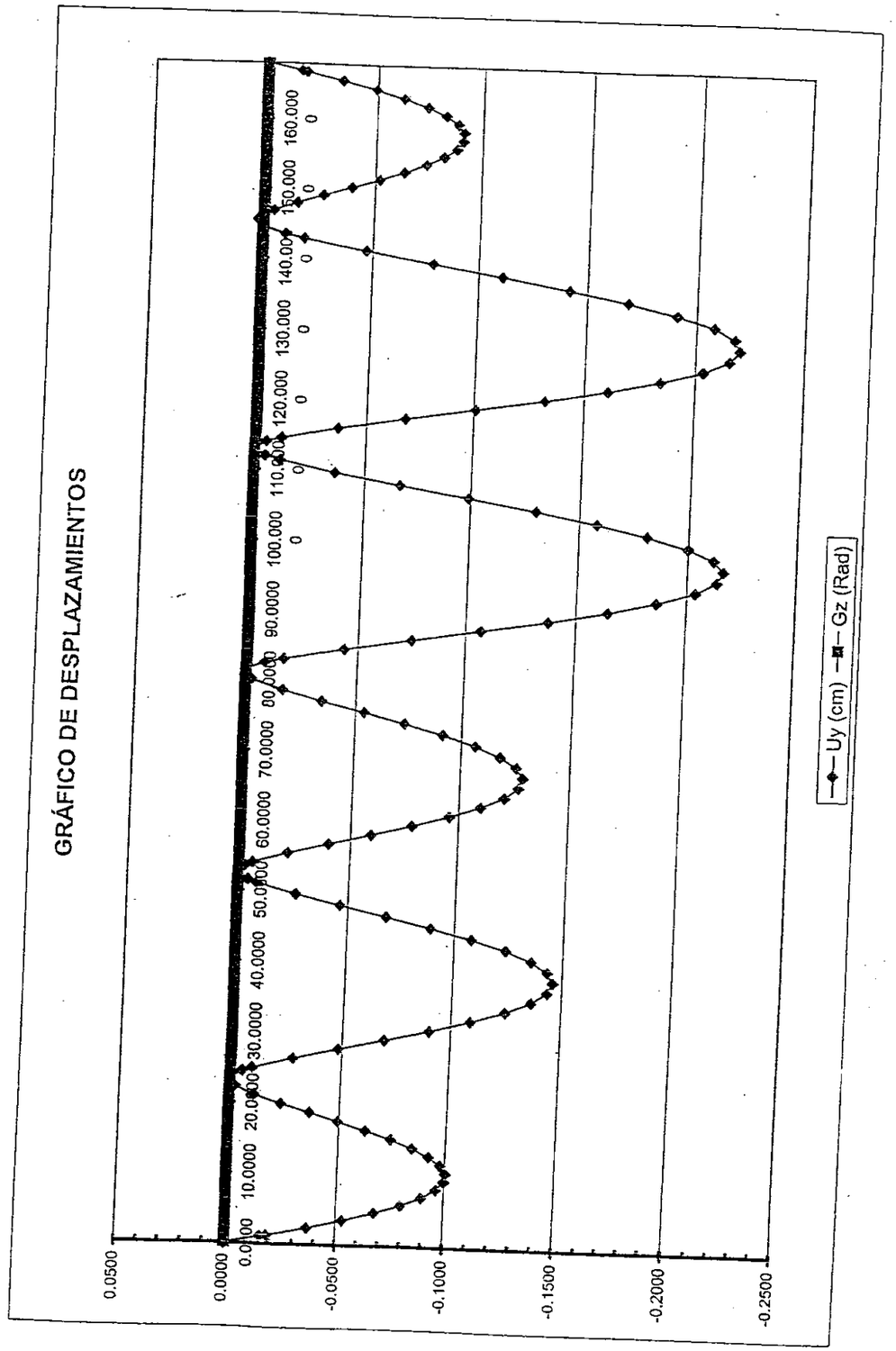
Carga Muerta Balasto

[1: 1]CMBAL

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.1916	0.0001
104	135.0500	-0.1692	0.0002
105	136.6250	-0.1420	0.0002
106	138.2000	-0.1113	0.0002
107	139.7750	-0.0790	0.0002
108	141.3500	-0.0471	0.0002
109	142.9250	-0.0185	0.0002
110	143.5000	-0.0099	0.0001
111	144.5000	0.0000	0.0001
1111	144.5000	0.0000	0.0001
112	145.5000	0.0020	0.0000
113	145.6750	0.0016	0.0000
114	146.8500	-0.0045	-0.0001
115	148.0250	-0.0148	-0.0001
116	149.2000	-0.0269	-0.0001
117	150.3750	-0.0397	-0.0001
118	151.5500	-0.0523	-0.0001
119	152.7250	-0.0640	-0.0001
120	153.9000	-0.0742	-0.0001
121	155.0750	-0.0823	-0.0001
122	156.2500	-0.0881	0.0000
123	157.4250	-0.0911	0.0000
124	158.6000	-0.0913	0.0000
125	159.7750	-0.0885	0.0000
126	160.9500	-0.0827	0.0001
127	162.1250	-0.0742	0.0001
128	163.3000	-0.0630	0.0001
129	164.4750	-0.0495	0.0001
130	165.6500	-0.0341	0.0001
131	166.8250	-0.0174	0.0002
132	167.0000	-0.0149	0.0002
133	168.0000	0.0000	0.0002

Programa DINTEL IDEAM S.A.
CMBAL
28/09/01



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
CMRESTO

Resto Carga Muerta

[1; 1]CMRESTO

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	-0.0001
2	1.0000	-0.0111	-0.0001
3	1.1750	-0.0130	-0.0001
4	2.3500	-0.0254	-0.0001
5	3.5250	-0.0369	-0.0001
6	4.7000	-0.0471	-0.0001
7	5.8750	-0.0556	-0.0001
8	7.0500	-0.0623	-0.0001
9	8.2250	-0.0669	0.0000
10	9.4000	-0.0694	0.0000
11	10.5750	-0.0697	0.0000
12	11.7500	-0.0680	0.0000
13	12.9250	-0.0642	0.0000
14	14.1000	-0.0587	0.0001
15	15.2750	-0.0516	0.0001
16	16.4500	-0.0434	0.0001
17	17.6250	-0.0343	0.0001
18	18.8000	-0.0250	0.0001
19	19.9750	-0.0159	0.0001
20	21.1500	-0.0076	0.0001
21	22.3250	-0.0016	0.0000
22	22.5000	-0.0010	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0038	-0.0001
25	24.9500	-0.0068	-0.0001
26	26.4000	-0.0191	-0.0001
27	27.8500	-0.0334	-0.0001
28	29.3000	-0.0483	-0.0001
29	30.7500	-0.0627	-0.0001
30	32.2000	-0.0757	-0.0001
31	33.6500	-0.0865	-0.0001
32	35.1000	-0.0947	-0.0001
33	36.5500	-0.0997	0.0000
34	38.0000	-0.1013	0.0000
35	39.4500	-0.0995	0.0000
36	40.9000	-0.0943	0.0001
37	42.3500	-0.0860	0.0001
38	43.8000	-0.0750	0.0001
39	45.2500	-0.0618	0.0001
40	46.7000	-0.0473	0.0001
41	48.1500	-0.0323	0.0001
42	49.6000	-0.0179	0.0001
43	51.0500	-0.0058	0.0001
44	51.5000	-0.0031	0.0001
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	-0.0020	0.0000
47	53.9500	-0.0043	-0.0001
48	55.4000	-0.0149	-0.0001
49	56.8500	-0.0278	-0.0001
50	58.3000	-0.0414	-0.0001
51	59.7500	-0.0546	-0.0001

Programa DINTEL IDEAM S.A.
CMRESTO
28/09/01

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
CMRESTO

Resto Carga Muerta

[1; 1]CMRESTO

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.0666	-0.0001
53	62.6500	-0.0765	-0.0001
54	64.1000	-0.0838	0.0000
55	65.5500	-0.0882	0.0000
56	67.0000	-0.0894	0.0000
57	68.4500	-0.0873	0.0000
58	69.9000	-0.0821	0.0001
59	71.3500	-0.0740	0.0001
60	72.8000	-0.0635	0.0001
61	74.2500	-0.0511	0.0001
62	75.7000	-0.0376	0.0001
63	77.1500	-0.0239	0.0001
64	78.6000	-0.0112	0.0001
65	80.0500	-0.0018	0.0001
66	80.5000	-0.0001	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	-0.0058	-0.0001
69	83.0750	-0.0113	-0.0001
70	84.6500	-0.0304	-0.0001
71	86.2250	-0.0523	-0.0001
72	87.8000	-0.0745	-0.0001
73	89.3750	-0.0957	-0.0001
74	90.9500	-0.1145	-0.0001
75	92.5250	-0.1301	-0.0001
76	94.1000	-0.1415	-0.0001
77	95.6750	-0.1483	0.0000
78	97.2500	-0.1502	0.0000
79	98.8250	-0.1470	0.0000
80	100.4000	-0.1390	0.0001
81	101.9750	-0.1264	0.0001
82	103.5500	-0.1100	0.0001
83	105.1250	-0.0904	0.0001
84	106.7000	-0.0689	0.0001
85	108.2750	-0.0467	0.0001
86	109.8500	-0.0254	0.0001
87	111.4250	-0.0078	0.0001
88	112.0000	-0.0033	0.0001
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0035	-0.0001
91	114.5750	-0.0081	-0.0001
92	116.1500	-0.0260	-0.0001
93	117.7250	-0.0477	-0.0001
94	119.3000	-0.0702	-0.0001
95	120.8750	-0.0921	-0.0001
96	122.4500	-0.1119	-0.0001
97	124.0250	-0.1286	-0.0001
98	125.6000	-0.1414	-0.0001
99	127.1750	-0.1497	0.0000
100	128.7500	-0.1530	0.0000
101	130.3250	-0.1513	0.0000
102	131.9000	-0.1445	0.0001

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
CMRESTO

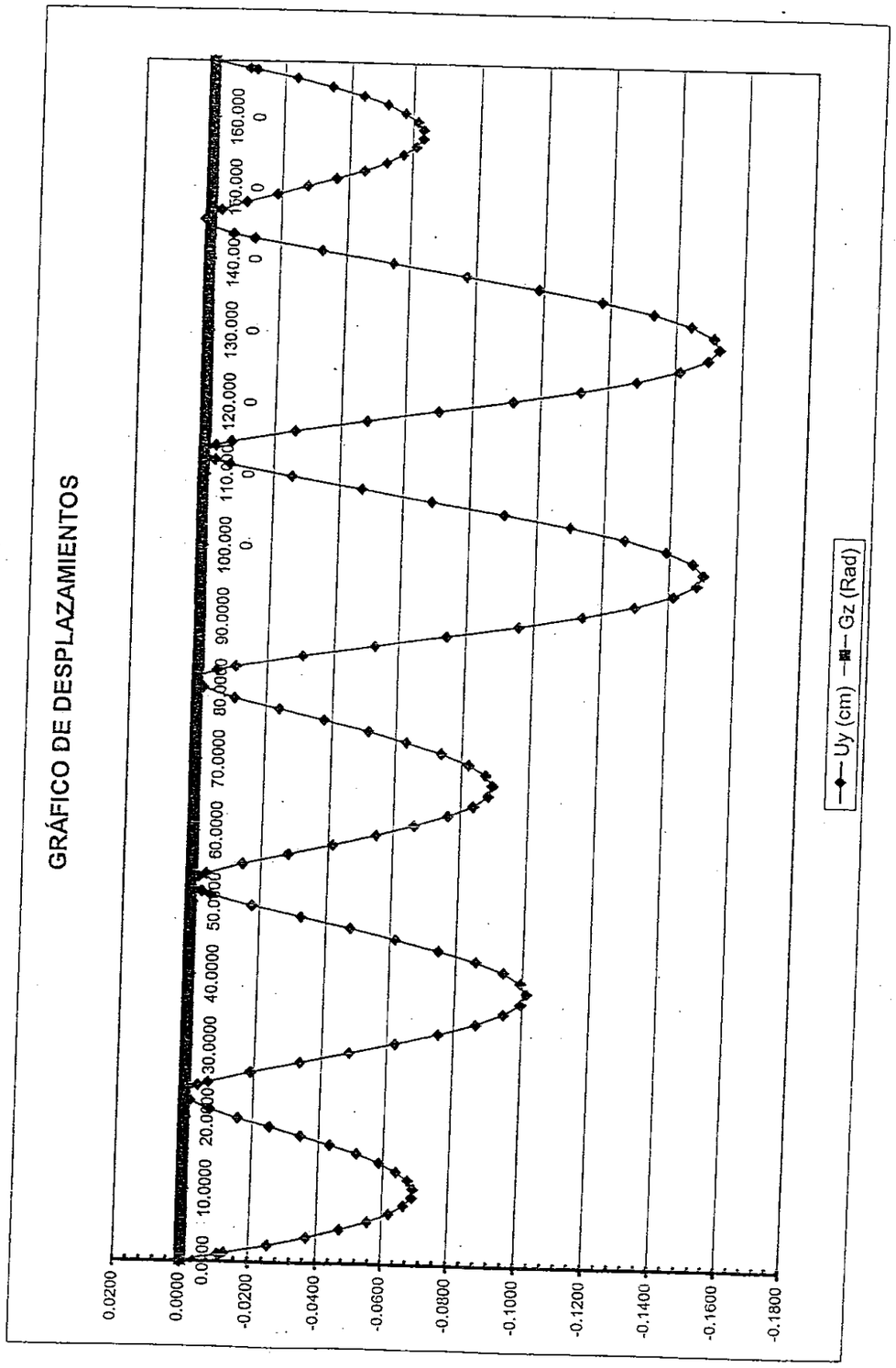
Resto Carga Muerta

[1: 1]CMRESTO

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.1331	0.0001
104	135.0500	-0.1176	0.0001
105	136.6250	-0.0986	0.0001
106	138.2000	-0.0773	0.0001
107	139.7750	-0.0549	0.0001
108	141.3500	-0.0327	0.0001
109	142.9250	-0.0129	0.0001
110	143.5000	-0.0069	0.0001
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0014	0.0000
113	145.6750	0.0011	0.0000
114	146.8500	-0.0031	-0.0001
115	148.0250	-0.0103	-0.0001
116	149.2000	-0.0187	-0.0001
117	150.3750	-0.0276	-0.0001
118	151.5500	-0.0364	-0.0001
119	152.7250	-0.0445	-0.0001
120	153.9000	-0.0515	-0.0001
121	155.0750	-0.0572	0.0000
122	156.2500	-0.0612	0.0000
123	157.4250	-0.0633	0.0000
124	158.6000	-0.0634	0.0000
125	159.7750	-0.0615	0.0000
126	160.9500	-0.0575	0.0000
127	162.1250	-0.0515	0.0001
128	163.3000	-0.0438	0.0001
129	164.4750	-0.0344	0.0001
130	165.6500	-0.0237	0.0001
131	166.8250	-0.0121	0.0001
132	167.0000	-0.0103	0.0001
133	168.0000	0.0000	0.0001

Programa DINTEL IDEAM S.A.
CMRESTO
28/09/01



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
GRAD

Gradiente termico

[1; 1]GRAD

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0002
2	1.0000	0.0181	0.0002
3	1.1750	0.0210	0.0002
4	2.3500	0.0387	0.0001
5	3.5250	0.0533	0.0001
6	4.7000	0.0649	0.0001
7	5.8750	0.0736	0.0001
8	7.0500	0.0798	0.0000
9	8.2250	0.0835	0.0000
10	9.4000	0.0850	0.0000
11	10.5750	0.0844	0.0000
12	11.7500	0.0819	0.0000
13	12.9250	0.0777	0.0000
14	14.1000	0.0720	-0.0001
15	15.2750	0.0650	-0.0001
16	16.4500	0.0568	-0.0001
17	17.6250	0.0476	-0.0001
18	18.8000	0.0376	-0.0001
19	19.9750	0.0271	-0.0001
20	21.1500	0.0163	-0.0001
21	22.3250	0.0066	-0.0001
22	22.5000	0.0053	-0.0001
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0019	0.0000
25	24.9500	-0.0017	0.0000
26	26.4000	0.0003	0.0000
27	27.8500	0.0030	0.0000
28	29.3000	0.0056	0.0000
29	30.7500	0.0080	0.0000
30	32.2000	0.0101	0.0000
31	33.6500	0.0121	0.0000
32	35.1000	0.0139	0.0000
33	36.5500	0.0153	0.0000
34	38.0000	0.0164	0.0000
35	39.4500	0.0171	0.0000
36	40.9000	0.0173	0.0000
37	42.3500	0.0170	0.0000
38	43.8000	0.0161	0.0000
39	45.2500	0.0145	0.0000
40	46.7000	0.0121	0.0000
41	48.1500	0.0088	0.0000
42	49.6000	0.0047	0.0000
43	51.0500	0.0009	0.0000
44	51.5000	0.0001	0.0000
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0024	0.0000
47	53.9500	0.0042	0.0000
48	55.4000	0.0112	0.0001
49	56.8500	0.0184	0.0001
50	58.3000	0.0246	0.0000
51	59.7500	0.0296	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
GRAD

Gradiente termico

[1; 1]GRAD

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.0336	0.0000
53	62.6500	0.0366	0.0000
54	64.1000	0.0386	0.0000
55	65.5500	0.0397	0.0000
56	67.0000	0.0398	0.0000
57	68.4500	0.0390	0.0000
58	69.9000	0.0372	0.0000
59	71.3500	0.0345	0.0000
60	72.8000	0.0309	0.0000
61	74.2500	0.0264	0.0000
62	75.7000	0.0210	0.0000
63	77.1500	0.0146	-0.0001
64	78.6000	0.0077	-0.0001
65	80.0500	0.0018	0.0000
66	80.5000	0.0006	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	0.0023	0.0000
69	83.0750	0.0049	0.0001
70	84.6500	0.0136	0.0001
71	86.2250	0.0227	0.0001
72	87.8000	0.0307	0.0001
73	89.3750	0.0376	0.0000
74	90.9500	0.0432	0.0000
75	92.5250	0.0477	0.0000
76	94.1000	0.0509	0.0000
77	95.6750	0.0530	0.0000
78	97.2500	0.0539	0.0000
79	98.8250	0.0535	0.0000
80	100.4000	0.0518	0.0000
81	101.9750	0.0488	0.0000
82	103.5500	0.0446	0.0000
83	105.1250	0.0390	0.0000
84	106.7000	0.0319	-0.0001
85	108.2750	0.0235	-0.0001
86	109.8500	0.0139	-0.0001
87	111.4250	0.0050	-0.0001
88	112.0000	0.0024	0.0000
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0003	0.0000
91	114.5750	0.0017	0.0000
92	116.1500	0.0074	0.0000
93	117.7250	0.0140	0.0000
94	119.3000	0.0197	0.0000
95	120.8750	0.0242	0.0000
96	122.4500	0.0275	0.0000
97	124.0250	0.0297	0.0000
98	125.6000	0.0310	0.0000
99	127.1750	0.0314	0.0000
100	128.7500	0.0309	0.0000
101	130.3250	0.0297	0.0000
102	131.9000	0.0278	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cáiculo:
GRAD

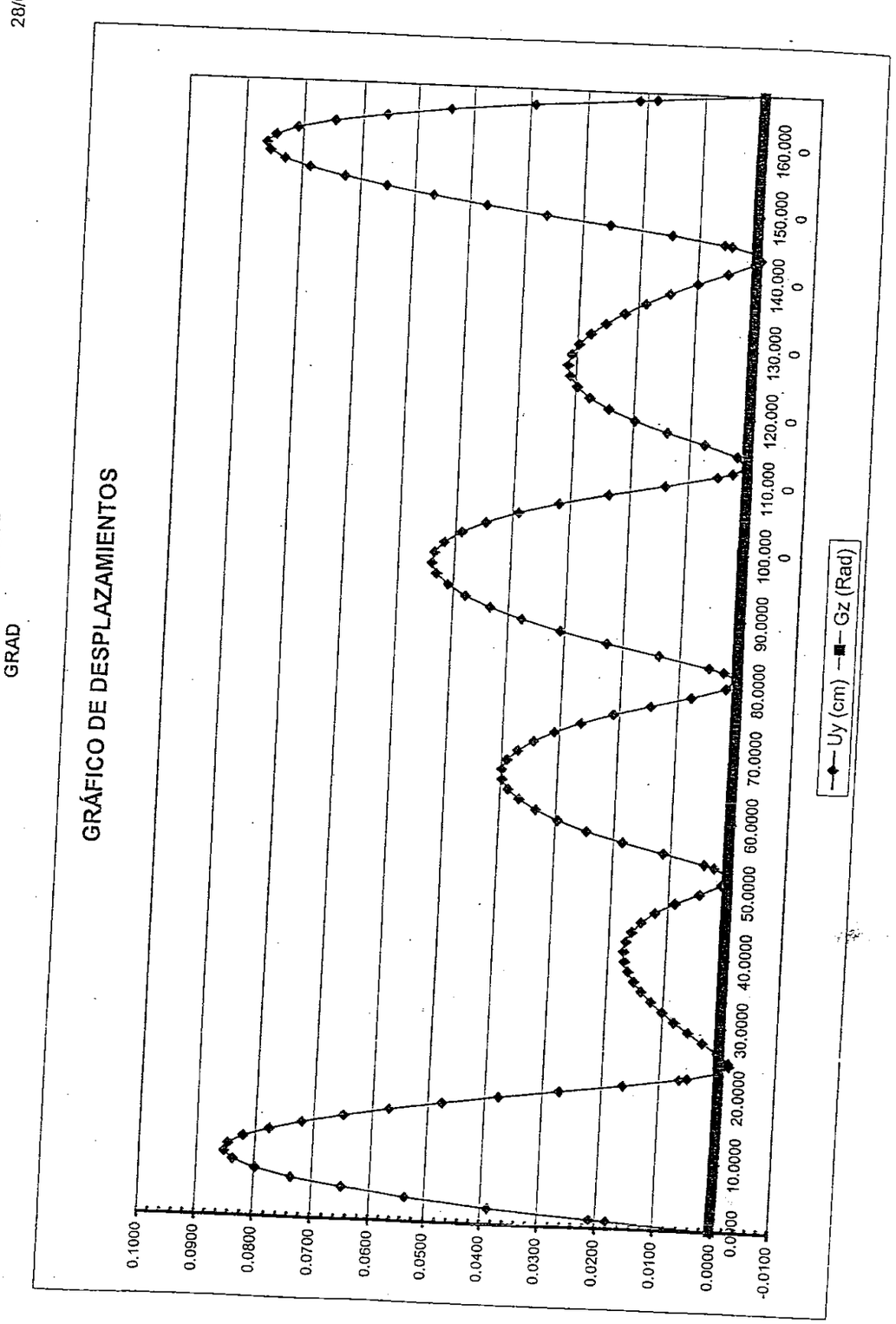
Gradiente termico

[1; 1]GRAD

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.0253	0.0000
104	135.0500	0.0222	0.0000
105	136.6250	0.0187	0.0000
106	138.2000	0.0146	0.0000
107	139.7750	0.0099	0.0000
108	141.3500	0.0048	0.0000
109	142.9250	0.0002	0.0000
110	143.5000	-0.0008	0.0000
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0044	0.0001
113	145.6750	0.0056	0.0001
114	146.8500	0.0147	0.0001
115	148.0250	0.0254	0.0001
116	149.2000	0.0364	0.0001
117	150.3750	0.0469	0.0001
118	151.5500	0.0566	0.0001
119	152.7250	0.0653	0.0001
120	153.9000	0.0727	0.0001
121	155.0750	0.0786	0.0000
122	156.2500	0.0830	0.0000
123	157.4250	0.0856	0.0000
124	158.6000	0.0862	0.0000
125	159.7750	0.0847	0.0000
126	160.9500	0.0809	0.0000
127	162.1250	0.0746	-0.0001
128	163.3000	0.0657	-0.0001
129	164.4750	0.0540	-0.0001
130	165.6500	0.0392	-0.0001
131	166.8250	0.0213	-0.0002
132	167.0000	0.0183	-0.0002
133	168.0000	0.0000	-0.0002

Programa DINTEL IDEAM S.A.
GRAD
28/09/01



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.UY+

Envolvente de tren de cargas plano genérico. UY

[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0019	0.0000
3	1.1750	0.0024	0.0000
4	2.3500	0.0045	0.0000
5	3.5250	0.0066	0.0000
6	4.7000	0.0089	0.0000
7	5.8750	0.0107	0.0000
8	7.0500	0.0132	0.0000
9	8.2250	0.0149	0.0000
10	9.4000	0.0162	0.0000
11	10.5750	0.0176	0.0000
12	11.7500	0.0185	0.0000
13	12.9250	0.0188	0.0000
14	14.1000	0.0189	0.0000
15	15.2750	0.0186	0.0000
16	16.4500	0.0177	0.0000
17	17.6250	0.0163	0.0000
18	18.8000	0.0145	0.0000
19	19.9750	0.0119	0.0000
20	21.1500	0.0088	0.0000
21	22.3250	0.0050	0.0000
22	22.5000	0.0041	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0042	0.0000
25	24.9500	0.0057	0.0000
26	26.4000	0.0114	0.0000
27	27.8500	0.0159	0.0000
28	29.3000	0.0205	0.0000
29	30.7500	0.0238	0.0000
30	32.2000	0.0274	0.0000
31	33.6500	0.0302	0.0000
32	35.1000	0.0323	0.0000
33	36.5500	0.0336	0.0000
34	38.0000	0.0345	0.0000
35	39.4500	0.0346	0.0000
36	40.9000	0.0338	0.0000
37	42.3500	0.0325	0.0000
38	43.8000	0.0301	0.0000
39	45.2500	0.0273	0.0000
40	46.7000	0.0239	0.0000
41	48.1500	0.0191	0.0000
42	49.6000	0.0133	0.0000
43	51.0500	0.0076	0.0000
44	51.5000	0.0055	0.0000
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0056	0.0000
47	53.9500	0.0084	0.0000
48	55.4000	0.0153	0.0000
49	56.8500	0.0213	0.0000
50	58.3000	0.0267	0.0000
51	59.7500	0.0313	0.0000

Programa DINTEL IDEAM S.A.
SC1.ENV_TREN_GENERICO.UY+
28/09/01

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.UY+

Envolvente de tren de cargas plano genérico. UY

[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.0348	0.0000
53	62.6500	0.0382	0.0000
54	64.1000	0.0405	0.0000
55	65.5500	0.0419	0.0000
56	67.0000	0.0428	0.0000
57	68.4500	0.0427	0.0000
58	69.9000	0.0417	0.0000
59	71.3500	0.0400	0.0000
60	72.8000	0.0373	0.0000
61	74.2500	0.0333	0.0000
62	75.7000	0.0292	0.0000
63	77.1500	0.0237	0.0000
64	78.6000	0.0172	0.0000
65	80.0500	0.0096	0.0000
66	80.5000	0.0069	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	0.0062	0.0000
69	83.0750	0.0091	0.0000
70	84.6500	0.0169	0.0000
71	86.2250	0.0237	0.0000
72	87.8000	0.0298	0.0000
73	89.3750	0.0354	0.0000
74	90.9500	0.0396	0.0000
75	92.5250	0.0432	0.0000
76	94.1000	0.0454	0.0000
77	95.6750	0.0477	0.0000
78	97.2500	0.0478	0.0000
79	98.8250	0.0475	0.0000
80	100.4000	0.0462	0.0000
81	101.9750	0.0440	0.0000
82	103.5500	0.0412	0.0000
83	105.1250	0.0369	0.0000
84	106.7000	0.0321	0.0000
85	108.2750	0.0258	0.0000
86	109.8500	0.0187	0.0000
87	111.4250	0.0106	0.0000
88	112.0000	0.0072	0.0000
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0071	0.0000
91	114.5750	0.0101	0.0000
92	116.1500	0.0179	0.0000
93	117.7250	0.0251	0.0000
94	119.3000	0.0303	0.0000
95	120.8750	0.0353	0.0000
96	122.4500	0.0384	0.0000
97	124.0250	0.0408	0.0000
98	125.6000	0.0423	0.0000
99	127.1750	0.0426	0.0000
100	128.7500	0.0425	0.0000
101	130.3250	0.0416	0.0000
102	131.9000	0.0399	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.UY+

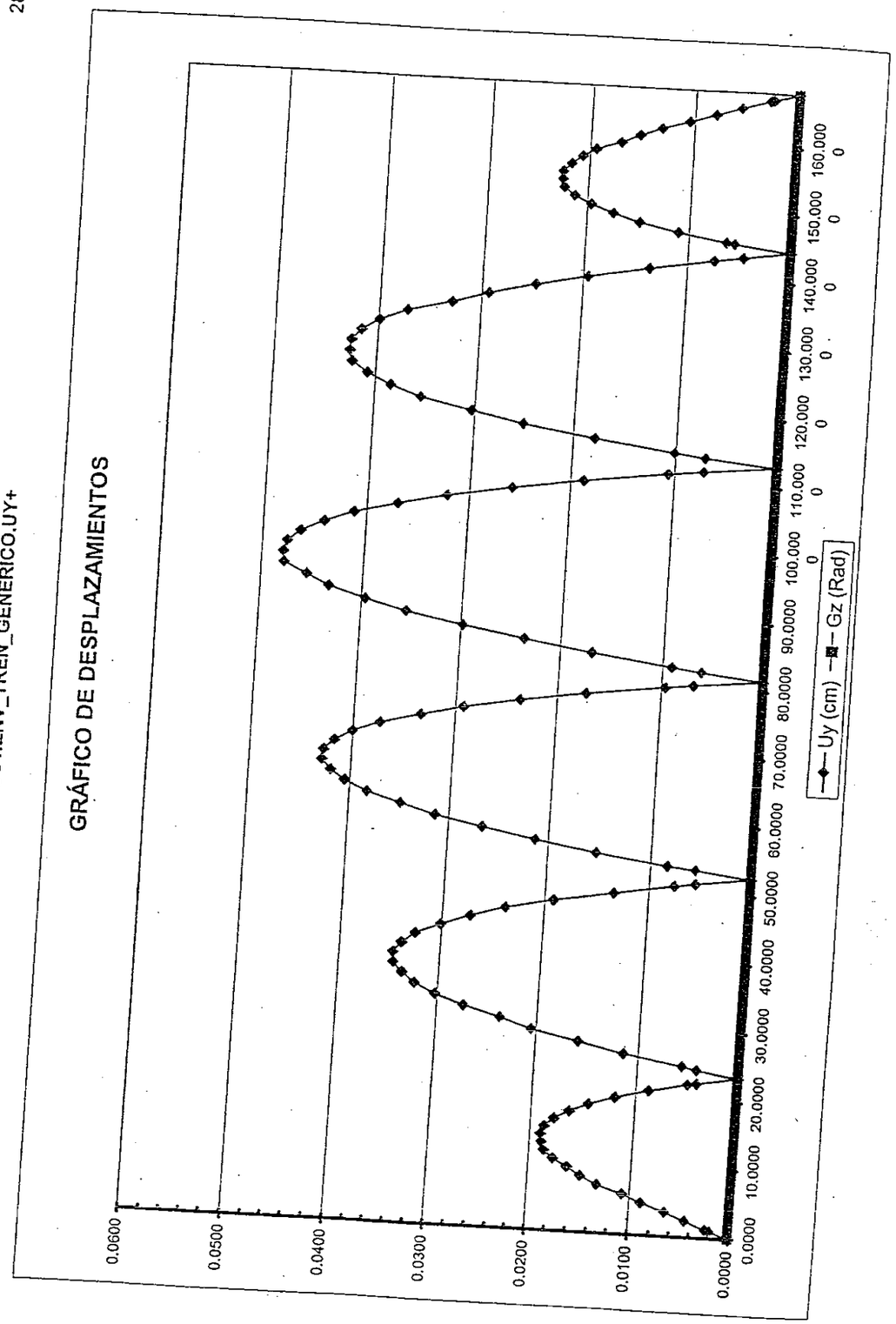
Envolvente de tren de cargas plano genérico. UY

[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.0371	0.0000
104	135.0500	0.0328	0.0000
105	136.6250	0.0293	0.0000
106	138.2000	0.0247	0.0000
107	139.7750	0.0195	0.0000
108	141.3500	0.0136	0.0000
109	142.9250	0.0074	0.0000
110	143.5000	0.0045	0.0000
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0055	0.0000
113	145.6750	0.0063	0.0000
114	146.8500	0.0110	0.0000
115	148.0250	0.0148	0.0000
116	149.2000	0.0174	0.0000
117	150.3750	0.0196	0.0000
118	151.5500	0.0213	0.0000
119	152.7250	0.0224	0.0000
120	153.9000	0.0226	0.0000
121	155.0750	0.0226	0.0000
122	156.2500	0.0218	0.0000
123	157.4250	0.0207	0.0000
124	158.6000	0.0194	0.0000
125	159.7750	0.0170	0.0000
126	160.9500	0.0152	0.0000
127	162.1250	0.0131	0.0000
128	163.3000	0.0105	0.0000
129	164.4750	0.0080	0.0000
130	165.6500	0.0055	0.0000
131	166.8250	0.0027	0.0000
132	167.0000	0.0024	0.0000
133	168.0000	0.0000	0.0000

Programa DINTEL IDEAM S.A.
SC1.ENV_TREN_GENERICO.UY+
28/09/01



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.GZ+
Envolvente de tren de cargas plano genérico. GZ
[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0000	0.0000
3	1.1750	0.0000	0.0000
4	2.3500	0.0000	0.0000
5	3.5250	0.0000	0.0000
6	4.7000	0.0000	0.0000
7	5.8750	0.0000	0.0000
8	7.0500	0.0000	0.0000
9	8.2250	0.0000	0.0000
10	9.4000	0.0000	0.0000
11	10.5750	0.0000	0.0000
12	11.7500	0.0000	0.0000
13	12.9250	0.0000	0.0000
14	14.1000	0.0000	0.0000
15	15.2750	0.0000	0.0000
16	16.4500	0.0000	0.0000
17	17.6250	0.0000	0.0000
18	18.8000	0.0000	0.0000
19	19.9750	0.0000	0.0000
20	21.1500	0.0000	0.0000
21	22.3250	0.0000	0.0000
22	22.5000	0.0000	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0000	0.0000
25	24.9500	0.0000	0.0000
26	26.4000	0.0000	0.0000
27	27.8500	0.0000	0.0000
28	29.3000	0.0000	0.0000
29	30.7500	0.0000	0.0000
30	32.2000	0.0000	0.0000
31	33.6500	0.0000	0.0000
32	35.1000	0.0000	0.0000
33	36.5500	0.0000	0.0000
34	38.0000	0.0000	0.0000
35	39.4500	0.0000	0.0000
36	40.9000	0.0000	0.0000
37	42.3500	0.0000	0.0000
38	43.8000	0.0000	0.0000
39	45.2500	0.0000	0.0000
40	46.7000	0.0000	0.0000
41	48.1500	-0.0063	0.0000
42	49.6000	-0.0041	0.0000
43	51.0500	0.0000	0.0000
44	51.5000	0.0000	0.0000
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0000	0.0000
47	53.9500	0.0000	0.0000
48	55.4000	0.0000	0.0000
49	56.8500	0.0000	0.0000
50	58.3000	0.0000	0.0000
51	59.7500	0.0000	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.GZ+
Envolvente de tren de cargas plano genérico. GZ
[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.0000	0.0000
53	62.6500	0.0000	0.0000
54	64.1000	0.0000	0.0000
55	65.5500	0.0000	0.0000
56	67.0000	0.0000	0.0000
57	68.4500	0.0000	0.0000
58	69.9000	0.0000	0.0000
59	71.3500	0.0000	0.0000
60	72.8000	0.0000	0.0000
61	74.2500	0.0000	0.0000
62	75.7000	-0.0030	0.0000
63	77.1500	-0.0086	0.0000
64	78.6000	-0.0056	0.0000
65	80.0500	-0.0014	0.0000
66	80.5000	0.0000	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	0.0000	0.0000
69	83.0750	0.0000	0.0000
70	84.6500	0.0000	0.0000
71	86.2250	0.0000	0.0000
72	87.8000	0.0000	0.0000
73	89.3750	0.0000	0.0000
74	90.9500	0.0000	0.0000
75	92.5250	0.0000	0.0000
76	94.1000	0.0000	0.0000
77	95.6750	0.0000	0.0000
78	97.2500	0.0000	0.0000
79	98.8250	0.0000	0.0000
80	100.4000	0.0000	0.0000
81	101.9750	0.0000	0.0000
82	103.5500	-0.0114	0.0000
83	105.1250	-0.0282	0.0001
84	106.7000	-0.0303	0.0001
85	108.2750	-0.0226	0.0001
86	109.8500	-0.0163	0.0001
87	111.4250	-0.0069	0.0001
88	112.0000	-0.0043	0.0001
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0000	0.0000
91	114.5750	0.0000	0.0000
92	116.1500	0.0000	0.0000
93	117.7250	0.0000	0.0000
94	119.3000	0.0000	0.0000
95	120.8750	0.0000	0.0000
96	122.4500	0.0000	0.0000
97	124.0250	0.0000	0.0000
98	125.6000	0.0000	0.0000
99	127.1750	0.0000	0.0000
100	128.7500	0.0000	0.0000
101	130.3250	0.0000	0.0000
102	131.9000	0.0000	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.GZ+

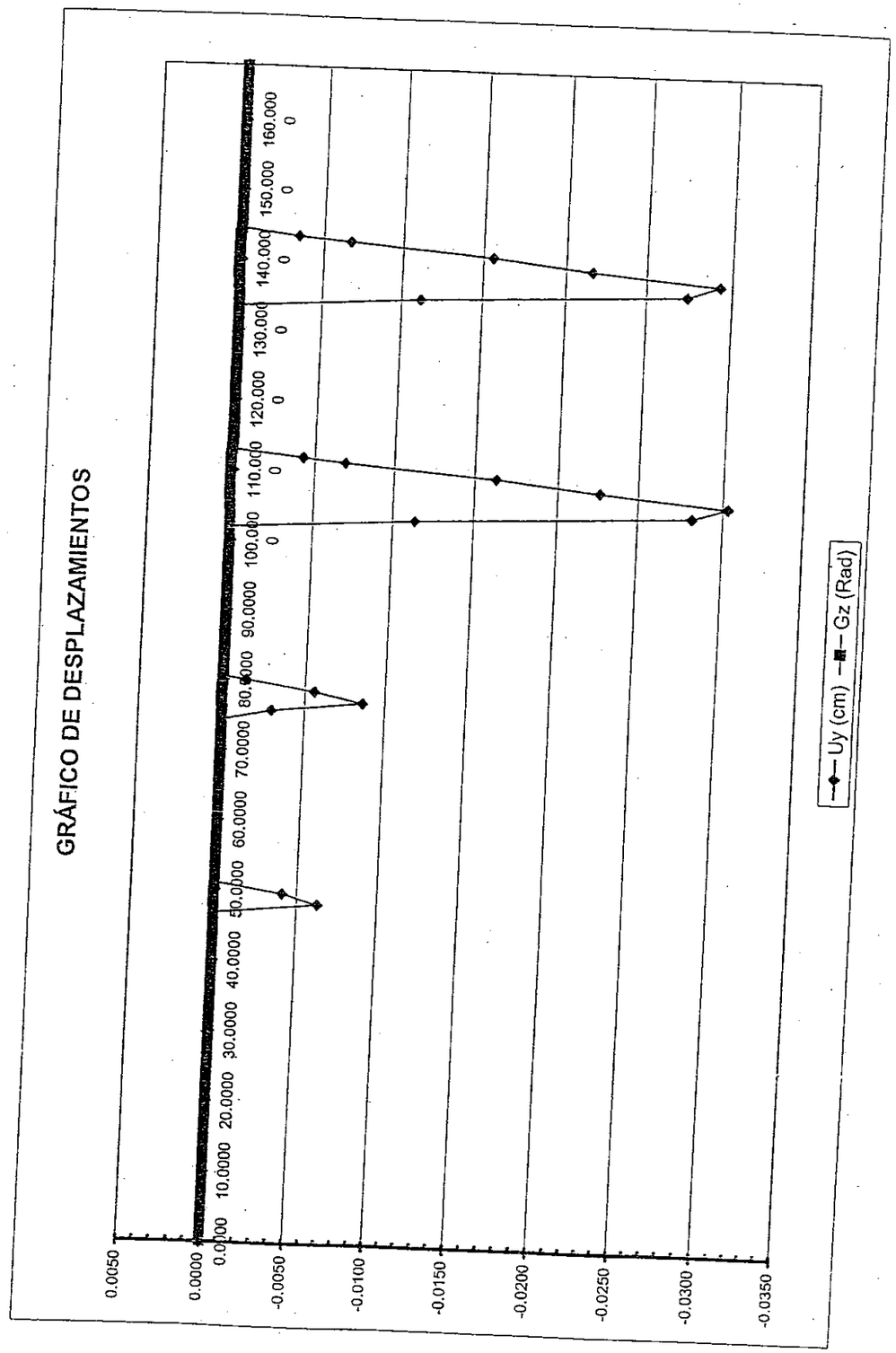
Envolvente de tren de cargas plano genérico. GZ

[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.0000	0.0000
104	135.0500	-0.0112	0.0000
105	136.6250	-0.0274	0.0001
106	138.2000	-0.0293	0.0001
107	139.7750	-0.0216	0.0001
108	141.3500	-0.0156	0.0001
109	142.9250	-0.0067	0.0001
110	143.5000	-0.0035	0.0001
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0000	0.0000
113	145.6750	0.0000	0.0000
114	146.8500	0.0000	0.0000
115	148.0250	0.0000	0.0000
116	149.2000	0.0000	0.0000
117	150.3750	0.0000	0.0000
118	151.5500	0.0000	0.0000
119	152.7250	0.0000	0.0000
120	153.9000	0.0000	0.0000
121	155.0750	0.0000	0.0000
122	156.2500	0.0000	0.0000
123	157.4250	0.0000	0.0000
124	158.6000	0.0000	0.0000
125	159.7750	0.0000	0.0000
126	160.9500	0.0000	0.0000
127	162.1250	0.0000	0.0000
128	163.3000	0.0000	0.0000
129	164.4750	0.0000	0.0000
130	165.6500	0.0000	0.0000
131	166.8250	0.0000	0.0000
132	167.0000	0.0000	0.0000
133	168.0000	0.0000	0.0000

Programa DINTEL IDEAM S.A.
SC1.ENV_TREN_GENERICO.GZ+



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.UY-
Envolvente de tren de cargas plano genérico. UY-
[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	-0.0053	0.0000
3	1.1750	-0.0063	0.0000
4	2.3500	-0.0132	0.0000
5	3.5250	-0.0191	0.0000
6	4.7000	-0.0248	0.0000
7	5.8750	-0.0296	0.0000
8	7.0500	-0.0337	0.0000
9	8.2250	-0.0364	0.0000
10	9.4000	-0.0391	0.0000
11	10.5750	-0.0402	0.0000
12	11.7500	-0.0404	0.0000
13	12.9250	-0.0395	0.0000
14	14.1000	-0.0378	0.0000
15	15.2750	-0.0350	0.0000
16	16.4500	-0.0318	0.0000
17	17.6250	-0.0277	0.0000
18	18.8000	-0.0222	0.0000
19	19.9750	-0.0172	0.0000
20	21.1500	-0.0111	0.0000
21	22.3250	-0.0056	0.0000
22	22.5000	-0.0050	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0053	0.0000
25	24.9500	-0.0078	0.0000
26	26.4000	-0.0179	0.0000
27	27.8500	-0.0271	0.0000
28	29.3000	-0.0368	0.0000
29	30.7500	-0.0450	0.0000
30	32.2000	-0.0525	0.0000
31	33.6500	-0.0588	0.0000
32	35.1000	-0.0633	0.0000
33	36.5500	-0.0663	0.0000
34	38.0000	-0.0678	0.0000
35	39.4500	-0.0669	0.0000
36	40.9000	-0.0646	0.0000
37	42.3500	-0.0606	0.0000
38	43.8000	-0.0547	0.0000
39	45.2500	-0.0477	0.0000
40	46.7000	-0.0388	0.0000
41	48.1500	-0.0299	0.0000
42	49.6000	-0.0200	0.0000
43	51.0500	-0.0095	0.0000
44	51.5000	-0.0067	0.0000
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	-0.0060	0.0000
47	53.9500	-0.0094	0.0000
48	55.4000	-0.0205	0.0000
49	56.8500	-0.0310	0.0000
50	58.3000	-0.0408	0.0000
51	59.7500	-0.0496	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.UY-
Envolvente de tren de cargas plano genérico. UY-
[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.0571	0.0000
53	62.6500	-0.0636	0.0000
54	64.1000	-0.0681	0.0000
55	65.5500	-0.0712	0.0000
56	67.0000	-0.0726	0.0000
57	68.4500	-0.0720	0.0000
58	69.9000	-0.0696	0.0000
59	71.3500	-0.0652	0.0000
60	72.8000	-0.0589	0.0000
61	74.2500	-0.0508	0.0000
62	75.7000	-0.0418	0.0000
63	77.1500	-0.0321	0.0000
64	78.6000	-0.0205	0.0000
65	80.0500	-0.0102	0.0000
66	80.5000	-0.0069	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	-0.0080	-0.0001
69	83.0750	-0.0128	-0.0001
70	84.6500	-0.0271	-0.0001
71	86.2250	-0.0417	-0.0001
72	87.8000	-0.0548	-0.0001
73	89.3750	-0.0666	-0.0001
74	90.9500	-0.0781	0.0000
75	92.5250	-0.0861	0.0000
76	94.1000	-0.0927	0.0000
77	95.6750	-0.0961	0.0000
78	97.2500	-0.0976	0.0000
79	98.8250	-0.0961	0.0000
80	100.4000	-0.0925	0.0000
81	101.9750	-0.0865	0.0000
82	103.5500	-0.0776	0.0000
83	105.1250	-0.0671	0.0001
84	106.7000	-0.0548	0.0001
85	108.2750	-0.0420	0.0001
86	109.8500	-0.0272	0.0001
87	111.4250	-0.0128	0.0001
88	112.0000	-0.0078	0.0001
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0082	-0.0001
91	114.5750	-0.0131	-0.0001
92	116.1500	-0.0272	-0.0001
93	117.7250	-0.0409	-0.0001
94	119.3000	-0.0534	-0.0001
95	120.8750	-0.0647	-0.0001
96	122.4500	-0.0750	0.0000
97	124.0250	-0.0831	0.0000
98	125.6000	-0.0887	0.0000
99	127.1750	-0.0918	0.0000
100	128.7500	-0.0929	0.0000
101	130.3250	-0.0910	0.0000
102	131.9000	-0.0870	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:

SC1.ENV_TREN_GENERICO.UY-

Envolvente de tren de cargas plano genérico. UY-

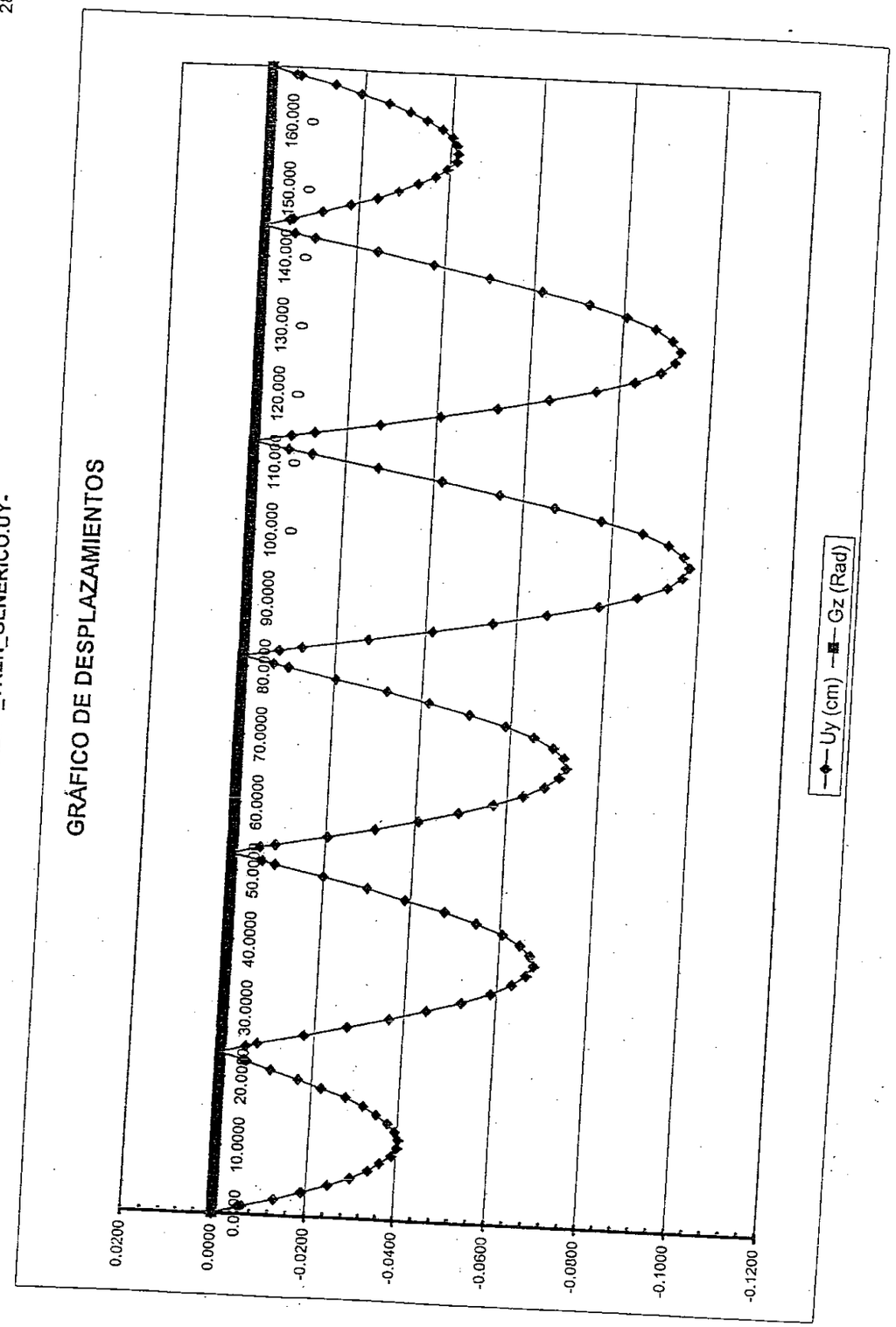
[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.0807	0.0000
104	135.0500	-0.0724	0.0000
105	136.6250	-0.0618	0.0001
106	138.2000	-0.0501	0.0001
107	139.7750	-0.0376	0.0001
108	141.3500	-0.0246	0.0001
109	142.9250	-0.0110	0.0001
110	143.5000	-0.0067	0.0001
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	-0.0054	0.0000
113	145.6750	-0.0061	0.0000
114	146.8500	-0.0122	0.0000
115	148.0250	-0.0182	0.0000
116	149.2000	-0.0239	0.0000
117	150.3750	-0.0286	0.0000
118	151.5500	-0.0331	0.0000
119	152.7250	-0.0369	0.0000
120	153.9000	-0.0394	0.0000
121	155.0750	-0.0415	0.0000
122	156.2500	-0.0417	0.0000
123	157.4250	-0.0414	0.0000
124	158.6000	-0.0403	0.0000
125	159.7750	-0.0380	0.0000
126	160.9500	-0.0344	0.0000
127	162.1250	-0.0305	0.0000
128	163.3000	-0.0254	0.0000
129	164.4750	-0.0193	0.0000
130	165.6500	-0.0137	0.0000
131	166.8250	-0.0063	0.0000
132	167.0000	-0.0053	0.0000
133	168.0000	0.0000	0.0000

Programa DINTEL IDEAM S.A.
SC1.ENV_TREN_GENERICO.UY-

GRÁFICO DE DESPLAZAMIENTOS



desp f7.xls

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.GZ-

Envolvente de tren de cargas plano genérico. GZ

[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0000	0.0000
3	1.1750	0.0000	0.0000
4	2.3500	0.0000	0.0000
5	3.5250	0.0000	0.0000
6	4.7000	0.0000	0.0000
7	5.8750	0.0000	0.0000
8	7.0500	0.0000	0.0000
9	8.2250	0.0000	0.0000
10	9.4000	0.0000	0.0000
11	10.5750	0.0000	0.0000
12	11.7500	0.0000	0.0000
13	12.9250	0.0000	0.0000
14	14.1000	0.0000	0.0000
15	15.2750	0.0000	0.0000
16	16.4500	0.0000	0.0000
17	17.6250	0.0000	0.0000
18	18.8000	0.0000	0.0000
19	19.9750	0.0000	0.0000
20	21.1500	0.0000	0.0000
21	22.3250	0.0000	0.0000
22	22.5000	0.0000	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0000	0.0000
25	24.9500	0.0000	0.0000
26	26.4000	-0.0027	0.0000
27	27.8500	-0.0021	0.0000
28	29.3000	0.0000	0.0000
29	30.7500	0.0000	0.0000
30	32.2000	0.0000	0.0000
31	33.6500	0.0000	0.0000
32	35.1000	0.0000	0.0000
33	36.5500	0.0000	0.0000
34	38.0000	0.0000	0.0000
35	39.4500	0.0000	0.0000
36	40.9000	0.0000	0.0000
37	42.3500	0.0000	0.0000
38	43.8000	0.0000	0.0000
39	45.2500	0.0000	0.0000
40	46.7000	0.0000	0.0000
41	48.1500	0.0000	0.0000
42	49.6000	0.0000	0.0000
43	51.0500	0.0000	0.0000
44	51.5000	0.0000	0.0000
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0000	0.0000
47	53.9500	0.0000	0.0000
48	55.4000	-0.0056	0.0000
49	56.8500	-0.0065	0.0000
50	58.3000	0.0000	0.0000
51	59.7500	0.0000	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.GZ-

Envolvente de tren de cargas plano genérico. GZ

[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.0000	0.0000
53	62.6500	0.0000	0.0000
54	64.1000	0.0000	0.0000
55	65.5500	0.0000	0.0000
56	67.0000	0.0000	0.0000
57	68.4500	0.0000	0.0000
58	69.9000	0.0000	0.0000
59	71.3500	0.0000	0.0000
60	72.8000	0.0000	0.0000
61	74.2500	0.0000	0.0000
62	75.7000	0.0000	0.0000
63	77.1500	0.0000	0.0000
64	78.6000	0.0000	0.0000
65	80.0500	0.0000	0.0000
66	80.5000	0.0000	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	-0.0042	-0.0001
69	83.0750	-0.0068	-0.0001
70	84.6500	-0.0160	-0.0001
71	86.2250	-0.0223	-0.0001
72	87.8000	-0.0300	-0.0001
73	89.3750	-0.0279	-0.0001
74	90.9500	-0.0114	0.0000
75	92.5250	0.0000	0.0000
76	94.1000	0.0000	0.0000
77	95.6750	0.0000	0.0000
78	97.2500	0.0000	0.0000
79	98.8250	0.0000	0.0000
80	100.4000	0.0000	0.0000
81	101.9750	0.0000	0.0000
82	103.5500	0.0000	0.0000
83	105.1250	0.0000	0.0000
84	106.7000	0.0000	0.0000
85	108.2750	0.0000	0.0000
86	109.8500	0.0000	0.0000
87	111.4250	0.0000	0.0000
88	112.0000	0.0000	0.0000
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0043	-0.0001
91	114.5750	-0.0069	-0.0001
92	116.1500	-0.0163	-0.0001
93	117.7250	-0.0223	-0.0001
94	119.3000	-0.0300	-0.0001
95	120.8750	-0.0239	-0.0001
96	122.4500	-0.0113	0.0000
97	124.0250	0.0000	0.0000
98	125.6000	0.0000	0.0000
99	127.1750	0.0000	0.0000
100	128.7500	0.0000	0.0000
101	130.3250	0.0000	0.0000
102	131.9000	0.0000	0.0000

CÁLCULO DE DESPLAZAMIENTOS

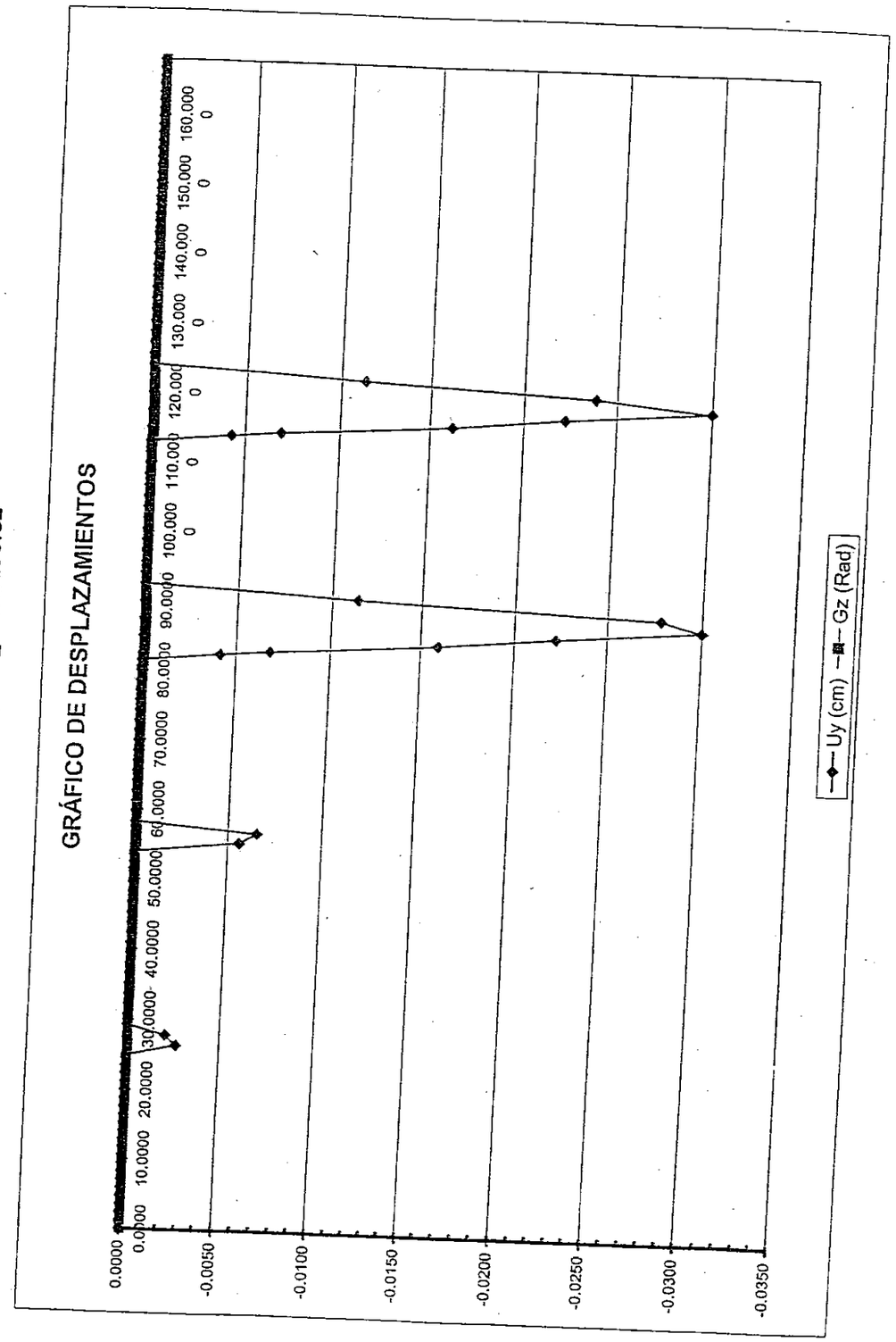
Hipótesis de cálculo:
SC1.ENV_TREN_GENERICO.GZ-

Envolvente de tren de cargas plano genérico. GZ

[0; 1]SC1.SCuniTpos.Barra1.Mx+ + [0; 1]SC1.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.0000	0.0000
104	135.0500	0.0000	0.0000
105	136.6250	0.0000	0.0000
106	138.2000	0.0000	0.0000
107	139.7750	0.0000	0.0000
108	141.3500	0.0000	0.0000
109	142.9250	0.0000	0.0000
110	143.5000	0.0000	0.0000
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0000	0.0000
113	145.6750	0.0000	0.0000
114	146.8500	0.0000	0.0000
115	148.0250	0.0000	0.0000
116	149.2000	0.0000	0.0000
117	150.3750	0.0000	0.0000
118	151.5500	0.0000	0.0000
119	152.7250	0.0000	0.0000
120	153.9000	0.0000	0.0000
121	155.0750	0.0000	0.0000
122	156.2500	0.0000	0.0000
123	157.4250	0.0000	0.0000
124	158.6000	0.0000	0.0000
125	159.7750	0.0000	0.0000
126	160.9500	0.0000	0.0000
127	162.1250	0.0000	0.0000
128	163.3000	0.0000	0.0000
129	164.4750	0.0000	0.0000
130	165.6500	0.0000	0.0000
131	166.8250	0.0000	0.0000
132	167.0000	0.0000	0.0000
133	168.0000	0.0000	0.0000



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.UY+

Envolvente de tren de cargas plano genérico. UY

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0186	0.0002
3	1.1750	0.0218	0.0002
4	2.3500	0.0434	0.0002
5	3.5250	0.0642	0.0002
6	4.7000	0.0837	0.0001
7	5.8750	0.1027	0.0001
8	7.0500	0.1194	0.0001
9	8.2250	0.1346	0.0001
10	9.4000	0.1472	0.0001
11	10.5750	0.1576	0.0001
12	11.7500	0.1651	0.0000
13	12.9250	0.1692	0.0000
14	14.1000	0.1701	0.0000
15	15.2750	0.1669	0.0000
16	16.4500	0.1597	-0.0001
17	17.6250	0.1481	-0.0001
18	18.8000	0.1315	-0.0001
19	19.9750	0.1099	-0.0002
20	21.1500	0.0823	-0.0002
21	22.3250	0.0473	-0.0003
22	22.5000	0.0411	-0.0003
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0388	0.0004
25	24.9500	0.0564	0.0004
26	26.4000	0.1045	0.0003
27	27.8500	0.1480	0.0003
28	29.3000	0.1870	0.0003
29	30.7500	0.2211	0.0002
30	32.2000	0.2502	0.0001
31	33.6500	0.2735	0.0001
32	35.1000	0.2917	0.0001
33	36.5500	0.3038	0.0001
34	38.0000	0.3104	0.0000
35	39.4500	0.3106	0.0000
36	40.9000	0.3042	-0.0001
37	42.3500	0.2918	-0.0001
38	43.8000	0.2725	-0.0001
39	45.2500	0.2468	-0.0002
40	46.7000	0.2145	-0.0003
41	48.1500	0.1745	-0.0003
42	49.6000	0.1279	-0.0004
43	51.0500	0.0709	-0.0004
44	51.5000	0.0511	-0.0005
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0532	0.0005
47	53.9500	0.0745	0.0004
48	55.4000	0.1388	0.0004
49	56.8500	0.1935	0.0003
50	58.3000	0.2428	0.0003
51	59.7500	0.2842	0.0003

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.UY+

Envolvente de tren de cargas plano genérico. UY

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.3205	0.0002
53	62.6500	0.3484	0.0001
54	64.1000	0.3701	0.0001
55	65.5500	0.3838	0.0001
56	67.0000	0.3902	0.0001
57	68.4500	0.3894	-0.0001
58	69.9000	0.3806	-0.0001
59	71.3500	0.3644	-0.0001
60	72.8000	0.3400	-0.0002
61	74.2500	0.3073	-0.0003
62	75.7000	0.2670	-0.0003
63	77.1500	0.2175	-0.0004
64	78.6000	0.1596	-0.0004
65	80.0500	0.0889	-0.0005
66	80.5000	0.0641	-0.0006
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	0.0569	0.0005
69	83.0750	0.0863	0.0005
70	84.6500	0.1587	0.0004
71	86.2250	0.2202	0.0003
72	87.8000	0.2745	0.0003
73	89.3750	0.3214	0.0003
74	90.9500	0.3600	0.0002
75	92.5250	0.3907	0.0001
76	94.1000	0.4136	0.0001
77	95.6750	0.4281	0.0001
78	97.2500	0.4345	0.0001
79	98.8250	0.4325	-0.0001
80	100.4000	0.4212	-0.0001
81	101.9750	0.4020	-0.0001
82	103.5500	0.3737	-0.0002
83	105.1250	0.3375	-0.0003
84	106.7000	0.2917	-0.0003
85	108.2750	0.2377	-0.0004
86	109.8500	0.1733	-0.0004
87	111.4250	0.0957	-0.0005
88	112.0000	0.0637	-0.0006
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0632	0.0006
91	114.5750	0.0945	0.0005
92	116.1500	0.1675	0.0004
93	117.7250	0.2265	0.0003
94	119.3000	0.2749	0.0003
95	120.8750	0.3146	0.0003
96	122.4500	0.3454	0.0001
97	124.0250	0.3672	0.0001
98	125.6000	0.3809	0.0001
99	127.1750	0.3863	0.0000
100	128.7500	0.3845	-0.0001
101	130.3250	0.3748	-0.0001
102	131.9000	0.3577	-0.0001

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:

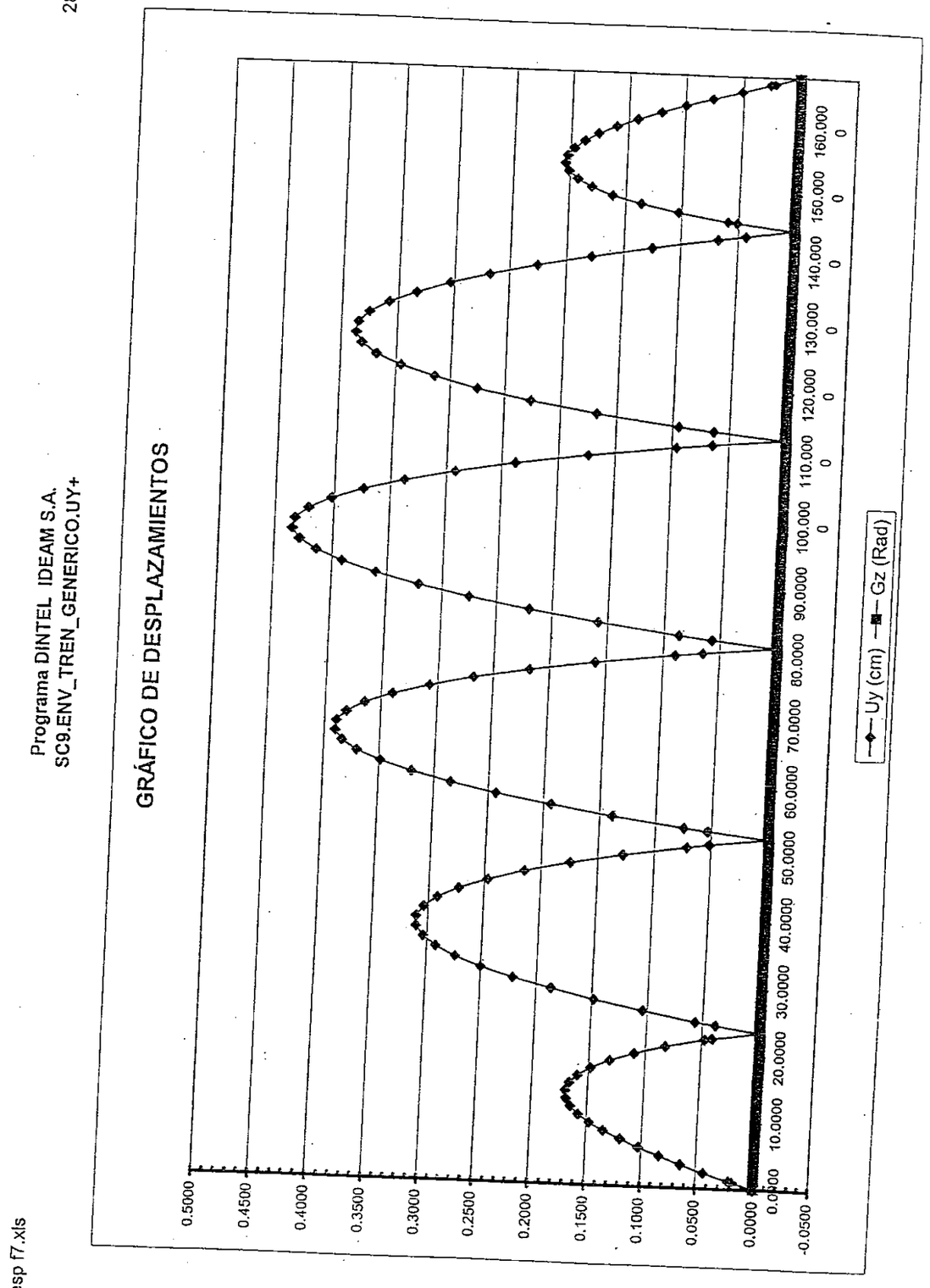
SC9.ENV_TREN_GENERICO.UY+

Envolvente de tren de cargas plano genérico. UY

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.3340	-0.0001
104	135.0500	0.3036	-0.0002
105	136.6250	0.2677	-0.0002
106	138.2000	0.2253	-0.0003
107	139.7750	0.1779	-0.0003
108	141.3500	0.1250	-0.0003
109	142.9250	0.0668	-0.0004
110	143.5000	0.0430	-0.0004
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0511	0.0004
113	145.6750	0.0589	0.0004
114	146.8500	0.1029	0.0003
115	148.0250	0.1364	0.0002
116	149.2000	0.1615	0.0002
117	150.3750	0.1802	0.0001
118	151.5500	0.1930	0.0001
119	152.7250	0.2009	0.0000
120	153.9000	0.2042	0.0000
121	155.0750	0.2025	0.0000
122	156.2500	0.1969	0.0000
123	157.4250	0.1877	-0.0001
124	158.6000	0.1757	-0.0001
125	159.7750	0.1599	-0.0001
126	160.9500	0.1421	-0.0002
127	162.1250	0.1214	-0.0002
128	163.3000	0.0997	-0.0002
129	164.4750	0.0760	-0.0002
130	165.6500	0.0509	-0.0002
131	166.8250	0.0260	-0.0002
132	167.0000	0.0218	-0.0002
133	168.0000	0.0000	0.0000



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.GZ+

Envolvente de tren de cargas plano genérico. GZ

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0002
2	1.0000	0.0163	0.0002
3	1.1750	0.0191	0.0002
4	2.3500	0.0379	0.0002
5	3.5250	0.0561	0.0002
6	4.7000	0.0710	0.0001
7	5.8750	0.0868	0.0001
8	7.0500	0.0969	0.0001
9	8.2250	0.1092	0.0001
10	9.4000	0.0992	0.0001
11	10.5750	0.0683	0.0001
12	11.7500	-0.1266	0.0001
13	12.9250	-0.2080	0.0001
14	14.1000	-0.2388	0.0002
15	15.2750	-0.2557	0.0002
16	16.4500	-0.2382	0.0003
17	17.6250	-0.2106	0.0003
18	18.8000	-0.1711	0.0004
19	19.9750	-0.1311	0.0004
20	21.1500	-0.0858	0.0004
21	22.3250	-0.0453	0.0004
22	22.5000	-0.0388	0.0005
23	23.5000	0.0000	0.0004
1023	23.5000	0.0000	0.0004
24	24.5000	0.0365	0.0004
25	24.9500	0.0519	0.0004
26	26.4000	0.0941	0.0003
27	27.8500	0.1288	0.0003
28	29.3000	0.1533	0.0003
29	30.7500	0.1464	0.0002
30	32.2000	0.0975	0.0001
31	33.6500	0.1128	0.0001
32	35.1000	0.1132	0.0001
33	36.5500	0.1151	0.0001
34	38.0000	-0.1543	0.0001
35	39.4500	-0.3058	0.0001
36	40.9000	-0.4120	0.0002
37	42.3500	-0.4464	0.0003
38	43.8000	-0.4345	0.0004
39	45.2500	-0.3817	0.0005
40	46.7000	-0.3108	0.0005
41	48.1500	-0.2338	0.0006
42	49.6000	-0.1529	0.0006
43	51.0500	-0.0816	0.0006
44	51.5000	-0.0557	0.0006
45	52.5000	0.0000	0.0006
1045	52.5000	0.0000	0.0006
46	53.5000	0.0506	0.0005
47	53.9500	0.0710	0.0004
48	55.4000	0.1300	0.0004
49	56.8500	0.1811	0.0003
50	58.3000	0.2175	0.0003
51	59.7500	0.2337	0.0003

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.GZ+

Envolvente de tren de cargas plano genérico. GZ

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.1289	0.0002
53	62.6500	0.1437	0.0001
54	64.1000	0.1547	0.0001
55	65.5500	0.1603	0.0001
56	67.0000	-0.1059	0.0002
57	68.4500	-0.3164	0.0001
58	69.9000	-0.4339	0.0002
59	71.3500	-0.4625	0.0003
60	72.8000	-0.4511	0.0004
61	74.2500	-0.3969	0.0005
62	75.7000	-0.3244	0.0005
63	77.1500	-0.2444	0.0006
64	78.6000	-0.1604	0.0006
65	80.0500	-0.0847	0.0007
66	80.5000	-0.0581	0.0007
67	81.5000	0.0000	0.0006
1067	81.5000	0.0000	0.0006
68	82.5000	0.0529	0.0005
69	83.0750	0.0809	0.0005
70	84.6500	0.1461	0.0004
71	86.2250	0.2034	0.0003
72	87.8000	0.2435	0.0003
73	89.3750	0.2608	0.0003
74	90.9500	0.1413	0.0002
75	92.5250	0.1577	0.0001
76	94.1000	0.1701	0.0001
77	95.6750	0.1763	0.0001
78	97.2500	-0.1823	0.0002
79	98.8250	-0.5149	0.0002
80	100.4000	-0.6005	0.0003
81	101.9750	-0.6708	0.0004
82	103.5500	-0.6227	0.0005
83	105.1250	-0.5477	0.0006
84	106.7000	-0.4467	0.0007
85	108.2750	-0.3366	0.0007
86	109.8500	-0.2203	0.0008
87	111.4250	-0.1041	0.0007
88	112.0000	-0.0635	0.0007
89	113.0000	0.0000	0.0007
1089	113.0000	0.0000	0.0007
90	114.0000	0.0579	0.0006
91	114.5750	0.0864	0.0005
92	116.1500	0.1530	0.0004
93	117.7250	0.2027	0.0003
94	119.3000	0.2397	0.0003
95	120.8750	0.2576	0.0003
96	122.4500	0.1281	0.0001
97	124.0250	0.0828	0.0001
98	125.6000	0.0709	0.0001
99	127.1750	-0.0405	0.0000
100	128.7500	-0.3176	0.0001
101	130.3250	-0.5093	0.0002
102	131.9000	-0.6388	0.0003

Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.GZ+

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CÁLCULO DE DESPLAZAMIENTOS

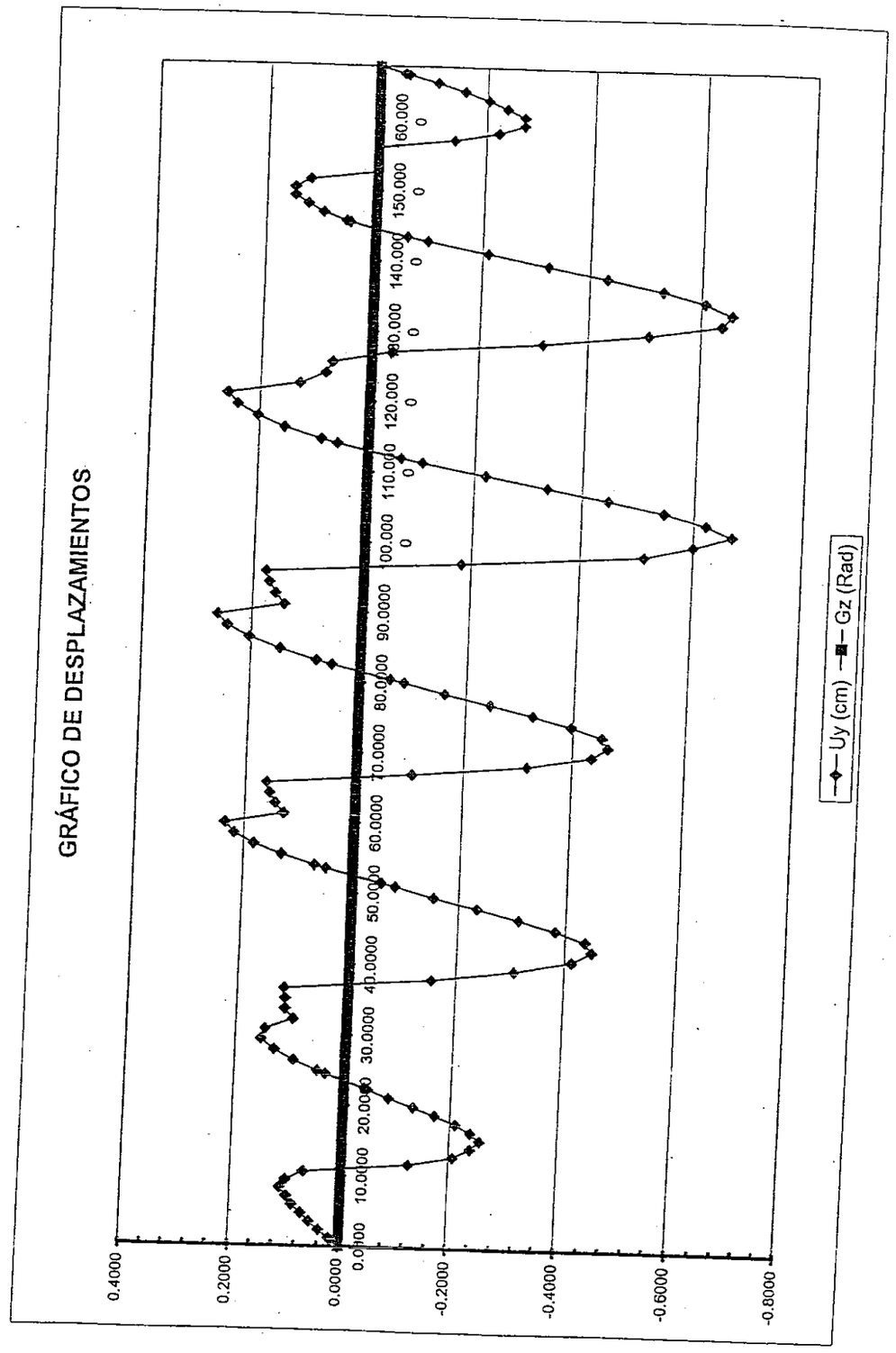
Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.GZ+
Envolvente de tren de cargas plano genérico. GZ
[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.6569	0.0004
104	135.0500	-0.6072	0.0005
105	136.6250	-0.5318	0.0006
106	138.2000	-0.4319	0.0007
107	139.7750	-0.3238	0.0007
108	141.3500	-0.2109	0.0007
109	142.9250	-0.0992	0.0007
110	143.5000	-0.0606	0.0007
111	144.5000	0.0000	0.0006
1111	144.5000	0.0000	0.0006
112	145.5000	0.0483	0.0004
113	145.6750	0.0553	0.0004
114	146.8500	0.0967	0.0003
115	148.0250	0.1254	0.0002
116	149.2000	0.1489	0.0002
117	150.3750	0.1492	0.0001
118	151.5500	0.1217	0.0001
119	152.7250	0.0000	0.0000
120	153.9000	0.0000	0.0000
121	155.0750	0.0000	0.0000
122	156.2500	0.0000	0.0000
123	157.4250	-0.1432	0.0001
124	158.6000	-0.2225	0.0001
125	159.7750	-0.2694	0.0002
126	160.9500	-0.2694	0.0003
127	162.1250	-0.2370	0.0003
128	163.3000	-0.2036	0.0004
129	164.4750	-0.1600	0.0004
130	165.6500	-0.1095	0.0005
131	166.8250	-0.0554	0.0005
132	167.0000	-0.0473	0.0005
133	168.0000	0.0000	0.0005

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Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.GZ+

GRÁFICO DE DESPLAZAMIENTOS



desp f7.xls

Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.UY-

desp f7.xls

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.UY-

Envolvente de tren de cargas plano genérico. UY

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	-0.0511	-0.0005
3	1.1750	-0.0601	-0.0005
4	2.3500	-0.1185	-0.0004
5	3.5250	-0.1732	-0.0004
6	4.7000	-0.2235	-0.0004
7	5.8750	-0.2672	-0.0003
8	7.0500	-0.3043	-0.0003
9	8.2250	-0.3328	-0.0002
10	9.4000	-0.3531	-0.0001
11	10.5750	-0.3644	-0.0001
12	11.7500	-0.3660	0.0001
13	12.9250	-0.3597	0.0001
14	14.1000	-0.3441	0.0002
15	15.2750	-0.3202	0.0002
16	16.4500	-0.2885	0.0003
17	17.6250	-0.2496	0.0003
18	18.8000	-0.2059	0.0004
19	19.9750	-0.1568	0.0004
20	21.1500	-0.1050	0.0004
21	22.3250	-0.0514	0.0004
22	22.5000	-0.0435	0.0005
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0508	-0.0005
25	24.9500	-0.0759	-0.0005
26	26.4000	-0.1608	-0.0006
27	27.8500	-0.2469	-0.0005
28	29.3000	-0.3296	-0.0005
29	30.7500	-0.4063	-0.0005
30	32.2000	-0.4743	-0.0004
31	33.6500	-0.5303	-0.0003
32	35.1000	-0.5722	-0.0002
33	36.5500	-0.5993	-0.0001
34	38.0000	-0.6103	0.0000
35	39.4500	-0.6053	0.0001
36	40.9000	-0.5841	0.0002
37	42.3500	-0.5470	0.0003
38	43.8000	-0.4953	0.0004
39	45.2500	-0.4305	0.0005
40	46.7000	-0.3547	0.0005
41	48.1500	-0.2704	0.0006
42	49.6000	-0.1799	0.0006
43	51.0500	-0.0878	0.0006
44	51.5000	-0.0596	0.0006
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	-0.0597	-0.0005
47	53.9500	-0.0876	-0.0005
48	55.4000	-0.1829	-0.0006
49	56.8500	-0.2763	-0.0006
50	58.3000	-0.3654	-0.0005
51	59.7500	-0.4462	-0.0005

Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.UY-

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.UY-

Envolvente de tren de cargas plano genérico. UY

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.5173	-0.0004
53	62.6500	-0.5755	-0.0003
54	64.1000	-0.6181	-0.0002
55	65.5500	-0.6452	-0.0001
56	67.0000	-0.6556	0.0000
57	68.4500	-0.6482	0.0001
58	69.9000	-0.6244	0.0002
59	71.3500	-0.5843	0.0003
60	72.8000	-0.5283	0.0004
61	74.2500	-0.4588	0.0005
62	75.7000	-0.3783	0.0005
63	77.1500	-0.2887	0.0006
64	78.6000	-0.1927	0.0006
65	80.0500	-0.0945	0.0007
66	80.5000	-0.0636	0.0007
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	-0.0737	-0.0008
69	83.0750	-0.1195	-0.0008
70	84.6500	-0.2480	-0.0007
71	86.2250	-0.3750	-0.0007
72	87.8000	-0.4952	-0.0007
73	89.3750	-0.6046	-0.0006
74	90.9500	-0.6994	-0.0005
75	92.5250	-0.7758	-0.0004
76	94.1000	-0.8328	-0.0003
77	95.6750	-0.8679	-0.0002
78	97.2500	-0.8794	0.0000
79	98.8250	-0.8672	0.0002
80	100.4000	-0.8337	0.0003
81	101.9750	-0.7766	0.0004
82	103.5500	-0.6995	0.0005
83	105.1250	-0.6049	0.0006
84	106.7000	-0.4958	0.0007
85	108.2750	-0.3758	0.0007
86	109.8500	-0.2489	0.0008
87	111.4250	-0.1192	0.0007
88	112.0000	-0.0737	0.0007
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0732	-0.0007
91	114.5750	-0.1182	-0.0008
92	116.1500	-0.2443	-0.0007
93	117.7250	-0.3681	-0.0007
94	119.3000	-0.4834	-0.0007
95	120.8750	-0.5874	-0.0006
96	122.4500	-0.6769	-0.0005
97	124.0250	-0.7484	-0.0004
98	125.6000	-0.8001	-0.0003
99	127.1750	-0.8301	-0.0002
100	128.7500	-0.8378	0.0000
101	130.3250	-0.8230	0.0002
102	131.9000	-0.7860	0.0003

Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.UY-

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.UY-

Envolvente de tren de cargas plano genérico. UY

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0

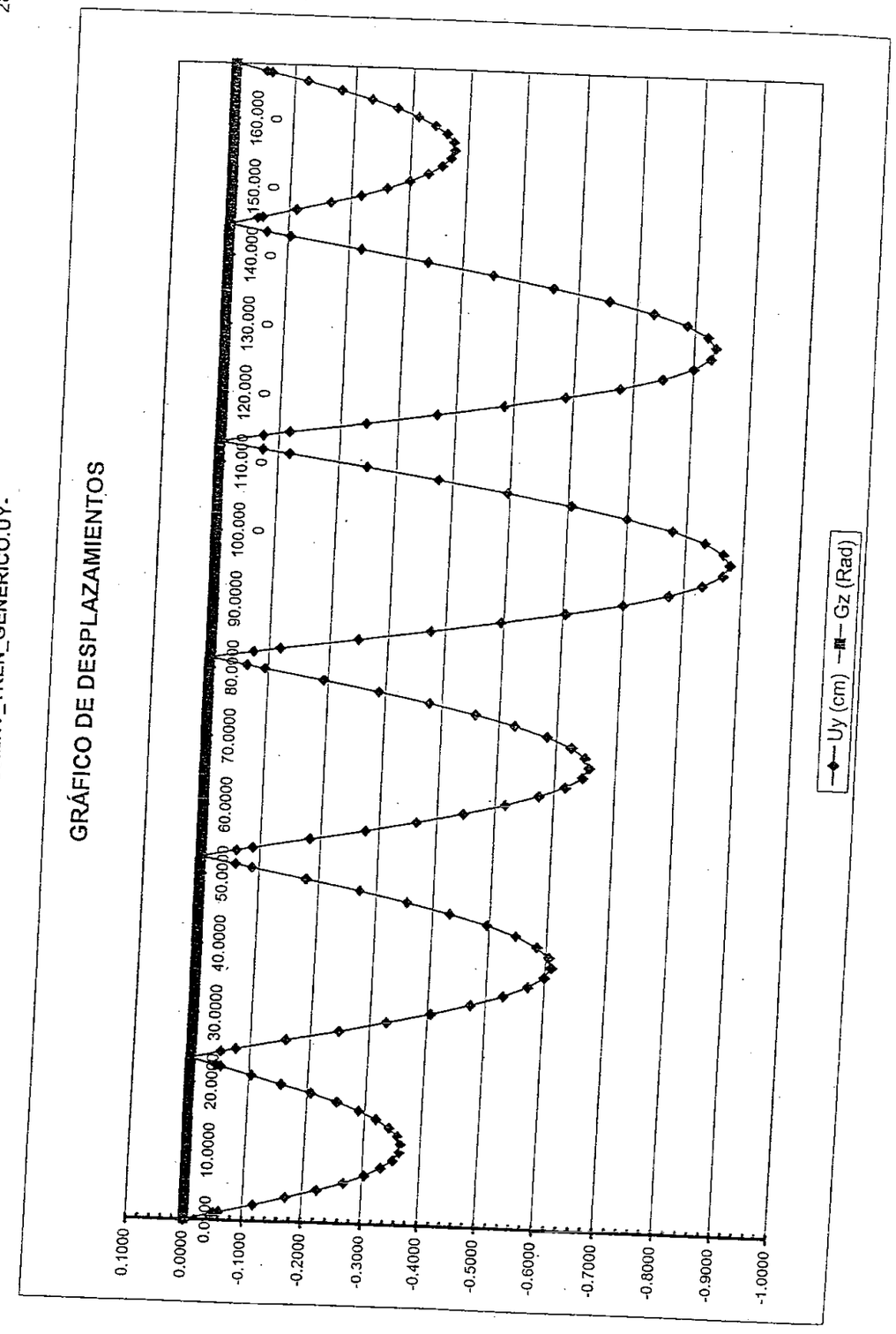
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.7288	0.0004
104	135.0500	-0.6524	0.0005
105	136.6250	-0.5593	0.0006
106	138.2000	-0.4535	0.0007
107	139.7750	-0.3398	0.0007
108	141.3500	-0.2217	0.0007
109	142.9250	-0.1042	0.0007
110	143.5000	-0.0638	0.0007
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	-0.0468	-0.0005
113	145.6750	-0.0552	-0.0005
114	146.8500	-0.1122	-0.0004
115	148.0250	-0.1669	-0.0004
116	149.2000	-0.2173	-0.0004
117	150.3750	-0.2624	-0.0003
118	151.5500	-0.3008	-0.0003
119	152.7250	-0.3332	-0.0002
120	153.9000	-0.3570	-0.0002
121	155.0750	-0.3722	-0.0001
122	156.2500	-0.3785	-0.0001
123	157.4250	-0.3759	0.0001
124	158.6000	-0.3637	0.0001
125	159.7750	-0.3423	0.0002
126	160.9500	-0.3123	0.0003
127	162.1250	-0.2745	0.0003
128	163.3000	-0.2295	0.0004
129	164.4750	-0.1773	0.0004
130	165.6500	-0.1213	0.0005
131	166.8250	-0.0614	0.0005
132	167.0000	-0.0520	0.0005
133	168.0000	0.0000	0.0000

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Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.UY-

GRÁFICO DE DESPLAZAMIENTOS



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Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.GZ-

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.GZ-

Envolvente de tren de cargas plano genérico. GZ

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	-0.0005
2	1.0000	-0.0467	-0.0005
3	1.1750	-0.0548	-0.0005
4	2.3500	-0.1079	-0.0004
5	3.5250	-0.1573	-0.0004
6	4.7000	-0.2000	-0.0004
7	5.8750	-0.2330	-0.0003
8	7.0500	-0.2650	-0.0003
9	8.2250	-0.2643	-0.0002
10	9.4000	-0.2103	-0.0001
11	10.5750	-0.1398	-0.0001
12	11.7500	0.0000	0.0000
13	12.9250	0.0000	0.0000
14	14.1000	0.0000	0.0000
15	15.2750	0.0000	0.0000
16	16.4500	0.0895	-0.0001
17	17.6250	0.1201	-0.0001
18	18.8000	0.1112	-0.0001
19	19.9750	0.0991	-0.0002
20	21.1500	0.0745	-0.0002
21	22.3250	0.0434	-0.0003
22	22.5000	0.0378	-0.0003
23	23.5000	0.0000	-0.0004
1023	23.5000	0.0000	-0.0004
24	24.5000	-0.0473	-0.0005
25	24.9500	-0.0709	-0.0005
26	26.4000	-0.1501	-0.0006
27	27.8500	-0.2302	-0.0005
28	29.3000	-0.3072	-0.0005
29	30.7500	-0.3779	-0.0005
30	32.2000	-0.4313	-0.0004
31	33.6500	-0.4443	-0.0003
32	35.1000	-0.4189	-0.0002
33	36.5500	-0.3068	-0.0001
34	38.0000	-0.2243	-0.0001
35	39.4500	0.0000	0.0000
36	40.9000	0.0558	-0.0001
37	42.3500	0.0621	-0.0001
38	43.8000	0.0630	-0.0001
39	45.2500	0.1806	-0.0002
40	46.7000	0.1790	-0.0003
41	48.1500	0.1538	-0.0003
42	49.6000	0.1115	-0.0004
43	51.0500	0.0629	-0.0004
44	51.5000	0.0448	-0.0005
45	52.5000	0.0000	-0.0005
1045	52.5000	0.0000	-0.0005
46	53.5000	-0.0496	-0.0005
47	53.9500	-0.0738	-0.0005
48	55.4000	-0.1565	-0.0006
49	56.8500	-0.2394	-0.0006
50	58.3000	-0.3193	-0.0005
51	59.7500	-0.3920	-0.0005

Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.GZ-

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.GZ-

Envolvente de tren de cargas plano genérico. GZ

[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.4467	-0.0004
53	62.6500	-0.4827	-0.0003
54	64.1000	-0.4336	-0.0002
55	65.5500	-0.3647	-0.0001
56	67.0000	-0.2326	-0.0001
57	68.4500	0.1160	-0.0001
58	69.9000	0.1139	-0.0001
59	71.3500	0.1144	-0.0001
60	72.8000	0.1671	-0.0002
61	74.2500	0.2587	-0.0003
62	75.7000	0.2403	-0.0003
63	77.1500	0.2002	-0.0004
64	78.6000	0.1483	-0.0004
65	80.0500	0.0831	-0.0005
66	80.5000	0.0596	-0.0006
67	81.5000	0.0000	-0.0007
1067	81.5000	0.0000	-0.0007
68	82.5000	-0.0676	-0.0008
69	83.0750	-0.1070	-0.0008
70	84.6500	-0.2167	-0.0007
71	86.2250	-0.3317	-0.0007
72	87.8000	-0.4420	-0.0007
73	89.3750	-0.5431	-0.0006
74	90.9500	-0.6186	-0.0005
75	92.5250	-0.6680	-0.0004
76	94.1000	-0.6486	-0.0003
77	95.6750	-0.5161	-0.0002
78	97.2500	-0.2755	-0.0001
79	98.8250	0.1304	-0.0001
80	100.4000	0.1363	-0.0001
81	101.9750	0.1282	-0.0001
82	103.5500	0.2034	-0.0002
83	105.1250	0.2895	-0.0003
84	106.7000	0.2647	-0.0003
85	108.2750	0.2209	-0.0004
86	109.8500	0.1639	-0.0004
87	111.4250	0.0910	-0.0005
88	112.0000	0.0606	-0.0006
89	113.0000	0.0000	-0.0007
1089	113.0000	0.0000	-0.0007
90	114.0000	-0.0685	-0.0007
91	114.5750	-0.1093	-0.0008
92	116.1500	-0.2180	-0.0007
93	117.7250	-0.3329	-0.0007
94	119.3000	-0.4419	-0.0007
95	120.8750	-0.5415	-0.0006
96	122.4500	-0.6153	-0.0005
97	124.0250	-0.6624	-0.0004
98	125.6000	-0.5921	-0.0003
99	127.1750	-0.5072	-0.0002
100	128.7500	-0.1771	-0.0002
101	130.3250	0.1757	-0.0001
102	131.9000	0.1691	-0.0001

Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.GZ-

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CÁLCULO DE DESPLAZAMIENTOS

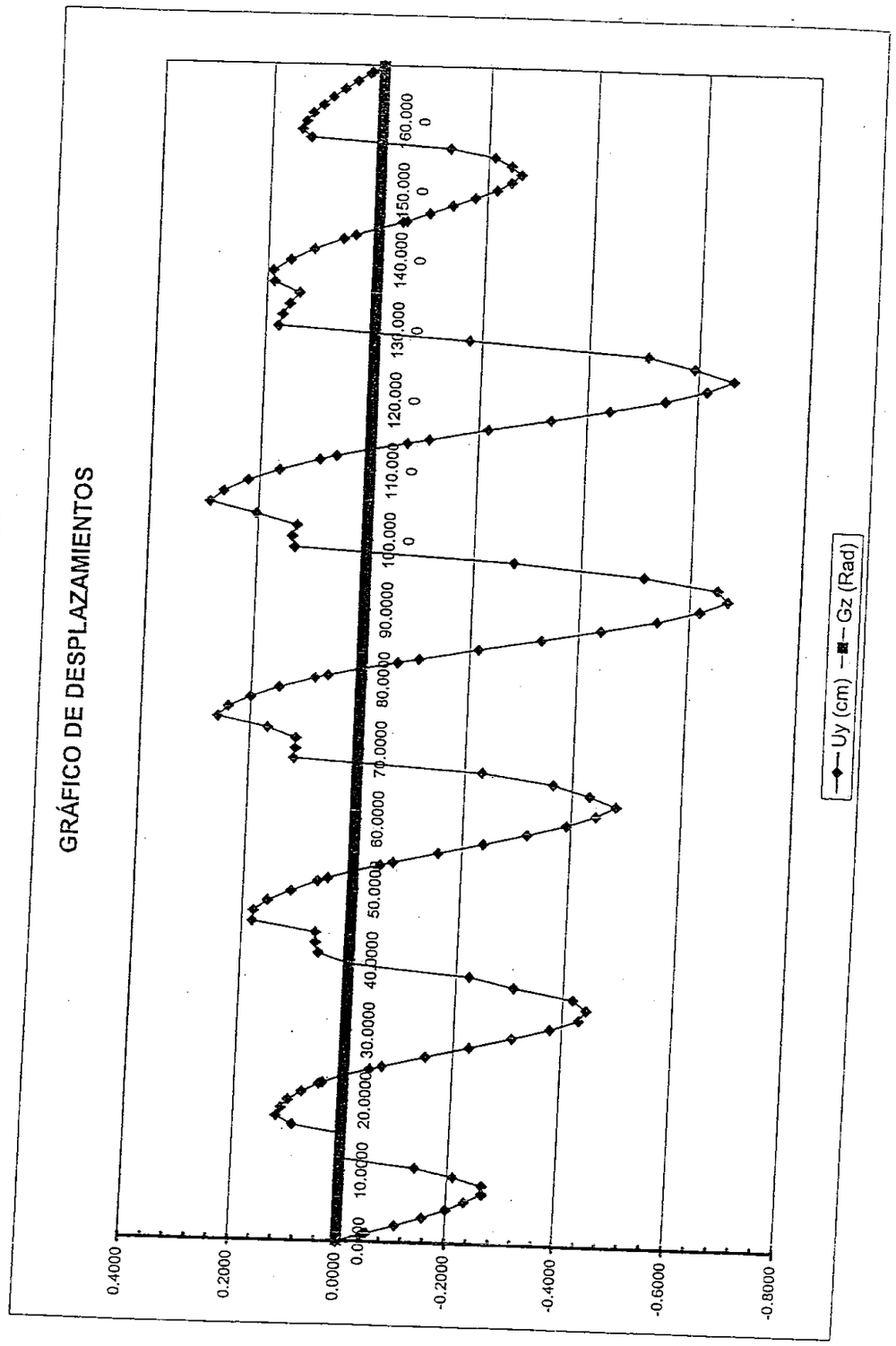
Hipótesis de cálculo:
SC9.ENV_TREN_GENERICO.GZ-
Envolvente de tren de cargas plano genérico. GZ
[0; 1]SC9.SCuniTpos.Barra1.Mx+ + [0; 1]SC9.SCuniTpos.Barra2.Mx+ + [0
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.1568	-0.0001
104	135.0500	0.1402	-0.0002
105	136.6250	0.1862	-0.0002
106	138.2000	0.1894	-0.0003
107	139.7750	0.1578	-0.0003
108	141.3500	0.1158	-0.0003
109	142.9250	0.0631	-0.0004
110	143.5000	0.0408	-0.0004
111	144.5000	0.0000	-0.0005
1111	144.5000	0.0000	-0.0005
112	145.5000	-0.0432	-0.0005
113	145.6750	-0.0512	-0.0005
114	146.8500	-0.0945	-0.0004
115	148.0250	-0.1366	-0.0004
116	149.2000	-0.1772	-0.0004
117	150.3750	-0.2177	-0.0003
118	151.5500	-0.2448	-0.0003
119	152.7250	-0.2621	-0.0002
120	153.9000	-0.2440	-0.0002
121	155.0750	-0.2120	-0.0001
122	156.2500	-0.1289	-0.0001
123	157.4250	0.1290	-0.0001
124	158.6000	0.1452	-0.0001
125	159.7750	0.1381	-0.0001
126	160.9500	0.1268	-0.0002
127	162.1250	0.1086	-0.0002
128	163.3000	0.0917	-0.0002
129	164.4750	0.0699	-0.0002
130	165.6500	0.0471	-0.0002
131	166.8250	0.0238	-0.0002
132	167.0000	0.0202	-0.0002
133	168.0000	0.0000	-0.0002

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Programa DINTEL IDEAM S.A.
SC9.ENV_TREN_GENERICO.GZ-

GRÁFICO DE DESPLAZAMIENTOS



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Programa DINTEL IDEAM S.A.
TREN30.EnvTrenGen.UY+

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.UY+

Envolvente de tren de cargas plano genérico. UY

[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0034	0.0000
3	1.1750	0.0040	0.0000
4	2.3500	0.0079	0.0000
5	3.5250	0.0116	0.0000
6	4.7000	0.0152	0.0000
7	5.8750	0.0186	0.0000
8	7.0500	0.0217	0.0000
9	8.2250	0.0244	0.0000
10	9.4000	0.0268	0.0000
11	10.5750	0.0286	0.0000
12	11.7500	0.0300	0.0000
13	12.9250	0.0308	0.0000
14	14.1000	0.0309	0.0000
15	15.2750	0.0303	0.0000
16	16.4500	0.0290	0.0000
17	17.6250	0.0269	0.0000
18	18.8000	0.0239	0.0000
19	19.9750	0.0200	0.0000
20	21.1500	0.0150	-0.0001
21	22.3250	0.0085	-0.0001
22	22.5000	0.0074	-0.0001
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0056	0.0001
25	24.9500	0.0077	0.0000
26	26.4000	0.0134	0.0000
27	27.8500	0.0179	0.0000
28	29.3000	0.0214	0.0000
29	30.7500	0.0239	0.0000
30	32.2000	0.0256	0.0000
31	33.6500	0.0265	0.0000
32	35.1000	0.0284	0.0000
33	36.5500	0.0311	0.0000
34	38.0000	0.0333	0.0000
35	39.4500	0.0348	0.0000
36	40.9000	0.0355	0.0000
37	42.3500	0.0354	0.0000
38	43.8000	0.0343	0.0000
39	45.2500	0.0322	0.0000
40	46.7000	0.0289	0.0000
41	48.1500	0.0244	0.0000
42	49.6000	0.0185	-0.0001
43	51.0500	0.0108	-0.0001
44	51.5000	0.0078	-0.0001
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0077	0.0001
47	53.9500	0.0106	0.0001
48	55.4000	0.0183	0.0001
49	56.8500	0.0241	0.0000
50	58.3000	0.0286	0.0000
51	59.7500	0.0319	0.0000

Programa DINTEL IDEAM S.A.
TREN30.EnvTrenGen.UY+

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.UY+

Envolvente de tren de cargas plano genérico. UY

[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.0341	0.0000
53	62.6500	0.0352	0.0000
54	64.1000	0.0354	0.0000
55	65.5500	0.0386	0.0000
56	67.0000	0.0413	0.0000
57	68.4500	0.0432	0.0000
58	69.9000	0.0441	0.0000
59	71.3500	0.0440	0.0000
60	72.8000	0.0428	0.0000
61	74.2500	0.0402	0.0000
62	75.7000	0.0363	0.0000
63	77.1500	0.0309	0.0000
64	78.6000	0.0236	-0.0001
65	80.0500	0.0138	-0.0001
66	80.5000	0.0100	-0.0001
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	0.0082	0.0001
69	83.0750	0.0120	0.0001
70	84.6500	0.0207	0.0001
71	86.2250	0.0273	0.0000
72	87.8000	0.0324	0.0000
73	89.3750	0.0361	0.0000
74	90.9500	0.0386	0.0000
75	92.5250	0.0398	0.0000
76	94.1000	0.0400	0.0000
77	95.6750	0.0424	0.0000
78	97.2500	0.0453	0.0000
79	98.8250	0.0474	0.0000
80	100.4000	0.0484	0.0000
81	101.9750	0.0483	0.0000
82	103.5500	0.0469	0.0000
83	105.1250	0.0441	0.0000
84	106.7000	0.0398	0.0000
85	108.2750	0.0338	0.0000
86	109.8500	0.0259	-0.0001
87	111.4250	0.0151	-0.0001
88	112.0000	0.0103	-0.0001
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0104	0.0001
91	114.5750	0.0153	0.0001
92	116.1500	0.0261	0.0001
93	117.7250	0.0340	0.0000
94	119.3000	0.0400	0.0000
95	120.8750	0.0443	0.0000
96	122.4500	0.0471	0.0000
97	124.0250	0.0484	0.0000
98	125.6000	0.0485	0.0000
99	127.1750	0.0474	0.0000
100	128.7500	0.0453	0.0000
101	130.3250	0.0423	0.0000
102	131.9000	0.0386	0.0000

Programa DINTEL IDEAM S.A.
TREN30.EnvTrenGen.UY+

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.UY+

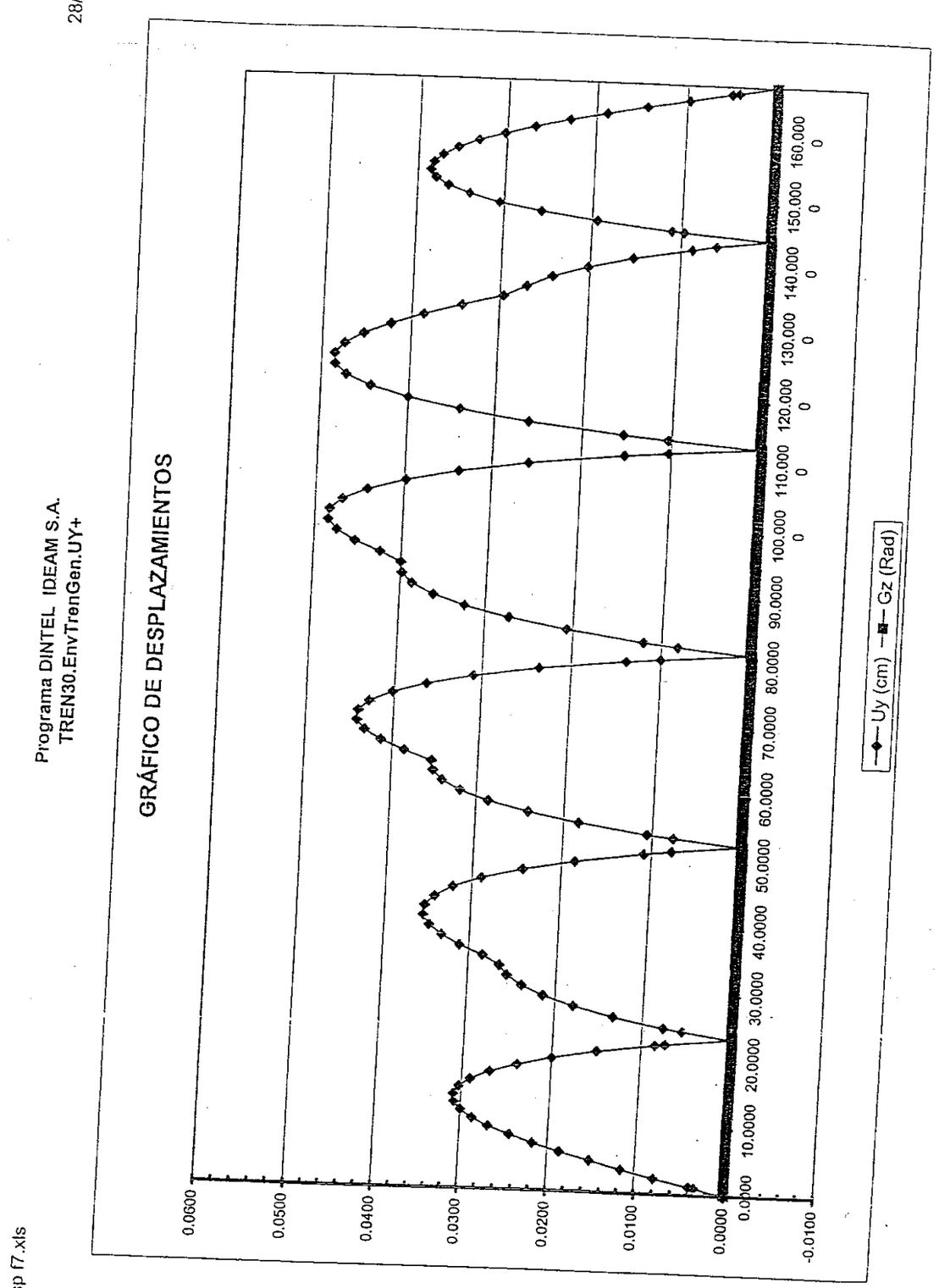
Envolvente de tren de cargas plano genérico. UY

[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.0343	0.0000
104	135.0500	0.0296	0.0000
105	136.6250	0.0270	0.0000
106	138.2000	0.0241	0.0000
107	139.7750	0.0202	0.0000
108	141.3500	0.0151	0.0000
109	142.9250	0.0087	-0.0001
110	143.5000	0.0059	-0.0001
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0097	0.0001
113	145.6750	0.0111	0.0001
114	146.8500	0.0194	0.0001
115	148.0250	0.0257	0.0001
116	149.2000	0.0305	0.0000
117	150.3750	0.0340	0.0000
118	151.5500	0.0365	0.0000
119	152.7250	0.0379	0.0000
120	153.9000	0.0385	0.0000
121	155.0750	0.0382	0.0000
122	156.2500	0.0372	0.0000
123	157.4250	0.0355	0.0000
124	158.6000	0.0331	0.0000
125	159.7750	0.0302	0.0000
126	160.9500	0.0268	0.0000
127	162.1250	0.0229	0.0000
128	163.3000	0.0188	0.0000
129	164.4750	0.0143	0.0000
130	165.6500	0.0097	0.0000
131	166.8250	0.0049	0.0000
132	167.0000	0.0041	0.0000
133	168.0000	0.0000	0.0000

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.GZ+

Envolvente de tren de cargas plano genérico. GZ

[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0033	0.0000
3	1.1750	0.0039	0.0000
4	2.3500	0.0077	0.0000
5	3.5250	0.0115	0.0000
6	4.7000	0.0150	0.0000
7	5.8750	0.0183	0.0000
8	7.0500	0.0214	0.0000
9	8.2250	0.0241	0.0000
10	9.4000	0.0264	0.0000
11	10.5750	0.0282	0.0000
12	11.7500	-0.0555	0.0000
13	12.9250	-0.0538	0.0000
14	14.1000	-0.0507	0.0000
15	15.2750	-0.0464	0.0000
16	16.4500	-0.0494	0.0001
17	17.6250	-0.0348	0.0001
18	18.8000	-0.0315	0.0001
19	19.9750	-0.0258	0.0001
20	21.1500	-0.0169	0.0001
21	22.3250	-0.0072	0.0001
22	22.5000	-0.0061	0.0001
23	23.5000	0.0000	0.0001
1023	23.5000	0.0000	0.0001
24	24.5000	0.0053	0.0001
25	24.9500	0.0063	0.0000
26	26.4000	0.0104	0.0000
27	27.8500	0.0169	0.0000
28	29.3000	0.0141	0.0000
29	30.7500	0.0178	0.0000
30	32.2000	0.0215	0.0000
31	33.6500	0.0249	0.0000
32	35.1000	0.0280	0.0000
33	36.5500	0.0306	0.0000
34	38.0000	0.0328	0.0000
35	39.4500	-0.1062	0.0000
36	40.9000	-0.1019	0.0000
37	42.3500	-0.0947	0.0001
38	43.8000	-0.0851	0.0001
39	45.2500	-0.0732	0.0001
40	46.7000	-0.0595	0.0001
41	48.1500	-0.0447	0.0001
42	49.6000	-0.0291	0.0001
43	51.0500	-0.0137	0.0001
44	51.5000	-0.0091	0.0001
45	52.5000	0.0000	0.0001
1045	52.5000	0.0000	0.0001
46	53.5000	0.0076	0.0001
47	53.9500	0.0100	0.0001
48	55.4000	0.0181	0.0001
49	56.8500	0.0239	0.0000
50	58.3000	0.0270	0.0000
51	59.7500	0.0222	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.GZ+

Envolvente de tren de cargas plano genérico. GZ

[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.0267	0.0000
53	62.6500	0.0309	0.0000
54	64.1000	0.0346	0.0000
55	65.5500	0.0379	0.0000
56	67.0000	0.0405	0.0000
57	68.4500	-0.1099	0.0000
58	69.9000	-0.1055	0.0000
59	71.3500	-0.0982	0.0001
60	72.8000	-0.0883	0.0001
61	74.2500	-0.0761	0.0001
62	75.7000	-0.0621	0.0001
63	77.1500	-0.0467	0.0001
64	78.6000	-0.0305	0.0001
65	80.0500	-0.0144	0.0001
66	80.5000	-0.0099	0.0001
67	81.5000	0.0000	0.0001
1067	81.5000	0.0000	0.0001
68	82.5000	0.0077	0.0001
69	83.0750	0.0114	0.0001
70	84.6500	0.0198	0.0001
71	86.2250	0.0262	0.0000
72	87.8000	0.0306	0.0000
73	89.3750	0.0243	0.0000
74	90.9500	0.0292	0.0000
75	92.5250	0.0338	0.0000
76	94.1000	0.0386	0.0000
77	95.6750	0.0416	0.0000
78	97.2500	0.0444	0.0000
79	98.8250	-0.1548	0.0000
80	100.4000	-0.1487	0.0001
81	101.9750	-0.1385	0.0001
82	103.5500	-0.1247	0.0001
83	105.1250	-0.1076	0.0001
84	106.7000	-0.0879	0.0001
85	108.2750	-0.0662	0.0001
86	109.8500	-0.0434	0.0002
87	111.4250	-0.0206	0.0001
88	112.0000	-0.0126	0.0001
89	113.0000	0.0000	0.0001
1089	113.0000	0.0000	0.0001
90	114.0000	0.0104	0.0001
91	114.5750	0.0153	0.0001
92	116.1500	0.0261	0.0001
93	117.7250	0.0340	0.0000
94	119.3000	0.0400	0.0000
95	120.8750	0.0443	0.0000
96	122.4500	0.0183	0.0000
97	124.0250	0.0211	0.0000
98	125.6000	0.0239	0.0000
99	127.1750	0.0258	0.0000
100	128.7500	0.0275	0.0000
101	130.3250	-0.1522	0.0000
102	131.9000	-0.1458	0.0001

Programa DINTEL IDEAM S.A.
TREN30.EnvTrenGen.GZ+

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.GZ+

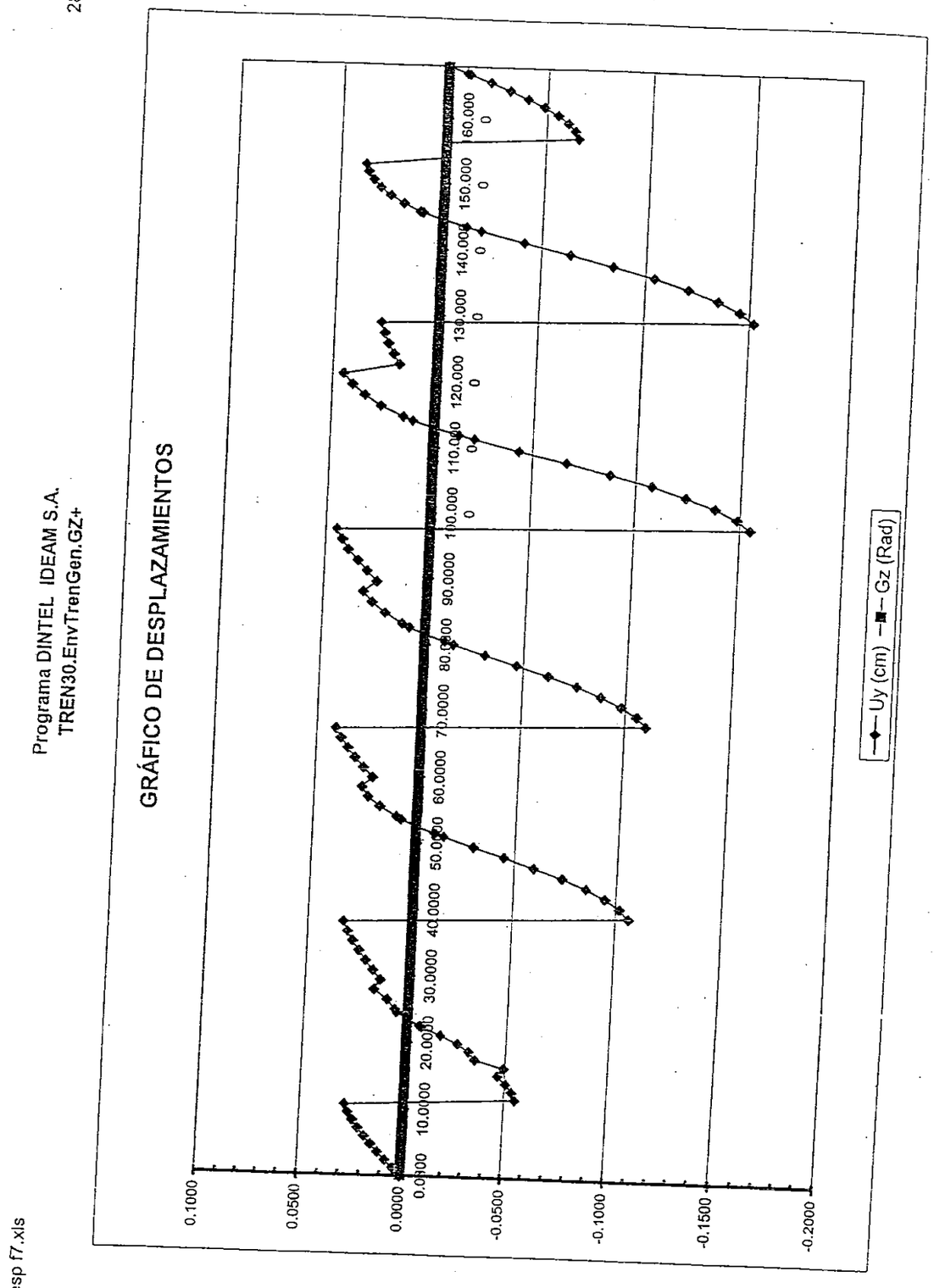
Envolvente de tren de cargas plano genérico. GZ

[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.1354	0.0001
104	135.0500	-0.1215	0.0001
105	136.6250	-0.1044	0.0001
106	138.2000	-0.0849	0.0001
107	139.7750	-0.0637	0.0001
108	141.3500	-0.0416	0.0001
109	142.9250	-0.0197	0.0001
110	143.5000	-0.0120	0.0001
111	144.5000	0.0000	0.0001
1111	144.5000	0.0000	0.0001
112	145.5000	0.0097	0.0001
113	145.6750	0.0111	0.0001
114	146.8500	0.0194	0.0001
115	148.0250	0.0257	0.0001
116	149.2000	0.0305	0.0000
117	150.3750	0.0340	0.0000
118	151.5500	0.0365	0.0000
119	152.7250	0.0379	0.0000
120	153.9000	0.0000	0.0000
121	155.0750	0.0000	0.0000
122	156.2500	0.0000	0.0000
123	157.4250	-0.0654	0.0000
124	158.6000	-0.0636	0.0000
125	159.7750	-0.0601	0.0000
126	160.9500	-0.0551	0.0001
127	162.1250	-0.0486	0.0001
128	163.3000	-0.0407	0.0001
129	164.4750	-0.0316	0.0001
130	165.6500	-0.0217	0.0001
131	166.8250	-0.0110	0.0001
132	167.0000	-0.0094	0.0001
133	168.0000	0.0000	0.0001

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.UY-
Envolvente de tren de cargas plano genérico. UY
[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	-0.0093	-0.0001
3	1.1750	-0.0109	-0.0001
4	2.3500	-0.0214	-0.0001
5	3.5250	-0.0312	-0.0001
6	4.7000	-0.0401	-0.0001
7	5.8750	-0.0479	-0.0001
8	7.0500	-0.0543	-0.0001
9	8.2250	-0.0593	0.0000
10	9.4000	-0.0627	0.0000
11	10.5750	-0.0644	0.0000
12	11.7500	-0.0645	0.0000
13	12.9250	-0.0629	0.0000
14	14.1000	-0.0598	0.0000
15	15.2750	-0.0553	0.0000
16	16.4500	-0.0494	0.0001
17	17.6250	-0.0424	0.0001
18	18.8000	-0.0345	0.0001
19	19.9750	-0.0260	0.0001
20	21.1500	-0.0171	0.0001
21	22.3250	-0.0081	0.0001
22	22.5000	-0.0068	0.0001
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0092	-0.0001
25	24.9500	-0.0138	-0.0001
26	26.4000	-0.0291	-0.0001
27	27.8500	-0.0445	-0.0001
28	29.3000	-0.0593	-0.0001
29	30.7500	-0.0729	-0.0001
30	32.2000	-0.0847	-0.0001
31	33.6500	-0.0944	-0.0001
32	35.1000	-0.1016	0.0000
33	36.5500	-0.1061	0.0000
34	38.0000	-0.1077	0.0000
35	39.4500	-0.1063	0.0000
36	40.9000	-0.1020	0.0000
37	42.3500	-0.0950	0.0001
38	43.8000	-0.0854	0.0001
39	45.2500	-0.0736	0.0001
40	46.7000	-0.0601	0.0001
41	48.1500	-0.0452	0.0001
42	49.6000	-0.0296	0.0001
43	51.0500	-0.0141	0.0001
44	51.5000	-0.0094	0.0001
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	-0.0096	-0.0001
47	53.9500	-0.0144	-0.0001
48	55.4000	-0.0303	-0.0001
49	56.8500	-0.0463	-0.0001
50	58.3000	-0.0616	-0.0001
51	59.7500	-0.0756	-0.0001

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Programa DINTEL IDEAM S.A.
TREN30.EnvTrenGen.UY-

28/09/01

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.UY-
Envolvente de tren de cargas plano genérico. UY
[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.0878	-0.0001
53	62.6500	-0.0978	-0.0001
54	64.1000	-0.1052	0.0000
55	65.5500	-0.1098	0.0000
56	67.0000	-0.1114	0.0000
57	68.4500	-0.1101	0.0000
58	69.9000	-0.1057	0.0000
59	71.3500	-0.0985	0.0001
60	72.8000	-0.0887	0.0001
61	74.2500	-0.0766	0.0001
62	75.7000	-0.0627	0.0001
63	77.1500	-0.0473	0.0001
64	78.6000	-0.0311	0.0001
65	80.0500	-0.0148	0.0001
66	80.5000	-0.0099	0.0001
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	-0.0124	-0.0001
69	83.0750	-0.0202	-0.0001
70	84.6500	-0.0427	-0.0001
71	86.2250	-0.0653	-0.0001
72	87.8000	-0.0869	-0.0001
73	89.3750	-0.1066	-0.0001
74	90.9500	-0.1238	-0.0001
75	92.5250	-0.1378	-0.0001
76	94.1000	-0.1483	-0.0001
77	95.6750	-0.1547	0.0000
78	97.2500	-0.1570	0.0000
79	98.8250	-0.1550	0.0000
80	100.4000	-0.1487	0.0001
81	101.9750	-0.1385	0.0001
82	103.5500	-0.1247	0.0001
83	105.1250	-0.1076	0.0001
84	106.7000	-0.0879	0.0001
85	108.2750	-0.0662	0.0001
86	109.8500	-0.0434	0.0002
87	111.4250	-0.0206	0.0001
88	112.0000	-0.0126	0.0001
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0125	-0.0001
91	114.5750	-0.0204	-0.0001
92	116.1500	-0.0430	-0.0001
93	117.7250	-0.0655	-0.0001
94	119.3000	-0.0869	-0.0001
95	120.8750	-0.1064	-0.0001
96	122.4500	-0.1232	-0.0001
97	124.0250	-0.1368	-0.0001
98	125.6000	-0.1468	-0.0001
99	127.1750	-0.1529	0.0000
100	128.7500	-0.1547	0.0000
101	130.3250	-0.1524	0.0000
102	131.9000	-0.1459	0.0001

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.UY-

Envolvente de tren de cargas plano genérico. UY

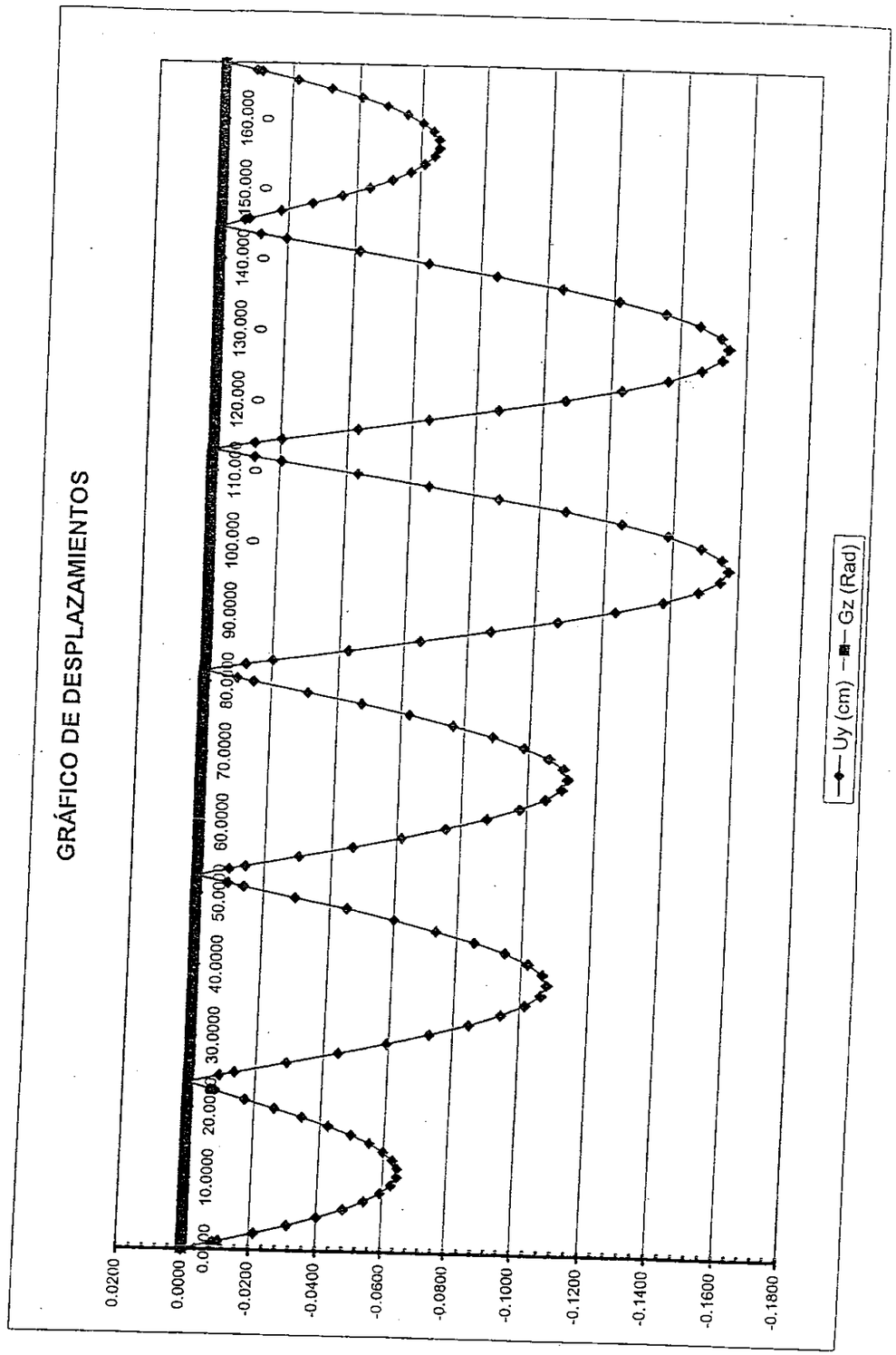
[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.1354	0.0001
104	135.0500	-0.1215	0.0001
105	136.6250	-0.1044	0.0001
106	138.2000	-0.0849	0.0001
107	139.7750	-0.0637	0.0001
108	141.3500	-0.0416	0.0001
109	142.9250	-0.0197	0.0001
110	143.5000	-0.0120	0.0001
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	-0.0072	-0.0001
113	145.6750	-0.0085	-0.0001
114	146.8500	-0.0178	-0.0001
115	148.0250	-0.0271	-0.0001
116	149.2000	-0.0358	-0.0001
117	150.3750	-0.0439	-0.0001
118	151.5500	-0.0509	-0.0001
119	152.7250	-0.0568	0.0000
120	153.9000	-0.0613	0.0000
121	155.0750	-0.0644	0.0000
122	156.2500	-0.0659	0.0000
123	157.4250	-0.0657	0.0000
124	158.6000	-0.0639	0.0000
125	159.7750	-0.0604	0.0000
126	160.9500	-0.0553	0.0001
127	162.1250	-0.0487	0.0001
128	163.3000	-0.0408	0.0001
129	164.4750	-0.0317	0.0001
130	165.6500	-0.0217	0.0001
131	166.8250	-0.0110	0.0001
132	167.0000	-0.0094	0.0001
133	168.0000	0.0000	0.0000

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Programa DINTEL IDEAM S.A.
TREN30.EnvTrenGen.UY-



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Programa DINTEL IDEAM S.A.
TREN30.EnvTrenGen.GZ-

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.GZ-

Envolvente de tren de cargas plano genérico. GZ

[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	-0.0001
2	1.0000	-0.0087	-0.0001
3	1.1750	-0.0102	-0.0001
4	2.3500	-0.0210	-0.0001
5	3.5250	-0.0293	-0.0001
6	4.7000	-0.0377	-0.0001
7	5.8750	-0.0439	-0.0001
8	7.0500	-0.0510	-0.0001
9	8.2250	-0.0593	0.0000
10	9.4000	-0.0545	0.0000
11	10.5750	-0.0582	0.0000
12	11.7500	0.0000	0.0000
13	12.9250	0.0000	0.0000
14	14.1000	0.0000	0.0000
15	15.2750	0.0299	0.0000
16	16.4500	0.0286	0.0000
17	17.6250	0.0265	0.0000
18	18.8000	0.0235	0.0000
19	19.9750	0.0197	0.0000
20	21.1500	0.0147	-0.0001
21	22.3250	0.0084	-0.0001
22	22.5000	0.0073	-0.0001
23	23.5000	0.0000	-0.0001
1023	23.5000	0.0000	-0.0001
24	24.5000	-0.0091	-0.0001
25	24.9500	-0.0136	-0.0001
26	26.4000	-0.0289	-0.0001
27	27.8500	-0.0444	-0.0001
28	29.3000	-0.0592	-0.0001
29	30.7500	-0.0728	-0.0001
30	32.2000	-0.0822	-0.0001
31	33.6500	-0.0944	-0.0001
32	35.1000	-0.1016	0.0000
33	36.5500	-0.1061	0.0000
34	38.0000	0.0193	0.0000
35	39.4500	0.0181	0.0000
36	40.9000	0.0166	0.0000
37	42.3500	0.0169	0.0000
38	43.8000	0.0137	0.0000
39	45.2500	0.0106	0.0000
40	46.7000	0.0285	0.0000
41	48.1500	0.0244	0.0000
42	49.6000	0.0183	-0.0001
43	51.0500	0.0106	-0.0001
44	51.5000	0.0077	-0.0001
45	52.5000	0.0000	-0.0001
1045	52.5000	0.0000	-0.0001
46	53.5000	-0.0095	-0.0001
47	53.9500	-0.0142	-0.0001
48	55.4000	-0.0301	-0.0001
49	56.8500	-0.0462	-0.0001
50	58.3000	-0.0615	-0.0001
51	59.7500	-0.0755	-0.0001

Programa DINTEL IDEAM S.A.
TREN30.EnvTrenGen.GZ-

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.GZ-

Envolvente de tren de cargas plano genérico. GZ

[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.0878	-0.0001
53	62.6500	-0.0978	-0.0001
54	64.1000	-0.1052	0.0000
55	65.5500	-0.1098	0.0000
56	67.0000	0.0315	0.0000
57	68.4500	0.0296	0.0000
58	69.9000	0.0271	0.0000
59	71.3500	0.0242	0.0000
60	72.8000	0.0209	0.0000
61	74.2500	0.0177	0.0000
62	75.7000	0.0138	0.0000
63	77.1500	0.0303	0.0000
64	78.6000	0.0232	-0.0001
65	80.0500	0.0135	-0.0001
66	80.5000	0.0099	-0.0001
67	81.5000	0.0000	-0.0001
1067	81.5000	0.0000	-0.0001
68	82.5000	-0.0122	-0.0001
69	83.0750	-0.0199	-0.0001
70	84.6500	-0.0423	-0.0001
71	86.2250	-0.0648	-0.0001
72	87.8000	-0.0864	-0.0001
73	89.3750	-0.1062	-0.0001
74	90.9500	-0.1234	-0.0001
75	92.5250	-0.1375	-0.0001
76	94.1000	-0.1480	-0.0001
77	95.6750	-0.1545	0.0000
78	97.2500	0.0355	0.0000
79	98.8250	0.0332	0.0000
80	100.4000	0.0304	0.0000
81	101.9750	0.0272	0.0000
82	103.5500	0.0247	0.0000
83	105.1250	0.0196	0.0000
84	106.7000	0.0155	0.0000
85	108.2750	0.0331	0.0000
86	109.8500	0.0253	-0.0001
87	111.4250	0.0148	-0.0001
88	112.0000	0.0100	-0.0001
89	113.0000	0.0000	-0.0001
1089	113.0000	0.0000	-0.0001
90	114.0000	-0.0123	-0.0001
91	114.5750	-0.0201	-0.0001
92	116.1500	-0.0426	-0.0001
93	117.7250	-0.0650	-0.0001
94	119.3000	-0.0864	-0.0001
95	120.8750	-0.1059	-0.0001
96	122.4500	-0.1228	-0.0001
97	124.0250	-0.1365	-0.0001
98	125.6000	-0.1465	-0.0001
99	127.1750	-0.1526	0.0000
100	128.7500	0.0453	0.0000
101	130.3250	0.0423	0.0000
102	131.9000	0.0386	0.0000

Programa DINTEL IDEAM S.A.
TREN30.EnvTrenGen.GZ-

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
TREN30.EnvTrenGen.GZ-

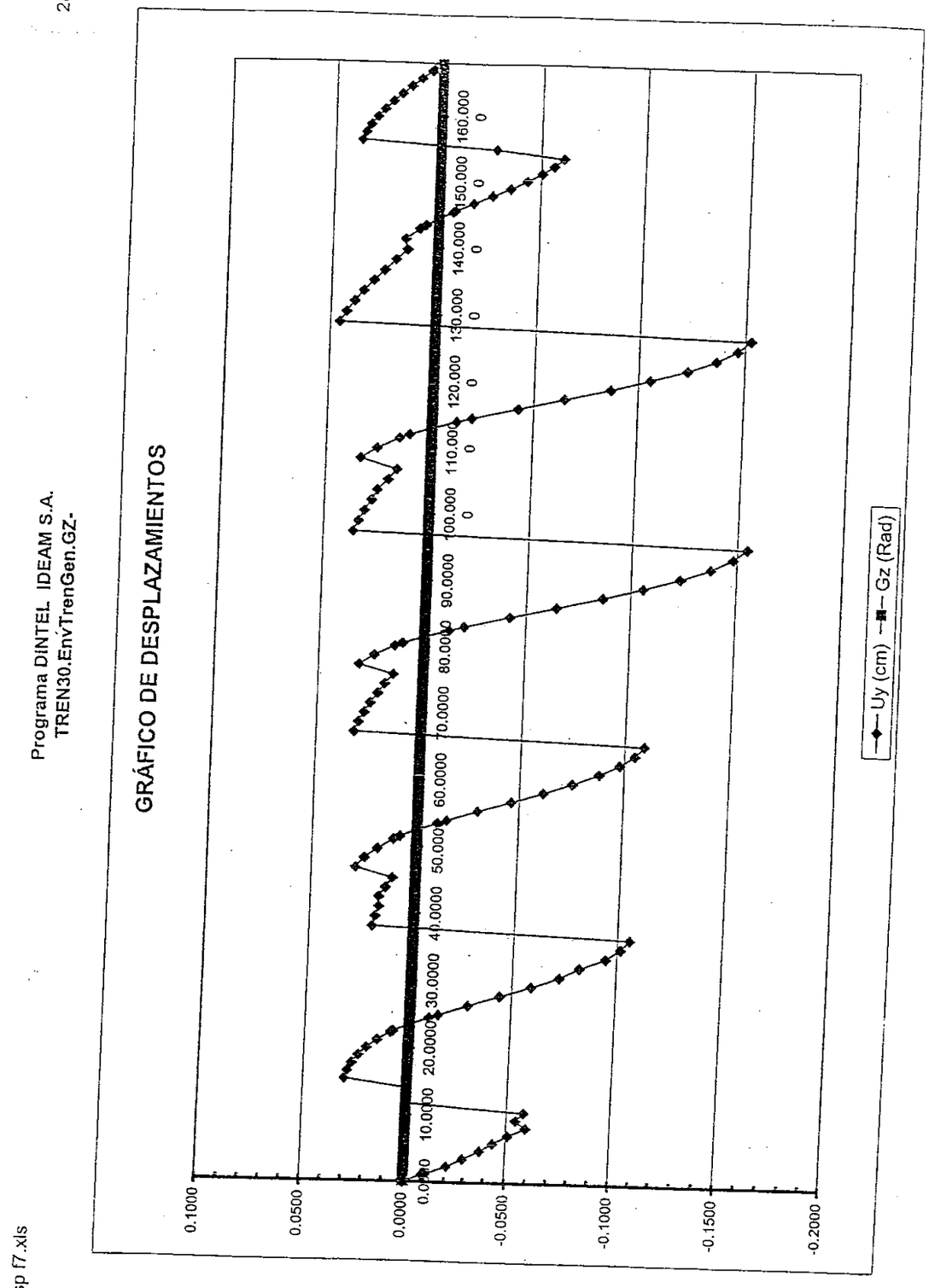
Envolvente de tren de cargas plano genérico. GZ

[0; 1]TREN30.PaseoTren.Nudo1.Pos2.Mx+ + [0; 1]TREN30.PaseoTren.Nu

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.0343	0.0000
104	135.0500	0.0296	0.0000
105	136.6250	0.0246	0.0000
106	138.2000	0.0194	0.0000
107	139.7750	0.0141	0.0000
108	141.3500	0.0151	0.0000
109	142.9250	0.0086	-0.0001
110	143.5000	0.0057	-0.0001
111	144.5000	0.0000	-0.0001
1111	144.5000	0.0000	-0.0001
112	145.5000	-0.0070	-0.0001
113	145.6750	-0.0083	-0.0001
114	146.8500	-0.0175	-0.0001
115	148.0250	-0.0267	-0.0001
116	149.2000	-0.0354	-0.0001
117	150.3750	-0.0434	-0.0001
118	151.5500	-0.0505	-0.0001
119	152.7250	-0.0564	0.0000
120	153.9000	-0.0610	0.0000
121	155.0750	-0.0283	0.0000
122	156.2500	0.0372	0.0000
123	157.4250	0.0355	0.0000
124	158.6000	0.0331	0.0000
125	159.7750	0.0302	0.0000
126	160.9500	0.0268	0.0000
127	162.1250	0.0229	0.0000
128	163.3000	0.0188	0.0000
129	164.4750	0.0143	0.0000
130	165.6500	0.0097	0.0000
131	166.8250	0.0049	0.0000
132	167.0000	0.0041	0.0000
133	168.0000	0.0000	0.0000

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.UY+

Envolvente de tren de cargas plano genérico. UY

[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.Mx

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0014	0.0000
3	1.1750	0.0015	0.0000
4	2.3500	0.0035	0.0000
5	3.5250	0.0050	0.0000
6	4.7000	0.0064	0.0000
7	5.8750	0.0079	0.0000
8	7.0500	0.0093	0.0000
9	8.2250	0.0105	0.0000
10	9.4000	0.0119	0.0000
11	10.5750	0.0130	0.0000
12	11.7500	0.0138	0.0000
13	12.9250	0.0141	0.0000
14	14.1000	0.0142	0.0000
15	15.2750	0.0140	0.0000
16	16.4500	0.0133	0.0000
17	17.6250	0.0119	0.0000
18	18.8000	0.0105	0.0000
19	19.9750	0.0088	0.0000
20	21.1500	0.0063	0.0000
21	22.3250	0.0037	0.0000
22	22.5000	0.0032	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0035	0.0000
25	24.9500	0.0042	0.0000
26	26.4000	0.0083	0.0000
27	27.8500	0.0122	0.0000
28	29.3000	0.0154	0.0000
29	30.7500	0.0178	0.0000
30	32.2000	0.0202	0.0000
31	33.6500	0.0221	0.0000
32	35.1000	0.0239	0.0000
33	36.5500	0.0251	0.0000
34	38.0000	0.0261	0.0000
35	39.4500	0.0256	0.0000
36	40.9000	0.0252	0.0000
37	42.3500	0.0241	0.0000
38	43.8000	0.0227	0.0000
39	45.2500	0.0202	0.0000
40	46.7000	0.0176	0.0000
41	48.1500	0.0137	0.0000
42	49.6000	0.0102	0.0000
43	51.0500	0.0058	0.0000
44	51.5000	0.0037	0.0000
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0045	0.0000
47	53.9500	0.0060	0.0000
48	55.4000	0.0116	0.0000
49	56.8500	0.0159	0.0000
50	58.3000	0.0198	0.0000
51	59.7500	0.0236	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.UY+

Envolvente de tren de cargas plano genérico. UY

[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.Mx

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.0266	0.0000
53	62.6500	0.0285	0.0000
54	64.1000	0.0304	0.0000
55	65.5500	0.0315	0.0000
56	67.0000	0.0320	0.0000
57	68.4500	0.0319	0.0000
58	69.9000	0.0311	0.0000
59	71.3500	0.0300	0.0000
60	72.8000	0.0278	0.0000
61	74.2500	0.0251	0.0000
62	75.7000	0.0216	0.0000
63	77.1500	0.0178	0.0000
64	78.6000	0.0130	0.0000
65	80.0500	0.0072	0.0000
66	80.5000	0.0051	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	0.0048	0.0000
69	83.0750	0.0067	0.0000
70	84.6500	0.0127	0.0000
71	86.2250	0.0178	0.0000
72	87.8000	0.0224	0.0000
73	89.3750	0.0261	0.0000
74	90.9500	0.0293	0.0000
75	92.5250	0.0317	0.0000
76	94.1000	0.0336	0.0000
77	95.6750	0.0347	0.0000
78	97.2500	0.0357	0.0000
79	98.8250	0.0354	0.0000
80	100.4000	0.0345	0.0000
81	101.9750	0.0330	0.0000
82	103.5500	0.0308	0.0000
83	105.1250	0.0275	0.0000
84	106.7000	0.0238	0.0000
85	108.2750	0.0196	0.0000
86	109.8500	0.0145	0.0000
87	111.4250	0.0078	0.0000
88	112.0000	0.0051	0.0000
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0045	0.0000
91	114.5750	0.0076	0.0000
92	116.1500	0.0138	0.0000
93	117.7250	0.0184	0.0000
94	119.3000	0.0222	0.0000
95	120.8750	0.0260	0.0000
96	122.4500	0.0287	0.0000
97	124.0250	0.0304	0.0000
98	125.6000	0.0314	0.0000
99	127.1750	0.0322	0.0000
100	128.7500	0.0320	0.0000
101	130.3250	0.0306	0.0000
102	131.9000	0.0292	0.0000

Programa DINTEL IDEAM S.A.
PASEO.ENV_TREN_GENERICO.UY+

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.UY+

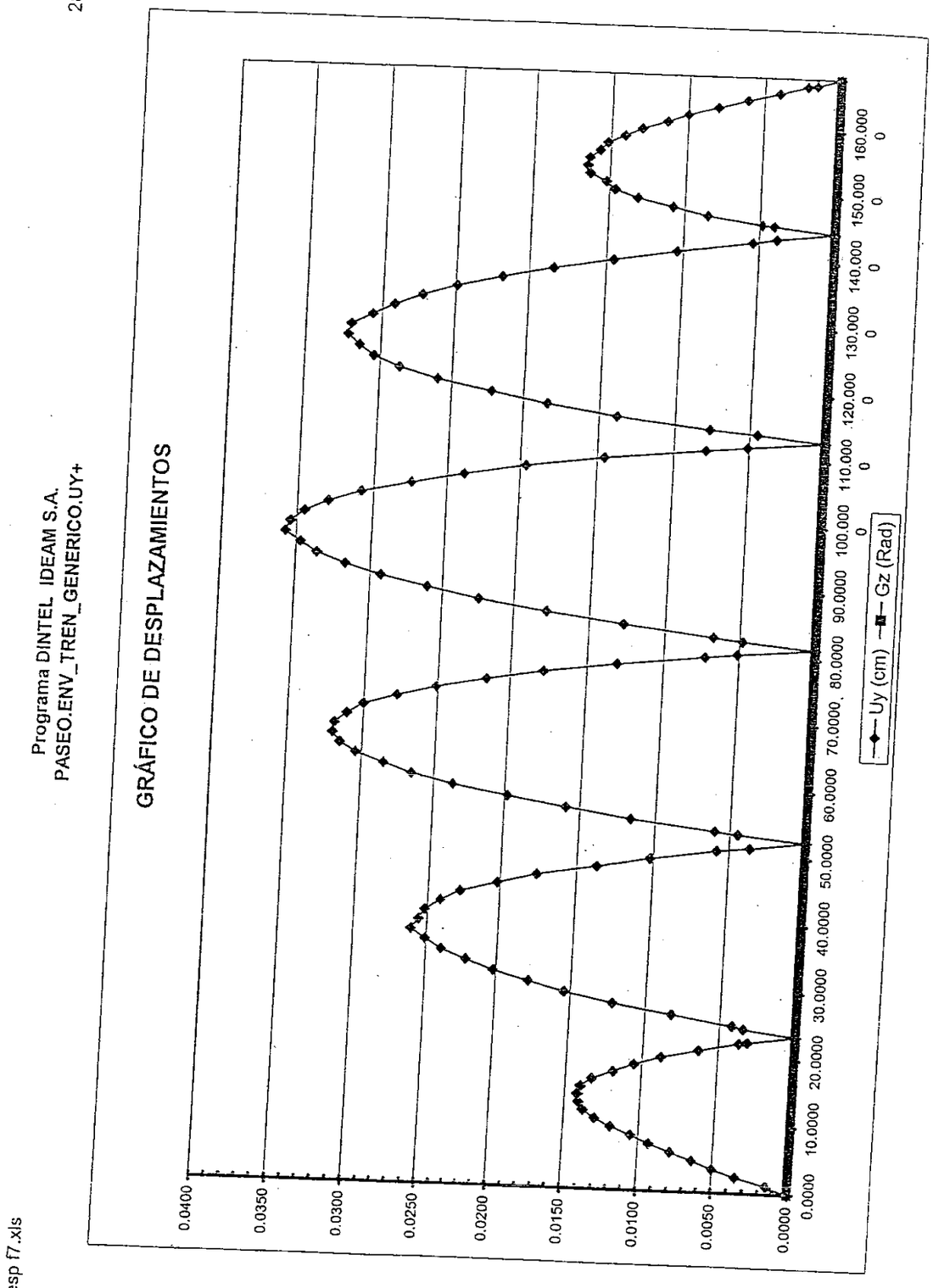
Envolvente de tren de cargas plano genérico. UY

[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.M>

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.0273	0.0000
104	135.0500	0.0249	0.0000
105	136.6250	0.0218	0.0000
106	138.2000	0.0184	0.0000
107	139.7750	0.0145	0.0000
108	141.3500	0.0104	0.0000
109	142.9250	0.0054	0.0000
110	143.5000	0.0038	0.0000
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0040	0.0000
113	145.6750	0.0048	0.0000
114	146.8500	0.0084	0.0000
115	148.0250	0.0108	0.0000
116	149.2000	0.0131	0.0000
117	150.3750	0.0146	0.0000
118	151.5500	0.0152	0.0000
119	152.7250	0.0163	0.0000
120	153.9000	0.0165	0.0000
121	155.0750	0.0164	0.0000
122	156.2500	0.0157	0.0000
123	157.4250	0.0152	0.0000
124	158.6000	0.0141	0.0000
125	159.7750	0.0130	0.0000
126	160.9500	0.0114	0.0000
127	162.1250	0.0100	0.0000
128	163.3000	0.0080	0.0000
129	164.4750	0.0061	0.0000
130	165.6500	0.0040	0.0000
131	166.8250	0.0022	0.0000
132	167.0000	0.0016	0.0000
133	168.0000	0.0000	0.0000

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.GZ+
Envolvente de tren de cargas plano genérico. GZ
[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.M>
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0000	0.0000
3	1.1750	0.0000	0.0000
4	2.3500	0.0000	0.0000
5	3.5250	0.0000	0.0000
6	4.7000	0.0000	0.0000
7	5.8750	0.0000	0.0000
8	7.0500	0.0000	0.0000
9	8.2250	0.0000	0.0000
10	9.4000	0.0000	0.0000
11	10.5750	0.0000	0.0000
12	11.7500	0.0000	0.0000
13	12.9250	0.0000	0.0000
14	14.1000	0.0000	0.0000
15	15.2750	0.0000	0.0000
16	16.4500	0.0000	0.0000
17	17.6250	0.0000	0.0000
18	18.8000	0.0000	0.0000
19	19.9750	0.0000	0.0000
20	21.1500	0.0000	0.0000
21	22.3250	0.0000	0.0000
22	22.5000	0.0000	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0000	0.0000
25	24.9500	0.0000	0.0000
26	26.4000	0.0000	0.0000
27	27.8500	0.0000	0.0000
28	29.3000	0.0000	0.0000
29	30.7500	0.0000	0.0000
30	32.2000	0.0000	0.0000
31	33.6500	0.0000	0.0000
32	35.1000	0.0000	0.0000
33	36.5500	0.0000	0.0000
34	38.0000	0.0000	0.0000
35	39.4500	0.0000	0.0000
36	40.9000	0.0000	0.0000
37	42.3500	0.0000	0.0000
38	43.8000	0.0000	0.0000
39	45.2500	0.0000	0.0000
40	46.7000	0.0000	0.0000
41	48.1500	0.0000	0.0000
42	49.6000	0.0000	0.0000
43	51.0500	0.0000	0.0000
44	51.5000	0.0000	0.0000
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0000	0.0000
47	53.9500	0.0000	0.0000
48	55.4000	0.0000	0.0000
49	56.8500	0.0000	0.0000
50	58.3000	0.0000	0.0000
51	59.7500	0.0000	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.GZ+
Envolvente de tren de cargas plano genérico. GZ
{ 0; 1}PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.M>
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.0000	0.0000
53	62.6500	0.0000	0.0000
54	64.1000	0.0000	0.0000
55	65.5500	0.0000	0.0000
56	67.0000	0.0000	0.0000
57	68.4500	0.0000	0.0000
58	69.9000	0.0000	0.0000
59	71.3500	0.0000	0.0000
60	72.8000	0.0000	0.0000
61	74.2500	0.0000	0.0000
62	75.7000	0.0000	0.0000
63	77.1500	0.0000	0.0000
64	78.6000	0.0000	0.0000
65	80.0500	0.0000	0.0000
66	80.5000	0.0000	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	0.0000	0.0000
69	83.0750	0.0000	0.0000
70	84.6500	0.0000	0.0000
71	86.2250	0.0000	0.0000
72	87.8000	0.0000	0.0000
73	89.3750	0.0000	0.0000
74	90.9500	0.0000	0.0000
75	92.5250	0.0000	0.0000
76	94.1000	0.0000	0.0000
77	95.6750	0.0000	0.0000
78	97.2500	0.0000	0.0000
79	98.8250	0.0000	0.0000
80	100.4000	0.0000	0.0000
81	101.9750	0.0000	0.0000
82	103.5500	0.0000	0.0000
83	105.1250	0.0000	0.0000
84	106.7000	0.0000	0.0000
85	108.2750	-0.0023	0.0000
86	109.8500	-0.0030	0.0000
87	111.4250	0.0000	0.0000
88	112.0000	0.0000	0.0000
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0000	0.0000
91	114.5750	0.0000	0.0000
92	116.1500	0.0000	0.0000
93	117.7250	0.0000	0.0000
94	119.3000	0.0000	0.0000
95	120.8750	0.0000	0.0000
96	122.4500	0.0000	0.0000
97	124.0250	0.0000	0.0000
98	125.6000	0.0000	0.0000
99	127.1750	0.0000	0.0000
100	128.7500	0.0000	0.0000
101	130.3250	0.0000	0.0000
102	131.9000	0.0000	0.0000

Programa DINTEL IDEAM S.A.
PASEO.ENV_TREN_GENERICO.GZ+

28/09/01

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.GZ+

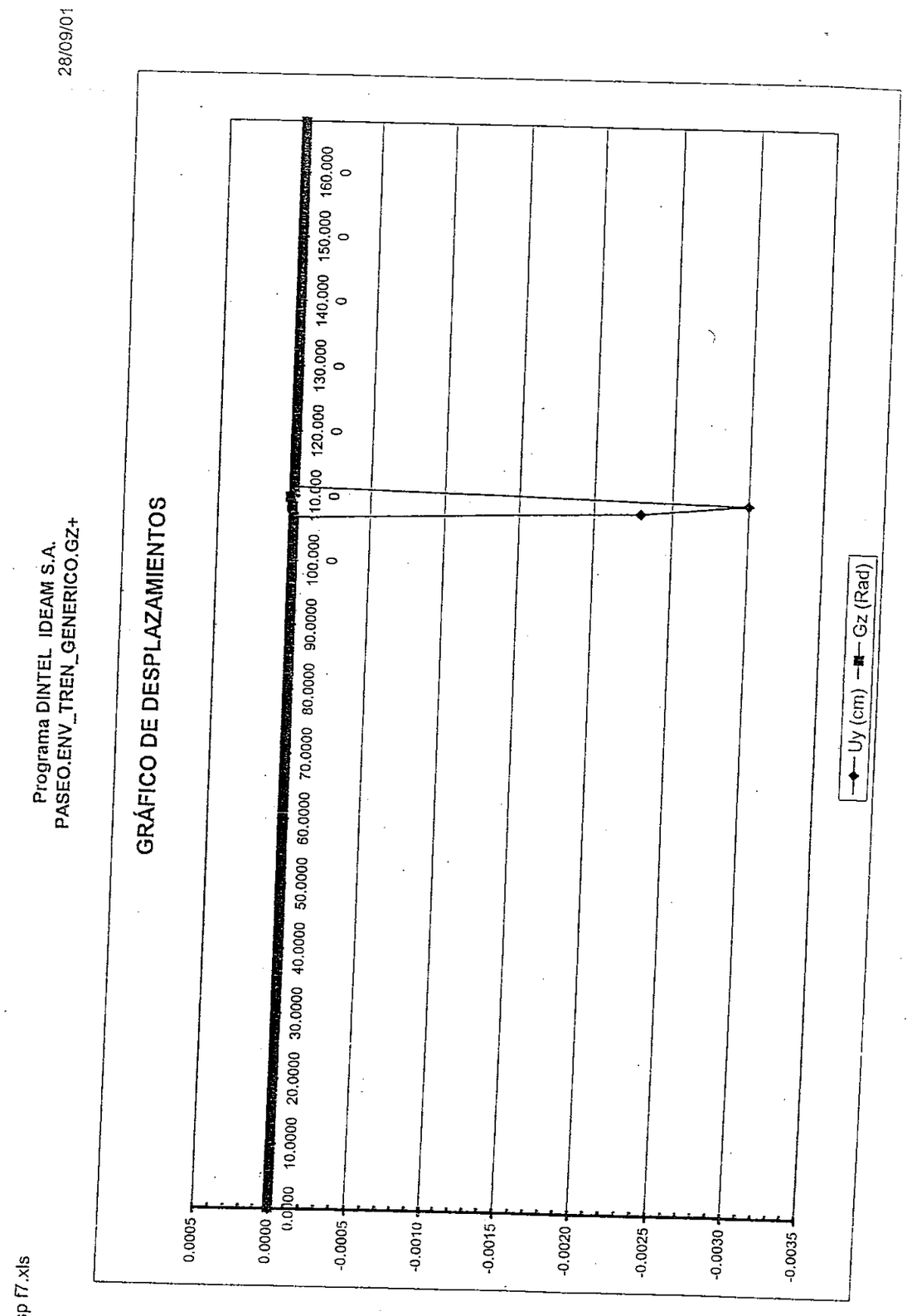
Envolvente de tren de cargas plano genérico. GZ

[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.M>

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.0000	0.0000
104	135.0500	0.0000	0.0000
105	136.6250	0.0000	0.0000
106	138.2000	0.0000	0.0000
107	139.7750	0.0000	0.0000
108	141.3500	0.0000	0.0000
109	142.9250	0.0000	0.0000
110	143.5000	0.0000	0.0000
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0000	0.0000
113	145.6750	0.0000	0.0000
114	146.8500	0.0000	0.0000
115	148.0250	0.0000	0.0000
116	149.2000	0.0000	0.0000
117	150.3750	0.0000	0.0000
118	151.5500	0.0000	0.0000
119	152.7250	0.0000	0.0000
120	153.9000	0.0000	0.0000
121	155.0750	0.0000	0.0000
122	156.2500	0.0000	0.0000
123	157.4250	0.0000	0.0000
124	158.6000	0.0000	0.0000
125	159.7750	0.0000	0.0000
126	160.9500	0.0000	0.0000
127	162.1250	0.0000	0.0000
128	163.3000	0.0000	0.0000
129	164.4750	0.0000	0.0000
130	165.6500	0.0000	0.0000
131	166.8250	0.0000	0.0000
132	167.0000	0.0000	0.0000
133	168.0000	0.0000	0.0000

28/09/01



desp f7.xls

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.UY-

Envolvente de tren de cargas plano genérico. UY

[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.M>

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	-0.0038	0.0000
3	1.1750	-0.0047	0.0000
4	2.3500	-0.0099	0.0000
5	3.5250	-0.0146	0.0000
6	4.7000	-0.0184	0.0000
7	5.8750	-0.0219	0.0000
8	7.0500	-0.0254	0.0000
9	8.2250	-0.0277	0.0000
10	9.4000	-0.0294	0.0000
11	10.5750	-0.0301	0.0000
12	11.7500	-0.0303	0.0000
13	12.9250	-0.0296	0.0000
14	14.1000	-0.0283	0.0000
15	15.2750	-0.0264	0.0000
16	16.4500	-0.0239	0.0000
17	17.6250	-0.0207	0.0000
18	18.8000	-0.0172	0.0000
19	19.9750	-0.0130	0.0000
20	21.1500	-0.0086	0.0000
21	22.3250	-0.0043	0.0000
22	22.5000	-0.0034	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0038	0.0000
25	24.9500	-0.0060	0.0000
26	26.4000	-0.0134	0.0000
27	27.8500	-0.0209	0.0000
28	29.3000	-0.0274	0.0000
29	30.7500	-0.0343	0.0000
30	32.2000	-0.0394	0.0000
31	33.6500	-0.0440	0.0000
32	35.1000	-0.0472	0.0000
33	36.5500	-0.0500	0.0000
34	38.0000	-0.0506	0.0000
35	39.4500	-0.0503	0.0000
36	40.9000	-0.0484	0.0000
37	42.3500	-0.0451	0.0000
38	43.8000	-0.0411	0.0000
39	45.2500	-0.0359	0.0000
40	46.7000	-0.0294	0.0000
41	48.1500	-0.0223	0.0000
42	49.6000	-0.0152	0.0000
43	51.0500	-0.0075	0.0000
44	51.5000	-0.0048	0.0000
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	-0.0040	0.0000
47	53.9500	-0.0070	0.0000
48	55.4000	-0.0154	0.0000
49	56.8500	-0.0229	0.0000
50	58.3000	-0.0301	0.0000
51	59.7500	-0.0374	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.UY-

Envolvente de tren de cargas plano genérico. UY

[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.M>

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.0432	0.0000
53	62.6500	-0.0479	0.0000
54	64.1000	-0.0512	0.0000
55	65.5500	-0.0538	0.0000
56	67.0000	-0.0547	0.0000
57	68.4500	-0.0541	0.0000
58	69.9000	-0.0520	0.0000
59	71.3500	-0.0485	0.0000
60	72.8000	-0.0440	0.0000
61	74.2500	-0.0385	0.0000
62	75.7000	-0.0315	0.0000
63	77.1500	-0.0239	0.0000
64	78.6000	-0.0157	0.0000
65	80.0500	-0.0076	0.0000
66	80.5000	-0.0051	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	-0.0059	0.0000
69	83.0750	-0.0099	0.0000
70	84.6500	-0.0199	0.0000
71	86.2250	-0.0311	0.0000
72	87.8000	-0.0411	0.0000
73	89.3750	-0.0504	0.0000
74	90.9500	-0.0582	0.0000
75	92.5250	-0.0643	0.0000
76	94.1000	-0.0695	0.0000
77	95.6750	-0.0725	0.0000
78	97.2500	-0.0734	0.0000
79	98.8250	-0.0727	0.0000
80	100.4000	-0.0693	0.0000
81	101.9750	-0.0648	0.0000
82	103.5500	-0.0584	0.0000
83	105.1250	-0.0506	0.0000
84	106.7000	-0.0414	0.0000
85	108.2750	-0.0312	0.0000
86	109.8500	-0.0206	0.0000
87	111.4250	-0.0097	0.0000
88	112.0000	-0.0053	0.0000
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0061	0.0000
91	114.5750	-0.0099	0.0000
92	116.1500	-0.0199	0.0000
93	117.7250	-0.0307	0.0000
94	119.3000	-0.0402	0.0000
95	120.8750	-0.0488	0.0000
96	122.4500	-0.0565	0.0000
97	124.0250	-0.0622	0.0000
98	125.6000	-0.0668	0.0000
99	127.1750	-0.0689	0.0000
100	128.7500	-0.0697	0.0000
101	130.3250	-0.0684	0.0000
102	131.9000	-0.0652	0.0000

CÁLCULO DE DESPLAZAMIENTOS

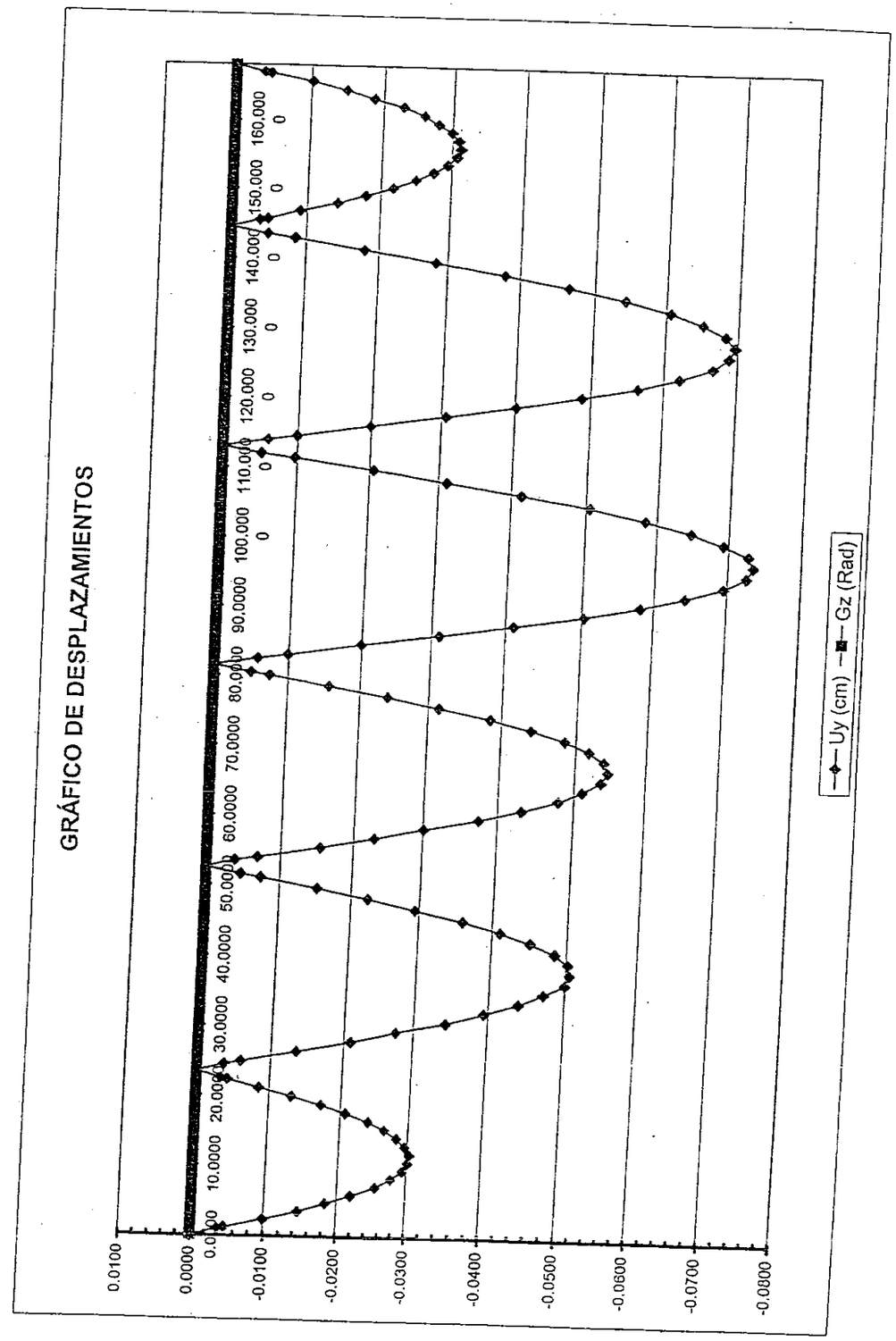
Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.UY-
Envolvente de tren de cargas plano genérico. UY
[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.Mx
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.0606	0.0000
104	135.0500	-0.0543	0.0000
105	136.6250	-0.0464	0.0000
106	138.2000	-0.0380	0.0000
107	139.7750	-0.0284	0.0000
108	141.3500	-0.0181	0.0000
109	142.9250	-0.0086	0.0000
110	143.5000	-0.0050	0.0000
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	-0.0039	0.0000
113	145.6750	-0.0049	0.0000
114	146.8500	-0.0091	0.0000
115	148.0250	-0.0142	0.0000
116	149.2000	-0.0180	0.0000
117	150.3750	-0.0217	0.0000
118	151.5500	-0.0250	0.0000
119	152.7250	-0.0276	0.0000
120	153.9000	-0.0295	0.0000
121	155.0750	-0.0307	0.0000
122	156.2500	-0.0312	0.0000
123	157.4250	-0.0309	0.0000
124	158.6000	-0.0299	0.0000
125	159.7750	-0.0281	0.0000
126	160.9500	-0.0260	0.0000
127	162.1250	-0.0228	0.0000
128	163.3000	-0.0187	0.0000
129	164.4750	-0.0149	0.0000
130	165.6500	-0.0102	0.0000
131	166.8250	-0.0047	0.0000
132	167.0000	-0.0039	0.0000
133	168.0000	0.0000	0.0000

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Programa DINTEL IDEAM S.A.
PASEO.ENV_TREN_GENERICO.UY-

GRÁFICO DE DESPLAZAMIENTOS



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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.GZ-
Envolvente de tren de cargas plano genérico. GZ
[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.M>
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	0.0000	0.0000
3	1.1750	0.0000	0.0000
4	2.3500	0.0000	0.0000
5	3.5250	0.0000	0.0000
6	4.7000	0.0000	0.0000
7	5.8750	0.0000	0.0000
8	7.0500	0.0000	0.0000
9	8.2250	0.0000	0.0000
10	9.4000	0.0000	0.0000
11	10.5750	0.0000	0.0000
12	11.7500	0.0000	0.0000
13	12.9250	0.0000	0.0000
14	14.1000	0.0000	0.0000
15	15.2750	0.0000	0.0000
16	16.4500	0.0000	0.0000
17	17.6250	0.0000	0.0000
18	18.8000	0.0000	0.0000
19	19.9750	0.0000	0.0000
20	21.1500	0.0000	0.0000
21	22.3250	0.0000	0.0000
22	22.5000	0.0000	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0000	0.0000
25	24.9500	0.0000	0.0000
26	26.4000	0.0000	0.0000
27	27.8500	0.0000	0.0000
28	29.3000	0.0000	0.0000
29	30.7500	0.0000	0.0000
30	32.2000	0.0000	0.0000
31	33.6500	0.0000	0.0000
32	35.1000	0.0000	0.0000
33	36.5500	0.0000	0.0000
34	38.0000	0.0000	0.0000
35	39.4500	0.0000	0.0000
36	40.9000	0.0000	0.0000
37	42.3500	0.0000	0.0000
38	43.8000	0.0000	0.0000
39	45.2500	0.0000	0.0000
40	46.7000	0.0000	0.0000
41	48.1500	0.0000	0.0000
42	49.6000	0.0000	0.0000
43	51.0500	0.0000	0.0000
44	51.5000	0.0000	0.0000
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0000	0.0000
47	53.9500	0.0000	0.0000
48	55.4000	0.0000	0.0000
49	56.8500	0.0000	0.0000
50	58.3000	0.0000	0.0000
51	59.7500	0.0000	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.GZ-
Envolvente de tren de cargas plano genérico. GZ
[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.M>
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.0000	0.0000
53	62.6500	0.0000	0.0000
54	64.1000	0.0000	0.0000
55	65.5500	0.0000	0.0000
56	67.0000	0.0000	0.0000
57	68.4500	0.0000	0.0000
58	69.9000	0.0000	0.0000
59	71.3500	0.0000	0.0000
60	72.8000	0.0000	0.0000
61	74.2500	0.0000	0.0000
62	75.7000	0.0000	0.0000
63	77.1500	0.0000	0.0000
64	78.6000	0.0000	0.0000
65	80.0500	0.0000	0.0000
66	80.5000	0.0000	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	0.0000	0.0000
69	83.0750	0.0000	0.0000
70	84.6500	-0.0030	0.0000
71	86.2250	-0.0022	0.0000
72	87.8000	0.0000	0.0000
73	89.3750	0.0000	0.0000
74	90.9500	0.0000	0.0000
75	92.5250	0.0000	0.0000
76	94.1000	0.0000	0.0000
77	95.6750	0.0000	0.0000
78	97.2500	0.0000	0.0000
79	98.8250	0.0000	0.0000
80	100.4000	0.0000	0.0000
81	101.9750	0.0000	0.0000
82	103.5500	0.0000	0.0000
83	105.1250	0.0000	0.0000
84	106.7000	0.0000	0.0000
85	108.2750	0.0000	0.0000
86	109.8500	0.0000	0.0000
87	111.4250	0.0000	0.0000
88	112.0000	0.0000	0.0000
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0000	0.0000
91	114.5750	0.0000	0.0000
92	116.1500	-0.0030	0.0000
93	117.7250	0.0000	0.0000
94	119.3000	0.0000	0.0000
95	120.8750	0.0000	0.0000
96	122.4500	0.0000	0.0000
97	124.0250	0.0000	0.0000
98	125.6000	0.0000	0.0000
99	127.1750	0.0000	0.0000
100	128.7500	0.0000	0.0000
101	130.3250	0.0000	0.0000
102	131.9000	0.0000	0.0000

Programa DINTEL IDEAM S.A.
PASEO.ENV_TREN_GENERICO.GZ-

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
PASEO.ENV_TREN_GENERICO.GZ-

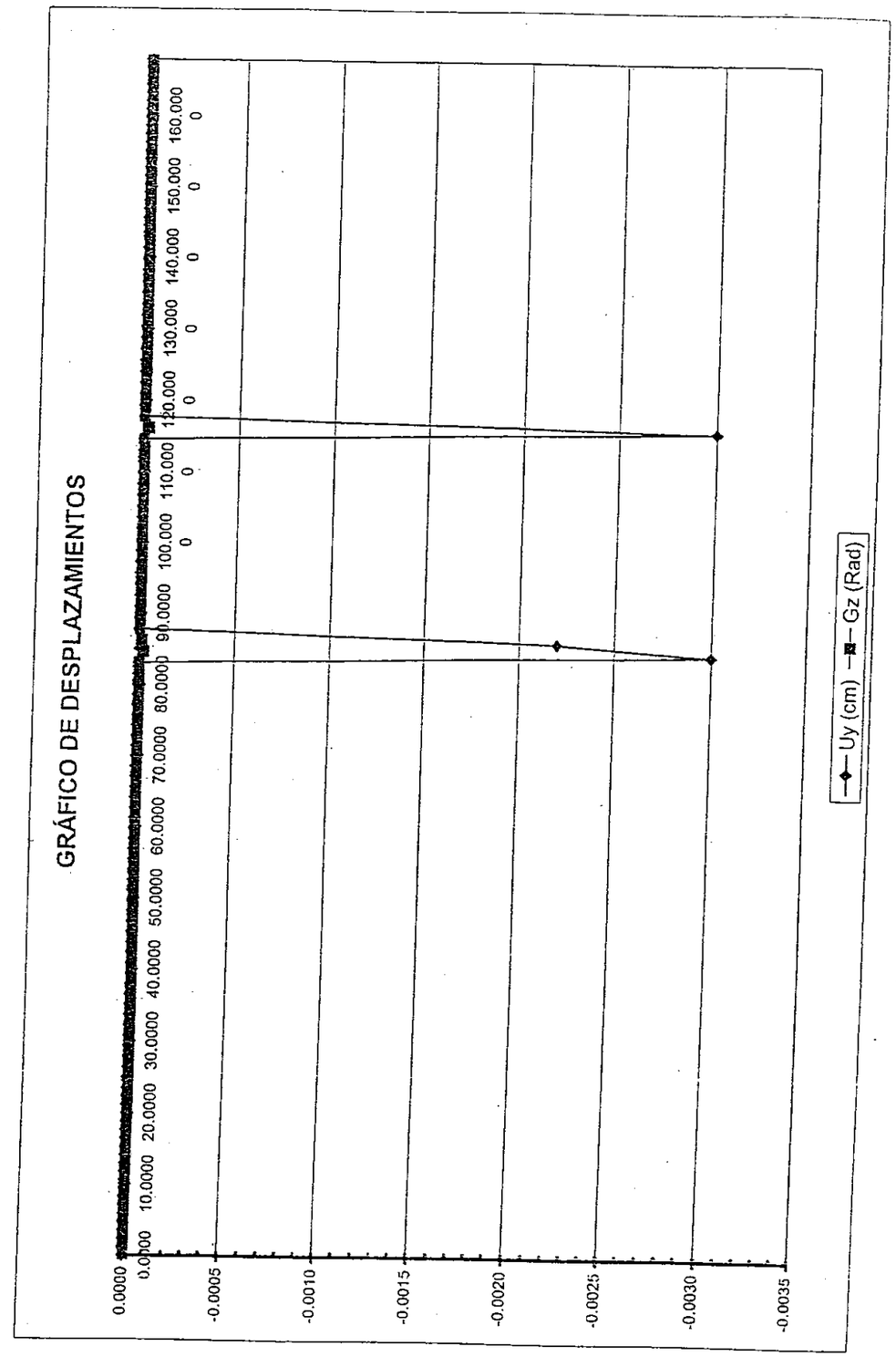
Envolvente de tren de cargas plano genérico. GZ

[0; 1]PASEO.SCuniTpos.Barra1.Mx+ + [0; 1]PASEO.SCuniTpos.Barra2.M>

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.0000	0.0000
104	135.0500	0.0000	0.0000
105	136.6250	0.0000	0.0000
106	138.2000	0.0000	0.0000
107	139.7750	0.0000	0.0000
108	141.3500	0.0000	0.0000
109	142.9250	0.0000	0.0000
110	143.5000	0.0000	0.0000
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	0.0000	0.0000
113	145.6750	0.0000	0.0000
114	146.8500	0.0000	0.0000
115	148.0250	0.0000	0.0000
116	149.2000	0.0000	0.0000
117	150.3750	0.0000	0.0000
118	151.5500	0.0000	0.0000
119	152.7250	0.0000	0.0000
120	153.9000	0.0000	0.0000
121	155.0750	0.0000	0.0000
122	156.2500	0.0000	0.0000
123	157.4250	0.0000	0.0000
124	158.6000	0.0000	0.0000
125	159.7750	0.0000	0.0000
126	160.9500	0.0000	0.0000
127	162.1250	0.0000	0.0000
128	163.3000	0.0000	0.0000
129	164.4750	0.0000	0.0000
130	165.6500	0.0000	0.0000
131	166.8250	0.0000	0.0000
132	167.0000	0.0000	0.0000
133	168.0000	0.0000	0.0000

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
CEXT

Cargas exteriores sobre EI

[1: 1]CEXT

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	-0.0003
2	1.0000	-0.0303	-0.0003
3	1.1750	-0.0355	-0.0003
4	2.3500	-0.0696	-0.0003
5	3.5250	-0.1010	-0.0003
6	4.7000	-0.1288	-0.0002
7	5.8750	-0.1521	-0.0002
8	7.0500	-0.1702	-0.0001
9	8.2250	-0.1828	-0.0001
10	9.4000	-0.1896	0.0000
11	10.5750	-0.1905	0.0000
12	11.7500	-0.1857	0.0001
13	12.9250	-0.1755	0.0001
14	14.1000	-0.1604	0.0002
15	15.2750	-0.1411	0.0002
16	16.4500	-0.1186	0.0002
17	17.6250	-0.0939	0.0002
18	18.8000	-0.0684	0.0002
19	19.9750	-0.0434	0.0002
20	21.1500	-0.0210	0.0002
21	22.3250	-0.0044	0.0001
22	22.5000	-0.0028	0.0001
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0102	-0.0002
25	24.9500	-0.0183	-0.0002
26	26.4000	-0.0516	-0.0003
27	27.8500	-0.0905	-0.0003
28	29.3000	-0.1309	-0.0003
29	30.7500	-0.1700	-0.0003
30	32.2000	-0.2053	-0.0002
31	33.6500	-0.2348	-0.0002
32	35.1000	-0.2569	-0.0001
33	36.5500	-0.2705	-0.0001
34	38.0000	-0.2750	0.0000
35	39.4500	-0.2701	0.0001
36	40.9000	-0.2560	0.0001
37	42.3500	-0.2335	0.0002
38	43.8000	-0.2036	0.0002
39	45.2500	-0.1678	0.0003
40	46.7000	-0.1284	0.0003
41	48.1500	-0.0876	0.0003
42	49.6000	-0.0485	0.0003
43	51.0500	-0.0158	0.0002
44	51.5000	-0.0083	0.0002
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	-0.0055	-0.0001
47	53.9500	-0.0118	-0.0002
48	55.4000	-0.0404	-0.0002
49	56.8500	-0.0756	-0.0003
50	58.3000	-0.1126	-0.0003
51	59.7500	-0.1485	-0.0002

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
CEXT

Cargas exteriores sobre EI

[1: 1]CEXT

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.1809	-0.0002
53	62.6500	-0.2079	-0.0002
54	64.1000	-0.2278	-0.0001
55	65.5500	-0.2397	-0.0001
56	67.0000	-0.2430	0.0000
57	68.4500	-0.2374	0.0001
58	69.9000	-0.2232	0.0001
59	71.3500	-0.2012	0.0002
60	72.8000	-0.1726	0.0002
61	74.2500	-0.1388	0.0003
62	75.7000	-0.1021	0.0003
63	77.1500	-0.0650	0.0003
64	78.6000	-0.0305	0.0002
65	80.0500	-0.0049	0.0001
66	80.5000	-0.0003	0.0001
67	81.5000	0.0000	-0.0001
1067	81.5000	0.0000	-0.0001
68	82.5000	-0.0157	-0.0002
69	83.0750	-0.0306	-0.0003
70	84.6500	-0.0826	-0.0004
71	86.2250	-0.1420	-0.0004
72	87.8000	-0.2024	-0.0004
73	89.3750	-0.2599	-0.0004
74	90.9500	-0.3111	-0.0003
75	92.5250	-0.3533	-0.0002
76	94.1000	-0.3844	-0.0002
77	95.6750	-0.4029	-0.0001
78	97.2500	-0.4080	0.0000
79	98.8250	-0.3994	0.0001
80	100.4000	-0.3776	0.0002
81	101.9750	-0.3435	0.0003
82	103.5500	-0.2988	0.0003
83	105.1250	-0.2458	0.0004
84	106.7000	-0.1873	0.0004
85	108.2750	-0.1269	0.0004
86	109.8500	-0.0689	0.0004
87	111.4250	-0.0212	0.0003
88	112.0000	-0.0090	0.0002
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0094	-0.0002
91	114.5750	-0.0219	-0.0003
92	116.1500	-0.0705	-0.0004
93	117.7250	-0.1294	-0.0004
94	119.3000	-0.1906	-0.0004
95	120.8750	-0.2499	-0.0004
96	122.4500	-0.3037	-0.0003
97	124.0250	-0.3491	-0.0003
98	125.6000	-0.3839	-0.0002
99	127.1750	-0.4062	-0.0001
100	128.7500	-0.4153	0.0000
101	130.3250	-0.4105	0.0001
102	131.9000	-0.3923	0.0002

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
CEXT

Cargas exteriores sobre El

[1; 1]CEXT

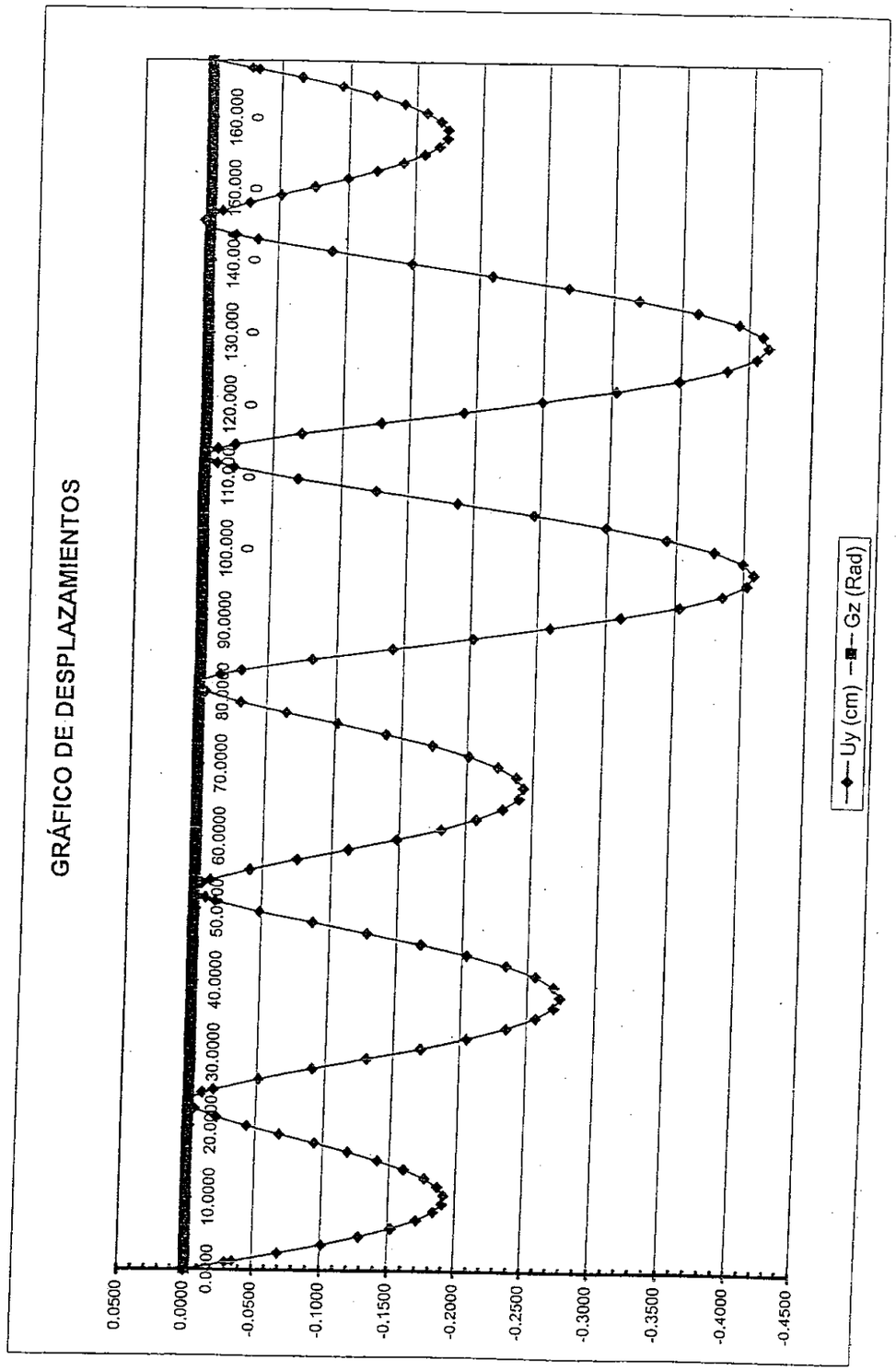
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.3613	0.0002
104	135.0500	-0.3190	0.0003
105	136.6250	-0.2676	0.0004
106	138.2000	-0.2098	0.0004
107	139.7750	-0.1489	0.0004
108	141.3500	-0.0888	0.0004
109	142.9250	-0.0348	0.0003
110	143.5000	-0.0187	0.0003
111	144.5000	0.0000	0.0001
1111	144.5000	0.0000	0.0001
112	145.5000	0.0037	0.0000
113	145.6750	0.0029	-0.0001
114	146.8500	-0.0088	-0.0001
115	148.0250	-0.0283	-0.0002
116	149.2000	-0.0514	-0.0002
117	150.3750	-0.0757	-0.0002
118	151.5500	-0.0996	-0.0002
119	152.7250	-0.1217	-0.0002
120	153.9000	-0.1410	-0.0002
121	155.0750	-0.1564	-0.0001
122	156.2500	-0.1673	-0.0001
123	157.4250	-0.1731	0.0000
124	158.6000	-0.1735	0.0000
125	159.7750	-0.1682	0.0001
126	160.9500	-0.1573	0.0001
127	162.1250	-0.1410	0.0002
128	163.3000	-0.1198	0.0002
129	164.4750	-0.0942	0.0002
130	165.6500	-0.0650	0.0003
131	166.8250	-0.0332	0.0003
132	167.0000	-0.0283	0.0003
133	168.0000	0.0000	0.0003

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Programa DINTEL IDEAM S.A.
CEXT

GRÁFICO DE DESPLAZAMIENTOS



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fase8.TOT.To

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:

fase8.TOT.To

Pretensado Total (t=0)

[1; 1]fase8.FAM1.TOT + [1; 1]fase8.FAM2.TOT + [1; 1]fase8.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0008
2	1.0000	0.0834	0.0008
3	1.1750	0.0980	0.0008
4	2.3500	0.1908	0.0007
5	3.5250	0.2709	0.0006
6	4.7000	0.3342	0.0005
7	5.8750	0.3817	0.0004
8	7.0500	0.4148	0.0002
9	8.2250	0.4345	0.0001
10	9.4000	0.4416	0.0000
11	10.5750	0.4370	-0.0001
12	11.7500	0.4227	-0.0002
13	12.9250	0.3990	-0.0002
14	14.1000	0.3673	-0.0003
15	15.2750	0.3285	-0.0004
16	16.4500	0.2834	-0.0004
17	17.6250	0.2341	-0.0004
18	18.8000	0.1809	-0.0005
19	19.9750	0.1255	-0.0005
20	21.1500	0.0687	-0.0005
21	22.3250	0.0199	-0.0004
22	22.5000	0.0139	-0.0003
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0217	0.0004
25	24.9500	0.0410	0.0005
26	26.4000	0.1183	0.0006
27	27.8500	0.2064	0.0006
28	29.3000	0.2946	0.0006
29	30.7500	0.3759	0.0005
30	32.2000	0.4435	0.0004
31	33.6500	0.4960	0.0003
32	35.1000	0.5342	0.0002
33	36.5500	0.5578	0.0001
34	38.0000	0.5662	0.0000
35	39.4500	0.5591	-0.0001
36	40.9000	0.5375	-0.0002
37	42.3500	0.5005	-0.0003
38	43.8000	0.4487	-0.0004
39	45.2500	0.3814	-0.0005
40	46.7000	0.2996	-0.0006
41	48.1500	0.2104	-0.0006
42	49.6000	0.1199	-0.0006
43	51.0500	0.0409	-0.0005
44	51.5000	0.0217	-0.0004
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0150	0.0003
47	53.9500	0.0318	0.0004
48	55.4000	0.1016	0.0006
49	56.8500	0.1829	0.0006
50	58.3000	0.2638	0.0006
51	59.7500	0.3373	0.0005

fase8.TOT.To

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:

fase8.TOT.To

Pretensado Total (t=0)

[1; 1]fase8.FAM1.TOT + [1; 1]fase8.FAM2.TOT + [1; 1]fase8.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.3972	0.0004
53	62.6500	0.4423	0.0003
54	64.1000	0.4734	0.0002
55	65.5500	0.4904	0.0001
56	67.0000	0.4935	0.0000
57	68.4500	0.4822	-0.0001
58	69.9000	0.4581	-0.0002
59	71.3500	0.4202	-0.0003
60	72.8000	0.3695	-0.0004
61	74.2500	0.3058	-0.0005
62	75.7000	0.2298	-0.0006
63	77.1500	0.1493	-0.0006
64	78.6000	0.0711	-0.0005
65	80.0500	0.0104	-0.0003
66	80.5000	-0.0008	-0.0002
67	81.5000	0.0000	0.0002
1067	81.5000	0.0000	0.0002
68	82.5000	0.0448	0.0007
69	83.0750	0.0858	0.0008
70	84.6500	0.2212	0.0009
71	86.2250	0.3697	0.0009
72	87.8000	0.5162	0.0009
73	89.3750	0.6491	0.0008
74	90.9500	0.7570	0.0006
75	92.5250	0.8397	0.0005
76	94.1000	0.8972	0.0003
77	95.6750	0.9293	0.0001
78	97.2500	0.9367	-0.0001
79	98.8250	0.9191	-0.0002
80	100.4000	0.8775	-0.0003
81	101.9750	0.8118	-0.0005
82	103.5500	0.7222	-0.0006
83	105.1250	0.6092	-0.0008
84	106.7000	0.4737	-0.0009
85	108.2750	0.3282	-0.0009
86	109.8500	0.1831	-0.0009
87	111.4250	0.0599	-0.0007
88	112.0000	0.0262	-0.0005
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0247	0.0005
91	114.5750	0.0574	0.0006
92	116.1500	0.1782	0.0009
93	117.7250	0.3214	0.0009
94	119.3000	0.4652	0.0009
95	120.8750	0.5990	0.0008
96	122.4500	0.7106	0.0006
97	124.0250	0.7985	0.0005
98	125.6000	0.8633	0.0003
99	127.1750	0.9046	0.0002
100	128.7500	0.9212	0.0000
101	130.3250	0.9140	-0.0001
102	131.9000	0.8820	-0.0003

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase8.TOT.To

Pretensado Total (t=0)

[1: 1]fase8.FAM1.TOT + [1: 1]fase8.FAM2.TOT + [1: 1]fase8.FAM3.TOT +

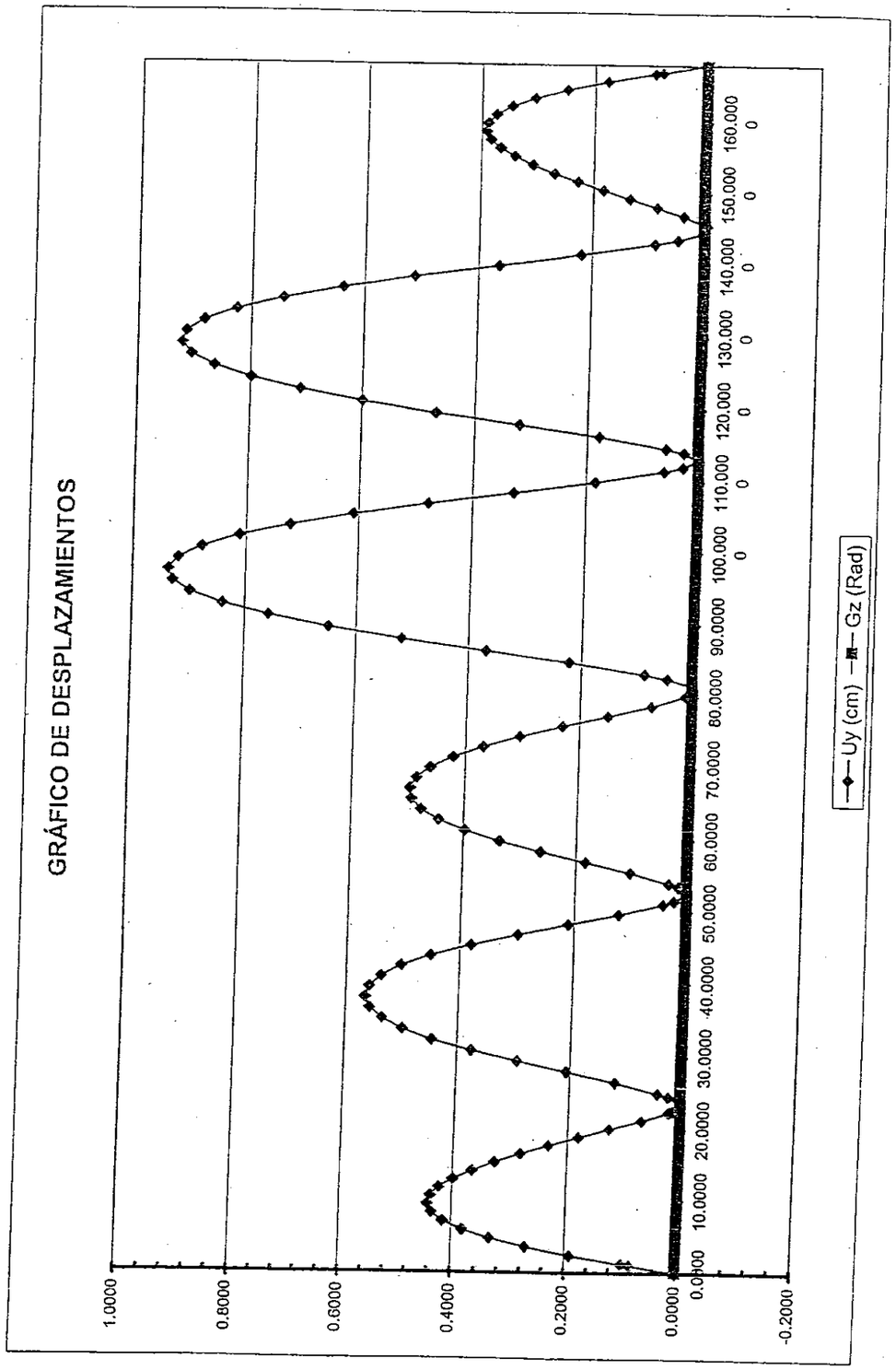
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.8253	-0.0004
104	135.0500	0.7439	-0.0006
105	136.6250	0.6376	-0.0007
106	138.2000	0.5073	-0.0009
107	139.7750	0.3641	-0.0009
108	141.3500	0.2191	-0.0009
109	142.9250	0.0864	-0.0008
110	143.5000	0.0455	-0.0007
111	144.5000	0.0000	-0.0003
1111	144.5000	0.0000	-0.0003
112	145.5000	-0.0037	0.0002
113	145.6750	-0.0003	0.0002
114	146.8500	0.0361	0.0004
115	148.0250	0.0841	0.0004
116	149.2000	0.1332	0.0004
117	150.3750	0.1815	0.0004
118	151.5500	0.2276	0.0004
119	152.7250	0.2704	0.0004
120	153.9000	0.3087	0.0003
121	155.0750	0.3410	0.0003
122	156.2500	0.3664	0.0002
123	157.4250	0.3835	0.0001
124	158.6000	0.3915	0.0000
125	159.7750	0.3887	-0.0001
126	160.9500	0.3743	-0.0002
127	162.1250	0.3471	-0.0003
128	163.3000	0.3060	-0.0004
129	164.4750	0.2491	-0.0005
130	165.6500	0.1760	-0.0007
131	166.8250	0.0909	-0.0008
132	167.0000	0.0773	-0.0008
133	168.0000	0.0000	-0.0008

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fase8.TOT.To

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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase8.TOT.Tinf

Pretensado Total (t=INF)

[1; 1]fase8.FAM1.TOT + [1; 1]fase8.FAM2.TOT + [1; 1]fase8.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0008
2	1.0000	0.0834	0.0008
3	1.1750	0.0980	0.0008
4	2.3500	0.1908	0.0007
5	3.5250	0.2709	0.0006
6	4.7000	0.3342	0.0005
7	5.8750	0.3817	0.0004
8	7.0500	0.4148	0.0002
9	8.2250	0.4345	0.0001
10	9.4000	0.4416	0.0000
11	10.5750	0.4370	-0.0001
12	11.7500	0.4227	-0.0002
13	12.9250	0.3990	-0.0002
14	14.1000	0.3673	-0.0003
15	15.2750	0.3285	-0.0004
16	16.4500	0.2834	-0.0004
17	17.6250	0.2341	-0.0004
18	18.8000	0.1809	-0.0005
19	19.9750	0.1255	-0.0005
20	21.1500	0.0687	-0.0005
21	22.3250	0.0199	-0.0004
22	22.5000	0.0139	-0.0003
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	0.0217	0.0004
25	24.9500	0.0410	0.0005
26	26.4000	0.1183	0.0006
27	27.8500	0.2064	0.0006
28	29.3000	0.2946	0.0006
29	30.7500	0.3759	0.0005
30	32.2000	0.4435	0.0004
31	33.6500	0.4960	0.0003
32	35.1000	0.5342	0.0002
33	36.5500	0.5578	0.0001
34	38.0000	0.5662	0.0000
35	39.4500	0.5591	-0.0001
36	40.9000	0.5375	-0.0002
37	42.3500	0.5005	-0.0003
38	43.8000	0.4487	-0.0004
39	45.2500	0.3814	-0.0005
40	46.7000	0.2996	-0.0006
41	48.1500	0.2104	-0.0006
42	49.6000	0.1199	-0.0006
43	51.0500	0.0409	-0.0005
44	51.5000	0.0217	-0.0004
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	0.0150	0.0003
47	53.9500	0.0318	0.0004
48	55.4000	0.1016	0.0006
49	56.8500	0.1829	0.0006
50	58.3000	0.2638	0.0006
51	59.7500	0.3373	0.0005

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase8.TOT.Tinf

Pretensado Total (t=INF)

[1; 1]fase8.FAM1.TOT + [1; 1]fase8.FAM2.TOT + [1; 1]fase8.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	0.3972	0.0004
53	62.6500	0.4423	0.0003
54	64.1000	0.4734	0.0002
55	65.5500	0.4904	0.0001
56	67.0000	0.4935	0.0000
57	68.4500	0.4822	-0.0001
58	69.9000	0.4581	-0.0002
59	71.3500	0.4202	-0.0003
60	72.8000	0.3695	-0.0004
61	74.2500	0.3058	-0.0005
62	75.7000	0.2298	-0.0006
63	77.1500	0.1493	-0.0006
64	78.6000	0.0711	-0.0005
65	80.0500	0.0104	-0.0003
66	80.5000	-0.0008	-0.0002
67	81.5000	0.0000	0.0002
1067	81.5000	0.0000	0.0002
68	82.5000	0.0448	0.0007
69	83.0750	0.0858	0.0008
70	84.6500	0.2212	0.0009
71	86.2250	0.3697	0.0009
72	87.8000	0.5162	0.0009
73	89.3750	0.6491	0.0008
74	90.9500	0.7570	0.0006
75	92.5250	0.8397	0.0005
76	94.1000	0.8972	0.0003
77	95.6750	0.9293	0.0001
78	97.2500	0.9367	-0.0001
79	98.8250	0.9191	-0.0002
80	100.4000	0.8775	-0.0003
81	101.9750	0.8118	-0.0005
82	103.5500	0.7222	-0.0006
83	105.1250	0.6092	-0.0008
84	106.7000	0.4737	-0.0009
85	108.2750	0.3282	-0.0009
86	109.8500	0.1831	-0.0009
87	111.4250	0.0599	-0.0007
88	112.0000	0.0262	-0.0005
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	0.0247	0.0005
91	114.5750	0.0574	0.0006
92	116.1500	0.1782	0.0009
93	117.7250	0.3214	0.0009
94	119.3000	0.4652	0.0009
95	120.8750	0.5990	0.0008
96	122.4500	0.7106	0.0006
97	124.0250	0.7985	0.0005
98	125.6000	0.8633	0.0003
99	127.1750	0.9046	0.0002
100	128.7500	0.9212	0.0000
101	130.3250	0.9140	-0.0001
102	131.9000	0.8820	-0.0003

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase8.TOT.Tinf

Pretensado Total (t=INF)

[1; 1]fase8.FAM1.TOT + [1; 1]fase8.FAM2.TOT + [1; 1]fase8.FAM3.TOT +

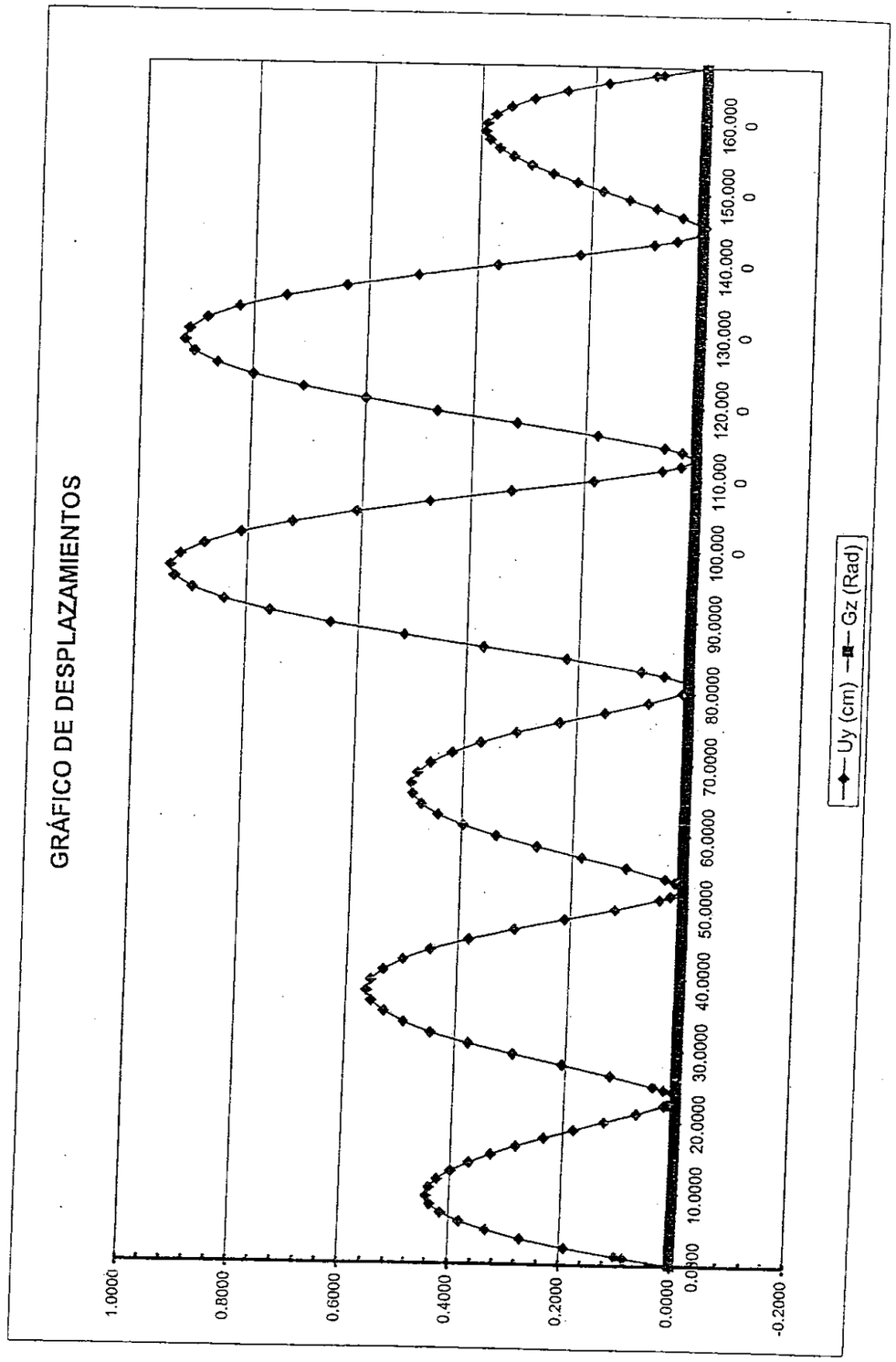
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	0.8253	-0.0004
104	135.0500	0.7439	-0.0006
105	136.6250	0.6376	-0.0007
106	138.2000	0.5073	-0.0009
107	139.7750	0.3641	-0.0009
108	141.3500	0.2191	-0.0009
109	142.9250	0.0864	-0.0008
110	143.5000	0.0455	-0.0007
111	144.5000	0.0000	-0.0003
1111	144.5000	0.0000	-0.0003
112	145.5000	-0.0037	0.0002
113	145.6750	-0.0003	0.0002
114	146.8500	0.0361	0.0004
115	148.0250	0.0841	0.0004
116	149.2000	0.1332	0.0004
117	150.3750	0.1815	0.0004
118	151.5500	0.2276	0.0004
119	152.7250	0.2704	0.0004
120	153.9000	0.3087	0.0003
121	155.0750	0.3410	0.0003
122	156.2500	0.3664	0.0002
123	157.4250	0.3835	0.0001
124	158.6000	0.3915	0.0000
125	159.7750	0.3887	-0.0001
126	160.9500	0.3743	-0.0002
127	162.1250	0.3471	-0.0003
128	163.3000	0.3060	-0.0004
129	164.4750	0.2491	-0.0005
130	165.6500	0.1760	-0.0007
131	166.8250	0.0909	-0.0008
132	167.0000	0.0773	-0.0008
133	168.0000	0.0000	-0.0008

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fase8.TOT.Tinf

GRÁFICO DE DESPLAZAMIENTOS



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CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase9.TOT.To

Pretensado Total (t=0)

[1; 1]fase9.FAM1.TOT + [1; 1]fase9.FAM2.TOT + [1; 1]fase9.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	-0.0018	0.0000
3	1.1750	-0.0020	0.0000
4	2.3500	-0.0039	0.0000
5	3.5250	-0.0059	0.0000
6	4.7000	-0.0075	0.0000
7	5.8750	-0.0091	0.0000
8	7.0500	-0.0107	0.0000
9	8.2250	-0.0122	0.0000
10	9.4000	-0.0133	0.0000
11	10.5750	-0.0140	0.0000
12	11.7500	-0.0145	0.0000
13	12.9250	-0.0150	0.0000
14	14.1000	-0.0148	0.0000
15	15.2750	-0.0145	0.0000
16	16.4500	-0.0135	0.0000
17	17.6250	-0.0124	0.0000
18	18.8000	-0.0105	0.0000
19	19.9750	-0.0082	0.0000
20	21.1500	-0.0055	0.0000
21	22.3250	-0.0019	0.0000
22	22.5000	-0.0011	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0034	-0.0001
25	24.9500	-0.0061	-0.0001
26	26.4000	-0.0133	-0.0001
27	27.8500	-0.0195	0.0000
28	29.3000	-0.0250	0.0000
29	30.7500	-0.0292	0.0000
30	32.2000	-0.0331	0.0000
31	33.6500	-0.0360	0.0000
32	35.1000	-0.0377	0.0000
33	36.5500	-0.0390	0.0000
34	38.0000	-0.0391	0.0000
35	39.4500	-0.0386	0.0000
36	40.9000	-0.0371	0.0000
37	42.3500	-0.0347	0.0000
38	43.8000	-0.0317	0.0000
39	45.2500	-0.0281	0.0000
40	46.7000	-0.0235	0.0000
41	48.1500	-0.0182	0.0000
42	49.6000	-0.0120	0.0000
43	51.0500	-0.0054	0.0000
44	51.5000	-0.0028	0.0001
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	-0.0024	-0.0001
47	53.9500	-0.0046	-0.0001
48	55.4000	-0.0109	0.0000
49	56.8500	-0.0167	0.0000
50	58.3000	-0.0212	0.0000
51	59.7500	-0.0250	0.0000

desp f9 pret.xls
Programa DINTEL IDEAM S.A.
fase9.TOT.To
28/09/01

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase9.TOT.To

Pretensado Total (t=0)

[1; 1]fase9.FAM1.TOT + [1; 1]fase9.FAM2.TOT + [1; 1]fase9.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.0286	0.0000
53	62.6500	-0.0313	0.0000
54	64.1000	-0.0331	0.0000
55	65.5500	-0.0344	0.0000
56	67.0000	-0.0345	0.0000
57	68.4500	-0.0344	0.0000
58	69.9000	-0.0333	0.0000
59	71.3500	-0.0316	0.0000
60	72.8000	-0.0292	0.0000
61	74.2500	-0.0256	0.0000
62	75.7000	-0.0219	0.0000
63	77.1500	-0.0173	0.0000
64	78.6000	-0.0116	0.0000
65	80.0500	-0.0049	0.0001
66	80.5000	-0.0027	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	-0.0031	0.0000
69	83.0750	-0.0062	0.0000
70	84.6500	-0.0134	0.0000
71	86.2250	-0.0200	0.0000
72	87.8000	-0.0254	0.0000
73	89.3750	-0.0304	0.0000
74	90.9500	-0.0341	0.0000
75	92.5250	-0.0369	0.0000
76	94.1000	-0.0387	0.0000
77	95.6750	-0.0401	0.0000
78	97.2500	-0.0406	0.0000
79	98.8250	-0.0402	0.0000
80	100.4000	-0.0387	0.0000
81	101.9750	-0.0365	0.0000
82	103.5500	-0.0337	0.0000
83	105.1250	-0.0298	0.0000
84	106.7000	-0.0248	0.0000
85	108.2750	-0.0194	0.0001
86	109.8500	-0.0131	0.0001
87	111.4250	-0.0062	0.0000
88	112.0000	-0.0028	0.0000
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0033	0.0000
91	114.5750	-0.0065	0.0000
92	116.1500	-0.0146	-0.0001
93	117.7250	-0.0216	-0.0001
94	119.3000	-0.0278	0.0000
95	120.8750	-0.0330	0.0000
96	122.4500	-0.0373	0.0000
97	124.0250	-0.0405	0.0000
98	125.6000	-0.0431	0.0000
99	127.1750	-0.0449	0.0000
100	128.7500	-0.0457	0.0000
101	130.3250	-0.0451	0.0000
102	131.9000	-0.0441	0.0000

Programa DINTEL IDEAM S.A.
fase9.TOT.To

28/09/01

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase9.TOT.To

Pretensado Total (t=0)

[1; 1]fase9.FAM1.TOT + [1; 1]fase9.FAM2.TOT + [1; 1]fase9.FAM3.TOT +

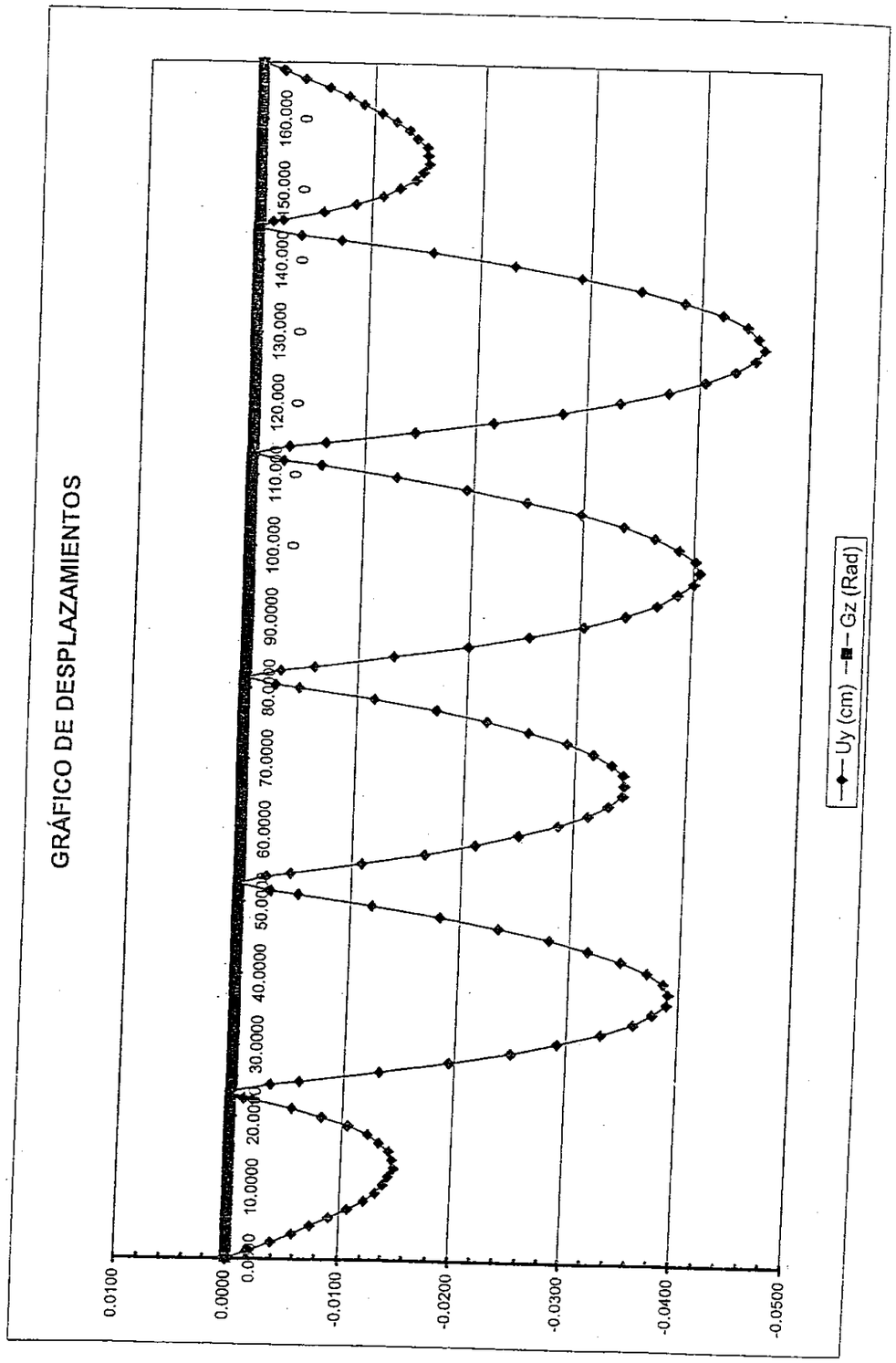
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.0419	0.0000
104	135.0500	-0.0385	0.0000
105	136.6250	-0.0346	0.0000
106	138.2000	-0.0292	0.0000
107	139.7750	-0.0231	0.0000
108	141.3500	-0.0157	0.0001
109	142.9250	-0.0073	0.0001
110	143.5000	-0.0038	0.0001
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	-0.0012	0.0000
113	145.6750	-0.0021	0.0000
114	146.8500	-0.0057	0.0000
115	148.0250	-0.0085	0.0000
116	149.2000	-0.0110	0.0000
117	150.3750	-0.0126	0.0000
118	151.5500	-0.0140	0.0000
119	152.7250	-0.0146	0.0000
120	153.9000	-0.0151	0.0000
121	155.0750	-0.0150	0.0000
122	156.2500	-0.0149	0.0000
123	157.4250	-0.0140	0.0000
124	158.6000	-0.0133	0.0000
125	159.7750	-0.0121	0.0000
126	160.9500	-0.0107	0.0000
127	162.1250	-0.0090	0.0000
128	163.3000	-0.0076	0.0000
129	164.4750	-0.0059	0.0000
130	165.6500	-0.0038	0.0000
131	166.8250	-0.0020	0.0000
132	167.0000	-0.0018	0.0000
133	168.0000	0.0000	0.0000

28/09/01

Programa DINTEL IDEAM S.A.
fase9.TOT.To

GRÁFICO DE DESPLAZAMIENTOS



desp f9 pret.xls

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase9.TOT.Tinf

Pretensado Total (t=INF)

[1; 1]fase9.FAM1.TOT + [1; 1]fase9.FAM2.TOT + [1; 1]fase9.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
1	0.0000	0.0000	0.0000
2	1.0000	-0.0018	0.0000
3	1.1750	-0.0020	0.0000
4	2.3500	-0.0039	0.0000
5	3.5250	-0.0059	0.0000
6	4.7000	-0.0075	0.0000
7	5.8750	-0.0091	0.0000
8	7.0500	-0.0107	0.0000
9	8.2250	-0.0122	0.0000
10	9.4000	-0.0133	0.0000
11	10.5750	-0.0140	0.0000
12	11.7500	-0.0145	0.0000
13	12.9250	-0.0150	0.0000
14	14.1000	-0.0148	0.0000
15	15.2750	-0.0145	0.0000
16	16.4500	-0.0135	0.0000
17	17.6250	-0.0124	0.0000
18	18.8000	-0.0105	0.0000
19	19.9750	-0.0082	0.0000
20	21.1500	-0.0055	0.0000
21	22.3250	-0.0019	0.0000
22	22.5000	-0.0011	0.0000
23	23.5000	0.0000	0.0000
1023	23.5000	0.0000	0.0000
24	24.5000	-0.0034	-0.0001
25	24.9500	-0.0061	-0.0001
26	26.4000	-0.0133	-0.0001
27	27.8500	-0.0195	0.0000
28	29.3000	-0.0250	0.0000
29	30.7500	-0.0292	0.0000
30	32.2000	-0.0331	0.0000
31	33.6500	-0.0360	0.0000
32	35.1000	-0.0377	0.0000
33	36.5500	-0.0390	0.0000
34	38.0000	-0.0391	0.0000
35	39.4500	-0.0386	0.0000
36	40.9000	-0.0371	0.0000
37	42.3500	-0.0347	0.0000
38	43.8000	-0.0317	0.0000
39	45.2500	-0.0281	0.0000
40	46.7000	-0.0235	0.0000
41	48.1500	-0.0182	0.0000
42	49.6000	-0.0120	0.0000
43	51.0500	-0.0054	0.0000
44	51.5000	-0.0028	0.0001
45	52.5000	0.0000	0.0000
1045	52.5000	0.0000	0.0000
46	53.5000	-0.0024	-0.0001
47	53.9500	-0.0046	-0.0001
48	55.4000	-0.0109	0.0000
49	56.8500	-0.0167	0.0000
50	58.3000	-0.0212	0.0000
51	59.7500	-0.0250	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase9.TOT.Tinf

Pretensado Total (t=INF)

[1; 1]fase9.FAM1.TOT + [1; 1]fase9.FAM2.TOT + [1; 1]fase9.FAM3.TOT +

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
52	61.2000	-0.0286	0.0000
53	62.6500	-0.0313	0.0000
54	64.1000	-0.0331	0.0000
55	65.5500	-0.0344	0.0000
56	67.0000	-0.0345	0.0000
57	68.4500	-0.0344	0.0000
58	69.9000	-0.0333	0.0000
59	71.3500	-0.0316	0.0000
60	72.8000	-0.0292	0.0000
61	74.2500	-0.0256	0.0000
62	75.7000	-0.0219	0.0000
63	77.1500	-0.0173	0.0000
64	78.6000	-0.0116	0.0000
65	80.0500	-0.0049	0.0001
66	80.5000	-0.0027	0.0000
67	81.5000	0.0000	0.0000
1067	81.5000	0.0000	0.0000
68	82.5000	-0.0031	0.0000
69	83.0750	-0.0062	0.0000
70	84.6500	-0.0134	0.0000
71	86.2250	-0.0200	0.0000
72	87.8000	-0.0254	0.0000
73	89.3750	-0.0304	0.0000
74	90.9500	-0.0341	0.0000
75	92.5250	-0.0369	0.0000
76	94.1000	-0.0387	0.0000
77	95.6750	-0.0401	0.0000
78	97.2500	-0.0406	0.0000
79	98.8250	-0.0402	0.0000
80	100.4000	-0.0387	0.0000
81	101.9750	-0.0365	0.0000
82	103.5500	-0.0337	0.0000
83	105.1250	-0.0298	0.0000
84	106.7000	-0.0248	0.0000
85	108.2750	-0.0194	0.0001
86	109.8500	-0.0131	0.0001
87	111.4250	-0.0062	0.0000
88	112.0000	-0.0028	0.0000
89	113.0000	0.0000	0.0000
1089	113.0000	0.0000	0.0000
90	114.0000	-0.0033	0.0000
91	114.5750	-0.0065	0.0000
92	116.1500	-0.0146	-0.0001
93	117.7250	-0.0216	-0.0001
94	119.3000	-0.0278	0.0000
95	120.8750	-0.0330	0.0000
96	122.4500	-0.0373	0.0000
97	124.0250	-0.0405	0.0000
98	125.6000	-0.0431	0.0000
99	127.1750	-0.0449	0.0000
100	128.7500	-0.0457	0.0000
101	130.3250	-0.0451	0.0000
102	131.9000	-0.0441	0.0000

CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo:
fase9.TOT.Tinf

Pretensado Total (t=INF)

[1; 1]fase9.FAM1.TOT + [1; 1]fase9.FAM2.TOT + [1; 1]fase9.FAM3.TOT +

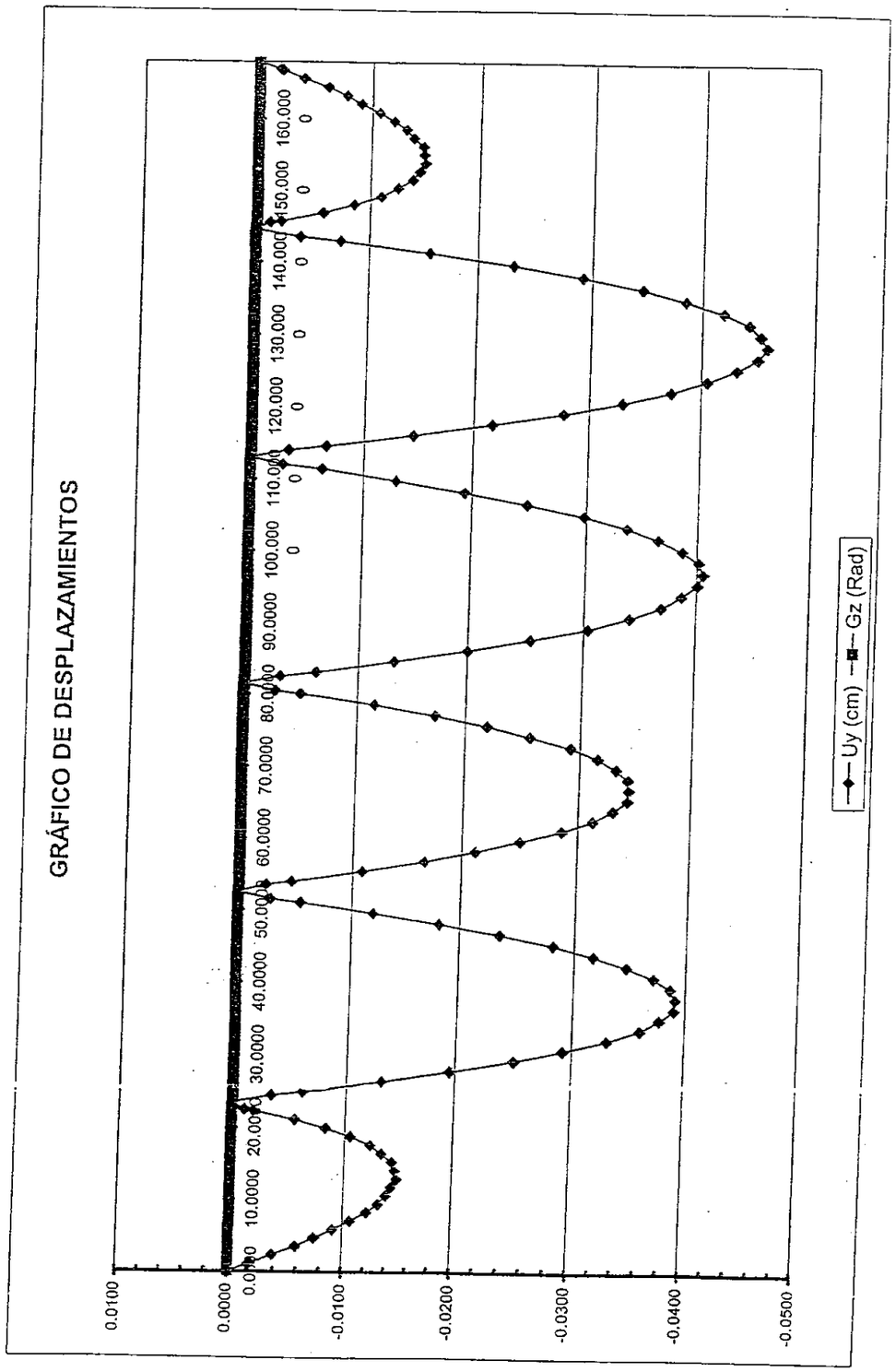
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)
103	133.4750	-0.0419	0.0000
104	135.0500	-0.0385	0.0000
105	136.6250	-0.0346	0.0000
106	138.2000	-0.0292	0.0000
107	139.7750	-0.0231	0.0000
108	141.3500	-0.0157	0.0001
109	142.9250	-0.0073	0.0001
110	143.5000	-0.0038	0.0001
111	144.5000	0.0000	0.0000
1111	144.5000	0.0000	0.0000
112	145.5000	-0.0012	0.0000
113	145.6750	-0.0021	0.0000
114	146.8500	-0.0057	0.0000
115	148.0250	-0.0085	0.0000
116	149.2000	-0.0110	0.0000
117	150.3750	-0.0126	0.0000
118	151.5500	-0.0140	0.0000
119	152.7250	-0.0146	0.0000
120	153.9000	-0.0151	0.0000
121	155.0750	-0.0150	0.0000
122	156.2500	-0.0149	0.0000
123	157.4250	-0.0140	0.0000
124	158.6000	-0.0133	0.0000
125	159.7750	-0.0121	0.0000
126	160.9500	-0.0107	0.0000
127	162.1250	-0.0090	0.0000
128	163.3000	-0.0076	0.0000
129	164.4750	-0.0059	0.0000
130	165.6500	-0.0038	0.0000
131	166.8250	-0.0020	0.0000
132	167.0000	-0.0018	0.0000
133	168.0000	0.0000	0.0000

28/09/01

Programa DINTEL IDEAM S.A.
fase9.TOT.TInf

GRÁFICO DE DESPLAZAMIENTOS



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Subanejo 13

LISTADOS DEL CÁLCULO TRANSVERSAL DE LA LOSA

SUBANEJO 13. LISTADOS DE CÁLCULO TRANSVERSAL DE LA LOSA

ÍNDICE

Subanejo 13. Listados de cálculo transversal de la losa

Subanejo 13.1. Esfuerzos locales en losa

Subanejo 13.2. Esfuerzos generales en losa

Subanejo 13.1

ESFUERZOS LOCALES EN LOSA

RESUMEN ESFUERZOS LOCALES

BARRA	NUDO	PESO PROPIO		BALASTO		IMPERMEABILIZACION		TRAVIESAS		RESTO		RESTO CARGA MUERTA	
		FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)		
1	1	0	0	0	0	0	0	0	0	0	0	0	0
1	2	-443.07	-0.18	0	0	0	0	0	0	-1805	-0.69	1805	-0.69
2	2	-443.07	-0.18	0	0	0	0	0	0	-1805	-0.69	1805	-0.69
2	3	-919.14	-0.73	0	0	0	0	0	0	-1805	-2.16	1805	-2.16
3	3	-919.14	-0.73	0	0	0	0	0	0	-1805	-2.16	1805	-2.16
3	4	-1428.22	-1.68	-174.58	-0.03	-36.56	-0.01	0	0	-2055	-3.77	2018.44	-3.78
4	4	-1428.22	-1.68	-174.58	-0.03	-36.56	-0.01	0	0	-2055	-3.77	2018.44	-3.78
4	5	-1970.31	-3.06	-922.24	-0.46	-97.5	-0.06	0	0	-2055	-5.44	1957.5	-5.5
5	5	2255.39	-3.06	1286.67	-0.46	111.6	-0.06	276.3	0	2631.99	-5.44	-2244.09	-5.5
5	6	1786.24	-1.71	621.71	-0.18	61.63	-0.01	116.3	0.13	2631.99	-3.69	-2454.06	-3.57
6	6	1786.24	-1.71	621.71	-0.18	61.63	-0.01	116.3	0.13	2631.99	-3.69	-2454.06	-3.57
6	7	1294.9	-0.68	-27.91	0.38	11.66	0.02	-43.7	0.15	2631.99	-1.94	-2664.03	-1.77
7	7	1294.9	-0.68	-27.91	0.38	11.66	0.02	-43.7	0.15	2631.99	-1.94	-2664.03	-1.77
7	8	781.37	0.01	-662.2	0.14	-38.31	0.01	-203.7	0.07	2631.99	-0.18	-2874	-0.1
8	8	781.37	0.01	-662.2	0.14	-38.31	0.01	-203.7	0.07	2631.99	-0.18	-2874	-0.1
8	9	245.64	0.35	-1281.14	0.5	-88.27	-0.03	-363.7	-0.12	2631.99	1.57	-3083.96	1.42
9	9	919.94	0.35	975.14	0.5	81.38	-0.03	0	-0.12	0.18	1.57	81.2	1.42
9	10	467.33	0.73	482.48	-0.11	40.69	0	0	-0.12	0.18	1.57	40.51	1.45
10	10	467.33	0.73	482.48	-0.11	40.69	0	0	-0.12	0.18	1.57	40.51	1.45
10	11	0	0.86	0	0.02	0	0.01	0	-0.12	0.18	1.57	-0.18	1.46
11	11	0	0.86	0	0.02	0	0.01	0	-0.12	0.18	1.57	-0.18	1.46
11	12	-467.33	0.73	-482.48	-0.11	-40.69	0	0	-0.12	0.18	1.57	-40.87	1.45
12	12	-467.33	0.73	-482.48	-0.11	-40.69	0	0	-0.12	0.18	1.57	-40.87	1.45
12	13	-919.94	0.35	-975.14	-0.5	-81.37	-0.03	0	-0.12	0.18	1.57	-81.55	1.42
13	13	-245.64	0.35	1281.14	-0.5	88.27	-0.03	363.7	-0.12	-2632.47	1.57	3084.44	1.42
13	14	-781.37	0.01	662.2	-0.14	38.31	0.01	203.7	0.07	-2632.47	-0.18	2874.48	-0.1
14	14	-781.37	0.01	662.2	-0.14	38.31	0.01	203.7	0.07	-2632.47	-0.18	2874.48	-0.1
14	15	-1294.9	-0.68	27.91	0.38	-11.66	0.02	43.7	0.15	-2632.47	-1.94	2664.51	-1.77
15	15	-1294.9	-0.68	27.91	0.38	-11.66	0.02	43.7	0.15	-2632.47	-1.94	2664.51	-1.77
15	16	-1786.24	-1.71	-621.71	0.18	-61.63	-0.01	-116.3	0.13	-2632.47	-3.69	2454.54	-3.57
16	16	-1786.24	-1.71	-621.71	0.18	-61.63	-0.01	-116.3	0.13	-2632.47	-3.69	2454.54	-3.57
16	17	-2255.39	-3.06	-1286.67	-0.46	-111.6	-0.06	-276.3	0	-2632.47	-5.45	2244.57	-5.51
17	17	1970.31	-3.06	922.24	-0.46	97.5	-0.06	0	0	2055	-5.45	-1957.5	-5.51
17	18	1428.22	-1.68	174.58	-0.03	36.56	-0.01	0	0	2055	-3.78	-2018.44	-3.79
18	18	1428.22	-1.68	174.58	-0.03	36.56	-0.01	0	0	2055	-3.78	-2018.44	-3.79
18	19	919.14	-0.73	0	0	0	0	0	0	1805	-2.16	-1805	-2.16
19	19	919.14	-0.73	0	0	0	0	0	0	1805	-2.16	-1805	-2.16
19	20	442.78	-0.18	0	0	0	0	0	0	1805	-0.69	-1805	-0.69
20	20	442.78	-0.18	0	0	0	0	0	0	1805	-0.69	-1805	-0.69
20	21	0	0	0	0	0	0	0	0	0	0	0	0

RESUMEN ESFUERZOS LOCALES

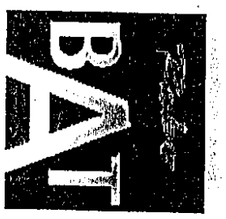
BARRA	NUDO	TREN A		TREN B		TREN C		TREN D		TREN E		TREN F	
		FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)
1	1	0	0	0	0	0	0	0	0	0	0	0	0
1	2	0	0	0	0	0	0	0	0	0	0	0	0
2	2	0	0	0	0	0	0	0	0	0	0	0	0
2	3	0	0	0	0	0	0	0	0	0	0	0	0
3	3	0	0	0	0	0	0	0	0	0	0	0	0
3	4	0	0	0	0	0	0	0	0	0	0	0	0
4	4	0	0	0	0	0	0	0	0	0	0	0	0
4	5	0	0	0	0	0	0	0	0	0	0	0	0
5	5	4827.92	0	4818.3	0	4807.92	0	3571.79	0	3561.42	0	6219.34	0
5	6	4827.92	3.22	4818.3	3.21	4807.92	3.2	3571.79	2.38	3561.42	2.37	219.34	2.44
6	6	4827.92	3.22	4818.3	3.21	4807.92	3.2	3571.79	2.38	3561.42	2.37	219.34	2.44
6	7	-1172.08	2.53	-1181.7	2.52	-1192.08	2.51	-2428.21	2.66	-2438.58	2.65	219.34	2.59
7	7	-1172.08	2.53	-1181.7	2.52	-1192.08	2.51	-2428.21	2.66	-2438.58	2.65	219.34	2.59
7	8	-1172.08	1.75	-1181.7	1.73	-1192.08	1.71	-2428.21	1.04	-2438.58	1.02	-5780.66	1.65
8	8	-1172.08	1.75	-1181.7	1.73	-1192.08	1.71	-2428.21	1.04	-2438.58	1.02	-5780.66	1.65
8	9	-7172.08	-2.31	-7181.7	-2.34	-7192.08	-2.37	-8428.21	-2.06	-8438.58	-2.09	-5780.66	-2.21
9	9	0	-2.31	73.46	-2.34	152.69	-2.37	-79.24	-2.06	0	-2.09	0	-2.21
9	10	0	-2.31	73.46	-2.3	152.69	-2.28	-79.24	-2.1	0	-2.09	0	-2.21
10	10	0	-2.31	73.46	-2.3	152.69	-2.28	-79.24	-2.1	0	-2.09	0	-2.21
10	11	0	-2.31	73.46	-2.26	152.69	-2.2	-79.24	-2.15	0	-2.09	0	-2.21
11	11	0	-2.31	73.46	-2.26	152.69	-2.2	-79.24	-2.15	0	-2.09	0	-2.21
11	12	0	-2.31	73.46	-2.22	152.69	-2.12	-79.24	-2.19	0	-2.09	0	-2.21
12	12	0	-2.31	73.46	-2.22	152.69	-2.12	-79.24	-2.19	0	-2.09	0	-2.21
12	13	0	-2.31	73.46	-2.18	152.69	-2.04	-79.24	-2.23	0	-2.09	0	-2.21
13	13	7172.08	-2.31	5771.05	-2.18	8418.59	-2.04	5791.04	-2.23	8438.58	-2.09	5780.66	-2.21
13	14	1172.08	1.75	5771.05	1.67	2418.59	1.06	5791.04	1.63	2438.58	1.02	5780.66	1.65
14	14	1172.08	1.75	5771.05	1.67	2418.59	1.06	5791.04	1.63	2438.58	1.02	5780.66	1.65
14	15	1172.08	2.53	-228.95	2.6	2418.59	2.67	-208.96	2.57	2438.58	2.65	-219.34	2.59
15	15	1172.08	2.53	-228.95	2.6	2418.59	2.67	-208.96	2.57	2438.58	2.65	-219.34	2.59
15	16	-4827.92	3.22	-228.95	2.45	-3581.41	2.39	-208.96	2.43	-3561.42	2.37	-219.34	2.44
16	16	-4827.92	3.22	-228.95	2.45	-3581.41	2.39	-208.96	2.43	-3561.42	2.37	-219.34	2.44
16	17	-4827.92	0	-6228.95	0	-3581.41	0	-6208.96	0	-3561.42	0	-6219.34	0
17	17	0	0	0	0	0	0	0	0	0	0	0	0
17	18	0	0	0	0	0	0	0	0	0	0	0	0
18	18	0	0	0	0	0	0	0	0	0	0	0	0
18	19	0	0	0	0	0	0	0	0	0	0	0	0
19	19	0	0	0	0	0	0	0	0	0	0	0	0
19	20	0	0	0	0	0	0	0	0	0	0	0	0
20	20	0	0	0	0	0	0	0	0	0	0	0	0
20	21	0	0	0	0	0	0	0	0	0	0	0	0

RESUMEN ESFUERZOS LOCALES

BARRA	NUDO	TREN G		TREN H		TREN I		PASEO	
		FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)	FZ (kG)	MY (Tm)
1	1	0	0	0	0	0	0	0	0
1	2	0	0	0	0	0	0	-256.25	-0.07
2	2	0	0	0	0	0	0	-256.25	-0.07
2	3	0	0	0	0	0	0	-662.5	-0.44
3	3	0	0	0	0	0	0	-662.5	-0.44
3	4	0	0	0	0	0	0	-750	-1.04
4	4	0	0	0	0	0	0	-750	-1.04
4	5	0	0	0	0	0	0	-750	-1.65
5	5	4622.14	0	3375.63	0	6023.18	0	797.65	-1.65
5	6	4622.14	3.08	3375.63	2.25	23.18	2.31	797.65	-1.12
6	6	4622.14	3.08	3375.63	2.25	23.18	2.31	797.65	-1.12
6	7	-1377.86	2.26	-2624.37	2.4	23.18	2.33	797.65	-0.59
7	7	-1377.86	2.26	-2624.37	2.4	23.18	2.33	797.65	-0.59
7	8	-1377.86	1.34	-2624.37	0.65	-5976.82	1.25	797.65	-0.06
8	8	-1377.86	1.34	-2624.37	0.65	-5976.82	1.25	797.65	-0.06
8	9	-7377.86	-2.86	-8624.37	-2.58	-5976.82	-2.73	797.65	0.48
9	9	1571.61	-2.86	1418.92	-2.58	1498.16	-2.73	0	0.48
9	10	1571.61	-2.01	1418.92	-1.81	1498.16	-1.92	0	0.48
10	10	1571.61	-2.01	1418.92	-1.81	1498.16	-1.92	0	0.48
10	11	1571.61	-1.16	1418.92	-1.04	1498.16	-1.1	0	0.48
11	11	1571.61	-1.16	1418.92	-1.04	1498.16	-1.1	0	0.48
11	12	1571.61	-0.3	1418.92	-0.27	1498.16	-0.29	0	0.48
12	12	1571.61	-0.3	1418.92	-0.27	1498.16	-0.29	0	0.48
12	13	1571.61	0.55	1418.92	0.5	1498.16	0.52	0	0.48
13	13	-205.78	0.55	-185.78	0.5	-196.16	0.52	-797.65	0.48
13	14	-205.78	0.41	-185.78	0.37	-196.16	0.39	-797.65	-0.06
14	14	-205.78	0.41	-185.78	0.37	-196.16	0.39	-797.65	-0.06
14	15	-205.78	0.27	-185.78	0.25	-196.16	0.26	-797.65	-0.59
15	15	-205.78	0.27	-185.78	0.25	-196.16	0.26	-797.65	-0.59
15	16	-205.78	0.14	-185.78	0.12	-196.16	0.13	-797.65	-1.12
16	16	-205.78	0.14	-185.78	0.12	-196.16	0.13	-797.65	-1.12
16	17	-205.78	0	-185.78	0	-196.16	0	-797.65	-1.65
17	17	0	0	0	0	0	0	750	-1.65
17	18	0	0	0	0	0	0	750	-1.04
18	18	0	0	0	0	0	0	750	-1.04
18	19	0	0	0	0	0	0	662.5	-0.44
19	19	0	0	0	0	0	0	662.5	-0.44
19	20	0	0	0	0	0	0	256	-0.07
20	20	0	0	0	0	0	0	256	-0.07
20	21	0	0	0	0	0	0	0	0

TITULO DEL PROYECTO

Proyecto: losa borges



Autor: PACADAR-Antonio Paez

nudos

Nudo	X (m)	Z (m)	Apoyo - código	Apoyo
1	0.0	0.0		
2	0.81	0.0		
3	1.63	0.0		
4	2.44	0.0		
5	3.25	0.0	fff	Rotula
6	3.92	0.0		
7	4.58	0.0		
8	5.25	0.0		
9	5.92	0.0	fff	Rotula
10	6.46	0.0		
11	7.00	0.0		
12	7.54	0.0		
13	8.09	0.0	fff	Rotula
14	8.75	0.0		
15	9.42	0.0		
16	10.08	0.0		
17	10.75	0.0	fff	Rotula
18	11.56	0.0		
19	12.38	0.0		
20	13.19	0.0		
21	14.00	0.0		

ROBOT v 13.5.0
Autor : PACADAR-Antonio Paez
Dirección :
© RoboBAT 1985-2000
Archivo : losa borges.rtd
Proyecto : losa borges

barras

Barra	Nudos	Nudo 2	Sección	Material	Longitud (m)	Gama (Deg)	Tipo
1	1	2	1	HORMIGON	0.81	0.0	Viga
2	2	3	2	HORMIGON	0.81	0.0	Viga
3	3	4	3	HORMIGON	0.81	0.0	Viga
4	4	5	4	HORMIGON	0.81	0.0	Viga
5	5	6	5	HORMIGON	0.67	0.0	Viga
6	6	7	6	HORMIGON	0.67	0.0	Viga
7	7	8	7	HORMIGON	0.67	0.0	Viga
8	8	9	8	HORMIGON	0.67	0.0	Viga
9	9	10	9	HORMIGON	0.54	0.0	Viga
10	10	11	10	HORMIGON	0.54	0.0	Viga
11	11	12	10	HORMIGON	0.54	0.0	Viga
12	12	13	9	HORMIGON	0.54	0.0	Viga
13	13	14	8	HORMIGON	0.67	0.0	Viga
14	14	15	7	HORMIGON	0.67	0.0	Viga
15	15	16	6	HORMIGON	0.67	0.0	Viga
16	16	17	5	HORMIGON	0.67	0.0	Viga
17	17	18	4	HORMIGON	0.81	0.0	Viga
18	18	19	3	HORMIGON	0.81	0.0	Viga
19	19	20	2	HORMIGON	0.81	0.0	Viga
20	20	21	1	HORMIGON	0.81	0.0	Viga

Esfuerzos: Valores

- Casos: 1A15

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
1/ 1/ 1	0.0	0.00	-0.00
1/ 1/ 2	0.0	0.00	-0.00
1/ 1/ 3	0.0	-0.00	0.00
1/ 1/ 4	0.0	0.00	-0.00
1/ 1/ 5	0.0	0.00	-0.00
1/ 1/ 6	0.0	-0.00	0.00
1/ 1/ 7	0.0	-0.00	0.00
1/ 1/ 8	0.0	0.00	-0.00
1/ 1/ 9	0.0	-0.00	0.00
1/ 1/ 10	0.0	-0.00	0.00
1/ 1/ 11	0.0	-0.00	0.00
1/ 1/ 12	0.0	-0.00	-0.00
1/ 1/ 13	0.0	-0.00	0.00
1/ 1/ 14	0.0	-0.00	0.00
1/ 1/ 15	0.0	0.00	0.00
1/ 2/ 1	0.0	-443.07	-0.18
1/ 2/ 2	0.0	0.00	0.00
1/ 2/ 3	0.0	-0.00	-0.00
1/ 2/ 4	0.0	0.00	-0.00
1/ 2/ 5	0.0	-1805.00	-0.69
1/ 2/ 6	0.0	-0.00	-0.00
1/ 2/ 7	0.0	-0.00	-0.00
1/ 2/ 8	0.0	0.00	0.00
1/ 2/ 9	0.0	-0.00	-0.00
1/ 2/ 10	0.0	-0.00	-0.00
1/ 2/ 11	0.0	-0.00	-0.00
1/ 2/ 12	0.0	-0.00	-0.00
1/ 2/ 13	0.0	-0.00	-0.00
1/ 2/ 14	0.0	-0.00	-0.00
1/ 2/ 15	0.0	-256.25	-0.07
2/ 2/ 1	0.0	-443.07	-0.18
2/ 2/ 2	0.0	0.00	-0.00
2/ 2/ 3	0.0	0.00	-0.00
2/ 2/ 4	0.0	-0.00	-0.00
2/ 2/ 5	0.0	-1805.00	-0.69
2/ 2/ 6	0.0	-0.00	-0.00
2/ 2/ 7	0.0	-0.00	0.00
2/ 2/ 8	0.0	-0.00	0.00
2/ 2/ 9	0.0	-0.00	0.00
2/ 2/ 10	0.0	-0.00	-0.00
2/ 2/ 11	0.0	-0.00	0.00
2/ 2/ 12	0.0	-0.00	0.00
2/ 2/ 13	0.0	-0.00	0.00
2/ 2/ 14	0.0	-0.00	0.00
2/ 2/ 15	0.0	-256.25	-0.07
2/ 3/ 1	0.0	-919.14	-0.73
2/ 3/ 2	0.0	0.00	0.00
2/ 3/ 3	0.0	0.00	0.00
2/ 3/ 4	0.0	-0.00	-0.00

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
2/ 3/ 5	0.0	-1805.00	-2.16
2/ 3/ 6	0.0	-0.00	-0.00
2/ 3/ 7	0.0	-0.00	-0.00
2/ 3/ 8	0.0	-0.00	-0.00
2/ 3/ 9	0.0	-0.00	-0.00
2/ 3/ 10	0.0	-0.00	-0.00
2/ 3/ 11	0.0	-0.00	-0.00
2/ 3/ 12	0.0	-0.00	-0.00
2/ 3/ 13	0.0	-0.00	-0.00
2/ 3/ 14	0.0	-0.00	-0.00
2/ 3/ 15	0.0	-662.50	-0.44
3/ 3/ 1	0.0	-919.14	-0.73
3/ 3/ 2	0.0	0.00	0.00
3/ 3/ 3	0.0	0.00	0.00
3/ 3/ 4	0.0	-0.00	-0.00
3/ 3/ 5	0.0	-1805.00	-2.16
3/ 3/ 6	0.0	-0.00	-0.00
3/ 3/ 7	0.0	-0.00	-0.00
3/ 3/ 8	0.0	-0.00	-0.00
3/ 3/ 9	0.0	-0.00	-0.00
3/ 3/ 10	0.0	-0.00	-0.00
3/ 3/ 11	0.0	-0.00	-0.00
3/ 3/ 12	0.0	-0.00	-0.00
3/ 3/ 13	0.0	-0.00	-0.00
3/ 3/ 14	0.0	-0.00	-0.00
3/ 3/ 15	0.0	-662.50	-0.44
3/ 4/ 1	0.0	-1428.22	-1.68
3/ 4/ 2	0.0	-174.58	-0.03
3/ 4/ 3	0.0	-36.56	-0.01
3/ 4/ 4	0.0	-0.00	-0.00
3/ 4/ 5	0.0	-2055.00	-3.77
3/ 4/ 6	0.0	-0.00	-0.00
3/ 4/ 7	0.0	-0.00	-0.00
3/ 4/ 8	0.0	-0.00	-0.00
3/ 4/ 9	0.0	-0.00	-0.00
3/ 4/ 10	0.0	-0.00	-0.00
3/ 4/ 11	0.0	-0.00	-0.00
3/ 4/ 12	0.0	-0.00	-0.00
3/ 4/ 13	0.0	-0.00	-0.00
3/ 4/ 14	0.0	-0.00	-0.00
3/ 4/ 15	0.0	-750.00	-1.04
4/ 4/ 1	0.0	-1428.22	-1.68
4/ 4/ 2	0.0	-174.58	-0.03
4/ 4/ 3	0.0	-36.56	-0.01
4/ 4/ 4	0.0	-0.00	-0.00
4/ 4/ 5	0.0	-2055.00	-3.77
4/ 4/ 6	0.0	-0.00	-0.00
4/ 4/ 7	0.0	-0.00	-0.00
4/ 4/ 8	0.0	-0.00	-0.00
4/ 4/ 9	0.0	-0.00	-0.00
4/ 4/ 10	0.0	-0.00	-0.00
4/ 4/ 11	0.0	-0.00	-0.00

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
4/ 4/ 12	0.0	-0.00	-0.00
4/ 4/ 13	0.0	-0.00	-0.00
4/ 4/ 14	0.0	-0.00	-0.00
4/ 4/ 15	0.0	-750.00	-1.04
4/ 5/ 1	0.0	-1970.31	-3.06
4/ 5/ 2	0.0	-922.24	-0.46
4/ 5/ 3	0.0	-97.50	-0.06
4/ 5/ 4	0.0	-0.00	-0.00
4/ 5/ 5	0.0	-2055.00	-5.44
4/ 5/ 6	0.0	-0.00	-0.00
4/ 5/ 7	0.0	-0.00	-0.00
4/ 5/ 8	0.0	-0.00	-0.00
4/ 5/ 9	0.0	-0.00	-0.00
4/ 5/ 10	0.0	-0.00	-0.00
4/ 5/ 11	0.0	-0.00	-0.00
4/ 5/ 12	0.0	-0.00	-0.00
4/ 5/ 13	0.0	-0.00	-0.00
4/ 5/ 14	0.0	-0.00	-0.00
4/ 5/ 15	0.0	-750.00	-1.65
5/ 5/ 1	0.0	2255.39	-3.06
5/ 5/ 2	0.0	1286.67	-0.46
5/ 5/ 3	0.0	111.60	-0.06
5/ 5/ 4	0.0	276.30	-0.00
5/ 5/ 5	0.0	2631.99	-5.44
5/ 5/ 6	0.0	4827.92	-0.00
5/ 5/ 7	0.0	4818.30	-0.00
5/ 5/ 8	0.0	4807.92	-0.00
5/ 5/ 9	0.0	3571.79	-0.00
5/ 5/ 10	0.0	3561.42	-0.00
5/ 5/ 11	0.0	6219.34	-0.00
5/ 5/ 12	0.0	4622.14	-0.00
5/ 5/ 13	0.0	3375.63	-0.00
5/ 5/ 14	0.0	6023.18	-0.00
5/ 5/ 15	0.0	797.65	-1.65
5/ 6/ 1	0.0	1786.24	-1.71
5/ 6/ 2	0.0	621.71	0.18
5/ 6/ 3	0.0	61.63	-0.01
5/ 6/ 4	0.0	116.30	0.13
5/ 6/ 5	0.0	2631.99	-3.69
5/ 6/ 6	0.0	4827.92	3.22
5/ 6/ 7	0.0	4818.30	3.21
5/ 6/ 8	0.0	4807.92	3.20
5/ 6/ 9	0.0	3571.79	2.38
5/ 6/ 10	0.0	3561.42	2.37
5/ 6/ 11	0.0	219.34	2.44
5/ 6/ 12	0.0	4622.14	3.08
5/ 6/ 13	0.0	3375.63	2.25
5/ 6/ 14	0.0	23.18	2.31
5/ 6/ 15	0.0	797.65	-1.12
6/ 6/ 1	0.0	1786.24	-1.71
6/ 6/ 2	0.0	621.71	0.18
6/ 6/ 3	0.0	61.63	-0.01

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
6/ 6/ 4	0.0	116.30	0.13
6/ 6/ 5	0.0	2631.99	-3.69
6/ 6/ 6	0.0	4827.92	3.22
6/ 6/ 7	0.0	4818.30	3.21
6/ 6/ 8	0.0	4807.92	3.20
6/ 6/ 9	0.0	3571.79	2.38
6/ 6/ 10	0.0	3561.42	2.37
6/ 6/ 11	0.0	219.34	2.44
6/ 6/ 12	0.0	4622.14	3.08
6/ 6/ 13	0.0	3375.63	2.25
6/ 6/ 14	0.0	23.18	2.31
6/ 6/ 15	0.0	797.65	-1.12
6/ 7/ 1	0.0	1294.90	-0.68
6/ 7/ 2	0.0	-27.91	0.38
6/ 7/ 3	0.0	11.66	0.02
6/ 7/ 4	0.0	-43.70	0.15
6/ 7/ 5	0.0	2631.99	-1.94
6/ 7/ 6	0.0	-1172.08	2.53
6/ 7/ 7	0.0	-1181.70	2.52
6/ 7/ 8	0.0	-1192.08	2.51
6/ 7/ 9	0.0	-2428.21	2.66
6/ 7/ 10	0.0	-2438.58	2.65
6/ 7/ 11	0.0	219.34	2.59
6/ 7/ 12	0.0	-1377.86	2.26
6/ 7/ 13	0.0	-2624.37	2.40
6/ 7/ 14	0.0	23.18	2.33
6/ 7/ 15	0.0	797.65	-0.59
7/ 7/ 1	0.0	1294.90	-0.68
7/ 7/ 2	0.0	-27.91	0.38
7/ 7/ 3	0.0	11.66	0.02
7/ 7/ 4	0.0	-43.70	0.15
7/ 7/ 5	0.0	2631.99	-1.94
7/ 7/ 6	0.0	-1172.08	2.53
7/ 7/ 7	0.0	-1181.70	2.52
7/ 7/ 8	0.0	-1192.08	2.51
7/ 7/ 9	0.0	-2428.21	2.66
7/ 7/ 10	0.0	-2438.58	2.65
7/ 7/ 11	0.0	219.34	2.59
7/ 7/ 12	0.0	-1377.86	2.26
7/ 7/ 13	0.0	-2624.37	2.40
7/ 7/ 14	0.0	23.18	2.33
7/ 7/ 15	0.0	797.65	-0.59
7/ 8/ 1	0.0	781.37	0.01
7/ 8/ 2	0.0	-662.20	0.14
7/ 8/ 3	0.0	-38.31	0.01
7/ 8/ 4	0.0	-203.70	0.07
7/ 8/ 5	0.0	2631.99	-0.18
7/ 8/ 6	0.0	-1172.08	1.75
7/ 8/ 7	0.0	-1181.70	1.73
7/ 8/ 8	0.0	-1192.08	1.71
7/ 8/ 9	0.0	-2428.21	1.04
7/ 8/ 10	0.0	-2438.58	1.02

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
7/ 8/ 11	0.0	-5780.66	1.65
7/ 8/ 12	0.0	-1377.86	1.34
7/ 8/ 13	0.0	-2624.37	0.65
7/ 8/ 14	0.0	-5976.82	1.25
7/ 8/ 15	0.0	797.65	-0.06
8/ 8/ 1	0.0	781.37	0.01
8/ 8/ 2	0.0	-662.20	0.14
8/ 8/ 3	0.0	-38.31	0.01
8/ 8/ 4	0.0	-203.70	0.07
8/ 8/ 5	0.0	2631.99	-0.18
8/ 8/ 6	0.0	-1172.08	1.75
8/ 8/ 7	0.0	-1181.70	1.73
8/ 8/ 8	0.0	-1192.08	1.71
8/ 8/ 9	0.0	-2428.21	1.04
8/ 8/ 10	0.0	-2438.58	1.02
8/ 8/ 11	0.0	-5780.66	1.65
8/ 8/ 12	0.0	-1377.86	1.34
8/ 8/ 13	0.0	-2624.37	0.65
8/ 8/ 14	0.0	-5976.82	1.25
8/ 8/ 15	0.0	797.65	-0.06
8/ 9/ 1	0.0	245.64	0.35
8/ 9/ 2	0.0	-1281.14	-0.50
8/ 9/ 3	0.0	-88.27	-0.03
8/ 9/ 4	0.0	-363.70	-0.12
8/ 9/ 5	0.0	2631.99	1.57
8/ 9/ 6	0.0	-7172.08	-2.31
8/ 9/ 7	0.0	-7181.70	-2.34
8/ 9/ 8	0.0	-7192.08	-2.37
8/ 9/ 9	0.0	-8428.21	-2.06
8/ 9/ 10	0.0	-8438.58	-2.09
8/ 9/ 11	0.0	-5780.66	-2.21
8/ 9/ 12	0.0	-7377.86	-2.86
8/ 9/ 13	0.0	-8624.37	-2.58
8/ 9/ 14	0.0	-5976.82	-2.73
8/ 9/ 15	0.0	797.65	0.48
9/ 9/ 1	0.0	919.94	0.35
9/ 9/ 2	0.0	975.14	-0.50
9/ 9/ 3	0.0	81.38	-0.03
9/ 9/ 4	0.0	-0.00	-0.12
9/ 9/ 5	0.0	0.18	1.57
9/ 9/ 6	0.0	-0.00	-2.31
9/ 9/ 7	0.0	73.46	-2.34
9/ 9/ 8	0.0	152.69	-2.37
9/ 9/ 9	0.0	-79.24	-2.06
9/ 9/ 10	0.0	-0.00	-2.09
9/ 9/ 11	0.0	-0.00	-2.21
9/ 9/ 12	0.0	1571.61	-2.86
9/ 9/ 13	0.0	1418.92	-2.58
9/ 9/ 14	0.0	1498.16	-2.73
9/ 9/ 15	0.0	0.00	0.48
9/ 10/ 1	0.0	467.33	0.73
9/ 10/ 2	0.0	482.48	-0.11

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
9/ 10/ 3	0.0	40.69	0.00
9/ 10/ 4	0.0	-0.00	-0.12
9/ 10/ 5	0.0	0.18	1.57
9/ 10/ 6	0.0	-0.00	-2.31
9/ 10/ 7	0.0	73.46	-2.30
9/ 10/ 8	0.0	152.69	-2.28
9/ 10/ 9	0.0	-79.24	-2.10
9/ 10/ 10	0.0	-0.00	-2.09
9/ 10/ 11	0.0	-0.00	-2.21
9/ 10/ 12	0.0	1571.61	-2.01
9/ 10/ 13	0.0	1418.92	-1.81
9/ 10/ 14	0.0	1498.16	-1.92
9/ 10/ 15	0.0	0.00	0.48
10/ 10/ 1	0.0	467.33	0.73
10/ 10/ 2	0.0	482.48	-0.11
10/ 10/ 3	0.0	40.69	0.00
10/ 10/ 4	0.0	-0.00	-0.12
10/ 10/ 5	0.0	0.18	1.57
10/ 10/ 6	0.0	-0.00	-2.31
10/ 10/ 7	0.0	73.46	-2.30
10/ 10/ 8	0.0	152.69	-2.28
10/ 10/ 9	0.0	-79.24	-2.10
10/ 10/ 10	0.0	-0.00	-2.09
10/ 10/ 11	0.0	-0.00	-2.21
10/ 10/ 12	0.0	1571.61	-2.01
10/ 10/ 13	0.0	1418.92	-1.81
10/ 10/ 14	0.0	1498.16	-1.92
10/ 10/ 15	0.0	0.00	0.48
10/ 11/ 1	0.0	0.00	0.86
10/ 11/ 2	0.0	0.00	0.02
10/ 11/ 3	0.0	0.00	0.01
10/ 11/ 4	0.0	-0.00	-0.12
10/ 11/ 5	0.0	0.18	1.57
10/ 11/ 6	0.0	-0.00	-2.31
10/ 11/ 7	0.0	73.46	-2.26
10/ 11/ 8	0.0	152.69	-2.20
10/ 11/ 9	0.0	-79.24	-2.15
10/ 11/ 10	0.0	-0.00	-2.09
10/ 11/ 11	0.0	-0.00	-2.21
10/ 11/ 12	0.0	1571.61	-1.16
10/ 11/ 13	0.0	1418.92	-1.04
10/ 11/ 14	0.0	1498.16	-1.10
10/ 11/ 15	0.0	0.00	0.48
11/ 11/ 1	0.0	0.00	0.86
11/ 11/ 2	0.0	0.00	0.02
11/ 11/ 3	0.0	0.00	0.01
11/ 11/ 4	0.0	0.00	-0.12
11/ 11/ 5	0.0	0.18	1.57
11/ 11/ 6	0.0	0.00	-2.31
11/ 11/ 7	0.0	73.46	-2.26
11/ 11/ 8	0.0	152.69	-2.20
11/ 11/ 9	0.0	-79.24	-2.15

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
11/ 11/ 10	0.0	0.00	-2.09
11/ 11/ 11	0.0	0.00	-2.21
11/ 11/ 12	0.0	1571.61	-1.16
11/ 11/ 13	0.0	1418.92	-1.04
11/ 11/ 14	0.0	1498.16	-1.10
11/ 11/ 15	0.0	-0.00	0.48
11/ 12/ 1	0.0	-467.33	0.73
11/ 12/ 2	0.0	-482.48	-0.11
11/ 12/ 3	0.0	-40.69	0.00
11/ 12/ 4	0.0	0.00	-0.12
11/ 12/ 5	0.0	0.18	1.57
11/ 12/ 6	0.0	0.00	-2.31
11/ 12/ 7	0.0	73.46	-2.22
11/ 12/ 8	0.0	152.69	-2.12
11/ 12/ 9	0.0	-79.24	-2.19
11/ 12/ 10	0.0	0.00	-2.09
11/ 12/ 11	0.0	0.00	-2.21
11/ 12/ 12	0.0	1571.61	-0.30
11/ 12/ 13	0.0	1418.92	-0.27
11/ 12/ 14	0.0	1498.16	-0.29
11/ 12/ 15	0.0	-0.00	0.48
12/ 12/ 1	0.0	-467.33	0.73
12/ 12/ 2	0.0	-482.48	-0.11
12/ 12/ 3	0.0	-40.69	0.00
12/ 12/ 4	0.0	0.00	-0.12
12/ 12/ 5	0.0	0.18	1.57
12/ 12/ 6	0.0	0.00	-2.31
12/ 12/ 7	0.0	73.46	-2.22
12/ 12/ 8	0.0	152.69	-2.12
12/ 12/ 9	0.0	-79.24	-2.19
12/ 12/ 10	0.0	0.00	-2.09
12/ 12/ 11	0.0	0.00	-2.21
12/ 12/ 12	0.0	1571.61	-0.30
12/ 12/ 13	0.0	1418.92	-0.27
12/ 12/ 14	0.0	1498.16	-0.29
12/ 12/ 15	0.0	-0.00	0.48
12/ 13/ 1	0.0	-919.94	0.35
12/ 13/ 2	0.0	-975.14	-0.50
12/ 13/ 3	0.0	-81.37	-0.03
12/ 13/ 4	0.0	0.00	-0.12
12/ 13/ 5	0.0	0.18	1.57
12/ 13/ 6	0.0	0.00	-2.31
12/ 13/ 7	0.0	73.46	-2.18
12/ 13/ 8	0.0	152.69	-2.04
12/ 13/ 9	0.0	-79.24	-2.23
12/ 13/ 10	0.0	0.00	-2.09
12/ 13/ 11	0.0	0.00	-2.21
12/ 13/ 12	0.0	1571.61	0.55
12/ 13/ 13	0.0	1418.92	0.50
12/ 13/ 14	0.0	1498.16	0.52
12/ 13/ 15	0.0	-0.00	0.48
13/ 13/ 1	0.0	-245.64	0.35

ROBOT v 13.5.0
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Dirección :
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Archivo : losa borges.rtd
Proyecto : losa borges

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
13/ 13/ 2	0.0	1281.14	-0.50
13/ 13/ 3	0.0	88.27	-0.03
13/ 13/ 4	0.0	363.70	-0.12
13/ 13/ 5	0.0	-2632.47	1.57
13/ 13/ 6	0.0	7172.08	-2.31
13/ 13/ 7	0.0	5771.05	-2.18
13/ 13/ 8	0.0	8418.59	-2.04
13/ 13/ 9	0.0	5791.04	-2.23
13/ 13/ 10	0.0	8438.58	-2.09
13/ 13/ 11	0.0	5780.66	-2.21
13/ 13/ 12	0.0	-205.78	0.55
13/ 13/ 13	0.0	-185.78	0.50
13/ 13/ 14	0.0	-196.16	0.52
13/ 13/ 15	0.0	-797.65	0.48
13/ 14/ 1	0.0	-781.37	0.01
13/ 14/ 2	0.0	662.20	0.14
13/ 14/ 3	0.0	38.31	0.01
13/ 14/ 4	0.0	203.70	0.07
13/ 14/ 5	0.0	-2632.47	-0.18
13/ 14/ 6	0.0	1172.08	1.75
13/ 14/ 7	0.0	5771.05	1.67
13/ 14/ 8	0.0	2418.59	1.06
13/ 14/ 9	0.0	5791.04	1.63
13/ 14/ 10	0.0	2438.58	1.02
13/ 14/ 11	0.0	5780.66	1.65
13/ 14/ 12	0.0	-205.78	0.41
13/ 14/ 13	0.0	-185.78	0.37
13/ 14/ 14	0.0	-196.16	0.39
13/ 14/ 15	0.0	-797.65	-0.06
14/ 14/ 1	0.0	-781.37	0.01
14/ 14/ 2	0.0	662.20	0.14
14/ 14/ 3	0.0	38.31	0.01
14/ 14/ 4	0.0	203.70	0.07
14/ 14/ 5	0.0	-2632.47	-0.18
14/ 14/ 6	0.0	1172.08	1.75
14/ 14/ 7	0.0	5771.05	1.67
14/ 14/ 8	0.0	2418.59	1.06
14/ 14/ 9	0.0	5791.04	1.63
14/ 14/ 10	0.0	2438.58	1.02
14/ 14/ 11	0.0	5780.66	1.65
14/ 14/ 12	0.0	-205.78	0.41
14/ 14/ 13	0.0	-185.78	0.37
14/ 14/ 14	0.0	-196.16	0.39
14/ 14/ 15	0.0	-797.65	-0.06
14/ 15/ 1	0.0	-1294.90	-0.68
14/ 15/ 2	0.0	27.91	0.38
14/ 15/ 3	0.0	-11.66	0.02
14/ 15/ 4	0.0	43.70	0.15
14/ 15/ 5	0.0	-2632.47	-1.94
14/ 15/ 6	0.0	1172.08	2.53
14/ 15/ 7	0.0	-228.95	2.60
14/ 15/ 8	0.0	2418.59	2.67

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
14/ 15/ 9	0.0	-208.96	2.57
14/ 15/ 10	0.0	2438.58	2.65
14/ 15/ 11	0.0	-219.34	2.59
14/ 15/ 12	0.0	-205.78	0.27
14/ 15/ 13	0.0	-185.78	0.25
14/ 15/ 14	0.0	-196.16	0.26
14/ 15/ 15	0.0	-797.65	-0.59
15/ 15/ 1	0.0	-1294.90	-0.68
15/ 15/ 2	0.0	27.91	0.38
15/ 15/ 3	0.0	-11.66	0.02
15/ 15/ 4	0.0	43.70	0.15
15/ 15/ 5	0.0	-2632.47	-1.94
15/ 15/ 6	0.0	1172.08	2.53
15/ 15/ 7	0.0	-228.95	2.60
15/ 15/ 8	0.0	2418.59	2.67
15/ 15/ 9	0.0	-208.96	2.57
15/ 15/ 10	0.0	2438.58	2.65
15/ 15/ 11	0.0	-219.34	2.59
15/ 15/ 12	0.0	-205.78	0.27
15/ 15/ 13	0.0	-185.78	0.25
15/ 15/ 14	0.0	-196.16	0.26
15/ 15/ 15	0.0	-797.65	-0.59
15/ 16/ 1	0.0	-1786.24	-1.71
15/ 16/ 2	0.0	-621.71	0.18
15/ 16/ 3	0.0	-61.63	-0.01
15/ 16/ 4	0.0	-116.30	0.13
15/ 16/ 5	0.0	-2632.47	-3.69
15/ 16/ 6	0.0	-4827.92	3.22
15/ 16/ 7	0.0	-228.95	2.45
15/ 16/ 8	0.0	-3581.41	2.39
15/ 16/ 9	0.0	-208.96	2.43
15/ 16/ 10	0.0	-3561.42	2.37
15/ 16/ 11	0.0	-219.34	2.44
15/ 16/ 12	0.0	-205.78	0.14
15/ 16/ 13	0.0	-185.78	0.12
15/ 16/ 14	0.0	-196.16	0.13
15/ 16/ 15	0.0	-797.65	-1.12
16/ 16/ 1	0.0	-1786.24	-1.71
16/ 16/ 2	0.0	-621.71	0.18
16/ 16/ 3	0.0	-61.63	-0.01
16/ 16/ 4	0.0	-116.30	0.13
16/ 16/ 5	0.0	-2632.47	-3.69
16/ 16/ 6	0.0	-4827.92	3.22
16/ 16/ 7	0.0	-228.95	2.45
16/ 16/ 8	0.0	-3581.41	2.39
16/ 16/ 9	0.0	-208.96	2.43
16/ 16/ 10	0.0	-3561.42	2.37
16/ 16/ 11	0.0	-219.34	2.44
16/ 16/ 12	0.0	-205.78	0.14
16/ 16/ 13	0.0	-185.78	0.12
16/ 16/ 14	0.0	-196.16	0.13
16/ 16/ 15	0.0	-797.65	-1.12

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
16/ 17/ 1	0.0	-2255.39	-3.06
16/ 17/ 2	0.0	-1286.67	-0.46
16/ 17/ 3	0.0	-111.60	-0.06
16/ 17/ 4	0.0	-276.30	0.00
16/ 17/ 5	0.0	-2632.47	-5.45
16/ 17/ 6	0.0	-4827.92	0.00
16/ 17/ 7	0.0	-6228.95	-0.00
16/ 17/ 8	0.0	-3581.41	-0.00
16/ 17/ 9	0.0	-6208.96	0.00
16/ 17/ 10	0.0	-3561.42	-0.00
16/ 17/ 11	0.0	-6219.34	-0.00
16/ 17/ 12	0.0	-205.78	0.00
16/ 17/ 13	0.0	-185.78	-0.00
16/ 17/ 14	0.0	-196.16	-0.00
16/ 17/ 15	0.0	-797.65	-1.65
17/ 17/ 1	0.0	1970.31	-3.06
17/ 17/ 2	0.0	922.24	-0.46
17/ 17/ 3	0.0	97.50	-0.06
17/ 17/ 4	0.0	0.00	0.00
17/ 17/ 5	0.0	2055.00	-5.45
17/ 17/ 6	0.0	-0.00	0.00
17/ 17/ 7	0.0	-0.00	0.00
17/ 17/ 8	0.0	-0.00	0.00
17/ 17/ 9	0.0	0.00	0.00
17/ 17/ 10	0.0	0.00	0.00
17/ 17/ 11	0.0	0.00	0.00
17/ 17/ 12	0.0	-0.00	0.00
17/ 17/ 13	0.0	0.00	0.00
17/ 17/ 14	0.0	-0.00	0.00
17/ 17/ 15	0.0	750.00	-1.65
17/ 18/ 1	0.0	1428.22	-1.68
17/ 18/ 2	0.0	174.58	-0.03
17/ 18/ 3	0.0	36.56	-0.01
17/ 18/ 4	0.0	0.00	0.00
17/ 18/ 5	0.0	2055.00	-3.78
17/ 18/ 6	0.0	-0.00	0.00
17/ 18/ 7	0.0	-0.00	0.00
17/ 18/ 8	0.0	-0.00	0.00
17/ 18/ 9	0.0	0.00	0.00
17/ 18/ 10	0.0	0.00	0.00
17/ 18/ 11	0.0	0.00	0.00
17/ 18/ 12	0.0	-0.00	0.00
17/ 18/ 13	0.0	0.00	0.00
17/ 18/ 14	0.0	-0.00	0.00
17/ 18/ 15	0.0	750.00	-1.04
18/ 18/ 1	0.0	1428.22	-1.68
18/ 18/ 2	0.0	174.58	-0.03
18/ 18/ 3	0.0	36.56	-0.01
18/ 18/ 4	0.0	0.00	-0.00
18/ 18/ 5	0.0	2055.00	-3.78
18/ 18/ 6	0.0	0.00	-0.00
18/ 18/ 7	0.0	0.00	-0.00

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
18/ 18/ 8	0.0	0.00	-0.00
18/ 18/ 9	0.0	-0.00	-0.00
18/ 18/ 10	0.0	0.00	-0.00
18/ 18/ 11	0.0	-0.00	-0.00
18/ 18/ 12	0.0	0.00	-0.00
18/ 18/ 13	0.0	0.00	-0.00
18/ 18/ 14	0.0	-0.00	-0.00
18/ 18/ 15	0.0	750.00	-1.04
18/ 19/ 1	0.0	919.14	-0.73
18/ 19/ 2	0.0	-0.00	-0.00
18/ 19/ 3	0.0	-0.00	0.00
18/ 19/ 4	0.0	0.00	-0.00
18/ 19/ 5	0.0	1805.00	-2.16
18/ 19/ 6	0.0	0.00	-0.00
18/ 19/ 7	0.0	0.00	-0.00
18/ 19/ 8	0.0	0.00	-0.00
18/ 19/ 9	0.0	-0.00	-0.00
18/ 19/ 10	0.0	0.00	-0.00
18/ 19/ 11	0.0	-0.00	-0.00
18/ 19/ 12	0.0	0.00	-0.00
18/ 19/ 13	0.0	0.00	-0.00
18/ 19/ 14	0.0	-0.00	-0.00
18/ 19/ 15	0.0	662.50	-0.44
19/ 19/ 1	0.0	919.14	-0.73
19/ 19/ 2	0.0	-0.00	-0.00
19/ 19/ 3	0.0	-0.00	-0.00
19/ 19/ 4	0.0	0.00	0.00
19/ 19/ 5	0.0	1805.00	-2.16
19/ 19/ 6	0.0	0.00	0.00
19/ 19/ 7	0.0	-0.00	0.00
19/ 19/ 8	0.0	-0.00	0.00
19/ 19/ 9	0.0	0.00	-0.00
19/ 19/ 10	0.0	0.00	0.00
19/ 19/ 11	0.0	0.00	0.00
19/ 19/ 12	0.0	0.00	0.00
19/ 19/ 13	0.0	-0.00	0.00
19/ 19/ 14	0.0	0.00	-0.00
19/ 19/ 15	0.0	662.50	-0.44
19/ 20/ 1	0.0	442.78	-0.18
19/ 20/ 2	0.0	-0.00	-0.00
19/ 20/ 3	0.0	-0.00	-0.00
19/ 20/ 4	0.0	0.00	0.00
19/ 20/ 5	0.0	1805.00	-0.69
19/ 20/ 6	0.0	0.00	0.00
19/ 20/ 7	0.0	-0.00	0.00
19/ 20/ 8	0.0	-0.00	0.00
19/ 20/ 9	0.0	0.00	0.00
19/ 20/ 10	0.0	0.00	0.00
19/ 20/ 11	0.0	0.00	0.00
19/ 20/ 12	0.0	0.00	0.00
19/ 20/ 13	0.0	-0.00	0.00
19/ 20/ 14	0.0	0.00	0.00

Barra/Nudo/Caso	FX (kG)	FZ (kG)	MY (Tm)
19/ 20/ 15	0.0	256.00	-0.07
20/ 20/ 1	0.0	442.78	-0.18
20/ 20/ 2	0.0	-0.00	0.00
20/ 20/ 3	0.0	0.00	-0.00
20/ 20/ 4	0.0	0.00	-0.00
20/ 20/ 5	0.0	1805.00	-0.69
20/ 20/ 6	0.0	0.00	-0.00
20/ 20/ 7	0.0	0.00	-0.00
20/ 20/ 8	0.0	-0.00	0.00
20/ 20/ 9	0.0	0.00	-0.00
20/ 20/ 10	0.0	0.00	-0.00
20/ 20/ 11	0.0	0.00	-0.00
20/ 20/ 12	0.0	0.00	-0.00
20/ 20/ 13	0.0	-0.00	0.00
20/ 20/ 14	0.0	0.00	0.00
20/ 20/ 15	0.0	256.00	-0.07
20/ 21/ 1	0.0	-0.00	-0.00
20/ 21/ 2	0.0	-0.00	-0.00
20/ 21/ 3	0.0	0.00	-0.00
20/ 21/ 4	0.0	0.00	0.00
20/ 21/ 5	0.0	-0.00	-0.00
20/ 21/ 6	0.0	0.00	0.00
20/ 21/ 7	0.0	0.00	0.00
20/ 21/ 8	0.0	-0.00	-0.00
20/ 21/ 9	0.0	0.00	0.00
20/ 21/ 10	0.0	0.00	0.00
20/ 21/ 11	0.0	0.00	0.00
20/ 21/ 12	0.0	0.00	0.00
20/ 21/ 13	0.0	-0.00	0.00
20/ 21/ 14	0.0	0.00	0.00
20/ 21/ 15	0.0	-0.00	-0.00

Subanejo 13.2

ESFUERZOS GENERALES EN LOSA

ARRA	X (m)	P PROPIO			P LOSA			CM BALASTO			CM RESTO			TREN A POS			TREN A NEG		
		M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)
(1)	0.00	0.50	0.00	0.00	-2.70	0.00	0.00	-0.20	0.00	0.00	-5.00	0.00	0.00	2.35	0.00	1.04	-0.43	0.00	-0.95
(2)	0.00	0.50	0.00	0.00	-2.70	0.00	0.00	-0.20	0.00	0.00	-5.00	0.00	0.00	0.22	0.00	-0.18	0.22	0.00	0.18
(3)	0.00	0.50	0.00	0.00	-2.70	0.00	0.00	-0.20	0.00	0.00	-5.00	0.00	0.00	2.70	0.00	-1.14	-0.79	0.00	1.04
(1)	1.00	2.30	0.00	0.00	-12.60	0.00	0.00	-1.10	0.00	0.00	-23.60	0.00	0.00	7.97	0.00	3.82	-3.56	0.00	-3.82
(2)	1.00	2.30	0.00	0.00	-12.60	0.00	0.00	-1.10	0.00	0.00	-23.60	0.00	0.00	3.82	0.00	-0.72	1.73	0.00	0.72
(3)	1.00	2.30	0.00	0.00	-12.60	0.00	0.00	-1.10	0.00	0.00	-23.60	0.00	0.00	9.87	0.00	-4.19	-5.26	0.00	4.19
(1)	4.70	4.10	0.00	0.00	-22.30	0.00	0.00	-1.90	0.00	0.00	-42.20	0.00	0.00	12.61	-1.04	5.65	-2.69	1.04	-5.63
(2)	4.70	4.10	0.00	0.00	-22.30	0.00	0.00	-1.90	0.00	0.00	-42.20	0.00	0.00	4.91	0.00	-0.98	2.82	0.00	0.98
(3)	4.70	4.10	0.00	0.00	-22.30	0.00	0.00	-1.90	0.00	0.00	-42.20	0.00	0.00	15.38	1.04	-6.55	-5.66	-1.04	6.53
D(1)	9.40	3.40	0.00	0.00	-16.70	0.00	0.00	-1.80	0.00	0.00	-35.40	0.00	0.00	21.76	0.00	11.55	-13.85	0.00	-11.55
D(2)	9.40	3.40	0.00	0.00	-16.70	0.00	0.00	-1.80	0.00	0.00	-35.40	0.00	0.00	4.57	0.00	-0.63	2.48	0.00	0.63
D(3)	9.40	3.40	0.00	0.00	-16.70	0.00	0.00	-1.80	0.00	0.00	-35.40	0.00	0.00	23.73	0.00	-12.81	-15.83	0.00	12.81
1(1)	11.75	2.30	0.00	0.00	-12.40	0.00	0.00	-1.00	0.00	0.00	-23.60	0.00	0.00	15.95	0.00	7.73	-11.86	0.00	-7.73
1(2)	11.75	2.30	0.00	0.00	-12.40	0.00	0.00	-1.00	0.00	0.00	-23.60	0.00	0.00	3.82	0.00	-0.44	1.73	0.00	0.44
1(3)	11.75	2.30	0.00	0.00	-12.40	0.00	0.00	-1.00	0.00	0.00	-23.60	0.00	0.00	17.37	0.00	-8.62	-13.28	0.00	8.62
2(1)	14.10	3.50	0.00	0.00	-18.60	0.00	0.00	-1.50	0.00	0.00	-35.40	0.00	0.00	23.75	0.00	12.50	-16.89	0.00	-12.50
2(2)	14.10	3.50	0.00	0.00	-18.60	0.00	0.00	-1.50	0.00	0.00	-35.40	0.00	0.00	4.49	0.00	-0.72	2.41	0.00	0.72
2(3)	14.10	3.50	0.00	0.00	-18.60	0.00	0.00	-1.50	0.00	0.00	-35.40	0.00	0.00	25.91	0.00	-13.94	-19.05	0.00	13.94
3(1)	18.80	4.20	0.00	0.00	-22.10	0.00	0.00	-1.80	0.00	0.00	-42.10	0.00	0.00	20.55	1.04	10.85	-11.62	-1.04	-10.85
3(2)	18.80	4.20	0.00	0.00	-22.10	0.00	0.00	-1.80	0.00	0.00	-42.10	0.00	0.00	4.91	0.00	-1.07	2.82	0.00	1.07
3(3)	18.80	4.20	0.00	0.00	-22.10	0.00	0.00	-1.80	0.00	0.00	-42.10	0.00	0.00	23.07	-1.04	-11.77	-14.95	1.04	11.77
4(1)	22.50	2.40	0.00	0.00	-12.30	0.00	0.00	-1.00	0.00	0.00	-23.50	0.00	0.00	8.84	0.00	4.86	-4.50	0.00	-4.86
4(2)	22.50	2.40	0.00	0.00	-12.30	0.00	0.00	-1.00	0.00	0.00	-23.50	0.00	0.00	3.74	0.00	-0.72	1.66	0.00	0.72
4(3)	22.50	2.40	0.00	0.00	-12.30	0.00	0.00	-1.00	0.00	0.00	-23.50	0.00	0.00	10.81	0.00	-5.23	-8.47	0.00	5.23
5(1)	23.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	3.44	0.00	2.00	-2.01	0.00	-2.00
5(2)	23.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	0.64	0.00	-0.28	0.64	0.00	0.28
5(3)	23.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	4.25	0.00	-2.18	-2.82	0.00	2.18
6(1)	24.50	2.90	0.00	0.00	-15.20	0.00	0.00	-1.20	0.00	0.00	-29.00	0.00	0.00	12.11	0.00	5.91	-5.03	0.00	-5.91
6(2)	24.50	2.90	0.00	0.00	-15.20	0.00	0.00	-1.20	0.00	0.00	-29.00	0.00	0.00	4.16	0.00	-0.90	2.07	0.00	0.90
6(3)	24.50	2.90	0.00	0.00	-15.20	0.00	0.00	-1.20	0.00	0.00	-29.00	0.00	0.00	14.46	0.00	-8.27	-7.37	0.00	8.27
7(1)	29.30	5.40	0.00	0.00	-27.80	0.00	0.00	-2.20	0.00	0.00	-53.10	0.00	0.00	31.28	-1.04	16.67	-19.05	1.04	-16.67
7(2)	29.30	5.40	0.00	0.00	-27.80	0.00	0.00	-2.20	0.00	0.00	-53.10	0.00	0.00	7.90	0.00	-1.26	3.73	0.00	1.26
7(3)	29.30	5.40	0.00	0.00	-27.80	0.00	0.00	-2.20	0.00	0.00	-53.10	0.00	0.00	35.06	1.04	-17.78	-22.83	-1.04	17.78
8(1)	35.10	4.40	0.00	0.00	-22.90	0.00	0.00	-1.80	0.00	0.00	-43.60	0.00	0.00	37.38	0.00	19.71	-28.40	0.00	-19.64
8(2)	35.10	4.40	0.00	0.00	-22.90	0.00	0.00	-1.80	0.00	0.00	-43.60	0.00	0.00	4.94	0.00	-0.72	2.86	0.00	0.72
8(3)	35.10	4.40	0.00	0.00	-22.90	0.00	0.00	-1.80	0.00	0.00	-43.60	0.00	0.00	39.63	0.00	-21.08	-30.65	0.00	21.00
9(1)	38.00	2.90	0.00	0.00	-15.20	0.00	0.00	-1.20	0.00	0.00	-29.00	0.00	0.00	25.70	0.00	14.94	-19.66	0.00	-14.87
9(2)	38.00	2.90	0.00	0.00	-15.20	0.00	0.00	-1.20	0.00	0.00	-29.00	0.00	0.00	4.08	0.00	-0.44	1.99	0.00	0.44
9(3)	38.00	2.90	0.00	0.00	-15.20	0.00	0.00	-1.20	0.00	0.00	-29.00	0.00	0.00	26.97	0.00	-15.76	-20.93	0.00	15.66
10(1)	40.90	4.40	0.00	0.00	-22.80	0.00	0.00	-1.80	0.00	0.00	-43.60	0.00	0.00	38.42	0.00	21.63	-28.40	0.00	-21.55
10(2)	40.90	4.40	0.00	0.00	-22.80	0.00	0.00	-1.80	0.00	0.00	-43.60	0.00	0.00	4.94	0.00	-0.72	2.86	0.00	0.72
10(3)	40.90	4.40	0.00	0.00	-22.80	0.00	0.00	-1.80	0.00	0.00	-43.60	0.00	0.00	40.68	0.00	-22.99	-30.65	0.00	22.92
11(1)	46.70	5.40	0.00	0.00	-27.80	0.00	0.00	-2.10	0.00	0.00	-53.00	0.00	0.00	34.27	1.04	18.59	-22.06	-1.04	-18.68
11(2)	46.70	5.40	0.00	0.00	-27.80	0.00	0.00	-2.10	0.00	0.00	-53.00	0.00	0.00	7.90	0.00	-1.26	3.73	0.00	1.26
11(3)	46.70	5.40	0.00	0.00	-27.80	0.00	0.00	-2.10	0.00	0.00	-53.00	0.00	0.00	37.79	-1.04	-19.60	-25.56	1.04	19.69
12(1)	51.50	3.00	0.00	0.00	-15.10	0.00	0.00	-1.10	0.00	0.00	-29.00	0.00	0.00	12.11	0.00	5.81	-6.15	0.00	-5.81
12(2)	51.50	3.00	0.00	0.00	-15.10	0.00	0.00	-1.10	0.00	0.00	-29.00	0.00	0.00	4.06	0.00	-0.90	1.99	0.00	0.90
12(3)	51.50	3.00	0.00	0.00	-15.10	0.00	0.00	-1.10	0.00	0.00	-29.00	0.00	0.00	14.38	0.00	-8.37	-8.42	0.00	8.27
13(1)	52.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	3.33	0.00	2.00	-2.13	0.00	-2.00
13(2)	52.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	0.56	0.00	-0.28	0.56	0.00	0.28
13(3)	52.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	4.14	0.00	-2.18	-2.94	0.00	2.18
14(1)	53.50	3.00	0.00	0.00	-15.10	0.00	0.00	-1.10	0.00	0.00	-29.00	0.00	0.00	12.11	0.00	5.91	-6.15	0.00	-5.81
14(2)	53.50	3.00	0.00	0.00	-15.10	0.00	0.00	-1.10	0.00	0.00	-29.00	0.00	0.00	4.06	0.00	-0.90	1.99	0.00	0.90
14(3)	53.50	3.00	0.00	0.00	-15.10	0.00	0.00	-1.10	0.00	0.00	-29.00	0.00	0.00	14.38	0.00	-8.37	-8.42	0.00	8.27
15(1)	58.30	5.50	0.00	0.00	-27.70	0.00	0.00	-2.10	0.00	0.00	-53.00	0.00	0.00	34.27	-1.04	18.59	-22.06	1.04	-18.68
15(2)	58.30	5.50	0.00	0.00	-27.70	0.00	0.00	-2.10	0.00	0.00	-53.00	0.00	0.00	7.82	0.00	-1.26	3.65	0.00	1.26
15(3)	58.30	5.50	0.00	0.00	-27.70	0.00	0.00	-2.10	0.00	0.00	-53.00	0.00	0.00	37.79	1.04	-19.60	-25.58	-1.04	19.69
16(1)	64.10	4.50	0.00	0.00	-22.80	0.00	0.00	-1.80	0.00	0.00	-43.50	0.00	0.00	36.42	0.00	21.63	-29.52	0.00	-21.55
16(2)	64.10	4.50	0.00	0.00	-22.80	0.00	0.00	-1.80	0.00	0.00	-43.50	0.00	0.00	4.94	0.00	-0.72	2.86	0.00	0.72
16(3)	64.10	4.50	0.00	0.00	-22.80	0.00	0.00	-1.80	0.00	0.00	-43.50	0.00	0.00	40.80	0.00	-22.98	-31.70	0.00	22.92
17(1)	67.00	3.00	0.00	0.00	-15.20	0.00	0.00	-1.20	0.00	0.00	-29.00	0.00	0.00	26.67	0.00	14.94	-20.71	0.00	-14.87
17(2)	67.00	3.00	0.00	0.00	-15.20	0.00	0.00	-1.20	0.00	0.00	-29.00	0.00	0.00	4.08	0.00	-0.44	1.99	0.00	0.44
17(3)	67.00	3.00	0.00	0.00	-15.20	0.00	0.00	-1.20	0.00	0.00	-29.00	0.00	0.00	28.01	0.00	-15.76	-22.05	0.00	15.66

RESUMEN ESFUERZOS GENERALES

ARRA	X (m)	P PROPIO			P LOSA			CM BALASTO			CM RESTO			TREN A POS			TREN A NEG		
		M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)
(1)	69.90	4.50	0.00	0.00	-22.80	0.00	0.00	-1.70	0.00	0.00	-43.60	0.00	0.00	40.24	0.00	21.63	-29.53	0.00	-21.65
(2)	69.90	4.50	0.00	0.00	-22.80	0.00	0.00	-1.70	0.00	0.00	-43.60	0.00	0.00	7.26	0.00	-0.72	3.09	0.00	0.72
(3)	69.90	4.50	0.00	0.00	-22.80	0.00	0.00	-1.70	0.00	0.00	-43.60	0.00	0.00	42.60	0.00	-22.99	-31.80	0.00	22.92
(1)	75.70	5.50	0.00	0.00	-27.70	0.00	0.00	-2.10	0.00	0.00	-53.00	0.00	0.00	36.36	1.04	19.82	-25.10	-1.04	-19.72
(2)	75.70	5.50	0.00	0.00	-27.70	0.00	0.00	-2.10	0.00	0.00	-53.00	0.00	0.00	7.82	0.00	-1.35	3.65	0.00	1.35
(3)	75.70	5.50	0.00	0.00	-27.70	0.00	0.00	-2.10	0.00	0.00	-53.00	0.00	0.00	39.81	-1.04	-20.64	-28.54	1.04	20.55
(1)	80.50	3.00	0.00	0.00	-15.10	0.00	0.00	-1.10	0.00	0.00	-29.00	0.00	0.00	15.16	0.00	6.95	-7.29	0.00	-6.95
(2)	80.50	3.00	0.00	0.00	-15.10	0.00	0.00	-1.10	0.00	0.00	-29.00	0.00	0.00	4.08	0.00	-0.90	1.99	0.00	0.90
(3)	80.50	3.00	0.00	0.00	-15.10	0.00	0.00	-1.10	0.00	0.00	-29.00	0.00	0.00	17.25	0.00	-7.32	-9.37	0.00	7.32
(1)	81.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	4.49	0.00	2.00	-2.01	0.00	-2.00
(2)	81.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	0.56	0.00	-0.28	0.56	0.00	0.28
(3)	81.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	5.30	0.00	-2.18	-2.82	0.00	2.18
(1)	82.50	3.30	0.00	0.00	-16.40	0.00	0.00	-1.20	0.00	0.00	-31.50	0.00	0.00	14.31	0.00	6.86	-7.01	0.00	-6.86
(2)	82.50	3.30	0.00	0.00	-16.40	0.00	0.00	-1.20	0.00	0.00	-31.50	0.00	0.00	4.19	0.00	-1.00	2.11	0.00	1.00
(3)	82.50	3.30	0.00	0.00	-16.40	0.00	0.00	-1.20	0.00	0.00	-31.50	0.00	0.00	16.66	0.00	-7.41	-9.35	0.00	7.41
(1)	87.80	6.00	0.00	0.00	-30.30	0.00	0.00	-2.30	0.00	0.00	-58.00	0.00	0.00	38.80	-1.04	20.68	-25.36	1.04	-20.68
(2)	87.80	6.00	0.00	0.00	-30.30	0.00	0.00	-2.30	0.00	0.00	-58.00	0.00	0.00	8.13	0.00	-1.35	3.95	0.00	1.35
(3)	87.80	6.00	0.00	0.00	-30.30	0.00	0.00	-2.30	0.00	0.00	-58.00	0.00	0.00	42.50	1.04	-21.78	-29.06	-1.04	21.78
(1)	94.10	4.80	0.00	0.00	-24.80	0.00	0.00	-1.90	0.00	0.00	-47.30	0.00	0.00	44.84	0.00	24.85	-33.29	0.00	-24.78
(2)	94.10	4.80	0.00	0.00	-24.80	0.00	0.00	-1.90	0.00	0.00	-47.30	0.00	0.00	7.49	0.00	-0.63	3.31	0.00	0.63
(3)	94.10	4.80	0.00	0.00	-24.80	0.00	0.00	-1.90	0.00	0.00	-47.30	0.00	0.00	46.93	0.00	-26.03	-35.37	0.00	25.96
(1)	97.25	3.20	0.00	0.00	-16.50	0.00	0.00	-1.30	0.00	0.00	-31.50	0.00	0.00	30.96	0.00	17.03	-24.59	0.00	-17.03
(2)	97.25	3.20	0.00	0.00	-16.50	0.00	0.00	-1.30	0.00	0.00	-31.50	0.00	0.00	4.19	0.00	-0.37	2.11	0.00	0.37
(3)	97.25	3.20	0.00	0.00	-16.50	0.00	0.00	-1.30	0.00	0.00	-31.50	0.00	0.00	32.14	0.00	-17.77	-25.76	0.00	17.77
(1)	100.40	4.80	0.00	0.00	-24.80	0.00	0.00	-1.90	0.00	0.00	-47.30	0.00	0.00	45.60	0.00	24.76	-33.33	0.00	-24.68
(2)	100.40	4.80	0.00	0.00	-24.80	0.00	0.00	-1.90	0.00	0.00	-47.30	0.00	0.00	7.49	0.00	-0.72	3.31	0.00	0.72
(3)	100.40	4.80	0.00	0.00	-24.80	0.00	0.00	-1.90	0.00	0.00	-47.30	0.00	0.00	47.76	0.00	-26.12	-35.49	0.00	26.05
(1)	106.70	6.00	0.00	0.00	-30.30	0.00	0.00	-2.30	0.00	0.00	-58.00	0.00	0.00	39.64	1.04	21.72	-27.56	-1.04	-21.81
(2)	106.70	6.00	0.00	0.00	-30.30	0.00	0.00	-2.30	0.00	0.00	-58.00	0.00	0.00	8.13	0.00	-1.35	3.95	0.00	1.35
(3)	106.70	6.00	0.00	0.00	-30.30	0.00	0.00	-2.30	0.00	0.00	-58.00	0.00	0.00	43.43	-1.04	-22.73	-31.36	1.04	22.82
(1)	112.00	3.30	0.00	0.00	-16.40	0.00	0.00	-1.20	0.00	0.00	-31.50	0.00	0.00	16.24	0.00	7.99	-8.99	0.00	-7.99
(2)	112.00	3.30	0.00	0.00	-16.40	0.00	0.00	-1.20	0.00	0.00	-31.50	0.00	0.00	4.19	0.00	-1.00	2.11	0.00	1.00
(3)	112.00	3.30	0.00	0.00	-16.40	0.00	0.00	-1.20	0.00	0.00	-31.50	0.00	0.00	18.67	0.00	-8.36	-11.43	0.00	8.36
(1)	113.00	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	5.36	0.00	2.00	-2.01	0.00	-2.00
(2)	113.00	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	0.56	0.00	-0.28	0.56	0.00	0.28
(3)	113.00	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	6.17	0.00	-2.18	-2.82	0.00	2.18
(1)	114.00	3.30	0.00	0.00	-16.40	0.00	0.00	-1.20	0.00	0.00	-31.50	0.00	0.00	16.15	0.00	7.99	-8.99	0.00	-7.99
(2)	114.00	3.30	0.00	0.00	-16.40	0.00	0.00	-1.20	0.00	0.00	-31.50	0.00	0.00	4.19	0.00	-1.00	2.11	0.00	1.00
(3)	114.00	3.30	0.00	0.00	-16.40	0.00	0.00	-1.20	0.00	0.00	-31.50	0.00	0.00	18.67	0.00	-8.36	-11.52	0.00	8.36
(1)	119.30	6.00	0.00	0.00	-30.40	0.00	0.00	-2.30	0.00	0.00	-58.00	0.00	0.00	39.64	-1.04	21.72	-27.56	1.04	-21.81
(2)	119.30	6.00	0.00	0.00	-30.40	0.00	0.00	-2.30	0.00	0.00	-58.00	0.00	0.00	8.13	0.00	-1.35	3.95	0.00	1.35
(3)	119.30	6.00	0.00	0.00	-30.40	0.00	0.00	-2.30	0.00	0.00	-58.00	0.00	0.00	43.43	1.04	-22.73	-31.36	-1.04	22.82
(1)	125.60	4.80	0.00	0.00	-24.80	0.00	0.00	-2.00	0.00	0.00	-47.30	0.00	0.00	45.60	0.00	24.76	-33.33	0.00	-24.68
(2)	125.60	4.80	0.00	0.00	-24.80	0.00	0.00	-2.00	0.00	0.00	-47.30	0.00	0.00	7.49	0.00	-0.72	3.31	0.00	0.72
(3)	125.60	4.80	0.00	0.00	-24.80	0.00	0.00	-2.00	0.00	0.00	-47.30	0.00	0.00	47.76	0.00	-26.12	-35.49	0.00	26.05
(1)	128.75	3.20	0.00	0.00	-16.60	0.00	0.00	-1.30	0.00	0.00	-31.60	0.00	0.00	29.92	0.00	15.99	-23.54	0.00	-15.91
(2)	128.75	3.20	0.00	0.00	-16.60	0.00	0.00	-1.30	0.00	0.00	-31.60	0.00	0.00	4.27	0.00	-0.37	2.18	0.00	0.37
(3)	128.75	3.20	0.00	0.00	-16.60	0.00	0.00	-1.30	0.00	0.00	-31.60	0.00	0.00	31.09	0.00	-16.80	-24.72	0.00	16.72
(1)	131.90	4.80	0.00	0.00	-24.80	0.00	0.00	-2.00	0.00	0.00	-47.30	0.00	0.00	42.64	0.00	22.94	-33.33	0.00	-22.86
(2)	131.90	4.80	0.00	0.00	-24.80	0.00	0.00	-2.00	0.00	0.00	-47.30	0.00	0.00	7.49	0.00	-0.63	3.31	0.00	0.63
(3)	131.90	4.80	0.00	0.00	-24.80	0.00	0.00	-2.00	0.00	0.00	-47.30	0.00	0.00	44.80	0.00	-24.12	-35.49	0.00	24.04
(1)	138.20	5.90	0.00	0.00	-30.50	0.00	0.00	-2.40	0.00	0.00	-58.10	0.00	0.00	33.72	1.04	18.69	-21.49	-1.04	-18.67
(2)	138.20	5.90	0.00	0.00	-30.50	0.00	0.00	-2.40	0.00	0.00	-58.10	0.00	0.00	8.13	0.00	-1.35	3.95	0.00	1.35
(3)	138.20	5.90	0.00	0.00	-30.50	0.00	0.00	-2.40	0.00	0.00	-58.10	0.00	0.00	37.67	-1.04	-19.96	-25.44	1.04	19.94
(1)	143.50	3.20	0.00	0.00	-16.50	0.00	0.00	-1.30	0.00	0.00	-31.50	0.00	0.00	15.21	0.00	6.95	-6.80	0.00	-6.95
(2)	143.50	3.20	0.00	0.00	-16.50	0.00	0.00	-1.30	0.00	0.00	-31.50	0.00	0.00	4.27	0.00	-1.07	2.18	0.00	1.07
(3)	143.50	3.20	0.00	0.00	-16.50	0.00	0.00	-1.30	0.00	0.00	-31.50	0.00	0.00	17.73	0.00	-7.32	-9.33	0.00	7.32
(1)	144.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	5.36	0.00	2.09	-2.01	0.00	-2.09
(2)	144.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	0.64	0.00	-0.28	0.64	0.00	0.28
(3)	144.50	1.00	0.00	0.00	-5.20	0.00	0.00	-0.40	0.00	0.00	-10.00	0.00	0.00	6.17	0.00	-2.09	-2.82	0.00	2.09
(1)	145.50	2.40	0.00	0.00	-12.30	0.00	0.00	-1.00	0.00	0.00	-23.50	0.00	0.00	9.87	0.00	6.00	-5.55	0.00	-6.00
(2)	145.50	2.40	0.00	0.00	-12.30	0.00	0.00	-1.00	0.00	0.00	-23.50	0.00	0.00	3.74	0.00	-0.72	1.66	0.00	0.72
(3)	145.50	2.40	0.00	0.00	-12.30	0.00	0.00	-1.00	0.00	0.00	-23.50	0.00	0.00	11.85	0.00	-6.18	-7.53	0.00	6.18

RESUMEN ESFUERZOS GENERALES

ARRA	X (m)	P PROPIO			P LOSA			CM BALASTO			CM RESTO			TREN A POS			TREN A NEG		
			(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M
9(1)	149.20	4.20	0.00	0.00	-22.10	0.00	0.00	-1.80	0.00	0.00	-42.10	0.00	0.00	23.51	-1.04	12.86	-13.71	1.04	-12.86
9(2)	149.20	4.20	0.00	0.00	-22.10	0.00	0.00	-1.80	0.00	0.00	-42.10	0.00	0.00	4.91	0.00	-1.16	2.82	0.00	1.16
9(3)	149.20	4.20	0.00	0.00	-22.10	0.00	0.00	-1.80	0.00	0.00	-42.10	0.00	0.00	26.63	1.04	-13.59	-17.03	-1.04	13.59
0(1)	153.90	3.50	0.00	0.00	-18.60	0.00	0.00	-1.60	0.00	0.00	-35.40	0.00	0.00	25.67	0.00	12.50	-17.93	0.00	-12.50
0(2)	153.90	3.50	0.00	0.00	-18.60	0.00	0.00	-1.60	0.00	0.00	-35.40	0.00	0.00	4.49	0.00	-0.72	2.41	0.00	0.72
0(3)	153.90	3.50	0.00	0.00	-18.60	0.00	0.00	-1.60	0.00	0.00	-35.40	0.00	0.00	27.83	0.00	-13.94	-20.09	0.00	13.94
1(1)	156.25	2.30	0.00	0.00	-12.40	0.00	0.00	-1.00	0.00	0.00	-23.60	0.00	0.00	18.06	0.00	8.60	-12.79	0.00	-8.60
1(2)	156.25	2.30	0.00	0.00	-12.40	0.00	0.00	-1.00	0.00	0.00	-23.60	0.00	0.00	3.62	0.00	-0.44	1.73	0.00	0.44
1(3)	156.25	2.30	0.00	0.00	-12.40	0.00	0.00	-1.00	0.00	0.00	-23.60	0.00	0.00	17.49	0.00	-9.49	-14.21	0.00	9.49
2(1)	158.60	3.40	0.00	0.00	-18.60	0.00	0.00	-1.60	0.00	0.00	-35.40	0.00	0.00	21.76	0.00	11.55	-14.09	0.00	-11.55
2(2)	158.60	3.40	0.00	0.00	-18.60	0.00	0.00	-1.60	0.00	0.00	-35.40	0.00	0.00	4.57	0.00	-0.63	2.48	0.00	0.63
2(3)	158.60	3.40	0.00	0.00	-18.60	0.00	0.00	-1.60	0.00	0.00	-35.40	0.00	0.00	23.73	0.00	-12.81	-16.87	0.00	12.81
3(1)	163.30	4.10	0.00	0.00	-22.20	0.00	0.00	-1.90	0.00	0.00	-42.20	0.00	0.00	12.61	1.04	5.55	-4.80	-1.04	-5.63
3(2)	163.30	4.10	0.00	0.00	-22.20	0.00	0.00	-1.90	0.00	0.00	-42.20	0.00	0.00	4.91	0.00	-0.98	2.82	0.00	0.98
3(3)	163.30	4.10	0.00	0.00	-22.20	0.00	0.00	-1.90	0.00	0.00	-42.20	0.00	0.00	15.38	-1.04	-6.55	-7.58	1.04	6.63
4(1)	167.00	2.30	0.00	0.00	-12.60	0.00	0.00	-1.10	0.00	0.00	-23.60	0.00	0.00	7.76	0.00	3.82	-3.67	0.00	-3.82
4(2)	167.00	2.30	0.00	0.00	-12.60	0.00	0.00	-1.10	0.00	0.00	-23.60	0.00	0.00	3.62	0.00	-0.72	1.73	0.00	0.72
4(3)	167.00	2.30	0.00	0.00	-12.60	0.00	0.00	-1.10	0.00	0.00	-23.60	0.00	0.00	9.55	0.00	-4.19	-5.46	0.00	4.19
5(1)	168.00	0.50	0.00	0.00	-2.60	0.00	0.00	-0.20	0.00	0.00	-5.00	0.00	0.00	2.35	0.00	1.04	-1.48	0.00	-0.95
5(2)	168.00	0.50	0.00	0.00	-2.60	0.00	0.00	-0.20	0.00	0.00	-5.00	0.00	0.00	0.22	0.00	-0.18	0.22	0.00	0.18
5(3)	168.00	0.50	0.00	0.00	-2.60	0.00	0.00	-0.20	0.00	0.00	-5.00	0.00	0.00	2.70	0.00	-1.14	-1.83	0.00	1.04

RESUMEN ESFUERZOS GENERALES

ARRA	X (m)	TREN B POS			TREN B NEG			TREN C POS			TREN C NEG			TREN D POS			TREN D NEG		
		M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M
)	0.00	2.01	0.00	1.11	-0.05	0.00	-0.53	2.60	0.00	0.97	-0.60	0.00	-1.26	2.21	0.00	1.19	1.70	0.00	0.07
2)	0.00	-0.51	0.00	0.54	0.17	0.00	0.28	0.64	0.00	-0.82	0.33	0.00	0.16	-0.41	0.00	0.59	0.78	0.00	0.88
3)	0.00	0.58	0.00	-0.39	-0.95	0.00	1.11	4.46	0.00	-1.74	-0.60	0.00	0.97	0.40	0.00	-0.09	-0.69	0.00	1.19
-)	1.00	6.58	0.00	4.72	-2.43	0.00	-1.57	9.03	0.00	3.01	-3.84	0.00	-5.52	7.43	0.00	4.94	5.20	0.00	0.71
2)	1.00	-1.15	0.00	2.10	1.43	0.00	1.06	7.95	0.00	-3.16	2.39	0.00	0.87	-0.48	0.00	2.24	5.56	0.00	3.40
3)	1.00	0.47	0.00	-1.29	-5.99	0.00	4.44	17.32	0.00	-6.47	-4.41	0.00	3.97	0.17	0.00	0.41	-4.91	0.00	5.25
1)	4.70	9.46	-1.05	7.60	-2.38	1.04	-3.29	16.33	-1.06	4.10	-2.04	1.03	-7.19	10.70	-1.04	7.73	9.57	1.05	-0.26
2)	4.70	-3.65	-0.01	2.92	2.29	0.00	1.42	12.02	-0.03	-4.12	3.97	0.00	0.94	-2.50	0.02	2.93	9.40	0.00	4.59
3)	4.70	0.80	1.04	-2.60	-6.88	-1.05	6.93	27.36	1.03	-9.58	-4.45	-1.06	6.40	1.63	1.05	-1.04	-4.13	-1.04	6.48
1)	9.40	16.62	0.00	14.08	-13.77	0.00	-11.23	24.61	0.00	9.58	-12.80	0.00	-11.52	19.50	0.00	14.05	-4.77	0.00	-9.26
2)	9.40	-2.88	0.00	1.92	2.03	0.00	0.93	10.76	0.00	-2.55	3.46	0.00	0.61	-1.89	0.00	1.84	8.22	0.00	2.95
3)	9.40	12.62	0.00	-10.28	-16.79	0.00	13.13	32.74	0.00	-14.78	-14.95	0.00	12.84	13.65	0.00	-10.31	-13.94	0.00	15.10
1)	11.75	14.16	0.00	9.52	-11.79	0.00	-7.61	17.59	0.00	8.36	-11.17	0.00	-7.60	14.74	0.00	9.47	-5.72	0.00	-6.13
2)	11.75	-1.15	0.00	1.35	1.43	0.00	0.85	7.95	0.00	-1.79	2.39	0.00	0.44	-0.48	0.00	1.28	5.56	0.00	2.07
3)	11.75	9.87	0.00	-6.84	-13.94	0.00	8.85	23.40	0.00	-10.00	-12.72	0.00	8.87	10.55	0.00	-6.88	-12.29	0.00	10.22
1)	14.10	20.97	0.00	15.39	-16.76	0.00	-12.14	28.27	0.00	10.21	-15.90	0.00	-12.50	21.90	0.00	15.39	-7.44	0.00	-9.85
2)	14.10	-2.68	0.00	2.19	1.95	0.00	1.08	10.46	0.00	-2.97	3.38	0.00	0.89	-1.70	0.00	2.14	7.91	0.00	3.39
3)	14.10	14.44	0.00	-11.05	-20.04	0.00	14.31	35.26	0.00	-16.23	-16.12	0.00	13.95	15.43	0.00	-11.06	-17.53	0.00	16.60
1)	18.80	18.75	1.05	12.87	-11.03	-1.04	-8.17	22.05	1.06	9.16	-10.92	-1.03	-12.77	20.09	1.04	13.10	1.71	-1.05	-4.78
2)	18.80	-3.65	0.01	3.14	2.29	0.00	1.56	12.02	0.03	-4.63	3.97	0.00	1.02	-2.50	-0.02	3.28	9.40	0.00	5.04
3)	18.80	8.50	-1.04	-7.47	-16.27	1.05	12.18	36.63	-1.03	-15.15	-13.62	1.06	11.54	9.19	-1.05	-5.58	-14.76	1.04	13.87
1)	22.50	8.10	0.00	5.76	-3.66	0.00	-2.62	9.34	0.00	4.04	-4.57	0.00	-6.56	8.97	0.00	5.99	4.09	0.00	-0.32
2)	22.50	-0.95	0.00	2.08	1.35	0.00	1.05	7.65	0.00	-3.20	2.30	0.00	0.67	-0.30	0.00	2.27	5.25	0.00	3.41
3)	22.50	1.54	0.00	-2.34	-7.25	0.00	5.48	18.57	0.00	-7.53	-5.62	0.00	4.99	1.45	0.00	-0.63	-6.73	0.00	6.30
)	23.50	3.10	0.00	2.43	-1.59	0.00	-1.21	3.69	0.00	1.60	-2.10	0.00	-2.60	3.47	0.00	2.52	1.71	0.00	-0.31
)	23.50	-1.48	0.00	0.81	0.51	0.00	0.41	2.40	0.00	-1.24	0.92	0.00	0.24	-1.20	0.00	0.89	2.27	0.00	1.33
)	23.50	0.30	0.00	-1.07	-3.16	0.00	2.29	7.55	0.00	-3.08	-2.45	0.00	2.08	0.22	0.00	-0.46	-2.91	0.00	2.68
)	24.50	11.04	0.00	6.67	-3.66	0.00	-2.92	12.88	0.00	5.01	-5.22	0.00	-8.20	12.10	0.00	7.18	5.63	0.00	-0.03
)	24.50	-1.91	0.00	2.62	1.69	0.00	1.33	9.21	0.00	-4.02	2.89	0.00	0.83	-1.09	0.00	2.85	6.74	0.00	4.29
)	24.50	3.06	0.00	-2.64	-8.32	0.00	6.59	23.97	0.00	-9.16	-6.33	0.00	5.97	2.86	0.00	-0.34	-7.54	0.00	7.49
)	29.30	28.14	-1.05	19.13	-18.45	1.04	-13.54	34.02	-1.06	14.71	-18.00	1.03	-18.83	29.72	-1.04	19.34	-3.10	1.05	-9.63
)	29.30	-2.86	-0.01	3.75	3.03	0.00	1.84	16.65	-0.03	-5.31	5.19	0.00	1.19	-1.39	0.02	3.79	11.98	0.00	5.92
)	29.30	16.43	1.04	-12.71	-24.44	-1.05	16.29	50.40	1.03	-21.69	-21.24	-1.06	17.57	17.49	1.05	-10.55	-21.71	-1.04	20.26
)	35.10	33.18	0.00	22.37	-28.33	0.00	-19.23	41.25	0.00	17.75	-27.06	0.00	-19.53	34.22	0.00	22.28	-17.56	0.00	-17.04
)	35.10	-3.70	0.00	2.28	2.29	0.00	1.07	12.13	0.00	-2.78	4.04	0.00	0.70	-2.52	0.00	2.04	9.48	0.00	3.39
)	35.10	26.26	0.00	-18.14	-31.85	0.00	21.40	50.37	0.00	-23.27	-29.81	0.00	21.09	27.81	0.00	-18.25	-27.99	0.00	23.36
)	38.00	22.67	0.00	16.47	-19.65	0.00	-14.62	28.58	0.00	13.84	-18.77	0.00	-14.78	23.24	0.00	16.40	-12.95	0.00	-13.29
)	38.00	-1.71	0.00	1.40	1.60	0.00	0.85	8.90	0.00	-1.68	2.80	0.00	0.44	-0.91	0.00	1.22	6.42	0.00	2.07
)	38.00	18.61	0.00	-13.95	-21.69	0.00	15.92	33.67	0.00	-17.09	-20.26	0.00	15.75	19.50	0.00	-14.04	-18.83	0.00	17.02
)	40.90	34.22	0.00	24.28	-28.33	0.00	-21.16	42.28	0.00	19.64	-27.06	0.00	-21.47	35.27	0.00	24.21	-17.58	0.00	-18.94
)	40.90	-3.70	0.00	2.28	2.29	0.00	1.07	12.13	0.00	-2.78	4.04	0.00	0.70	-2.52	0.00	2.04	9.48	0.00	3.39
)	40.90	27.31	0.00	-20.07	-31.85	0.00	23.30	51.43	0.00	-25.21	-29.61	0.00	22.98	28.65	0.00	-20.15	-27.99	0.00	25.29
)	46.70	30.78	1.05	21.03	-21.14	-1.04	-15.23	37.25	1.06	16.59	-21.32	-1.03	-21.13	32.42	1.04	21.26	-8.03	-1.05	-11.31
)	46.70	-2.86	0.01	3.73	3.03	0.00	1.84	16.85	0.03	-5.34	5.19	0.00	1.19	-1.39	-0.02	3.81	11.98	0.00	5.92
)	46.70	19.44	-1.04	-14.53	-27.17	1.05	20.20	52.92	-1.03	-23.52	-23.96	1.06	19.46	20.18	-1.05	-12.08	-24.19	1.04	22.19
)	51.50	11.08	0.00	7.11	-4.62	0.00	-3.16	12.85	0.00	4.65	-6.66	0.00	-7.84	12.17	0.00	7.40	4.95	0.00	-0.25
)	51.50	-1.71	0.00	2.62	1.60	0.00	1.33	8.90	0.00	-4.02	2.80	0.00	0.83	-0.91	0.00	2.85	6.42	0.00	4.29
)	51.50	2.88	0.00	-2.74	-9.39	0.00	6.89	23.95	0.00	-9.27	-7.33	0.00	6.06	2.38	0.00	-0.72	-8.65	0.00	7.86
)	52.50	2.98	0.00	2.43	-1.71	0.00	-1.21	3.57	0.00	1.60	-2.21	0.00	-2.60	3.35	0.00	2.52	1.59	0.00	-0.31
)	52.50	-1.28	0.00	0.81	0.43	0.00	0.41	2.09	0.00	-1.24	0.82	0.00	0.24	-1.02	0.00	0.89	1.96	0.00	1.33
)	52.50	0.19	0.00	-1.07	-3.27	0.00	2.29	7.43	0.00	-3.08	-2.56	0.00	2.08	0.10	0.00	-0.46	-3.03	0.00	2.68
)	53.50	11.08	0.00	6.67	-4.62	0.00	-3.16	12.86	0.00	5.01	-6.66	0.00	-7.84	12.17	0.00	7.18	4.95	0.00	-0.25
)	53.50	-1.71	0.00	2.62	1.60	0.00	1.33	8.90	0.00	-4.02	2.80	0.00	0.83	-0.91	0.00	2.85	6.42	0.00	4.29
)	53.50	2.88	0.00	-2.74	-9.39	0.00	6.89	23.95	0.00	-9.27	-7.33	0.00	6.06	2.38	0.00	-0.72	-8.65	0.00	7.49
)	58.30	30.78	-1.05	21.03	-21.14	1.04	-15.23	37.25	-1.06	16.59	-21.32	1.03	-21.13	32.42	-1.04	21.26	-6.03	1.05	-11.31
)	58.30	-2.66	-0.01	3.72	2.95	0.00	1.84	16.55	-0.03	-5.36	5.10	0.00	1.19	-1.21	0.02	3.82	11.67	0.00	5.92
)	58.30	19.44	1.04	-14.53	-27.17	1.05	20.20	52.92	1.03	-23.52	-23.96	-1.06	19.46	20.18	1.05	-12.08	-24.19	-1.04	22.19
)	64.10	34.22	0.00	24.27	-29.47	0.00	-21.16	42.28	0.00	19.64	-28.21	0.00	-21.47	35.27	0.00	24.21	-18.93	0.00	-18.94
)	64.10	-3.70	0.00	2.25	2.29	0.00	1.07	12.13	0.00	-2.83	4.04	0.00	0.70	-2.52	0.00	2.07	9.48	0.00	3.39
)	64.10	27.51	0.00	-20.07	-32.88	0.00	23.30	51.13	0.00	-26.21	-30.63	0.00	22.98	28.83	0.00	-20.15	-29.04	0.00	25.29
)	67.00	23.80	0.00	16.47	-20.70	0.00	-14.62	29.29	0.00	13.84	-19.82	0.00	-14.78	24.48	0.00	16.40	-13.99	0.00	13.29
)	67.00	-1.71	0.00	1.40	1.60	0.00	0.85	8.90	0.00	-1.68	2.80	0.00	0.44	-0.91	0.00	1.22	6.42	0.00	2.07
)	67.00	19.66	0.00	-13.95	-22.61	0.00	15.92	34.73	0.00	-17.09	-21.38	0.00	15.75	20.54	0.00	-14.04	-20.19	0.00	17.02

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ARRA	X (m)	TREN B POS			TREN B NEG			TREN C POS			TREN C NEG			TREN D POS			TREN D NEG		
		M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)
8(1)	69.5	36.39	0.00	24.27	-29.44	0.00	-21.16	43.76	0.00	19.64	-28.25	0.00	-21.47	37.45	0.00	24.21	-18.91	0.00	-18.94
8(2)	69.90	-1.38	0.00	2.26	2.62	0.00	1.07	14.45	0.00	-2.81	4.27	0.00	0.70	-0.20	0.00	2.05	9.71	0.00	3.39
8(3)	69.90	29.42	0.00	-20.07	-33.00	0.00	23.30	53.05	0.00	-25.21	-30.76	0.00	22.96	30.69	0.00	-20.15	-29.46	0.00	25.29
9(1)	75.70	32.69	1.05	21.62	-23.54	-1.04	-16.90	39.27	1.06	18.32	-24.91	-1.03	-22.48	34.59	1.04	21.94	-8.12	-1.05	-11.68
9(2)	75.70	-2.66	0.01	4.00	2.95	0.00	1.98	16.55	0.03	-5.76	5.10	0.00	1.27	-1.21	-0.02	4.11	11.67	0.00	6.36
9(3)	75.70	21.08	-1.04	-15.21	-30.15	1.05	21.07	55.23	-1.03	-24.86	-26.84	1.06	20.23	21.27	-1.05	-12.45	-27.23	1.04	22.56
0(1)	80.50	13.78	0.00	7.90	-5.43	0.00	-3.97	16.14	0.00	6.04	-8.06	0.00	-9.26	14.93	0.00	8.23	4.13	0.00	-1.07
0(2)	80.50	-1.71	0.00	2.61	1.80	0.00	1.33	8.90	0.00	-4.05	2.80	0.00	0.83	-0.91	0.00	2.87	6.42	0.00	4.29
0(3)	80.50	5.76	0.00	-3.69	-10.33	0.00	7.63	26.83	0.00	-10.22	-8.25	0.00	6.99	4.94	0.00	-1.38	-9.33	0.00	8.54
1(1)	81.50	4.13	0.00	2.43	-1.59	0.00	-1.21	4.72	0.00	1.80	-2.10	0.00	-2.60	4.52	0.00	2.52	1.71	0.00	-0.31
1(2)	81.50	-1.26	0.00	0.81	0.43	0.00	0.41	2.09	0.00	-1.24	0.82	0.00	0.24	-1.02	0.00	0.89	1.96	0.00	1.33
1(3)	81.50	1.35	0.00	-1.07	-3.16	0.00	2.29	8.61	0.00	-3.08	-2.45	0.00	2.08	1.25	0.00	-0.46	-2.91	0.00	2.88
2(1)	82.50	12.94	0.00	8.18	-5.12	0.00	-3.83	15.30	0.00	5.65	-7.74	0.00	-9.18	14.14	0.00	8.52	5.28	0.00	-0.63
2(2)	82.50	-1.97	0.00	2.89	1.89	0.00	1.47	9.32	0.00	-4.44	2.96	0.00	0.91	-1.11	0.00	3.16	6.82	0.00	4.73
2(3)	82.50	4.15	0.00	-3.41	-10.36	0.00	7.77	27.07	0.00	-10.61	-8.16	0.00	7.08	3.40	0.00	-1.09	-9.36	0.00	8.98
3(1)	87.80	34.63	-1.05	23.17	-24.13	1.04	-17.16	42.39	-1.06	18.68	-24.67	1.03	-23.11	36.40	-1.04	23.40	-7.62	1.05	-12.97
3(2)	87.80	-3.37	-0.01	4.03	3.21	0.00	1.98	17.09	-0.03	-5.70	5.52	0.00	1.27	-1.80	0.02	4.08	12.77	0.00	8.36
3(3)	87.80	22.38	1.04	-16.33	-30.79	-1.05	22.33	59.03	1.03	-25.97	-27.30	-1.06	21.55	23.05	1.05	-13.90	-27.18	-1.04	24.33
4(1)	94.10	39.95	0.00	27.15	-33.26	0.00	-24.41	49.40	0.00	23.21	-31.80	0.00	-24.64	40.98	0.00	27.03	-22.50	0.00	-22.54
4(2)	94.10	-1.69	0.00	2.03	2.69	0.00	0.93	15.29	0.00	-2.33	4.60	0.00	0.62	-0.60	0.00	1.72	10.50	0.00	2.94
4(3)	94.10	33.43	0.00	-23.46	-36.62	0.00	26.32	57.67	0.00	-27.90	-34.33	0.00	26.08	34.93	0.00	-23.59	-32.07	0.00	27.96
5(1)	97.25	27.12	0.00	18.58	-24.60	0.00	-16.78	34.51	0.00	15.96	-23.53	0.00	-16.93	27.80	0.00	18.47	-17.67	0.00	-15.71
5(2)	97.25	-1.97	0.00	1.23	1.89	0.00	0.57	9.32	0.00	-1.32	2.96	0.00	0.36	-1.11	0.00	1.01	6.82	0.00	1.75
5(3)	97.25	23.37	0.00	-16.22	-26.67	0.00	18.02	39.07	0.00	-18.84	-25.09	0.00	17.87	24.43	0.00	-16.33	-23.02	0.00	19.09
6(1)	100.40	40.70	0.00	27.43	-33.28	0.00	-24.27	50.15	0.00	22.82	-31.82	0.00	-24.55	41.74	0.00	27.32	-22.30	0.00	-22.10
6(2)	100.40	-1.69	0.00	2.30	2.69	0.00	1.07	15.29	0.00	-2.72	4.60	0.00	0.70	-0.60	0.00	2.01	10.50	0.00	3.38
6(3)	100.40	33.99	0.00	-23.18	-36.73	0.00	26.46	58.74	0.00	-28.29	-34.44	0.00	26.16	35.49	0.00	-23.31	-32.18	0.00	28.40
7(1)	106.70	35.79	1.05	24.20	-26.35	-1.04	-17.97	42.94	1.06	19.71	-26.91	-1.03	-24.54	37.56	1.04	24.45	-9.81	-1.05	-13.78
7(2)	106.70	-3.37	0.01	4.01	3.21	0.00	1.98	17.69	0.03	-5.73	5.52	0.00	1.27	-1.80	-0.02	4.09	12.77	0.00	6.36
7(3)	106.70	23.32	-1.04	-17.26	-33.08	1.05	23.37	59.97	-1.03	-26.92	-29.59	1.06	22.57	23.97	-1.05	-14.56	-29.78	1.04	25.36
8(1)	112.00	14.85	0.00	8.98	-7.11	0.00	-4.64	17.20	0.00	7.04	-9.74	0.00	-10.60	16.11	0.00	9.35	3.62	0.00	-1.44
8(2)	112.00	-1.97	0.00	2.87	1.69	0.00	1.47	9.32	0.00	-4.47	2.96	0.00	0.91	-1.11	0.00	3.17	6.82	0.00	4.73
8(3)	112.00	5.81	0.00	-4.36	-12.48	0.00	8.70	29.42	0.00	-11.56	-10.18	0.00	7.99	5.06	0.00	-1.75	-11.51	0.00	9.66
9(1)	113.00	5.00	0.00	2.43	-1.59	0.00	-1.21	5.58	0.00	1.80	-2.10	0.00	-2.60	5.40	0.00	2.52	1.71	0.00	-0.31
9(2)	113.00	-1.28	0.00	0.81	0.43	0.00	0.41	2.09	0.00	-1.24	0.82	0.00	0.24	-1.02	0.00	0.89	1.96	0.00	1.33
9(3)	113.00	2.23	0.00	-1.07	-3.16	0.00	2.29	9.49	0.00	-3.08	-2.45	0.00	2.08	2.12	0.00	-0.46	-2.91	0.00	2.68
0(1)	114.00	15.09	0.00	8.98	-7.11	0.00	-4.64	16.83	0.00	7.04	-9.74	0.00	-10.60	16.33	0.00	9.35	3.62	0.00	-1.44
0(2)	114.00	-1.97	0.00	2.87	1.69	0.00	1.47	9.32	0.00	-4.47	2.96	0.00	0.91	-1.11	0.00	3.17	6.82	0.00	4.73
0(3)	114.00	5.81	0.00	-4.36	-12.58	0.00	8.70	29.42	0.00	-11.56	-10.29	0.00	7.99	5.06	0.00	-1.75	-11.69	0.00	9.66
1(1)	119.30	35.79	-1.05	24.20	-26.35	1.04	-17.97	42.94	-1.06	19.71	-26.91	1.03	-24.54	37.56	-1.04	24.45	-9.81	1.05	-13.78
1(2)	119.30	-3.37	-0.01	4.01	3.21	0.00	1.98	17.69	-0.03	-5.73	5.52	0.00	1.27	-1.80	0.02	4.09	12.77	0.00	6.36
1(3)	119.30	23.32	1.04	-17.26	-33.08	-1.05	23.37	59.97	1.03	-26.92	-29.59	-1.06	22.57	23.97	1.05	-14.56	-29.78	-1.04	25.36
2(1)	125.60	40.70	0.00	27.43	-33.28	0.00	-24.27	50.15	0.00	22.82	-31.82	0.00	-24.55	41.74	0.00	27.32	-22.30	0.00	-22.10
2(2)	125.60	-1.69	0.00	2.30	2.69	0.00	1.07	15.29	0.00	-2.72	4.60	0.00	0.70	-0.60	0.00	2.01	10.50	0.00	3.38
2(3)	125.60	33.99	0.00	-23.18	-36.73	0.00	26.46	58.74	0.00	-28.29	-34.44	0.00	26.16	35.49	0.00	-23.31	-32.18	0.00	28.40
3(1)	128.75	26.07	0.00	17.54	-23.56	0.00	-15.64	33.45	0.00	14.93	-22.60	0.00	-15.76	26.76	0.00	17.42	-16.62	0.00	-14.36
3(2)	128.75	-2.17	0.00	1.23	1.77	0.00	0.57	9.62	0.00	-1.32	3.05	0.00	0.36	-1.30	0.00	1.01	7.13	0.00	1.75
3(3)	128.75	22.34	0.00	-14.97	-25.52	0.00	16.98	38.04	0.00	-18.06	-24.03	0.00	16.84	23.38	0.00	-15.11	-21.99	0.00	18.04
4(1)	131.90	37.75	0.00	25.25	-33.28	0.00	-22.48	47.20	0.00	21.33	-31.82	0.00	-22.70	38.78	0.00	25.10	-22.31	0.00	-20.64
4(2)	131.90	-1.69	0.00	2.04	2.69	0.00	0.93	15.29	0.00	-2.30	4.60	0.00	0.62	-0.60	0.00	1.70	10.50	0.00	2.94
4(3)	131.90	31.02	0.00	-21.53	-36.73	0.00	24.42	58.77	0.00	-25.98	-34.44	0.00	24.19	32.54	0.00	-21.70	-32.18	0.00	26.03
1(1)	136.20	29.86	1.05	21.45	-20.91	-1.04	-15.49	37.10	1.06	16.46	-20.26	-1.03	-20.83	31.54	1.04	21.67	-4.46	-1.05	-11.28
2)	136.20	-3.37	0.01	4.04	3.21	0.00	1.98	17.69	0.03	-5.67	5.52	0.00	1.27	-1.80	-0.02	4.06	12.77	0.00	6.35
3)	136.20	17.64	-1.04	-14.52	-27.16	1.05	20.51	54.12	-1.03	-24.17	-23.76	1.06	19.73	18.67	-1.05	-12.36	-23.77	1.04	22.73
1)	143.50	14.16	0.00	7.84	-5.25	0.00	-3.30	15.91	0.00	6.01	-7.26	0.00	-9.76	15.35	0.00	8.30	5.17	0.00	0.09
2)	143.50	-2.17	0.00	3.09	1.77	0.00	1.55	9.62	0.00	-4.75	3.05	0.00	1.00	-1.30	0.00	3.34	7.13	0.00	5.04
3)	143.50	5.24	0.00	-3.03	-10.37	0.00	7.66	28.16	0.00	-10.71	-8.16	0.00	6.96	4.76	0.00	-0.22	-9.64	0.00	8.60
1)	144.50	5.00	0.00	2.19	-1.59	0.00	-0.68	5.58	0.00	1.97	-2.10	0.00	-3.18	5.40	0.00	2.30	1.71	0.00	0.41
2)	144.50	-1.48	0.00	0.81	0.51	0.00	0.41	2.40	0.00	-1.24	0.92	0.00	0.24	-1.20	0.00	0.89	2.27	0.00	1.33
3)	144.50	2.23	0.00	-0.68	-3.18	0.00	2.19	9.49	0.00	-3.18	-2.45	0.00	1.97	2.12	0.00	0.41	-2.91	0.00	2.30
1)	145.50	9.17	0.00	6.55	-4.66	0.00	-3.43	10.33	0.00	5.43	-5.67	0.00	-8.00	10.05	0.00	6.82	3.08	0.00	-1.14
2)	145.50	-0.95	0.00	2.07	1.35	0.00	1.05	7.65	0.00	-3.23	2.30	0.00	0.66	-0.30	0.00	2.28	5.25	0.00	3.41
	145.50	2.58	0.00	-3.30	-8.30	0.00	6.41	19.62	0.00	-8.48	-8.66	0.00	5.91	2.45	0.00	-1.29	-7.83	0.00	6.98

RESUMEN ESFUERZOS GENERALES

X (m)	TREN B POS			TREN B NEG			TREN C POS			TREN C NEG			TREN D POS			TREN D NEG		
	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)
149.20	21.88	-1.05	14.57	-13.14	1.04	-9.48	24.96	-1.06	11.38	-13.04	1.03	-16.36	23.07	-1.04	14.87	-0.36	1.05	-5.80
149.20	-3.65	-0.01	3.41	2.29	0.00	1.70	12.02	-0.03	-6.05	3.97	0.00	1.10	-2.50	0.02	3.58	9.40	0.00	6.48
149.20	11.48	1.04	-8.92	-16.34	-1.05	14.01	39.63	1.03	-17.27	-15.66	-1.06	13.29	12.13	1.05	-6.42	-16.86	-1.04	15.49
153.90	22.87	0.00	15.39	-17.83	0.00	-12.14	28.15	0.00	10.21	-18.96	0.00	-12.50	23.83	0.00	15.39	-8.47	0.00	-9.85
153.90	-2.68	0.00	2.17	1.95	0.00	1.06	10.46	0.00	-3.00	3.36	0.00	0.68	-1.70	0.00	2.16	7.91	0.00	3.40
153.90	16.37	0.00	-11.06	-21.06	0.00	14.30	37.20	0.00	-16.24	-19.15	0.00	13.95	17.33	0.00	-11.06	-16.59	0.00	16.60
156.25	14.27	0.00	10.38	-12.73	0.00	-8.36	17.70	0.00	7.22	-12.11	0.00	-8.57	14.85	0.00	10.35	-6.64	0.00	-7.00
156.25	-1.15	0.00	1.35	1.43	0.00	0.65	7.95	0.00	-1.79	2.39	0.00	0.44	-0.48	0.00	1.28	5.56	0.00	2.07
156.25	9.99	0.00	-7.71	-14.86	0.00	9.71	23.58	0.00	-10.88	-13.83	0.00	9.52	10.66	0.00	-7.75	-13.22	0.00	11.10
156.60	16.62	0.00	14.08	-14.62	0.00	-11.23	24.60	0.00	9.58	-13.87	0.00	-11.52	19.51	0.00	14.05	-5.81	0.00	-9.26
156.60	-2.88	0.00	1.92	2.03	0.00	0.93	10.78	0.00	-2.55	3.46	0.00	0.61	-1.89	0.00	1.84	8.22	0.00	2.95
156.60	12.62	0.00	-10.26	-17.83	0.00	13.13	32.74	0.00	-14.78	-15.98	0.00	12.84	13.65	0.00	-10.31	-14.99	0.00	15.10
163.30	9.46	1.05	7.84	-4.31	-1.04	-3.29	15.33	1.06	3.73	-3.98	-1.03	-7.19	10.70	1.04	7.96	7.67	-1.05	-0.26
163.30	-3.65	0.01	2.92	2.29	0.00	1.42	12.02	0.03	-4.12	3.97	0.00	0.94	-2.50	-0.02	2.93	9.40	0.00	4.59
163.30	0.80	-1.04	-2.60	-8.78	1.05	7.03	27.36	-1.03	-9.58	-8.34	1.06	6.52	1.63	-1.05	-1.04	-6.06	1.04	8.86
167.00	6.70	0.00	4.72	-2.55	0.00	-1.57	8.55	0.00	3.01	-3.98	0.00	-5.52	7.54	0.00	4.94	5.09	0.00	0.71
167.00	-1.16	0.00	2.10	1.43	0.00	1.05	7.95	0.00	-3.15	2.39	0.00	0.87	-0.48	0.00	2.24	5.56	0.00	3.40
167.00	0.35	0.00	-1.29	-6.20	0.00	4.44	17.21	0.00	-8.47	-4.64	0.00	3.97	0.05	0.00	0.41	-5.40	0.00	5.25
168.00	2.01	0.00	1.11	-1.10	0.00	-0.53	2.60	0.00	0.97	-1.66	0.00	-1.26	2.21	0.00	1.19	0.66	0.00	0.07
168.00	-0.51	0.00	0.54	0.17	0.00	0.26	0.84	0.00	-0.82	0.33	0.00	0.16	-0.41	0.00	0.59	0.78	0.00	0.08
168.00	0.58	0.00	-0.39	-1.99	0.00	1.11	4.46	0.00	-1.74	-1.63	0.00	0.97	0.40	0.00	-0.09	-1.74	0.00	1.19

ARRA	X (m)	TREN E POS			TREN E NEG			TREN F POS			TREN F NEG			TREN G POS			TREN G NEG		
		M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)
(1)	0.00	2.80	0.00	1.04	1.15	0.00	-0.66	1.85	0.00	1.04	-2.17	0.00	-1.27	-0.48	0.00	-0.17	0.77	0.00	-0.41
(2)	0.00	0.94	0.00	-0.77	0.94	0.00	0.77	-0.56	0.00	0.46	-0.56	0.00	-0.46	-0.39	0.00	-0.84	0.62	0.00	0.56
(3)	0.00	4.26	0.00	-1.43	-0.33	0.00	1.04	0.96	0.00	-0.81	-1.29	0.00	1.04	1.02	0.00	-0.50	0.60	0.00	-0.17
(1)	1.00	9.69	0.00	3.23	3.79	0.00	-3.23	5.85	0.00	4.46	-11.64	0.00	-4.46	-1.67	0.00	-0.18	1.32	0.00	-1.04
(2)	1.00	8.61	0.00	-3.02	6.52	0.00	3.02	-1.45	0.00	1.81	-3.54	0.00	-1.81	-1.54	0.00	-2.38	4.30	0.00	2.28
(3)	1.00	17.02	0.00	-4.77	-3.33	0.00	4.77	1.59	0.00	-3.54	-7.37	0.00	3.54	2.36	0.00	-1.22	2.36	0.00	0.02
(1)	4.70	16.67	-1.04	4.23	9.92	1.04	-4.16	8.25	-1.04	7.21	-16.98	1.04	-7.24	5.81	-1.33	5.90	11.81	-0.28	3.16
(2)	4.70	13.17	0.00	-4.11	11.08	0.00	4.11	-4.18	0.00	2.46	-6.27	0.00	-2.46	-3.49	-1.46	4.17	7.32	-0.15	3.82
(3)	4.70	26.19	1.04	-8.02	-1.70	-1.04	7.95	1.29	1.04	-4.94	-10.02	-1.04	4.97	-4.41	-0.28	2.70	-3.55	-1.33	6.34
00(1)	9.40	25.49	0.00	9.55	-3.81	0.00	-9.55	17.65	0.00	13.76	-24.89	0.00	-13.76	16.38	0.00	11.06	8.08	0.00	-0.50
00(2)	9.40	11.76	0.00	-2.63	9.87	0.00	2.63	-3.33	0.00	1.56	-5.42	0.00	-1.56	-2.90	0.00	7.60	6.40	0.00	2.95
00(3)	9.40	33.77	0.00	-14.81	-12.09	0.00	14.81	12.69	0.00	-10.60	-19.93	0.00	10.60	-2.52	0.00	-1.12	-13.07	0.00	11.68
01(1)	11.75	18.16	0.00	6.32	-5.10	0.00	-6.32	13.51	0.00	9.29	-19.30	0.00	-9.29	10.92	0.00	8.28	4.09	0.00	0.54
01(2)	11.75	8.61	0.00	-1.86	6.52	0.00	1.86	-1.45	0.00	1.12	-3.54	0.00	-1.12	-1.54	0.00	5.61	4.30	0.00	2.10
01(3)	11.75	24.14	0.00	-10.04	-11.07	0.00	10.04	9.93	0.00	-7.06	-15.72	0.00	7.06	-0.70	0.00	0.10	-10.25	0.00	8.72
02(1)	14.10	27.19	0.00	10.21	-6.56	0.00	-10.21	19.97	0.00	15.03	-26.25	0.00	-15.03	15.06	0.00	11.04	4.60	0.00	-1.47
02(2)	14.10	11.44	0.00	-3.02	9.35	0.00	3.02	-3.14	0.00	1.81	-5.23	0.00	-1.81	-2.72	0.00	6.40	6.15	0.00	3.16
02(3)	14.10	36.25	0.00	-16.24	-15.81	0.00	16.24	14.55	0.00	-11.42	-22.83	0.00	11.42	-0.12	0.00	-2.19	-12.72	0.00	11.75
03(1)	18.80	23.39	1.04	9.36	1.82	-1.04	-9.36	17.43	1.04	12.46	-26.41	-1.04	-12.46	6.27	1.33	5.09	2.96	0.28	-2.40
03(2)	18.80	13.17	0.00	-4.49	11.08	0.00	4.49	-4.18	0.00	2.69	-6.27	0.00	-2.69	-3.49	1.46	-1.05	7.32	0.15	3.74
03(3)	18.80	37.32	-1.04	-13.24	-12.11	1.04	13.24	9.09	-1.04	-10.16	-18.06	1.04	10.16	3.77	0.28	-2.66	-4.13	1.33	5.54
04(1)	22.50	10.21	0.00	4.26	3.16	0.00	-4.26	7.33	0.00	5.51	-12.94	0.00	-5.51	-1.51	0.00	-0.44	-0.09	0.00	-2.36
04(2)	22.50	8.29	0.00	-3.02	6.20	0.00	3.02	-1.26	0.00	1.81	-3.34	0.00	-1.81	-1.37	0.00	-4.94	4.06	0.00	2.14
04(3)	22.50	18.49	0.00	-5.82	-5.10	0.00	5.82	2.37	0.00	-4.58	-7.98	0.00	4.58	3.88	0.00	-2.55	2.03	0.00	-0.26
05(1)	23.50	4.06	0.00	1.70	1.20	0.00	-1.70	2.76	0.00	2.32	-5.54	0.00	-2.32	-0.59	0.00	-0.19	-0.09	0.00	-1.18
05(2)	23.50	2.66	0.00	-1.16	2.66	0.00	1.16	-1.60	0.00	0.69	-1.60	0.00	-0.69	-1.16	0.00	-2.14	1.79	0.00	0.77
05(3)	23.50	7.46	0.00	-2.47	-2.20	0.00	2.47	0.72	0.00	-1.86	-3.50	0.00	1.86	1.20	0.00	-1.27	0.90	0.00	-0.10
06(1)	24.50	13.94	0.00	5.32	4.27	0.00	-5.32	10.11	0.00	6.55	-15.27	0.00	-6.55	-0.94	0.00	-0.61	0.51	0.00	-2.57
06(2)	24.50	10.02	0.00	-3.79	7.94	0.00	3.79	-2.29	0.00	2.27	-4.36	0.00	-2.27	-2.13	0.00	-5.88	5.23	0.00	2.70
06(3)	24.50	23.76	0.00	-8.86	-5.55	0.00	6.86	4.22	0.00	-5.63	-9.38	0.00	5.63	4.83	0.00	-2.75	2.64	0.00	-0.43
07(1)	29.30	35.60	-1.04	14.91	-2.66	1.04	-14.81	26.53	-1.04	18.61	-37.06	1.04	-18.61	14.86	-1.33	11.07	4.47	-0.28	-1.74
07(2)	29.30	18.32	0.00	-5.26	14.14	0.00	5.26	-3.55	0.00	3.15	-7.73	0.00	-3.15	-3.51	-1.46	4.60	9.28	-0.15	4.74
07(3)	29.30	51.46	1.04	-19.54	-18.51	-1.04	19.54	17.03	1.04	-15.84	-27.58	-1.04	15.84	2.93	-0.28	-2.29	-10.11	-1.33	11.62
08(1)	35.10	42.29	0.00	17.68	-16.31	0.00	-17.34	31.99	0.00	21.97	-41.70	0.00	-22.17	27.29	0.00	19.30	5.98	0.00	-0.17
08(2)	35.10	13.32	0.00	-3.02	11.23	0.00	3.02	-4.27	0.00	1.81	-6.36	0.00	-1.81	-3.51	0.00	15.55	7.38	0.00	3.75
08(3)	35.10	51.72	0.00	-23.38	-25.75	0.00	23.05	26.33	0.00	-18.55	-36.05	0.00	18.74	-0.98	0.00	-0.88	-23.40	0.00	19.94
09(1)	38.00	29.24	0.00	13.77	-12.07	0.00	-13.45	21.81	0.00	16.23	-28.01	0.00	-16.43	18.52	0.00	13.83	3.77	0.00	-0.87
09(2)	38.00	9.70	0.00	-1.86	7.62	0.00	1.86	-2.10	0.00	1.12	-4.19	0.00	-1.12	-1.96	0.00	10.74	4.98	0.00	2.39
09(3)	38.00	34.57	0.00	-17.17	-17.40	0.00	16.85	18.62	0.00	-14.20	-24.82	0.00	14.39	-0.15	0.00	-1.31	-16.15	0.00	14.19
10(1)	40.90	43.33	0.00	19.58	-16.31	0.00	-19.25	33.03	0.00	23.89	-41.70	0.00	-24.06	27.16	0.00	19.05	5.98	0.00	-2.34
10(2)	40.90	13.32	0.00	-3.02	11.23	0.00	3.02	-4.27	0.00	1.81	-6.36	0.00	-1.81	-3.51	0.00	15.55	7.38	0.00	3.75
10(3)	40.90	52.77	0.00	-26.29	-25.75	0.00	24.97	27.38	0.00	-20.46	-38.05	0.00	20.66	0.22	0.00	-3.05	-23.40	0.00	19.69
11(1)	46.70	38.88	1.04	16.83	-6.20	-1.04	-17.21	29.20	1.04	20.52	-39.50	-1.04	-20.29	14.28	1.33	10.68	2.38	0.28	-3.84
11(2)	46.70	18.32	0.00	-5.26	14.14	0.00	5.26	-3.55	0.00	3.15	-7.73	0.00	-3.15	-3.51	1.46	3.13	9.28	0.15	4.59
11(3)	46.70	53.65	-1.04	-21.07	-20.97	1.04	21.46	20.38	-1.04	-17.99	-30.66	1.04	17.76	6.09	0.28	-4.30	-10.61	1.33	11.22
12(1)	51.50	13.94	0.00	4.93	2.91	0.00	-4.93	10.11	0.00	6.76	-16.12	0.00	-6.76	-0.88	0.00	-0.41	-0.36	0.00	-2.78
12(2)	51.50	9.70	0.00	-3.79	7.62	0.00	3.79	-2.10	0.00	2.27	-4.19	0.00	-2.27	-1.96	0.00	-5.88	4.98	0.00	2.70
12(3)	51.50	23.44	0.00	-7.25	-6.59	0.00	7.25	4.42	0.00	-5.40	-10.43	0.00	5.40	4.44	0.00	-3.05	2.72	0.00	-0.13
13(1)	52.50	3.95	0.00	1.70	1.08	0.00	-1.70	2.64	0.00	2.32	-5.66	0.00	-2.32	-0.73	0.00	-0.19	-0.22	0.00	-1.16
13(2)	52.50	2.35	0.00	-1.16	2.35	0.00	1.16	-1.41	0.00	0.69	-1.41	0.00	-0.69	-0.98	0.00	-2.14	1.54	0.00	0.77
13(3)	52.50	7.35	0.00	-2.47	-2.32	0.00	2.47	0.61	0.00	-1.86	-3.62	0.00	1.86	1.21	0.00	-1.27	0.92	0.00	-0.10
14(1)	53.50	13.94	0.00	5.32	2.91	0.00	-4.93	10.11	0.00	6.55	-16.12	0.00	-6.78	-0.88	0.00	-0.61	-0.36	0.00	-2.78
14(2)	53.50	9.70	0.00	-3.79	7.62	0.00	3.79	-2.10	0.00	2.27	-4.19	0.00	-2.27	-1.96	0.00	-5.88	4.98	0.00	2.70
14(3)	53.50	23.44	0.00	-7.25	-6.59	0.00	6.86	4.42	0.00	-5.40	-10.43	0.00	5.63	4.44	0.00	-3.05	2.72	0.00	-0.43
15(1)	58.30	38.88	-1.04	16.83	-6.20	1.04	-17.21	29.20	-1.04	20.52	-39.50	1.04	-20.29	14.28	-1.33	10.68	2.38	-0.28	-3.84
15(2)	58.30	17.99	0.00	-5.26	13.82	0.00	5.26	-3.36	0.00	3.15	-7.53	0.00	-3.15	-3.33	-1.46	2.03	9.03	-0.15	4.59
15(3)	58.30	53.65	1.04	-21.07	-20.97	-1.04	21.45	20.30	1.04	-17.99	-30.66	-1.04	17.76	6.09	-0.28	-4.30	-10.61	-1.33	11.22
16(1)	64.10	43.33	0.00	19.58	-17.67	0.00	-19.25	33.03	0.00	23.89	-42.55	0.00	-24.06	27.01	0.00	18.90	4.41	0.00	-2.46
16(2)	64.10	13.32	0.00	-3.02	11.23	0.00	3.02	-4.27	0.00	1.81	-6.36	0.00	-1.81	-3.51	0.00	12.99	7.38	0.00	3.60
16(3)	64.10	52.45	0.00	-25.29	-26.79	0.00	24.97	27.67	0.00	-20.46	-37.09	0.00	20.66	0.54	0.00	-3.20	-23.12	0.00	19.54
17(1)	67.00	29.96	0.00	13.77	-13.11	0.00	-13.45	23.05	0.00	16.23	-29.06	0.00	-16.43	18.56	0.00	13.83	2.59	0.00	-0.87
17(2)	67.00	9.70	0.00	-1.86	7.62	0.00	1.86	-2.10	0.00	1.12	-4.19	0.00	-1.12	-1.96	0.00	10.74	4.98	0.00	2.39
17(3)	67.00	35.61	0.00	-17.17	-16.76	0.00	16.85	19.66	0.00	-14.20	-25.67	0.00	14.39	1.03	0.00	-1.31	-16.26	0.00	14.19

RESUMEN ESFUERZOS GENERALES

ARRA	X (m)	TREN E POS			TREN E NEG			TREN F POS			TREN F NEG			TREN G POS			TREN G NEG		
		M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)
1(1)	69.90	44.82	0.00	19.58	-17.72	0.00	-19.25	35.20	0.00	23.89	-42.53	0.00	-24.06	26.99	0.00	18.90	4.43	0.00	-2.46
1(2)	69.90	15.64	0.00	-3.02	11.46	0.00	3.02	-1.95	0.00	1.81	-6.12	0.00	-1.81	-2.35	0.00	14.09	7.50	0.00	3.60
1(3)	69.90	54.32	0.00	-25.29	-27.22	0.00	24.97	29.51	0.00	-20.46	-36.64	0.00	20.66	2.67	0.00	-3.20	-23.45	0.00	19.54
2(1)	75.70	40.97	1.04	18.64	-9.48	-1.04	-18.26	31.29	1.04	21.11	-42.27	-1.04	-21.34	13.77	1.33	10.04	-0.52	0.28	-4.61
2(2)	75.70	17.99	0.00	-5.65	13.62	0.00	5.65	-3.36	0.00	3.38	-7.53	0.00	-3.36	-3.33	1.46	1.93	9.03	0.15	4.60
2(3)	75.70	55.42	-1.04	-22.11	-23.93	1.04	21.72	22.64	-1.04	-19.03	-33.61	1.04	18.26	7.93	0.28	-5.07	-8.98	1.33	10.40
3(1)	80.50	17.28	0.00	6.36	1.46	0.00	-6.36	12.63	0.00	7.60	-16.93	0.00	-7.60	-1.62	0.00	-0.90	-1.46	0.00	-3.90
3(2)	80.50	9.70	0.00	-3.79	7.62	0.00	3.79	-2.10	0.00	2.27	-4.19	0.00	-2.27	-1.96	0.00	-7.34	4.98	0.00	2.55
3(3)	80.50	26.01	0.00	-7.90	-7.26	0.00	7.90	7.60	0.00	-6.67	-11.70	0.00	6.67	7.64	0.00	-4.06	3.30	0.00	-0.71
4(1)	81.50	5.11	0.00	1.70	1.20	0.00	-1.70	3.80	0.00	2.32	-5.54	0.00	-2.32	-0.86	0.00	-0.19	-0.24	0.00	-1.18
4(2)	81.50	2.35	0.00	-1.16	2.35	0.00	1.16	-1.41	0.00	0.69	-1.41	0.00	-0.69	-0.98	0.00	-2.14	1.54	0.00	0.77
4(3)	81.50	8.51	0.00	-2.47	-2.20	0.00	2.47	1.77	0.00	-1.86	-3.50	0.00	1.86	2.53	0.00	-1.27	1.05	0.00	-0.10
5(1)	82.50	16.50	0.00	5.98	2.66	0.00	-5.98	11.91	0.00	7.83	-17.84	0.00	-7.83	-1.59	0.00	-0.63	-0.72	0.00	-3.54
5(2)	82.50	10.17	0.00	-4.17	8.09	0.00	4.17	-2.38	0.00	2.50	-4.47	0.00	-2.50	-2.16	0.00	-7.06	5.29	0.00	2.91
5(3)	82.50	26.32	0.00	-8.29	-7.17	0.00	8.29	6.03	0.00	-6.44	-11.75	0.00	6.44	6.17	0.00	-3.82	3.40	0.00	-0.36
6(1)	87.80	44.16	-1.04	18.92	-8.16	1.04	-18.92	32.90	-1.04	22.61	-44.26	1.04	-22.61	17.66	-1.33	13.24	3.78	-0.28	-3.07
6(2)	87.80	19.26	0.00	-5.65	15.08	0.00	5.65	-4.11	0.00	3.38	-8.29	0.00	-3.38	-3.90	-1.46	4.86	9.90	-0.15	5.09
6(3)	87.80	59.70	1.04	-23.54	-23.70	-1.04	23.54	23.60	1.04	-19.84	-34.96	-1.04	19.84	5.39	-0.28	-3.62	-13.46	-1.33	13.79
7(1)	94.10	50.43	0.00	23.09	-21.05	0.00	-22.77	38.70	0.00	26.79	-46.75	0.00	-26.98	34.34	0.00	22.62	7.40	0.00	-1.99
7(2)	94.10	16.58	0.00	-2.63	12.41	0.00	2.63	-2.51	0.00	1.56	-6.69	0.00	-1.56	-2.74	0.00	18.22	8.11	0.00	3.69
7(3)	94.10	59.17	0.00	-28.04	-29.78	0.00	27.72	33.47	0.00	-23.83	-41.52	0.00	24.02	-1.17	0.00	-2.61	-29.07	0.00	23.17
8(1)	97.25	35.18	0.00	15.66	-16.60	0.00	-15.66	26.32	0.00	18.32	-33.37	0.00	18.32	24.24	0.00	16.48	5.18	0.00	-0.55
8(2)	97.25	10.17	0.00	-1.54	8.09	0.00	1.54	-2.38	0.00	0.92	-4.47	0.00	-0.92	-2.16	0.00	13.49	5.29	0.00	2.44
8(3)	97.25	40.12	0.00	-16.94	-21.54	0.00	16.94	23.36	0.00	-16.48	-30.41	0.00	16.48	-1.41	0.00	-0.92	-21.66	0.00	16.65
9(1)	100.40	51.19	0.00	22.71	-20.84	0.00	-22.39	39.45	0.00	27.02	-47.05	0.00	-27.21	34.09	0.00	22.89	7.52	0.00	-1.63
9(2)	100.40	16.58	0.00	-3.02	12.41	0.00	3.02	-2.51	0.00	1.81	-6.69	0.00	-1.81	-2.74	0.00	18.48	8.11	0.00	4.04
9(3)	100.40	60.24	0.00	-28.42	-29.90	0.00	28.10	34.03	0.00	-23.60	-41.63	0.00	23.79	-0.34	0.00	-2.35	-29.05	0.00	23.52
10(1)	106.70	44.70	1.04	19.96	-10.36	-1.04	-20.35	34.06	1.04	23.66	-46.47	-1.04	-23.43	17.45	1.33	12.96	1.14	0.28	-4.19
10(2)	106.70	19.26	0.00	-5.65	15.08	0.00	5.65	-4.11	0.00	3.38	-8.29	0.00	-3.38	-3.90	1.46	3.39	9.90	0.15	4.95
10(3)	106.70	60.63	-1.04	-24.20	-26.29	1.04	24.58	24.53	-1.04	-21.12	-36.93	1.04	20.89	6.73	0.28	-4.65	-13.33	1.33	13.50
11(1)	112.00	18.45	0.00	7.41	1.00	0.00	-7.41	13.80	0.00	8.64	-19.98	0.00	-8.64	-1.95	0.00	-1.12	-2.90	0.00	-4.66
11(2)	112.00	10.17	0.00	-4.17	8.09	0.00	4.17	-2.38	0.00	2.50	-4.47	0.00	-2.50	-2.16	0.00	-8.55	5.29	0.00	2.76
11(3)	112.00	28.66	0.00	-8.95	-9.21	0.00	8.95	7.69	0.00	-7.72	-13.87	0.00	7.72	8.26	0.00	-4.85	3.80	0.00	-0.94
12(1)	113.00	5.98	0.00	1.70	1.20	0.00	-1.70	4.67	0.00	2.32	-5.54	0.00	-2.32	-0.99	0.00	-0.19	-0.24	0.00	-1.18
12(2)	113.00	2.35	0.00	-1.16	2.35	0.00	1.16	-1.41	0.00	0.69	-1.41	0.00	-0.69	-0.98	0.00	-2.14	1.54	0.00	0.77
12(3)	113.00	9.36	0.00	-2.47	-2.20	0.00	2.47	2.64	0.00	-1.86	-3.50	0.00	1.86	3.51	0.00	-1.27	1.05	0.00	-0.10
13(1)	114.00	18.07	0.00	7.41	1.00	0.00	-7.41	14.03	0.00	8.64	-19.98	0.00	-8.64	-1.74	0.00	-1.12	-2.90	0.00	-4.66
13(2)	114.00	10.17	0.00	-4.17	8.09	0.00	4.17	-2.38	0.00	2.50	-4.47	0.00	-2.50	-2.16	0.00	-8.55	5.29	0.00	2.76
13(3)	114.00	28.66	0.00	-8.95	-9.60	0.00	8.95	7.69	0.00	-7.72	-13.63	0.00	7.72	8.25	0.00	-4.85	3.50	0.00	-0.94
14(1)	119.30	44.70	-1.04	19.96	-10.36	1.04	-20.35	34.06	-1.04	23.66	-46.47	1.04	-23.43	17.45	-1.33	12.96	1.14	-0.28	-4.19
14(2)	119.30	19.26	0.00	-5.65	15.08	0.00	5.65	-4.11	0.00	3.38	-8.29	0.00	-3.38	-3.90	-1.46	3.39	9.90	-0.15	4.95
14(3)	119.30	60.63	1.04	-24.20	-26.29	-1.04	24.58	24.53	1.04	-21.12	-36.93	-1.04	20.89	6.73	0.28	-4.65	-13.33	-1.33	13.50
15(1)	125.60	51.19	0.00	22.71	-20.84	0.00	-22.39	39.45	0.00	27.02	-47.05	0.00	-27.21	34.09	0.00	22.89	7.52	0.00	-1.63
15(2)	125.60	16.58	0.00	-3.02	12.41	0.00	3.02	-2.51	0.00	1.81	-6.69	0.00	-1.81	-2.74	0.00	18.48	8.11	0.00	4.04
15(3)	125.60	60.24	0.00	-28.42	-29.90	0.00	28.10	34.03	0.00	-23.60	-41.63	0.00	23.79	-0.34	0.00	-2.35	-29.05	0.00	23.52
16(1)	128.75	34.14	0.00	14.82	-15.56	0.00	-14.49	25.27	0.00	17.26	-32.32	0.00	17.47	23.06	0.00	16.62	5.02	0.00	0.88
16(2)	128.75	10.50	0.00	-1.54	8.41	0.00	1.54	-2.58	0.00	0.92	-4.86	0.00	-0.92	-2.33	0.00	13.49	5.53	0.00	2.44
16(3)	128.75	39.08	0.00	-16.22	-20.50	0.00	17.90	22.31	0.00	-15.24	-29.38	0.00	15.43	-1.27	0.00	0.44	-20.48	0.00	16.89
17(1)	131.90	48.23	0.00	21.16	-20.84	0.00	-20.86	36.49	0.00	24.87	-47.05	0.00	-25.07	33.31	0.00	23.02	7.86	0.00	0.32
17(2)	131.90	16.58	0.00	-2.63	12.41	0.00	2.63	-2.51	0.00	1.58	-6.69	0.00	-1.58	-2.74	0.00	19.68	8.11	0.00	3.83
17(3)	131.90	57.28	0.00	-26.12	-29.90	0.00	25.80	31.07	0.00	-21.91	-41.63	0.00	22.11	-2.52	0.00	-0.30	-29.20	0.00	23.56
18(1)	138.20	36.79	1.04	16.86	-3.61	-1.04	-16.62	28.15	1.04	20.89	-40.94	-1.04	-20.93	17.14	1.33	12.49	6.32	0.28	-2.28
18(2)	138.20	19.26	0.00	-5.65	15.08	0.00	5.65	-4.11	0.00	3.38	-8.29	0.00	-3.38	-3.90	1.46	6.32	9.90	0.15	5.24
18(3)	138.20	55.35	-1.04	-22.01	-20.37	1.04	21.95	18.22	-1.04	-17.70	-31.01	1.04	17.74	1.70	0.28	-2.92	-13.02	1.33	13.11
19(1)	143.50	17.10	0.00	6.36	3.16	0.00	-6.36	13.13	0.00	7.80	-17.75	0.00	-7.60	-1.36	0.00	-0.84	-0.79	0.00	-2.92
19(2)	143.50	10.50	0.00	-4.49	8.41	0.00	4.49	-2.58	0.00	2.69	-4.66	0.00	-2.69	-2.33	0.00	-6.91	5.53	0.00	3.15
19(3)	143.50	27.69	0.00	-7.90	-7.44	0.00	7.90	6.78	0.00	-6.67	-11.40	0.00	6.67	7.43	0.00	-3.10	3.09	0.00	-0.66
20(1)	144.50	5.98	0.00	2.09	1.20	0.00	-2.09	4.67	0.00	2.09	-5.54	0.00	-2.09	-0.99	0.00	-0.40	-0.24	0.00	-0.55
20(2)	144.50	2.66	0.00	-1.16	2.66	0.00	1.16	-1.60	0.00	0.69	-1.60	0.00	-0.69	-1.16	0.00	-2.14	1.79	0.00	0.77
20(3)	144.50	9.36	0.00	-2.09	-2.20	0.00	2.09	2.64	0.00	-2.09	-3.60	0.00	2.09	3.61	0.00	-1.77	1.05	0.00	-0.40
21(1)	145.50	11.21	0.00	5.70	2.09	0.00	-5.70	8.40	0.00	6.32	-13.96	0.00	-6.32	-1.77	0.00	-0.93	-1.40	0.00	-3.48
21(2)	145.50	8.29	0.00	-3.02	6.20	0.00	3.02	-1.26	0.00	1.81	-3.34	0.00	-1.81	-1.37	0.00	-6.41	4.06	0.00	1.99
21(3)	145.50	19.49	0.00	-8.48	-8.19	0.00	8.48	3.44	0.00	-5.88	-9.00	0.00	5.88	5.18	0.00	-3.58	2.28	0.00	-0.84

BARRA	X (m)	TREN E POS M	TREN E POS (T)	TREN E POS (Q)	TREN E NEG M	TREN E NEG (T)	TREN E NEG (Q)	TREN F POS M	TREN F POS (T)	TREN F POS (Q)	TREN F N. M	TREN F N. (T)	TREN F N. (Q)	TREN G POS M	TREN G POS (T)	TREN G POS (Q)	TREN G M	TREN G (T)	TREN G (Q)
139(1)	149.-	26.34	-1.04	11.68	-0.27	1.04	-11.68	20.39	-1.04	14.15	-28.50	1.04	-14.15	5.59	-1.33	4.54	0.31	-0.28	-3.95
139(2)	149.20	13.17	0.00	-4.66	11.06	0.00	4.66	-4.16	0.00	2.92	-6.27	0.00	-2.92	-3.49	-1.46	-2.26	7.32	-0.15	3.95
139(3)	149.20	40.26	1.04	-14.76	-14.20	-1.04	14.76	12.05	1.04	-12.30	-20.15	-1.04	12.30	7.41	-0.28	-4.31	-3.57	-1.33	4.91
140(1)	153.90	29.11	0.00	10.21	-7.60	0.00	-10.21	21.69	0.00	15.03	-29.30	0.00	-15.03	14.66	0.00	10.89	3.27	0.00	-1.62
140(2)	153.90	11.44	0.00	-3.02	9.35	0.00	3.02	-3.14	0.00	1.81	-5.23	0.00	-1.81	-2.72	0.00	4.94	6.15	0.00	3.02
140(3)	153.90	38.16	0.00	-16.24	-16.65	0.00	16.24	16.47	0.00	-11.42	-23.87	0.00	11.42	2.19	0.00	-2.33	-12.44	0.00	11.60
141(1)	156.25	18.28	0.00	7.19	-6.02	0.00	-7.19	13.63	0.00	10.16	-20.23	0.00	-10.16	10.90	0.00	8.16	2.90	0.00	-0.45
141(2)	156.25	8.61	0.00	-1.86	6.52	0.00	1.86	-1.45	0.00	1.12	-3.64	0.00	-1.12	-1.54	0.00	5.61	4.30	0.00	2.10
141(3)	156.25	24.25	0.00	-10.91	-12.00	0.00	10.91	10.05	0.00	-7.93	-16.65	0.00	7.93	-0.57	0.00	-0.89	-9.98	0.00	8.60
142(1)	158.60	25.49	0.00	9.55	-4.85	0.00	-9.55	17.85	0.00	13.76	-25.93	0.00	-13.76	15.22	0.00	11.06	6.75	0.00	-0.50
142(2)	158.60	11.76	0.00	-2.63	9.67	0.00	2.63	-3.33	0.00	1.58	-5.42	0.00	-1.58	-2.90	0.00	7.60	6.40	0.00	2.95
142(3)	158.60	33.77	0.00	-14.81	-13.14	0.00	14.81	12.69	0.00	-10.60	-20.97	0.00	10.60	-2.37	0.00	-1.12	-12.79	0.00	11.68
143(1)	163.30	16.67	1.04	3.84	8.01	-1.04	-4.16	8.25	1.04	7.44	-16.69	-1.04	-7.24	5.66	1.33	6.11	9.50	0.28	3.16
143(2)	163.30	13.17	0.00	-4.11	11.08	0.00	4.11	-4.16	0.00	2.46	-6.27	0.00	-2.46	-3.49	1.46	4.17	7.32	0.15	3.82
143(3)	163.30	28.19	-1.04	-8.02	-3.82	1.04	8.34	1.29	-1.04	-4.94	-11.93	1.04	4.74	-4.26	0.28	2.70	-3.16	1.33	6.64
144(1)	167.00	9.39	0.00	3.23	3.68	0.00	-3.23	5.97	0.00	4.46	-11.75	0.00	-4.46	-1.60	0.00	-0.16	1.19	0.00	-1.04
144(2)	167.00	8.61	0.00	-3.02	6.52	0.00	3.02	-1.45	0.00	1.81	-3.64	0.00	-1.81	-1.54	0.00	-2.38	4.30	0.00	2.28
144(3)	167.00	16.90	0.00	-4.77	-3.83	0.00	4.77	1.47	0.00	-3.64	-7.26	0.00	3.64	2.38	0.00	-1.22	2.08	0.00	0.02
145(1)	168.00	2.80	0.00	1.04	0.10	0.00	-0.66	1.85	0.00	1.04	-3.22	0.00	-1.27	-0.48	0.00	-0.17	-0.42	0.00	-0.41
145(2)	168.00	0.94	0.00	-0.77	0.94	0.00	0.77	-0.66	0.00	0.46	-0.56	0.00	-0.46	-0.39	0.00	-0.94	0.82	0.00	0.56
145(3)	168.00	4.28	0.00	-1.43	-1.37	0.00	1.04	0.98	0.00	-0.81	-2.33	0.00	1.04	1.02	0.00	-0.50	0.73	0.00	-0.17

RESUMEN ESFUERZOS GENERALES

ARRA	X (m)	TREN H POS M	TREN H POS (T)	TREN H POS (Q)	TREN H NEG M	TREN H NEG (T)	TREN H NEG (Q)	TREN I POS M	TREN I POS (T)	TREN I POS (Q)	TREN I NEG M	TREN I NEG (T)	TREN I NEG (Q)
(1)	0.00	-0.27	0.00	-0.10	2.61	0.00	0.19	-0.64	0.00	-0.24	-1.36	0.00	-1.16
(2)	0.00	-0.29	0.00	-0.89	1.23	0.00	1.17	-0.44	0.00	-1.02	-0.12	0.00	-0.16
(3)	0.00	0.85	0.00	-0.20	0.86	0.00	-0.10	1.40	0.00	-0.93	0.26	0.00	-0.24
(1)	1.00	-0.81	0.00	0.06	8.96	0.00	1.24	-2.38	0.00	-0.42	-7.88	0.00	-3.94
(2)	1.00	-0.87	0.00	-2.26	8.43	0.00	4.63	-1.83	0.00	-2.89	-0.66	0.00	-0.58
(3)	1.00	2.09	0.00	0.47	3.44	0.00	0.63	3.51	0.00	-3.47	0.98	0.00	-0.88
(1)	4.70	7.05	-1.31	8.03	23.77	-0.27	6.16	4.81	-1.32	5.50	-2.78	-0.28	-0.80
(2)	4.70	-2.31	-1.43	4.17	14.43	-0.14	6.99	-3.99	-1.45	3.71	-1.23	-0.15	-0.06
(3)	4.70	-3.53	-0.27	4.26	-0.80	-1.31	7.89	-3.87	-0.28	0.36	-6.68	-1.32	4.38
(1)	9.40	16.26	0.00	11.02	17.06	0.00	1.47	14.41	0.00	10.73	-3.04	0.00	-3.03
(2)	9.40	-1.88	0.00	7.51	12.59	0.00	4.98	-3.33	0.00	7.25	-1.05	0.00	0.45
(3)	9.40	-1.45	0.00	-1.16	-10.21	0.00	13.65	-2.40	0.00	-1.45	-16.20	0.00	9.16
(1)	11.75	11.50	0.00	8.23	10.17	0.00	1.91	10.27	0.00	8.05	-3.41	0.00	-1.25
(2)	11.75	-0.87	0.00	5.54	8.43	0.00	3.53	-1.83	0.00	5.37	-0.66	0.00	0.34
(3)	11.75	0.00	0.00	0.05	-8.60	0.00	10.09	-0.81	0.00	-0.13	-12.03	0.00	6.93
(1)	14.10	16.00	0.00	11.02	13.94	0.00	0.82	14.07	0.00	10.67	-8.87	0.00	-4.36
(2)	14.10	-1.72	0.00	8.36	12.12	0.00	5.49	-3.16	0.00	8.01	-1.02	0.00	0.29
(3)	14.10	0.90	0.00	-2.20	-10.20	0.00	14.04	0.02	0.00	-2.66	-15.50	0.00	8.86
(1)	18.80	7.61	1.31	5.31	15.70	0.27	0.97	4.96	1.32	4.68	-12.41	0.28	-6.71
(2)	18.80	-2.31	1.43	-0.93	14.43	0.14	7.22	-3.99	1.45	-1.52	-1.23	0.15	-0.51
(3)	18.80	4.51	0.27	-0.95	-2.62	1.31	7.24	4.41	0.28	-5.65	-5.92	1.32	3.52
(1)	22.50	-0.64	0.00	-0.21	7.05	0.00	-0.07	-2.28	0.00	-0.69	-9.38	0.00	-5.26
(2)	22.50	-0.71	0.00	-4.77	7.96	0.00	4.49	-1.87	0.00	-5.22	-0.83	0.00	-0.72
(3)	22.50	3.63	0.00	-0.84	2.55	0.00	0.66	4.74	0.00	-4.79	1.30	0.00	-1.16
(1)	23.50	-0.22	0.00	-0.10	3.20	0.00	-0.28	-0.93	0.00	-0.30	-4.04	0.00	-2.30
(2)	23.50	-0.87	0.00	-2.06	3.55	0.00	1.68	-1.27	0.00	-2.26	-0.33	0.00	-0.34
(3)	23.50	1.13	0.00	-0.87	1.15	0.00	0.29	1.83	0.00	-2.07	0.56	0.00	-0.53
(1)	24.50	0.12	0.00	-0.31	10.00	0.00	0.30	-1.87	0.00	-0.93	-10.90	0.00	-6.22
(2)	24.50	-1.30	0.00	-5.66	10.26	0.00	5.66	-2.50	0.00	-6.25	-0.84	0.00	-0.90
(3)	24.50	4.66	0.00	-0.47	3.43	0.00	0.46	6.03	0.00	-5.75	1.58	0.00	-1.39
(1)	29.30	16.46	-1.31	11.27	19.81	-0.27	2.16	13.26	-1.32	10.55	-14.16	-0.28	-8.82
(2)	29.30	-2.01	-1.43	4.82	18.23	-0.14	8.81	-4.16	-1.45	3.99	-1.48	-0.15	-0.26
(3)	29.30	4.05	-0.27	-0.15	-7.37	-1.31	13.59	3.60	-0.28	-5.44	-13.25	-1.32	9.17
(1)	35.10	28.34	0.00	19.20	16.74	0.00	2.02	26.11	0.00	16.89	-7.38	0.00	-3.11
(2)	35.10	-2.30	0.00	15.31	14.67	0.00	8.07	-4.05	0.00	15.08	-1.26	0.00	0.87
(3)	35.10	0.43	0.00	-1.00	-19.54	0.00	21.90	-0.85	0.00	-1.30	-27.60	0.00	17.26
(1)	38.00	19.21	0.00	13.75	10.46	0.00	0.46	17.77	0.00	13.59	-4.69	0.00	-2.68
(2)	38.00	-1.14	0.00	10.55	9.80	0.00	3.81	-2.33	0.00	10.45	-0.81	0.00	0.83
(3)	38.00	0.77	0.00	-1.40	-13.29	0.00	15.29	-0.11	0.00	-1.56	-19.28	0.00	12.67
(1)	40.90	28.22	0.00	18.98	16.74	0.00	-0.12	25.98	0.00	18.85	-7.38	0.00	-5.26
(2)	40.90	-2.30	0.00	15.31	14.67	0.00	8.07	-4.05	0.00	15.08	-1.26	0.00	0.87
(3)	40.90	1.60	0.00	-3.14	-19.54	0.00	21.67	0.33	0.00	-3.46	-27.60	0.00	17.04
(1)	46.70	15.93	1.31	10.91	17.49	0.27	0.07	12.71	1.32	10.17	-15.98	0.28	-8.92
(2)	46.70	-2.01	1.43	3.19	18.23	0.14	8.67	-4.16	1.45	2.54	-1.48	0.15	-0.40
(3)	46.70	6.88	0.27	-1.86	-7.62	1.31	13.22	7.06	0.28	-7.77	-14.09	1.32	8.78
(1)	51.50	0.21	0.00	-0.12	9.20	0.00	0.12	-1.86	0.00	-0.74	-11.86	0.00	-6.41
(2)	51.50	-1.14	0.00	-5.66	9.80	0.00	5.66	-2.33	0.00	-6.25	-0.81	0.00	-0.90
(3)	51.50	3.98	0.00	-1.04	3.47	0.00	1.03	6.01	0.00	-5.72	1.69	0.00	-1.43
(1)	52.50	-0.35	0.00	-0.10	3.08	0.00	-0.28	-1.06	0.00	-0.30	-4.17	0.00	-2.30
(2)	52.50	-0.72	0.00	-2.06	3.07	0.00	1.68	-1.11	0.00	-2.26	-0.30	0.00	-0.34
(3)	52.50	1.14	0.00	-0.87	1.16	0.00	0.29	1.86	0.00	-2.07	0.57	0.00	-0.53
(1)	53.50	0.21	0.00	-0.31	9.20	0.00	0.12	-1.85	0.00	-0.93	-11.86	0.00	-6.41
(2)	53.50	-1.14	0.00	-5.66	9.80	0.00	5.66	-2.33	0.00	-6.25	-0.81	0.00	-0.90
(3)	53.50	3.98	0.00	-1.04	3.47	0.00	0.46	6.01	0.00	-5.72	1.69	0.00	-1.39
(1)	58.30	15.93	-1.31	10.91	17.49	-0.27	0.07	12.71	-1.32	10.17	-15.98	-0.28	-8.92
(2)	58.30	-1.85	-1.43	2.12	17.76	-0.14	8.67	-4.00	-1.45	1.45	-1.45	-0.15	-0.40
(3)	58.30	6.66	-0.27	-1.86	-7.62	-1.31	13.22	7.06	-0.28	-7.77	-14.09	-1.32	8.78
(1)	64.10	28.08	0.00	18.83	14.95	0.00	-0.27	25.83	0.00	18.51	-8.67	0.00	-5.41
(2)	64.10	-2.30	0.00	12.80	14.57	0.00	5.92	-4.05	0.00	12.54	-1.26	0.00	0.73
(3)	64.10	1.90	0.00	-3.28	-19.27	0.00	21.53	0.64	0.00	-3.60	-27.32	0.00	16.89
(1)	67.00	19.24	0.00	13.78	9.31	0.00	0.46	17.81	0.00	13.69	-5.76	0.00	-2.68
(2)	67.00	-1.14	0.00	10.55	9.80	0.00	3.61	-2.33	0.00	10.45	-0.81	0.00	0.83
(3)	67.00	1.94	0.00	-1.40	-13.64	0.00	15.29	1.07	0.00	-1.56	-19.12	0.00	12.67

RESUMEN ESFUERZOS GENERALES

BARRA	X (m)	TREN H POS			TREN H NEG			TREN I POS			TREN I NEG		
		M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)
118(1)	69.90	28.06	0.00	18.83	14.97	0.00	-0.27	25.81	0.00	18.51	-8.65	0.00	-5.41
118(2)	69.90	-1.14	0.00	13.87	14.69	0.00	5.92	-2.69	0.00	13.63	-1.15	0.00	0.73
118(3)	69.90	3.96	0.00	-3.28	-19.90	0.00	21.53	2.79	0.00	-3.60	-27.28	0.00	18.89
119(1)	75.70	15.48	1.31	10.35	14.89	0.27	-0.40	12.17	1.32	9.62	-19.25	0.28	-10.06
119(2)	75.70	-1.85	1.43	2.03	17.76	0.14	9.16	-4.00	1.45	1.30	-1.45	0.15	-0.56
119(3)	75.70	8.16	0.27	-2.33	-7.06	1.31	11.89	9.54	0.28	-8.91	-13.44	1.32	8.59
120(1)	80.50	-0.47	0.00	-0.57	8.08	0.00	-1.01	-2.56	0.00	-1.21	-12.99	0.00	-7.54
120(2)	80.50	-1.14	0.00	-7.09	9.80	0.00	5.61	-2.33	0.00	-7.70	-0.81	0.00	-1.05
120(3)	80.50	6.85	0.00	-1.78	4.30	0.00	0.20	9.52	0.00	-7.07	1.93	0.00	-1.67
121(1)	81.50	-0.49	0.00	-0.10	3.06	0.00	-0.28	-1.21	0.00	-0.30	-4.18	0.00	-2.30
121(2)	81.50	-0.72	0.00	-2.06	3.07	0.00	1.68	-1.11	0.00	-2.26	-0.30	0.00	-0.34
121(3)	81.50	2.44	0.00	-0.67	1.29	0.00	0.29	2.95	0.00	-2.07	0.70	0.00	-0.53
122(1)	82.50	-0.38	0.00	-0.30	9.66	0.00	-0.35	-2.61	0.00	-0.99	-13.24	0.00	-7.55
122(2)	82.50	-1.28	0.00	-6.82	10.41	0.00	8.17	-2.65	0.00	-7.46	-0.87	0.00	-1.06
122(3)	82.50	5.46	0.00	-1.51	4.41	0.00	0.85	8.09	0.00	-6.66	2.04	0.00	-1.69
123(1)	87.80	19.44	-1.31	13.47	20.29	-0.27	1.11	15.94	-1.32	12.68	-16.35	-0.28	-8.53
123(2)	87.80	-2.29	-1.43	4.89	19.46	-0.14	9.47	-4.61	-1.45	4.20	-1.60	-0.15	-0.27
123(3)	87.80	6.12	-0.27	-1.20	-9.85	-1.31	15.78	8.67	-0.28	-7.15	-17.62	-1.32	11.29
124(1)	94.10	35.38	0.00	22.49	18.15	0.00	-0.12	33.10	0.00	22.25	-6.09	0.00	-4.56
124(2)	94.10	-1.42	0.00	17.90	15.92	0.00	5.70	-3.33	0.00	17.76	-1.27	0.00	1.16
124(3)	94.10	0.37	0.00	-2.76	-24.52	0.00	24.81	-1.09	0.00	-2.99	-33.97	0.00	20.87
125(1)	97.25	24.93	0.00	16.38	12.09	0.00	0.52	23.45	0.00	16.23	-3.60	0.00	-2.10
125(2)	97.25	-1.28	0.00	13.27	10.41	0.00	3.82	-2.55	0.00	13.18	-0.87	0.00	0.95
125(3)	97.25	-0.33	0.00	-1.02	-18.11	0.00	17.92	-1.40	0.00	-1.17	-25.49	0.00	15.30
126(1)	100.40	35.15	0.00	22.76	18.50	0.00	0.53	32.86	0.00	22.47	-6.25	0.00	-4.58
126(2)	100.40	-1.42	0.00	18.17	15.92	0.00	6.35	-3.33	0.00	17.98	-1.27	0.00	1.16
126(3)	100.40	1.20	0.00	-2.49	-24.50	0.00	25.46	-0.26	0.00	-2.77	-33.95	0.00	20.85
127(1)	106.70	19.23	1.31	13.20	17.68	0.27	-0.01	15.73	1.32	12.40	-18.97	0.28	-9.66
127(2)	106.70	-2.29	1.43	3.46	19.46	0.14	9.33	-4.61	1.45	2.75	-1.60	0.15	-0.42
127(3)	106.70	7.45	0.27	-1.94	-10.02	1.31	15.51	8.00	0.28	-8.50	-17.17	1.32	11.02
128(1)	112.00	-0.69	0.00	-0.76	7.83	0.00	-1.48	-3.00	0.00	-1.46	-15.77	0.00	-8.67
128(2)	112.00	-1.28	0.00	-8.26	10.41	0.00	6.02	-2.55	0.00	-8.93	-0.87	0.00	-1.21
128(3)	112.00	7.53	0.00	-2.25	4.77	0.00	0.01	10.17	0.00	-8.21	2.42	0.00	-1.93
129(1)	113.00	-0.59	0.00	-0.10	3.06	0.00	-0.28	-1.31	0.00	-0.30	-4.19	0.00	-2.30
129(2)	113.00	-0.72	0.00	-2.06	3.07	0.00	1.68	-1.11	0.00	-2.26	-0.30	0.00	-0.34
129(3)	113.00	3.41	0.00	-0.67	1.29	0.00	0.29	3.93	0.00	-2.07	0.70	0.00	-0.53
130(1)	114.00	-0.60	0.00	-0.76	7.83	0.00	-1.48	-2.80	0.00	-1.48	-15.77	0.00	-8.67
130(2)	114.00	-1.28	0.00	-8.26	10.41	0.00	6.02	-2.55	0.00	-8.93	-0.87	0.00	-1.21
130(3)	114.00	7.53	0.00	-2.25	4.20	0.00	0.01	10.17	0.00	-8.21	2.45	0.00	-1.93
131(1)	119.30	19.23	-1.31	13.20	17.68	-0.27	-0.01	15.73	-1.32	12.40	-18.97	-0.28	-9.66
131(2)	119.30	-2.29	-1.43	3.46	19.46	-0.14	9.33	-4.61	-1.45	2.75	-1.60	-0.15	-0.42
131(3)	119.30	7.45	-0.27	-1.94	-10.02	-1.31	15.51	8.00	-0.28	-8.50	-17.17	-1.32	11.02
132(1)	125.60	35.15	0.00	22.76	18.50	0.00	0.53	32.86	0.00	22.47	-6.25	0.00	-4.58
132(2)	125.60	-1.42	0.00	18.17	15.92	0.00	6.35	-3.33	0.00	17.98	-1.27	0.00	1.16
132(3)	125.60	1.20	0.00	-2.49	-24.50	0.00	25.46	-0.26	0.00	-2.77	-33.95	0.00	20.85
133(1)	128.75	23.76	0.00	16.50	11.97	0.00	2.16	22.27	0.00	16.36	-3.73	0.00	-0.95
133(2)	128.75	-1.44	0.00	13.27	10.89	0.00	3.82	-2.72	0.00	13.18	-0.90	0.00	0.95
133(3)	128.75	-0.21	0.00	0.30	-16.94	0.00	18.04	-1.27	0.00	0.17	-24.32	0.00	15.43
134(1)	131.90	34.35	0.00	22.86	18.64	0.00	2.16	32.07	0.00	22.64	-6.11	0.00	-2.27
134(2)	131.90	-1.42	0.00	19.34	15.92	0.00	5.64	-3.33	0.00	19.21	-1.27	0.00	1.32
134(3)	131.90	-0.96	0.00	-0.47	-24.65	0.00	25.17	-2.43	0.00	-0.69	-34.10	0.00	21.25
135(1)	138.20	18.84	1.31	12.70	22.77	0.27	1.92	15.44	1.32	11.92	-13.71	0.28	-7.74
135(2)	138.20	-2.29	1.43	6.33	19.46	0.14	9.61	-4.61	1.45	5.65	-1.60	0.15	-0.13
135(3)	138.20	3.00	0.27	-0.78	-9.63	1.31	15.33	2.35	0.28	-8.12	-16.88	1.32	10.34
136(1)	143.50	-0.17	0.00	-0.49	9.62	0.00	0.46	-2.39	0.00	-1.18	-13.30	0.00	-7.22
136(2)	143.50	-1.44	0.00	-6.87	10.69	0.00	8.64	-2.72	0.00	-7.32	-0.90	0.00	-1.09
136(3)	143.50	6.99	0.00	-0.31	3.62	0.00	0.28	9.02	0.00	-6.76	2.06	0.00	-1.65
137(1)	144.50	-0.59	0.00	-0.26	3.06	0.00	0.53	-1.31	0.00	-0.50	-4.19	0.00	-1.96
137(2)	144.50	-0.87	0.00	-2.06	3.55	0.00	1.68	-1.27	0.00	-2.26	-0.33	0.00	-0.34
137(3)	144.50	3.41	0.00	0.53	1.29	0.00	-0.28	3.93	0.00	-1.96	0.70	0.00	-0.50
138(1)	145.50	-0.69	0.00	-0.66	6.36	0.00	-1.19	-2.53	0.00	-1.18	-10.67	0.00	-6.38
138(2)	145.50	-0.71	0.00	-6.20	7.96	0.00	4.35	-1.67	0.00	-6.67	-0.83	0.00	-0.87
138(3)	145.50	5.07	0.00	-1.58	2.75	0.00	-0.26	6.07	0.00	-6.15	1.58	0.00	-1.39

RESUMEN ESFUERZOS GENERALES

ARRA	X (m)	TREN H POS			TREN H NEG			TREN I POS			TREN I NEG		
		M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)	M	(T)	(Q)
9(1)	149.20	6.97	-1.31	4.64	13.08	-0.27	-0.28	4.30	-1.32	4.11	-15.05	-0.28	-8.63
9(2)	149.20	-2.31	-1.43	-2.10	14.43	-0.14	7.73	-3.99	-1.45	-2.75	-1.23	-0.15	-0.67
9(3)	149.20	8.11	-0.27	-1.62	-2.08	-1.31	8.38	8.02	-0.28	-7.71	-5.37	-1.32	3.19
0(1)	153.90	15.63	0.00	10.68	12.63	0.00	0.67	13.69	0.00	10.52	-8.19	0.00	-4.51
0(2)	153.90	-1.72	0.00	4.91	12.12	0.00	5.35	-3.16	0.00	4.56	-1.02	0.00	0.15
0(3)	153.90	3.19	0.00	-2.35	-9.94	0.00	13.90	2.32	0.00	-2.70	-15.23	0.00	8.72
(1)	156.25	11.49	0.00	8.12	8.96	0.00	0.94	10.26	0.00	7.94	-4.60	0.00	-2.23
(2)	156.25	-0.87	0.00	5.54	8.43	0.00	3.53	-1.83	0.00	5.37	-0.66	0.00	0.34
(3)	156.25	0.13	0.00	-0.92	-8.34	0.00	9.99	-0.48	0.00	-1.11	-11.77	0.00	6.82
(1)	158.60	16.12	0.00	11.02	15.77	0.00	1.47	14.28	0.00	10.73	-4.36	0.00	-3.03
(2)	158.60	-1.88	0.00	7.51	12.69	0.00	4.96	-3.33	0.00	7.25	-1.05	0.00	0.45
(3)	158.60	-1.31	0.00	-1.16	-9.94	0.00	13.65	-2.26	0.00	-1.45	-15.02	0.00	9.15
(1)	163.30	6.91	1.31	6.21	21.49	0.27	6.18	4.46	1.32	5.69	-5.08	0.28	-0.80
(2)	163.30	-2.31	1.43	4.17	14.43	0.14	6.99	-3.99	1.45	3.71	-1.23	0.15	-0.06
(3)	163.30	-3.39	0.27	4.26	-0.43	1.31	8.46	-3.72	0.28	0.36	-8.30	1.32	4.35
1)	167.00	-0.75	0.00	0.06	8.83	0.00	1.24	-2.33	0.00	-0.42	-8.01	0.00	-3.94
2)	167.00	-0.87	0.00	-2.26	8.43	0.00	4.63	-1.83	0.00	-2.69	-0.66	0.00	-0.58
3)	167.00	2.11	0.00	0.47	2.89	0.00	0.83	3.52	0.00	-3.47	1.03	0.00	-0.88
1)	168.00	-0.27	0.00	-0.10	1.34	0.00	0.19	-0.64	0.00	-0.24	-2.53	0.00	-1.16
2)	168.00	-0.29	0.00	-0.89	1.23	0.00	1.17	-0.44	0.00	-1.02	-0.12	0.00	-0.16
3)	168.00	0.85	0.00	-0.20	0.99	0.00	-0.10	1.40	0.00	-0.93	0.39	0.00	-0.24

Subanejo 14

PROYECTO DE PRUEBA DE CARGA DEL VIADUCTO DE BORGES BLANQUES

ANEJO DE CÁLCULO DE LA PRUEBA DE CARGA

CLIENTE: U.T.E. BORGES BLANQUES

PRUEBA DE CARGA DEL VIADUCTO BORGES-BLANQUES

1.- DESCRIPCIÓN DEL TABLERO

El puente está constituido por 6 vanos de luces 23,5 m el primer y último vano, 29 m el segundo y tercer vano, 31,5 m el resto y eje longitudinal recto, formado por dos vigas cajón.

Se trata de una estructura prefabricada a base de vigas cajón de canto constante igual a 2 m.

Los cajones son rectos y la losa superior tiene un ancho constante de 14,0 m.

2.- DEFINICIÓN DE PUNTOS DE MEDIDAS Y CAMIÓN TIPO

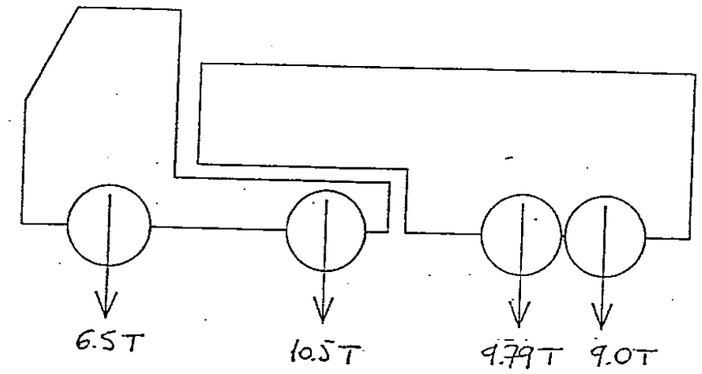
Puntos de medida.

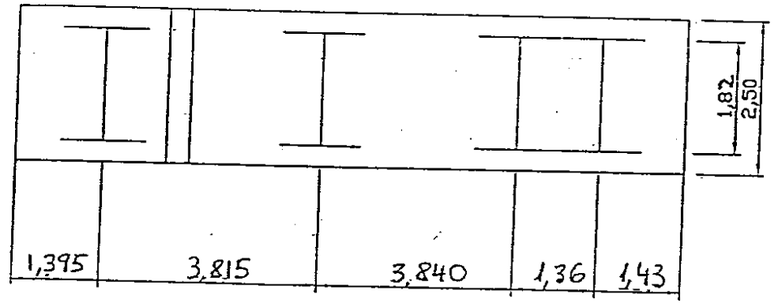
Se medirán flechas en los puntos centrales de cada vano.

Camión tipo

El camión tipo empleado para realizar la prueba de carga se compone de cabeza tractora más remolque. Las cargas por eje serán, para todos los camiones, de 6.5 t para el eje delantero de la cabeza, 10.5 para el eje trasero de la cabeza, 9.79 para el eje delantero del remolque y 9.0 en el eje trasero del remolque.

Las dimensiones del camión así como la distribución de ejes se reproducen en la figura siguiente.





Cualquier variación sustancial de las condiciones de dimensiones y cargas por eje del camión a emplear en la prueba de carga real de la estructura requerirá su recálculo.

Antes de comenzar la prueba, se comprobará mediante pasaje en la báscula el peso real de cada uno de los vehículos, debiendo quedar garantizado que su valor no se desvía en más de un 5% del considerado en el *Proyecto de la Prueba*. Los recibos de báscula deberán entregarse al Director de la prueba, quien dejará constancia de ello en el informe de la misma.

Los movimientos de los vehículos en cualquier fase del proyecto de carga o descarga se efectuarán con la lentitud necesaria para no provocar efectos dinámicos no deseados, y se organizan de forma que **no se produzcan sobre otras partes de la estructura solicitaciones superiores a las previstas.**

El tiempo de aplicación de las cargas vendrá determinado por el criterio de estabilización de medidas según definen las "Recomendaciones para la realización de pruebas de carga de recepción en puentes de carretera" (Ministerio de Fomento, 1.999). A estos efectos se realizará una medición cada 10 minutos hasta alcanzar la estabilización. Una vez lograda ésta, se procederá a descargar, realizándose una medición inmediata y una nueva serie cada 10 minutos hasta la convergencia. A lo largo de toda la Prueba se seguirán en todo momento las indicaciones del documento citado anteriormente del Ministerio de Fomento, así como cuantas directrices adicionales establezca el Director de las Pruebas.

Será necesario proceder a la descarga total de la estructura antes de materializar cada nuevo estado de carga.

3.- POSICIONES DE CARGA

Se realizarán un total de 7 fases de carga. De éstas corresponden 2 al control de centro de vano y 5 al control de cada una de las pilas. Estas fases de carga se resumen en las siguientes 7 posiciones tipo de cálculo:

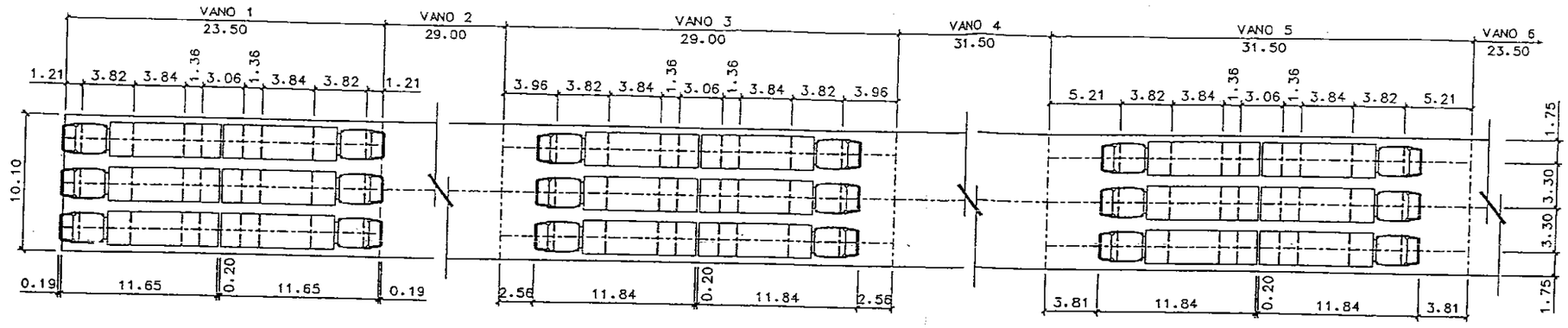
POSICIÓN FASE I:	camiones en vanos 1, 3 y 5.
POSICIÓN FASE II:	camiones en vanos 2, 4 y 6.
POSICIÓN FASE III:	camiones en vanos 1, 2 y 4.
POSICIÓN FASE IV:	camiones en vanos 2, 3 y 5.
POSICIÓN FASE V:	camiones en vanos 3, 4 y 6.
POSICIÓN FASE VI:	camiones en vanos 2, 4 y 5.
POSICIÓN FASE VII:	camiones en vanos 3, 5 y 6.

En todas y cada una de las fases anteriores, cada vano se carga con un total de 6 camiones, en dos parejas de tres camiones centrados en la sección transversal y enfrentados caja contra caja de manera que los ejes traseros se sitúen en centro de vano, tal y como se representa en los croquis adjuntos.

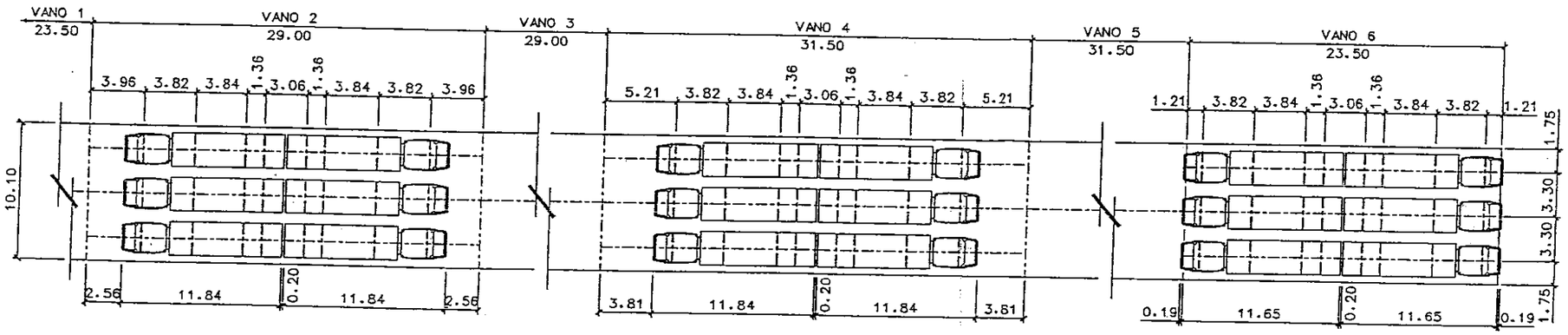
PLANOS P.C. →

)

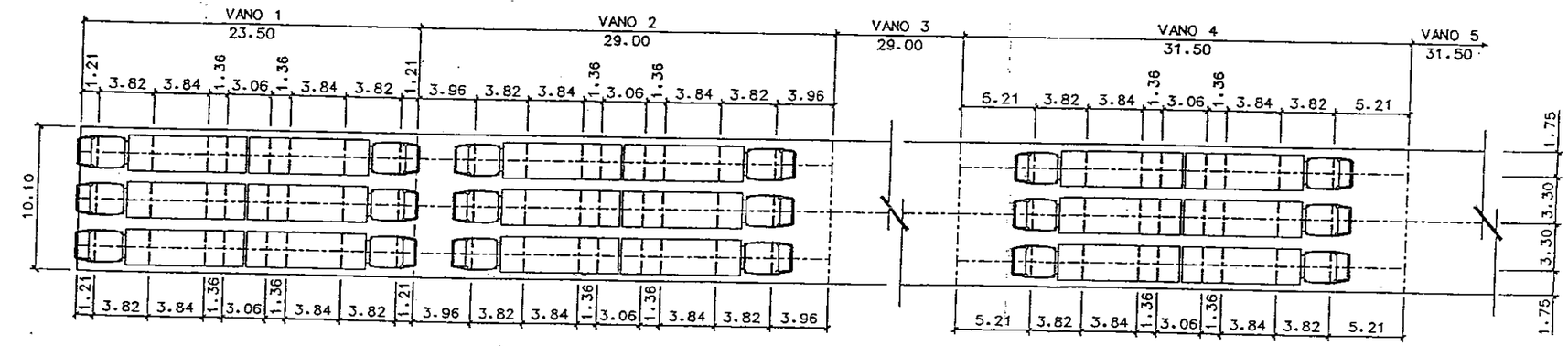
FASE 1

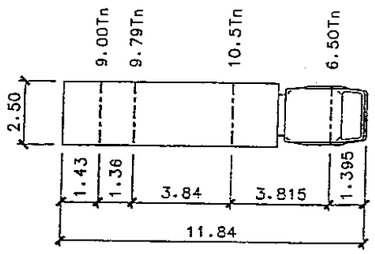


FASE 2

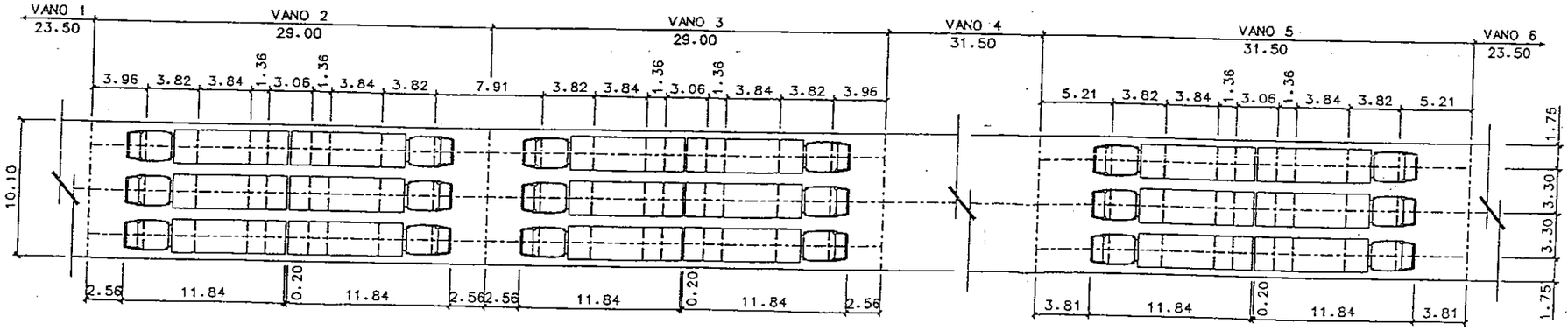


FASE 3





FASE 4



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EDICION	FECHA	MODIFICACIONES

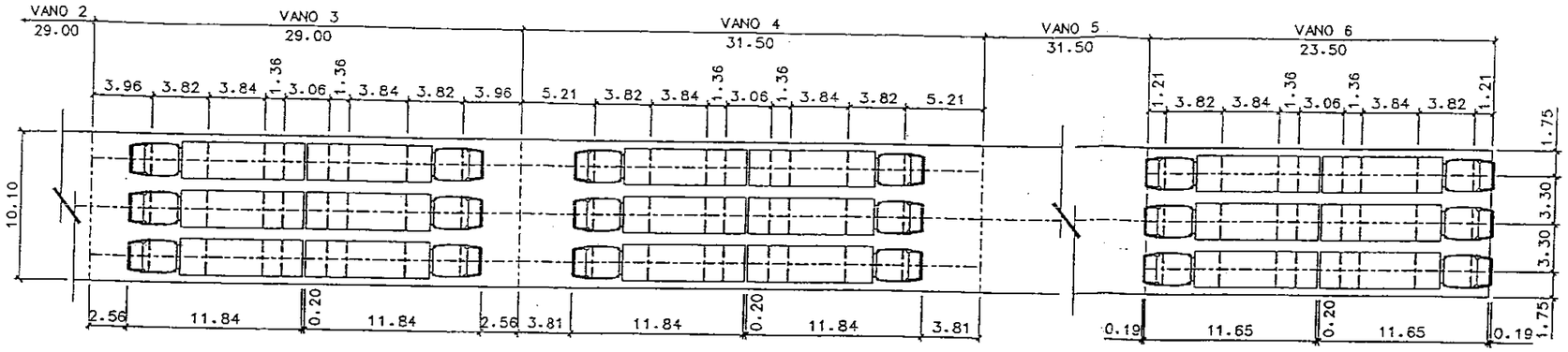
PACADAR

PRUEBA DE CARGA (I)
VIADUCTO DE BORGES BLANQUES
TRAMO: LLEIDA-MARTORELL. SUBTRAMO IIB
AVE LLEIDA-BARCELONA
COPISA-CRA. HISPANICA

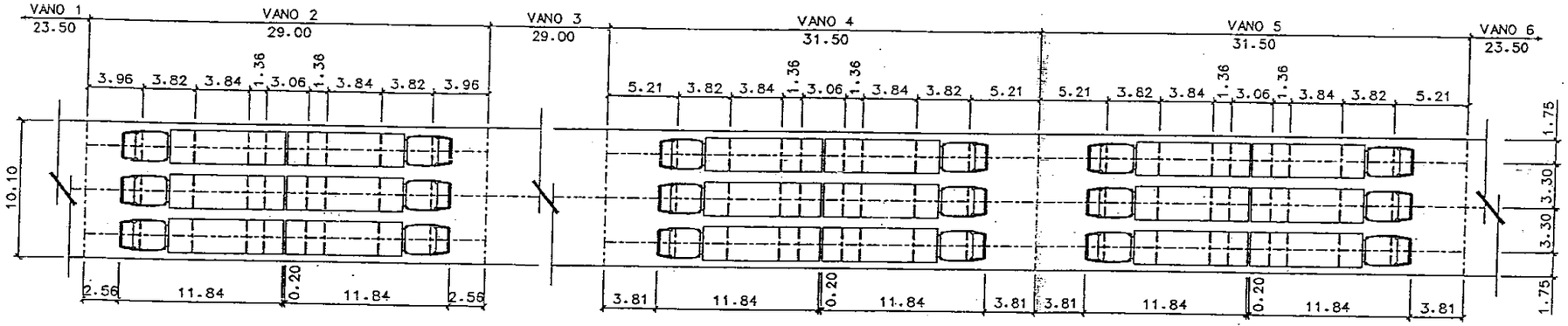
330

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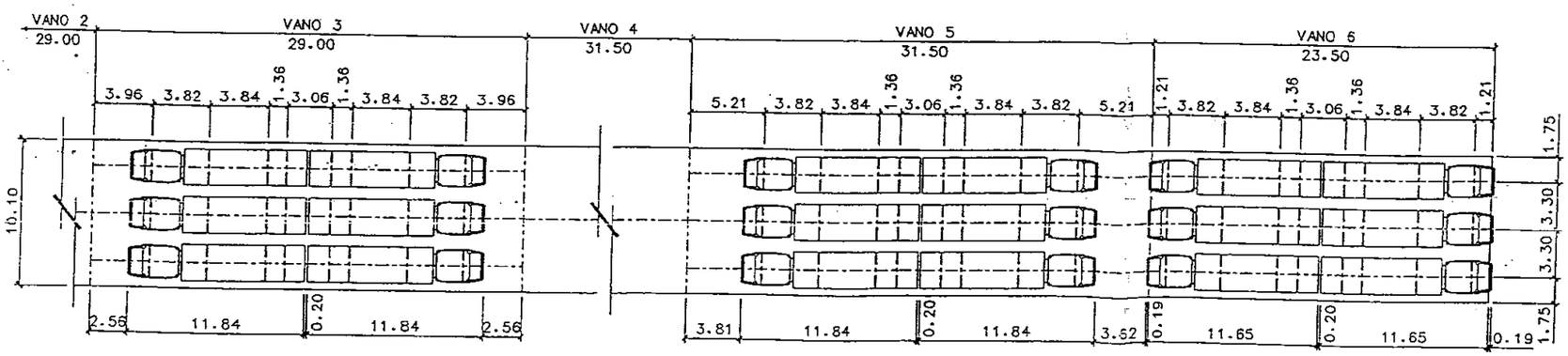
FASE 5

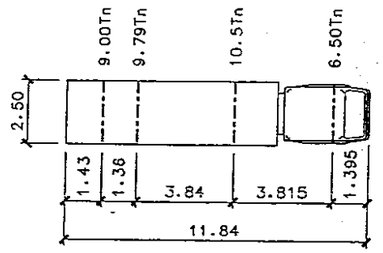


FASE 6



FASE 7





0	13-3-02	
EDICION	FECHA	MODIFICACIONES

PACADAR

PRUEBA DE CARGA (II)
VIADUCTO DE BORGES BLANQUES
TRAMO: LLEIDA-MARTORELL. SUBTRAMO IIB
AVE LLEIDA-BARCELONA
COPISA-CRA. HISPANICA

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4.- CONTROL DE ESFUERZOS Y MOVIMIENTOS

Se ha realizado una comprobación relativa a los esfuerzos provocados por la sobrecarga de la prueba. Dada las cuantías de éstas y las cargas totales a los que estará sometido el tablero en la prueba de carga, se considerará en todo momento inercias brutas (no fisuradas) en las secciones. Estos esfuerzos equivalen en los puntos a comprobar aproximadamente, a un 50% de los esfuerzos debidos a la sobrecarga total sin mayorar. A continuación se muestra un resumen de los esfuerzos más significativos (en t y m·t) correspondientes a las 7 posiciones tipo de cálculo.

A su vez, en este apartado se especificarán, para cada fase o posición de la carga definida en los apartados anteriores, las flechas esperables en la estructura en cada punto de control así como los esfuerzos en centro de vano y pila según la fase correspondiente.

Las flechas vienen indicadas en cm y se refieren siempre al punto medio de la sección. Estas flechas están calculadas con un valor del módulo de elasticidad del hormigón de las vigas E_c= 367.733 Kg/cm².

TABLA DE MOMENTOS FLECTORES

(mT)	proyecto	Fase I	%	Fase II	%	Fase III	%	Fase IV	%	Fase V	%	Fase VI	%	Fase VII	%
M_{ev1}	688.62	309.49	44.9												
M_{ev2}	758.08			327.65	43.2										
M_{ev3}	800.84	345.14	43.1												
M_{ev4}	898.30			373.57	41.6										
M_{ev5}	862.05	360.31	41.8												
M_{ev6}	706.68			315.78	44.7										
M_{p1}	-958.39					-402.19	42.0			-451.21	39.2	-472.26	39.2	-427.57	40.8
M_{p2}	-1056.57							-130.84	40.8						
M_{p3}	-1152.39														
M_{p4}	-1204.94														
M_{p5}	-1048.86														

TABLA DE ESFUERZOS CORTANTES

(T)	Proyecto	Fase I	%	Fase II	%	Fase III	%	Fase IV	%	Fase V	%	Fase VI	%	Fase VII	%
$P1_{izq}$	177.35					69.93	39.4								
$P1_{der}$	-191.5					-64.37	33.6								
$P2_{izq}$	190.45							63.38	33.3						
$P2_{der}$	-195.94							-65.77	33.6						
$P3_{izq}$	197.9									64.41	32.5				
$P3_{der}$	-205.09									-63.84	31.1				
$P4_{izq}$	207.06											64.77	31.3		
$P4_{der}$	-203.84											-63.06	30.9		
$P5_{izq}$	203.51													63.17	31.0
$P5_{der}$	-178.91													-71.88	40.2

TABLA DE FLECHAS PARA CADA FASE

(desplazamientos en cm)

	Cdv 1	Cdv 2	Cdv 3	Cdv 4	Cdv 5	Cdv 6
X (dist origen)	11.75 m	38 m	67 m	97.25 m	128.75 m	156.25 m
Fase I	-0.2028		-0.3173		-0.3701	
Fase II		-0.2909		-0.3962		-0.2077
Fase III	-0.0795	-0.2101		-0.3657		
Fase IV		-0.1554	-0.1995		-0.3606	
Fase V			-0.1484	-0.2593		-0.2005
Fase VI		-0.2813		-0.2496	-0.2092	
Fase VII			-0.2895		-0.2789	-0.0689

5.- ANEJO DE CÁLCULO

Se incluye a continuación el modelo de cálculo de las distintas fases de carga de la prueba así como sus resultados.

SOBRECARGAS PROYECTO DE CÁLCULO

CÁLCULO TENSIONAL

Hipótesis de cálculo:

IPF75B.MZ+

Tren IPF75B.Mz+

[1 1]SC1 ENV_TREN_GENERICO MZ+ + [1 1]SC9 ENV_TREN_GENERICO MZ+ + [1 1]TREN36 EnvTrenGen MZ+

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	
1	1	0.00	0.00	0.00	0.00	
1	2	1.00	0.00	-118.50	123.50	
2	2	1.00	0.00	-118.50	123.50	
2	3	1.18	0.00	-116.42	143.70	
3	3	1.18	0.00	-116.42	143.70	
3	4	2.35	0.00	-102.71	268.98	
4	4	2.35	0.00	-102.71	268.98	
4	5	3.53	0.00	-89.05	376.06	
5	5	3.53	0.00	-89.05	376.06	
5	6	4.70	0.00	-75.23	468.75	
6	6	4.70	0.00	-75.23	468.75	
6	7	5.88	0.00	-61.26	546.04	
7	7	5.88	0.00	-61.26	546.04	
7	8	7.05	0.00	-40.71	606.00	
8	8	7.05	0.00	-40.71	606.00	
8	9	8.23	0.00	-27.05	648.93	
9	9	8.23	0.00	-27.05	648.93	
9	10	9.40	0.00	-13.23	676.64	
10	10	9.40	0.00	-13.23	676.64	
10	11	10.58	0.00	-6.25	688.62	← M^{+}_{CV1}
11	11	10.58	0.00	-6.25	688.62	
11	12	11.75	0.00	8.19	682.18	
12	12	11.75	0.00	8.19	682.18	
12	13	12.93	0.00	22.03	661.13	
13	13	12.93	0.00	22.03	661.13	
13	14	14.10	0.00	41.27	623.64	
14	14	14.10	0.00	41.27	623.64	
14	15	15.28	0.00	49.05	571.41	
15	15	15.28	0.00	49.05	571.41	
15	16	16.45	0.00	62.69	502.07	
16	16	16.45	-0.74	62.69	502.07	
16	17	17.63	-0.91	76.52	416.03	
17	17	17.63	-0.91	76.52	416.03	
17	18	18.80	-1.07	90.48	312.80	
18	18	18.80	0.00	90.48	312.80	
18	19	19.98	0.00	46.88	223.27	
19	19	19.98	0.00	46.88	223.27	
19	20	21.15	0.00	23.83	179.44	
20	20	21.15	0.00	23.83	179.44	
20	21	22.33	0.00	4.27	160.02	
21	21	22.33	0.00	4.27	160.02	
21	22	22.50	0.00	6.03	159.12	
22	22	22.50	0.00	6.03	159.12	
22	23	23.50	0.00	-6.82	160.19	
23	1023	23.50	0.00	25.29	160.19	
23	24	24.50	0.00	21.03	139.04	
24	24	24.50	0.00	21.03	139.04	
24	25	24.95	0.00	11.79	134.32	

IPF75B.xls Programa DINTEL 12/03/02
IPF75B.MZ+
CÁLCULO TENSIONAL
Hipótesis de cálculo:
IPF75B.MZ+
Tren IPF75B.Mz+
[1 1]SC1 ENV_TREN_GENERICO MZ+ + [1 1]SC9 ENV_TREN_GENERICO MZ+ + [1 1]TREN36 EnvTrenGen MZ+
Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	
25	25	24.95	0.00	11.79	134.32	
25	26	26.40	0.00	-11.15	134.58	
26	26	26.40	0.00	-11.15	134.58	
26	27	27.85	0.00	-53.72	173.93	
27	27	27.85	0.00	-53.72	173.93	
27	28	29.30	0.00	-67.33	265.49	
28	28	29.30	-0.64	-67.33	265.49	
28	29	30.75	-0.86	-89.63	394.98	
29	29	30.75	-0.86	-89.63	394.98	
29	30	32.20	-0.69	-72.23	517.55	
30	30	32.20	0.00	-72.24	517.55	
30	31	33.65	0.00	-55.91	613.81	
31	31	33.65	0.00	-55.91	613.81	
31	32	35.10	0.00	-45.17	686.91	
32	32	35.10	0.00	-45.17	686.91	
32	33	36.55	0.00	-21.24	735.73	
33	33	36.55	0.00	-21.24	735.73	
33	34	38.00	0.00	-10.49	757.27	
34	34	38.00	0.00	-10.49	757.27	
34	35	39.45	0.00	5.83	758.08	← M^{+}_{CV2}
35	35	39.45	0.00	5.83	758.08	
35	36	40.90	0.00	29.76	731.52	
36	36	40.90	0.00	29.76	731.52	
36	37	42.35	0.00	40.51	680.82	
37	37	42.35	0.00	40.51	680.82	
37	38	43.80	0.00	56.83	606.85	
38	38	43.80	-0.55	56.83	606.85	
38	39	45.25	-0.71	74.25	506.62	
39	39	45.25	-0.71	74.25	506.62	
39	40	46.70	-0.68	69.60	388.65	
40	40	46.70	0.00	69.60	388.65	
40	41	48.15	0.00	37.74	297.46	
41	41	48.15	0.00	37.74	297.46	
41	42	49.60	0.00	13.31	259.25	
42	42	49.60	0.00	13.31	259.25	
42	43	51.05	0.00	-9.46	253.11	
43	43	51.05	0.00	-9.46	253.11	
43	44	51.50	0.00	-4.96	256.36	
44	44	51.50	0.00	-4.96	256.36	
44	45	52.50	0.00	-22.93	274.92	
45	1045	52.50	0.00	33.50	274.92	
45	46	53.50	0.00	29.24	245.68	
46	46	53.50	0.00	29.24	245.68	
46	47	53.95	0.00	20.01	237.59	
47	47	53.95	0.00	20.01	237.59	
47	48	55.40	0.00	-6.42	227.80	
48	48	55.40	0.00	-6.42	227.80	
48	49	56.85	0.00	-46.24	258.52	

CÁLCULO TENSIONAL

Hipótesis de cálculo:

IPF75B.MZ+

Tren IPF75B.Mz+

[1: 1]SC1 ENV_TREN_GENERICO MZ+ + [1: 1]SC9 ENV_TREN_GENERICO MZ+ + [1: 1]TREN30 EnvTrenGen MZ+

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	
49	49	56.85	0.00	-46.24	258.52	
49	50	58.30	0.00	-63.55	342.74	
50	50	58.30	-0.61	-63.55	342.74	
50	51	59.75	-0.81	-85.36	469.37	
51	51	59.75	-0.81	-85.36	469.37	
51	52	61.20	-0.65	-67.98	585.80	
52	52	61.20	0.00	-67.99	585.80	
52	53	62.65	0.00	-51.65	675.87	
53	53	62.65	0.00	-51.65	675.87	
53	54	64.10	0.00	-40.92	742.82	
54	54	64.10	0.00	-40.92	742.82	
54	55	65.55	0.00	-16.99	785.48	
55	55	65.55	0.00	-16.99	785.48	
55	56	67.00	0.00	-6.25	800.84	← M^{+}_{CV3}
56	56	67.00	0.00	-6.25	800.84	
56	57	68.45	0.00	10.08	795.52	
57	57	68.45	0.00	10.08	795.52	
57	58	69.90	0.00	34.01	762.80	
58	58	69.90	0.00	34.01	762.80	
58	59	71.35	0.00	44.75	705.96	
59	59	71.35	0.00	44.75	705.96	
59	60	72.80	0.00	61.08	625.83	
60	60	72.80	-0.58	61.08	625.83	
60	61	74.25	-0.76	78.48	519.44	
61	61	74.25	-0.76	78.48	519.44	
61	62	75.70	-0.68	70.07	393.82	
62	62	75.70	0.00	70.08	393.82	
62	63	77.15	0.00	33.57	301.09	
63	63	77.15	0.00	33.57	301.09	
63	64	78.60	0.00	9.24	264.66	
64	64	78.60	0.00	9.24	264.66	
64	65	80.05	0.00	-13.44	261.87	
65	65	80.05	0.00	-13.44	261.87	
65	66	80.50	0.00	-8.94	266.91	
66	66	80.50	0.00	-8.94	266.91	
66	67	81.50	0.00	-26.89	288.79	
67	1067	81.50	0.00	29.62	288.79	
67	68	82.50	0.00	24.12	263.58	
68	68	82.50	0.00	24.12	263.58	
68	69	83.08	0.00	14.94	254.68	
69	69	83.08	0.00	14.94	254.68	
69	70	84.65	0.00	-12.90	254.17	
70	70	84.65	0.00	-12.90	254.17	
70	71	86.23	0.00	-63.33	290.75	
71	71	86.23	0.00	-63.33	290.75	
71	72	87.80	0.00	-77.39	396.01	
72	72	87.80	-0.68	-77.39	396.01	
72	73	89.38	-0.84	-95.28	536.08	

CÁLCULO TENSIONAL

Hipótesis de cálculo:

IPF75B.MZ+

Tren IPF75B.Mz+

[1: 1]SC1 ENV_TREN_GENERICO MZ+ + [1: 1]SC9 ENV_TREN_GENERICO MZ+ + [1: 1]TREN30 EnvTrenGen MZ+

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	
73	73	89.38	-0.84	-95.28	536.08	
73	74	90.95	-0.63	-70.32	668.25	
74	74	90.95	0.00	-70.33	668.25	
74	75	92.53	0.00	-51.66	770.02	
75	75	92.53	0.00	-51.66	770.02	
75	76	94.10	0.00	-40.21	841.76	
76	76	94.10	0.00	-40.21	841.76	
76	77	95.68	0.00	-21.68	885.77	
77	77	95.68	0.00	-21.68	885.77	
77	78	97.25	0.00	-2.73	898.30	← M^{+}_{CV4}
78	78	97.25	0.00	-2.73	898.30	
78	79	98.83	0.00	22.05	885.21	
79	79	98.83	0.00	22.05	885.21	
79	80	100.40	0.00	40.56	840.60	
80	80	100.40	0.00	40.56	840.60	
80	81	101.98	0.00	52.03	768.33	
81	81	101.98	0.00	52.03	768.33	
81	82	103.55	0.00	70.67	665.98	
82	82	103.55	-0.63	70.67	665.98	
82	83	105.13	-0.85	95.67	533.20	
83	83	105.13	-0.85	95.67	533.20	
83	84	106.70	-0.74	83.58	385.83	
84	84	106.70	0.00	83.58	385.83	
84	85	108.28	0.00	66.32	270.53	
85	85	108.28	0.00	66.32	270.53	
85	86	109.85	0.00	16.78	216.09	
86	86	109.85	0.00	16.78	216.09	
86	87	111.43	0.00	-10.32	206.72	
87	87	111.43	0.00	-10.32	206.72	
87	88	112.00	0.00	-19.47	212.34	
88	88	112.00	0.00	-19.47	212.34	
88	89	113.00	0.00	-24.96	232.69	
89	1089	113.00	0.00	19.02	232.69	
89	90	114.00	0.00	13.54	218.31	
90	90	114.00	0.00	13.54	218.31	
90	91	114.58	0.00	4.40	216.17	
91	91	114.58	0.00	4.40	216.17	
91	92	116.15	0.00	-20.28	232.44	
92	92	116.15	0.00	-20.28	232.44	
92	93	117.73	0.00	-69.74	289.69	
93	93	117.73	0.00	-69.74	289.69	
93	94	119.30	0.00	-86.68	410.83	
94	94	119.30	-0.77	-86.67	410.83	
94	95	120.88	-0.78	-88.68	552.00	
95	95	120.88	-0.78	-88.68	552.00	
95	96	122.45	-0.56	-63.68	673.75	
96	96	122.45	0.00	-63.68	673.75	
96	97	124.03	0.00	-45.03	765.11	

CÁLCULO TENSIONAL

Hipótesis de cálculo:

IPF75B.MZ+

Tren IPF75B.Mz+

[1.1]SC1 ENV_TREN_GENERICO MZ+ + [1.1]SC9 ENV_TREN_GENERICO MZ+ + [1.1]TREN30 Env.TrenGen MZ+

Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
97	97	124.03	0.00	-45.03	765.11
97	98	125.60	0.00	-33.57	826.34
98	98	125.60	0.00	-33.57	826.34
98	99	127.18	0.00	-15.05	859.96
99	99	127.18	0.00	-15.05	859.96
99	100	128.75	0.00	9.72	862.05 ← M_{CVE}^{+}
100	100	128.75	0.00	9.72	862.05
100	101	130.33	0.00	28.68	838.46
101	101	130.33	0.00	28.68	838.46
101	102	131.90	0.00	47.20	783.45
102	102	131.90	0.00	47.20	783.45
102	103	133.48	0.00	58.66	700.68
103	103	133.48	0.00	58.66	700.68
103	104	135.05	0.00	77.32	587.90
104	104	135.05	-0.68	77.32	587.90
104	105	136.63	-0.90	102.27	444.76
105	105	136.63	-0.90	102.27	444.76
105	106	138.20	-0.72	81.14	301.36
106	106	138.20	0.00	81.14	301.36
106	107	139.78	0.00	57.46	195.47
107	107	139.78	0.00	57.46	195.47
107	108	141.35	0.00	13.11	156.86
108	108	141.35	0.00	13.11	156.86
108	109	142.93	0.00	-11.95	158.47
109	109	142.93	0.00	-11.95	158.47
109	110	143.50	0.00	-21.15	166.12
110	110	143.50	0.00	-21.15	166.12
110	111	144.50	0.00	-26.65	188.53
111	1111	144.50	0.00	8.02	188.53
111	112	145.50	0.00	-4.79	186.75
112	112	145.50	0.00	-4.79	186.75
112	113	145.68	0.00	-3.05	187.43
113	113	145.68	0.00	-3.05	187.43
113	114	146.85	0.00	-31.97	207.40
114	114	146.85	0.00	-31.97	207.40
114	115	148.03	0.00	-52.60	253.98
115	115	148.03	0.00	-52.60	253.98
115	116	149.20	0.00	-88.78	344.92
116	116	149.20	-1.05	-88.77	344.92
116	117	150.38	-0.89	-74.81	446.17
117	117	150.38	-0.89	-74.81	446.17
117	118	151.55	-0.71	-60.97	530.20
118	118	151.55	0.00	-60.98	530.20
118	119	152.73	0.00	-47.33	597.51
119	119	152.73	0.00	-47.33	597.51
119	120	153.90	0.00	-39.56	647.74
120	120	153.90	0.00	-39.56	647.74
120	121	155.08	0.00	-20.31	683.23

CÁLCULO TENSIONAL

Hipótesis de cálculo:

IPF75B.MZ+

Tren IPF75B.Mz+

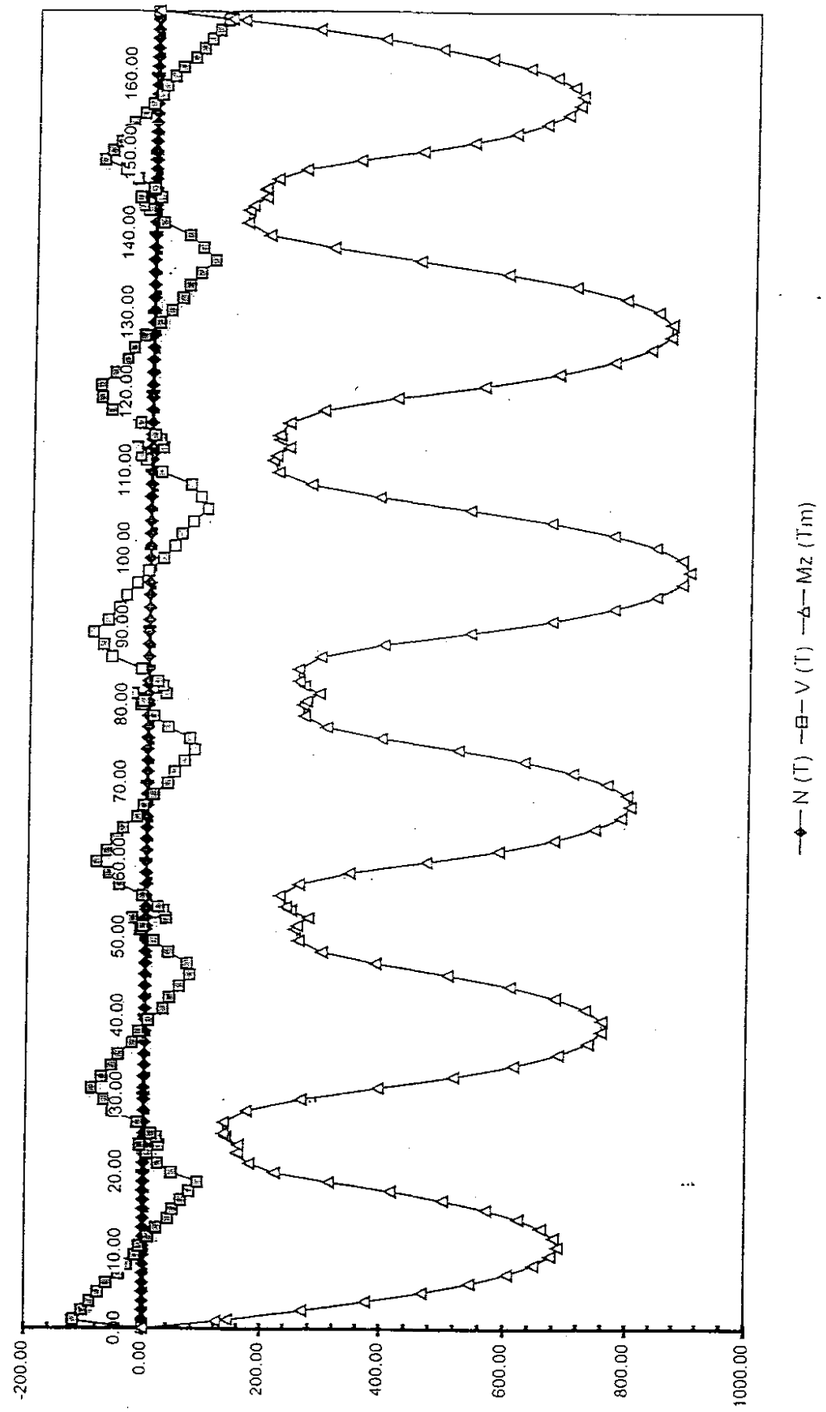
[1.1]SC1 ENV_TREN_GENERICO MZ+ + [1.1]SC9 ENV_TREN_GENERICO MZ+ + [1.1]TREN30 Env.TrenGen MZ+

Coef exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
121	121	155.08	0.00	-20.31	683.23
121	122	156.25	0.00	-6.48	702.27
122	122	156.25	0.00	-6.48	702.27
122	123	157.43	0.00	7.96	706.68 ← M_{CV6}^{+}
123	123	157.43	0.00	7.96	706.68
123	124	158.60	0.00	14.94	692.71
124	124	158.60	0.00	14.94	692.71
124	125	159.78	0.00	28.77	662.99
125	125	159.78	0.00	28.77	662.99
125	126	160.95	0.00	42.42	618.05
126	126	160.95	0.00	42.42	618.05
126	127	162.13	0.00	62.97	556.08
127	127	162.13	0.00	62.97	556.08
127	128	163.30	0.00	76.94	476.78
128	128	163.30	0.00	76.94	476.78
128	129	164.48	0.00	90.77	382.09
129	129	164.48	0.00	90.77	382.09
129	130	165.65	0.00	104.42	272.99
130	130	165.65	0.00	104.42	272.99
130	131	166.83	0.00	118.13	145.70
131	131	166.83	0.00	118.13	145.70
131	132	167.00	0.00	120.18	125.17
132	132	167.00	0.00	120.18	125.17
132	133	168.00	0.00	0.00	0.00

Programa DINTEL
IPF75B.MZ+

GRÁFICO DE ESFUERZOS



CÁLCULO TENSIONAL

Hipótesis de cálculo:

IPF75B.Mz-

Envolvente IPF75B.Mz-

[1. 1]SC1 ENV_TREN_GENERICO MZ- + [1. 1]SC9 ENV_TREN_GENERICO MZ- + [1. 1]TREN30 EnvTrenGen MZ-

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	0.00	0.00
1	2	1.00	0.00	24.97	-24.97
2	2	1.00	0.00	24.97	-24.97
2	3	1.18	0.00	24.97	-29.35
3	3	1.18	0.00	24.97	-29.35
3	4	2.35	0.00	24.97	-58.68
4	4	2.35	0.00	24.97	-58.68
4	5	3.53	0.00	24.97	-88.04
5	5	3.53	0.00	24.97	-88.04
5	6	4.70	0.00	24.97	-117.37
6	6	4.70	0.00	24.97	-117.37
6	7	5.88	0.00	24.97	-146.72
7	7	5.88	0.00	24.97	-146.72
7	8	7.05	0.00	24.97	-176.05
8	8	7.05	0.00	24.97	-176.05
8	9	8.23	0.00	24.97	-205.41
9	9	8.23	0.00	24.97	-205.41
9	10	9.40	0.00	24.97	-234.76
10	10	9.40	0.00	24.97	-234.76
10	11	10.58	0.00	24.97	-264.09
11	11	10.58	0.00	24.97	-264.09
11	12	11.75	0.00	24.97	-293.44
12	12	11.75	0.00	24.97	-293.44
12	13	12.93	0.00	24.97	-322.78
13	13	12.93	0.00	24.97	-322.78
13	14	14.10	0.00	24.97	-352.13
14	14	14.10	0.00	24.97	-352.13
14	15	15.28	0.00	24.97	-381.47
15	15	15.28	0.00	24.97	-381.47
15	16	16.45	0.00	24.97	-410.81
16	16	16.45	-0.30	24.97	-410.81
16	17	17.63	-0.30	24.97	-440.15
17	17	17.63	-0.30	24.97	-440.15
17	18	18.80	-0.30	24.97	-469.50
18	18	18.80	0.00	24.97	-469.50
18	19	19.98	0.00	67.94	-521.94
19	19	19.98	0.00	67.94	-521.94
19	20	21.15	0.00	102.75	-619.93
20	20	21.15	0.00	102.75	-619.93
20	21	22.33	0.00	150.44	-768.57
21	21	22.33	0.00	150.44	-768.57
21	22	22.50	0.00	150.44	-794.90
22	22	22.50	0.00	150.44	-794.90
22	23	23.50	0.00	177.35	-958.39
23	1023	23.50	0.00	-191.50	-958.39
23	24	24.50	0.00	-176.03	-777.16
24	24	24.50	0.00	-176.03	-777.16
24	25	24.95	0.00	-161.71	-703.74

$\leftarrow M_{P1}^{-} \begin{cases} Q^{-} = 177.35^{t} \\ Q^{+} = -191.5^{t} \end{cases}$

CÁLCULO TENSIONAL

Hipótesis de cálculo:

IPF75B.Mz-

Envolvente IPF75B.Mz-

[1.1]SC1 ENV_TREN_GENERICO MZ- + [1.1]SC6 ENV_TREN_GENERICO MZ- + [1.1]TREN30 EnvTrenGen MZ-

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	
25	25	24.95	0.00	-161.71	-703.74	
25	26	26.40	0.00	-104.62	-502.40	
26	26	26.40	0.00	-104.62	-502.40	
26	27	27.85	0.00	-65.32	-376.00	
27	27	27.85	0.00	-65.32	-376.00	
27	28	29.30	0.00	-35.20	-303.11	
28	28	29.30	-0.34	-35.20	-303.11	
28	29	30.75	0.04	4.37	-291.99	
29	29	30.75	0.04	4.37	-291.99	
29	30	32.20	0.04	4.37	-298.33	
30	30	32.20	0.00	4.37	-298.33	
30	31	33.65	0.00	4.37	-304.68	
31	31	33.65	0.00	4.37	-304.68	
31	32	35.10	0.00	4.37	-311.03	
32	32	35.10	0.00	4.37	-311.03	
32	33	36.55	0.00	4.37	-317.37	
33	33	36.55	0.00	4.37	-317.37	
33	34	38.00	0.00	10.44	-330.13	
34	34	38.00	0.00	10.44	-330.13	
34	35	39.45	0.00	10.44	-345.28	
35	35	39.45	0.00	10.44	-345.28	
35	36	40.90	0.00	10.44	-360.42	
36	36	40.90	0.00	10.44	-360.42	
36	37	42.35	0.00	10.44	-375.57	
37	37	42.35	0.00	10.44	-375.57	
37	38	43.80	0.00	10.44	-390.71	
38	38	43.80	-0.10	10.44	-390.71	
38	39	45.25	-0.10	10.44	-405.85	
39	39	45.25	-0.10	10.44	-405.85	
39	40	46.70	-0.31	32.35	-427.65	
40	40	46.70	0.00	32.35	-427.65	
40	41	48.15	0.00	65.45	-496.38	
41	41	48.15	0.00	65.45	-496.38	
41	42	49.60	0.00	104.39	-618.32	
42	42	49.60	0.00	104.39	-618.32	
42	43	51.05	0.00	158.19	-805.15	
43	43	51.05	0.00	158.19	-805.15	
43	44	51.50	0.00	158.19	-876.34	
44	44	51.50	0.00	158.19	-876.34	$\leftarrow M_{P2}^{-}$ $\begin{cases} Q^{-} = 190.45^{t} \\ Q^{+} = -195.94^{t} \end{cases}$
44	45	52.50	0.00	190.45	-1056.57	
45	1045	52.50	0.00	-195.94	-1056.57	
45	46	53.50	0.00	-177.33	-870.21	
46	46	53.50	0.00	-177.33	-870.21	
46	47	53.95	0.00	-163.60	-796.50	
47	47	53.95	0.00	-163.60	-796.50	
47	48	55.40	0.00	-109.54	-600.24	
48	48	55.40	0.00	-109.54	-600.24	
48	49	56.85	0.00	-70.25	-469.65	

CÁLCULO TENSIONAL

Hipótesis de cálculo:

IPF75B.Mz-

Envolvente IPF75B.Mz-

[1.1]SC1 ENV_TREN_GENERICO MZ- + [1.1]SC6 ENV_TREN_GENERICO MZ- + [1.1]TREN30 EnvTrenGen MZ-

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	
49	49	56.85	0.00	-70.25	-469.65	
49	50	58.30	0.00	-36.45	-393.03	
50	50	58.30	-0.35	-36.45	-393.03	
50	51	59.75	0.03	2.64	-382.73	
51	51	59.75	0.03	2.64	-382.73	
51	52	61.20	0.03	2.64	-386.55	
52	52	61.20	0.00	2.64	-386.55	
52	53	62.65	0.00	2.64	-390.37	
53	53	62.65	0.00	2.64	-390.37	
53	54	64.10	0.00	2.64	-394.19	
54	54	64.10	0.00	2.64	-394.19	
54	55	65.55	0.00	2.64	-398.01	
55	55	65.55	0.00	2.64	-398.01	
55	56	67.00	0.00	10.20	-408.81	
56	56	67.00	0.00	10.20	-408.81	
56	57	68.45	0.00	10.20	-423.60	
57	57	68.45	0.00	10.20	-423.60	
57	58	69.90	0.00	10.20	-438.40	
58	58	69.90	0.00	10.20	-438.40	
58	59	71.35	0.00	10.20	-453.19	
59	59	71.35	0.00	10.20	-453.19	
59	60	72.80	0.00	10.20	-467.99	
60	60	72.80	-0.10	10.20	-467.99	
60	61	74.25	-0.10	10.20	-482.79	
61	61	74.25	-0.10	10.20	-482.79	
61	62	75.70	-0.34	35.87	-502.70	
62	62	75.70	0.00	35.87	-502.70	
62	63	77.15	0.00	73.70	-578.29	
63	63	77.15	0.00	73.70	-578.29	
63	64	78.60	0.00	112.53	-707.92	
64	64	78.60	0.00	112.53	-707.92	
64	65	80.05	0.00	161.26	-893.39	
65	65	80.05	0.00	161.26	-893.39	
65	66	80.50	0.00	166.03	-968.06	
66	66	80.50	0.00	166.03	-968.06	
66	67	81.50	0.00	197.90	-1152.39	$\leftarrow M_{P3}^{-}$ $\begin{cases} Q^{-} = 197.9^{t} \\ Q^{+} = -205.09^{t} \end{cases}$
67	1067	81.50	0.00	-205.09	-1152.39	
67	68	82.50	0.00	-188.47	-957.69	
68	68	82.50	0.00	-188.47	-957.69	
68	69	83.08	0.00	-172.85	-855.95	
69	69	83.08	0.00	-172.85	-855.95	
69	70	84.65	0.00	-112.11	-632.29	
70	70	84.65	0.00	-112.11	-632.29	
70	71	86.23	0.00	-69.39	-484.20	
71	71	86.23	0.00	-69.39	-484.20	
71	72	87.80	0.00	-36.68	-399.30	
72	72	87.80	-0.33	-36.68	-399.30	
72	73	89.38	-0.01	-0.15	-380.36	

CÁLCULO TENSIONAL

Hipótesis de cálculo:

IPF75B.Mz-

Envolvente IPF75B.Mz-

[1]SC1 ENV_TREN_GENERICO MZ- + [1]SC9 ENV_TREN_GENERICO MZ- + [1]TREN30 Env.TrenGen MZ-

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
73	73	89.38	-0.01	-0.15	-380.36
73	74	90.95	-0.01	-0.15	-380.12
74	74	90.95	0.00	-0.15	-380.12
74	75	92.53	0.00	-0.15	-379.88
75	75	92.53	0.00	-0.15	-379.88
75	76	94.10	0.00	-0.15	-379.65
76	76	94.10	0.00	-0.15	-379.65
76	77	95.68	0.00	-0.15	-379.42
77	77	95.68	0.00	-0.15	-379.42
77	78	97.25	0.00	6.56	-385.12
78	78	97.25	0.00	6.56	-385.12
78	79	98.83	0.00	6.56	-395.46
79	79	98.83	0.00	6.56	-395.46
79	80	100.40	0.00	6.56	-405.81
80	80	100.40	0.00	6.56	-405.81
80	81	101.98	0.00	6.56	-416.15
81	81	101.98	0.00	6.56	-416.15
81	82	103.55	0.00	6.56	-426.50
82	82	103.55	-0.05	6.56	-426.50
82	83	105.13	-0.05	6.56	-436.85
83	83	105.13	-0.05	6.56	-436.85
83	84	106.70	-0.33	37.25	-459.13
84	84	106.70	0.00	37.25	-459.13
84	85	108.28	0.00	73.16	-544.65
85	85	108.28	0.00	73.16	-544.65
85	86	109.85	0.00	115.48	-692.81
86	86	109.85	0.00	115.48	-692.81
86	87	111.43	0.00	172.94	-907.11
87	87	111.43	0.00	172.94	-907.11
87	88	112.00	0.00	187.83	-1007.91
88	88	112.00	0.00	187.83	-1007.91
88	89	113.00	0.00	207.60	-1204.94
89	1089	113.00	0.00	-203.84	-1204.94
89	90	114.00	0.00	-184.10	-1011.93
90	90	114.00	0.00	-184.10	-1011.93
90	91	114.58	0.00	-169.21	-913.39
91	91	114.58	0.00	-169.21	-913.39
91	92	116.15	0.00	-111.88	-705.83
92	92	116.15	0.00	-111.88	-705.83
92	93	117.73	0.00	-69.74	-563.93
93	93	117.73	0.00	-69.74	-563.93
93	94	119.30	0.00	-34.15	-484.30
94	94	119.30	-0.30	-34.15	-484.30
94	95	120.88	-0.12	-13.54	-455.85
95	95	120.88	-0.12	-13.54	-455.85
95	96	122.45	-0.12	-13.54	-434.53
96	96	122.45	0.00	-13.54	-434.53
96	97	124.03	0.00	-13.54	-413.21

$\leftarrow M_{P4}^{-}$ $Q^{-} = 207.6\ t$, $Q^{+} = -203.84\ t$

CÁLCULO TENSIONAL

Hipótesis de cálculo:

IPF75B.Mz-

Envolvente IPF75B.Mz-

[1]SC1 ENV_TREN_GENERICO MZ- + [1]SC9 ENV_TREN_GENERICO MZ- + [1]TREN30 Env.TrenGen MZ-

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
97	97	124.03	0.00	-13.54	-413.21
97	98	125.60	0.00	-13.54	-391.89
98	98	125.60	0.00	-13.54	-391.89
98	99	127.18	0.00	-13.54	-370.57
99	99	127.18	0.00	-13.54	-370.57
99	100	128.75	0.00	-13.54	-349.25
100	100	128.75	0.00	-13.54	-349.25
100	101	130.33	0.00	-13.54	-327.93
101	101	130.33	0.00	-13.54	-327.93
101	102	131.90	0.00	-7.44	-313.79
102	102	131.90	0.00	-7.44	-313.79
102	103	133.48	0.00	-7.44	-302.07
103	103	133.48	0.00	-7.44	-302.07
103	104	135.05	0.00	-7.44	-290.36
104	104	135.05	0.07	-7.44	-290.36
104	105	136.63	0.07	-7.44	-278.64
105	105	136.63	0.07	-7.44	-278.64
105	106	138.20	-0.29	32.33	-293.37
106	106	138.20	0.00	32.33	-293.37
106	107	139.78	0.00	74.68	-376.71
107	107	139.78	0.00	74.68	-376.71
107	108	141.35	0.00	108.22	-521.90
108	108	141.35	0.00	108.22	-521.90
108	109	142.93	0.00	169.63	-754.98
109	109	142.93	0.00	169.63	-754.98
109	110	143.50	0.00	184.59	-854.96
110	110	143.50	0.00	184.59	-854.96
110	111	144.50	0.00	203.51	-1048.86
111	1111	144.50	0.00	-178.91	-1048.86
111	112	145.50	0.00	-150.99	-882.49
112	112	145.50	0.00	-150.99	-882.49
112	113	145.68	0.00	-150.99	-856.08
113	113	145.68	0.00	-150.99	-856.08
113	114	146.85	0.00	-97.74	-714.26
114	114	146.85	0.00	-97.74	-714.26
114	115	148.03	0.00	-65.36	-615.33
115	115	148.03	0.00	-65.36	-615.33
115	116	149.20	0.00	-29.93	-562.58
116	116	149.20	-0.35	-29.92	-562.58
116	117	150.38	-0.35	-29.92	-527.42
117	117	150.38	-0.35	-29.92	-527.42
117	118	151.55	-0.35	-29.92	-492.26
118	118	151.55	0.00	-29.93	-492.26
118	119	152.73	0.00	-29.93	-457.09
119	119	152.73	0.00	-29.93	-457.09
119	120	153.90	0.00	-29.93	-421.93
120	120	153.90	0.00	-29.93	-421.93
120	121	155.08	0.00	-29.93	-386.78

$\leftarrow M_{P5}^{-}$ $Q^{-} = 203.51\ t$, $Q^{+} = -178.91\ t$

CÁLCULO TENSIONAL

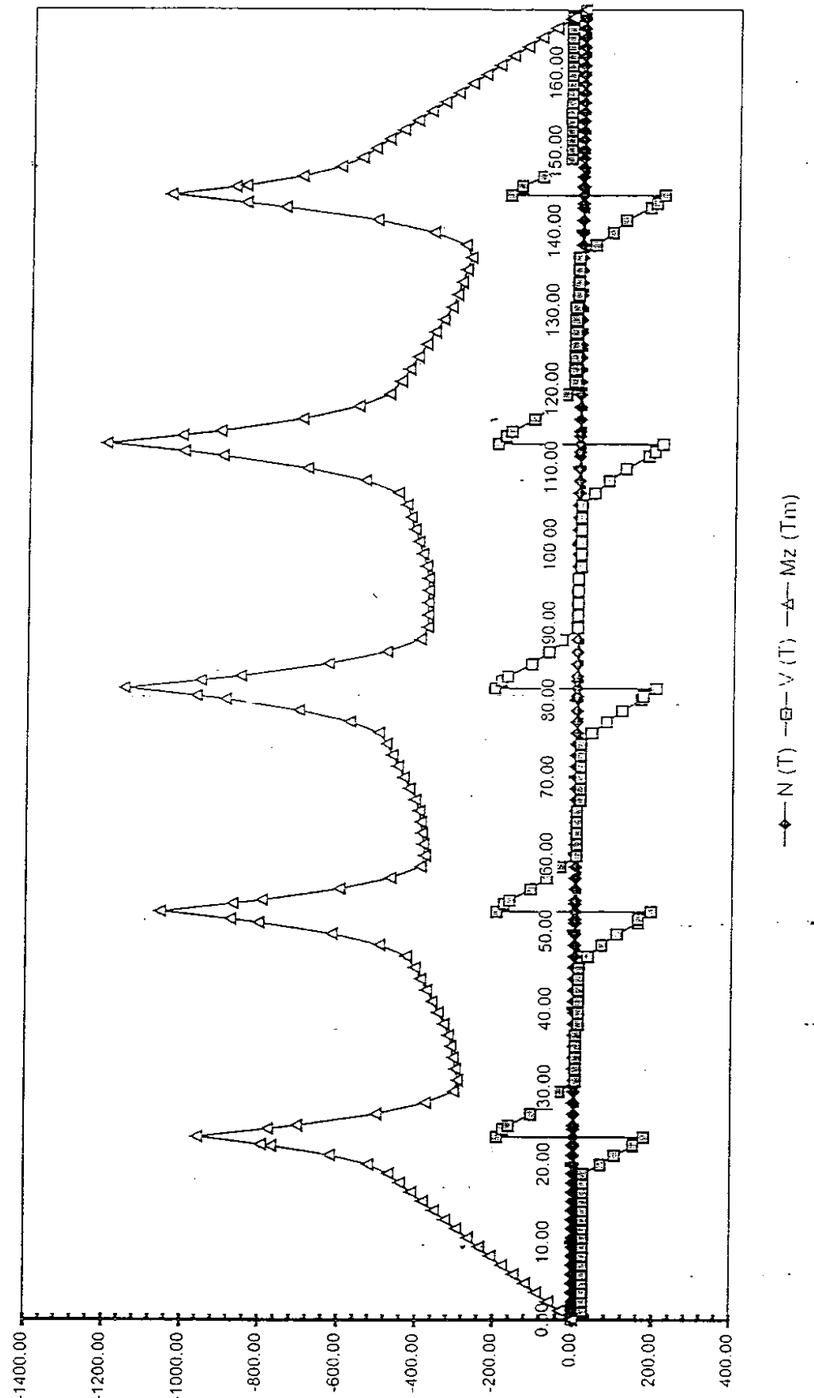
Hipótesis de cálculo:
IPF75B.Mz-

Envolvente IPF75B.Mz-

[1. 1]SC1 ENV_TREN_GENERICO MZ- + [1. 1]SC9 ENV_TREN_GENERICO MZ- + [1. 1]TRÉN30 EnvTrenGen MZ-
Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
121	121	155.08	0.00	-29.93	-386.78
121	122	156.25	0.00	-29.93	-351.61
122	122	156.25	0.00	-29.93	-351.61
122	123	157.43	0.00	-29.93	-316.45
123	123	157.43	0.00	-29.93	-316.45
123	124	158.60	0.00	-29.93	-281.29
124	124	158.60	0.00	-29.93	-281.29
124	125	159.78	0.00	-29.93	-246.12
125	125	159.78	0.00	-29.93	-246.12
125	126	160.95	0.00	-29.93	-210.97
126	126	160.95	0.00	-29.93	-210.97
126	127	162.13	0.00	-29.93	-175.81
127	127	162.13	0.00	-29.93	-175.81
127	128	163.30	0.00	-29.93	-140.64
128	128	163.30	0.00	-29.93	-140.64
128	129	164.48	0.00	-29.93	-105.48
129	129	164.48	0.00	-29.93	-105.48
129	130	165.65	0.00	-29.93	-70.33
130	130	165.65	0.00	-29.93	-70.33
130	131	166.83	0.00	-29.93	-35.16
131	131	166.83	0.00	-29.93	-35.16
131	132	167.00	0.00	-29.93	-29.92
132	132	167.00	0.00	-29.93	-29.92
132	133	168.00	0.00	0.00	0.00

GRÁFICO DE ESFUERZOS



ESFUERZOS PRUEBA DE CARGA

PRUEBA DE CARGA VIADUCTO BORGES BLANQUES

CALCULO TENSIONAL

Hipotesis de calculo

FASE1

PRUEBA CARGA POS IMPARES

[1: 1]PC

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)	
1	1	0.00	0.00	-49.98	0.00	
1	2	1.00	0.00	-49.98	49.98	
2	2	1.00	0.00	-49.98	49.98	
2	3	1.18	0.00	-40.23	57.16	
3	3	1.18	0.00	-40.23	57.16	
3	4	2.35	0.00	-40.23	104.43	
4	4	2.35	0.00	-40.23	104.43	
4	5	3.53	0.00	-40.23	151.70	
5	5	3.53	0.00	-40.23	151.70	
5	6	4.70	0.00	-40.23	198.97	
6	6	4.70	0.00	-40.23	198.97	
6	7	5.88	0.00	-24.48	229.78	
7	7	5.88	0.00	-24.48	229.78	
7	8	7.05	0.00	-24.48	258.54	
8	8	7.05	0.00	-24.48	258.54	
8	9	8.23	0.00	-24.48	287.30	
9	9	8.23	0.00	-24.48	287.30	
9	10	9.40	0.00	-9.79	305.34	
10	10	9.40	0.00	-9.79	305.34	
10	11	10.58	0.00	3.71	309.49	$\leftarrow H_{CV1}^{+}$
11	11	10.58	0.00	3.71	309.49	
11	12	11.75	0.00	3.71	305.14	
12	12	11.75	0.00	3.71	305.14	
12	13	12.93	0.00	3.71	300.78	
13	13	12.93	0.00	3.71	300.78	
13	14	14.10	0.00	17.21	282.79	
14	14	14.10	0.00	17.21	282.79	
14	15	15.28	0.00	31.89	250.46	
15	15	15.28	0.00	31.89	250.46	
15	16	16.45	0.00	31.89	212.98	
16	16	16.45	-0.38	31.89	212.98	
16	17	17.63	-0.38	31.89	175.51	
17	17	17.63	-0.38	31.89	175.51	
17	18	18.80	-0.56	47.64	130.00	
18	18	18.80	0.00	47.64	130.00	
18	19	19.98	0.00	47.64	74.02	
19	19	19.98	0.00	47.64	74.02	
19	20	21.15	0.00	47.64	18.04	
20	20	21.15	0.00	47.64	18.04	
20	21	22.33	0.00	57.39	-40.08	
21	21	22.33	0.00	57.39	-40.08	
21	22	22.50	0.00	57.39	-50.12	
22	22	22.50	0.00	57.39	-50.12	
22	23	23.50	0.00	57.39	-107.52	
23	1023	23.50	0.00	2.51	-107.52	
23	24	24.50	0.00	2.51	-110.03	
24	24	24.50	0.00	2.51	-110.03	
24	25	24.95	0.00	2.51	-111.16	
25	25	24.95	0.00	2.51	-111.16	
25	26	26.40	0.00	2.51	-114.81	
26	26	26.40	0.00	2.51	-114.81	

26	27	27.85	0.00	2.51	-118.45
27	27	27.85	0.00	2.51	-118.45
27	28	29.30	0.00	2.51	-122.10
28	28	29.30	0.02	2.51	-122.10
28	29	30.75	0.02	2.51	-125.75
29	29	30.75	0.02	2.51	-125.75
29	30	32.20	0.02	2.51	-129.39
30	30	32.20	0.00	2.51	-129.39
30	31	33.65	0.00	2.51	-133.04
31	31	33.65	0.00	2.51	-133.04
31	32	35.10	0.00	2.51	-136.68
32	32	35.10	0.00	2.51	-136.68
32	33	36.55	0.00	2.51	-140.33
33	33	36.55	0.00	2.51	-140.33
33	34	38.00	0.00	2.51	-143.98
34	34	38.00	0.00	2.51	-143.98
34	35	39.45	0.00	2.51	-147.62
35	35	39.45	0.00	2.51	-147.62
35	36	40.90	0.00	2.51	-151.27
36	36	40.90	0.00	2.51	-151.27
36	37	42.35	0.00	2.51	-154.92
37	37	42.35	0.00	2.51	-154.92
37	38	43.80	0.00	2.51	-158.56
38	38	43.80	-0.02	2.51	-158.56
38	39	45.25	-0.02	2.51	-162.21
39	39	45.25	-0.02	2.51	-162.21
39	40	46.70	-0.02	2.51	-165.85
40	40	46.70	0.00	2.51	-165.85
40	41	48.15	0.00	2.51	-169.50
41	41	48.15	0.00	2.51	-169.50
41	42	49.60	0.00	2.51	-173.15
42	42	49.60	0.00	2.51	-173.15
42	43	51.05	0.00	2.51	-176.79
43	43	51.05	0.00	2.51	-176.79
43	44	51.50	0.00	2.51	-177.92
44	44	51.50	0.00	2.51	-177.92
44	45	52.50	0.00	2.51	-180.44
45	1045	52.50	0.00	-54.88	-180.44
45	46	53.50	0.00	-54.88	-125.56
46	46	53.50	0.00	-54.88	-125.56
46	47	53.95	0.00	-54.88	-100.86
47	47	53.95	0.00	-54.88	-100.86
47	48	55.40	0.00	-54.88	-21.29
48	48	55.40	0.00	-54.88	-21.29
48	49	56.85	0.00	-45.13	54.44
49	49	56.85	0.00	-45.13	54.44
49	50	58.30	0.00	-45.13	119.88
50	50	58.30	-0.43	-45.13	119.88
50	51	59.75	-0.43	-45.13	185.31
51	51	59.75	-0.43	-45.13	185.31
51	52	61.20	-0.28	-29.38	236.10
52	52	61.20	0.00	-29.38	236.10
52	53	62.65	0.00	-29.38	278.70
53	53	62.65	0.00	-29.38	278.70
53	54	64.10	0.00	-29.38	321.30
54	54	64.10	0.00	-29.38	321.30
54	55	65.55	0.00	-1.19	341.68
55	55	65.55	0.00	-1.19	341.68
55	56	67.00	0.00	-1.19	343.41
56	56	67.00	0.00	-1.19	343.41
56	57	68.45	0.00	-1.19	345.14

← Mav3 +

57	57	68.45	0.00	-1.19	345.14
57	58	69.90	0.00	26.99	328.23
58	58	69.90	0.00	26.99	328.23
58	59	71.35	0.00	26.99	289.10
59	59	71.35	0.00	26.99	289.10
59	60	72.80	0.00	26.99	249.96
60	60	72.80	-0.26	26.99	249.96
60	61	74.25	-0.41	42.74	202.63
61	61	74.25	-0.41	42.74	202.63
61	62	75.70	-0.41	42.74	140.66
62	62	75.70	0.00	42.74	140.66
62	63	77.15	0.00	42.74	78.69
63	63	77.15	0.00	42.74	78.69
63	64	78.60	0.00	52.49	6.43
64	64	78.60	0.00	52.49	6.43
64	65	80.05	0.00	52.49	-69.68
65	65	80.05	0.00	52.49	-69.68
65	66	80.50	0.00	52.49	-93.30
66	66	80.50	0.00	52.49	-93.30
66	67	81.50	0.00	52.49	-145.79
67	1067	81.50	0.00	0.78	-145.79
67	68	82.50	0.00	0.78	-146.57
68	68	82.50	0.00	0.78	-146.57
68	69	83.08	0.00	0.78	-147.02
69	69	83.08	0.00	0.78	-147.02
69	70	84.65	0.00	0.78	-148.24
70	70	84.65	0.00	0.78	-148.24
70	71	86.23	0.00	0.78	-149.47
71	71	86.23	0.00	0.78	-149.47
71	72	87.80	0.00	0.78	-150.70
72	72	87.80	0.01	0.78	-150.70
72	73	89.38	0.01	0.78	-151.92
73	73	89.38	0.01	0.78	-151.92
73	74	90.95	0.01	0.78	-153.15
74	74	90.95	0.00	0.78	-153.15
74	75	92.53	0.00	0.78	-154.37
75	75	92.53	0.00	0.78	-154.37
75	76	94.10	0.00	0.78	-155.60
76	76	94.10	0.00	0.78	-155.60
76	77	95.68	0.00	0.78	-156.82
77	77	95.68	0.00	0.78	-156.82
77	78	97.25	0.00	0.78	-158.05
78	78	97.25	0.00	0.78	-158.05
78	79	98.83	0.00	0.78	-159.27
79	79	98.83	0.00	0.78	-159.27
79	80	100.40	0.00	0.78	-160.50
80	80	100.40	0.00	0.78	-160.50
80	81	101.98	0.00	0.78	-161.73
81	81	101.98	0.00	0.78	-161.73
81	82	103.55	0.00	0.78	-162.95
82	82	103.55	-0.01	0.78	-162.95
82	83	105.13	-0.01	0.78	-164.18
83	83	105.13	-0.01	0.78	-164.18
83	84	106.70	-0.01	0.78	-165.40
84	84	106.70	0.00	0.78	-165.40
84	85	108.28	0.00	0.78	-166.63
85	85	108.28	0.00	0.78	-166.63
85	86	109.85	0.00	0.78	-167.85
86	86	109.85	0.00	0.78	-167.85
86	87	111.43	0.00	0.78	-169.08
87	87	111.43	0.00	0.78	-169.08

87	88	112.00	0.00	0.78	-169.53
88	88	112.00	0.00	0.78	-169.53
88	89	113.00	0.00	0.78	-170.30
89	1089	113.00	0.00	-50.69	-170.30
89	90	114.00	0.00	-50.69	-119.61
90	90	114.00	0.00	-50.69	-119.61
90	91	114.58	0.00	-50.69	-90.46
91	91	114.58	0.00	-50.69	-90.46
91	92	116.15	0.00	-50.69	-10.62
92	92	116.15	0.00	-50.69	-10.62
92	93	117.73	0.00	-50.69	69.22
93	93	117.73	0.00	-50.69	69.22
93	94	119.30	0.00	-40.94	138.39
94	94	119.30	-0.36	-40.94	138.39
94	95	120.88	-0.36	-40.94	202.87
95	95	120.88	-0.36	-40.94	202.87
95	96	122.45	-0.22	-25.19	260.58
96	96	122.45	0.00	-25.19	260.58
96	97	124.03	0.00	-25.19	300.26
97	97	124.03	0.00	-25.19	300.26
97	98	125.60	0.00	-25.19	339.94
98	98	125.60	0.00	-25.19	339.94
98	99	127.18	0.00	-10.51	360.31
99	99	127.18	0.00	-10.51	360.31
99	100	128.75	0.00	2.99	356.20
100	100	128.75	0.00	2.99	356.20
100	101	130.33	0.00	16.49	350.88
101	101	130.33	0.00	16.49	350.88
101	102	131.90	0.00	31.18	321.09
102	102	131.90	0.00	31.18	321.09
102	103	133.48	0.00	31.18	271.99
103	103	133.48	0.00	31.18	271.99
103	104	135.05	0.00	31.18	222.88
104	104	135.05	-0.28	31.18	222.88
104	105	136.63	-0.41	46.93	155.74
105	105	136.63	-0.41	46.93	155.74
105	106	138.20	-0.41	46.93	81.83
106	106	138.20	0.00	46.93	81.83
106	107	139.78	0.00	56.68	3.24
107	107	139.78	0.00	56.68	3.24
107	108	141.35	0.00	56.68	-86.02
108	108	141.35	0.00	56.68	-86.02
108	109	142.93	0.00	56.68	-175.29
109	109	142.93	0.00	56.68	-175.29
109	110	143.50	0.00	56.68	-207.88
110	110	143.50	0.00	56.68	-207.88
110	111	144.50	0.00	56.68	-264.55
111	1111	144.50	0.00	-11.26	-264.55
111	112	145.50	0.00	-11.26	-253.30
112	112	145.50	0.00	-11.26	-253.30
112	113	145.68	0.00	-11.26	-251.33
113	113	145.68	0.00	-11.26	-251.33
113	114	146.85	0.00	-11.26	-238.10
114	114	146.85	0.00	-11.26	-238.10
114	115	148.03	0.00	-11.26	-224.87
115	115	148.03	0.00	-11.26	-224.87
115	116	149.20	0.00	-11.26	-211.64
116	116	149.20	-0.13	-11.26	-211.64
116	117	150.38	-0.13	-11.26	-198.42
117	117	150.38	-0.13	-11.26	-198.42
117	118	151.55	-0.13	-11.26	-185.19
118	118	151.55	0.00	-11.26	-185.19
118	119	152.73	0.00	-11.26	-171.96
119	119	152.73	0.00	-11.26	-171.96
119	120	153.90	0.00	-11.26	-158.73
120	120	153.90	0.00	-11.26	-158.73
120	121	155.08	0.00	-11.26	-145.51
121	121	155.08	0.00	-11.26	-145.51
121	122	156.25	0.00	-11.26	-132.28
122	122	156.25	0.00	-11.26	-132.28
122	123	157.43	0.00	-11.26	-119.05
123	123	157.43	0.00	-11.26	-119.05
123	124	158.60	0.00	-11.26	-105.82
124	124	158.60	0.00	-11.26	-105.82
124	125	159.78	0.00	-11.26	-92.59
125	125	159.78	0.00	-11.26	-92.59
125	126	160.95	0.00	-11.26	-79.37
126	126	160.95	0.00	-11.26	-79.37
126	127	162.13	0.00	-11.26	-66.14
127	127	162.13	0.00	-11.26	-66.14
127	128	163.30	0.00	-11.26	-52.91
128	128	163.30	0.00	-11.26	-52.91
128	129	164.48	0.00	-11.26	-39.68
129	129	164.48	0.00	-11.26	-39.68
129	130	165.65	0.00	-11.26	-26.46
130	130	165.65	0.00	-11.26	-26.46
130	131	166.83	0.00	-11.26	-13.23
131	131	166.83	0.00	-11.26	-13.23
131	132	167.00	0.00	-11.26	-11.26
132	132	167.00	0.00	-11.26	-11.26
132	133	168.00	0.00	-11.26	0.00

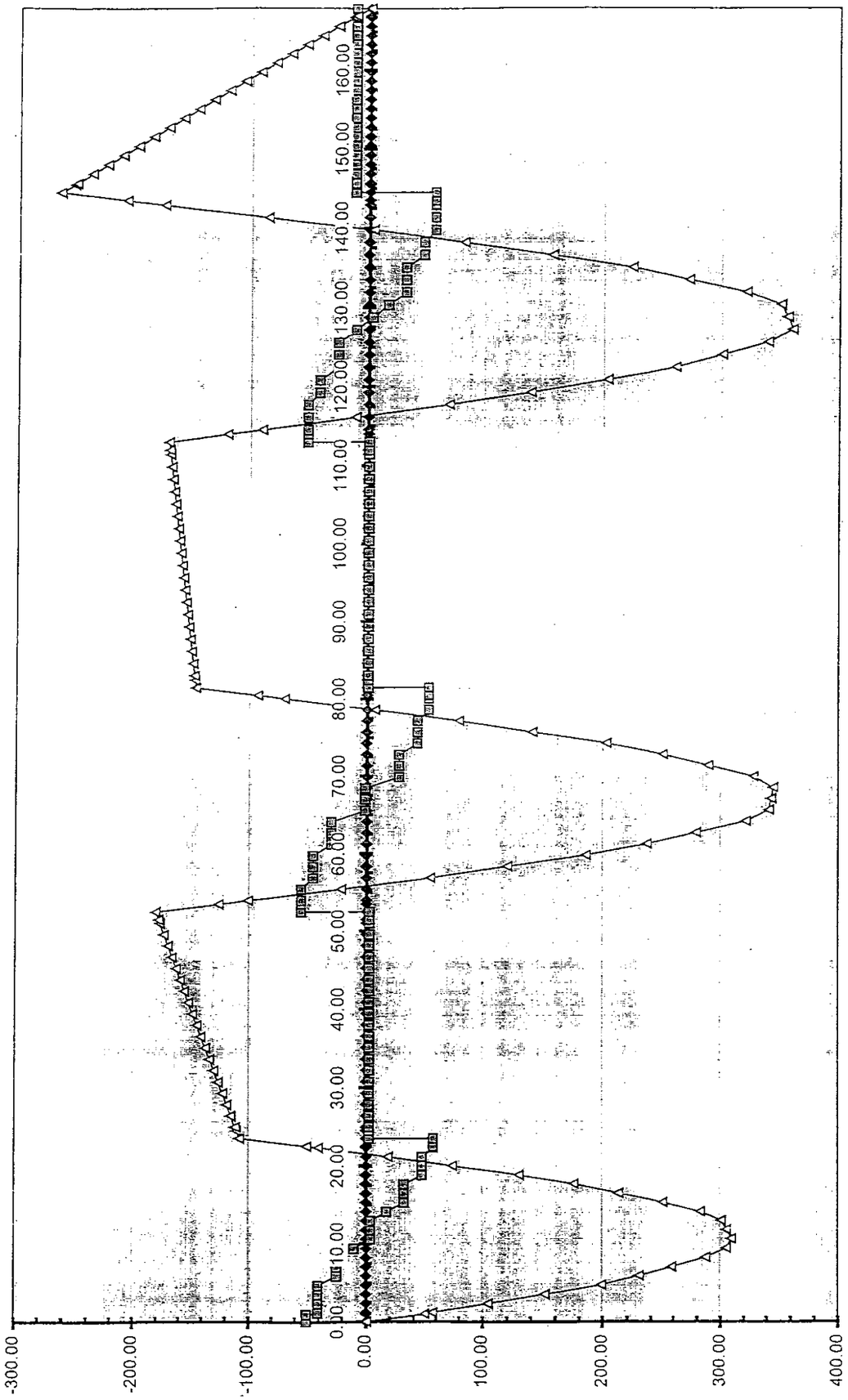
+ Mon 5

PRUEBA CARGA POS PARES

[1; 1]PC2

Coef. exc:

GRÁFICO DE ESFUERZOS (FASE I)



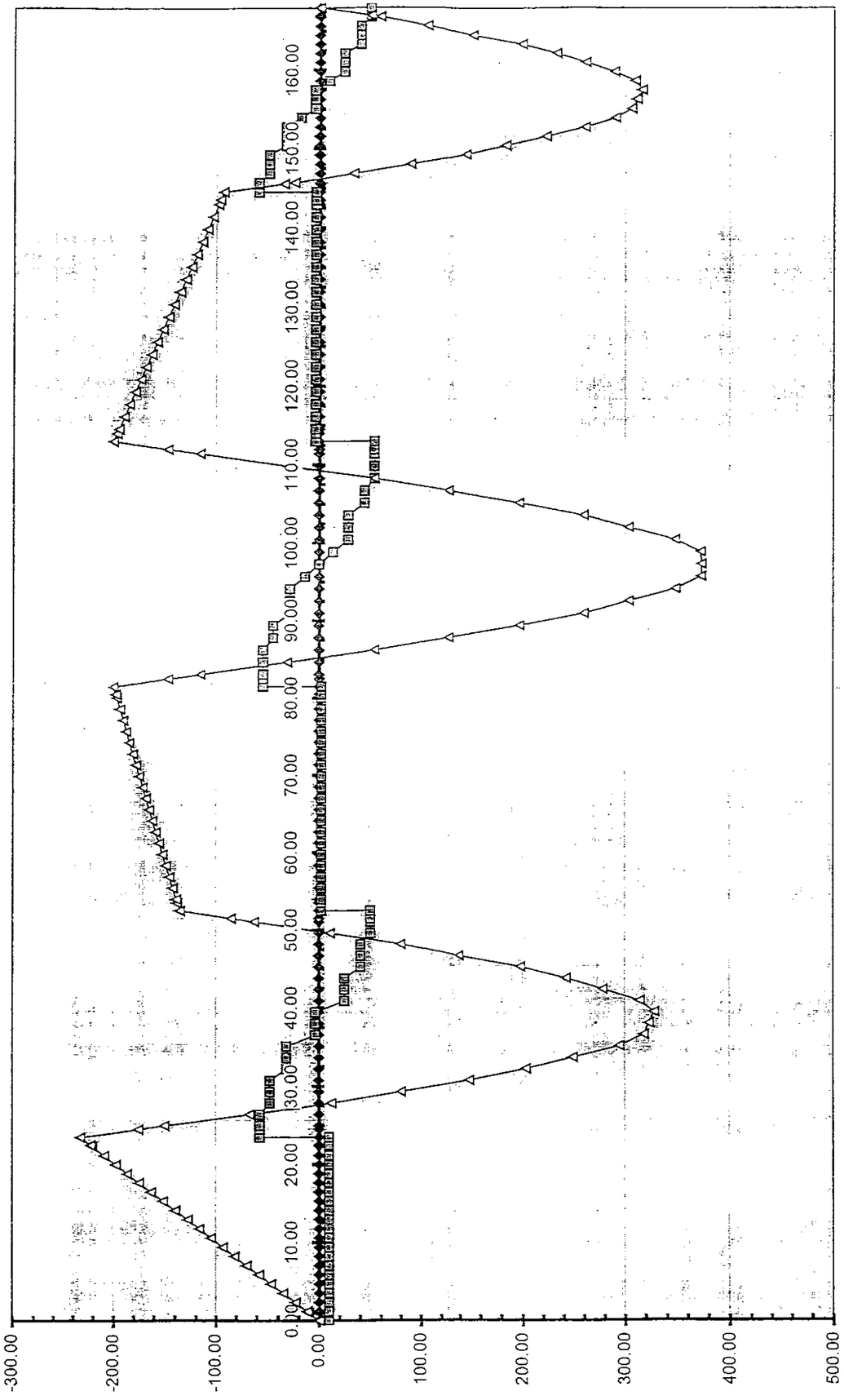
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	9.88	0.00
1	2	1.00	0.00	9.88	-9.88
2	2	1.00	0.00	9.88	-9.88
2	3	1.18	0.00	9.88	-11.61
3	3	1.18	0.00	9.88	-11.61
3	4	2.35	0.00	9.88	-23.23
4	4	2.35	0.00	9.88	-23.23
4	5	3.53	0.00	9.88	-34.84
5	5	3.53	0.00	9.88	-34.84
5	6	4.70	0.00	9.88	-46.46
6	6	4.70	0.00	9.88	-46.46
6	7	5.88	0.00	9.88	-58.07
7	7	5.88	0.00	9.88	-58.07
7	8	7.05	0.00	9.88	-69.69
8	8	7.05	0.00	9.88	-69.69
8	9	8.23	0.00	9.88	-81.30
9	9	8.23	0.00	9.88	-81.30
9	10	9.40	0.00	9.88	-92.91
10	10	9.40	0.00	9.88	-92.91
10	11	10.58	0.00	9.88	-104.53
11	11	10.58	0.00	9.88	-104.53
11	12	11.75	0.00	9.88	-116.14
12	12	11.75	0.00	9.88	-116.14
12	13	12.93	0.00	9.88	-127.76
13	13	12.93	0.00	9.88	-127.76
13	14	14.10	0.00	9.88	-139.37
14	14	14.10	0.00	9.88	-139.37
14	15	15.28	0.00	9.88	-150.98
15	15	15.28	0.00	9.88	-150.98
15	16	16.45	0.00	9.88	-162.60
16	16	16.45	-0.12	9.88	-162.60
16	17	17.63	-0.12	9.88	-174.21
17	17	17.63	-0.12	9.88	-174.21
17	18	18.80	-0.12	9.88	-185.83
18	18	18.80	0.00	9.88	-185.83
18	19	19.98	0.00	9.88	-197.44
19	19	19.98	0.00	9.88	-197.44
19	20	21.15	0.00	9.88	-209.06
20	20	21.15	0.00	9.88	-209.06
20	21	22.33	0.00	9.88	-220.67
21	21	22.33	0.00	9.88	-220.67
21	22	22.50	0.00	9.88	-222.40
22	22	22.50	0.00	9.88	-222.40
22	23	23.50	0.00	9.88	-232.28
23	1023	23.50	0.00	-57.03	-232.28
23	24	24.50	0.00	-57.03	-175.25
24	24	24.50	0.00	-57.03	-175.25
24	25	24.95	0.00	-57.03	-149.59
25	25	24.95	0.00	-57.03	-149.59
25	26	26.40	0.00	-57.03	-66.89
26	26	26.40	0.00	-57.03	-66.89

26	27	27.85	0.00	-47.28	11.96
27	27	27.85	0.00	-47.28	11.96
27	28	29.30	0.00	-47.28	80.52
28	28	29.30	-0.45	-47.28	80.52
28	29	30.75	-0.45	-47.28	149.08
29	29	30.75	-0.45	-47.28	149.08
29	30	32.20	-0.30	-31.53	202.99
30	30	32.20	0.00	-31.53	202.99
30	31	33.65	0.00	-31.53	248.72
31	31	33.65	0.00	-31.53	248.72
31	32	35.10	0.00	-31.53	294.44
32	32	35.10	0.00	-31.53	294.44
32	33	36.55	0.00	-3.35	317.94
33	33	36.55	0.00	-3.35	317.94
33	34	38.00	0.00	-3.35	322.79
34	34	38.00	0.00	-3.35	322.79
34	35	39.45	0.00	-3.35	327.65 ← M_{cv2}^{+}
35	35	39.45	0.00	-3.35	327.65
35	36	40.90	0.00	24.84	313.86
36	36	40.90	0.00	24.84	313.86
36	37	42.35	0.00	24.84	277.84
37	37	42.35	0.00	24.84	277.84
37	38	43.80	0.00	24.84	241.83
38	38	43.80	-0.24	24.84	241.83
38	39	45.25	-0.39	40.59	197.63
39	39	45.25	-0.39	40.59	197.63
39	40	46.70	-0.39	40.59	138.78
40	40	46.70	0.00	40.59	138.78
40	41	48.15	0.00	40.59	79.93
41	41	48 15	0.00	40.59	79.93
41	42	49.60	0.00	50.34	10.79
42	42	49.60	0.00	50.34	10.79
42	43	51.05	0.00	50.34	-62.20
43	43	51.05	0.00	50.34	-62.20
43	44	51.50	0.00	50.34	-84.85
44	44	51.50	0.00	50.34	-84.85
44	45	52.50	0.00	50.34	-135.19
45	1045	52.50	0.00	2.23	-135.19
45	46	53.50	0.00	2.23	-137.42
46	46	53.50	0.00	2.23	-137.42
46	47	53.95	0.00	2.23	-138.42
47	47	53.95	0.00	2.23	-138.42
47	48	55.40	0.00	2.23	-141.66
48	48	55.40	0.00	2.23	-141.66
48	49	56.85	0.00	2.23	-144.90
49	49	56.85	0.00	2.23	-144.90
49	50	58.30	0.00	2.23	-148.13
50	50	58.30	0.02	2.23	-148.13
50	51	59.75	0.02	2.23	-151.37
51	51	59.75	0.02	2.23	-151.37
51	52	61.20	0.02	2.23	-154.60
52	52	61.20	0.00	2.23	-154.60
52	53	62.65	0.00	2.23	-157.84
53	53	62.65	0.00	2.23	-157.84
53	54	64.10	0.00	2.23	-161.08
54	54	64.10	0.00	2.23	-161.08
54	55	65.55	0.00	2.23	-164.31
55	55	65.55	0.00	2.23	-164.31
55	56	67.00	0.00	2.23	-167.55
56	56	67.00	0.00	2.23	-167.55
56	57	68.45	0.00	2.23	-170.78
57	57	68.45	0.00	2.23	-170.78
57	58	69.90	0.00	2.23	-174.02
58	58	69.90	0.00	2.23	-174.02
58	59	71.35	0.00	2.23	-177.25
59	59	71.35	0.00	2.23	-177.25
59	60	72.80	0.00	2.23	-180.49
60	60	72.80	-0.02	2.23	-180.49
60	61	74.25	-0.02	2.23	-183.73
61	61	74.25	-0.02	2.23	-183.73
61	62	75.70	-0.02	2.23	-186.96
62	62	75.70	0.00	2.23	-186.96
62	63	77.15	0.00	2.23	-190.20
63	63	77.15	0.00	2.23	-190.20
63	64	78.60	0.00	2.23	-193.43
64	64	78.60	0.00	2.23	-193.43
64	65	80.05	0.00	2.23	-196.67
65	65	80.05	0.00	2.23	-196.67
65	66	80.50	0.00	2.23	-197.67
66	66	80.50	0.00	2.23	-197.67
66	67	81.50	0.00	2.23	-199.90
67	1067	81.50	0.00	-53.67	-199.90
67	68	82.50	0.00	-53.67	-146.23
68	68	82.50	0.00	-53.67	-146.23
68	69	83.08	0.00	-53.67	-115.37
69	69	83.08	0.00	-53.67	-115.37
69	70	84.65	0.00	-53.67	-30.83
70	70	84.65	0.00	-53.67	-30.83
70	71	86.23	0.00	-53.67	53.71
71	71	86.23	0.00	-53.67	53.71
71	72	87.80	0.00	-43.92	127.57
72	72	87.80	-0.39	-43.92	127.57
72	73	89.38	-0.39	-43.92	196.75
73	73	89.38	-0.39	-43.92	196.75
73	74	90.95	-0.25	-28.17	259.16
74	74	90.95	0.00	-28.17	259.16
74	75	92.53	0.00	-28.17	303.54
75	75	92.53	0.00	-28.17	303.54
75	76	94.10	0.00	-28.17	347.91
76	76	94.10	0.00	-28.17	347.91
76	77	95.68	0.00	-13.49	372.97
77	77	95.68	0.00	-13.49	372.97
77	78	97.25	0.00	0.01	373.57 ← M_{cv4}^{+}
78	78	97.25	0.00	0.01	373.57
78	79	98.83	0.00	13.51	372.94
79	79	98.83	0.00	13.51	372.94
79	80	100.40	0.00	28.20	347.85
80	80	100.40	0.00	28.20	347.85
80	81	101.98	0.00	28.20	303.44
81	81	101.98	0.00	28.20	303.44
81	82	103.55	0.00	28.20	259.03
82	82	103.55	-0.25	28.19	259.03
82	83	105.13	-0.39	43.94	196.59
83	83	105.13	-0.39	43.94	196.59
83	84	106.70	-0.39	43.94	127.38
84	84	106.70	0.00	43.95	127.38
84	85	108.28	0.00	53.70	53.48
85	85	108.28	0.00	53.70	53.48
85	86	109.85	0.00	53.70	-31.09
86	86	109.85	0.00	53.70	-31.09
86	87	111.43	0.00	53.70	-115.66
87	87	111.43	0.00	53.70	-115.66

87	88	112.00	0.00	53.70	-146.54
88	88	112.00	0.00	53.70	-146.54
88	89	113.00	0.00	53.70	-200.23
89	1089	113.00	0.00	-3.43	-200.23
89	90	114.00	0.00	-3.43	-196.79
90	90	114.00	0.00	-3.43	-196.79
90	91	114.58	0.00	-3.43	-194.82
91	91	114.58	0.00	-3.43	-194.82
91	92	116.15	0.00	-3.43	-189.42
92	92	116.15	0.00	-3.43	-189.42
92	93	117.73	0.00	-3.43	-184.01
93	93	117.73	0.00	-3.43	-184.01
93	94	119.30	0.00	-3.43	-178.61
94	94	119.30	-0.03	-3.43	-178.61
94	95	120.88	-0.03	-3.43	-173.21
95	95	120.88	-0.03	-3.43	-173.21
95	96	122.45	-0.03	-3.43	-167.80
96	96	122.45	0.00	-3.43	-167.80
96	97	124.03	0.00	-3.43	-162.40
97	97	124.03	0.00	-3.43	-162.40
97	98	125.60	0.00	-3.43	-157.00
98	98	125.60	0.00	-3.43	-157.00
98	99	127.18	0.00	-3.43	-151.59
99	99	127.18	0.00	-3.43	-151.59
99	100	128.75	0.00	-3.43	-146.19
100	100	128.75	0.00	-3.43	-146.19
100	101	130.33	0.00	-3.43	-140.79
101	101	130.33	0.00	-3.43	-140.79
101	102	131.90	0.00	-3.43	-135.38
102	102	131.90	0.00	-3.43	-135.38
102	103	133.48	0.00	-3.43	-129.98
103	103	133.48	0.00	-3.43	-129.98
103	104	135.05	0.00	-3.43	-124.58
104	104	135.05	0.03	-3.43	-124.58
104	105	136.63	0.03	-3.43	-119.17
105	105	136.63	0.03	-3.43	-119.17
105	106	138.20	0.03	-3.43	-113.77
106	106	138.20	0.00	-3.43	-113.77
106	107	139.78	0.00	-3.43	-108.36
107	107	139.78	0.00	-3.43	-108.36
107	108	141.35	0.00	-3.43	-102.96
108	108	141.35	0.00	-3.43	-102.96
108	109	142.93	0.00	-3.43	-97.56
109	109	142.93	0.00	-3.43	-97.56
109	110	143.50	0.00	-3.43	-95.58
110	110	143.50	0.00	-3.43	-95.58
110	111	144.50	0.00	-3.43	-92.15
111	1111	144.50	0.00	-57.80	-92.15
111	112	145.50	0.00	-57.80	-34.35
112	112	145.50	0.00	-57.80	-34.35
112	113	145.68	0.00	-57.80	-24.24
113	113	145.68	0.00	-57.80	-24.24
113	114	146.85	0.00	-48.05	32.51
114	114	146.85	0.00	-48.05	32.51
114	115	148.03	0.00	-48.05	88.97
115	115	148.03	0.00	-48.05	88.97
115	116	149.20	0.00	-48.05	145.43
116	116	149.20	-0.57	-48.05	145.43
116	117	150.38	-0.38	-32.30	183.88
117	117	150.38	-0.38	-32.30	183.88
117	118	151.55	-0.38	-32.30	221.84
118	118	151.55	0.00	-32.30	221.84
118	119	152.73	0.00	-32.30	259.79
119	119	152.73	0.00	-32.30	259.79
119	120	153.90	0.00	-17.61	289.81
120	120	153.90	0.00	-17.61	289.81
120	121	155.08	0.00	-4.11	305.71
121	121	155.08	0.00	-4.11	305.71
121	122	156.25	0.00	-4.11	310.55
122	122	156.25	0.00	-4.11	310.55
122	123	157.43	0.00	-4.11	315.38
123	123	157.43	0.00	-4.11	315.38
123	124	158.60	0.00	9.39	309.15
124	124	158.60	0.00	9.39	309.15
124	125	159.78	0.00	24.07	288.79
125	125	159.78	0.00	24.07	288.79
125	126	160.95	0.00	24.07	260.51
126	126	160.95	0.00	24.07	260.51
126	127	162.13	0.00	24.07	232.23
127	127	162.13	0.00	24.07	232.23
127	128	163.30	0.00	39.82	198.91
128	128	163.30	0.00	39.82	198.91
128	129	164.48	0.00	39.82	152.12
129	129	164.48	0.00	39.82	152.12
129	130	165.65	0.00	39.82	105.33
130	130	165.65	0.00	39.82	105.33
130	131	166.83	0.00	49.57	58.25
131	131	166.83	0.00	49.57	58.25
131	132	167.00	0.00	49.57	49.57
132	132	167.00	0.00	49.57	49.57
132	133	168.00	0.00	49.57	0.00

← Mcr6

GRÁFICO DE ESFUERZOS (FASE II)



CALCULO TENSIONAL

Hipótesis de calculo:

FASE III

PRUEBA CARGA PILA 1

[1: 1]PC3

Coef. exc:

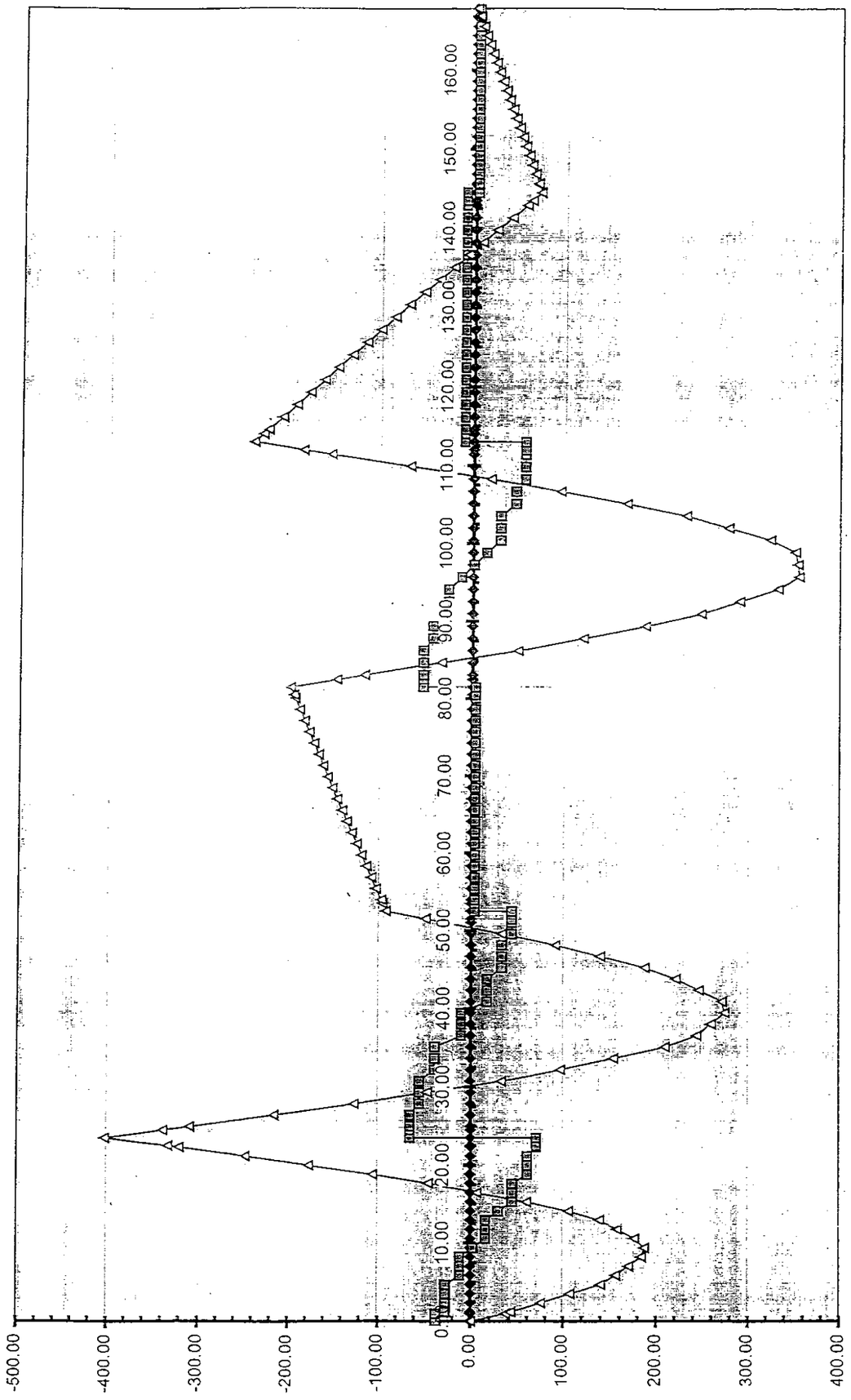
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-37.44	0.00
1	2	1.00	0.00	-37.44	37.44
2	2	1.00	0.00	-37.44	37.44
2	3	1.18	0.00	-27.69	42.43
3	3	1.18	0.00	-27.69	42.43
3	4	2.35	0.00	-27.69	74.96
4	4	2.35	0.00	-27.69	74.96
4	5	3.53	0.00	-27.69	107.50
5	5	3.53	0.00	-27.69	107.50
5	6	4.70	0.00	-27.69	140.03
6	6	4.70	0.00	-27.69	140.03
6	7	5.88	0.00	-11.94	156.11
7	7	5.88	0.00	-11.94	156.11
7	8	7.05	0.00	-11.94	170.14
8	8	7.05	0.00	-11.94	170.14
8	9	8.23	0.00	-11.94	184.17
9	9	8.23	0.00	-11.94	184.17
9	10	9.40	0.00	2.75	187.47
10	10	9.40	0.00	2.75	187.47
10	11	10.58	0.00	16.25	176.89
11	11	10.58	0.00	16.25	176.89
11	12	11.75	0.00	16.25	157.80
12	12	11.75	0.00	16.25	157.80
12	13	12.93	0.00	16.25	138.71
13	13	12.93	0.00	16.25	138.71
13	14	14.10	0.00	29.75	105.99
14	14	14.10	0.00	29.75	105.99
14	15	15.28	0.00	44.43	58.92
15	15	15.28	0.00	44.43	58.92
15	16	16.45	0.00	44.43	6.71
16	16	16.45	-0.53	44.43	6.71
16	17	17.63	-0.53	44.43	-45.49
17	17	17.63	-0.53	44.43	-45.49
17	18	18.80	-0.71	60.18	-105.73
18	18	18.80	0.00	60.18	-105.73
18	19	19.98	0.00	60.18	-176.45
19	19	19.98	0.00	60.18	-176.45
19	20	21.15	0.00	60.18	-247.16
20	20	21.15	0.00	60.18	-247.16
20	21	22.33	0.00	69.93	-320.02
21	21	22.33	0.00	69.93	-320.02
21	22	22.50	0.00	69.93	-332.26
22	22	22.50	0.00	69.93	-332.26
22	23	23.50	0.00	69.93	-402.19
23	1023	23.50	0.00	-64.37	-402.19
23	24	24.50	0.00	-64.37	-337.82
24	24	24.50	0.00	-64.37	-337.82
24	25	24.95	0.00	-64.37	-308.85
25	25	24.95	0.00	-64.37	-308.85
25	26	26.40	0.00	-64.37	-215.51
26	26	26.40	0.00	-64.37	-215.51

← M_{P1}^{-} $\begin{cases} Q^{-} = 69.93^{t} \\ Q^{+} = -64.37^{t} \end{cases}$

26	27	27.85	0.00	-54.62	-126.03
27	27	27.85	0.00	-54.62	-126.03
27	28	29.30	0.00	-54.62	-46.83
28	28	29.30	-0.52	-54.62	-46.83
28	29	30.75	-0.52	-54.62	32.37
29	29	30.75	-0.52	-54.62	32.37
29	30	32.20	-0.37	-38.87	96.92
30	30	32.20	0.00	-38.87	96.92
30	31	33.65	0.00	-38.87	153.28
31	31	33.65	0.00	-38.87	153.28
31	32	35.10	0.00	-38.87	209.65
32	32	35.10	0.00	-38.87	209.65
32	33	36.55	0.00	-10.69	243.78
33	33	36.55	0.00	-10.69	243.78
33	34	38.00	0.00	-10.69	259.27
34	34	38.00	0.00	-10.69	259.27
34	35	39.45	0.00	-10.69	274.77
35	35	39.45	0.00	-10.69	274.77
35	36	40.90	0.00	17.50	271.62
36	36	40.90	0.00	17.50	271.62
36	37	42.35	0.00	17.50	246.24
37	37	42.35	0.00	17.50	246.24
37	38	43.80	0.00	17.50	220.87
38	38	43.80	-0.17	17.50	220.87
38	39	45.25	-0.32	33.25	187.30
39	39	45.25	-0.32	33.25	187.30
39	40	46.70	-0.32	33.25	139.09
40	40	46.70	0.00	33.25	139.09
40	41	48.15	0.00	33.25	90.88
41	41	48.15	0.00	33.25	90.88
41	42	49.60	0.00	43.00	32.38
42	42	49.60	0.00	43.00	32.38
42	43	51.05	0.00	43.00	-29.97
43	43	51.05	0.00	43.00	-29.97
43	44	51.50	0.00	43.00	-49.32
44	44	51.50	0.00	43.00	-49.32
44	45	52.50	0.00	43.00	-92.32
45	1045	52.50	0.00	3.70	-92.32
45	46	53.50	0.00	3.70	-96.01
46	46	53.50	0.00	3.70	-96.01
46	47	53.95	0.00	3.70	-97.68
47	47	53.95	0.00	3.70	-97.68
47	48	55.40	0.00	3.70	-103.03
48	48	55.40	0.00	3.70	-103.03
48	49	56.85	0.00	3.70	-108.39
49	49	56.85	0.00	3.70	-108.39
49	50	58.30	0.00	3.70	-113.75
50	50	58.30	0.04	3.69	-113.75
50	51	59.75	0.04	3.69	-119.11
51	51	59.75	0.04	3.69	-119.11
51	52	61.20	0.04	3.69	-124.47
52	52	61.20	0.00	3.70	-124.47
52	53	62.65	0.00	3.70	-129.82
53	53	62.65	0.00	3.70	-129.82
53	54	64.10	0.00	3.70	-135.18
54	54	64.10	0.00	3.70	-135.18
54	55	65.55	0.00	3.70	-140.54
55	55	65.55	0.00	3.70	-140.54
55	56	67.00	0.00	3.70	-145.90
56	56	67.00	0.00	3.70	-145.90
56	57	68.45	0.00	3.70	-151.25
57	57	68.45	0.00	3.70	-151.25
57	58	69.90	0.00	3.70	-156.61
58	58	69.90	0.00	3.70	-156.61
58	59	71.35	0.00	3.70	-161.97
59	59	71.35	0.00	3.70	-161.97
59	60	72.80	0.00	3.70	-167.33
60	60	72.80	-0.04	3.69	-167.33
60	61	74.25	-0.04	3.69	-172.68
61	61	74.25	-0.04	3.69	-172.68
61	62	75.70	-0.04	3.69	-178.04
62	62	75.70	0.00	3.70	-178.04
62	63	77.15	0.00	3.70	-183.40
63	63	77.15	0.00	3.70	-183.40
63	64	78.60	0.00	3.70	-188.76
64	64	78.60	0.00	3.70	-188.76
64	65	80.05	0.00	3.70	-194.12
65	65	80.05	0.00	3.70	-194.12
65	66	80.50	0.00	3.70	-195.78
66	66	80.50	0.00	3.70	-195.78
66	67	81.50	0.00	3.70	-199.47
67	1067	81.50	0.00	-52.36	-199.47
67	68	82.50	0.00	-52.36	-147.12
68	68	82.50	0.00	-52.36	-147.12
68	69	83.08	0.00	-52.36	-117.01
69	69	83.08	0.00	-52.36	-117.01
69	70	84.65	0.00	-52.36	-34.55
70	70	84.65	0.00	-52.36	-34.55
70	71	86.23	0.00	-52.36	47.91
71	71	86.23	0.00	-52.36	47.91
71	72	87.80	0.00	-42.61	119.69
72	72	87.80	-0.38	-42.60	119.69
72	73	89.38	-0.38	-42.60	186.80
73	73	89.38	-0.38	-42.60	186.80
73	74	90.95	-0.24	-26.86	247.13
74	74	90.95	0.00	-26.86	247.13
74	75	92.53	0.00	-26.86	289.43
75	75	92.53	0.00	-26.86	289.43
75	76	94.10	0.00	-26.86	331.73
76	76	94.10	0.00	-26.86	331.73
76	77	95.68	0.00	-12.17	354.71
77	77	95.68	0.00	-12.17	354.71
77	78	97.25	0.00	1.33	353.23
78	78	97.25	0.00	1.33	353.23
78	79	98.83	0.00	14.83	350.53
79	79	98.83	0.00	14.83	350.53
79	80	100.40	0.00	29.51	323.36
80	80	100.40	0.00	29.51	323.36
80	81	101.98	0.00	29.51	276.87
81	81	101.98	0.00	29.51	276.87
81	82	103.55	0.00	29.51	230.39
82	82	103.55	-0.26	29.51	230.39
82	83	105.13	-0.40	45.26	165.87
83	83	105.13	-0.40	45.26	165.87
83	84	106.70	-0.40	45.26	94.58
84	84	106.70	0.00	45.26	94.58
84	85	108.28	0.00	55.01	18.61
85	85	108.28	0.00	55.01	18.61
85	86	109.85	0.00	55.01	-68.04
86	86	109.85	0.00	55.01	-68.04
86	87	111.43	0.00	55.01	-154.68
87	87	111.43	0.00	55.01	-154.68

87	88	112.00	0.00	55.01	-186.32
88	88	112.00	0.00	55.01	-186.32
88	89	113.00	0.00	55.01	-241.33
89	1089	113.00	0.00	-9.88	-241.33
89	90	114.00	0.00	-9.88	-231.45
90	90	114.00	0.00	-9.88	-231.45
90	91	114.58	0.00	-9.88	-225.77
91	91	114.58	0.00	-9.88	-225.77
91	92	116.15	0.00	-9.88	-210.21
92	92	116.15	0.00	-9.88	-210.21
92	93	117.73	0.00	-9.88	-194.64
93	93	117.73	0.00	-9.88	-194.64
93	94	119.30	0.00	-9.88	-179.08
94	94	119.30	-0.09	-9.88	-179.08
94	95	120.88	-0.09	-9.88	-163.52
95	95	120.88	-0.09	-9.88	-163.52
95	96	122.45	-0.09	-9.88	-147.96
96	96	122.45	0.00	-9.88	-147.96
96	97	124.03	0.00	-9.88	-132.40
97	97	124.03	0.00	-9.88	-132.40
97	98	125.60	0.00	-9.88	-116.84
98	98	125.60	0.00	-9.88	-116.84
98	99	127.18	0.00	-9.88	-101.27
99	99	127.18	0.00	-9.88	-101.27
99	100	128.75	0.00	-9.88	-85.71
100	100	128.75	0.00	-9.88	-85.71
100	101	130.33	0.00	-9.88	-70.15
101	101	130.33	0.00	-9.88	-70.15
101	102	131.90	0.00	-9.88	-54.59
102	102	131.90	0.00	-9.88	-54.59
102	103	133.48	0.00	-9.88	-39.03
103	103	133.48	0.00	-9.88	-39.03
103	104	135.05	0.00	-9.88	-23.46
104	104	135.05	0.09	-9.88	-23.46
104	105	136.63	0.09	-9.88	-7.90
105	105	136.63	0.09	-9.88	-7.90
105	106	138.20	0.09	-9.88	7.66
106	106	138.20	0.00	-9.88	7.66
106	107	139.78	0.00	-9.88	23.22
107	107	139.78	0.00	-9.88	23.22
107	108	141.35	0.00	-9.88	38.78
108	108	141.35	0.00	-9.88	38.78
108	109	142.93	0.00	-9.88	54.35
109	109	142.93	0.00	-9.88	54.35
109	110	143.50	0.00	-9.88	60.03
110	110	143.50	0.00	-9.88	60.03
110	111	144.50	0.00	-9.88	69.91
111	1111	144.50	0.00	2.97	69.91
111	112	145.50	0.00	2.97	66.93
112	112	145.50	0.00	2.97	66.93
112	113	145.68	0.00	2.97	66.41
113	113	145.68	0.00	2.97	66.41
113	114	146.85	0.00	2.97	62.92
114	114	146.85	0.00	2.97	62.92
114	115	148.03	0.00	2.97	59.42
115	115	148.03	0.00	2.97	59.42
115	116	149.20	0.00	2.97	55.93
116	116	149.20	0.04	2.97	55.93
116	117	150.38	0.04	2.97	52.43
117	117	150.38	0.04	2.97	52.43
117	118	151.55	0.04	2.97	48.94
118	118	151.55	0.00	2.97	48.94
118	119	152.73	0.00	2.97	45.44
119	119	152.73	0.00	2.97	45.44
119	120	153.90	0.00	2.97	41.94
120	120	153.90	0.00	2.97	41.94
120	121	155.08	0.00	2.97	38.45
121	121	155.08	0.00	2.97	38.45
121	122	156.25	0.00	2.97	34.95
122	122	156.25	0.00	2.97	34.95
122	123	157.43	0.00	2.97	31.46
123	123	157.43	0.00	2.97	31.46
123	124	158.60	0.00	2.97	27.96
124	124	158.60	0.00	2.97	27.96
124	125	159.78	0.00	2.97	24.47
125	125	159.78	0.00	2.97	24.47
125	126	160.95	0.00	2.97	20.97
126	126	160.95	0.00	2.97	20.97
126	127	162.13	0.00	2.97	17.48
127	127	162.13	0.00	2.97	17.48
127	128	163.30	0.00	2.97	13.98
128	128	163.30	0.00	2.97	13.98
128	129	164.48	0.00	2.97	10.49
129	129	164.48	0.00	2.97	10.49
129	130	165.65	0.00	2.97	6.99
130	130	165.65	0.00	2.97	6.99
130	131	166.83	0.00	2.97	3.50
131	131	166.83	0.00	2.97	3.50
131	132	167.00	0.00	2.97	2.97
132	132	167.00	0.00	2.97	2.97
132	133	168.00	0.00	2.97	0.00

GRÁFICO DE ESFUERZOS (FASE III)



CALCULO TENSIONAL

Hipotesis de calculo

FASE IV

PC PILA 2

[1: 1]PC4

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	6.37	0.00
1	2	1.00	0.00	6.37	-6.37
2	2	1.00	0.00	6.37	-6.37
2	3	1.18	0.00	6.37	-7.48
3	3	1.18	0.00	6.37	-7.48
3	4	2.35	0.00	6.37	-14.97
4	4	2.35	0.00	6.37	-14.97
4	5	3.53	0.00	6.37	-22.45
5	5	3.53	0.00	6.37	-22.45
5	6	4.70	0.00	6.37	-29.94
6	6	4.70	0.00	6.37	-29.94
6	7	5.88	0.00	6.37	-37.42
7	7	5.88	0.00	6.37	-37.42
7	8	7.05	0.00	6.37	-44.91
8	8	7.05	0.00	6.37	-44.91
8	9	8.23	0.00	6.37	-52.39
9	9	8.23	0.00	6.37	-52.39
9	10	9.40	0.00	6.37	-59.87
10	10	9.40	0.00	6.37	-59.87
10	11	10.58	0.00	6.37	-67.36
11	11	10.58	0.00	6.37	-67.36
11	12	11.75	0.00	6.37	-74.84
12	12	11.75	0.00	6.37	-74.84
12	13	12.93	0.00	6.37	-82.33
13	13	12.93	0.00	6.37	-82.33
13	14	14.10	0.00	6.37	-89.81
14	14	14.10	0.00	6.37	-89.81
14	15	15.28	0.00	6.37	-97.29
15	15	15.28	0.00	6.37	-97.29
15	16	16.45	0.00	6.37	-104.78
16	16	16.45	-0.08	6.37	-104.78
16	17	17.63	-0.08	6.37	-112.26
17	17	17.63	-0.08	6.37	-112.26
17	18	18.80	-0.08	6.37	-119.75
18	18	18.80	0.00	6.37	-119.75
18	19	19.98	0.00	6.37	-127.23
19	19	19.98	0.00	6.37	-127.23
19	20	21.15	0.00	6.37	-134.72
20	20	21.15	0.00	6.37	-134.72
20	21	22.33	0.00	6.37	-142.20
21	21	22.33	0.00	6.37	-142.20
21	22	22.50	0.00	6.37	-143.31
22	22	22.50	0.00	6.37	-143.31
22	23	23.50	0.00	6.37	-149.68
23	1023	23.50	0.00	-43.99	-149.68
23	24	24.50	0.00	-43.99	-105.69
24	24	24.50	0.00	-43.99	-105.69
24	25	24.95	0.00	-43.99	-85.90
25	25	24.95	0.00	-43.99	-85.90
25	26	26.40	0.00	-43.99	-22.11
26	26	26.40	0.00	-43.99	-22.11

26	27	27.85	0.00	-34.24	37.82
27	27	27.85	0.00	-34.24	37.82
27	28	29.30	0.00	-34.24	87.47
28	28	29.30	-0.33	-34.24	87.47
28	29	30.75	-0.33	-34.24	137.12
29	29	30.75	-0.33	-34.24	137.12
29	30	32.20	-0.18	-18.49	172.12
30	30	32.20	0.00	-18.49	172.12
30	31	33.65	0.00	-18.49	198.93
31	31	33.65	0.00	-18.49	198.93
31	32	35.10	0.00	-18.49	225.74
32	32	35.10	0.00	-18.49	225.74
32	33	36.55	0.00	9.69	230.32
33	33	36.55	0.00	9.69	230.32
33	34	38.00	0.00	9.69	216.27
34	34	38.00	0.00	9.69	216.27
34	35	39.45	0.00	9.69	202.21
35	35	39.45	0.00	9.69	202.21
35	36	40.90	0.00	37.88	169.51
36	36	40.90	0.00	37.88	169.51
36	37	42.35	0.00	37.88	114.58
37	37	42.35	0.00	37.88	114.58
37	38	43.80	0.00	37.88	59.66
38	38	43.80	-0.36	37.88	59.66
38	39	45.25	-0.51	53.63	-3.46
39	39	45.25	-0.51	53.63	-3.46
39	40	46.70	-0.51	53.63	-81.22
40	40	46.70	0.00	53.63	-81.22
40	41	48.15	0.00	53.63	-158.99
41	41	48.15	0.00	53.63	-158.99
41	42	49.60	0.00	63.38	-247.04
42	42	49.60	0.00	63.38	-247.04
42	43	51.05	0.00	63.38	-338.94
43	43	51.05	0.00	63.38	-338.94
43	44	51.50	0.00	63.38	-367.46
44	44	51.50	0.00	63.38	-367.46
44	45	52.50	0.00	63.38	-430.84
45	1045	52.50	0.00	-65.77	-430.84
45	46	53.50	0.00	-65.77	-365.07
46	46	53.50	0.00	-65.77	-365.07
46	47	53.95	0.00	-65.77	-335.47
47	47	53.95	0.00	-65.77	-335.47
47	48	55.40	0.00	-65.77	-240.10
48	48	55.40	0.00	-65.77	-240.10
48	49	56.85	0.00	-56.02	-148.59
49	49	56.85	0.00	-56.02	-148.59
49	50	58.30	0.00	-56.02	-67.36
50	50	58.30	-0.54	-56.02	-67.36
50	51	59.75	-0.54	-56.02	13.87
51	51	59.75	-0.54	-56.02	13.87
51	52	61.20	-0.39	-40.27	80.45
52	52	61.20	0.00	-40.27	80.45
52	53	62.65	0.00	-40.27	138.84
53	53	62.65	0.00	-40.27	138.84
53	54	64.10	0.00	-40.27	197.24
54	54	64.10	0.00	-40.27	197.24
54	55	65.55	0.00	-12.09	233.40
55	55	65.55	0.00	-12.09	233.40
55	56	67.00	0.00	-12.09	250.93
56	56	67.00	0.00	-12.09	250.93
56	57	68.45	0.00	-12.09	268.45
57	57	68.45	0.00	-12.09	268.45
57	58	69.90	0.00	16.10	267.33
58	58	69.90	0.00	16.10	267.33
58	59	71.35	0.00	16.10	243.99
59	59	71.35	0.00	16.10	243.99
59	60	72.80	0.00	16.10	220.64
60	60	72.80	-0.15	16.10	220.64
60	61	74.25	-0.31	31.85	189.11
61	61	74.25	-0.31	31.85	189.11
61	62	75.70	-0.31	31.85	142.92
62	62	75.70	0.00	31.85	142.92
62	63	77.15	0.00	31.85	96.74
63	63	77.15	0.00	31.85	96.74
63	64	78.60	0.00	41.60	40.27
64	64	78.60	0.00	41.60	40.27
64	65	80.05	0.00	41.60	-20.04
65	65	80.05	0.00	41.60	-20.04
65	66	80.50	0.00	41.60	-38.77
66	66	80.50	0.00	41.60	-38.77
66	67	81.50	0.00	41.60	-80.36
67	1067	81.50	0.00	3.42	-80.36
67	68	82.50	0.00	3.42	-83.79
68	68	82.50	0.00	3.42	-83.79
68	69	83.08	0.00	3.42	-85.75
69	69	83.08	0.00	3.42	-85.75
69	70	84.65	0.00	3.42	-91.14
70	70	84.65	0.00	3.42	-91.14
70	71	86.23	0.00	3.42	-96.53
71	71	86.23	0.00	3.42	-96.53
71	72	87.80	0.00	3.42	-101.92
72	72	87.80	0.03	3.42	-101.92
72	73	89.38	0.03	3.42	-107.31
73	73	89.38	0.03	3.42	-107.31
73	74	90.95	0.03	3.42	-112.70
74	74	90.95	0.00	3.42	-112.70
74	75	92.53	0.00	3.42	-118.09
75	75	92.53	0.00	3.42	-118.09
75	76	94.10	0.00	3.42	-123.48
76	76	94.10	0.00	3.42	-123.48
76	77	95.68	0.00	3.42	-128.87
77	77	95.68	0.00	3.42	-128.87
77	78	97.25	0.00	3.42	-134.26
78	78	97.25	0.00	3.42	-134.26
78	79	98.83	0.00	3.42	-139.65
79	79	98.83	0.00	3.42	-139.65
79	80	100.40	0.00	3.42	-145.04
80	80	100.40	0.00	3.42	-145.04
80	81	101.98	0.00	3.42	-150.43
81	81	101.98	0.00	3.42	-150.43
81	82	103.55	0.00	3.42	-155.82
82	82	103.55	-0.03	3.42	-155.82
82	83	105.13	-0.03	3.42	-161.21
83	83	105.13	-0.03	3.42	-161.21
83	84	106.70	-0.03	3.42	-166.60
84	84	106.70	0.00	3.42	-166.60
84	85	108.28	0.00	3.42	-171.99
85	85	108.28	0.00	3.42	-171.99
85	86	109.85	0.00	3.42	-177.38
86	86	109.85	0.00	3.42	-177.38
86	87	111.43	0.00	3.42	-182.77
87	87	111.43	0.00	3.42	-182.77

$\leftarrow M_{Pz}^{-}$ $\left.\begin{array}{l} Q^{-} = 63.38^{t} \\ Q^{+} = -65.77^{t} \end{array}\right.$

87	88	112.00	0.00	3.42	-184.74
88	88	112.00	0.00	3.42	-184.74
88	89	113.00	0.00	3.42	-188.16
89	1089	113.00	0.00	-51.42	-188.16
89	90	114.00	0.00	-51.42	-136.73
90	90	114.00	0.00	-51.42	-136.73
90	91	114.58	0.00	-51.42	-107.17
91	91	114.58	0.00	-51.42	-107.17
91	92	116.15	0.00	-51.42	-26.18
92	92	116.15	0.00	-51.42	-26.18
92	93	117.73	0.00	-51.42	54.82
93	93	117.73	0.00	-51.42	54.82
93	94	119.30	0.00	-41.67	125.13
94	94	119.30	-0.37	-41.67	125.13
94	95	120.88	-0.37	-41.67	190.77
95	95	120.88	-0.37	-41.67	190.77
95	96	122.45	-0.23	-25.92	249.63
96	96	122.45	0.00	-25.92	249.63
96	97	124.03	0.00	-25.92	290.46
97	97	124.03	0.00	-25.92	290.46
97	98	125.60	0.00	-25.92	331.29
98	98	125.60	0.00	-25.92	331.29
98	99	127.18	0.00	-11.24	352.81
99	99	127.18	0.00	-11.24	352.81
99	100	128.75	0.00	2.26	349.86
100	100	128.75	0.00	2.26	349.86
100	101	130.33	0.00	15.76	345.69
101	101	130.33	0.00	15.76	345.69
101	102	131.90	0.00	30.45	317.05
102	102	131.90	0.00	30.45	317.05
102	103	133.48	0.00	30.45	269.10
103	103	133.48	0.00	30.45	269.10
103	104	135.05	0.00	30.45	221.15
104	104	135.05	-0.27	30.44	221.15
104	105	136.63	-0.41	46.19	155.16
105	105	136.63	-0.41	46.19	155.16
105	106	138.20	-0.41	46.19	82.40
106	106	138.20	0.00	46.20	82.40
106	107	139.78	0.00	55.95	4.96
107	107	139.78	0.00	55.95	4.96
107	108	141.35	0.00	55.95	-83.15
108	108	141.35	0.00	55.95	-83.15
108	109	142.93	0.00	55.95	-171.27
109	109	142.93	0.00	55.95	-171.27
109	110	143.50	0.00	55.95	-203.44
110	110	143.50	0.00	55.95	-203.44
110	111	144.50	0.00	55.95	-259.38
111	1111	144.50	0.00	-11.04	-259.38
111	112	145.50	0.00	-11.04	-248.34
112	112	145.50	0.00	-11.04	-248.34
112	113	145.68	0.00	-11.04	-246.41
113	113	145.68	0.00	-11.04	-246.41
113	114	146.85	0.00	-11.04	-233.44
114	114	146.85	0.00	-11.04	-233.44
114	115	148.03	0.00	-11.04	-220.47
115	115	148.03	0.00	-11.04	-220.47
115	116	149.20	0.00	-11.04	-207.50
116	116	149.20	-0.13	-11.04	-207.50
116	117	150.38	-0.13	-11.04	-194.54
117	117	150.38	-0.13	-11.04	-194.54
117	118	151.55	-0.13	-11.04	-181.57
118	118	151.55	0.00	-11.04	-181.57
118	119	152.73	0.00	-11.04	-168.60
119	119	152.73	0.00	-11.04	-168.60
119	120	153.90	0.00	-11.04	-155.63
120	120	153.90	0.00	-11.04	-155.63
120	121	155.08	0.00	-11.04	-142.66
121	121	155.08	0.00	-11.04	-142.66
121	122	156.25	0.00	-11.04	-129.69
122	122	156.25	0.00	-11.04	-129.69
122	123	157.43	0.00	-11.04	-116.72
123	123	157.43	0.00	-11.04	-116.72
123	124	158.60	0.00	-11.04	-103.75
124	124	158.60	0.00	-11.04	-103.75
124	125	159.78	0.00	-11.04	-90.78
125	125	159.78	0.00	-11.04	-90.78
125	126	160.95	0.00	-11.04	-77.81
126	126	160.95	0.00	-11.04	-77.81
126	127	162.13	0.00	-11.04	-64.85
127	127	162.13	0.00	-11.04	-64.85
127	128	163.30	0.00	-11.04	-51.88
128	128	163.30	0.00	-11.04	-51.88
128	129	164.48	0.00	-11.04	-38.91
129	129	164.48	0.00	-11.04	-38.91
129	130	165.65	0.00	-11.04	-25.94
130	130	165.65	0.00	-11.04	-25.94
130	131	166.83	0.00	-11.04	-12.97
131	131	166.83	0.00	-11.04	-12.97
131	132	167.00	0.00	-11.04	-11.04
132	132	167.00	0.00	-11.04	-11.04
132	133	168.00	0.00	-11.04	0.00

CALCULO TENSIONAL

Hipotesis de calculo

FASE V

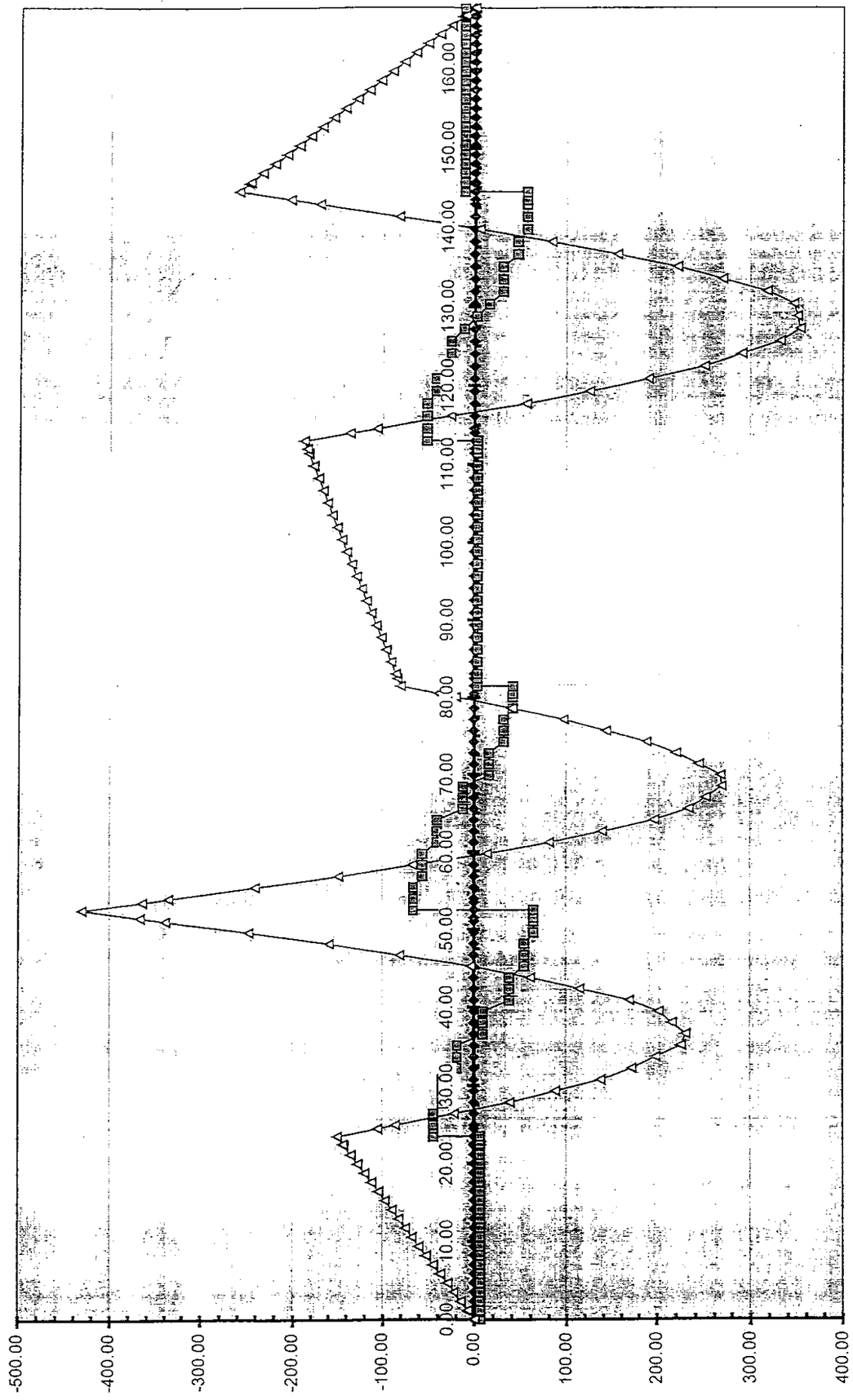
PC PILA 3

[1: 1]PC5

Coef. exc

Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-1.67	0.00
1	2	1.00	0.00	-1.67	1.67
2	2	1.00	0.00	-1.67	1.67
2	3	1.18	0.00	-1.67	1.96
3	3	1.18	0.00	-1.67	1.96
3	4	2.35	0.00	-1.67	3.92
4	4	2.35	0.00	-1.67	3.92
4	5	3.53	0.00	-1.67	5.88
5	5	3.53	0.00	-1.67	5.88
5	6	4.70	0.00	-1.67	7.84
6	6	4.70	0.00	-1.67	7.84
6	7	5.88	0.00	-1.67	9.80
7	7	5.88	0.00	-1.67	9.80
7	8	7.05	0.00	-1.67	11.76
8	8	7.05	0.00	-1.67	11.76
8	9	8.23	0.00	-1.67	13.72
9	9	8.23	0.00	-1.67	13.72
9	10	9.40	0.00	-1.67	15.68
10	10	9.40	0.00	-1.67	15.68
10	11	10.58	0.00	-1.67	17.64
11	11	10.58	0.00	-1.67	17.64
11	12	11.75	0.00	-1.67	19.60
12	12	11.75	0.00	-1.67	19.60
12	13	12.93	0.00	-1.67	21.56
13	13	12.93	0.00	-1.67	21.56
13	14	14.10	0.00	-1.67	23.52
14	14	14.10	0.00	-1.67	23.52
14	15	15.28	0.00	-1.67	25.48
15	15	15.28	0.00	-1.67	25.48
15	16	16.45	0.00	-1.67	27.44
16	16	16.45	0.02	-1.67	27.44
16	17	17.63	0.02	-1.67	29.40
17	17	17.63	0.02	-1.67	29.40
17	18	18.80	0.02	-1.67	31.36
18	18	18.80	0.00	-1.67	31.36
18	19	19.98	0.00	-1.67	33.32
19	19	19.98	0.00	-1.67	33.32
19	20	21.15	0.00	-1.67	35.28
20	20	21.15	0.00	-1.67	35.28
20	21	22.33	0.00	-1.67	37.23
21	21	22.33	0.00	-1.67	37.23
21	22	22.50	0.00	-1.67	37.53
22	22	22.50	0.00	-1.67	37.53
22	23	23.50	0.00	-1.67	39.19
23	1023	23.50	0.00	6.19	39.19
23	24	24.50	0.00	6.19	33.01
24	24	24.50	0.00	6.19	33.01
24	25	24.95	0.00	6.19	30.22
25	25	24.95	0.00	6.19	30.22
25	26	26.40	0.00	6.19	21.25
26	26	26.40	0.00	6.19	21.25

GRÁFICO DE ESFUERZOS (FASE IV)

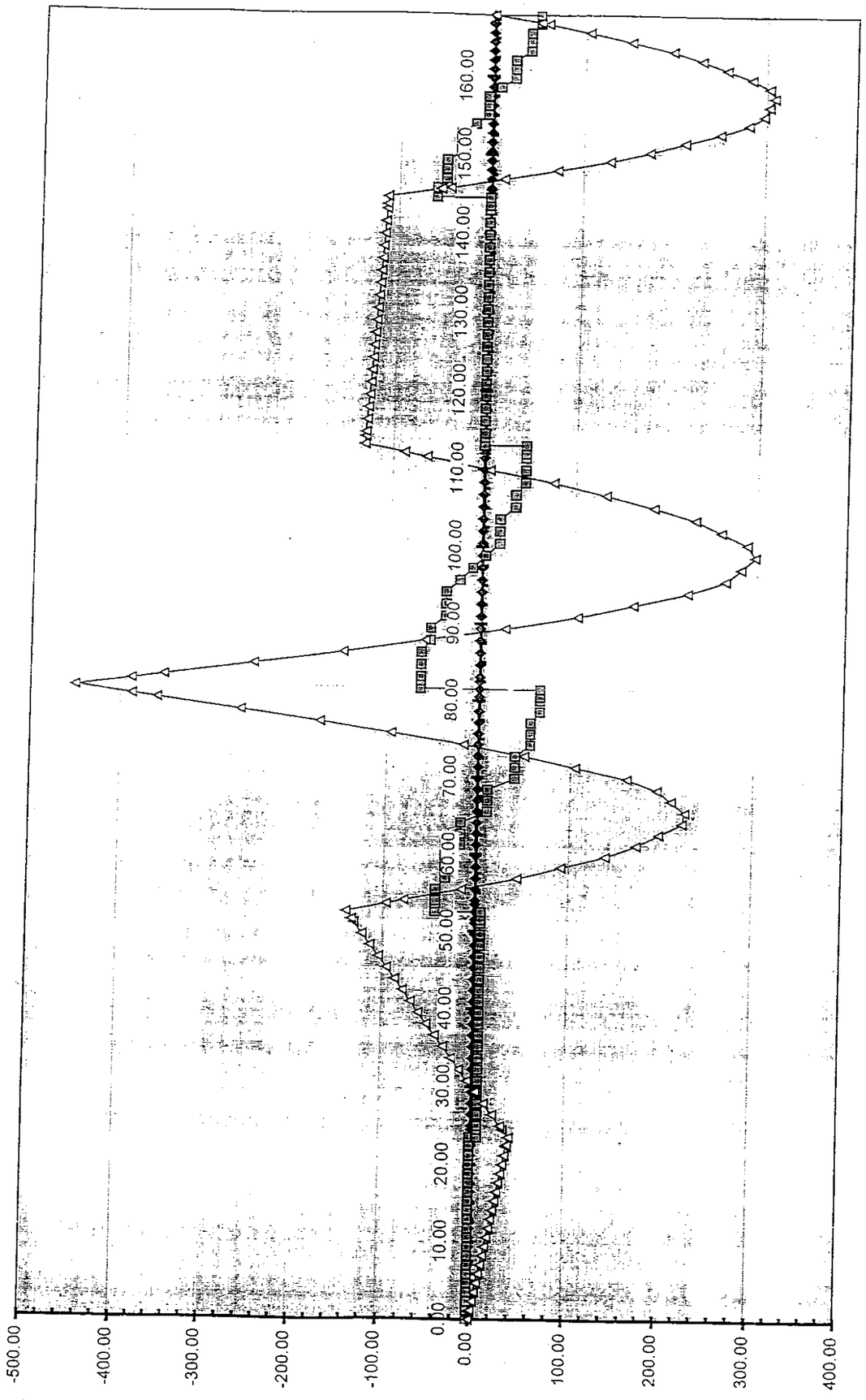


26	27	27.85	0.00	6.19	12.27
27	27	27.85	0.00	6.19	12.27
27	28	29.30	0.00	6.19	3.30
28	28	29.30	0.06	6.19	3.30
28	29	30.75	0.06	6.19	-5.68
29	29	30.75	0.06	6.19	-5.68
29	30	32.20	0.06	6.19	-14.65
30	30	32.20	0.00	6.19	-14.65
30	31	33.65	0.00	6.19	-23.63
31	31	33.65	0.00	6.19	-23.63
31	32	35.10	0.00	6.19	-32.60
32	32	35.10	0.00	6.19	-32.60
32	33	36.55	0.00	6.19	-41.57
33	33	36.55	0.00	6.19	-41.57
33	34	38.00	0.00	6.19	-50.55
34	34	38.00	0.00	6.19	-50.55
34	35	39.45	0.00	6.19	-59.52
35	35	39.45	0.00	6.19	-59.52
35	36	40.90	0.00	6.19	-68.50
36	36	40.90	0.00	6.19	-68.50
36	37	42.35	0.00	6.19	-77.47
37	37	42.35	0.00	6.19	-77.47
37	38	43.80	0.00	6.19	-86.44
38	38	43.80	-0.06	6.19	-86.44
38	39	45.25	-0.06	6.19	-95.42
39	39	45.25	-0.06	6.19	-95.42
39	40	46.70	-0.06	6.19	-104.39
40	40	46.70	0.00	6.19	-104.39
40	41	48.15	0.00	6.19	-113.37
41	41	48.15	0.00	6.19	-113.37
41	42	49.60	0.00	6.19	-122.34
42	42	49.60	0.00	6.19	-122.34
42	43	51.05	0.00	6.19	-131.32
43	43	51.05	0.00	6.19	-131.32
43	44	51.50	0.00	6.19	-134.10
44	44	51.50	0.00	6.19	-134.10
44	45	52.50	0.00	6.19	-140.29
45	1045	52.50	0.00	-42.96	-140.29
45	46	53.50	0.00	-42.96	-97.33
46	46	53.50	0.00	-42.96	-97.33
46	47	53 95	0.00	-42.96	-77.99
47	47	53.95	0.00	-42.96	-77.99
47	48	55.40	0.00	-42.96	-15.70
48	48	55.40	0.00	-42.96	-15.70
48	49	56.85	0.00	-33.21	42.75
49	49	56.85	0.00	-33.21	42.75
49	50	58.30	0.00	-33.21	90.91
50	50	58.30	-0.32	-33.21	90.91
50	51	59.75	-0.32	-33.21	139.07
51	51	59.75	-0.32	-33.21	139.07
51	52	61.20	-0.17	-17.46	172.58
52	52	61.20	0.00	-17.46	172.58
52	53	62.65	0.00	-17.46	197.90
53	53	62.65	0.00	-17.46	197.90
53	54	64.10	0.00	-17.46	223.22
54	54	64.10	0.00	-17.46	223.22
54	55	65.55	0.00	10.72	226.32
55	55	65.55	0.00	10.72	226.32
55	56	67.00	0.00	10.72	210.77
56	56	67.00	0.00	10.72	210.77
56	57	68.45	0.00	10.72	195.23
57	57	68.45	0.00	10.72	195.23
57	58	69.90	0.00	38.91	161.04
58	58	69.90	0.00	38.91	161.04
58	59	71.35	0.00	38.91	104.63
59	59	71.35	0.00	38.91	104.63
59	60	72.80	0.00	38.91	48.21
60	60	72.80	-0.37	38.90	48.21
60	61	74.25	-0.52	54.65	-16.39
61	61	74.25	-0.52	54.65	-16.39
61	62	75.70	-0.52	54.65	-95.64
62	62	75.70	0.00	54.66	-95.64
62	63	77.15	0.00	54.66	-174.90
63	63	77.15	0.00	54.66	-174.90
63	64	78.60	0.00	64.41	-264.43
64	64	78.60	0.00	64.41	-264.43
64	65	80.05	0.00	64.41	-357.82
65	65	80.05	0.00	64.41	-357.82
65	66	80.50	0.00	64.41	-386.81
66	66	80.50	0.00	64.41	-386.81
66	67	81.50	0.00	64.41	-451.21
67	1067	81.50	0.00	-63.84	-451.21
67	68	82.50	0.00	-63.84	-387.37
68	68	82.50	0.00	-63.84	-387.37
68	69	83.08	0.00	-63.84	-350.67
69	69	83.08	0.00	-63.84	-350.67
69	70	84.65	0.00	-63.84	-250.12
70	70	84.65	0.00	-63.84	-250.12
70	71	86.23	0.00	-63.84	-149.58
71	71	86.23	0.00	-63.84	-149.58
71	72	87.80	0.00	-54.09	-59.71
72	72	87.80	-0.46	-54.09	-59.71
72	73	89.38	-0.48	-54.09	25.48
73	73	89.38	-0.48	-54.09	25.48
73	74	90.95	-0.34	-38.34	103.90
74	74	90.95	0.00	-38.34	103.90
74	75	92.53	0.00	-38.34	164.28
75	75	92.53	0.00	-38.34	164.28
75	76	94.10	0.00	-38.34	224.66
76	76	94.10	0.00	-38.34	224.66
76	77	95.68	0.00	-23.65	265.73
77	77	95.68	0.00	-23.65	265.73
77	78	97.25	0.00	-10.15	282.33
78	78	97.25	0.00	-10.15	282.33
78	79	98.83	0.00	3.35	297.71
79	79	98.83	0.00	3.35	297.71
79	80	100.40	0.00	18.03	288.63
80	80	100.40	0.00	18.03	288.63
80	81	101.98	0.00	18.03	260.23
81	81	101.98	0.00	18.03	260.23
81	82	103.55	0.00	18.03	231.83
82	82	103.55	-0.16	18.03	231.83
82	83	105.13	-0.30	33.78	185.39
83	83	105.13	-0.30	33.78	185.39
83	84	106.70	-0.30	33.78	132.19
84	84	106.70	0.00	33.78	132.19
84	85	108.28	0.00	43.53	74.30
85	85	108.28	0.00	43.53	74.30
85	86	109.85	0.00	43.53	5.74
86	86	109.85	0.00	43.53	5.74
86	87	111.43	0.00	43.53	-62.83
87	87	111.43	0.00	43.53	-62.83

$\leftarrow M_{13}^{-}$ $\left.\begin{array}{l} Q^{-} = 64.41 \\ Q^{+} = -63.84 \end{array}\right.$

87	88	112.00	0.00	43.53	-87.86
88	88	112.00	0.00	43.53	-87.86
88	89	113.00	0.00	43.53	-131.39
89	1089	113.00	0.00	-0.58	-131.39
89	90	114.00	0.00	-0.58	-130.80
90	90	114.00	0.00	-0.58	-130.80
90	91	114.58	0.00	-0.58	-130.47
91	91	114.58	0.00	-0.58	-130.47
91	92	116.15	0.00	-0.58	-129.55
92	92	116.15	0.00	-0.58	-129.55
92	93	117.73	0.00	-0.58	-128.63
93	93	117.73	0.00	-0.58	-128.63
93	94	119.30	0.00	-0.58	-127.70
94	94	119.30	-0.01	-0.58	-127.70
94	95	120.88	-0.01	-0.58	-126.78
95	95	120.88	-0.01	-0.58	-126.78
95	96	122.45	-0.01	-0.58	-125.86
96	96	122.45	0.00	-0.58	-125.86
96	97	124.03	0.00	-0.58	-124.94
97	97	124.03	0.00	-0.58	-124.94
97	98	125.60	0.00	-0.58	-124.02
98	98	125.60	0.00	-0.58	-124.02
98	99	127.18	0.00	-0.58	-123.10
99	99	127.18	0.00	-0.58	-123.10
99	100	128.75	0.00	-0.58	-122.18
100	100	128.75	0.00	-0.58	-122.18
100	101	130.33	0.00	-0.58	-121.26
101	101	130.33	0.00	-0.58	-121.26
101	102	131.90	0.00	-0.58	-120.34
102	102	131.90	0.00	-0.58	-120.34
102	103	133.48	0.00	-0.58	-119.42
103	103	133.48	0.00	-0.58	-119.42
103	104	135.05	0.00	-0.58	-118.50
104	104	135.05	0.01	-0.58	-118.50
104	105	136.63	0.01	-0.58	-117.57
105	105	136.63	0.01	-0.58	-117.57
105	106	138.20	0.01	-0.58	-116.65
106	106	138.20	0.00	-0.58	-116.65
106	107	139.78	0.00	-0.58	-115.73
107	107	139.78	0.00	-0.58	-115.73
107	108	141.35	0.00	-0.58	-114.81
108	108	141.35	0.00	-0.58	-114.81
108	109	142.93	0.00	-0.58	-113.89
109	109	142.93	0.00	-0.58	-113.89
109	110	143.50	0.00	-0.58	-113.56
110	110	143.50	0.00	-0.58	-113.56
110	111	144.50	0.00	-0.58	-112.97
111	1111	144.50	0.00	-58.49	-112.97
111	112	145.50	0.00	-58.49	-54.47
112	112	145.50	0.00	-58.49	-54.47
112	113	145.68	0.00	-58.49	-44.24
113	113	145.68	0.00	-58.49	-44.24
113	114	146.85	0.00	-48.74	13.32
114	114	146.85	0.00	-48.74	13.32
114	115	148.03	0.00	-48.74	70.59
115	115	148.03	0.00	-48.74	70.59
115	116	149.20	0.00	-48.74	127.87
116	116	149.20	-0.58	-48.74	127.87
116	117	150.38	-0.39	-32.99	171.67
117	117	150.38	-0.39	-32.99	171.67
117	118	151.55	-0.39	-32.99	210.44
118	118	151.55	0.00	-32.99	210.44
118	119	152.73	0.00	-32.99	249.20
119	119	152.73	0.00	-32.99	249.20
119	120	153.90	0.00	-18.31	280.04
120	120	153.90	0.00	-18.31	280.04
120	121	155.08	0.00	-4.81	296.76
121	121	155.08	0.00	-4.81	296.76
121	122	156.25	0.00	-4.81	302.41
122	122	156.25	0.00	-4.81	302.41
122	123	157.43	0.00	-4.81	308.06
123	123	157.43	0.00	-4.81	308.06
123	124	158.60	0.00	8.69	302.63
124	124	158.60	0.00	8.69	302.63
124	125	159.78	0.00	23.38	283.10
125	125	159.78	0.00	23.38	283.10
125	126	160.95	0.00	23.38	255.63
126	126	160.95	0.00	23.38	255.63
126	127	162.13	0.00	23.38	228.16
127	127	162.13	0.00	23.38	228.16
127	128	163.30	0.00	39.13	195.65
128	128	163.30	0.00	39.13	195.65
128	129	164.48	0.00	39.13	149.67
129	129	164.48	0.00	39.13	149.67
129	130	165.65	0.00	39.13	103.70
130	130	165.65	0.00	39.13	103.70
130	131	166.83	0.00	48.88	57.43
131	131	166.83	0.00	48.88	57.43
131	132	167.00	0.00	48.88	48.87
132	132	167.00	0.00	48.88	48.87
132	133	168.00	0.00	48.88	0.00

GRÁFICO DE ESFUERZOS (FASE V)



CALCULO TENSIONAL

Hipótesis de cálculo

FASE V

PC PILA 4

[1: 1]PC6

Coef. exc:

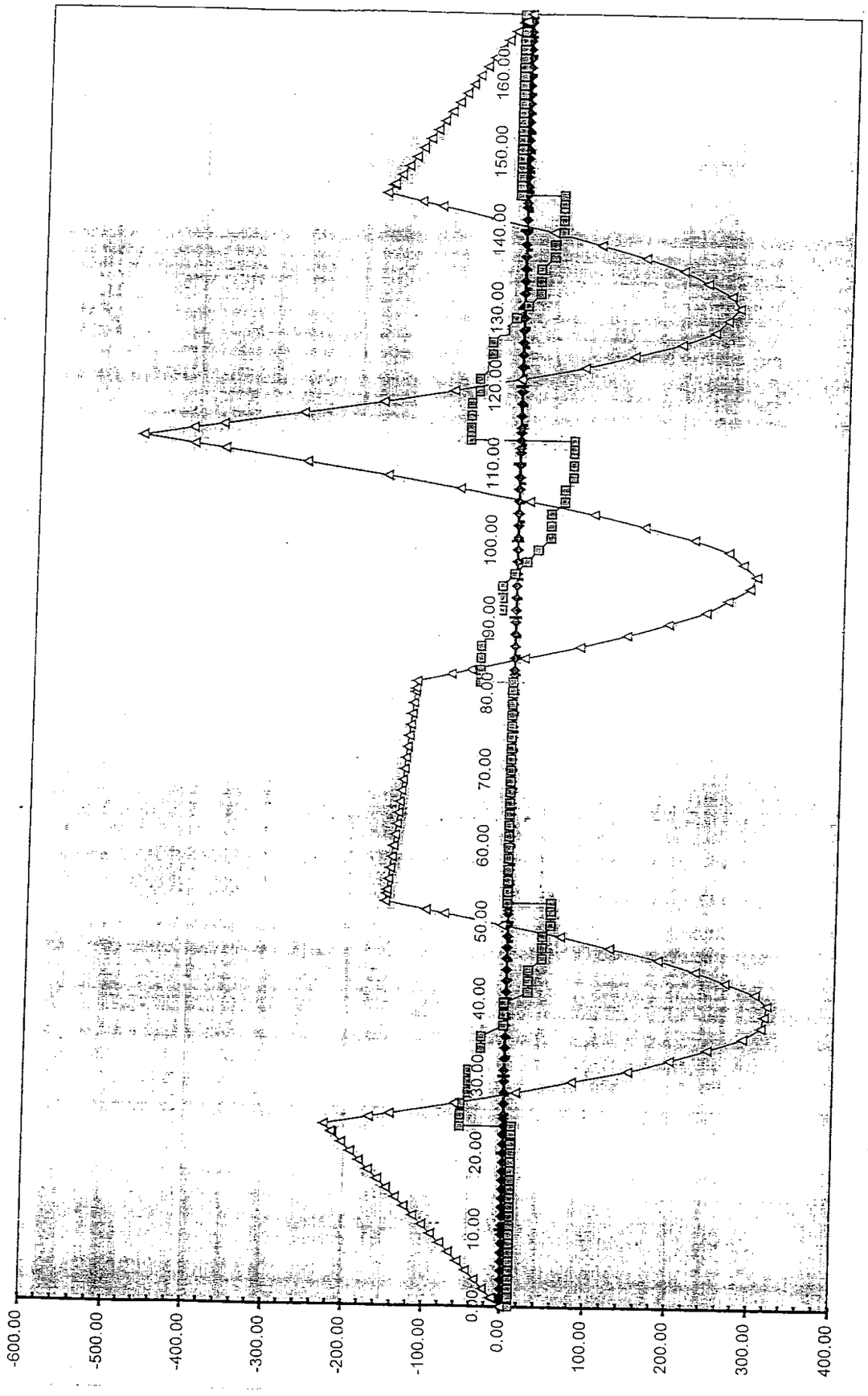
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	9.64	0.00
1	2	1.00	0.00	9.64	-9.64
2	2	1.00	0.00	9.64	-9.64
2	3	1.18	0.00	9.64	-11.32
3	3	1.18	0.00	9.64	-11.32
3	4	2.35	0.00	9.64	-22.64
4	4	2.35	0.00	9.64	-22.64
4	5	3.53	0.00	9.64	-33.97
5	5	3.53	0.00	9.64	-33.97
5	6	4.70	0.00	9.64	-45.29
6	6	4.70	0.00	9.64	-45.29
6	7	5.88	0.00	9.64	-56.61
7	7	5.88	0.00	9.64	-56.61
7	8	7.05	0.00	9.64	-67.93
8	8	7.05	0.00	9.64	-67.93
8	9	8.23	0.00	9.64	-79.26
9	9	8.23	0.00	9.64	-79.26
9	10	9.40	0.00	9.64	-90.58
10	10	9.40	0.00	9.64	-90.58
10	11	10.58	0.00	9.64	-101.90
11	11	10.58	0.00	9.64	-101.90
11	12	11.75	0.00	9.64	-113.22
12	12	11.75	0.00	9.64	-113.22
12	13	12.93	0.00	9.64	-124.55
13	13	12.93	0.00	9.64	-124.55
13	14	14.10	0.00	9.64	-135.87
14	14	14.10	0.00	9.64	-135.87
14	15	15.28	0.00	9.64	-147.19
15	15	15.28	0.00	9.64	-147.19
15	16	16.45	0.00	9.64	-158.51
16	16	16.45	-0.11	9.64	-158.51
16	17	17.63	-0.11	9.64	-169.84
17	17	17.63	-0.11	9.64	-169.84
17	18	18.80	-0.11	9.64	-181.16
18	18	18.80	0.00	9.64	-181.16
18	19	19.98	0.00	9.64	-192.48
19	19	19.98	0.00	9.64	-192.48
19	20	21.15	0.00	9.64	-203.80
20	20	21.15	0.00	9.64	-203.80
20	21	22.33	0.00	9.64	-215.13
21	21	22.33	0.00	9.64	-215.13
21	22	22.50	0.00	9.64	-216.81
22	22	22.50	0.00	9.64	-216.81
22	23	23.50	0.00	9.64	-226.45
23	1023	23.50	0.00	-56.11	-226.45
23	24	24.50	0.00	-56.11	-170.34
24	24	24.50	0.00	-56.11	-170.34
24	25	24.95	0.00	-56.11	-145.09
25	25	24.95	0.00	-56.11	-145.09
25	26	26.40	0.00	-56.11	-63.72
26	26	26.40	0.00	-56.11	-63.72

26	27	27.85	0.00	-46.36	13.79
27	27	27.85	0.00	-46.36	13.79
27	28	29.30	0.00	-46.36	81.01
28	28	29.30	-0.44	-46.36	81.01
28	29	30.75	-0.44	-46.36	148.24
29	29	30.75	-0.44	-46.36	148.24
29	30	32.20	-0.29	-30.61	200.81
30	30	32.20	0.00	-30.61	200.81
30	31	33.65	0.00	-30.61	245.20
31	31	33.65	0.00	-30.61	245.20
31	32	35.10	0.00	-30.61	289.59
32	32	35.10	0.00	-30.61	289.59
32	33	36.55	0.00	-2.43	311.75
33	33	36.55	0.00	-2.43	311.75
33	34	38.00	0.00	-2.43	315.27
34	34	38.00	0.00	-2.43	315.27
34	35	39.45	0.00	-2.43	318.79
35	35	39.45	0.00	-2.43	318.79
35	36	40.90	0.00	25.76	303.66
36	36	40.90	0.00	25.76	303.66
36	37	42.35	0.00	25.76	266.31
37	37	42.35	0.00	25.76	266.31
37	38	43.80	0.00	25.76	228.96
38	38	43.80	-0.25	25.76	228.96
38	39	45.25	-0.40	41.51	183.42
39	39	45.25	-0.40	41.51	183.42
39	40	46.70	-0.40	41.51	123.24
40	40	46.70	0.00	41.51	123.24
40	41	48.15	0.00	41.51	63.05
41	41	48.15	0.00	41.51	63.05
41	42	49.60	0.00	51.26	-7.42
42	42	49.60	0.00	51.26	-7.42
42	43	51.05	0.00	51.26	-81.75
43	43	51.05	0.00	51.26	-81.75
43	44	51.50	0.00	51.26	-104.81
44	44	51.50	0.00	51.26	-104.81
44	45	52.50	0.00	51.26	-156.07
45	1045	52.50	0.00	-1.13	-156.07
45	46	53.50	0.00	-1.13	-154.94
46	46	53.50	0.00	-1.13	-154.94
46	47	53.95	0.00	-1.13	-154.43
47	47	53.95	0.00	-1.13	-154.43
47	48	55.40	0.00	-1.13	-152.78
48	48	55.40	0.00	-1.13	-152.78
48	49	56.85	0.00	-1.13	-151.14
49	49	56.85	0.00	-1.13	-151.14
49	50	58.30	0.00	-1.13	-149.49
50	50	58.30	-0.01	-1.13	-149.49
50	51	59.75	-0.01	-1.13	-147.85
51	51	59.75	-0.01	-1.13	-147.85
51	52	61.20	-0.01	-1.13	-146.21
52	52	61.20	0.00	-1.13	-146.21
52	53	62.65	0.00	-1.13	-144.56
53	53	62.65	0.00	-1.13	-144.56
53	54	64.10	0.00	-1.13	-142.92
54	54	64.10	0.00	-1.13	-142.92
54	55	65.55	0.00	-1.13	-141.27
55	55	65.55	0.00	-1.13	-141.27
55	56	67.00	0.00	-1.13	-139.63
56	56	67.00	0.00	-1.13	-139.63
56	57	68.45	0.00	-1.13	-137.98
57	57	68.45	0.00	-1.13	-137.98
57	58	69.90	0.00	-1.13	-136.34
58	58	69.90	0.00	-1.13	-136.34
58	59	71.35	0.00	-1.13	-134.69
59	59	71.35	0.00	-1.13	-134.69
59	60	72.80	0.00	-1.13	-133.05
60	60	72.80	0.01	-1.13	-133.05
60	61	74.25	0.01	-1.13	-131.41
61	61	74.25	0.01	-1.13	-131.41
61	62	75.70	0.01	-1.13	-129.76
62	62	75.70	0.00	-1.13	-129.76
62	63	77.15	0.00	-1.13	-128.12
63	63	77.15	0.00	-1.13	-128.12
63	64	78.60	0.00	-1.13	-126.47
64	64	78.60	0.00	-1.13	-126.47
64	65	80.05	0.00	-1.13	-124.83
65	65	80.05	0.00	-1.13	-124.83
65	66	80.50	0.00	-1.13	-124.32
66	66	80.50	0.00	-1.13	-124.32
66	67	81.50	0.00	-1.13	-123.18
67	1067	81.50	0.00	-42.60	-123.18
67	68	82.50	0.00	-42.60	-80.58
68	68	82.50	0.00	-42.60	-80.58
68	69	83.08	0.00	-42.60	-56.08
69	69	83.08	0.00	-42.60	-56.08
69	70	84.65	0.00	-42.60	11.02
70	70	84.65	0.00	-42.60	11.02
70	71	86.23	0.00	-42.60	78.12
71	71	86.23	0.00	-42.60	78.12
71	72	87.80	0.00	-32.85	134.54
72	72	87.80	-0.29	-32.85	134.54
72	73	89.38	-0.29	-32.85	186.28
73	73	89.38	-0.29	-32.85	186.28
73	74	90.95	-0.15	-17.10	231.26
74	74	90.95	0.00	-17.10	231.26
74	75	92.53	0.00	-17.10	258.19
75	75	92.53	0.00	-17.10	258.19
75	76	94.10	0.00	-17.10	285.13
76	76	94.10	0.00	-17.10	285.13
76	77	95.68	0.00	-2.42	292.76
77	77	95.68	0.00	-2.42	292.76
77	78	97.25	0.00	11.08	275.91
78	78	97.25	0.00	11.08	275.91
78	79	98.83	0.00	24.58	257.85
79	79	98.83	0.00	24.58	257.85
79	80	100.40	0.00	39.27	215.32
80	80	100.40	0.00	39.27	215.32
80	81	101.98	0.00	39.27	153.47
81	81	101.98	0.00	39.27	153.47
81	82	103.55	0.00	39.27	91.63
82	82	103.55	-0.35	39.27	91.63
82	83	105.13	-0.49	55.01	11.75
83	83	105.13	-0.49	55.01	11.75
83	84	106.70	-0.49	55.01	-74.90
84	84	106.70	0.00	55.02	-74.90
84	85	108.28	0.00	64.77	-166.23
85	85	108.28	0.00	64.77	-166.23
85	86	109.85	0.00	64.77	-268.24
86	86	109.85	0.00	64.77	-268.24
86	87	111.43	0.00	64.77	-370.25
87	87	111.43	0.00	64.77	-370.25

87	88	112.00	0.00	64.77	-407.49
88	88	112.00	0.00	64.77	-407.49
88	89	113.00	0.00	64.77	-472.26
89	1089	113.00	0.00	-63.06	-472.26
89	90	114.00	0.00	-63.06	-409.19
90	90	114.00	0.00	-63.06	-409.19
90	91	114.58	0.00	-63.06	-372.94
91	91	114.58	0.00	-63.06	-372.94
91	92	116.15	0.00	-63.06	-273.63
92	92	116.15	0.00	-63.06	-273.63
92	93	117.73	0.00	-63.06	-174.32
93	93	117.73	0.00	-63.06	-174.32
93	94	119.30	0.00	-53.31	-85.68
94	94	119.30	-0.47	-53.30	-85.68
94	95	120.88	-0.47	-53.30	-1.73
95	95	120.88	-0.47	-53.30	-1.73
95	96	122.45	-0.33	-37.55	75.46
96	96	122.45	0.00	-37.56	75.46
96	97	124.03	0.00	-37.56	134.61
97	97	124.03	0.00	-37.56	134.61
97	98	125.60	0.00	-37.56	193.76
98	98	125.60	0.00	-37.56	193.76
98	99	127.18	0.00	-22.87	233.60
99	99	127.18	0.00	-22.87	233.60
99	100	128.75	0.00	-9.37	248.96
100	100	128.75	0.00	-9.37	248.96
100	101	130.33	0.00	4.13	263.11
101	101	130.33	0.00	4.13	263.11
101	102	131.90	0.00	18.81	252.79
102	102	131.90	0.00	18.81	252.79
102	103	133.48	0.00	18.81	223.16
103	103	133.48	0.00	18.81	223.16
103	104	135.05	0.00	18.81	193.52
104	104	135.05	-0.17	18.81	193.52
104	105	136.63	-0.31	34.56	145.86
105	105	136.63	-0.31	34.56	145.86
105	106	138.20	-0.31	34.56	91.42
106	106	138.20	0.00	34.56	91.42
106	107	139.78	0.00	44.31	32.30
107	107	139.78	0.00	44.31	32.30
107	108	141.35	0.00	44.31	-37.50
108	108	141.35	0.00	44.31	-37.50
108	109	142.93	0.00	44.31	-107.29
109	109	142.93	0.00	44.31	-107.29
109	110	143.50	0.00	44.31	-132.78
110	110	143.50	0.00	44.31	-132.78
110	111	144.50	0.00	44.31	-177.09
111	1111	144.50	0.00	-7.54	-177.09
111	112	145.50	0.00	-7.54	-169.55
112	112	145.50	0.00	-7.54	-169.55
112	113	145.68	0.00	-7.54	-168.23
113	113	145.68	0.00	-7.54	-168.23
113	114	146.85	0.00	-7.54	-159.38
114	114	146.85	0.00	-7.54	-159.38
114	115	148.03	0.00	-7.54	-150.52
115	115	148.03	0.00	-7.54	-150.52
115	116	149.20	0.00	-7.54	-141.67
116	116	149.20	-0.09	-7.54	-141.67
116	117	150.38	-0.09	-7.54	-132.81
117	117	150.38	-0.09	-7.54	-132.81
117	118	151.55	-0.09	-7.54	-123.96
118	118	151.55	0.00	-7.54	-123.96
118	119	152.73	0.00	-7.54	-115.11
119	119	152.73	0.00	-7.54	-115.11
119	120	153.90	0.00	-7.54	-106.25
120	120	153.90	0.00	-7.54	-106.25
120	121	155.08	0.00	-7.54	-97.40
121	121	155.08	0.00	-7.54	-97.40
121	122	156.25	0.00	-7.54	-88.54
122	122	156.25	0.00	-7.54	-88.54
122	123	157.43	0.00	-7.54	-79.69
123	123	157.43	0.00	-7.54	-79.69
123	124	158.60	0.00	-7.54	-70.83
124	124	158.60	0.00	-7.54	-70.83
124	125	159.78	0.00	-7.54	-61.98
125	125	159.78	0.00	-7.54	-61.98
125	126	160.95	0.00	-7.54	-53.13
126	126	160.95	0.00	-7.54	-53.13
126	127	162.13	0.00	-7.54	-44.27
127	127	162.13	0.00	-7.54	-44.27
127	128	163.30	0.00	-7.54	-35.42
128	128	163.30	0.00	-7.54	-35.42
128	129	164.48	0.00	-7.54	-26.56
129	129	164.48	0.00	-7.54	-26.56
129	130	165.65	0.00	-7.54	-17.71
130	130	165.65	0.00	-7.54	-17.71
130	131	166.83	0.00	-7.54	-8.85
131	131	166.83	0.00	-7.54	-8.85
131	132	167.00	0.00	-7.54	-7.53
132	132	167.00	0.00	-7.54	-7.53
132	133	168.00	0.00	-7.54	0.00

$\pm M_{P4}^{-}$ $\begin{cases} Q^{-} = 64.77^{t} \\ Q^{+} = -63.06^{t} \end{cases}$

GRÁFICO DE ESFUERZOS (FASE VI)



CALCULO TENSIONAL

Hipótesis de cálculo

FASE VII

PC PILA 5

[1: 1]PC7

Coef. exc:

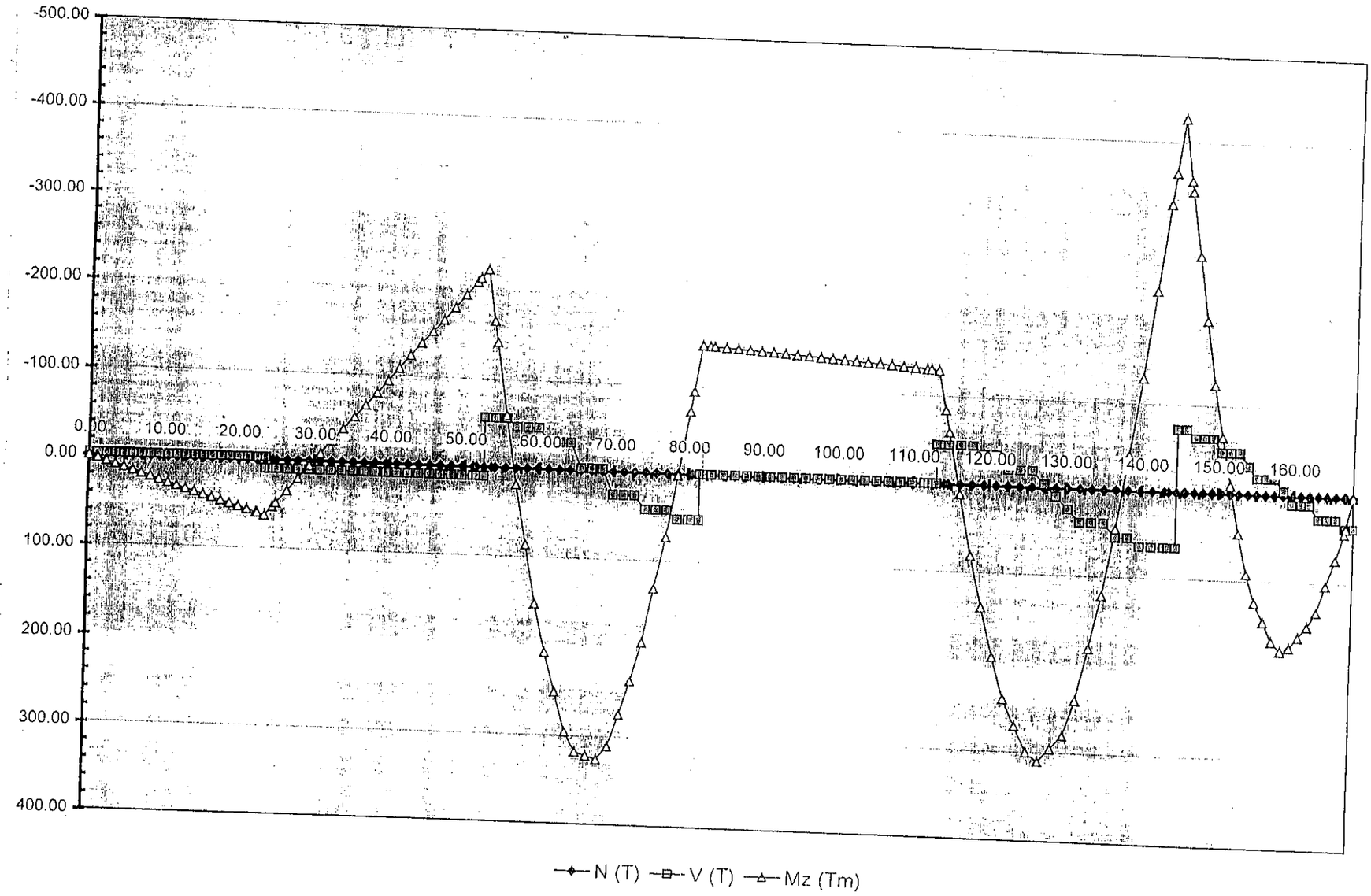
Barra	Nudo	X	N (T)	Vy (T)	Mz (Tm)
1	1	0.00	0.00	-2.65	0.00
1	2	1.00	0.00	-2.65	2.65
2	2	1.00	0.00	-2.65	2.65
2	3	1.18	0.00	-2.65	3.12
3	3	1.18	0.00	-2.65	3.12
3	4	2.35	0.00	-2.65	6.24
4	4	2.35	0.00	-2.65	6.24
4	5	3.53	0.00	-2.65	9.36
5	5	3.53	0.00	-2.65	9.36
5	6	4.70	0.00	-2.65	12.48
6	6	4.70	0.00	-2.65	12.48
6	7	5.88	0.00	-2.65	15.60
7	7	5.88	0.00	-2.65	15.60
7	8	7.05	0.00	-2.65	18.71
8	8	7.05	0.00	-2.65	18.71
8	9	8.23	0.00	-2.65	21.83
9	9	8.23	0.00	-2.65	21.83
9	10	9.40	0.00	-2.65	24.95
10	10	9.40	0.00	-2.65	24.95
10	11	10.58	0.00	-2.65	28.07
11	11	10.58	0.00	-2.65	28.07
11	12	11.75	0.00	-2.65	31.19
12	12	11.75	0.00	-2.65	31.19
12	13	12.93	0.00	-2.65	34.31
13	13	12.93	0.00	-2.65	34.31
13	14	14.10	0.00	-2.65	37.43
14	14	14.10	0.00	-2.65	37.43
14	15	15.28	0.00	-2.65	40.55
15	15	15.28	0.00	-2.65	40.55
15	16	16.45	0.00	-2.65	43.67
16	16	16.45	0.03	-2.65	43.67
16	17	17.63	0.03	-2.65	46.79
17	17	17.63	0.03	-2.65	46.79
17	18	18.80	0.03	-2.65	49.91
18	18	18.80	0.00	-2.65	49.91
18	19	19.98	0.00	-2.65	53.03
19	19	19.98	0.00	-2.65	53.03
19	20	21.15	0.00	-2.65	56.14
20	20	21.15	0.00	-2.65	56.14
20	21	22.33	0.00	-2.65	59.26
21	21	22.33	0.00	-2.65	59.26
21	22	22.50	0.00	-2.65	59.73
22	22	22.50	0.00	-2.65	59.73
22	23	23.50	0.00	-2.65	62.38
23	1023	23.50	0.00	9.85	62.38
23	24	24.50	0.00	9.85	52.53
24	24	24.50	0.00	9.85	52.53
24	25	24.95	0.00	9.85	48.10
25	25	24.95	0.00	9.85	48.10
25	26	26.40	0.00	9.85	33.82
26	26	26.40	0.00	9.85	33.82

27	27	27.85	0.00	9.85	19.53
27	28	29.30	0.00	9.85	5.25
28	28	29.30	0.09	9.85	5.25
28	29	30.75	0.09	9.85	-9.04
29	29	30.75	0.09	9.85	-9.04
29	30	32.20	0.09	9.85	-23.32
30	30	32.20	0.00	9.85	-23.32
30	31	33.65	0.00	9.85	-37.60
31	31	33.65	0.00	9.85	-37.60
31	32	35.10	0.00	9.85	-51.89
32	32	35.10	0.00	9.85	-51.89
32	33	36.55	0.00	9.85	-66.17
33	33	36.55	0.00	9.85	-66.17
33	34	38.00	0.00	9.85	-80.45
34	34	38.00	0.00	9.85	-80.45
34	35	39.45	0.00	9.85	-94.74
35	35	39.45	0.00	9.85	-94.74
35	36	40.90	0.00	9.85	-109.02
36	36	40.90	0.00	9.85	-109.02
36	37	42.35	0.00	9.85	-123.30
37	37	42.35	0.00	9.85	-123.30
37	38	43.80	0.00	9.85	-137.59
38	38	43.80	-0.09	9.85	-137.59
38	39	45.25	-0.09	9.85	-151.87
39	39	45.25	-0.09	9.85	-151.87
39	40	46.70	-0.09	9.85	-166.15
40	40	46.70	0.00	9.85	-166.15
40	41	48.15	0.00	9.85	-180.44
41	41	48.15	0.00	9.85	-180.44
41	42	49.60	0.00	9.85	-194.72
42	42	49.60	0.00	9.85	-194.72
42	43	51.05	0.00	9.85	-209.01
43	43	51.05	0.00	9.85	-209.01
43	44	51.50	0.00	9.85	-213.44
44	44	51.50	0.00	9.85	-213.44
44	45	52.50	0.00	9.85	-223.29
45	1045	52.50	0.00	-56.34	-223.29
45	46	53.50	0.00	-56.34	-166.95
46	46	53.50	0.00	-56.34	-166.95
46	47	53.95	0.00	-56.34	-141.60
47	47	53.95	0.00	-56.34	-141.60
47	48	55.40	0.00	-56.34	-59.90
48	48	55.40	0.00	-56.34	-59.90
48	49	56.85	0.00	-46.59	17.94
49	49	56.85	0.00	-46.59	17.94
49	50	58.30	0.00	-46.59	85.49
50	50	58.30	-0.45	-46.59	85.49
50	51	59.75	-0.45	-46.59	153.05
51	51	59.75	-0.45	-46.59	153.05
51	52	61.20	-0.30	-30.84	205.96
52	52	61.20	0.00	-30.84	205.96
52	53	62.65	0.00	-30.84	250.67
53	53	62.65	0.00	-30.84	250.67
53	54	64.10	0.00	-30.84	295.39
54	54	64.10	0.00	-30.84	295.39
54	55	65.55	0.00	-2.65	317.88
55	55	65.55	0.00	-2.65	317.88
55	56	67.00	0.00	-2.65	321.73
56	56	67.00	0.00	-2.65	321.73
56	57	68.45	0.00	-2.65	325.58
57	57	68.45	0.00	-2.65	325.58
57	58	69.90	0.00	25.53	310.79
58	58	69.90	0.00	25.53	310.79
58	59	71.35	0.00	25.53	273.77
59	59	71.35	0.00	25.53	273.77
59	60	72.80	0.00	25.53	236.75
60	60	72.80	-0.24	25.53	236.75
60	61	74.25	-0.40	41.28	191.54
61	61	74.25	-0.40	41.28	191.54
61	62	75.70	-0.40	41.28	131.69
62	62	75.70	0.00	41.28	131.69
62	63	77.15	0.00	41.28	71.83
63	63	77.15	0.00	41.28	71.83
63	64	78.60	0.00	51.03	1.69
64	64	78.60	0.00	51.03	1.69
64	65	80.05	0.00	51.03	-72.30
65	65	80.05	0.00	51.03	-72.30
65	66	80.50	0.00	51.03	-95.27
66	66	80.50	0.00	51.03	-95.27
66	67	81.50	0.00	51.03	-146.30
67	1067	81.50	0.00	-0.55	-146.30
67	68	82.50	0.00	-0.55	-145.75
68	68	82.50	0.00	-0.55	-145.75
68	69	83.08	0.00	-0.55	-145.43
69	69	83.08	0.00	-0.55	-145.43
69	70	84.65	0.00	-0.55	-144.56
70	70	84.65	0.00	-0.55	-144.56
70	71	86.23	0.00	-0.55	-143.69
71	71	86.23	0 00	-0.55	-143.69
71	72	87.80	0.00	-0.55	-142.83
72	72	87.80	0.00	-0.55	-142.83
72	73	89.38	0.00	-0.55	-141.96
73	73	89.38	0.00	-0.55	-141.96
73	74	90.95	0.00	-0.55	-141.09
74	74	90.95	0.00	-0.55	-141.09
74	75	92.53	0.00	-0.55	-140.22
75	75	92.53	0.00	-0.55	-140.22
75	76	94.10	0.00	-0.55	-139.35
76	76	94.10	0.00	-0.55	-139.35
76	77	95.68	0.00	-0.55	-138.49
77	77	95.68	0.00	-0.55	-138.49
77	78	97.25	0.00	-0.55	-137.62
78	78	97.25	0.00	-0.55	-137.62
78	79	98.83	0.00	-0.55	-136.75
79	79	98.83	0.00	-0.55	-136.75
79	80	100.40	0.00	-0.55	-135.88
80	80	100.40	0.00	-0.55	-135.88
80	81	101.98	0.00	-0.55	-135.02
81	81	101.98	0.00	-0.55	-135.02
81	82	103.55	0.00	-0.55	-134.15
82	82	103.55	0.00	-0.55	-134.15
82	83	105.13	0.00	-0.55	-133.28
83	83	105.13	0.00	-0.55	-133.28
83	84	106.70	0.00	-0.55	-132.41
84	84	106.70	0.00	-0.55	-132.41
84	85	108.28	0.00	-0.55	-131.54
85	85	108.28	0.00	-0.55	-131.54
85	86	109.85	0.00	-0.55	-130.68
86	86	109.85	0.00	-0.55	-130.68
86	87	111.43	0.00	-0.55	-129.81
87	87	111.43	0.00	-0.55	-129.81

87	88	112.00	0.00	-0.55	-129.49
88	88	112.00	0.00	-0.55	-129.49
88	89	113.00	0.00	-0.55	-128.94
89	1089	113.00	0.00	-44.20	-128.94
89	90	114.00	0.00	-44.20	-84.73
90	90	114.00	0.00	-44.20	-84.73
90	91	114.58	0.00	-44.20	-59.32
91	91	114.58	0.00	-44.20	-59.32
91	92	116.15	0.00	-44.20	10.31
92	92	116.15	0.00	-44.20	10.31
92	93	117.73	0.00	-44.20	79.93
93	93	117.73	0.00	-44.20	79.93
93	94	119.30	0.00	-34.45	138.87
94	94	119.30	-0.30	-34.45	138.87
94	95	120.88	-0.30	-34.45	193.14
95	95	120.88	-0.30	-34.45	193.14
95	96	122.45	-0.17	-18.70	240.63
96	96	122.45	0.00	-18.70	240.63
96	97	124.03	0.00	-18.70	270.09
97	97	124.03	0.00	-18.70	270.09
97	98	125.60	0.00	-18.70	299.55
98	98	125.60	0.00	-18.70	299.55
98	99	127.18	0.00	-4.02	309.70
99	99	127.18	0.00	-4.02	309.70
99	100	128.75	0.00	9.48	295.38
100	100	128.75	0.00	9.48	295.38
100	101	130.33	0.00	22.98	279.84
101	101	130.33	0.00	22.98	279.84
101	102	131.90	0.00	37.67	239.83
102	102	131.90	0.00	37.67	239.83
102	103	133.48	0.00	37.67	180.51
103	103	133.48	0.00	37.67	180.51
103	104	135.05	0.00	37.67	121.18
104	104	135.05	-0.33	37.66	121.18
104	105	136.63	-0.47	53.41	43.83
105	105	136.63	-0.47	53.41	43.83
105	106	138.20	-0.47	53.41	-40.30
106	106	138.20	0.00	53.42	-40.30
106	107	139.78	0.00	63.17	-129.11
107	107	139.78	0.00	63.17	-129.11
107	108	141.35	0.00	63.17	-228.60
108	108	141.35	0.00	63.17	-228.60
108	109	142.93	0.00	63.17	-328.08
109	109	142.93	0.00	63.17	-328.08
109	110	143.50	0.00	63.17	-364.41
110	110	143.50	0.00	63.17	-364.41
110	111	144.50	0.00	63.17	-427.57
111	1111	144.50	0.00	-71.88	-427.57
111	112	145.50	0.00	-71.88	-355.68
112	112	145.50	0.00	-71.88	-355.68
112	113	145.68	0.00	-71.88	-343.11
113	113	145.68	0.00	-71.88	-343.11
113	114	146.85	0.00	-62.13	-269.81
114	114	146.85	0.00	-62.13	-269.81
114	115	148.03	0.00	-62.13	-196.81
115	115	148.03	0.00	-62.13	-196.81
115	116	149.20	0.00	-62.13	-123.81
116	116	149.20	-0.74	-62.13	-123.81
116	117	150.38	-0.55	-46.38	-64.28
117	117	150.38	-0.55	-46.38	-64.28
117	118	151.55	-0.55	-46.38	-9.78
118	118	151.55	0.00	-46.38	-9.78
118	119	152.73	0.00	-46.38	44.72
119	119	152.73	0.00	-46.38	44.72
119	120	153.90	0.00	-31.69	91.28
120	120	153.90	0.00	-31.69	91.28
120	121	155.08	0.00	-18.19	123.73
121	121	155.08	0.00	-18.19	123.73
121	122	156.25	0.00	-18.19	145.11
122	122	156.25	0.00	-18.19	145.11
122	123	157.43	0.00	-18.19	166.49
123	123	157.43	0.00	-18.19	166.49
123	124	158.60	0.00	-4.69	176.80
124	124	158.60	0.00	-4.69	176.80
124	125	159.78	0.00	9.99	172.99
125	125	159.78	0.00	9.99	172.99
125	126	160.95	0.00	9.99	161.25
126	126	160.95	0.00	9.99	161.25
126	127	162.13	0.00	9.99	149.51
127	127	162.13	0.00	9.99	149.51
127	128	163.30	0.00	25.74	132.73
128	128	163.30	0.00	25.74	132.73
128	129	164.48	0.00	25.74	102.48
129	129	164.48	0.00	25.74	102.48
129	130	165.65	0.00	25.74	72.24
130	130	165.65	0.00	25.74	72.24
130	131	166.83	0.00	35.49	41.70
131	131	166.83	0.00	35.49	41.70
131	132	167.00	0.00	35.49	35.49
132	132	167.00	0.00	35.49	35.49
132	133	168.00	0.00	35.49	0.00

$\Delta M_{85}^{-} \begin{cases} Q^{-} = 63.17^{+} \\ Q^{+} = -71.88^{+} \end{cases}$

GRÁFICO DE ESFUERZOS (FASE VII)



MOVIMIENTOS PRUEBA DE CARGA

CALCULO DE DESPLAZAMIENTOS

Hipotesis de calculo

FASE I

PRUEBA CARGA POS IMPARES

[1: 1]PC

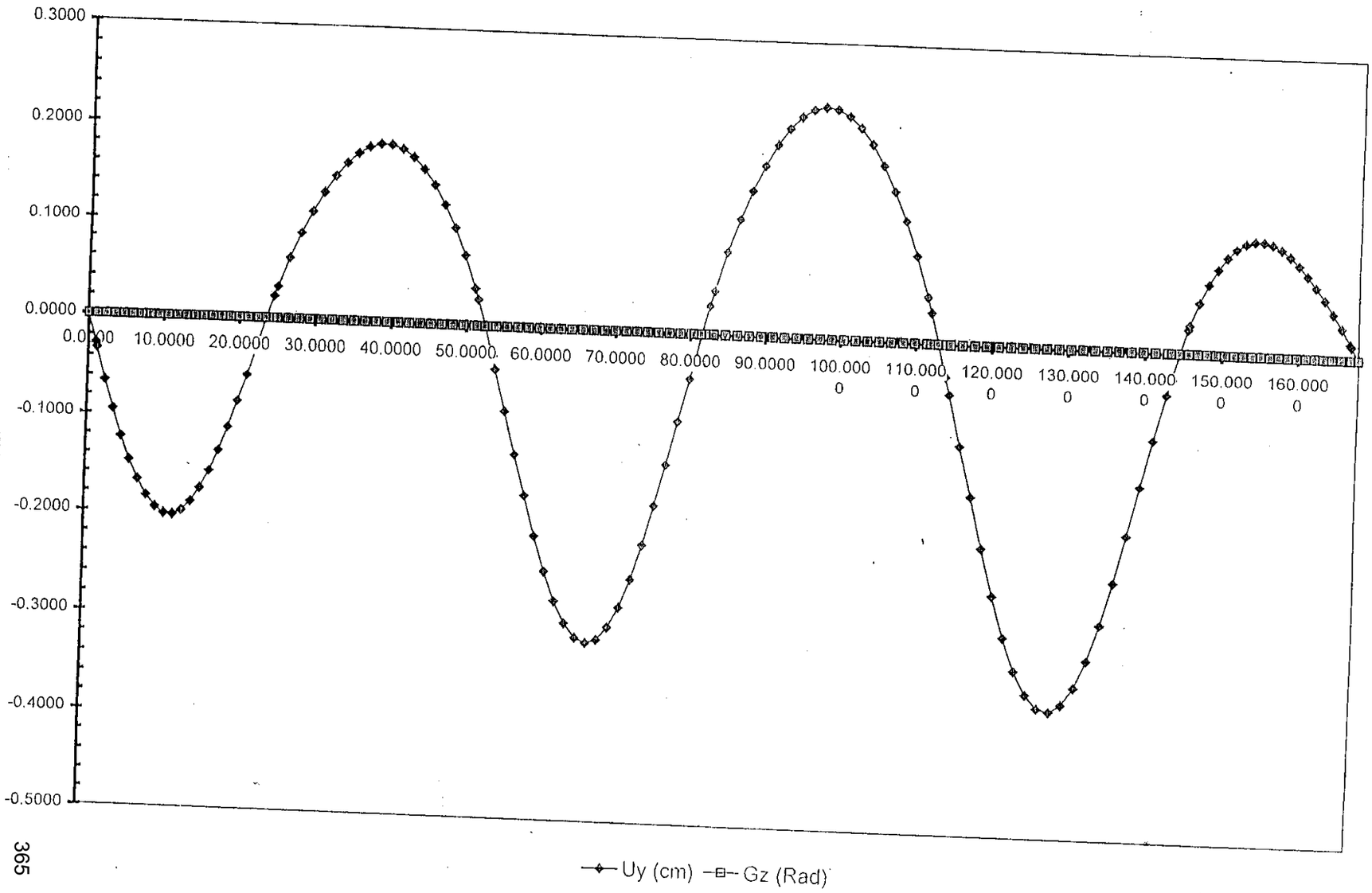
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)	
1	0.0000	0.0000	-0.0003	
2	1.0000	-0.0281	-0.0003	
3	1.1750	-0.0330	-0.0003	
4	2.3500	-0.0651	-0.0003	
5	3.5250	-0.0954	-0.0003	
6	4.7000	-0.1231	-0.0002	
7	5.8750	-0.1475	-0.0002	
8	7.0500	-0.1681	-0.0002	
9	8.2250	-0.1842	-0.0001	
10	9.4000	-0.1956	-0.0001	
11	10.5750	-0.2018	0.0000	
12	11.7500	-0.2028	0.0000	← u_1
13	12.9250	-0.1986	0.0001	
14	14.1000	-0.1894	0.0001	
15	15.2750	-0.1754	0.0001	
16	16.4500	-0.1572	0.0002	
17	17.6250	-0.1354	0.0002	
18	18.8000	-0.1107	0.0002	
19	19.9750	-0.0839	0.0002	
20	21.1500	-0.0559	0.0002	
21	22.3250	-0.0276	0.0002	
22	22.5000	-0.0234	0.0002	
23	23.5000	0.0000	0.0002	
1023	23.5000	0.0000	0.0002	
24	24.5000	0.0223	0.0002	
25	24.9500	0.0319	0.0002	
26	26.4000	0.0610	0.0002	
27	27.8500	0.0874	0.0002	
28	29.3000	0.1108	0.0002	
29	30.7500	0.1312	0.0001	
30	32.2000	0.1484	0.0001	
31	33.6500	0.1623	0.0001	
32	35.1000	0.1728	0.0001	
33	36.5500	0.1798	0.0000	
34	38.0000	0.1831	0.0000	← u_2
35	39.4500	0.1828	0.0000	
36	40.9000	0.1787	0.0000	
37	42.3500	0.1706	-0.0001	
38	43.8000	0.1586	-0.0001	
39	45.2500	0.1426	-0.0001	
40	46.7000	0.1224	-0.0002	
41	48.1500	0.0982	-0.0002	
42	49.6000	0.0697	-0.0002	
43	51.0500	0.0370	-0.0002	
44	51.5000	0.0260	-0.0003	
45	52.5000	0.0000	-0.0003	
1045	52.5000	0.0000	-0.0003	
46	53.5000	-0.0280	-0.0003	
47	53.9500	-0.0412	-0.0003	
48	55.4000	-0.0848	-0.0003	
49	56.8500	-0.1290	-0.0003	
50	58.3000	-0.1718	-0.0003	
51	59.7500	-0.2117	-0.0003	
52	61.2000	-0.2469	-0.0002	
53	62.6500	-0.2761	-0.0002	
54	64.1000	-0.2981	-0.0001	
55	65.5500	-0.3120	-0.0001	
56	67.0000	-0.3171	0.0000	← u_3
57	68.4500	-0.3134	0.0001	
58	69.9000	-0.3009	0.0001	
59	71.3500	-0.2801	0.0002	
60	72.8000	-0.2518	0.0002	
61	74.2500	-0.2171	0.0003	
62	75.7000	-0.1773	0.0003	
63	77.1500	-0.1341	0.0003	
64	78.6000	-0.0889	0.0003	
65	80.0500	-0.0436	0.0003	
66	80.5000	-0.0298	0.0003	
67	81.5000	0.0000	0.0003	
1067	81.5000	0.0000	0.0003	
68	82.5000	0.0282	0.0003	
69	83.0750	0.0436	0.0003	
70	84.6500	0.0830	0.0002	
71	86.2250	0.1180	0.0002	
72	87.8000	0.1487	0.0002	
73	89.3750	0.1750	0.0002	
74	90.9500	0.1968	0.0001	
75	92.5250	0.2140	0.0001	
76	94.1000	0.2264	0.0001	
77	95.6750	0.2342	0.0000	
78	97.2500	0.2372	0.0000	← u_4
79	98.8250	0.2354	0.0000	
80	100.4000	0.2287	-0.0001	
81	101.9750	0.2173	-0.0001	
82	103.5500	0.2009	-0.0001	
83	105.1250	0.1795	-0.0002	
84	106.7000	0.1533	-0.0002	
85	108.2750	0.1223	-0.0002	
86	109.8500	0.0864	-0.0002	
87	111.4250	0.0457	-0.0003	
88	112.0000	0.0296	-0.0003	
89	113.0000	0.0000	-0.0003	
1089	113.0000	0.0000	-0.0003	
90	114.0000	-0.0315	-0.0003	
91	114.5750	-0.0502	-0.0003	
92	116.1500	-0.1031	-0.0003	
93	117.7250	-0.1562	-0.0003	
94	119.3000	-0.2074	-0.0003	
95	120.8750	-0.2546	-0.0003	
96	122.4500	-0.2957	-0.0002	
97	124.0250	-0.3290	-0.0002	
98	125.6000	-0.3531	-0.0001	
99	127.1750	-0.3670	-0.0001	
100	128.7500	-0.3701	0.0000	← u_5
101	130.3250	-0.3624	0.0001	
102	131.9000	-0.3442	0.0002	
103	133.4750	-0.3162	0.0002	
104	135.0500	-0.2801	0.0003	
105	136.6250	-0.2372	0.0003	
106	138.2000	-0.1897	0.0003	
107	139.7750	-0.1398	0.0003	
108	141.3500	-0.0898	0.0003	
109	142.9250	-0.0424	0.0003	
110	143.5000	-0.0262	0.0003	

1111	144.5000	0.0000	0.0003
112	145.5000	0.0232	0.0002
113	145.6750	0.0270	0.0002
114	146.8500	0.0498	0.0002
115	148.0250	0.0689	0.0002
116	149.2000	0.0843	0.0001
117	150.3750	0.0962	0.0001
118	151.5500	0.1049	0.0001
119	152.7250	0.1105	0.0000
120	153.9000	0.1132	0.0000
121	155.0750	0.1131	0.0000
122	156.2500	0.1107	0.0000
123	157.4250	0.1060	-0.0001
124	158.6000	0.0993	-0.0001
125	159.7750	0.0908	-0.0001
126	160.9500	0.0807	-0.0001
127	162.1250	0.0693	-0.0001
128	163.3000	0.0568	-0.0001
129	164.4750	0.0434	-0.0001
130	165.6500	0.0293	-0.0001
131	166.8250	0.0148	-0.0001
132	167.0000	0.0126	-0.0001
133	168.0000	0.0000	-0.0001

+ 4/6

GRÁFICO DE DESPLAZAMIENTOS (FASE I)



Hipotesis de calculo:
FASE II

PRUEBA CARGA POS PARES

[1, 1]PC2

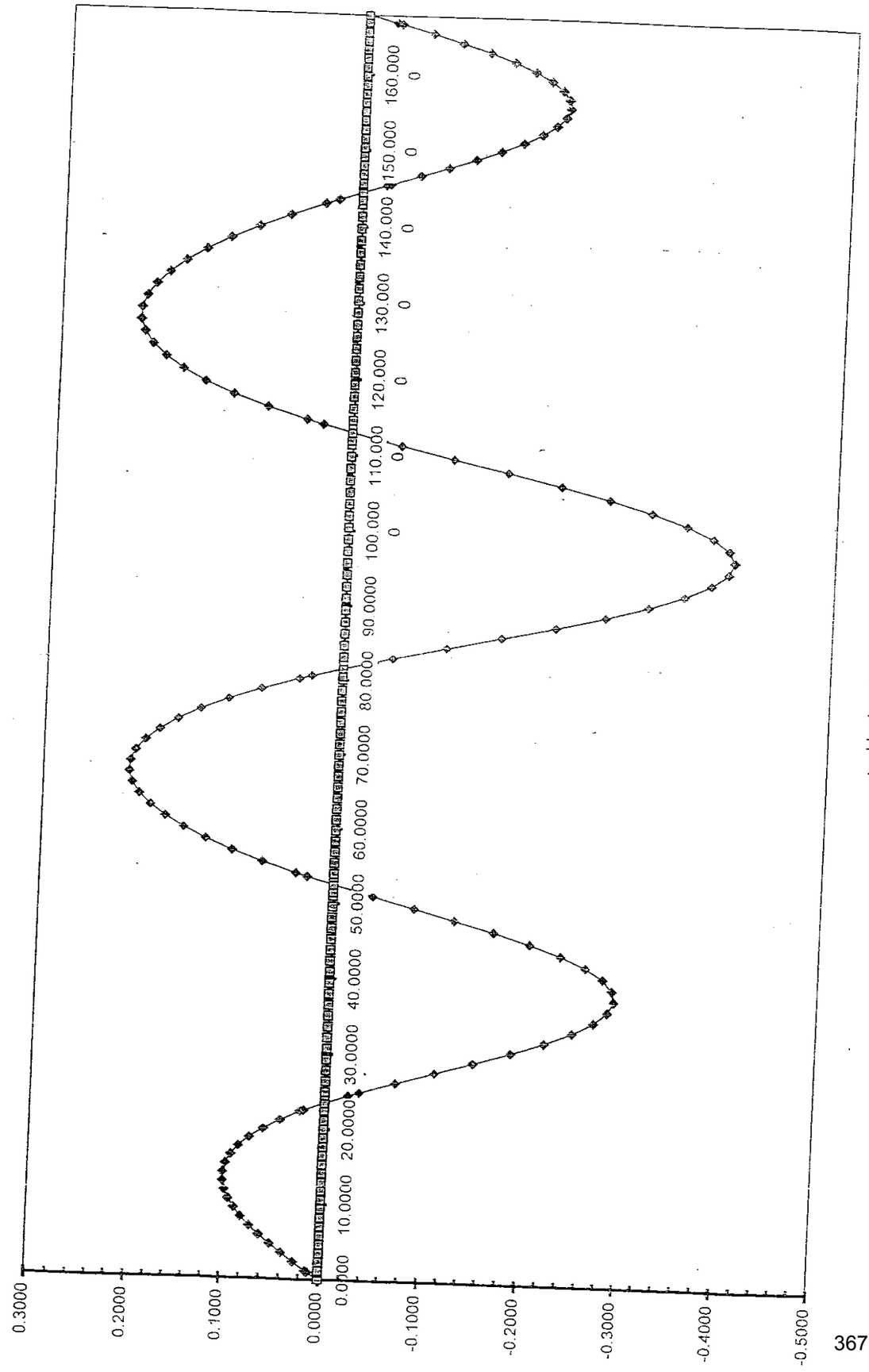
Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)	
1	0.0000	0.0000	0.0001	
2	1.0000	0.0110	0.0001	
3	1.1750	0.0130	0.0001	
4	2.3500	0.0257	0.0001	
5	3.5250	0.0381	0.0001	
6	4.7000	0.0498	0.0001	
7	5.8750	0.0608	0.0001	
8	7.0500	0.0708	0.0001	
9	8.2250	0.0797	0.0001	
10	9.4000	0.0871	0.0001	
11	10.5750	0.0930	0.0000	
12	11.7500	0.0972	0.0000	← u_1
13	12.9250	0.0993	0.0000	
14	14.1000	0.0994	0.0000	
15	15.2750	0.0970	0.0000	
16	16.4500	0.0921	-0.0001	
17	17.6250	0.0845	-0.0001	
18	18.8000	0.0740	-0.0001	
19	19.9750	0.0605	-0.0001	
20	21.1500	0.0438	-0.0002	
21	22.3250	0.0237	-0.0002	
22	22.5000	0.0204	-0.0002	
23	23.5000	0.0000	-0.0002	
1023	23.5000	0.0000	-0.0002	
24	24.5000	-0.0230	-0.0002	
25	24.9500	-0.0340	-0.0003	
26	26.4000	-0.0717	-0.0003	
27	27.8500	-0.1110	-0.0003	
28	29.3000	-0.1501	-0.0003	
29	30.7500	-0.1872	-0.0003	
30	32.2000	-0.2206	-0.0002	
31	33.6500	-0.2487	-0.0002	
32	35.1000	-0.2704	-0.0001	
33	36.5500	-0.2847	-0.0001	
34	38.0000	-0.2909	0.0000	← u_2
35	39.4500	-0.2887	0.0000	
36	40.9000	-0.2783	0.0001	
37	42.3500	-0.2598	0.0002	
38	43.8000	-0.2342	0.0002	
39	45.2500	-0.2024	0.0002	
40	46.7000	-0.1656	0.0003	
41	48.1500	-0.1254	0.0003	
42	49.6000	-0.0833	0.0003	
43	51.0500	-0.0409	0.0003	
44	51.5000	-0.0279	0.0003	
45	52.5000	0.0000	0.0003	
1045	52.5000	0.0000	0.0003	
46	53.5000	0.0264	0.0003	
47	53.9500	0.0378	0.0003	
48	55.4000	0.0722	0.0002	
49	56.8500	0.1032	0.0002	
50	58.3000	0.1305	0.0002	
51	59.7500	0.1542	0.0002	
52	61.2000	0.1741	0.0001	
53	62.6500	0.1900	0.0001	
54	64.1000	0.2019	0.0001	
55	65.5500	0.2096	0.0000	
56	67.0000	0.2131	0.0000	← u_3
57	68.4500	0.2123	0.0000	
58	69.9000	0.2071	-0.0001	
59	71.3500	0.1974	-0.0001	
60	72.8000	0.1832	-0.0001	
61	74.2500	0.1643	-0.0002	
62	75.7000	0.1408	-0.0002	
63	77.1500	0.1127	-0.0002	
64	78.6000	0.0800	-0.0002	
65	80.0500	0.0424	-0.0003	
66	80.5000	0.0298	-0.0003	
67	81.5000	0.0000	-0.0003	
1067	81.5000	0.0000	-0.0003	
68	82.5000	-0.0320	-0.0003	
69	83.0750	-0.0512	-0.0003	
70	84.6500	-0.1058	-0.0004	
71	86.2250	-0.1612	-0.0004	
72	87.8000	-0.2152	-0.0003	
73	89.3750	-0.2654	-0.0003	
74	90.9500	-0.3098	-0.0003	
75	92.5250	-0.3463	-0.0002	
76	94.1000	-0.3737	-0.0001	
77	95.6750	-0.3905	-0.0001	
78	97.2500	-0.3962	0.0000	← u_4
79	98.8250	-0.3905	0.0001	
80	100.4000	-0.3736	0.0001	
81	101.9750	-0.3463	0.0002	
82	103.5500	-0.3097	0.0003	
83	105.1250	-0.2653	0.0003	
84	106.7000	-0.2151	0.0003	
85	108.2750	-0.1612	0.0004	
86	109.8500	-0.1057	0.0004	
87	111.4250	-0.0512	0.0003	
88	112.0000	-0.0320	0.0003	
89	113.0000	0.0000	0.0003	
1089	113.0000	0.0000	0.0003	
90	114.0000	0.0297	0.0003	
91	114.5750	0.0458	0.0003	
92	116.1500	0.0859	0.0002	
93	117.7250	0.1206	0.0002	
94	119.3000	0.1498	0.0002	
95	120.8750	0.1739	0.0001	
96	122.4500	0.1929	0.0001	
97	124.0250	0.2067	0.0001	
98	125.6000	0.2156	0.0000	
99	127.1750	0.2198	0.0000	
100	128.7500	0.2194	0.0000	← u_5
101	130.3250	0.2145	0.0000	
102	131.9000	0.2054	-0.0001	
103	133.4750	0.1921	-0.0001	
104	135.0500	0.1750	-0.0001	
105	136.6250	0.1540	-0.0001	
106	138.2000	0.1295	-0.0002	
107	139.7750	0.1017	-0.0002	
108	141.3500	0.0707	-0.0002	
109	142.9250	0.0368	-0.0002	
110	143.5000	0.0237	-0.0002	

1111	144.5000	0.0000	-0.0002
112	145.5000	-0.0247	-0.0003
113	145.6750	-0.0290	-0.0003
114	146.8500	-0.0585	-0.0003
115	148.0250	-0.0874	-0.0002
116	149.2000	-0.1149	-0.0002
117	150.3750	-0.1401	-0.0002
118	151.5500	-0.1622	-0.0002
119	152.7250	-0.1806	-0.0001
120	153.9000	-0.1946	-0.0001
121	155.0750	-0.2037	-0.0001
122	156.2500	-0.2077	0.0000
123	157.4250	-0.2064	0.0000
124	158.6000	-0.1998	0.0001
125	159.7750	-0.1881	0.0001
126	160.9500	-0.1714	0.0002
127	162.1250	-0.1504	0.0002
128	163.3000	-0.1254	0.0002
129	164.4750	-0.0971	0.0003
130	165.6500	-0.0662	0.0003
131	166.8250	-0.0336	0.0003
132	167.0000	-0.0286	0.0003
133	168.0000	0.0000	0.0003

← 46

GRÁFICO DE DESPLAZAMIENTOS (FASE II)



CALCULO DE DESPLAZAMIENTOS

Hipotesis de calculo

FASE III

PRUEBA CARGA PILA 1

[1.]PC3

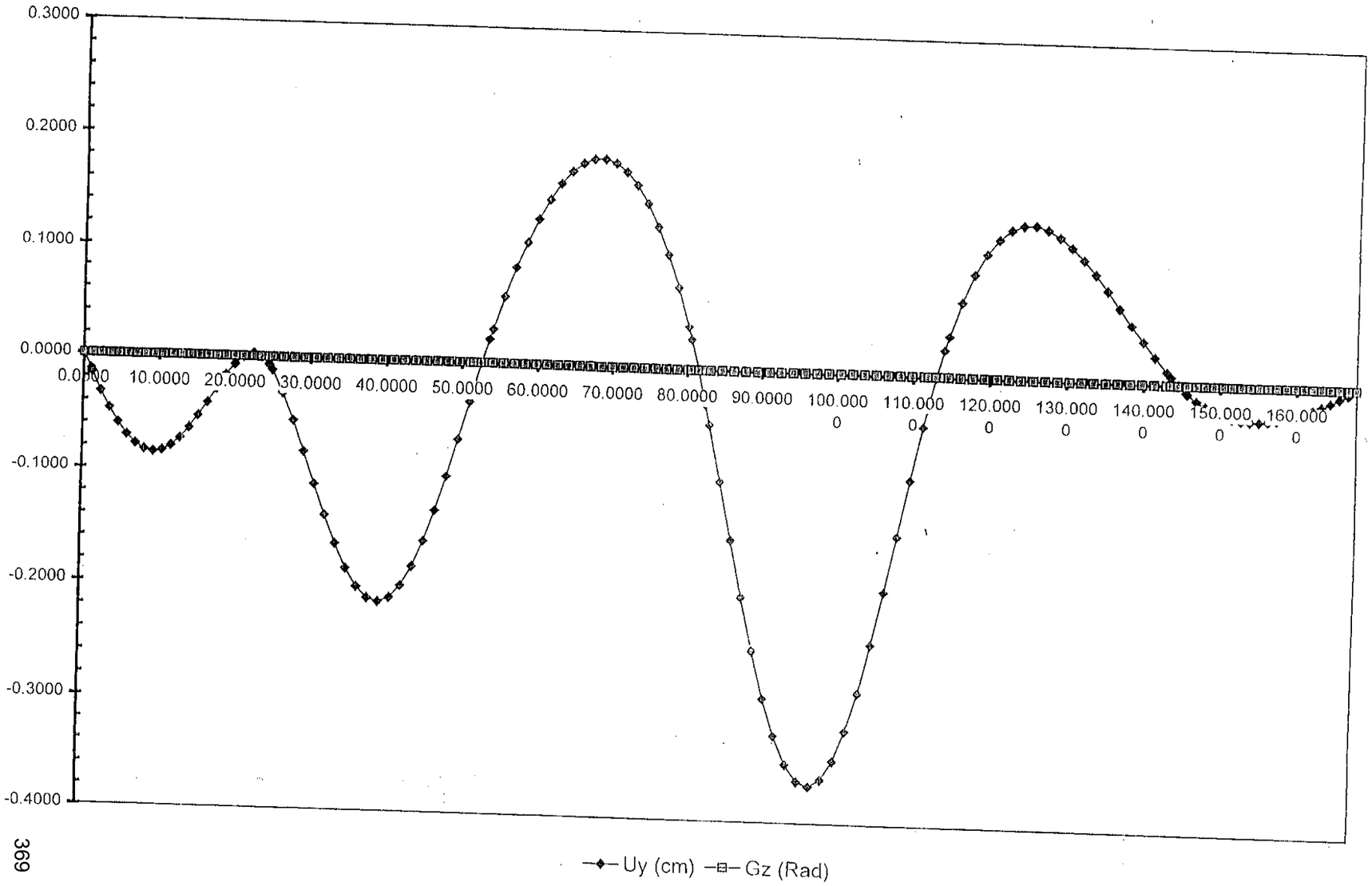
Def. exc:

Nudo	X	Uy (cm)	Gz (Rad)	
1	0.0000	0.0000	-0.0001	
2	1.0000	-0.0141	-0.0001	
3	1.1750	-0.0166	-0.0001	
4	2.3500	-0.0325	-0.0001	
5	3.5250	-0.0471	-0.0001	
6	4.7000	-0.0599	-0.0001	
7	5.8750	-0.0704	-0.0001	
8	7.0500	-0.0782	-0.0001	
9	8.2250	-0.0832	0.0000	
10	9.4000	-0.0850	0.0000	
11	10.5750	-0.0838	0.0000	
12	11.7500	-0.0795	0.0001	← u_1
13	12.9250	-0.0726	0.0001	
14	14.1000	-0.0633	0.0001	
15	15.2750	-0.0523	0.0001	
16	16.4500	-0.0403	0.0001	
17	17.6250	-0.0282	0.0001	
18	18.8000	-0.0168	0.0001	
19	19.9750	-0.0072	0.0001	
20	21.1500	-0.0004	0.0000	
21	22.3250	0.0024	0.0000	
22	22.5000	0.0024	0.0000	
23	23.5000	0.0000	-0.0001	
1023	23.5000	0.0000	-0.0001	
24	24.5000	-0.0069	-0.0001	
25	24.9500	-0.0113	-0.0001	
26	26.4000	-0.0302	-0.0002	
27	27.8500	-0.0544	-0.0002	
28	29.3000	-0.0817	-0.0002	
29	30.7500	-0.1102	-0.0002	
30	32.2000	-0.1379	-0.0002	
31	33.6500	-0.1631	-0.0002	
32	35.1000	-0.1844	-0.0001	
33	36.5500	-0.2003	-0.0001	
34	38.0000	-0.2101	0.0000	← u_2
35	39.4500	-0.2132	0.0000	
36	40.9000	-0.2093	0.0001	
37	42.3500	-0.1985	0.0001	
38	43.8000	-0.1814	0.0001	
39	45.2500	-0.1586	0.0002	
40	46.7000	-0.1311	0.0002	
41	48.1500	-0.1002	0.0002	
42	49.6000	-0.0671	0.0002	
43	51.0500	-0.0332	0.0002	
44	51.5000	-0.0227	0.0002	
45	52.5000	0.0000	0.0002	
1045	52.5000	0.0000	0.0002	
46	53.5000	0.0217	0.0002	
47	53.9500	0.0311	0.0002	
48	55.4000	0.0599	0.0002	
49	56.8500	0.0861	0.0002	
50	58.3000	0.1096	0.0002	
51	59.7500	0.1303	0.0001	
52	61.2000	0.1480	0.0001	
53	62.6500	0.1626	0.0001	
54	64.1000	0.1738	0.0001	
55	65.5500	0.1815	0.0000	
56	67.0000	0.1856	0.0000	← u_3
57	68.4500	0.1859	0.0000	
58	69.9000	0.1824	0.0000	
59	71.3500	0.1748	-0.0001	
60	72.8000	0.1631	-0.0001	
61	74.2500	0.1471	-0.0001	
62	75.7000	0.1267	-0.0002	
63	77.1500	0.1019	-0.0002	
64	78.6000	0.0726	-0.0002	
65	80.0500	0.0387	-0.0003	
66	80.5000	0.0272	-0.0003	
67	81.5000	0.0000	-0.0003	
1067	81.5000	0.0000	-0.0003	
68	82.5000	-0.0294	-0.0003	
69	83.0750	-0.0472	-0.0003	
70	84.6500	-0.0978	-0.0003	
71	86.2250	-0.1494	-0.0003	
72	87.8000	-0.1996	-0.0003	
73	89.3750	-0.2464	-0.0003	
74	90.9500	-0.2876	-0.0002	
75	92.5250	-0.3214	-0.0002	
76	94.1000	-0.3463	-0.0001	
77	95.6750	-0.3613	-0.0001	
78	97.2500	-0.3657	0.0000	← u_4
79	98.8250	-0.3593	0.0001	
80	100.4000	-0.3424	0.0001	
81	101.9750	-0.3157	0.0002	
82	103.5500	-0.2807	0.0003	
83	105.1250	-0.2387	0.0003	
84	106.7000	-0.1918	0.0003	
85	108.2750	-0.1421	0.0003	
86	109.8500	-0.0919	0.0003	
87	111.4250	-0.0437	0.0003	
88	112.0000	-0.0271	0.0003	
89	113.0000	0.0000	0.0003	
1089	113.0000	0.0000	0.0003	
90	114.0000	0.0244	0.0002	
91	114.5750	0.0372	0.0002	
92	116.1500	0.0678	0.0002	
93	117.7250	0.0923	0.0001	
94	119.3000	0.1112	0.0001	
95	120.8750	0.1248	0.0001	
96	122.4500	0.1336	0.0000	
97	124.0250	0.1379	0.0000	
98	125.6000	0.1382	0.0000	
99	127.1750	0.1349	0.0000	
100	128.7500	0.1286	-0.0001	← u_5
101	130.3250	0.1197	-0.0001	
102	131.9000	0.1086	-0.0001	
103	133.4750	0.0959	-0.0001	
104	135.0500	0.0820	-0.0001	
105	136.6250	0.0674	-0.0001	
106	138.2000	0.0526	-0.0001	
107	139.7750	0.0380	-0.0001	
108	141.3500	0.0240	-0.0001	
109	142.9250	0.0112	-0.0001	
110	143.5000	0.0069	-0.0001	

111	144.5000	0.0000	-0.0001
1111	144.5000	0.0000	-0.0001
112	145.5000	-0.0061	-0.0001
113	145.6750	-0.0071	-0.0001
114	146.8500	-0.0132	-0.0001
115	148.0250	-0.0182	0.0000
116	149.2000	-0.0223	0.0000
117	150.3750	-0.0254	0.0000
118	151.5500	-0.0277	0.0000
119	152.7250	-0.0292	0.0000
120	153.9000	-0.0299	0.0000
121	155.0750	-0.0299	0.0000
122	156.2500	-0.0292	0.0000
123	157.4250	-0.0280	0.0000
124	158.6000	-0.0262	0.0000
125	159.7750	-0.0240	0.0000
126	160.9500	-0.0213	0.0000
127	162.1250	-0.0183	0.0000
128	163.3000	-0.0150	0.0000
129	164.4750	-0.0115	0.0000
130	165.6500	-0.0077	0.0000
131	166.8250	-0.0039	0.0000
132	167.0000	-0.0033	0.0000
133	168.0000	0.0000	0.0000

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GRÁFICO DE DESPLAZAMIENTOS (FASE III)



CÁLCULO DE DESPLAZAMIENTOS

Hipótesis de cálculo

FASE IV

PC PILA 2

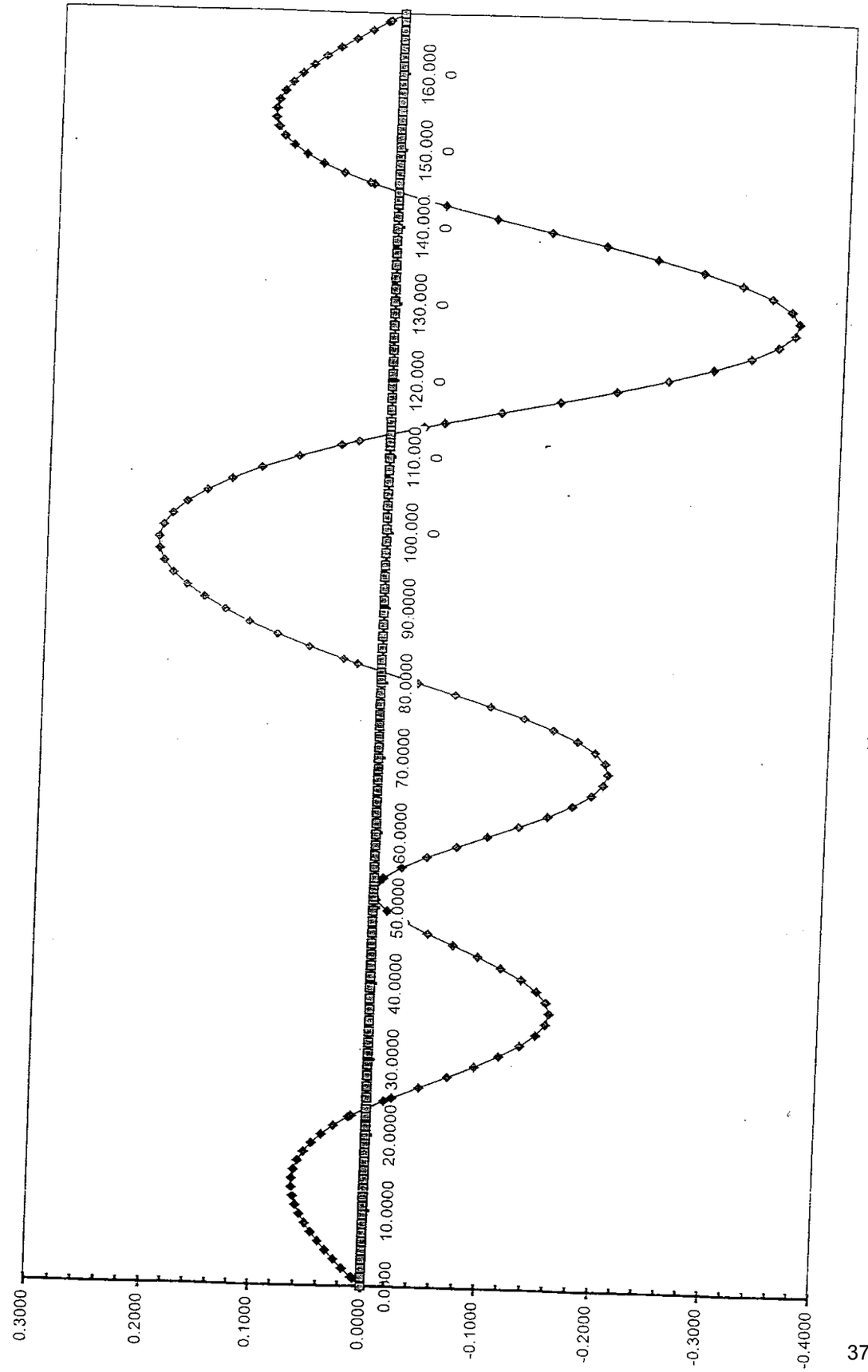
[1: 1]PC4

oef. exc:

Nudo	X	Uy (cm)	Gz (Rad)	
1	0.0000	0.0000	0.0001	
2	1.0000	0.0071	0.0001	
3	1.1750	0.0083	0.0001	
4	2.3500	0.0166	0.0001	
5	3.5250	0.0245	0.0001	
6	4.7000	0.0321	0.0001	
7	5.8750	0.0392	0.0001	
8	7.0500	0.0457	0.0001	
9	8.2250	0.0513	0.0000	
10	9.4000	0.0562	0.0000	
11	10.5750	0.0600	0.0000	
12	11.7500	0.0626	0.0000	← u_1
13	12.9250	0.0640	0.0000	
14	14.1000	0.0640	0.0000	
15	15.2750	0.0625	0.0000	
16	16.4500	0.0594	0.0000	
17	17.6250	0.0545	-0.0001	
18	18.8000	0.0477	-0.0001	
19	19.9750	0.0390	-0.0001	
20	21.1500	0.0282	-0.0001	
21	22.3250	0.0153	-0.0001	
22	22.5000	0.0131	-0.0001	
23	23.5000	0.0000	-0.0001	
1023	23.5000	0.0000	-0.0001	
24	24.5000	-0.0148	-0.0002	
25	24.9500	-0.0219	-0.0002	
26	26.4000	-0.0459	-0.0002	
27	27.8500	-0.0704	-0.0002	
28	29.3000	-0.0940	-0.0002	
29	30.7500	-0.1155	-0.0001	
30	32.2000	-0.1335	-0.0001	
31	33.6500	-0.1471	-0.0001	
32	35.1000	-0.1556	0.0000	
33	36.5500	-0.1584	0.0000	
34	38.0000	-0.1554	0.0000	← u_2
35	39.4500	-0.1468	0.0001	
36	40.9000	-0.1330	0.0001	
37	42.3500	-0.1150	0.0001	
38	43.8000	-0.0940	0.0002	
39	45.2500	-0.0716	0.0002	
40	46.7000	-0.0492	0.0002	
41	48.1500	-0.0288	0.0001	
42	49.6000	-0.0124	0.0001	
43	51.0500	-0.0020	0.0001	
44	51.5000	-0.0004	0.0000	
45	52.5000	0.0000	0.0000	
1045	52.5000	0.0000	0.0000	
46	53.5000	-0.0044	-0.0001	
47	53.9500	-0.0078	-0.0001	
48	55.4000	-0.0240	-0.0001	
49	56.8500	-0.0460	-0.0002	
50	58.3000	-0.0717	-0.0002	
51	59.7500	-0.0991	-0.0002	
52	61.2000	-0.1261	-0.0002	
53	62.6500	-0.1511	-0.0002	
54	64.1000	-0.1725	-0.0001	
55	65.5500	-0.1890	-0.0001	
56	67.0000	-0.1995	-0.0001	← u_3
57	68.4500	-0.2035	0.0000	
58	69.9000	-0.2007	0.0000	
59	71.3500	-0.1912	0.0001	
60	72.8000	-0.1753	0.0001	
61	74.2500	-0.1539	0.0002	
62	75.7000	-0.1276	0.0002	
63	77.1500	-0.0979	0.0002	
64	78.6000	-0.0657	0.0002	
65	80.0500	-0.0326	0.0002	
66	80.5000	-0.0224	0.0002	
67	81.5000	0.0000	0.0002	
1067	81.5000	0.0000	0.0002	
68	82.5000	0.0215	0.0002	
69	83.0750	0.0334	0.0002	
70	84.6500	0.0644	0.0002	
71	86.2250	0.0927	0.0002	
72	87.8000	0.1181	0.0002	
73	89.3750	0 1407	0.0001	
74	90.9500	0.1600	0.0001	
75	92.5250	0.1759	0.0001	
76	94.1000	0.1882	0.0001	
77	95.6750	0.1968	0.0000	
78	97.2500	0.2015	0.0000	← u_4
79	98.8250	0.2021	0.0000	
80	100.4000	0.1985	0.0000	
81	101.9750	0.1904	-0.0001	
82	103.5500	0.1778	-0.0001	
83	105.1250	0.1605	-0.0001	
84	106.7000	0.1384	-0.0002	
85	108.2750	0.1115	-0.0002	
86	109.8500	0.0795	-0.0002	
87	111.4250	0.0424	-0.0003	
88	112.0000	0.0276	-0.0003	
89	113.0000	0.0000	-0.0003	
1089	113.0000	0.0000	-0.0003	
90	114.0000	-0.0297	-0.0003	
91	114.5750	-0.0475	-0.0003	
92	116.1500	-0.0981	-0.0003	
93	117.7250	-0.1494	-0.0003	
94	119.3000	-0.1992	-0.0003	
95	120.8750	-0.2453	-0.0003	
96	122.4500	-0.2858	-0.0002	
97	124.0250	-0.3188	-0.0002	
98	125.6000	-0.3429	-0.0001	
99	127.1750	-0.3570	-0.0001	
100	128.7500	-0.3606	0.0000	← u_5
101	130.3250	-0.3536	0.0001	
102	131.9000	-0.3361	0.0001	
103	133.4750	-0.3091	0.0002	
104	135.0500	-0.2740	0.0003	
105	136.6250	-0.2322	0.0003	
106	138.2000	-0.1858	0.0003	
107	139.7750	-0.1370	0.0003	
108	141.3500	-0.0880	0.0003	
109	142.9250	-0.0415	0.0003	
110	143.5000	-0.0257	0.0003	

1111	144.5000	0.0000	0.0002
112	145.5000	0.0228	0.0002
113	145.6750	0.0264	0.0002
114	146.8500	0.0489	0.0002
115	148.0250	0.0675	0.0001
116	149.2000	0.0826	0.0001
117	150.3750	0.0944	0.0001
118	151.5500	0.1029	0.0001
119	152.7250	0.1083	0.0000
120	153.9000	0.1109	0.0000
121	155.0750	0.1109	0.0000
122	156.2500	0.1085	0.0000 ← u_6
123	157.4250	0.1039	-0.0001
124	158.6000	0.0973	-0.0001
125	159.7750	0.0890	-0.0001
126	160.9500	0.0791	-0.0001
127	162.1250	0.0679	-0.0001
128	163.3000	0.0557	-0.0001
129	164.4750	0.0425	-0.0001
130	165.6500	0.0287	-0.0001
131	166.8250	0.0145	-0.0001
132	167.0000	0.0123	-0.0001
133	168.0000	0.0000	-0.0001

GRÁFICO DE DESPLAZAMIENTOS (FASE IV)



CALCULO DE DESPLAZAMIENTOS

Hipotesis de calculo:

FASE V

PC PILA 3

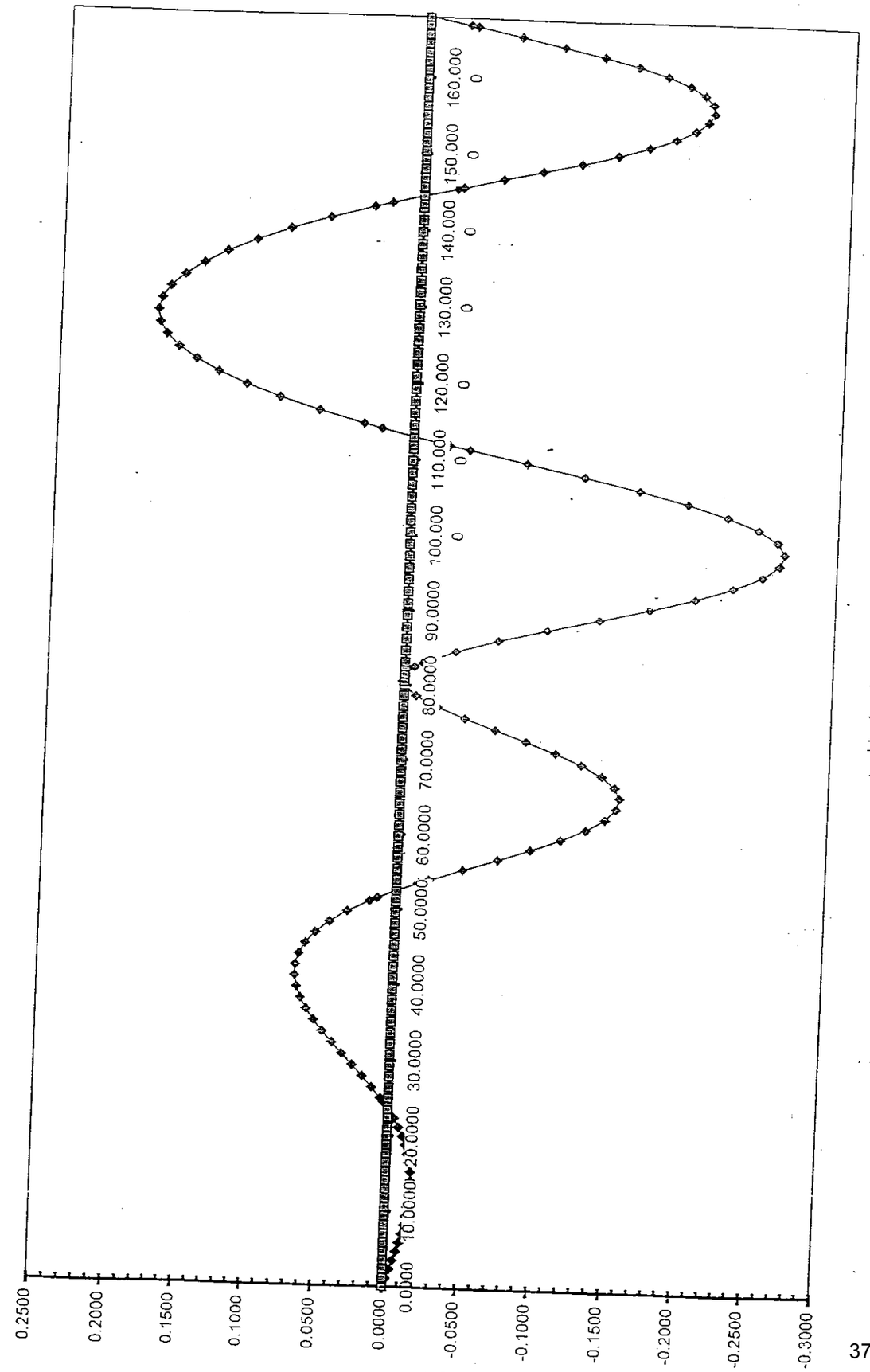
[1: 1]PC5

oef. exc:

Nudo	X	Uy (cm)	Gz (Rad)	
1	0.0000	0.0000	0.0000	
2	1.0000	-0.0019	0.0000	
3	1.1750	-0.0022	0.0000	
4	2.3500	-0.0043	0.0000	
5	3.5250	-0.0064	0.0000	
6	4.7000	-0.0084	0.0000	
7	5.8750	-0.0103	0.0000	
8	7.0500	-0.0120	0.0000	
9	8.2250	-0.0134	0.0000	
10	9.4000	-0.0147	0.0000	
11	10.5750	-0.0157	0.0000	
12	11.7500	-0.0164	0.0000	$\leftarrow u_1$
13	12.9250	-0.0168	0.0000	
14	14.1000	-0.0168	0.0000	
15	15.2750	-0.0164	0.0000	
16	16.4500	-0.0155	0.0000	
17	17.6250	-0.0143	0.0000	
18	18.8000	-0.0125	0.0000	
19	19.9750	-0.0102	0.0000	
20	21.1500	-0.0074	0.0000	
21	22.3250	-0.0040	0.0000	
22	22.5000	-0.0034	0.0000	
23	23.5000	0.0000	0.0000	
1023	23.5000	0.0000	0.0000	
24	24.5000	0.0039	0.0000	
25	24.9500	0.0058	0.0000	
26	26.4000	0.0123	0.0001	
27	27.8500	0.0193	0.0001	
28	29.3000	0.0266	0.0001	
29	30.7500	0.0340	0.0001	
30	32.2000	0.0413	0.0001	
31	33.6500	0.0482	0.0001	
32	35.1000	0.0545	0.0000	
33	36.5500	0.0599	0.0000	
34	38.0000	0.0643	0.0000	$\leftarrow u_2$
35	39.4500	0.0674	0.0000	
36	40.9000	0.0689	0.0000	
37	42.3500	0.0687	0.0000	
38	43.8000	0.0665	0.0000	
39	45.2500	0.0621	0.0000	
40	46.7000	0.0552	-0.0001	
41	48.1500	0.0458	-0.0001	
42	49.6000	0.0337	-0.0001	
43	51.0500	0.0184	-0.0001	
44	51.5000	0.0131	-0.0001	
45	52.5000	0.0000	-0.0001	
1045	52.5000	0.0000	-0.0001	
46	53.5000	-0.0146	-0.0002	
47	53.9500	-0.0216	-0.0002	
48	55.4000	-0.0451	-0.0002	
49	56.8500	-0.0691	-0.0002	
50	58.3000	-0.0919	-0.0002	
51	59.7500	-0.1126	-0.0001	
52	61.2000	-0.1298	-0.0001	
53	62.6500	-0.1425	-0.0001	
54	64.1000	-0.1501	0.0000	
55	65.5500	-0.1521	0.0000	
56	67.0000	-0.1484	0.0000	$\leftarrow u_3$
57	68.4500	-0.1392	0.0001	
58	69.9000	-0.1251	0.0001	
59	71.3500	-0.1070	0.0001	
60	72.8000	-0.0861	0.0002	
61	74.2500	-0.0640	0.0002	
62	75.7000	-0.0424	0.0001	
63	77.1500	-0.0231	0.0001	
64	78.6000	-0.0081	0.0001	
65	80.0500	0.0004	0.0000	
66	80.5000	0.0013	0.0000	
67	81.5000	0.0000	0.0000	
1067	81.5000	0.0000	0.0000	
68	82.5000	-0.0063	-0.0001	
69	83.0750	-0.0121	-0.0001	
70	84.6500	-0.0344	-0.0002	
71	86.2250	-0.0639	-0.0002	
72	87.8000	-0.0979	-0.0002	
73	89.3750	-0.1336	-0.0002	
74	90.9500	-0.1685	-0.0002	
75	92.5250	-0.2003	-0.0002	
76	94.1000	-0.2271	-0.0002	
77	95.6750	-0.2472	-0.0001	
78	97.2500	-0.2593	-0.0001	$\leftarrow u_4$
79	98.8250	-0.2628	0.0000	
80	100.4000	-0.2575	0.0001	
81	101.9750	-0.2434	0.0001	
82	103.5500	-0.2214	0.0002	
83	105.1250	-0.1925	0.0002	
84	106.7000	-0.1581	0.0002	
85	108.2750	-0.1198	0.0003	
86	109.8500	-0.0794	0.0003	
87	111.4250	-0.0388	0.0003	
88	112.0000	-0.0243	0.0003	
89	113.0000	0.0000	0.0002	
1089	113.0000	0.0000	0.0002	
90	114.0000	0.0228	0.0002	
91	114.5750	0.0353	0.0002	
92	116.1500	0.0668	0.0002	
93	117.7250	0.0945	0.0002	
94	119.3000	0.1185	0.0001	
95	120.8750	0.1387	0.0001	
96	122.4500	0.1552	0.0001	
97	124.0250	0.1679	0.0001	
98	125.6000	0.1768	0.0000	
99	127.1750	0.1819	0.0000	
100	128.7500	0.1833	0.0000	$\leftarrow u_5$
101	130.3250	0.1810	0.0000	
102	131.9000	0.1751	-0.0001	
103	133.4750	0.1654	-0.0001	
104	135.0500	0.1522	-0.0001	
105	136.6250	0.1353	-0.0001	
106	138.2000	0.1150	-0.0001	
107	139.7750	0.0913	-0.0002	
108	141.3500	0.0642	-0.0002	
109	142.9250	0.0337	-0.0002	
110	143.5000	0.0218	-0.0002	

1111	144.5000	0.0000	-0.0002
112	145.5000	-0.0230	-0.0002
113	145.6750	-0.0271	-0.0002
114	146.8500	-0.0550	-0.0002
115	148.0250	-0.0827	-0.0002
116	149.2000	-0.1092	-0.0002
117	150.3750	-0.1337	-0.0002
118	151.5500	-0.1553	-0.0002
119	152.7250	-0.1734	-0.0001
120	153.9000	-0.1872	-0.0001
121	155.0750	-0.1964	-0.0001
122	156.2500	-0.2005	0.0000 ← 116
123	157.4250	-0.1996	0.0000
124	158.6000	-0.1935	0.0001
125	159.7750	-0.1823	0.0001
126	160.9500	-0.1663	0.0002
127	162.1250	-0.1459	0.0002
128	163.3000	-0.1218	0.0002
129	164.4750	-0.0943	0.0003
130	165.6500	-0.0644	0.0003
131	166.8250	-0.0327	0.0003
132	167.0000	-0.0278	0.0003
133	168.0000	0.0000	0.0003

GRÁFICO DE DESPLAZAMIENTOS (FASE V)



Hipótesis de cálculo
FASE VI

PC PILA 4

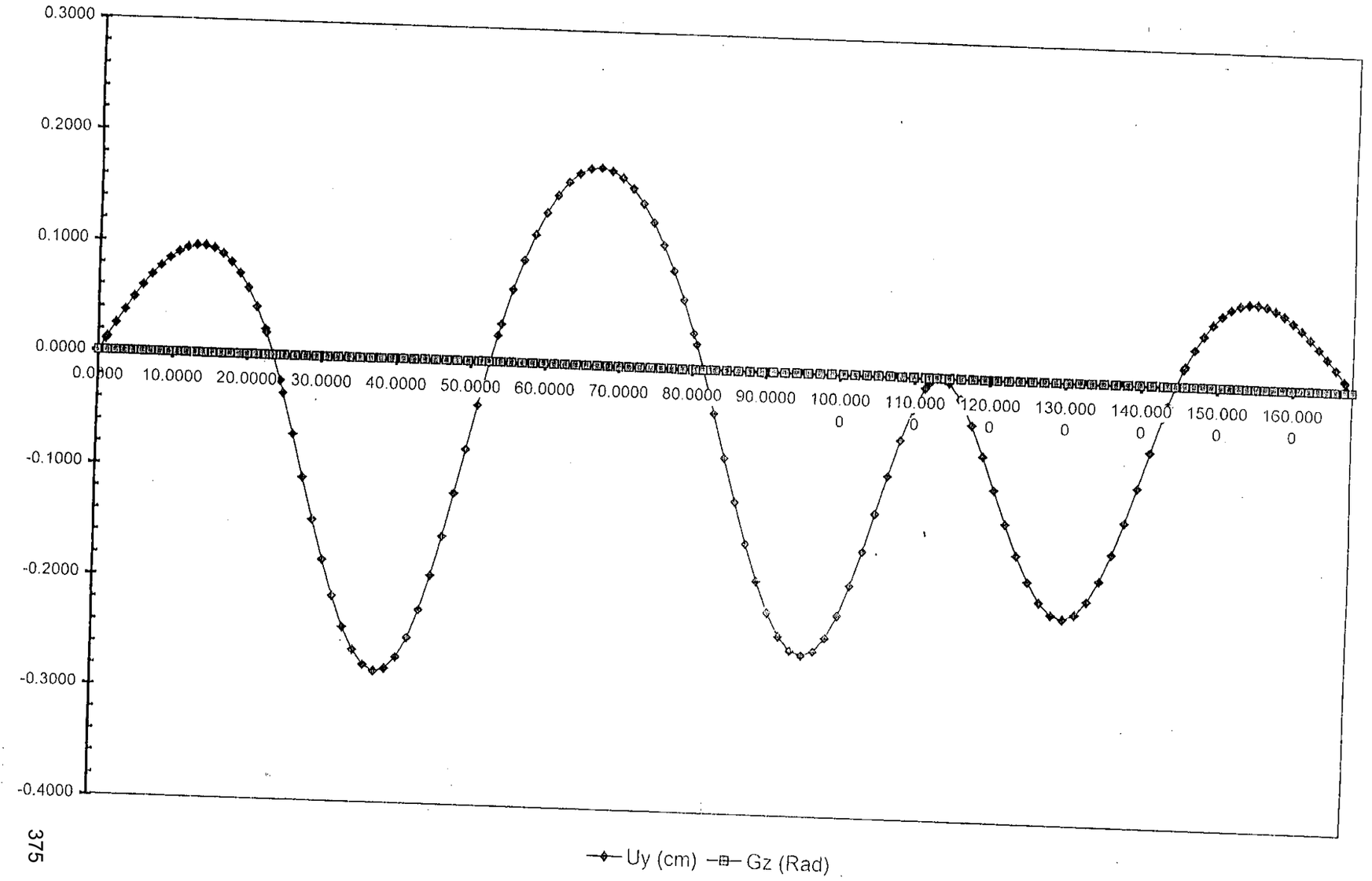
[1: 1]PC6

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)	
1	0.0000	0.0000	0.0001	
2	1.0000	0.0108	0.0001	
3	1.1750	0.0126	0.0001	
4	2.3500	0.0251	0.0001	
5	3.5250	0.0371	0.0001	
6	4.7000	0.0486	0.0001	
7	5.8750	0.0593	0.0001	
8	7.0500	0.0691	0.0001	
9	8.2250	0.0777	0.0001	
10	9.4000	0.0850	0.0001	
11	10.5750	0.0907	0.0000	
12	11.7500	0.0947	0.0000	← u_1
13	12.9250	0.0968	0.0000	
14	14.1000	0.0969	0.0000	
15	15.2750	0.0946	0.0000	
16	16.4500	0.0898	-0.0001	
17	17.6250	0.0824	-0.0001	
18	18.8000	0.0721	-0.0001	
19	19.9750	0.0590	-0.0001	
20	21.1500	0.0427	-0.0002	
21	22.3250	0.0231	-0.0002	
22	22.5000	0.0199	-0.0002	
23	23.5000	0.0000	-0.0002	
1023	23.5000	0.0000	-0.0002	
24	24.5000	-0.0224	-0.0002	
25	24.9500	-0.0332	-0.0002	
26	26.4000	-0.0699	-0.0003	
27	27.8500	-0.1082	-0.0003	
28	29.3000	-0.1462	-0.0003	
29	30.7500	-0.1821	-0.0002	
30	32.2000	-0.2144	-0.0002	
31	33.6500	-0.2415	-0.0002	
32	35.1000	-0.2623	-0.0001	
33	36.5500	-0.2758	-0.0001	
34	38.0000	-0.2813	0.0000	← u_2
35	39.4500	-0.2787	0.0001	
36	40.9000	-0.2680	0.0001	
37	42.3500	-0.2496	0.0002	
38	43.8000	-0.2243	0.0002	
39	45.2500	-0.1931	0.0002	
40	46.7000	-0.1574	0.0003	
41	48.1500	-0.1186	0.0003	
42	49.6000	-0.0783	0.0003	
43	51.0500	-0.0381	0.0003	
44	51.5000	-0.0260	0.0003	
45	52.5000	0.0000	0.0003	
1045	52.5000	0.0000	0.0003	
46	53.5000	0.0243	0.0002	
47	53.9500	0.0346	0.0002	
48	55.4000	0.0654	0.0002	
49	56.8500	0.0924	0.0002	
50	58.3000	0.1157	0.0002	
51	59.7500	0.1353	0.0001	
52	61.2000	0.1512	0.0001	
53	62.6500	0.1633	0.0001	
54	64.1000	0.1717	0.0001	
55	65.5500	0.1765	0.0000	
56	67.0000	0.1776	0.0000	← u_3
57	68.4500	0.1751	0.0000	
58	69.9000	0.1691	-0.0001	
59	71.3500	0.1596	-0.0001	
60	72.8000	0.1466	-0.0001	
61	74.2500	0.1302	-0.0001	
62	75.7000	0.1104	-0.0002	
63	77.1500	0.0875	-0.0002	
64	78.6000	0.0615	-0.0002	
65	80.0500	0.0323	-0.0002	
66	80.5000	0.0226	-0.0002	
67	81.5000	0.0000	-0.0002	
1067	81.5000	0.0000	-0.0002	
68	82.5000	-0.0239	-0.0002	
69	83.0750	-0.0382	-0.0003	
70	84.6500	-0.0780	-0.0003	
71	86.2250	-0.1175	-0.0003	
72	87.8000	-0.1547	-0.0002	
73	89.3750	-0.1880	-0.0002	
74	90.9500	-0.2158	-0.0002	
75	92.5250	-0.2366	-0.0001	
76	94.1000	-0.2496	-0.0001	
77	95.6750	-0.2540	0.0000	
78	97.2500	-0.2496	0.0001	← u_4
79	98.8250	-0.2369	0.0001	
80	100.4000	-0.2165	0.0002	
81	101.9750	-0.1895	0.0002	
82	103.5500	-0.1580	0.0002	
83	105.1250	-0.1237	0.0002	
84	106.7000	-0.0890	0.0002	
85	108.2750	-0.0565	0.0002	
86	109.8500	-0.0289	0.0002	
87	111.4250	-0.0091	0.0001	
88	112.0000	-0.0043	0.0001	
89	113.0000	0.0000	0.0000	
1089	113.0000	0.0000	0.0000	
90	114.0000	-0.0009	0.0000	
91	114.5750	-0.0037	-0.0001	
92	116.1500	-0.0182	-0.0001	
93	117.7250	-0.0407	-0.0002	
94	119.3000	-0.0683	-0.0002	
95	120.8750	-0.0984	-0.0002	
96	122.4500	-0.1285	-0.0002	
97	124.0250	-0.1564	-0.0002	
98	125.6000	-0.1802	-0.0001	
99	127.1750	-0.1982	-0.0001	
100	128.7500	-0.2092	-0.0001	← u_5
101	130.3250	-0.2127	0.0000	
102	131.9000	-0.2082	0.0001	
103	133.4750	-0.1962	0.0001	
104	135.0500	-0.1774	0.0001	
105	136.6250	-0.1528	0.0002	
106	138.2000	-0.1239	0.0002	
107	139.7750	-0.0923	0.0002	
108	141.3500	-0.0597	0.0002	
109	142.9250	-0.0283	0.0002	
110	143.5000	-0.0175	0.0002	

1111	144.5000	0.0000	0.0002
112	145.5000	0.0155	0.0002
113	145.6750	0.0180	0.0001
114	146.8500	0.0334	0.0001
115	148.0250	0.0461	0.0001
116	149.2000	0.0564	0.0001
117	150.3750	0.0644	0.0001
118	151.5500	0.0702	0.0000
119	152.7250	0.0740	0.0000
120	153.9000	0.0757	0.0000
121	155.0750	0.0757	0.0000
122	156.2500	0.0741	0.0000
123	157.4250	0.0709	0.0000
124	158.6000	0.0664	0.0000
125	159.7750	0.0607	-0.0001
126	160.9500	0.0540	-0.0001
127	162.1250	0.0464	-0.0001
128	163.3000	0.0380	-0.0001
129	164.4750	0.0290	-0.0001
130	165.6500	0.0196	-0.0001
131	166.8250	0.0099	-0.0001
132	167.0000	0.0084	-0.0001
133	168.0000	0.0000	-0.0001

GRÁFICO DE DESPLAZAMIENTOS (FASE VI)



Hipótesis de cálculos
FASE VII

PC PILA 5

[1: 1]PC7

Coef. exc:

Nudo	X	Uy (cm)	Gz (Rad)	
1	0.0000	0.0000	0.0000	
2	1.0000	-0.0030	0.0000	
3	1.1750	-0.0035	0.0000	
4	2.3500	-0.0069	0.0000	
5	3.5250	-0.0102	0.0000	
6	4.7000	-0.0134	0.0000	
7	5.8750	-0.0163	0.0000	
8	7.0500	-0.0190	0.0000	
9	8.2250	-0.0214	0.0000	
10	9.4000	-0.0234	0.0000	
11	10.5750	-0.0250	0.0000	
12	11.7500	-0.0261	0.0000	← u_1
13	12.9250	-0.0267	0.0000	
14	14.1000	-0.0267	0.0000	
15	15.2750	-0.0261	0.0000	
16	16.4500	-0.0247	0.0000	
17	17.6250	-0.0227	0.0000	
18	18.8000	-0.0199	0.0000	
19	19.9750	-0 0162	0.0000	
20	21.1500	-0.0118	0.0000	
21	22.3250	-0.0064	0.0001	
22	22.5000	-0.0055	0.0001	
23	23.5000	0.0000	0.0001	
1023	23.5000	0.0000	0.0001	
24	24.5000	0.0062	0.0001	
25	24.9500	0.0092	0.0001	
26	26.4000	0.0195	0.0001	
27	27.8500	0.0307	0.0001	
28	29.3000	0.0424	0.0001	
29	30.7500	0.0542	0.0001	
30	32.2000	0.0657	0.0001	
31	33.6500	0.0767	0.0001	
32	35.1000	0.0867	0.0001	
33	36.5500	0.0954	0.0001	
34	38.0000	0.1023	0.0000	← u_2
35	39.4500	0.1072	0.0000	
36	40.9000	0.1097	0.0000	
37	42.3500	0.1093	0.0000	
38	43.8000	0.1058	0.0000	
39	45.2500	0.0988	-0.0001	
40	46.7000	0.0879	-0.0001	
41	48.1500	0.0730	-0.0001	
42	49.6000	0.0536	-0.0002	
43	51.0500	0.0294	-0.0002	
44	51.5000	0.0208	-0.0002	
45	52.5000	0.0000	-0.0002	
1045	52.5000	0.0000	-0.0002	
46	53.5000	-0.0233	-0.0002	
47	53.9500	-0.0345	-0.0003	
48	55.4000	-0.0724	-0.0003	
49	56.8500	-0.1119	-0.0003	
50	58.3000	-0.1509	-0.0003	
51	59.7500	-0.1878	-0.0002	
52	61.2000	-0.2208	-0.0002	
53	62.6500	-0.2486	-0.0002	
54	64.1000	-0.2700	-0.0001	
55	65.5500	-0.2838	-0.0001	
56	67.0000	-0.2895	0.0000	← u_3
57	68.4500	-0.2870	0.0001	
58	69.9000	-0.2761	0.0001	
59	71.3500	-0.2574	0.0002	
60	72.8000	-0.2317	0.0002	
61	74.2500	-0.1998	0.0002	
62	75.7000	-0.1631	0.0003	
63	77.1500	-0.1232	0.0003	
64	78.6000	-0.0816	0.0003	
65	80.0500	-0.0399	0.0003	
66	80.5000	-0.0272	0.0003	
67	81.5000	0.0000	0.0003	
1067	81.5000	0.0000	0.0003	
68	82.5000	0.0256	0.0003	
69	83.0750	0.0396	0.0002	
70	84.6500	0.0750	0.0002	
71	86.2250	0.1061	0.0002	
72	87.8000	0.1331	0.0002	
73	89.3750	0.1559	0.0001	
74	90.9500	0.1746	0.0001	
75	92.5250	0.1889	0.0001	
76	94.1000	0 1990	0.0001	
77	95.6750	0 2049	0.0000	
78	97.2500	0.2065	0.0000	← u_4
79	98.8250	0 2040	0.0000	
80	100.4000	0 1973	-0.0001	
81	101.9750	0 1866	-0.0001	
82	103.5500	0.1717	-0.0001	
83	105.1250	0 1527	-0.0001	
84	106.7000	0.1298	-0.0002	
85	108.2750	0.1031	-0.0002	
86	109.8500	0.0725	-0.0002	
87	111.4250	0.0381	-0.0002	
88	112.0000	0.0247	-0.0002	
89	113.0000	0.0000	-0.0003	
1089	113.0000	0.0000	-0.0003	
90	114.0000	-0.0261	-0.0003	
91	114.5750	-0.0416	-0.0003	
92	116.1500	-0.0849	-0.0003	
93	117.7250	-0.1278	-0.0003	
94	119.3000	-0.1685	-0.0003	
95	120.8750	-0.2052	-0.0002	
96	122.4500	-0.2361	-0.0002	
97	124.0250	-0.2598	-0.0001	
98	125.6000	-0.2752	-0.0001	
99	127.1750	-0.2817	0.0000	
100	128.7500	-0.2789	0.0001	← u_5
101	130.3250	-0.2671	0.0001	
102	131.9000	-0.2469	0.0002	
103	133.4750	-0.2195	0.0002	
104	135.0500	-0.1866	0.0002	
105	136.6250	-0.1501	0.0002	
106	138.2000	-0.1123	0.0002	
107	139.7750	-0.0757	0.0002	
108	141.3500	-0.0429	0.0002	
109	142.9250	-0.0167	0.0001	
110	143.5000	-0.0093	0.0001	

111	144.5000	0.0000	0.0001
112	145.5000	0.0046	0.0000
113	145.6750	0.0049	0.0000
114	146.8500	0.0043	0.0000
115	148.0250	-0.0008	-0.0001
116	149.2000	-0.0090	-0.0001
117	150.3750	-0.0192	-0.0001
118	151.5500	-0.0305	-0.0001
119	152.7250	-0.0420	-0.0001
120	153.9000	-0.0527	-0.0001
121	155.0750	-0.0618	-0.0001
122	156.2500	-0.0689	-0.0001
123	157.4250	-0.0736	0.0000
124	158.6000	-0.0755	0.0000
125	159.7750	-0.0743	0.0000
126	160.9500	-0.0703	0.0001
127	162.1250	-0.0636	0.0001
128	163.3000	-0.0543	0.0001
129	164.4750	-0.0428	0.0001
130	165.6500	-0.0296	0.0001
131	166.8250	-0.0151	0.0001
132	167.0000	-0.0129	0.0001
133	168.0000	0.0000	0.0001

GRÁFICO DE DESPLAZAMIENTOS (FASE VII)

