ANEJO Nº 6. ESTRUCTURAS

4. Cálculos

4.3. CÁLCULOS

4.3.1. VIADUCTOS

• Viaducto sobre riera de rubí (vía doble B-M)

ANEJO DE CÁLCULO DEL VIADUCTO SOBRE LA RIERA DE RUBÍ
LÍNEA DE MERCANCIAS

Envolvente de Esfuerzos - Trenes sobre Ambas Vías

Barra/Nudo/Caso			FZ (T)	MX (Tm)	MY (Tm)
501/	1/	321 (C)	240.840>>	148.618	-3.014
501/	1/	323 (C)	-33.219<<	46.741	1.136
501/	1/	361 (C)	187.799	179.976>>	-1.731
501/	1/	313 (C)	3.486	-5.480<<	-0.149
501/	343/	321 (C)	240.840	148.618	237.826>>
501/	343/	323 (C)	-33.219	46.741	-32.083<<
502/	343/	321 (C)	191.632>>	60.833	234.790
502/	343/	323 (C)	-26.674<<	63.143	-30.980
502/	343/	361 (C)	148.337	111.114>>	184.262
502/	343/	313 (C)	2.738	-7.290<<	3.192
502/	341/	321 (C)	191.632	60.833	426.421>>
502/	341/	323 (C)	-26.674	63.143	-57.654<<
503/	341/	321 (C)	152.105>>	-2.144	423.489
503/	341/	323 (C)	-22.308<<	74.179	-56.600
503/	341/	365 (C)	-22.195	75.205>>	-56.400
503/	341/	304 (C)	114.790	-24.725<<	312.051
503/	339/	321 (C)	152.105	-2.144	575.594>>
503/	339/	323 (C)	-22.308	74.179	-78.908<<
504/	339/	321 (C)	119.978>>	-46.041	572.820
504/	339/	323 (C)	-19.566<<	81.229	-77.909
504/	339/	365 (C)	-19.439	82.281>>	-77.587
504/	339/	304 (C)	93.419	-57.789<<	424.481
504/	337/	321 (C)	119.978	-46.041	692.798>>
504/	337/	323 (C)	-19.566	81.229	-97.476<<
505/	337/	321 (C)	93.435>>	-75.437	690.211
505/	337/	323 (C)	-18.017<<	85.373	-96.534
505/	337/	365 (C)	-17.876	86.447>>	-96.073
505/	337/	304 (C)	76.592	-79.113<<	515.698
505/	335/	321 (C)	93.435	-75.437	783.646>>
505/	335/	323 (C)	-18.017	85.373	-114.551<<
506/	335/	321 (C)	71.053>>	-93.933	781.257
506/	335/	323 (C)	-17.327<<	87.444	-113.664
506/	335/	365 (C)	-17.173	88.538>>	-113.052
506/	335/	321 (C)	71.053	-93.933<<	781.257
506/	333/	321 (C)	71.053	-93.933	852.311>>
506/	333/	323 (C)	-17.327	87.444	-130.992<<
507/	333/	304 (C)	52.151>>	-97.675	651.525
507/	333/	323 (C)	-17.240<<	88.085	-130.158
507/	333/	365 (C)	-17.075	89.194>>	-129.381
507/	333/	321 (C)	51.734	-104.319<<	850.120
507/	331/	321 (C)	51.734	-104.319	901.854>>
507/	331/	323 (C)	-17.240	88.085	-147.398<<
508/	331/	304 (C)	42.932>>	-98.971	701.971
508/	331/	323 (C)	-17.561<<	87.788	-146.616
508/	331/	365 (C)	-17.387	88.906>>	-145.661
508/	331/	321 (C)	34.645	-108.724<<	899.855
508/	329/	321 (C)	34.645	-108.724	934.500>>
508/	329/	323 (C)	-17.561	87.788	-164.176<<
509/	329/	351 (C)	35.065>>	-31.892	321.919
509/	329/	323 (C)	-18.136<<	86.940	-163.442
509/	329/	365 (C)	-17.958	88.055>>	-162.301
509/	329/	321 (C)	19.167	-108.741<<	932.686
509/	327/	321 (C)	19.167	-108.741	951.853>>
509/	327/	323 (C)	-18.136	86.940	-181.578<<
510/	327/	351 (C)	35.959>>	-28.427	356.417
510/	327/	323 (C)	-18.842<<	85.858	-180.890
510/	327/	365 (C)	-18.668	86.949>>	-179.557
510/	327/	321 (C)	4.846	-105.549<<	950.214
510/	325/	321 (C)	4.846	-105.549	955.060>>
510/	325/	323 (C)	-18.842	85.858	-199.732<<
511/	325/	351 (C)	36.917>>	-24.612	391.874
511/	325/	362 (C)	-24.743<<	2.232	508.014
511/	325/	365 (C)	-19.410	85.858>>	-197.567
511/	325/	321 (C)	-8.648	-100.015<<	953.589
511/	325/	321 (C)	-8.648	-100.015	953.589>>
511/	323/	323 (C)	-19.569	84.821	-218.659<<
512/	323/	351 (C)	37.783>>	-20.834	428.354
512/	323/	362 (C)	-34.439<<	6.706	482.827
512/	323/	365 (C)	-20.084	85.043>>	-216.365
512/	323/	321 (C)	-21.557	-92.781<<	943.635
512/	323/	321 (C)	-21.557	-92.781	943.635>>
512/	321/	323 (C)	-20.208	84.110	-238.271<<
513/	321/	322 (C)	21.821>>	48.659	202.576
513/	321/	361 (C)	-45.295<<	-14.007	618.985
513/	321/	365 (C)	-20.577	84.792>>	-235.882
513/	321/	321 (C)	-34.066	-84.344<<	920.936
513/	321/	321 (C)	-34.066	-84.344	920.936>>
513/	319/	323 (C)	-20.639	84.031	-258.361<<
514/	319/	322 (C)	7.983>>	53.479	224.284
514/	319/	361 (C)	-55.674<<	-5.316	573.170
514/	319/	365 (C)	-20.755	85.449>>	-255.941
514/	319/	321 (C)	-46.334	-75.144<<	885.897
514/	319/	321 (C)	-46.334	-75.144	885.897>>
514/	317/	323 (C)	-20.716	84.960	-278.579<<
515/	317/	313 (C)	2.744>>	-5.856	28.362
515/	317/	361 (C)	-65.570<<	4.804	517.091
515/	317/	365 (C)	-20.447	87.454>>	-276.228
515/	317/	321 (C)	-58.528	-65.630<<	838.769
515/	317/	321 (C)	-58.528	-65.630	838.769>>
515/	315/	323 (C)	-20.253	87.374	-298.386<<
516/	315/	313 (C)	2.939>>	-5.184	31.036
516/	315/	361 (C)	-74.984<<	16.330	451.243
516/	315/	323 (C)	-19.007	91.892>>	-297.993
516/	315/	304 (C)	-58.775	-59.163<<	721.561
516/	315/	321 (C)	-70.853	-56.349	779.638>>
516/	313/	323 (C)	-19.007	91.892	-317.000<<
517/	313/	313 (C)	3.128>>	-4.515	33.913
517/	313/	301 (C)	-84.796<<	12.853	455.614
517/	313/	323 (C)	-16.657	99.328>>	-316.662
517/	313/	304 (C)	-74.016	-55.459<<	662.512
517/	313/	321 (C)	-83.587	-48.034	708.394>>
517/	311/	323 (C)	-16.657	99.328	-333.319<<
518/	311/	313 (C)	3.366>>	-3.704	36.948
518/	311/	301 (C)	-98.051<<	22.878	370.661
518/	311/	323 (C)	-13.596	108.702>>	-332.596
518/	311/	304 (C)	-89.090	-51.386<<	587.831
518/	311/	321 (C)	-95.973	-38.806	624.069>>
518/	309/	365 (C)	-14.795	106.186	-346.782<<
519/	309/	313 (C)	3.784>>	-2.420	40.192
519/	309/	301 (C)	-110.253<<	35.584	272.578
519/	309/	323 (C)	-11.068	116.897>>	-345.042
519/	309/	304 (C)	-102.578	-43.420<<	497.903
519/	309/	321 (C)	-106.736	-25.494	527.284>>
519/	307/	365 (C)	-12.876	112.825	-358.490<<
520/	307/	313 (C)	4.526>>	-0.306	43.828
520/	307/	321 (C)	-115.543<<	-7.293	419.973
520/	307/	323 (C)	-10.548	120.215>>	-354.481
520/	307/	304 (C)	-105.693	-28.321<<	394.570
520/	307/	321 (C)	-115.543	-7.293	419.973>>
520/	305/	365 (C)	-13.150	114.121	-370.005<<
521/	305/	313 (C)	5.734>>	2.992	48.219
521/	305/	321 (C)	-122.881<<	14.547	304.234
521/	305/	322 (C)	-78.881	120.821>>	16.497
521/	305/	351 (C)	-53.241	-10.199<<	83.576
521/	305/	321 (C)	-122.881	14.547	304.234>>
521/	628/	365 (C)	-17.031	106.627	-382.207<<
522/	628/	313 (C)	7.357>>	7.343	52.761
522/	628/	321 (C)	-129.612<<	37.875	204.339
522/	628/	322 (C)	-93.667	125.449>>	-46.245
522/	628/	351 (C)	-50.049	-1.087<<	40.181
522/	628/	321 (C)	-129.612	37.875	204.339>>
522/	303/	365 (C)	-24.191	91.124	-395.406<<
523/	303/	313 (C)	9.270>>	12.433	57.217
523/	303/	321 (C)	-136.462<<	60.879	124.958
523/	303/	322 (C)	-110.273	125.660>>	-102.360
523/	303/	353 (C)	4.110	5.619<<	22.103
523/	303/	304 (C)	-105.813	39.464	135.583>>
523/	301/	365 (C)	-33.755	69.746	-427.730<<
524/	301/	313 (C)	11.402>>	18.104	66.532
524/	301/	361 (C)	-150.028<<	114.712	-304.502
524/	301/	322 (C)	-129.801	118.799>>	-211.048
524/	301/	324 (C)	-9.758	4.062<<	-68.564
524/	299/	313 (C)	11.402	18.104	77.934>>
524/	299/	362 (C)	-137.070	110.852	-510.425<<
525/	299/	313 (C)	13.537>>	23.805	78.083
525/	299/	361 (C)	-165.795<<	111.594	-453.138
525/	299/	361 (C)	-165.795	111.594>>	-453.138
525/	299/	352 (C)	-20.556	-4.282<<	-166.326
525/	297/	313 (C)	13.537	23.805	91.619>>
525/	297/	362 (C)	-153.600	100.705	-662.827<<
526/	297/	313 (C)	15.502>>	29.076	91.766
526/	297/	361 (C)	-184.355<<	101.381	-617.267
526/	297/	364 (C)	-129.559	119.443>>	-207.135
526/	297/	305 (C)	-66.849	-24.921<<	-458.745
526/	3/	313 (C)	15.502	29.076	107.268>>
526/	3/	362 (C)	-172.592	84.394	-834.038<<
527/	3/	362 (C)	249.525>>	65.798	-832.458
527/	3/	313 (C)	-24.385<<	33.545	107.636
527/	3/	364 (C)	38.797	124.487>>	-333.900
527/	3/	305 (C)	192.972	-49.774<<	-526.375
527/	3/	313 (C)	-24.385	33.545	107.636>>
527/	3/	362 (C)	249.525	65.798	-832.458<<
528/	295/	362 (C)	223.941>>	38.051	-582.483
528/	295/	313 (C)	-22.550<<	38.460	83.512
528/	295/	364 (C)	35.841	123.082>>	-293.215
528/	295/	305 (C)	173.594	-75.129<<	-334.470
528/	295/	313 (C)	-22.550	38.460	83.512>>
528/	295/	362 (C)	223.941	38.051	-582.483<<
529/	293/	362 (C)	197.942>>	9.192	-358.535

529/	293/	313 (C)	-20.891<<	42.937	61.263
529/	293/	366 (C)	18.128	115.456>>	-195.231
529/	293/	365 (C)	187.360	-97.278<<	-158.074
529/	291/	323 (C)	192.720	-48.770	77.952>>
529/	293/	361 (C)	173.028	37.757	-384.131<<
530/	291/	362 (C)	173.069>>	-16.740	-161.287
530/	291/	313 (C)	-19.298<<	47.288	40.792
530/	291/	366 (C)	13.840	109.105>>	-175.845
530/	291/	365 (C)	166.054	-116.153<<	27.334
530/	289/	323 (C)	170.602	-64.042	246.942>>
530/	291/	321 (C)	35.994	72.900	-316.601<<
531/	289/	323 (C)	150.564>>	-73.811	245.464
531/	289/	313 (C)	-17.971<<	51.015	21.984
531/	289/	366 (C)	9.408	102.342>>	-161.046
531/	289/	365 (C)	146.987	-129.222<<	191.445
531/	287/	323 (C)	150.564	-73.811	396.031>>
531/	289/	321 (C)	28.642	56.957	-280.007<<
532/	287/	323 (C)	131.366>>	-81.251	394.992
532/	287/	313 (C)	-16.981<<	53.942	4.537
532/	287/	366 (C)	5.602	97.123>>	-150.932
532/	287/	365 (C)	129.128	-139.119<<	336.840
532/	285/	323 (C)	131.366	-81.251	526.360>>
532/	287/	321 (C)	22.858	44.765	-251.217<<
533/	285/	323 (C)	112.167>>	-88.366	525.230
533/	285/	313 (C)	-16.293<<	56.159	-11.931
533/	285/	366 (C)	2.647	93.978>>	-144.617
533/	285/	365 (C)	111.692	-147.720<<	464.302
533/	283/	323 (C)	112.167	-88.366	637.399>>
533/	285/	321 (C)	18.924	36.982	-228.181<<
534/	283/	365 (C)	94.791>>	-154.882	574.245
534/	283/	313 (C)	-15.848<<	57.817	-27.706
534/	283/	366 (C)	0.301	92.361>>	-141.222
534/	283/	365 (C)	94.791	-154.882<<	574.245
534/	281/	323 (C)	93.186	-94.777	729.373>>
534/	283/	321 (C)	16.358	32.486	-209.030<<
535/	281/	305 (C)	79.388>>	-145.357	556.163
535/	281/	313 (C)	-15.599<<	59.038	-43.041
535/	281/	366 (C)	-1.618	91.799>>	-140.147
535/	281/	365 (C)	78.476	-160.444<<	667.243
535/	279/	323 (C)	74.553	-100.123	802.656>>
535/	279/	304 (C)	-0.313	85.525	-199.795<<
536/	279/	305 (C)	69.071>>	-147.180	633.910
536/	279/	313 (C)	-15.506<<	59.930	-58.125
536/	279/	366 (C)	-3.255	91.959>>	-140.960
536/	279/	365 (C)	62.761	-164.459<<	743.880
536/	277/	323 (C)	56.340	-104.319	857.695>>
536/	277/	304 (C)	-0.689	85.918	-199.730<<
537/	277/	305 (C)	59.235>>	-147.569	701.388
537/	277/	313 (C)	-15.536<<	60.561	-73.138
537/	277/	366 (C)	-4.713	92.539>>	-143.411
537/	277/	365 (C)	47.638	-166.735<<	804.839
537/	275/	323 (C)	38.585	-107.051	894.989>>
537/	275/	304 (C)	-0.838	86.826	-199.805<<
538/	275/	305 (C)	49.814>>	-146.897	759.040
538/	275/	322 (C)	-20.667<<	-79.211	437.427
538/	275/	366 (C)	-6.071	93.395>>	-147.296
538/	275/	365 (C)	33.089	-167.559<<	850.668
538/	273/	323 (C)	21.300	-108.550	914.991>>
538/	273/	304 (C)	-0.862	88.062	-199.874<<
539/	273/	352 (C)	46.914>>	-44.559	403.143
539/	273/	322 (C)	-21.287<<	-74.658	416.023
539/	273/	366 (C)	-7.380	94.390>>	-152.530
539/	273/	365 (C)	19.097	-166.909<<	881.971

539/	271/	323 (C)	4.493	-108.733	918.203>>
539/	271/	304 (C)	-0.832	89.436	-199.897<<
540/	271/	352 (C)	46.717>>	-43.058	449.452
540/	271/	322 (C)	-21.290<<	-68.677	394.011
540/	271/	366 (C)	-8.672	95.468>>	-159.058
540/	271/	365 (C)	5.647	-164.925<<	899.300
540/	271/	323 (C)	-11.833	-107.696	916.937>>
540/	269/	304 (C)	-0.795	90.857	-199.863<<
541/	269/	324 (C)	23.924>>	11.667	212.632
541/	269/	323 (C)	-27.669<<	-105.161	903.898
541/	269/	366 (C)	-9.958	96.556>>	-166.898
541/	269/	365 (C)	-7.270	-161.373<<	903.258
541/	269/	323 (C)	-27.669	-105.161	903.898>>
541/	267/	306 (C)	-8.342	91.367	-205.148<<
542/	267/	324 (C)	25.129>>	18.536	236.211
542/	267/	323 (C)	-42.998<<	-101.371	875.055
542/	267/	366 (C)	-11.232	97.734>>	-176.020
542/	267/	365 (C)	-19.660	-156.547<<	894.339
542/	267/	365 (C)	-19.660	-156.547	894.339>>
542/	265/	306 (C)	-8.510	92.234	-212.879<<
543/	265/	324 (C)	26.542>>	26.257	261.030
543/	265/	323 (C)	-57.791<<	-96.185	830.938
543/	265/	366 (C)	-12.464	99.065>>	-186.427
543/	265/	365 (C)	-31.524	-150.376<<	873.098
543/	265/	365 (C)	-31.524	-150.376	873.098>>
543/	263/	306 (C)	-8.674	93.173	-220.787<<
544/	263/	321 (C)	14.201>>	39.735	-63.364
544/	263/	323 (C)	-72.011<<	-89.596	772.084
544/	263/	366 (C)	-13.602	100.709>>	-198.073
544/	263/	365 (C)	-42.865	-142.963<<	840.061
544/	263/	365 (C)	-42.865	-142.963	840.061>>
544/	261/	306 (C)	-8.789	94.324	-228.818<<
545/	261/	321 (C)	14.017>>	40.020	-48.650
545/	261/	323 (C)	-85.611<<	-81.280	699.105
545/	261/	366 (C)	-14.564	102.820>>	-210.898
545/	261/	365 (C)	-53.698	-134.111<<	795.811
545/	261/	365 (C)	-53.698	-134.111	795.811>>
545/	259/	306 (C)	-8.788	95.800	-236.891<<
546/	259/	321 (C)	13.627>>	39.720	-34.111
546/	259/	323 (C)	-98.539<<	-71.340	612.608
546/	259/	366 (C)	-15.233	105.769>>	-224.703
546/	259/	365 (C)	-64.059	-124.167<<	740.830
546/	259/	365 (C)	-64.059	-124.167	740.830>>
546/	257/	306 (C)	-8.575	97.924	-244.768<<
547/	257/	321 (C)	12.980>>	38.712	-19.962
547/	257/	323 (C)	-110.744<<	-59.595	513.304
547/	257/	366 (C)	-15.442	109.958>>	-239.207
547/	257/	365 (C)	-74.022	-113.249<<	675.636
547/	257/	365 (C)	-74.022	-113.249	675.636>>
547/	255/	366 (C)	-15.442	109.958	-254.649<<
548/	255/	321 (C)	12.019>>	36.852	-6.456
548/	255/	323 (C)	-122.191<<	-46.012	401.912
548/	255/	366 (C)	-14.971	115.984>>	-253.947
548/	255/	305 (C)	-81.550	-102.393<<	540.460
548/	255/	365 (C)	-83.720	-101.771	600.631>>
548/	253/	366 (C)	-14.971	115.984	-268.918<<
549/	253/	321 (C)	10.694>>	34.024	6.056
549/	253/	323 (C)	-132.408<<	-29.312	279.048
549/	253/	366 (C)	-14.203	122.808>>	-267.910
549/	253/	305 (C)	-87.025	-92.401<<	457.860
549/	253/	365 (C)	-92.401	-87.675	515.668>>
549/	251/	366 (C)	-14.203	122.808	-282.114<<
550/	251/	321 (C)	9.066>>	30.379	17.176

550/	251/	323 (C)	-141.260<<	-9.275	146.289
550/	251/	366 (C)	-14.230	127.774>>	-280.743
550/	251/	305 (C)	-90.717	-78.130<<	369.720
550/	251/	365 (C)	-99.014	-68.501	422.039>>
550/	249/	366 (C)	-14.230	127.774	-294.973<<
551/	249/	321 (C)	7.349>>	26.461	26.549
551/	249/	323 (C)	-149.925<<	11.141	5.415
551/	249/	366 (C)	-16.314	127.718>>	-293.211
551/	249/	305 (C)	-92.382	-58.960<<	278.105
551/	249/	365 (C)	-103.533	-44.181	322.164>>
551/	247/	366 (C)	-16.314	127.718	-309.523<<
552/	247/	321 (C)	5.439>>	22.078	34.145
552/	247/	323 (C)	-160.140<<	27.593	-143.702
552/	247/	366 (C)	-21.917	119.020>>	-307.767
552/	247/	305 (C)	-92.287	-35.519<<	185.144
552/	247/	365 (C)	-106.436	-15.883	218.191>>
552/	358/	366 (C)	-21.917	119.020	-326.811<<
553/	358/	321 (C)	3.439>>	17.473	39.062
553/	358/	323 (C)	-172.694<<	38.135	-281.603
553/	358/	324 (C)	-100.672	118.810>>	-49.031
553/	358/	305 (C)	-91.087	-9.468<<	104.670
553/	358/	365 (C)	-108.589	14.189	125.674>>
553/	245/	323 (C)	-172.694	38.135	-387.605<<
554/	245/	321 (C)	1.369>>	12.695	41.389
554/	245/	323 (C)	-187.246<<	43.636	-386.397
554/	245/	324 (C)	-116.478	121.422>>	-109.223
554/	245/	352 (C)	-34.504	0.478<<	-36.214
554/	245/	365 (C)	-110.714	44.268	59.265>>
554/	243/	323 (C)	-187.246	43.636	-573.647<<
555/	243/	311 (C)	-0.245>>	3.312	30.411
555/	243/	323 (C)	-187.920<<	48.465	-572.951
555/	243/	324 (C)	-135.150	117.070>>	-224.145
555/	243/	353 (C)	-16.585	2.706<<	-143.427
555/	243/	321 (C)	-0.969	7.244	42.991>>
555/	241/	323 (C)	-187.920	48.465	-760.875<<
556/	241/	311 (C)	-1.918>>	-0.580	30.245
556/	241/	323 (C)	-189.010<<	52.221	-760.184
556/	241/	324 (C)	-155.812	107.858>>	-357.786
556/	241/	353 (C)	-20.238	-5.878<<	-160.092
556/	241/	321 (C)	-3.430	1.454	42.148>>
556/	239/	323 (C)	-189.010	52.221	-949.198<<
557/	239/	351 (C)	-3.139>>	0.690	13.619
557/	239/	323 (C)	-192.142<<	50.551	-947.827
557/	239/	365 (C)	-123.485	117.559>>	-278.364
557/	239/	306 (C)	-69.991	-29.148<<	-420.648
557/	239/	321 (C)	-5.755	-4.014	38.693>>
557/	5/	323 (C)	-192.142	50.551	-1139.972<<
558/	5/	323 (C)	263.829>>	46.534	-1137.971
558/	5/	311 (C)	0.254<<	-7.203	24.637
558/	5/	365 (C)	40.191	129.334>>	-398.654
558/	5/	306 (C)	191.060	-56.420<<	-491.618
558/	237/	321 (C)	0.822	-8.480	33.537>>
558/	5/	323 (C)	263.829	46.534	-1137.971<<
559/	237/	323 (C)	252.993>>	25.434	-873.184
559/	237/	311 (C)	-0.523<<	-8.893	24.745
559/	237/	365 (C)	38.541	131.746>>	-356.256
559/	237/	306 (C)	171.065	-83.225<<	-301.769
559/	237/	321 (C)	-0.368	-11.147	33.335>>
559/	237/	323 (C)	252.993	25.434	-873.184<<
560/	235/	323 (C)	239.823>>	-1.368	-619.718
560/	235/	321 (C)	-0.974<<	-12.369	32.758
560/	235/	365 (C)	33.510	125.366>>	-315.610
560/	235/	306 (C)	153.228	-104.376<<	-132.237

571/	213/	353 (C)	**46.015>>**	-43.254	445.965
570/	215/	305 (C)	0.926	98.778	**-209.261<<**
570/	213/	366 (C)	16.952	-172.869	**891.921>>**
570/	215/	366 (C)	16.952	**-172.869<<**	874.969
570/	215/	305 (C)	0.926	**98.778>>**	-209.261
570/	215/	322 (C)	**-26.031<<**	-99.905	486.660
570/	215/	353 (C)	**46.222>>**	-44.821	400.341
569/	217/	305 (C)	0.786	97.039	**-210.958<<**
569/	215/	366 (C)	31.006	-173.547	**876.794>>**
569/	217/	366 (C)	31.006	**-173.547<<**	845.785
569/	217/	305 (C)	0.786	**97.039>>**	-210.958
569/	217/	324 (C)	**-20.457<<**	-73.187	417.078
569/	217/	323 (C)	**58.533>>**	-113.007	768.297
568/	219/	305 (C)	0.675	95.367	**-212.525<<**
568/	217/	366 (C)	45.637	-172.719	**847.631>>**
568/	219/	366 (C)	45.637	**-172.719<<**	801.995
568/	219/	305 (C)	0.675	**95.367>>**	-212.525
568/	219/	324 (C)	**-3.269<<**	-71.861	421.036
568/	219/	323 (C)	**75.114>>**	-113.749	694.455
567/	221/	305 (C)	0.661	93.905	**-214.063<<**
567/	219/	366 (C)	60.864	-170.243	**803.867>>**
567/	221/	366 (C)	60.864	**-170.243<<**	743.004
567/	221/	305 (C)	0.661	**93.905>>**	-214.063
567/	221/	321 (C)	**-1.665<<**	-12.563	23.032
567/	221/	323 (C)	**92.494>>**	-112.382	603.306
566/	223/	305 (C)	0.842	92.951	**-215.733<<**
566/	221/	366 (C)	76.711	-166.284	**744.838>>**
566/	223/	366 (C)	76.711	**-166.284<<**	668.128
566/	223/	305 (C)	0.842	**92.951>>**	-215.733
566/	223/	321 (C)	**-1.552<<**	-12.452	24.682
566/	223/	323 (C)	**110.847>>**	-108.655	493.834
565/	225/	305 (C)	1.355	92.779	**-217.890<<**
565/	223/	366 (C)	93.187	-160.578	**669.955>>**
565/	225/	366 (C)	93.187	**-160.578<<**	576.769
565/	225/	305 (C)	1.355	**92.779>>**	-217.890
565/	225/	321 (C)	**-1.440<<**	-12.355	26.215
565/	225/	323 (C)	**130.386>>**	-101.829	364.875
564/	227/	305 (C)	2.385	93.865	**-221.034<<**
564/	225/	366 (C)	110.285	-153.205	**578.550>>**
564/	227/	366 (C)	110.285	**-153.205<<**	468.267
564/	227/	305 (C)	2.385	**93.865>>**	-221.034
564/	227/	321 (C)	**-1.340<<**	-12.303	27.643
564/	227/	323 (C)	**151.377>>**	-91.283	214.952
563/	229/	365 (C)	14.914	96.239	**-231.476<<**
563/	227/	366 (C)	127.961	-144.218	**469.991>>**
563/	229/	366 (C)	127.961	**-144.218<<**	342.019
563/	229/	305 (C)	4.179	**96.796>>**	-225.937
563/	229/	321 (C)	**-1.266<<**	-12.333	28.990
563/	229/	323 (C)	**174.139>>**	-76.179	42.263
562/	231/	365 (C)	20.392	104.315	**-252.516<<**
562/	229/	366 (C)	146.111	-133.996	**343.608>>**
562/	231/	366 (C)	146.111	**-133.996<<**	197.499
562/	231/	365 (C)	20.392	**104.315>>**	-252.516
562/	231/	321 (C)	**-1.244<<**	-12.513	30.304
562/	231/	323 (C)	**199.047>>**	-55.615	-155.360
561/	233/	323 (C)	226.447	-28.685	**-380.541<<**
561/	231/	366 (C)	165.543	-120.375	**199.457>>**
561/	233/	366 (C)	165.543	**-120.375<<**	33.917
561/	233/	365 (C)	26.981	**115.004>>**	-280.562
561/	233/	321 (C)	**-1.203<<**	-12.666	31.622
561/	233/	323 (C)	**226.447>>**	-28.685	-380.541
560/	235/	323 (C)	239.823	-1.368	**-619.718<<**
560/	233/	313 (C)	157.710	-82.058	**58.094>>**

581/	213/	322 (C)	**-42.735<<**	-101.862	460.032
581/	213/	305 (C)	1.048	**100.456>>**	-207.422
581/	213/	366 (C)	3.460	**-170.644<<**	890.147
581/	211/	323 (C)	27.277	-106.618	**894.410>>**
581/	213/	305 (C)	1.048	100.456	**-207.422<<**
581/	211/	323 (C)	**12.429>>**	-101.613	893.352
581/	211/	322 (C)	**-43.061<<**	-98.619	416.708
581/	211/	305 (C)	1.125	**102.074>>**	-205.434
581/	211/	366 (C)	-9.475	**-167.162<<**	891.842
581/	209/	323 (C)	12.429	-101.613	**905.780>>**
581/	211/	305 (C)	1.125	102.074	**-205.434<<**
581/	209/	312 (C)	**10.415>>**	24.343	-64.214
581/	209/	322 (C)	**-43.007<<**	-94.698	373.092
581/	209/	305 (C)	1.144	**103.549>>**	-203.376
581/	209/	366 (C)	-21.855	**-162.171<<**	880.675
581/	209/	323 (C)	-1.989	-95.466	**904.821>>**
581/	207/	312 (C)	**10.467>>**	25.559	-53.417
581/	207/	305 (C)	1.144	103.549	**-203.376<<**
581/	207/	353 (C)	**-55.522<<**	-66.484	480.524
581/	207/	365 (C)	-4.273	**105.764>>**	-182.148
581/	207/	366 (C)	-33.673	**-155.757<<**	857.195
581/	205/	323 (C)	-16.032	-88.426	**901.972>>**
581/	207/	305 (C)	1.107	104.915	**-201.302<<**
581/	205/	312 (C)	**10.429>>**	26.451	-42.560
581/	205/	353 (C)	**-55.166<<**	-63.504	424.532
581/	205/	365 (C)	-5.273	**108.378>>**	-185.502
581/	205/	366 (C)	-44.921	**-147.827<<**	821.993
581/	205/	323 (C)	-29.764	-80.578	**885.198>>**
581/	203/	305 (C)	1.028	106.199	**-199.284<<**
581/	203/	312 (C)	**10.266>>**	26.949	-31.728
581/	203/	303 (C)	**-67.940<<**	-41.241	547.098
581/	203/	365 (C)	-6.180	**111.307>>**	-189.844
581/	203/	366 (C)	-55.597	**-138.632<<**	775.606
581/	203/	323 (C)	-43.269	-72.419	**854.798>>**
581/	203/	305 (C)	0.939	107.546	**-197.334<<**
581/	201/	312 (C)	**9.940>>**	26.955	-21.059
581/	201/	303 (C)	**-74.104<<**	-31.145	478.790
581/	201/	365 (C)	-6.915	**114.703>>**	-193.118
581/	201/	366 (C)	-65.715	**-127.980<<**	718.678
581/	201/	323 (C)	-56.673	-64.020	**811.046>>**
581/	199/	365 (C)	-6.915	114.703	**-202.034<<**
581/	199/	312 (C)	**9.409>>**	26.373	-10.714
581/	199/	303 (C)	**-79.733<<**	-19.775	404.416
581/	199/	365 (C)	-7.368	**118.879>>**	-201.147
581/	199/	306 (C)	-77.522	**-116.358<<**	597.039
581/	199/	323 (C)	-70.162	-55.958	**754.052>>**
581/	197/	365 (C)	-7.368	118.879	**-208.516<<**
581/	197/	312 (C)	**8.626>>**	25.085	-0.903
581/	197/	363 (C)	**-87.716<<**	0.136	352.005
581/	197/	365 (C)	-7.389	**124.205>>**	-207.665
581/	197/	306 (C)	-83.235	**-106.785<<**	518.687
579/	197/	323 (C)	-84.016	-48.884	**683.760>>**
579/	195/	365 (C)	-7.389	124.205	**-215.054<<**
579/	195/	312 (C)	**7.561>>**	23.022	8.104
579/	195/	323 (C)	**-97.454<<**	-41.050	599.222
579/	195/	365 (C)	-7.363	**129.788>>**	-213.889
579/	195/	306 (C)	-88.100	**-95.333<<**	434.337
579/	193/	323 (C)	-97.454	-41.050	**599.222>>**
579/	193/	365 (C)	-7.363	129.788	**-221.252<<**
579/	193/	312 (C)	**6.277>>**	20.352	15.983
581/	193/	323 (C)	**-109.174<<**	-29.011	501.148
581/	193/	365 (C)	-8.267	**133.119>>**	-219.806
581/	193/	306 (C)	-91.171	**-79.490<<**	345.130

592/	175/	324 (C)	**155.079>>**	-16.109	-122.054
591/	177/	363 (C)	172.688	36.589	**-403.087<<**
591/	175/	305 (C)	120.594	-84.263	**48.852>>**
591/	177/	365 (C)	157.793	**-91.734<<**	-116.926
591/	177/	366 (C)	33.959	**123.143>>**	-313.441
591/	177/	312 (C)	**-0.596<<**	-10.190	23.171
591/	177/	324 (C)	**181.582>>**	8.380	-303.250
590/	179/	363 (C)	195.638	62.233	**-599.389<<**
590/	179/	312 (C)	-0.128	-9.351	**23.448>>**
590/	179/	365 (C)	179.089	**-68.039<<**	-294.580
590/	179/	366 (C)	39.078	**129.727>>**	-354.583
590/	179/	321 (C)	**-0.437<<**	-0.436	-2.171
590/	179/	324 (C)	**209.182>>**	35.483	-512.659
589/	7/	363 (C)	217.224	84.241	**-817.684<<**
589/	179/	312 (C)	0.774	-7.443	**23.593>>**
589/	7/	305 (C)	155.643	**-42.473<<**	-362.087
589/	7/	366 (C)	40.885	**127.584>>**	-397.674
589/	7/	321 (C)	**-0.712<<**	-1.146	-1.479
589/	7/	324 (C)	**236.479>>**	61.615	-749.782
588/	7/	363 (C)	-184.163	95.133	**-819.944<<**
588/	181/	312 (C)	-4.830	-4.231	**27.814>>**
588/	181/	305 (C)	-59.598	**-17.155<<**	-301.681
588/	181/	366 (C)	-124.378	**116.418>>**	-276.437
588/	181/	363 (C)	**-184.163<<**	95.133	-635.783
588/	181/	321 (C)	**1.851>>**	-2.085	-3.333
587/	181/	363 (C)	-166.167	102.882	**-637.519<<**
587/	183/	312 (C)	-3.086	-0.266	**30.914>>**
587/	183/	321 (C)	1.422	**-3.180<<**	-4.744
587/	183/	363 (C)	-166.167	**102.882>>**	-471.339
587/	183/	363 (C)	**-166.167<<**	102.882	-471.339
587/	183/	321 (C)	**1.422>>**	-3.180	-4.744
586/	183/	363 (C)	-150.906	103.606	**-472.743<<**
586/	185/	312 (C)	-1.239	3.930	**32.054>>**
586/	185/	322 (C)	-18.986	**-5.200<<**	-69.915
586/	185/	363 (C)	-150.906	**103.606>>**	-321.839
586/	185/	323 (C)	**-151.893<<**	68.887	-30.347
585/	185/	321 (C)	**0.982>>**	-4.303	-5.690
585/	185/	363 (C)	-137.066	100.698	**-323.203<<**
585/	187/	323 (C)	-143.040	50.308	**111.754>>**
585/	187/	322 (C)	-21.885	**-13.888<<**	-47.947
585/	187/	324 (C)	-117.871	**105.821>>**	-165.877
585/	187/	323 (C)	**-143.040<<**	50.308	111.754
585/	187/	321 (C)	**0.553>>**	-5.402	-6.187
584/	187/	365 (C)	-26.413	105.432	**-261.056<<**
584/	362/	323 (C)	-135.125	29.237	**194.188>>**
584/	362/	322 (C)	-24.703	**-22.453<<**	-32.707
584/	362/	365 (C)	-26.413	**105.432>>**	-244.840
584/	362/	323 (C)	**-135.125<<**	29.237	194.188
584/	362/	312 (C)	**2.050>>**	11.225	29.940
583/	362/	365 (C)	-17.568	121.448	**-246.639<<**
583/	189/	323 (C)	-127.197	8.139	**272.681>>**
583/	189/	306 (C)	-92.058	**-35.141<<**	160.261
583/	189/	365 (C)	-17.568	**121.448>>**	-235.770
583/	189/	323 (C)	**-127.197<<**	8.139	272.681
583/	189/	312 (C)	**3.525>>**	14.440	27.613
582/	189/	365 (C)	-11.202	131.468	**-237.524<<**
582/	191/	323 (C)	-118.820	-11.963	**391.566>>**
582/	191/	306 (C)	-92.362	**-59.099<<**	253.136
582/	191/	365 (C)	-11.202	**131.468>>**	-226.321
582/	191/	323 (C)	**-118.820<<**	-11.963	391.566
582/	191/	312 (C)	**4.959>>**	17.543	22.479
581/	191/	365 (C)	-8.267	133.119	**-228.073<<**
581/	193/	323 (C)	-109.174	-29.011	**501.148>>**

592/	175/	312 (C)	-0.790<<	-10.362	22.460
592/	175/	366 (C)	27.385	112.689>>	-277.982
592/	175/	365 (C)	138.790	-109.615<<	39.160
592/	173/	365 (C)	138.790	-109.615	177.949>>
592/	175/	323 (C)	36.883	77.046	-340.538<<
593/	173/	324 (C)	130.508>>	-35.872	32.394
593/	173/	312 (C)	-0.843<<	-10.213	21.585
593/	173/	366 (C)	20.780	102.027>>	-249.541
593/	173/	365 (C)	121.998	-121.914<<	176.257
593/	171/	365 (C)	121.998	-121.914	298.254>>
593/	173/	323 (C)	29.541	61.332	-302.981<<
594/	171/	363 (C)	110.629>>	-23.672	47.930
594/	171/	312 (C)	-0.879<<	-10.040	20.689
594/	171/	306 (C)	4.832	95.199>>	-225.297
594/	171/	365 (C)	106.418	-131.100<<	296.881
594/	169/	365 (C)	106.418	-131.100	403.298>>
594/	171/	323 (C)	23.798	49.375	-273.261<<
595/	169/	363 (C)	93.532>>	-34.817	157.906
595/	169/	312 (C)	-0.946<<	-9.965	19.752
595/	169/	306 (C)	3.033	92.238>>	-219.777
595/	169/	365 (C)	91.320	-138.992<<	401.847
595/	167/	365 (C)	91.320	-138.992	493.166>>
595/	169/	323 (C)	19.969	41.998	-249.237<<
596/	167/	363 (C)	77.826>>	-42.541	250.763
596/	167/	304 (C)	-1.122<<	79.369	-170.988
596/	167/	306 (C)	2.007	91.207>>	-215.990
596/	167/	365 (C)	76.775	-145.546<<	491.623
596/	165/	365 (C)	76.775	-145.546	568.398>>
596/	167/	323 (C)	17.541	38.009	-228.979<<
597/	165/	363 (C)	63.264>>	-47.389	327.921
597/	165/	304 (C)	-1.490<<	79.759	-171.419
597/	165/	306 (C)	1.505	91.429>>	-213.196
597/	165/	365 (C)	62.808	-150.573<<	566.829
597/	163/	365 (C)	62.808	-150.573	629.637>>
597/	165/	306 (C)	1.505	91.429	-213.196<<
598/	163/	363 (C)	49.640>>	-49.904	390.535
598/	163/	304 (C)	-1.617<<	80.732	-172.191
598/	163/	306 (C)	1.343	92.471>>	-210.868
598/	163/	365 (C)	49.409	-154.150<<	628.046
598/	161/	365 (C)	49.409	-154.150	677.455>>
598/	163/	306 (C)	1.343	92.471	-210.868<<
599/	161/	363 (C)	36.783>>	-50.467	439.556
599/	161/	304 (C)	-1.605<<	82.029	-173.077
599/	161/	306 (C)	1.383	93.977>>	-208.680
599/	161/	365 (C)	36.557	-156.272<<	675.875
599/	159/	365 (C)	36.557	-156.272	712.431>>
599/	161/	306 (C)	1.383	93.977	-208.680<<
600/	159/	363 (C)	24.563>>	-49.539	475.743
600/	159/	324 (C)	-9.616<<	-99.194	496.923
600/	159/	306 (C)	1.527	95.771>>	-206.410
600/	159/	365 (C)	24.227	-157.214<<	710.827
600/	157/	365 (C)	24.227	-157.214	735.056>>
600/	159/	306 (C)	1.527	95.771	-206.410<<
601/	157/	323 (C)	15.375>>	40.756	-147.493
601/	157/	324 (C)	-26.823<<	-102.144	486.655
601/	157/	306 (C)	1.706	97.630>>	-203.985
601/	157/	365 (C)	12.392	-156.848<<	733.484
601/	155/	365 (C)	12.392	-156.848	745.876>>
601/	157/	306 (C)	1.706	97.630	-203.985<<
602/	155/	323 (C)	15.646>>	42.685	-131.591
602/	155/	324 (C)	-43.536<<	-104.126	459.214
602/	155/	306 (C)	1.875	99.445>>	-201.377
602/	155/	365 (C)	1.032	-155.224<<	744.346
602/	153/	365 (C)	1.032	-155.224	745.378>>
602/	155/	306 (C)	1.875	99.445	-201.377<<
603/	153/	323 (C)	15.909>>	44.516	-115.386
603/	153/	324 (C)	-43.866<<	-100.889	415.067
603/	153/	306 (C)	2.004	101.213>>	-198.571
603/	153/	365 (C)	-9.864	-152.603<<	743.853
603/	153/	365 (C)	-9.864	-152.603	743.853>>
603/	153/	306 (C)	2.004	101.213	-198.571<<
604/	151/	323 (C)	16.108>>	46.074	-98.901
604/	151/	324 (C)	-43.803<<	-96.949	370.623
604/	151/	306 (C)	2.079	102.847>>	-195.642
604/	151/	365 (C)	-20.299	-148.780<<	732.523
604/	151/	365 (C)	-20.299	-148.780	732.523>>
604/	151/	306 (C)	2.079	102.847	-195.642<<
605/	149/	323 (C)	16.190>>	47.240	-82.208
605/	149/	324 (C)	-43.423<<	-92.478	326.274
605/	149/	366 (C)	-3.525	104.659>>	-173.852
605/	149/	365 (C)	-30.270	-143.762<<	710.826
605/	149/	365 (C)	-30.270	-143.762	710.826>>
605/	149/	306 (C)	2.099	104.354	-192.648<<
606/	147/	323 (C)	16.109>>	47.926	-65.409
606/	147/	324 (C)	-42.773<<	-87.665	282.307
606/	147/	366 (C)	-4.455	107.499>>	-176.442
606/	147/	365 (C)	-39.772	-137.751<<	679.193
606/	147/	365 (C)	-39.772	-137.751	679.193>>
606/	147/	306 (C)	2.072	105.825	-189.618<<
607/	145/	323 (C)	15.816>>	47.992	-48.688
607/	145/	362 (C)	-50.846<<	-20.840	423.091
607/	145/	366 (C)	-5.301	110.572>>	-179.978
607/	145/	365 (C)	-48.799	-130.543<<	638.149
607/	145/	365 (C)	-48.799	-130.543	638.149>>
607/	145/	306 (C)	2.021	107.269	-186.634<<
608/	143/	323 (C)	15.257>>	47.311	-32.259
608/	143/	362 (C)	-59.197<<	-10.310	371.941
608/	143/	366 (C)	-5.996	114.059>>	-184.381
608/	143/	365 (C)	-57.357	-122.168<<	588.182
608/	143/	365 (C)	-57.357	-122.168	588.182>>
608/	141/	366 (C)	-5.996	114.059	-190.378<<
609/	141/	323 (C)	14.369>>	45.738	-16.379
609/	141/	362 (C)	-66.882<<	1.824	312.525
609/	141/	366 (C)	-6.449	118.263>>	-189.471
609/	141/	365 (C)	-65.471	-112.878<<	529.743
609/	141/	365 (C)	-65.471	-112.878	529.743>>
609/	139/	366 (C)	-6.449	118.263	-195.919<<
610/	139/	323 (C)	13.078>>	43.088	-1.396
610/	139/	362 (C)	-73.833<<	15.833	245.530
610/	139/	366 (C)	-6.532	123.459>>	-195.039
610/	139/	365 (C)	-73.204	-102.679<<	463.334
610/	139/	365 (C)	-73.204	-102.679	463.334>>
610/	137/	364 (C)	-8.072	122.233	-202.274<<
611/	137/	323 (C)	11.351>>	39.280	12.245
611/	137/	365 (C)	-79.947<<	-90.061	389.004
611/	137/	366 (C)	-6.659	128.617>>	-200.410
611/	137/	365 (C)	-79.947	-90.061<<	389.004
611/	137/	365 (C)	-79.947	-90.061	389.004>>
611/	135/	364 (C)	-8.048	127.571	-209.208<<
612/	135/	323 (C)	9.311>>	34.628	24.064
612/	135/	362 (C)	-85.164<<	50.294	92.136
612/	135/	366 (C)	-7.848	131.256>>	-205.581
612/	135/	365 (C)	-84.926	-73.208<<	307.977
612/	135/	365 (C)	-84.926	-73.208	307.977>>
612/	133/	364 (C)	-9.052	130.490	-216.810<<
613/	133/	323 (C)	7.272>>	29.934	33.676
613/	133/	362 (C)	-90.919<<	67.274	7.913
613/	133/	366 (C)	-11.252	128.427>>	-211.640
613/	133/	365 (C)	-88.247	-52.304<<	222.340
613/	133/	365 (C)	-88.247	-52.304	222.340>>
613/	131/	364 (C)	-12.271	127.963	-227.314<<
614/	131/	323 (C)	5.182>>	25.136	41.174
614/	131/	362 (C)	-98.895<<	78.735	-81.747
614/	131/	366 (C)	-18.327	116.601>>	-221.106
614/	131/	324 (C)	-27.380	-31.081<<	-22.214
614/	131/	365 (C)	-90.420	-28.670	133.725>>
614/	366/	364 (C)	-19.149	116.472	-232.608<<
615/	366/	323 (C)	3.074>>	20.283	43.322
615/	366/	361 (C)	-107.935<<	88.960	-115.704
615/	366/	364 (C)	-27.555	101.351>>	-230.919
615/	366/	324 (C)	-24.585	-22.476<<	-32.397
615/	366/	365 (C)	-92.306	-4.419	100.190>>
615/	129/	364 (C)	-27.555	101.351	-247.841<<
616/	129/	323 (C)	0.857>>	15.165	45.464
616/	129/	361 (C)	-118.743<<	93.409	-180.563
616/	129/	363 (C)	-118.688	96.065>>	-173.290
616/	129/	324 (C)	-21.805	-13.985<<	-47.571
616/	129/	305 (C)	-70.862	13.315	53.404>>
616/	127/	362 (C)	-118.620	92.357	-300.331<<
617/	127/	312 (C)	0.737>>	-3.351	-3.968
617/	127/	363 (C)	-132.373<<	93.495	-290.680
617/	127/	363 (C)	-132.373	93.495>>	-290.680
617/	127/	324 (C)	-18.930	-5.348<<	-69.456
617/	127/	323 (C)	-1.700	9.198	46.592>>
617/	125/	362 (C)	-131.807	90.969	-430.896<<
618/	125/	312 (C)	1.049>>	-2.540	-3.257
618/	125/	363 (C)	-147.418<<	87.465	-421.831
618/	125/	363 (C)	-147.418	87.465>>	-421.831
618/	125/	312 (C)	1.049	-2.540<<	-3.257
618/	125/	323 (C)	-4.415	2.809	45.041>>
618/	123/	362 (C)	-146.326	86.192	-576.032<<
619/	123/	312 (C)	1.357>>	-1.741	-2.217
619/	123/	363 (C)	-164.761<<	75.657	-567.825
619/	123/	365 (C)	-101.402	87.384>>	-240.601
619/	123/	304 (C)	-55.397	-15.428<<	-287.256
619/	123/	323 (C)	-7.002	-3.298	40.607>>
619/	9/	362 (C)	-163.165	75.589	-737.774<<
620/	9/	363 (C)	208.603>>	61.522	-730.955
620/	9/	312 (C)	-0.540<<	-1.051	-0.859
620/	9/	365 (C)	33.499	99.544>>	-339.562
620/	9/	306 (C)	149.980	-39.137<<	-338.233
620/	121/	323 (C)	1.266	-8.286	34.649>>
620/	9/	362 (C)	208.193	62.451	-736.110<<
621/	121/	363 (C)	186.995>>	38.761	-521.709
621/	121/	312 (C)	-0.339<<	-0.520	-1.385
621/	121/	365 (C)	32.887	103.354>>	-304.273
621/	121/	366 (C)	174.599	-66.291<<	-278.896
621/	121/	323 (C)	-0.100	-11.375	34.435>>
621/	121/	362 (C)	186.867	40.345	-527.239<<
622/	119/	361 (C)	164.831>>	16.242	-339.628
622/	119/	323 (C)	-0.834<<	-12.894	34.113
622/	119/	365 (C)	29.238	99.295>>	-269.688
622/	119/	366 (C)	153.746	-88.968<<	-105.687
622/	117/	306 (C)	115.899	-78.624	57.290>>
622/	119/	362 (C)	164.775	16.238	-340.046<<
623/	117/	361 (C)	143.406>>	-6.226	-175.135
623/	117/	323 (C)	-1.152<<	-13.396	33.105
623/	117/	365 (C)	24.135	91.475>>	-239.217
623/	117/	366 (C)	135.156	-105.914<<	46.405

623/	11S/	366 (C)	135.156	-105.914	181.565>
623/	11T/	365 (C)	24.135	91.475	-239.217<
624/	11S/	361 (C)	-24.338	-32.386	123.731>
624/	11S/	323 (C)	-13.385	31.826	-1.256<
624/	11S/	365 (C)	18.836	83.061>	-214.247
624/	11T/	366 (C)	118.718	-117.413<	179.952
624/	11T/	365 (C)	118.718	-117.413	298.661>
624/	11S/	365 (C)	18.836	-13.317	-214.247<
625/	11S/	362 (C)	-37.873	90.139	105.835>
625/	11S/	323 (C)	-13.317	30.488	-1.327<
625/	11S/	365 (C)	14.364	76.651>	-194.914
625/	11T/	366 (C)	103.432	-126.005<	297.351
625/	11T/	366 (C)	103.432	-126.005	400.786>
625/	11T/	365 (C)	14.364	76.651	-194.914<
626/	11T/	362 (C)	-48.015	195.246	89.344>
626/	11T/	323 (C)	-13.365	29.072	-1.440<
626/	11T/	365 (C)	11.011	72.934>	-180.030
626/	11T/	366 (C)	88.579	-133.404<	399.408
626/	10T/	366 (C)	88.579	-133.404	487.989>
626/	10S/	366 (C)	24.135	-133.404	-180.030<
627/	10S/	364 (C)	-137.360	483.014	74.463>
627/	10S/	323 (C)	-13.484	27.534	-1.572<
627/	10T/	366 (C)	74.248	-139.505	560.787>
627/	10S/	366 (C)	74.248	-139.505<	486.537
627/	10S/	365 (C)	8.465	71.197>	-168.455
627/	10S/	365 (C)	8.465	71.197	-168.455<
628/	10T/	323 (C)	-14.640	24.038	-1.840<
628/	10T/	364 (C)	-145.382	615.197	47.498>
628/	10T/	305 (C)	0.772	65.336	-165.274<
628/	10S/	366 (C)	60.475	-144.189	619.766>
628/	10T/	366 (C)	60.475	-144.189<	559.295
628/	10T/	365 (C)	6.489	70.837>	-159.392
628/	10T/	323 (C)	-13.630	25.857	-1.709<
628/	10T/	364 (C)	-142.086	556.000	60.699>
627/	10S/	365 (C)	8.465	71.197	-168.455<
627/	10T/	366 (C)	74.248	-139.505	560.787>
627/	10S/	366 (C)	74.248	-139.505<	486.537
627/	10S/	365 (C)	8.465	71.197>	-168.455
627/	10S/	323 (C)	-13.484	27.534	-1.572<
627/	10S/	364 (C)	-137.360	483.014	74.463>
626/	11T/	365 (C)	11.011	72.934	-180.030<
626/	10S/	366 (C)	88.579	-133.404	487.989>
626/	11T/	366 (C)	88.579	-133.404<	399.408
626/	11T/	365 (C)	11.011	72.934>	-180.030
626/	11T/	323 (C)	-13.365	29.072	-1.440<
626/	11T/	362 (C)	-48.015	195.246	89.344>
625/	11S/	365 (C)	14.364	76.651	-194.914<
625/	11T/	366 (C)	103.432	-126.005	400.786>
625/	11S/	366 (C)	103.432	-126.005<	297.351
625/	11S/	365 (C)	14.364	76.651>	-194.914
625/	11S/	323 (C)	-13.317	30.488	-1.327<
625/	11S/	362 (C)	-37.873	90.139	105.835>
624/	11S/	365 (C)	18.836	83.061	-214.247<
624/	11T/	366 (C)	118.718	-117.413	298.661>
624/	11S/	366 (C)	118.718	-117.413<	179.952
624/	11S/	365 (C)	18.836	83.061>	-214.247
624/	11S/	323 (C)	-13.385	31.826	-1.256<
623/	11S/	366 (C)	135.156	-105.914	181.565>

634/	9S/	324 (C)	19.082	-4.976>	-31.979
633/	9T/	305 (C)	0.723	71.043	-159.168<
633/	9T/	366 (C)	-0.382	-147.646	727.416>
633/	9T/	366 (C)	-0.382	-147.646<	727.416
633/	9T/	365 (C)	0.337	77.960>	-137.330
633/	9T/	323 (C)	-14.112	15.549	-2.213<
633/	9T/	324 (C)	18.554	-37.092	4.891>
632/	10S/	305 (C)	0.624	69.631	-160.445<
632/	9T/	366 (C)	10.801	-149.335	728.876>
632/	10S/	366 (C)	10.801	-149.335<	718.075
632/	10S/	365 (C)	1.338	75.979>	-139.379
632/	9S/	323 (C)	-14.083	17.822	-2.148<
632/	9S/	364 (C)	-147.329	715.793	11.068>
631/	10T/	305 (C)	0.541	68.274	-161.624<
631/	9S/	366 (C)	22.451	-149.956	719.553>
631/	10T/	366 (C)	22.451	-149.956<	697.104
631/	10T/	365 (C)	2.404	74.169>	-142.474
631/	10T/	323 (C)	-14.014	20.006	-2.063<
631/	10T/	364 (C)	-147.930	694.551	22.709>
630/	10T/	305 (C)	0.500	67.017	-162.751<
630/	10T/	366 (C)	34.597	-149.353	698.606>
630/	10S/	366 (C)	34.597	-149.353<	664.009
630/	10S/	365 (C)	3.571	72.596>	-146.721
630/	10S/	323 (C)	-13.909	22.083	-1.960<
630/	10S/	364 (C)	-147.305	661.196	34.843>
629/	10S/	305 (C)	0.553	65.978	-163.914<
629/	10S/	366 (C)	47.264	-147.453	665.522>
629/	10S/	366 (C)	47.264	-147.453<	618.256
629/	10S/	365 (C)	4.901	71.410>	-152.276
629/	10S/	323 (C)	-13.777	24.038	-1.840<
629/	10S/	364 (C)	-145.382	615.197	47.498>
628/	10T/	305 (C)	0.772	65.336	-165.274<
628/	10S/	366 (C)	60.475	-144.189	619.766>
628/	10T/	366 (C)	60.475	-144.189<	559.295
628/	10T/	365 (C)	6.489	70.837>	-159.392
628/	10T/	323 (C)	-13.630	25.857	-1.709<
628/	10T/	364 (C)	-142.086	556.000	60.699>
627/	10S/	365 (C)	8.465	71.197	-168.455<
627/	10T/	366 (C)	74.248	-139.505	560.787>
627/	10S/	366 (C)	74.248	-139.505<	486.537
627/	10S/	365 (C)	8.465	71.197>	-168.455
627/	10S/	323 (C)	-13.484	27.534	-1.572<
627/	10S/	364 (C)	-137.360	483.014	74.463>
626/	11T/	365 (C)	11.011	72.934	-180.030<
626/	10S/	366 (C)	88.579	-133.404	487.989>
626/	11T/	366 (C)	88.579	-133.404<	399.408
626/	11T/	365 (C)	11.011	72.934>	-180.030
626/	11T/	323 (C)	-13.365	29.072	-1.440<
626/	11T/	362 (C)	-48.015	195.246	89.344>
625/	11S/	365 (C)	14.364	76.651	-194.914<
625/	11T/	366 (C)	103.432	-126.005	400.786>
625/	11S/	366 (C)	103.432	-126.005<	297.351
625/	11S/	365 (C)	14.364	76.651>	-194.914
625/	11S/	323 (C)	-13.317	30.488	-1.327<
625/	11S/	362 (C)	-37.873	90.139	105.835>
624/	11S/	365 (C)	18.836	83.061	-214.247<
624/	11T/	366 (C)	118.718	-117.413	298.661>
624/	11S/	366 (C)	118.718	-117.413<	179.952
624/	11S/	365 (C)	18.836	83.061>	-214.247
624/	11S/	323 (C)	-13.385	31.826	-1.256<
623/	11S/	366 (C)	135.156	-105.914	181.565>

644/	7S/	366 (C)	-92.130	-55.470<	180.738
644/	7S/	365 (C)	-7.267	110.448>	-153.077
644/	7S/	366 (C)	-92.130<	-55.470	180.738
644/	7S/	324 (C)	1.469>	12.207	12.316
643/	7S/	365 (C)	-3.609	114.494	-154.507<
643/	7T/	364 (C)	-88.910	-74.959	271.114>
643/	7T/	366 (C)	-89.014	-76.233<	270.484
643/	7T/	365 (C)	-3.609	114.494>	-150.897
643/	7T/	366 (C)	-89.014<	-76.233	270.484
643/	7T/	305 (C)	3.615>	91.557	-131.887
642/	7T/	365 (C)	-2.416	112.582	-152.285<
642/	7S/	364 (C)	-83.953	-91.327	356.057>
642/	7S/	366 (C)	-84.101	-92.732<	355.586
642/	7S/	365 (C)	-2.416	112.582>	-149.869
642/	7S/	366 (C)	-84.101<	-92.732	355.586
642/	7S/	305 (C)	4.375>	91.879	-137.383
641/	7S/	365 (C)	-2.520	107.472	-151.022<
641/	8T/	364 (C)	-77.062	-102.947	434.333>
641/	8T/	366 (C)	-77.253	-104.478<	434.065
641/	8T/	365 (C)	-2.520	107.472>	-148.503
641/	8T/	366 (C)	-77.253<	-104.478	434.065
641/	8T/	305 (C)	3.973>	89.340	-142.323
640/	8T/	365 (C)	-3.109	101.234	-149.406<
640/	8T/	364 (C)	-68.503	-110.566	503.977>
640/	8T/	366 (C)	-68.728	-112.206<	503.949
640/	8T/	365 (C)	-3.109	101.234>	-146.297
640/	8T/	366 (C)	-68.728<	-112.206	503.949
640/	8T/	324 (C)	4.128>	18.329	-1.334
639/	8S/	305 (C)	2.170	81.998	-148.896<
639/	8S/	366 (C)	-59.547	-118.425	564.361>
639/	8S/	366 (C)	-59.547	-118.425<	564.361
639/	8S/	365 (C)	-3.479	95.613>	-143.494
639/	8S/	366 (C)	-59.547<	-118.425	564.361
639/	8S/	324 (C)	4.515>	19.125	-6.086
638/	8T/	305 (C)	1.625	79.313	-151.127<
638/	8T/	366 (C)	-50.364	-124.761	615.714>
638/	8T/	366 (C)	-50.364	-124.761<	615.714
638/	8T/	365 (C)	-3.377	91.237>	-140.805
638/	8T/	366 (C)	-50.364<	-124.761	615.714
638/	8T/	324 (C)	4.776>	19.587	-11.100
637/	8S/	305 (C)	1.288	77.199	-153.037<
637/	8S/	366 (C)	-41.017	-130.793	657.838>
637/	8S/	366 (C)	-41.017	-130.793<	657.838
637/	8S/	365 (C)	-2.946	87.736>	-138.559
637/	8S/	363 (C)	-35.672	-41.421<	457.145
637/	8S/	324 (C)	4.936>	19.771	-16.273
636/	9T/	305 (C)	1.078	75.444	-154.750<
636/	9T/	366 (C)	-31.404	-136.250	690.443>
636/	9T/	366 (C)	-31.404	-136.250<	690.443
636/	9T/	365 (C)	-2.293	84.830>	-136.972
636/	9T/	363 (C)	-43.317	-32.134<	489.711
636/	9T/	324 (C)	5.012>	19.724	-21.520
635/	9S/	305 (C)	0.937	73.893	-156.329<
635/	9S/	366 (C)	-21.455	-140.946	713.175>
635/	9S/	366 (C)	-21.455	-140.946<	713.175
635/	9S/	365 (C)	-1.497	82.315>	-136.186
635/	9S/	363 (C)	-22.380<	-49.834	512.586
635/	9S/	324 (C)	5.021>	19.483	-26.773
634/	9S/	305 (C)	0.825	72.441	-157.803<
634/	9S/	366 (C)	-11.126	-144.752	725.647>
634/	9S/	366 (C)	-11.126	-144.752<	725.647
634/	9S/	365 (C)	-0.611	80.048>	-136.289
634/	9S/	363 (C)	-12.180<	-55.264	525.320

655/	5T/	363 (C)	93.454>	-46.701	93.018
654/	5S/	366 (C)	22.729	54.314	-241.385<
654/	5T/	365 (C)	90.521	-83.663	291.965>
654/	5S/	365 (C)	90.521	-83.663<	201.443
654/	5S/	366 (C)	22.729	54.314>	-241.385
654/	5S/	324 (C)	-0.226<	-3.931	8.695
654/	5S/	362 (C)	110.972>	-32.250	-16.999
653/	6T/	366 (C)	26.903	63.278	-268.920<
653/	5S/	365 (C)	105.735	-73.813	202.432>
653/	6T/	365 (C)	105.735	-73.813<	96.706
653/	6T/	366 (C)	26.903	63.278>	-268.920
653/	6T/	323 (C)	-0.131<	0.535	-3.019
653/	6T/	362 (C)	129.909>	-14.255	-146.486
652/	6S/	366 (C)	30.849	71.492	-300.849<
652/	6T/	365 (C)	122.580	-59.915	97.820>
652/	6S/	365 (C)	122.580	-59.915<	-24.762
652/	6S/	364 (C)	30.877	71.527>	-300.454
652/	6S/	323 (C)	-0.283<	0.139	-2.759
652/	6S/	362 (C)	150.259>	7.095	-296.613
651/	6S/	363 (C)	171.007	29.484	-468.523<
651/	6S/	324 (C)	0.490	-2.422	8.830>
651/	6S/	305 (C)	106.012	-41.490<	-103.602
651/	6S/	364 (C)	33.202	75.589>	-335.231
651/	6S/	323 (C)	-0.510<	-0.447	-2.275
651/	6S/	362 (C)	171.104>	29.570	-468.169
650/	11/	363 (C)	191.003	49.616	-660.323<
650/	6S/	324 (C)	1.068	-1.083	8.401>
650/	11/	305 (C)	122.152	-23.144<	-225.044
650/	11/	364 (C)	32.408	71.545>	-369.317
650/	11/	323 (C)	-0.828<	-1.263	-1.470
650/	11/	362 (C)	191.156>	49.848	-660.119
649/	11/	363 (C)	-148.857	62.887	-661.789<
649/	6T/	324 (C)	-3.347	0.848	10.732>
649/	6T/	323 (C)	2.044	-2.333<	-3.526
649/	6T/	362 (C)	-149.230	63.309>	-512.349
649/	6T/	362 (C)	-149.230<	63.309	-512.349
649/	6T/	323 (C)	2.044>	-2.333	-3.526
648/	6T/	363 (C)	-133.293	71.532	-514.336<
648/	6S/	324 (C)	-2.358	3.200	13.086>
648/	6S/	323 (C)	1.550	-3.590<	-5.067
648/	6S/	362 (C)	-133.579	72.177>	-380.189
648/	6S/	362 (C)	-133.579<	72.177	-380.189
648/	6S/	323 (C)	1.550>	-3.590	-5.067
647/	6S/	363 (C)	-120.028	74.214	-382.240<
647/	7T/	324 (C)	-1.316	5.667	14.342>
647/	7T/	323 (C)	1.039	-4.886<	-6.070
647/	7T/	362 (C)	-120.223	75.087>	-261.157
647/	7T/	362 (C)	-120.223<	75.087	-261.157
647/	7T/	323 (C)	1.039>	-4.886	-6.070
646/	7T/	363 (C)	-108.112	73.415	-263.361<
646/	7S/	364 (C)	-95.464	-6.351	19.960>
646/	7S/	366 (C)	-95.410	-7.187<	19.142
646/	7S/	365 (C)	-22.843	82.325>	-167.078
646/	7S/	362 (C)	-108.217<	74.516	-154.100
646/	7S/	323 (C)	0.536>	-6.166	-6.546
645/	7S/	365 (C)	-14.155	98.608	-168.445<
645/	37O/	364 (C)	-93.967	-30.775	78.104>
645/	37O/	366 (C)	-93.968	-31.761<	77.294
645/	37O/	365 (C)	-14.155	98.608>	-159.699
645/	37O/	362 (C)	-98.527<	68.208	-94.485
645/	37O/	324 (C)	0.600>	10.171	14.064
644/	37O/	365 (C)	-7.267	110.448	-161.210<
644/	7S/	364 (C)	-92.075	-54.337	181.480>

655/	57/	324 (C)	-0.325<<	-4.096	8.440
655/	57/	366 (C)	19.485	47.520>>	-218.407
655/	57/	365 (C)	75.889	-92.099<<	291.307
655/	55/	365 (C)	75.889	-92.099	367.197>>
655/	57/	366 (C)	19.485	47.520	-218.407<<
656/	55/	363 (C)	77.021>>	-58.815	185.974
656/	55/	324 (C)	-0.417<<	-4.255	8.082
656/	55/	366 (C)	17.503	43.796>>	-198.616
656/	55/	365 (C)	61.203	-100.823<<	366.415
656/	53/	365 (C)	61.203	-100.823	427.619>>
656/	55/	366 (C)	17.503	43.796	-198.616<<
657/	53/	363 (C)	61.533>>	-68.755	262.459
657/	53/	324 (C)	-0.503<<	-4.400	7.629
657/	53/	366 (C)	16.438	42.230>>	-180.764
657/	53/	365 (C)	46.641	-109.314<<	426.758
657/	51/	365 (C)	46.641	-109.314	473.400>>
657/	53/	366 (C)	16.438	42.230	-180.764<<
658/	51/	363 (C)	46.878>>	-76.836	323.424
658/	51/	324 (C)	-0.580<<	-4.528	7.089
658/	51/	366 (C)	16.022	42.174>>	-163.929
658/	51/	365 (C)	32.332	-117.308<<	472.464
658/	49/	365 (C)	32.332	-117.308	504.797>>
658/	51/	366 (C)	16.022	42.174	-163.929<<
659/	49/	363 (C)	32.976>>	-83.241	369.719
659/	49/	324 (C)	-0.648<<	-4.639	6.470
659/	49/	366 (C)	16.042	43.091>>	-147.466
659/	49/	365 (C)	18.387	-124.499<<	503.806
659/	47/	365 (C)	18.387	-124.499	522.192>>
659/	49/	366 (C)	16.042	43.091	-147.466<<
660/	47/	363 (C)	19.792>>	-88.185	402.073
660/	47/	324 (C)	-0.707<<	-4.732	5.781
660/	47/	366 (C)	16.326	44.597>>	-130.930
660/	47/	365 (C)	4.927	-130.761<<	521.116
660/	45/	365 (C)	4.927	-130.761	526.043>>
660/	47/	366 (C)	16.326	44.597	-130.930<<
661/	45/	366 (C)	16.729>>	46.293	-114.068
661/	45/	365 (C)	-7.895<<	-135.586	524.917
661/	45/	366 (C)	16.729	46.293>>	-114.068
661/	45/	365 (C)	-7.895	-135.586<<	524.917
661/	45/	365 (C)	-7.895	-135.586	524.917>>
661/	45/	366 (C)	16.729	46.293	-114.068<<
662/	43/	366 (C)	17.117>>	47.861	-96.757
662/	43/	365 (C)	-19.868<<	-138.523	515.833
662/	43/	366 (C)	17.117	47.861>>	-96.757
662/	43/	365 (C)	-19.868	-138.523<<	515.833
662/	43/	365 (C)	-19.868	-138.523	515.833>>
662/	43/	366 (C)	17.117	47.861	-96.757<<
663/	41/	366 (C)	17.353>>	48.955	-79.017
663/	41/	365 (C)	-30.692<<	-138.803	494.722
663/	41/	366 (C)	17.353	48.955>>	-79.017
663/	41/	365 (C)	-30.692	-138.803<<	494.722
663/	41/	365 (C)	-30.692	-138.803	494.722>>
663/	41/	366 (C)	17.353	48.955	-79.017<<
664/	39/	366 (C)	17.286>>	49.220	-60.984
664/	39/	365 (C)	-39.953<<	-135.564	462.687
664/	39/	366 (C)	17.286	49.220>>	-60.984
664/	39/	365 (C)	-39.953	-135.564<<	462.687
664/	39/	365 (C)	-39.953	-135.564	462.687>>
664/	39/	366 (C)	17.286	49.220	-60.984<<
665/	37/	366 (C)	16.733>>	48.182	-42.976
665/	37/	365 (C)	-47.085<<	-127.281	421.330
665/	37/	366 (C)	16.733	48.182>>	-42.976
665/	37/	365 (C)	-47.085	-127.281<<	421.330

665/	37/	365 (C)	-47.085	-127.281	421.330>>
665/	37/	366 (C)	16.733	48.182	-42.976<<
666/	35/	366 (C)	15.466>>	45.274	-25.478
666/	35/	365 (C)	-51.330<<	-112.101	372.783
666/	35/	366 (C)	15.466	45.274>>	-25.478
666/	35/	365 (C)	-51.330	-112.101<<	372.783
666/	35/	365 (C)	-51.330	-112.101	372.783>>
666/	35/	366 (C)	15.466	45.274	-25.478<<
667/	33/	366 (C)	13.194>>	39.776	-9.190
667/	33/	365 (C)	-51.698<<	-87.694	319.900
667/	33/	366 (C)	13.194	39.776>>	-9.190
667/	33/	365 (C)	-51.698	-87.694<<	319.900
667/	33/	365 (C)	-51.698	-87.694	319.900>>
667/	33/	366 (C)	13.194	39.776	-9.190<<
668/	31/	366 (C)	9.543>>	30.753	4.866
668/	31/	365 (C)	-46.912<<	-50.800	266.615
668/	31/	366 (C)	9.543	30.753>>	4.866
668/	31/	365 (C)	-46.912	-50.800<<	266.615
668/	31/	363 (C)	-38.227	-21.306	271.420>>
668/	29/	324 (C)	-0.430	-3.697	-1.058<<
669/	29/	366 (C)	4.039>>	17.019	15.308
669/	29/	365 (C)	-35.348<<	2.574	218.113
669/	29/	363 (C)	-31.702	19.469>>	232.428
669/	29/	324 (C)	-0.154	-2.973<<	-1.116
669/	29/	363 (C)	-31.702	19.469	232.428>>
669/	374/	324 (C)	-0.154	-2.973	-1.309<<
670/	374/	324 (C)	0.300>>	-1.809	-1.369
670/	703/	363 (C)	-23.232<<	74.295	183.889
670/	374/	365 (C)	-14.401	78.964>>	172.371
670/	374/	364 (C)	-4.876	-5.365<<	21.241
670/	374/	363 (C)	-18.922	75.415	192.105>>
670/	374/	324 (C)	0.300	-1.809	-1.369<<
671/	703/	324 (C)	0.300>>	-1.809	-1.252
671/	702/	363 (C)	-34.332<<	71.466	155.001
671/	703/	365 (C)	-18.711	77.895>>	165.886
671/	703/	364 (C)	-4.876	-5.359<<	19.350
671/	703/	363 (C)	-23.232	74.351	183.866>>
671/	703/	324 (C)	0.300	-1.809	-1.252<<
672/	702/	324 (C)	0.300>>	-1.809	-0.952
672/	701/	363 (C)	-45.432<<	68.566	115.042
672/	702/	365 (C)	-29.811	74.996>>	141.549
672/	702/	364 (C)	-4.876	-5.360<<	14.473
672/	702/	363 (C)	-34.332	71.451	155.008>>
672/	702/	324 (C)	0.300	-1.809	-0.952<<
673/	701/	324 (C)	0.300>>	-1.809	-0.652
673/	700/	363 (C)	-56.532<<	65.681	63.976
673/	701/	365 (C)	-40.911	72.111>>	106.104
673/	701/	364 (C)	-4.876	-5.360<<	9.597
673/	701/	363 (C)	-45.432	68.566	115.042>>
673/	701/	324 (C)	0.300	-1.809	-0.652<<
674/	700/	324 (C)	0.300>>	-1.809	-0.352
674/	13/	363 (C)	-67.631<<	62.803	1.810
674/	700/	365 (C)	-52.012	69.232>>	59.551
674/	700/	364 (C)	-4.876	-5.360<<	4.721
674/	700/	363 (C)	-56.532	65.687	63.969>>
674/	700/	324 (C)	0.300	-1.809	-0.352<<

COMBINACIÓN DE ESFUERZOS EN E.L.U.

Definición Combinación de Acciones - ELU

ELU - 1	1,35*Peso Vigas Construcción
ELU - 2	1,35*(Peso Vigas Construcción+Unión Vigas sobre Pilas)
ELU - 3	1,35*(Peso Vigas Construcción+Unión Vigas sobre Pilas+Peso Losa Construcción)
ELU - 4	1,35*Peso Vigas Construcción+Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes)
ELU - 5	1,35*(Peso Vigas Construcción+Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes)+1,5*Trenes - Max
ELU - 6	1,35*(Peso Vigas Construcción+Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes)+1,5*Trenes - Min
ELU - 7	1,35*(Peso Vigas Construcción+Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes)+1,5*(Trenes - Max+Aceras - Max)
ELU - 8	1,35*(Peso Vigas Construcción+Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes)+1,5*(Trenes - Min+Aceras - Min)
ELU - 9	1,35*(Peso Vigas Construcción+Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes)+1,5*Trenes - Max+1,2*Gradiente Térmico
ELU - 10	1,35*(Peso Vigas Construcción+Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes)+1,5*(Trenes - Min)+1,2*(Gradiente Térmico)
ELU - 11	1,35*(Peso Vigas Construcción+Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes)+1,5*(Trenes - Max+Aceras - Max)+1,2*(Gradiente Térmico)
ELU - 12	1,35*(Peso Vigas Construcción+Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes)+1,5*(Trenes - Min+Aceras - Min)+1,2*(Gradiente Térmico)
ELU - 13	1,35*((0,463*Peso Vigas Construcción+0,537*Peso Vigas sobre Cimbra)+(Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes+Retracción+Permanentes Fisuración))
ELU - 14	1,35*((0,463*Peso Vigas Construcción+0,537*Peso Vigas sobre Cimbra)+(Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes+Retracción+Permanentes Fisuración))+1,5*Trenes - Max
ELU - 15	1,35*((0,463*Peso Vigas Construcción+0,537*Peso Vigas sobre Cimbra)+(Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes+Retracción+Permanentes Fisuración))+1,5*Trenes - Min
ELU - 16	1,35*((0,463*Peso Vigas Construcción+0,537*Peso Vigas sobre Cimbra)+(Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes+Retracción+Permanentes Fisuración))+1,5*(Trenes - Max+Aceras - Max)
ELU - 17	1,35*((0,463*Peso Vigas Construcción+0,537*Peso Vigas sobre Cimbra)+(Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes+Retracción+Permanentes Fisuración))+1,5*(Trenes - Min+Aceras - Min)
ELU - 18	1,35*((0,463*Peso Vigas Construcción+0,537*Peso Vigas sobre Cimbra)+(Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes+Retracción+Permanentes Fisuración))+1,5*(Trenes - Max)+1,2*(Gradiente Térmico)
ELU - 19	1,35*((0,463*Peso Vigas Construcción+0,537*Peso Vigas sobre Cimbra)+(Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes+Retracción+Permanentes Fisuración))+1,5*(Trenes - Min)+1,2*(Gradiente Térmico)
ELU - 20	1,35*((0,463*Peso Vigas Construcción+0,537*Peso Vigas sobre Cimbra)+(Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes+Retracción+Permanentes Fisuración))+1,5*(Trenes - Max+Aceras - Max)+1,2*(Gradiente Térmico)
ELU - 21	1,35*((0,463*Peso Vigas Construcción+0,537*Peso Vigas sobre Cimbra)+(Unión Vigas sobre Pilas+Peso Losa Construcción+Cargas Permanentes+Retracción+Permanentes Fisuración))+1,5*(Trenes - Min+Aceras - Min)+1,2*(Gradiente Térmico)

Combinacion de Esfuerzos Flectores - ELU

Nota: Todos los Esfuerzos estan expresados en [T·m]

Posición	ELU - 1	ELU - 2	ELU - 3	ELU - 4	ELU - 5	ELU - 6	ELU - 7	ELU - 8	ELU - 9	ELU - 10	ELU - 11	ELU - 12	ELU - 13	ELU - 14	ELU - 15	ELU - 16	ELU - 17	ELU - 18	ELU - 19	ELU - 20	ELU - 21
0.0	0.0	0.0	1.1	-0.7	1.0	-4.7	1.2	-5.0	1.6	-4.2	1.8	-4.4	-1.8	-0.1	-5.8	0.1	-6.1	0.5	-5.3	0.7	-5.5
1.0	48.0	45.3	105.5	235.2	570.1	172.1	582.2	172.9	575.3	177.3	587.5	178.1	284.0	618.9	220.9	631.1	221.7	624.1	226.1	636.3	226.9
2.0	87.5	82.1	195.5	431.2	1035.0	315.8	1057.5	317.0	1049.1	329.9	1071.5	331.0	520.6	1124.4	405.2	1146.9	406.3	1138.4	419.2	1160.9	420.3
3.0	123.4	115.3	275.3	595.5	1411.6	436.4	1442.6	437.5	1436.9	461.7	1467.9	462.9	718.5	1534.6	559.4	1565.5	560.5	1559.9	584.7	1590.9	585.9
4.0	155.9	145.1	344.8	731.2	1713.0	534.0	1750.7	534.8	1751.0	572.1	1788.8	572.9	882.1	1863.9	685.0	1901.7	685.8	1902.0	723.0	1939.7	723.8
5.0	184.9	171.4	404.1	840.6	1949.3	609.0	1992.2	609.1	2000.7	660.4	2043.6	660.4	1015.0	2123.7	783.3	2166.6	783.4	2175.1	834.7	2218.0	834.8
6.0	210.4	194.2	453.1	925.7	2128.3	661.7	2175.8	660.7	2193.1	726.6	2240.7	725.5	1119.8	2322.4	855.8	2369.9	854.8	2387.2	920.7	2434.8	919.6
7.0	232.4	213.5	491.8	987.9	2255.5	692.7	2306.6	690.1	2333.5	770.7	2384.7	768.1	1199.0	2466.6	903.7	2517.7	901.2	2544.6	981.8	2595.7	979.2
8.0	250.9	229.3	520.3	1028.2	2335.1	702.1	2388.8	697.8	2425.8	792.9	2479.6	788.5	1254.2	2561.1	928.2	2614.8	923.8	2651.9	1018.9	2705.6	1014.5
9.0	266.0	241.7	538.5	1047.4	2370.1	690.5	2425.4	684.0	2473.1	793.4	2528.3	786.9	1287.1	2609.8	930.2	2665.1	923.6	2712.7	1033.1	2768.0	1026.6
10.0	277.5	250.5	546.5	1046.1	2362.8	658.1	2418.6	649.1	2477.3	772.6	2533.1	763.6	1298.7	2615.4	910.6	2671.2	901.7	2729.9	1025.1	2785.7	1016.2
11.0	285.6	255.9	544.2	1024.5	2314.8	605.0	2370.2	593.5	2440.2	730.4	2495.6	718.9	1290.0	2580.2	870.4	2635.6	858.9	2705.6	995.8	2761.0	984.3
12.0	290.2	257.8	531.7	983.0	2227.3	531.4	2281.2	517.3	2363.0	667.1	2416.9	653.0	1261.8	2506.1	810.2	2560.0	796.1	2641.9	946.0	2695.8	931.9
13.0	291.3	256.3	508.9	921.4	2101.3	437.2	2152.6	420.6	2246.7	582.7	2298.0	566.1	1215.0	2394.8	730.8	2446.1	714.1	2540.3	876.3	2591.6	859.6
14.0	289.0	251.2	475.9	839.8	1937.5	322.3	1985.0	303.4	2092.2	477.0	2139.7	458.1	1150.2	2247.8	632.7	2295.4	613.7	2402.5	787.4	2450.1	768.4
15.0	283.1	242.7	432.6	738.1	1736.6	186.3	1779.1	165.5	1900.0	349.7	1942.5	328.9	1068.3	2066.8	516.6	2109.3	495.7	2230.2	679.9	2272.7	659.1
16.0	273.8	230.6	379.0	615.8	1499.1	28.6	1535.1	6.5	1670.7	200.2	1706.8	178.1	970.0	1853.4	382.9	1889.4	360.8	2025.0	554.5	2061.0	532.4
17.0	261.0	215.1	315.2	472.5	1243.2	-151.8	1271.2	-174.2	1422.7	27.7	1450.6	5.3	856.3	1627.0	232.0	1655.0	209.6	1806.5	411.5	1834.5	389.1
18.0	244.7	196.1	241.1	307.7	948.7	-356.2	966.8	-377.8	1135.7	-169.1	1153.9	-190.8	728.4	1369.4	64.5	1387.5	42.9	1556.4	251.6	1574.6	229.9
19.0	224.9	173.7	156.8	120.5	614.9	-586.3	621.4	-605.9	809.4	-391.8	815.9	-411.4	587.6	1081.9	-119.3	1088.4	-138.9	1276.4	75.2	1282.9	55.6
20.0	201.7	147.7	62.2	-90.0	253.8	-844.9	246.4	-868.3	455.7	-642.9	448.4	-666.3	433.5	777.3	-321.3	769.9	-344.7	979.3	-119.3	971.9	-142.7
21.0	174.9	118.8	-42.1	-300.1	-50.7	-1099.4	-62.5	-1131.6	157.5	-891.1	145.8	-923.4	297.8	547.2	-501.4	535.5	-533.7	755.5	-293.2	743.7	-325.4
21.5	160.3	102.4	-98.7	-445.2	-253.6	-1282.7	-261.1	-1321.9	-40.4	-1069.5	-48.0	-1108.8	185.0	376.7	-652.4	369.1	-691.7	589.8	-439.3	582.3	-478.5
22.5	128.3	67.8	-218.9	-725.8	-528.9	-1634.5	-527.8	-1687.0	-307.6	-1413.3	-306.6	-1465.8	-19.8	177.1	-928.6	178.1	-981.1	398.3	-707.3	399.4	-759.8
23.5	92.9	603.8	224.8	-461.5	-243.2	-1566.1	-231.8	-1642.4	-14.0	-1336.9	-2.5	-1413.1	320.0	538.3	-784.6	549.7	-860.9	767.5	-555.4	779.0	-631.6
24.5	52.7	560.9	83.8	-802.2	-560.0	-2160.4	-536.4	-2263.4	-323.3	-1923.6	-299.6	-2026.7	47.1	289.3	-1311.1	312.9	-1414.1	526.0	-1074.3	549.7	-1177.4
25.5	0.0	505.6	-78.3	-1185.3	-916.7	-2822.0	-879.2	-2955.0	-673.1	-2578.4	-635.6	-2711.4	-275.1	-6.5	-1911.7	31.0	-2044.8	237.2	-1668.1	274.7	-1801.1
26.5	61.6	568.0	85.5	-791.3	-568.3	-2062.2	-536.6	-2168.8	-326.5	-1820.4	-294.7	-1926.9	145.9	368.9	-1125.0	400.7	-1231.5	610.8	-883.2	642.5	-989.7
27.5	110.8	43.8	-344.1	-1013.0	-833.6	-1991.2	-806.3	-2074.1	-594.2	-1751.8	-566.9	-1834.6	-63.6	115.7	-1041.9	143.0	-1124.8	355.2	-802.5	382.4	-885.3
28.5	155.2	89.0	-211.0	-693.8	-556.2	-1486.8	-532.6	-1548.7	-319.6	-1250.2	-296.0	-1312.1	249.5	387.2	-543.5	410.8	-605.3	623.8	-306.8	647.4	-368.7
29.5	196.1	130.8	-88.2	-406.3	-198.4	-1132.5	-177.7	-1175.9	35.2	-898.9	55.9	-942.3	519.4	727.3	-206.8	748.0	-250.2	960.9	26.8	981.6	-16.6
30.5	233.5	169.0	24.4	-149.2	273.7	-813.1	292.0	-840.4	504.2	-582.6	522.6	-609.9	750.7	1173.6	86.8	1191.9	59.5	1404.1	317.3	1422.4	290.0
31.5	267.5	203.8	126.7	78.8	684.8	-527.0	701.2	-540.3	912.3	-299.6	928.6	-312.9	947.4	1553.4	341.5	1569.7	328.3	1780.9	569.0	1797.2	555.7
32.5	298.0	235.1	218.8	279.0	1037.5	-272.6	1052.0	-273.7	1262.0	-48.1	1276.4	-49.3	1112.8	1871.3	561.2	1885.7	560.0	2095.7	785.6	2110.2	784.5
33.5	324.9	262.9	300.6	452.7	1334.2	-48.1	1356.2	-38.8	1555.8	173.5	1577.8	182.8	1249.6	2131.2	748.8	2153.2	758.2	2352.7	970.4	2374.7	979.8
34.5	348.5	287.3	372.1	601.0	1577.3	148.1	1606.4	158.9	1796.1	366.9	1825.2	377.7	1360.1	2336.4	907.2	2365.5	918.0	2555.2	1126.0	2584.3	1136.8
35.5	368.5	308.1	433.4	725.1	1769.0	289.8	1803.7	298.5	1985.1	505.9	2019.7	514.6	1446.1	2490.0	1010.8	2524.7	1019.5	2706.1	1226.9	2740.7	1235.6
36.5	385.0	325.5	484.5	825.8	1921.0	400.5	1959.8	406.9	2134.4	613.9	2173.2	620.4	1508.9	2604.1	1083.6	2642.9	1090.1	2817.6	1297.1	2856.4	1303.5
37.5	398.1	339.4	525.3	903.9	2048.8	487.9	2090.3	491.9	2259.7	698.8	2301.2	702.8	1549.8	2694.7	1133.8	2736.2	1137.8	2905.6	1344.7	2947.1	1348.7
38.5	407.7	349.8	555.8	959.9	2133.4	552.8	2176.3	554.0	2341.9	761.2	2384.8	762.4	1569.5	2743.0	1162.4	2785.9	1163.6	2951.5	1370.8	2994.4	1372.0
39.5	413.7	356.7	576.1	994.5	2176.4	595.6	2221.2	593.8	2382.4	801.6	2427.2	799.8	1569.0	2750.9	1170.1	2795.7	1168.2	2956.9	1376.1	3001.7	1374.3
40.5	416.4	360.1	586.1	1007.9	2178.9	614.5	2225.8	609.4	2382.6	818.2	2429.5	813.1	1548.7	2719.7	1155.4	2766.7	1150.3	2923.4	1359.0	2970.3	1354.0
41.5	415.5	360.1	585.9	1000.4	2142.2	597.2	2190.1	588.8	2343.5	798.5	2391.5	790.2	1509.4	2651.3	1106.3	2699.2	1097.9	2852.6	1307.6	2900.6	1299.2
42.5	411.1	356.5	575.4	972.1	2067.4	558.7	2115.3	547.0	2266.4	757.8	2314.4	746.1	1451.6	2546.9	1038.3	2594.9	1026.6	2746.0	1237.4	2793.9	1225.6
43.5	403.3	349.5	554.6	923.1	1955.6	495.7	2002.4	480.8	2152.5	692.5	2199.2	677.6	1376.0	2408.5	948.6	2455.3	933.6	2605.4	1145.4	2652.1	1130.5
44.5	392.0	339.0	523.6	853.4	1808.0	407.3	1852.3	389.4	2002.6	601.9	2046.9	584.0	1283.1	2237.7	837.0	2282.0	819.1	2432.4	1031.7	2476.7	1013.8
45.5	377.2	325.1	482.4	762.7	1625.4	295.1	1665.8	274.8	1817.9	487.6	1858.4	467.3	1173.8	2036.5	706.3	2077.0	685.9	2229.1	898.8	2269.5	878.4
46.5	358.9	307.6	430.9	650.8	1408.8	158.5	1443.9	136.4	1599.4	349.1	1634.5	327.0	1048.9	1807.0	556.7	1842.1	534.6	1997.5	747.2	2032.6	725.1
47.5	337.1	286.7	369.1	517.2	1159.1	-3.6	1187.1	-26.6	1347.9	185.2	1375.9	162.2	909.3	1551.3	388.6	1579.3	365.6	1740.0	577.4	1768.1	554.4
48.5	311.9	262.3	297.1	361.3	876.7	-192.6	895.8	-215.3	1064.0	-5.4	1083.1	-28.0	756.3	1271.8	202.4	1290.9	179.8	1459.0	389.7	1478.1	367.0
49.5	283.2	234.4	214.8	182.5	562.0	-410.4	570.0	-431.4	748.1	-224.3	756.1	-245.3	591.4	971.0	-1.4	979.0	-22.4	1157.1	184.7	1165.1	163.7
50.5	250.9	203.0	122.2	-20.4	214.2	-659.5	208.9	-682.5	399.7	-474.0	394.5	-497.0	414.4	649.0	-224.7	643.7	-247.7	834.5	-39.2	829.3	-62.2
51.0	233.5	186.3	72.4	-179.0	-75.0	-1045.2	-88.5	-1077.6	110.6	-859.5	97.2	-891.9	249.1	353.0	-617.1	339.6	-649.5	538.6	-431.5	525.2	-463.9
52.0	196.1	149.4	-35.8	-372.9	-258.4	-1417.4	-267.7	-1456.8	-72.3	-1231.2	-81.6	-1270.6	124.0	238.4	-920.5	229.1	-959.9	424.6	-734.4	415.3	-773.8
53.0	155.2	109.3	-154.0	-648.3	-519.0	-2008.8	-519.7	-2060.5	-331.5	-1821.3	-332.2	-1873.0	-102.0	27.2	-1462.6	26.5	-1514.3	214.8	-1275.0	214.1	-1326.7
54.0	110.8	639.9	291.8	-379.8	-238.3	-2059.4	-228.4	-2134.5	-49.0	-1870.1	-39.1	-1945.2	217.2	358.7	-1462.4	368.5	-1537.5	547.9	-1273.1	557.8	-1348.2
55.0	61.6	591.5	151.9	-717.8	-566.7	-2720.4	-544.3	-2822.8	-375.7	-2529.4	-353.4	-2631.8	-75.1	76.0	-2077.7	98.3	-2180.1	267.0	-1886.8	289.3	-1989.2
56.0	0.0	530.7	-7.3	-1097.2	-939.1	-3428.5	-902.4	-3561.5	-746.7	-3236.1	-710.0	-3369.1	-416.1	-258.0	-2747.4	-221.3	-2880.5	-65.6	-2555.0	-28.9	-2688.1
57.0	60.7	591.1	150.8	-708.5	-552.9	-2646.2	-522.3	-2751.9	-359.8	-2453.2	-329.3	-2558.9	12.6	168.3	-1925.1	198.8	-2030.8	361.3	-1732.0	391.9	-1837.7
58.0	109.0	64.9	-283.6	-935.1	-783.8	-2488.8	-758.1	-2570.3	-590.5	-2295.6	-564.8	-2377.0	-189.4	-38.0	-1743.1	-12.3	-1824.6	155.2	-1549.8	181.0	-1631.3

Combinacion de Esfuerzos Flectores - ELU

Nota: Todos los Esfuerzos estan expresados en [T·m]

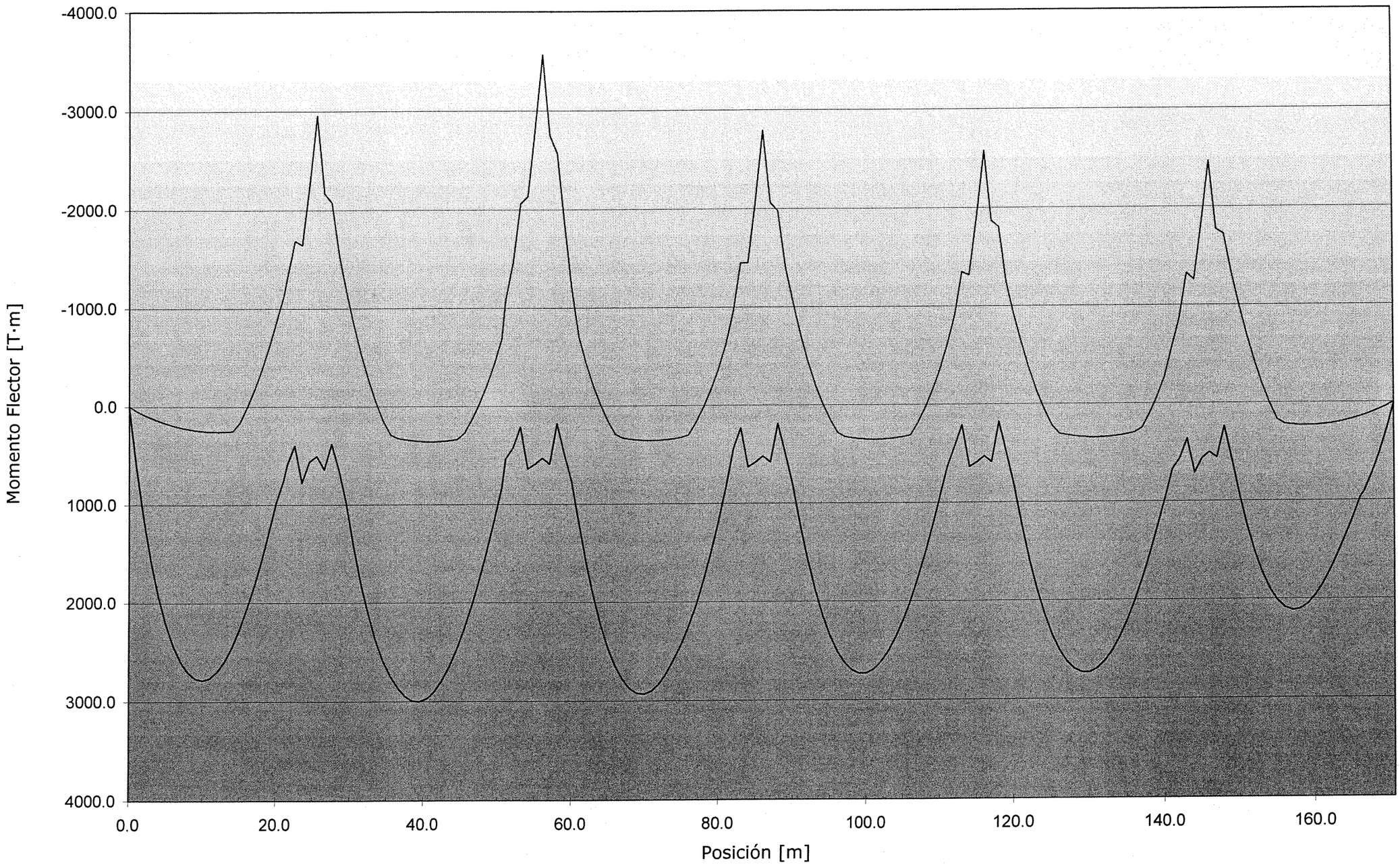
Posición	ELU - 1	ELU - 2	ELU - 3	ELU - 4	ELU - 5	ELU - 6	ELU - 7	ELU - 8	ELU - 9	ELU - 10	ELU - 11	ELU - 12	ELU - 13	ELU - 14	ELU - 15	ELU - 16	ELU - 17	ELU - 18	ELU - 19	ELU - 20	ELU - 21
59.0	152.6	108.2	-155.7	-621.9	-476.2	-1803.0	-454.3	-1863.1	-283.0	-1609.8	-261.1	-1669.9	130.9	276.6	-1050.3	298.5	-1110.4	469.7	-857.1	491.6	-917.2
60.0	192.6	147.9	-38.1	-340.5	-189.3	-1161.1	-170.4	-1202.4	3.7	-968.1	22.5	-1009.5	407.2	558.4	-413.3	577.3	-454.7	751.4	-220.4	770.2	-261.8
61.0	229.2	184.1	69.3	-89.8	256.4	-672.8	272.8	-698.0	449.1	-480.2	465.4	-505.3	644.4	990.6	61.4	1007.0	36.2	1183.3	254.1	1199.7	228.9
62.0	262.3	216.9	166.4	131.6	674.1	-420.0	688.5	-431.1	866.5	-227.6	880.9	-238.6	846.7	1389.2	295.1	1403.5	284.0	1581.6	487.5	1595.9	476.4
63.0	291.9	246.2	253.3	325.0	1034.9	-198.3	1048.4	-197.3	1227.1	-6.1	1240.5	-5.1	1017.3	1727.2	494.0	1740.7	495.0	1919.4	686.2	1932.9	687.2
64.0	318.0	272.0	329.9	491.8	1341.6	-6.3	1363.6	4.4	1533.6	185.7	1555.6	196.3	1159.3	2009.0	661.1	2031.1	671.8	2201.0	853.1	2223.1	863.8
65.0	340.6	294.3	396.2	633.3	1596.9	157.3	1625.9	166.1	1788.8	349.1	1817.8	358.0	1274.9	2238.5	798.9	2267.5	807.7	2430.4	990.7	2459.4	999.6
66.0	359.8	313.1	452.3	750.3	1803.2	289.6	1837.7	296.5	1995.0	481.4	2029.5	488.3	1365.8	2418.6	905.1	2453.1	911.9	2610.4	1096.9	2644.9	1103.8
67.0	375.4	328.5	498.1	844.0	1962.8	396.5	2001.2	401.2	2154.6	588.3	2193.0	593.0	1433.5	2552.3	986.0	2590.7	990.7	2744.1	1177.8	2782.5	1182.5
68.0	387.6	340.3	533.7	915.0	2077.5	480.3	2118.5	482.6	2269.3	672.1	2310.3	674.4	1479.2	2641.7	1044.5	2682.7	1046.8	2833.5	1236.3	2874.5	1238.6
69.0	396.3	348.7	559.0	964.0	2149.1	541.6	2191.7	541.3	2340.9	733.5	2383.6	733.2	1503.8	2688.9	1081.5	2731.5	1081.1	2880.8	1273.3	2923.4	1273.0
70.0	401.6	353.6	574.1	991.5	2178.9	581.0	2224.4	577.8	2370.9	773.0	2416.4	769.7	1508.1	2695.5	1097.6	2741.0	1094.4	2887.5	1289.6	2933.0	1286.3
71.0	403.3	355.0	578.9	997.8	2168.6	598.7	2215.8	592.4	2360.6	790.7	2407.9	784.4	1492.6	2663.4	1093.5	2710.7	1087.2	2855.4	1285.5	2902.7	1279.2
72.0	401.6	353.0	573.4	983.2	2119.2	592.2	2167.2	582.7	2311.3	784.3	2359.3	774.8	1458.1	2594.1	1067.1	2642.1	1057.6	2786.2	1259.1	2834.2	1249.7
73.0	396.3	347.4	557.7	947.8	2032.0	559.8	2079.7	547.2	2224.2	751.9	2271.8	739.3	1404.9	2489.2	1016.9	2536.8	1004.3	2681.3	1209.1	2729.0	1196.5
74.0	387.6	338.4	531.7	891.7	1908.1	504.3	1954.3	488.7	2100.3	696.5	2146.4	680.9	1333.9	2350.3	946.4	2396.4	930.8	2542.4	1138.6	2588.6	1123.0
75.0	375.4	325.9	495.5	814.9	1773.8	425.4	1817.2	407.0	1966.0	617.6	2009.4	599.2	1245.4	2204.4	855.9	2247.8	837.6	2396.6	1048.1	2440.0	1029.8
76.0	359.8	309.9	449.1	717.1	1602.1	322.4	1641.3	301.9	1794.4	514.7	1833.5	494.1	1140.4	2025.5	745.8	2064.7	725.3	2217.7	938.0	2256.9	917.5
77.0	340.6	290.4	392.3	598.0	1390.5	194.8	1424.0	172.7	1582.8	387.1	1616.3	365.0	1019.6	1812.1	616.3	1845.6	594.3	2004.4	808.7	2037.9	786.6
78.0	318.0	267.5	325.3	457.3	1139.5	41.3	1165.5	18.7	1332.0	233.7	1358.0	211.1	883.9	1566.1	467.9	1592.2	445.3	1758.6	660.4	1784.6	637.8
79.0	291.9	241.0	248.1	294.3	849.3	-139.5	866.0	-161.5	1042.0	53.3	1058.8	31.3	734.6	1289.6	300.8	1306.3	278.8	1482.4	493.6	1499.1	471.6
80.0	262.3	211.1	160.6	108.3	519.7	-349.4	525.0	-369.4	713.1	-156.1	718.4	-176.1	573.0	984.5	115.4	989.8	95.3	1177.8	308.7	1183.1	288.7
81.0	229.2	177.7	62.8	-101.8	150.0	-590.9	141.6	-615.9	344.4	-396.6	336.0	-421.5	398.5	650.4	-90.6	642.0	-115.5	844.7	103.8	836.3	78.8
82.0	192.6	140.7	-45.3	-373.3	-288.4	-918.6	-297.6	-957.1	-91.8	-722.0	-101.0	-760.5	160.9	245.8	-384.4	236.6	-422.9	442.4	-187.8	433.2	-226.3
83.0	152.6	100.4	-163.5	-648.2	-552.6	-1398.3	-553.2	-1449.0	-353.4	-1199.2	-354.0	-1249.9	-61.5	34.1	-811.6	33.6	-862.3	233.3	-612.5	232.7	-663.2
84.0	109.0	630.7	282.1	-378.8	-274.4	-1376.1	-264.5	-1449.9	-72.6	-1174.2	-62.7	-1248.1	260.6	365.0	-736.7	374.9	-810.6	566.8	-534.9	576.7	-608.7
85.0	60.7	582.0	141.7	-716.2	-604.9	-1984.4	-582.7	-2085.3	-400.5	-1780.1	-378.3	-1881.0	-29.6	81.7	-1297.9	103.9	-1398.8	286.0	-1093.5	308.2	-1194.4
86.0	0.0	520.9	-17.7	-1094.2	-978.0	-2659.4	-941.7	-2790.6	-771.5	-2452.9	-735.2	-2584.1	-369.5	-253.2	-1934.7	-217.0	-2065.8	-46.7	-1728.2	-10.5	-1859.3
87.0	60.7	582.0	142.1	-706.1	-591.8	-1957.0	-561.5	-2061.2	-385.5	-1750.7	-355.1	-1854.8	55.1	169.4	-1195.8	199.7	-1300.0	375.7	-989.5	406.0	-1093.6
88.0	109.0	56.5	-291.8	-934.2	-823.1	-1897.6	-797.5	-1977.9	-617.5	-1692.0	-591.9	-1772.2	-151.2	-40.1	-1114.7	-14.5	-1194.9	165.5	-909.0	191.1	-989.3
89.0	152.6	100.3	-163.2	-622.0	-515.1	-1358.7	-493.3	-1417.8	-310.5	-1154.1	-288.7	-1213.2	164.5	271.4	-572.2	293.2	-631.3	475.9	-367.7	497.8	-426.8
90.0	192.6	140.6	-44.8	-341.5	-176.3	-1016.8	-157.4	-1057.4	27.0	-813.5	45.9	-854.1	436.3	601.5	-239.0	620.4	-279.6	804.8	-35.7	823.7	-76.3
91.0	229.2	177.5	63.4	-91.5	248.5	-709.3	264.9	-733.8	450.5	-507.3	466.9	-531.9	669.1	1009.1	51.3	1025.5	26.8	1211.1	253.3	1227.5	228.7
92.0	262.3	210.9	161.2	129.2	630.3	-434.5	644.6	-445.2	830.9	-234.0	845.2	-244.6	866.9	1367.9	303.1	1382.2	292.4	1568.5	503.7	1582.8	493.0
93.0	291.9	240.8	248.9	322.1	959.2	-207.0	972.9	-205.8	1158.5	-7.8	1172.2	-6.5	1033.1	1670.2	503.9	1683.9	505.2	1869.5	703.2	1883.2	704.5
94.0	318.0	267.2	326.2	488.4	1238.3	-13.8	1260.4	-3.2	1436.2	184.1	1458.3	194.7	1170.5	1920.4	668.3	1942.5	678.9	2118.4	866.3	2140.5	876.9
95.0	340.6	290.1	393.4	629.4	1469.9	148.8	1498.8	157.6	1666.6	345.6	1695.5	354.3	1281.6	2122.1	801.0	2151.0	809.7	2318.8	997.8	2347.7	1006.5
96.0	359.8	309.6	450.2	746.0	1656.5	281.8	1690.7	288.5	1852.0	477.3	1886.2	484.1	1367.9	2278.3	903.7	2312.5	910.4	2473.9	1099.2	2508.1	1105.9
97.0	375.4	325.6	496.8	839.3	1799.9	391.0	1837.9	395.5	1994.3	585.4	2032.3	589.9	1431.1	2391.6	982.7	2429.7	987.2	2586.0	1177.1	2624.1	1181.6
98.0	387.6	338.0	533.1	910.0	1902.1	477.1	1942.6	479.2	2095.4	670.4	2135.9	672.5	1472.1	2464.2	1039.2	2504.7	1041.3	2657.5	1232.5	2698.0	1234.6
99.0	396.3	347.1	559.2	958.6	1964.6	540.8	2006.8	540.2	2156.8	733.0	2199.0	732.4	1492.0	2498.0	1074.2	2540.1	1073.6	2690.2	1266.4	2732.4	1265.8
100.0	401.6	352.6	575.1	985.8	1988.7	582.5	2033.6	579.1	2179.9	773.6	2224.7	770.2	1491.5	2494.5	1088.2	2539.3	1084.8	2685.6	1279.3	2730.4	1275.9
101.0	403.3	354.6	580.6	991.7	1975.8	602.5	2022.3	596.1	2165.8	792.5	2212.3	786.1	1471.2	2455.3	1082.0	2501.8	1075.6	2645.3	1272.0	2691.8	1265.6
102.0	401.6	353.2	576.0	976.8	1926.8	596.0	1973.9	586.5	2115.7	784.8	2162.7	775.4	1431.8	2381.8	1051.0	2428.9	1041.5	2570.7	1239.8	2617.7	1230.4
103.0	396.3	348.3	561.0	941.1	1842.9	565.2	1889.4	552.8	2030.5	752.9	2077.0	740.5	1373.8	2275.5	997.9	2322.0	985.4	2463.2	1185.5	2509.7	1173.1
104.0	387.6	339.8	535.8	884.7	1724.9	511.4	1769.7	496.2	1911.3	697.8	1956.1	682.6	1297.7	2137.9	924.4	2182.7	909.2	2324.4	1110.8	2369.1	1095.6
105.0	375.4	328.0	500.4	807.5	1573.9	434.2	1615.6	416.5	1759.0	619.3	1800.7	601.7	1204.3	1970.7	831.0	2012.4	813.3	2155.8	1016.1	2197.5	998.4
106.0	359.8	312.6	454.7	709.3	1390.5	333.1	1427.7	313.5	1574.4	517.0	1611.6	497.4	1094.2	1775.4	718.1	1812.7	698.5	1959.3	901.9	1996.5	882.3
107.0	340.6	293.7	398.7	589.8	1175.6	207.4	1206.8	186.7	1358.2	390.0	1389.4	369.3	968.4	1554.2	586.0	1585.4	565.2	1736.8	768.6	1768.0	747.8
108.0	318.0	271.4	332.5	448.7	929.8	53.0	953.2	32.1	1111.1	234.4	1134.6	213.4	827.8	1308.9	432.1	1332.3	411.2	1490.2	613.5	1513.7	592.5
109.0	291.9	245.6	256.0	285.3	653.2	-129.0	667.0	-149.0	833.5	51.3	847.3	31.4	673.8	1041.7	259.5	1055.5	239.6	1222.1	439.8	1235.8	419.9
110.0	262.3	216.3	169.3	98.8	345.7	-340.0	347.8	-357.7	525.4	-160.3	527.4	-178.0	507.9	754.8	69.1	756.9	51.4	934.5	248.8	936.5	231.1
111.0	229.2	183.5	72.3	-112.3	13.8	-583.2	1.7	-609.1	193.2	-403.8	181.2	-429.7	328.8	454.9	-142.1	442.9	-168.0	634.3	37.3	622.3	11.4
112.0	192.6	147.2	-34.9	-351.8	-244.2	-868.4	-251.8	-905.0	-64.3	-688.4	-71.9	-725.1	135.8	243.4	-380.7	235.8	-417.3	423.4	-200.8	415.8	-237.4
113.0	152.6	107.5	-152.4	-626.1	-504.4	-1297.8	-503.2	-1347.6	-323.6	-1117.0	-322.3	-1166.8	-89.4	32.3	-761.1	33.5	-810.9	213.1	-580.3	214.4	-630.1
114.0	109.0	638.4	293.9	-356.0	-222.7	-1241.3	-210.8	-1314.9	-41.0	-1059.5	-29.0	-1133.1	229.2	362.5	-656.1	374.4	-729.7	544.3	-474.3	556.2	-547.9
115.0	60.7	590.4	154.6	-692.2	-549.7	-1811.9	-525.2	-1912.5	-367.4	-1629.6	-342.9	-1730.2	-65.2	77.3	-1184.9	101.8	-1285.5	259.6	-1002.6	284.1	-1103.2
116.0	0.0	529.8	-4.0	-1069.4	-920.2	-2446.5	-881.3	-2577.3	-737.9	-2264.2	-699.0	-2395.0	-410.0	-260.8	-1787.2	-222.0	-1918.0	-78.5	-1604.9	-39.7	-1735.7
117.0	60.7	589.7	153.7	-685.0	-538.3	-1764.1	-505.9	-1867.9	-352.1	-1577.9	-319.7	-1681.7	21.7	168.5	-1057.3	200.9	-1161.1	354.7	-871.1	387.1	-974.9
118.0	109.0	63.1	-282.1	-916.6	-774.1	-1724.1	-746.8	-1803.9	-584.7	-1534.7	-557.5	-1614.5	-177.8	-35.2	-985.2	-8.0	-1065.0	154.2	-795.8	181.4	-875.7

Combinacion de Esfuerzos Flectores - ELU

Nota: Todos los Esfuerzos estan expresados en [T·m]

Posición	ELU - 1	ELU - 2	ELU - 3	ELU - 4	ELU - 5	ELU - 6	ELU - 7	ELU - 8	ELU - 9	ELU - 10	ELU - 11	ELU - 12	ELU - 13	ELU - 14	ELU - 15	ELU - 16	ELU - 17	ELU - 18	ELU - 19	ELU - 20	ELU - 21
119.0	152.6	105.7	-155.4	-607.7	-470.6	-1188.1	-447.6	-1246.8	-278.7	-996.2	-255.6	-1054.8	144.2	281.3	-436.1	304.4	-494.8	473.3	-244.2	496.3	-302.8
120.0	192.6	144.9	-38.9	-330.5	-138.4	-876.0	-118.8	-916.1	55.8	-681.8	75.4	-721.9	422.0	614.0	-123.5	633.6	-163.7	808.2	70.7	827.8	30.5
121.0	229.2	180.5	67.4	-83.7	271.1	-596.2	287.9	-620.3	467.4	-400.0	484.1	-424.1	660.2	1015.0	147.6	1031.8	123.6	1211.2	343.9	1228.0	319.8
122.0	262.3	212.7	163.4	134.0	641.6	-347.9	655.9	-358.0	839.7	-149.8	854.0	-159.9	863.2	1370.8	381.3	1385.1	371.2	1568.8	579.3	1583.1	569.2
123.0	291.9	241.4	249.1	323.9	959.7	-129.7	973.7	-127.8	1159.5	70.1	1173.5	72.0	1034.3	1670.2	580.7	1684.1	582.6	1869.9	780.5	1883.9	782.4
124.0	318.0	266.7	324.6	487.2	1228.3	59.6	1250.3	69.5	1429.7	261.0	1451.7	270.9	1176.4	1917.5	748.8	1939.5	758.7	2118.9	950.2	2140.9	960.1
125.0	340.6	288.4	389.9	625.3	1449.7	221.2	1478.3	228.9	1652.7	424.2	1681.3	431.9	1291.9	2116.3	887.8	2144.9	895.5	2319.3	1090.8	2347.9	1098.5
126.0	359.8	306.7	444.8	739.1	1626.2	356.2	1659.8	361.6	1830.8	560.8	1864.4	566.2	1382.6	2269.8	999.8	2303.4	1005.2	2474.4	1204.4	2508.0	1209.8
127.0	375.4	321.5	489.6	829.6	1759.9	465.7	1797.1	468.6	1966.1	671.9	2003.2	674.8	1450.1	2380.5	1086.2	2417.6	1089.1	2586.6	1292.4	2623.8	1295.3
128.0	387.6	332.8	524.0	897.5	1852.5	550.5	1891.8	550.7	2060.1	758.2	2099.5	758.3	1495.5	2450.5	1148.5	2489.9	1148.7	2658.2	1356.2	2697.5	1356.4
129.0	396.3	340.6	548.2	943.4	1905.4	611.3	1948.3	608.6	2114.5	820.5	2157.4	817.7	1519.9	2481.8	1187.8	2524.8	1185.0	2690.9	1396.9	2733.9	1394.2
130.0	401.6	344.9	562.2	967.9	1920.0	648.7	1965.7	642.9	2130.6	859.3	2176.3	853.4	1524.0	2476.1	1204.8	2521.8	1199.0	2686.7	1415.4	2732.3	1409.5
131.0	403.3	345.7	565.9	971.3	1897.6	663.2	1944.9	654.1	2109.5	875.2	2156.8	866.0	1508.6	2434.8	1200.5	2482.2	1191.4	2646.8	1412.4	2694.1	1403.3
132.0	401.6	343.1	559.3	953.9	1839.1	655.0	1887.0	642.6	2052.4	868.3	2100.3	855.8	1474.3	2359.5	1175.4	2407.4	1163.0	2572.8	1388.7	2620.7	1376.2
133.0	396.3	337.0	542.5	915.8	1745.7	624.4	1793.0	608.7	1960.2	838.9	2007.5	823.1	1421.7	2251.6	1130.3	2298.9	1114.6	2466.1	1344.8	2513.4	1329.1
134.0	387.6	327.4	515.4	857.1	1618.1	571.2	1663.7	552.4	1833.8	786.9	1879.4	768.1	1351.6	2112.6	1065.7	2158.2	1046.9	2328.3	1281.4	2373.9	1262.6
135.0	375.4	314.3	478.1	777.7	1457.4	495.4	1499.9	473.9	1674.2	712.2	1716.7	690.7	1264.6	1944.2	982.2	1986.7	960.7	2161.0	1199.0	2203.5	1177.5
136.0	359.8	297.8	430.5	677.5	1264.3	396.6	1302.2	372.8	1482.2	614.4	1520.1	590.7	1161.4	1748.1	880.4	1786.1	856.6	1966.0	1098.3	2004.0	1074.5
137.0	340.6	277.7	372.7	556.2	1039.9	274.0	1071.7	248.8	1259.0	493.1	1290.7	467.8	1042.9	1526.6	760.7	1558.4	735.5	1745.7	979.8	1777.5	954.6
138.0	318.0	254.2	304.6	413.3	784.7	126.9	808.5	101.2	1005.0	347.2	1028.9	321.5	910.1	1281.4	623.7	1305.3	597.9	1501.8	844.0	1525.6	818.3
139.0	291.9	227.2	226.2	248.3	498.4	-46.1	512.4	-71.2	720.3	175.7	734.2	150.7	764.4	1014.5	470.0	1028.5	444.9	1236.4	691.9	1250.4	666.8
140.0	262.3	196.7	137.6	60.2	202.5	-246.9	204.4	-270.0	426.4	-23.0	428.3	-46.1	606.5	748.7	299.4	750.6	276.2	972.7	523.3	974.6	500.1
141.0	229.2	162.6	38.7	-166.6	-133.3	-541.8	-147.7	-575.5	93.8	-314.7	79.4	-348.4	413.5	446.8	38.3	432.4	4.6	673.9	265.4	659.5	231.7
142.0	192.6	125.5	-70.1	-354.9	-319.8	-828.9	-336.0	-870.1	-90.5	-599.7	-106.8	-640.8	298.6	333.8	-175.3	317.6	-216.5	563.1	53.9	546.8	12.8
143.0	152.6	84.6	-189.5	-619.7	-581.0	-1271.5	-590.6	-1325.5	-347.5	-1037.9	-357.1	-1092.0	92.4	131.1	-559.3	121.6	-613.3	364.7	-325.8	355.1	-379.8
144.0	109.0	614.2	254.9	-339.9	-298.8	-1188.7	-299.9	-1256.9	-60.6	-950.5	-61.7	-1018.7	433.6	474.7	-415.2	473.6	-483.4	712.9	-177.0	711.8	-245.2
145.0	60.7	565.0	113.9	-665.5	-623.2	-1732.1	-614.1	-1824.9	-380.1	-1489.0	-371.0	-1581.8	165.5	207.9	-901.1	216.9	-993.9	451.0	-658.0	460.0	-750.8
146.0	0.0	503.3	-46.6	-1031.6	-989.1	-2338.9	-968.3	-2460.5	-741.3	-2091.1	-720.5	-2212.6	-149.2	-106.7	-1456.5	-85.9	-1578.0	141.2	-1208.6	162.0	-1330.2
147.0	50.9	557.1	110.6	-658.1	-614.8	-1671.9	-597.1	-1767.8	-377.8	-1434.9	-360.2	-1530.9	216.9	260.2	-796.9	277.9	-892.9	497.1	-560.0	514.8	-655.9
148.0	89.4	24.4	-328.3	-902.5	-859.2	-1649.0	-843.6	-1722.3	-633.3	-1423.1	-617.7	-1496.4	-43.8	-0.6	-790.3	15.1	-863.6	225.3	-564.4	241.0	-637.7
149.0	123.1	61.0	-203.2	-604.6	-471.1	-1278.1	-456.7	-1331.4	-256.2	-1063.1	-241.8	-1116.5	220.4	353.9	-453.1	368.2	-506.5	568.8	-238.2	583.1	-291.6
150.0	153.3	94.1	-88.4	-337.9	-56.1	-963.7	-42.4	-999.8	148.1	-759.5	161.8	-795.6	443.6	725.5	-182.1	739.2	-218.2	929.7	22.1	943.4	-14.0
151.0	180.0	123.7	16.1	-101.5	323.6	-679.8	337.0	-700.9	517.5	-485.9	530.9	-507.1	630.1	1055.2	51.8	1068.6	30.7	1249.1	245.7	1262.5	224.5
152.0	203.2	149.8	110.4	106.0	648.9	-425.5	662.3	-433.8	832.8	-241.5	846.3	-249.8	783.4	1326.3	251.9	1339.7	243.6	1510.3	435.9	1523.7	427.6
153.0	223.0	172.4	194.4	285.7	922.1	-199.7	938.2	-197.0	1096.7	-25.1	1112.9	-22.4	906.5	1543.0	421.2	1559.1	423.8	1717.6	595.8	1733.8	598.5
154.0	239.3	191.5	268.2	438.7	1145.5	-1.1	1171.0	10.8	1311.4	164.7	1336.9	176.7	1001.9	1708.7	562.1	1734.2	574.0	1874.6	727.9	1900.1	739.8
155.0	252.1	207.2	331.7	566.3	1321.2	171.3	1354.4	184.8	1478.9	329.0	1512.1	342.5	1071.6	1826.6	676.7	1859.8	690.2	1984.3	834.4	2017.5	847.9
156.0	261.4	219.4	384.9	669.2	1450.9	318.7	1490.4	332.0	1601.2	469.0	1640.6	482.2	1117.4	1899.1	766.9	1938.6	780.2	2049.4	917.2	2088.8	930.4
157.0	267.2	228.1	427.9	748.6	1536.8	442.1	1581.0	454.9	1680.2	585.5	1724.4	598.3	1140.8	1929.0	834.3	1973.2	847.1	2072.5	977.8	2116.7	990.6
158.0	269.6	233.3	460.7	805.0	1580.7	542.3	1628.3	554.3	1717.9	679.5	1765.6	691.6	1143.0	1918.7	880.3	1966.3	892.4	2055.9	1017.5	2103.6	1029.6
159.0	268.4	235.1	483.2	839.5	1584.7	619.9	1634.5	631.1	1716.4	751.6	1766.2	762.8	1125.5	1870.8	906.0	1920.6	917.1	2002.4	1037.7	2052.3	1048.8
160.0	263.8	233.3	495.4	852.7	1551.4	675.7	1602.2	685.6	1678.0	802.3	1728.9	812.3	1089.6	1788.3	912.6	1839.1	922.5	1914.9	1039.2	1965.8	1049.2
161.0	255.7	228.1	497.4	845.7	1484.1	710.0	1534.8	718.6	1606.0	831.9	1656.7	840.5	1036.8	1675.2	901.1	1725.9	909.7	1797.1	1023.0	1847.8	1031.6
162.0	244.2	219.4	489.1	819.6	1387.0	723.3	1436.6	730.4	1504.1	840.5	1553.7	847.6	968.9	1536.3	872.6	1585.9	879.7	1653.5	989.8	1703.0	996.9
163.0	229.1	207.2	470.6	775.9	1265.6	715.9	1313.1	721.4	1377.6	827.9	1425.1	833.4	888.2	1377.9	828.2	1425.4	833.7	1489.9	940.2	1537.4	945.7
164.0	210.5	191.5	441.8	716.4	1127.5	687.8	1172.0	691.9	1233.2	793.5	1277.7	797.5	797.3	1208.5	768.8	1253.0	772.8	1314.2	874.5	1358.7	878.5
165.0	188.5	172.3	402.7	643.6	982.6	639.4	1023.3	642.0	1079.8	736.5	1120.5	739.2	699.7	1038.8	695.5	1079.5	698.2	1136.0	792.7	1176.6	795.3
166.0	163.0	150.4	354.1	551.9	834.3	550.1	869.0	551.3	916.2	632.0	950.8	633.2	573.6	856.0	571.8	890.7	573.0	937.9	653.7	972.5	654.9
166.5	149.0	137.5	325.3	511.6	782.0	509.9	814.7	511.0	856.6	584.5	889.3	585.6	534.6	805.0	532.9	837.7	534.0	879.6	607.5	912.3	608.6
167.5	118.2	109.6	260.6	412.3	640.5	411.0	667.3	411.9	696.3	466.8	723.2	467.7	425.9	654.1	424.6	681.0	425.5	709.9	480.4	736.8	481.3
168.5	84.0	78.3	185.7	295.6	465.0	294.8	484.7	295.4	502.1	331.9	521.8	332.4	302.9	472.3	302.1	492.0	302.6	509.4	339.1	529.0	339.7
169.5	46.3	43.4	102.0	163.1	257.0	162.7	268.2	163.0	275.3	181.0	286.5	181.3	165.3	259.2	164.9	270.4	165.2	277.5	183.2	288.7	183.5
170.5	0.0	0.0	1.4	6.7	11.1	4.9	12.6	5.0	10.6	4.5	12.1	4.5	8.7	13.1	7.0	14.6	7.0	12.6	6.5	14.1	6.5

ESFUERZOS MÁXIMOS DE FLEXIÓN - ELU



Combinacion de Esfuerzos Cortantes - ELU

Nota: Todos los Esfuerzos estan expresados en [T]

Posición	ELU - 1	ELU - 2	ELU - 3	ELU - 4	ELU - 5	ELU - 6	ELU - 7	ELU - 8	ELU - 9	ELU - 10	ELU - 11	ELU - 12	ELU - 13	ELU - 14	ELU - 15	ELU - 16	ELU - 17	ELU - 18	ELU - 19	ELU - 20	ELU - 21
0.0	0.0	-2.7	60.8	197.5	540.5	131.0	553.4	131.5	544.7	135.2	557.6	135.6	274.1	617.1	207.7	630.0	208.1	621.3	211.9	634.2	212.3
1.0	41.2	38.5	95.2	206.4	479.3	152.5	490.3	152.7	487.7	160.9	498.7	161.1	245.6	518.5	191.7	529.5	191.9	526.8	200.1	537.8	200.2
2.0	37.7	35.0	84.9	174.5	390.6	129.4	399.9	129.2	401.5	140.3	410.9	140.2	206.9	422.9	161.7	432.3	161.6	433.9	172.7	443.3	172.6
3.0	34.2	31.5	74.6	145.8	315.0	106.3	323.0	105.9	327.5	118.8	335.4	118.3	172.6	341.8	133.1	349.8	132.7	354.3	145.6	362.2	145.1
4.0	30.7	28.0	64.4	119.4	249.6	83.6	256.3	82.8	262.7	96.7	269.4	95.9	141.7	271.9	105.9	278.6	105.1	285.0	119.0	291.7	118.2
5.0	27.2	24.5	54.1	94.9	191.8	61.3	197.3	60.2	205.0	74.6	210.5	73.4	113.6	210.5	80.0	216.0	78.9	223.7	93.2	229.2	92.1
6.0	23.8	21.1	43.9	71.8	144.2	39.4	148.5	37.9	157.2	52.4	161.6	50.9	87.8	160.1	55.3	164.5	53.8	173.1	68.4	177.5	66.8
7.0	20.3	17.6	33.6	49.8	107.8	17.8	111.1	16.0	120.4	30.4	123.7	28.6	63.7	121.7	31.8	125.0	29.9	134.3	44.4	137.6	42.5
8.0	16.8	14.1	23.4	28.5	75.9	-3.4	78.2	-5.5	88.0	8.7	90.2	6.6	41.2	88.5	9.2	90.8	7.1	100.6	21.3	102.8	19.2
9.0	13.3	10.6	13.1	7.8	56.2	-24.3	57.4	-26.7	67.7	-12.9	68.9	-15.2	19.7	68.1	-12.4	69.4	-14.8	79.6	-1.0	80.8	-3.3
10.0	9.8	7.1	2.9	-12.6	36.9	-58.1	37.1	-60.6	47.8	-47.3	48.0	-49.7	-0.7	48.8	-46.3	49.0	-48.8	59.7	-35.4	59.9	-37.9
11.0	6.3	3.6	-7.4	-32.8	20.3	-93.8	19.5	-97.2	30.6	-83.5	29.8	-86.9	-20.3	32.8	-81.4	31.9	-84.8	43.0	-71.1	42.2	-74.5
12.0	2.9	0.2	-17.7	-52.9	-18.0	-130.0	-19.9	-134.4	-8.3	-120.3	-10.2	-124.7	-39.2	-4.2	-116.3	-6.2	-120.7	5.5	-106.6	3.5	-111.0
13.0	-0.6	-3.3	-27.9	-73.1	-57.0	-165.5	-59.2	-170.9	-47.8	-156.4	-50.0	-161.7	-57.3	-41.2	-149.7	-43.4	-155.1	-32.1	-140.6	-34.2	-145.9
14.0	-4.1	-6.8	-38.2	-93.4	-85.5	-200.6	-87.3	-206.8	-76.9	-191.9	-78.6	-198.1	-74.6	-66.7	-181.8	-68.5	-188.0	-58.1	-173.1	-59.8	-179.3
15.0	-7.6	-10.3	-48.4	-114.1	-105.6	-235.4	-106.7	-242.4	-97.3	-227.2	-98.4	-234.2	-91.2	-82.6	-212.5	-83.7	-219.5	-74.4	-204.2	-75.5	-211.3
16.0	-11.1	-13.8	-58.7	-135.2	-125.9	-271.4	-126.1	-279.1	-118.0	-263.5	-118.2	-271.2	-106.8	-97.5	-243.0	-97.7	-250.7	-89.6	-235.1	-89.8	-242.8
17.0	-14.5	-17.2	-68.9	-156.9	-146.6	-312.8	-145.7	-322.0	-139.0	-305.2	-138.1	-314.4	-121.5	-111.2	-277.3	-110.3	-286.6	-103.6	-269.7	-102.7	-279.0
18.0	-18.0	-20.7	-79.2	-179.4	-167.9	-355.0	-165.7	-366.2	-160.4	-347.5	-158.2	-358.7	-135.1	-123.6	-310.7	-121.5	-321.9	-116.2	-303.2	-114.0	-314.4
19.0	-21.5	-24.2	-89.5	-202.8	-189.9	-386.4	-186.2	-399.7	-182.4	-378.9	-178.7	-392.2	-148.9	-135.9	-332.5	-132.3	-345.8	-128.4	-325.0	-124.8	-338.3
20.0	-25.0	-27.7	-99.7	-227.9	-213.1	-421.4	-207.9	-437.1	-205.4	-413.7	-200.2	-429.4	-165.3	-150.5	-358.8	-145.3	-374.5	-142.8	-351.1	-137.6	-366.8
21.0	-28.5	-31.2	-110.0	-253.0	-236.2	-464.8	-229.3	-482.8	-228.4	-456.9	-221.5	-474.9	-182.4	-165.6	-394.2	-158.7	-412.2	-157.8	-386.3	-150.9	-404.3
21.5	-30.2	-32.9	-115.1	-272.8	-253.8	-504.3	-245.2	-524.5	-245.8	-496.3	-237.2	-516.5	-200.4	-181.5	-432.0	-172.9	-452.2	-173.5	-424.0	-164.9	-444.2
22.5	-33.7	-36.4	-125.3	-302.0	-280.7	-555.9	-270.4	-579.0	-272.8	-548.0	-262.5	-571.1	-229.9	-208.6	-483.7	-198.2	-506.9	-200.7	-475.8	-190.3	-499.0
23.5	-37.2	-39.9	-135.6	-332.3	-308.6	-610.1	-296.6	-636.3	-301.1	-602.6	-289.1	-628.8	-263.2	-239.5	-541.0	-227.5	-567.2	-232.0	-533.5	-220.0	-559.7
24.5	-45.8	-48.5	-151.0	-368.8	-342.8	-673.2	-329.2	-702.4	-335.9	-666.3	-322.3	-695.5	-312.3	-286.3	-616.6	-272.6	-645.9	-279.4	-609.7	-265.7	-639.0
25.5	68.5	69.3	174.1	407.8	775.4	361.9	802.6	356.0	773.7	360.2	800.9	354.3	432.7	800.3	386.8	827.5	380.9	798.6	385.1	825.8	379.2
26.5	54.8	55.6	153.6	365.3	700.6	321.4	725.0	316.7	698.3	319.1	722.7	314.4	377.1	712.4	333.2	736.8	328.5	710.1	330.9	734.5	326.1
27.5	46.1	47.0	138.2	328.2	630.4	286.1	652.2	282.3	627.7	283.4	649.5	279.6	321.7	623.9	279.5	645.6	275.8	621.2	276.8	642.9	273.0
28.5	42.7	43.5	128.0	296.9	566.2	256.6	585.5	253.5	563.3	253.6	582.6	250.6	279.0	548.3	238.6	567.6	235.6	545.4	235.7	564.7	232.7
29.5	39.2	40.0	117.7	266.6	504.0	228.0	520.9	225.5	501.0	225.0	517.9	222.5	240.4	477.8	201.8	494.7	199.3	474.8	198.8	491.7	196.3
30.5	35.7	36.5	107.5	237.5	444.2	200.5	459.0	198.3	441.2	197.5	456.0	195.4	205.8	412.4	168.8	427.3	166.6	409.5	165.8	424.3	163.6
31.5	32.2	33.0	97.2	209.7	387.1	174.2	400.0	172.2	384.2	171.2	397.1	169.3	174.4	351.8	138.9	364.8	136.9	348.9	136.0	361.8	134.0
32.5	28.7	29.6	86.9	183.2	332.7	148.9	344.0	147.0	329.9	146.0	341.1	144.1	145.8	295.4	111.5	306.6	109.6	292.5	108.7	303.8	106.8
33.5	25.2	26.1	76.7	157.8	282.3	124.6	292.0	122.7	279.5	121.9	289.3	119.9	119.4	243.9	86.2	253.6	84.2	241.1	83.4	250.8	81.5
34.5	21.8	22.6	66.4	133.4	241.5	101.2	249.8	99.1	238.8	98.6	247.2	96.5	94.7	202.7	62.5	211.1	60.4	200.1	59.8	208.4	57.7
35.5	18.3	19.1	56.2	109.9	202.5	78.6	209.5	76.3	199.9	76.1	207.0	73.8	71.4	163.9	40.1	171.0	37.8	161.4	37.5	168.4	35.2
36.5	14.8	15.6	45.9	87.2	164.9	56.6	170.8	54.1	162.5	54.2	168.4	51.7	49.3	127.0	18.7	132.9	16.2	124.5	16.2	130.4	13.7
37.5	11.3	12.1	35.7	65.1	135.6	35.1	140.4	32.3	133.1	32.7	138.0	29.9	28.0	98.5	-2.0	103.3	-4.7	96.1	-4.4	100.9	-7.1
38.5	7.8	8.7	25.4	43.4	113.4	13.1	117.1	10.1	111.0	10.7	114.8	7.8	7.6	77.5	-22.8	81.3	-25.7	75.2	-25.1	78.9	-28.1
39.5	4.4	5.2	15.1	22.1	58.8	-31.1	61.4	-34.2	56.5	-33.4	59.1	-36.5	-12.3	24.4	-65.5	27.0	-68.6	22.0	-67.8	24.7	-70.9
40.5	0.9	1.7	4.9	1.1	39.6	-74.2	41.2	-77.4	37.3	-76.5	38.9	-79.7	-31.5	7.0	-106.8	8.6	-110.0	4.7	-109.1	6.3	-112.3
41.5	-2.6	-1.8	-5.4	-19.8	23.0	-116.5	23.5	-119.7	20.8	-118.7	21.2	-121.9	-50.1	-7.4	-146.8	-6.9	-150.0	-9.6	-149.1	-9.1	-152.3
42.5	-6.1	-5.3	-15.6	-40.6	-7.6	-157.9	-8.3	-161.7	-9.8	-160.1	-10.5	-163.9	-68.2	-35.1	-185.4	-35.8	-189.2	-37.3	-187.6	-38.0	-191.4
43.5	-9.6	-8.8	-25.9	-61.6	-29.8	-198.6	-31.8	-203.4	-32.0	-200.8	-33.9	-205.5	-85.6	-53.9	-222.7	-55.8	-227.4	-56.0	-224.8	-58.0	-229.5
44.5	-13.1	-12.2	-36.1	-82.6	-52.4	-238.8	-54.7	-244.5	-54.4	-240.9	-56.7	-246.5	-102.2	-72.0	-258.4	-74.2	-264.1	-74.0	-260.5	-76.3	-266.1
45.5	-16.5	-15.7	-46.4	-104.0	-75.4	-278.7	-76.9	-285.2	-77.3	-280.6	-78.9	-287.1	-118.0	-89.4	-292.7	-91.0	-299.2	-91.3	-294.6	-92.9	-301.1
46.5	-20.0	-19.2	-56.6	-125.8	-98.9	-318.5	-99.6	-325.8	-100.6	-320.2	-101.3	-327.5	-132.9	-106.0	-325.6	-106.7	-332.9	-107.7	-327.3	-108.4	-334.6
47.5	-23.5	-22.7	-66.9	-148.2	-123.1	-358.7	-122.7	-367.2	-124.6	-360.2	-124.1	-368.7	-146.7	-121.7	-357.3	-121.2	-365.8	-123.2	-358.7	-122.7	-367.3
48.5	-27.0	-26.2	-77.2	-171.3	-148.2	-400.0	-146.4	-410.6	-149.3	-401.1	-147.5	-411.7	-159.5	-136.4	-388.2	-134.6	-398.8	-137.5	-389.3	-135.6	-399.9
49.5	-30.5	-29.6	-87.4	-195.3	-174.2	-443.3	-170.8	-456.1	-174.7	-443.8	-171.4	-456.7	-172.2	-151.0	-420.1	-147.7	-432.9	-151.5	-420.6	-148.2	-433.5
50.5	-34.0	-33.1	-97.7	-221.0	-201.9	-490.2	-196.9	-505.6	-201.8	-490.1	-196.8	-505.5	-187.5	-168.4	-456.7	-163.4	-472.1	-168.3	-456.6	-163.3	-472.0
51.0	-35.7	-34.9	-102.8	-242.2	-225.3	-534.5	-218.5	-552.5	-224.5	-533.8	-217.8	-551.8	-204.7	-187.8	-497.0	-181.0	-515.0	-187.0	-496.3	-180.2	-514.3
52.0	-39.2	-38.4	-113.1	-267.8	-253.2	-584.9	-244.6	-605.3	-251.9	-583.6	-243.3	-604.0	-221.9	-207.3	-539.0	-198.7	-559.4	-206.0	-537.7	-197.4	-558.1
53.0	-42.7	-41.8	-123.3	-297.9	-285.8	-617.9	-275.2	-641.5	-284.2	-616.3	-273.6	-639.9	-250.8	-238.6	-570.8	-228.1	-594.3	-237.0	-569.2	-226.5	-592.7
54.0	-46.1	-45.3	-133.6	-328.9	-319.3	-653.0	-306.9	-679.7	-317.7	-651.4	-305.3	-678.1	-283.3	-273.7	-607.4	-261.3	-634.1	-272.1	-605.8	-259.7	-632.5
55.0	-54.8	-53.9	-148.9	-366.1	-358.1	-695.9	-344.0	-725.9	-356.8	-694.5	-342.6	-724.5	-331.8	-323.8	-661.6	-309.7	-691.6	-322.4	-660.2	-308.3	-690.2
56.0	-68.5	-68.8	-170.6	63.3	456.3	34.6	484.4	28.3	457.0	35.3	485.0	29.0	377.0	770.0	348.3	798.1	342.0	770.7	349.0	798.7	342.7
57.0	53.9	53.6	148.4	359.8	743.4	336.6	768.4	331.6	743.7	336.9	768.6	331.9	384.3	767.9	361.1	792.9	356.1	768.1	361.4	793.1	356.4
58.0	45.3	44.9	133.0	322.3	695.1	303.9	717.2	299.9	695.0	303.9	717.2	299.9	328.4	701.1	310.0	723.3	306.0	701.1	310.0	723.2	306.0

Combinacion de Esfuerzos Cortantes - ELU

Nota: Todos los Esfuerzos estan expresados en [T]

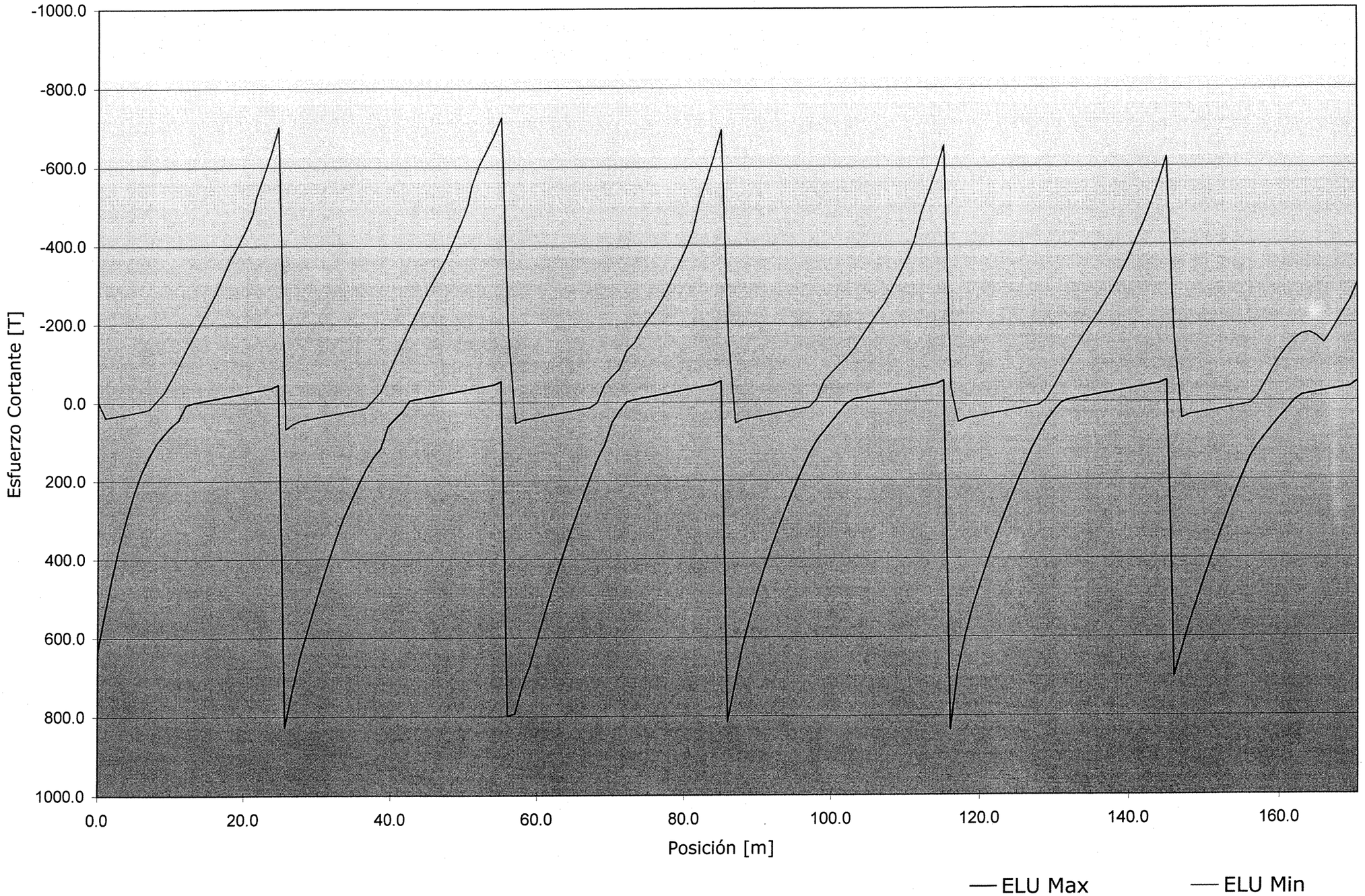
Posición	ELU - 1	ELU - 2	ELU - 3	ELU - 4	ELU - 5	ELU - 6	ELU - 7	ELU - 8	ELU - 9	ELU - 10	ELU - 11	ELU - 12	ELU - 13	ELU - 14	ELU - 15	ELU - 16	ELU - 17	ELU - 18	ELU - 19	ELU - 20	ELU - 21
59.0	41.8	41.5	122.7	290.6	651.8	276.3	671.3	273.1	651.6	276.1	671.1	272.9	285.1	646.3	270.7	665.7	267.5	646.1	270.5	665.5	267.3
60.0	38.3	38.0	112.5	260.1	586.0	249.0	603.0	246.4	585.7	248.7	602.8	246.1	246.0	571.9	234.9	588.9	232.3	571.6	234.6	588.7	232.0
61.0	34.8	34.5	102.2	230.8	522.2	222.4	537.0	220.2	521.9	222.1	536.7	219.9	211.0	502.3	202.6	517.2	200.4	502.1	202.3	516.9	200.1
62.0	31.3	31.0	92.0	202.9	460.8	194.7	473.7	192.8	460.6	194.5	473.4	192.5	179.4	437.3	171.2	450.2	169.3	437.1	171.0	449.9	169.0
63.0	27.9	27.5	81.7	176.2	402.0	167.8	413.1	165.9	401.8	167.6	412.9	165.7	150.6	376.3	142.2	387.4	140.3	376.2	142.0	387.3	140.1
64.0	24.4	24.1	71.5	150.8	345.7	142.2	355.2	140.3	345.6	142.1	355.1	140.1	124.0	318.9	115.4	328.5	113.5	318.8	115.3	328.4	113.4
65.0	20.9	20.6	61.2	126.3	291.7	117.6	299.9	115.6	291.7	117.6	299.8	115.6	99.3	264.7	90.6	272.8	88.5	264.6	90.5	272.7	88.5
66.0	17.4	17.1	51.0	102.8	239.9	93.4	246.7	91.2	239.9	93.4	246.7	91.2	75.9	213.0	66.5	219.9	64.3	213.0	66.5	219.8	64.3
67.0	13.9	13.6	40.7	80.1	190.0	52.7	195.6	50.3	190.0	52.8	195.6	50.4	53.8	163.7	26.4	169.3	24.0	163.7	26.5	169.3	24.0
68.0	10.4	10.1	30.4	57.9	141.7	28.6	146.2	26.0	141.8	28.7	146.3	26.1	32.5	116.3	3.2	120.8	0.6	116.4	3.3	120.9	0.7
69.0	7.0	6.6	20.2	36.3	105.2	-18.5	108.6	-21.3	105.3	-18.4	108.7	-21.2	12.0	80.9	-42.8	84.4	-45.6	81.0	-42.7	84.4	-45.5
70.0	3.5	3.2	9.9	15.0	49.5	-40.6	51.8	-43.6	49.5	-40.5	51.9	-43.5	-7.9	26.6	-63.4	29.0	-66.4	26.7	-63.3	29.1	-66.3
71.0	0.0	-0.3	-0.3	-6.1	20.2	-61.8	21.5	-64.8	20.3	-61.7	21.6	-64.7	-27.1	-0.8	-82.8	0.5	-85.9	-0.8	-82.7	0.5	-85.8
72.0	-3.5	-3.8	-10.6	-27.0	-1.6	-110.5	-1.4	-113.5	-1.5	-110.4	-1.4	-113.4	-45.8	-20.5	-129.3	-20.3	-132.3	-20.4	-129.3	-20.2	-132.3
73.0	-7.0	-7.3	-20.8	-47.8	-23.4	-130.6	-24.4	-134.5	-23.4	-130.6	-24.4	-134.5	-64.0	-39.5	-146.8	-40.6	-150.7	-39.5	-146.7	-40.5	-150.6
74.0	-10.4	-10.8	-31.1	-68.8	-45.3	-167.5	-47.7	-172.4	-45.3	-167.5	-47.6	-172.3	-81.5	-58.1	-180.2	-60.4	-185.1	-58.0	-180.2	-60.4	-185.1
75.0	-13.9	-14.3	-41.3	-89.8	-67.5	-198.0	-69.6	-203.8	-67.5	-198.0	-69.5	-203.7	-98.3	-76.0	-206.4	-78.0	-212.2	-75.9	-206.4	-78.0	-212.2
76.0	-17.4	-17.7	-51.6	-111.2	-90.1	-228.1	-91.5	-234.7	-90.1	-228.0	-91.4	-234.7	-114.3	-93.2	-231.2	-94.5	-237.8	-93.1	-231.1	-94.5	-237.7
77.0	-20.9	-21.2	-61.9	-133.0	-113.3	-261.5	-113.7	-268.9	-113.1	-261.3	-113.5	-268.7	-129.4	-109.6	-257.8	-110.0	-265.2	-109.5	-257.7	-109.9	-265.1
78.0	-24.4	-24.7	-72.1	-155.4	-137.1	-297.8	-136.3	-306.7	-136.8	-297.5	-136.0	-306.4	-143.4	-125.1	-285.9	-124.4	-294.8	-124.8	-285.5	-124.1	-294.4
79.0	-27.9	-28.2	-82.4	-178.5	-161.7	-335.1	-159.6	-346.0	-161.1	-334.5	-159.0	-345.5	-156.6	-139.7	-313.1	-137.6	-324.1	-139.1	-312.5	-137.0	-323.5
80.0	-31.3	-31.7	-92.6	-202.6	-187.2	-374.0	-183.6	-387.3	-186.2	-373.0	-182.6	-386.3	-170.0	-154.5	-341.4	-151.0	-354.6	-153.5	-340.4	-150.0	-353.6
81.0	-34.8	-35.1	-102.9	-228.3	-214.4	-416.5	-209.2	-432.3	-212.9	-415.0	-207.7	-430.8	-186.7	-172.7	-374.9	-167.6	-390.6	-171.2	-373.4	-166.1	-389.1
82.0	-38.3	-38.6	-113.1	-267.4	-256.8	-493.6	-248.1	-513.9	-254.4	-491.2	-245.8	-511.5	-218.6	-208.0	-444.9	-199.4	-465.1	-205.6	-442.5	-197.0	-462.7
83.0	-41.8	-42.1	-123.4	-297.1	-288.4	-545.7	-277.9	-569.0	-285.8	-543.1	-275.4	-566.4	-248.1	-239.4	-496.7	-229.0	-520.0	-236.8	-494.2	-226.4	-517.5
84.0	-45.3	-45.6	-133.7	-327.9	-321.0	-600.4	-308.8	-626.8	-318.5	-597.9	-306.3	-624.4	-281.4	-274.6	-554.0	-262.3	-580.4	-272.1	-551.5	-259.9	-577.9
85.0	-53.9	-54.2	-149.0	-364.8	-359.3	-663.6	-345.4	-693.2	-357.2	-661.6	-343.3	-691.1	-330.5	-325.0	-629.4	-311.1	-659.0	-322.9	-627.3	-309.1	-656.9
86.0	-67.6	-67.3	-168.9	62.7	414.8	35.3	442.4	29.2	414.6	35.1	442.2	29.0	435.8	787.8	408.3	815.5	402.2	787.7	408.2	815.3	402.1
87.0	53.9	54.2	149.2	358.5	674.9	336.6	699.6	331.7	674.3	335.9	698.9	331.0	379.7	696.1	357.8	720.8	352.9	695.5	357.2	720.1	352.3
88.0	45.3	45.6	133.8	321.2	601.2	303.7	623.1	299.8	600.2	302.7	622.0	298.7	323.7	603.8	306.2	625.6	302.3	602.8	305.2	624.6	301.3
89.0	41.8	42.1	123.5	289.6	533.6	275.4	552.8	272.2	532.4	274.1	551.6	271.0	280.4	524.4	266.2	543.6	263.0	523.1	264.9	542.4	261.7
90.0	38.3	38.6	113.3	259.2	467.9	247.6	484.7	245.0	466.5	246.3	483.3	243.7	241.3	450.0	229.7	466.8	227.1	448.7	228.4	465.5	225.8
91.0	34.8	35.1	103.0	230.0	408.5	220.6	423.1	218.4	407.1	219.3	421.8	217.0	206.4	384.8	196.9	399.5	194.7	383.5	195.6	398.1	193.4
92.0	31.3	31.6	92.8	202.2	355.8	194.5	368.5	192.5	354.5	193.2	367.2	191.2	174.8	328.4	167.1	341.1	165.1	327.1	165.8	339.8	163.8
93.0	27.9	28.2	82.5	175.6	305.7	169.4	316.6	167.5	304.4	168.1	315.4	166.2	145.9	276.0	139.7	287.0	137.8	274.7	138.4	285.7	136.5
94.0	24.4	24.7	72.2	150.2	258.0	143.8	267.3	141.9	256.7	142.6	266.1	140.7	119.3	227.1	113.0	236.5	111.0	225.9	111.7	235.2	109.8
95.0	20.9	21.2	62.0	125.8	212.4	119.4	220.4	117.3	211.2	118.2	219.2	116.1	94.6	181.1	88.1	189.1	86.1	179.9	86.9	187.9	84.9
96.0	17.4	17.7	51.7	102.3	168.8	95.9	175.5	93.7	167.7	94.7	174.4	92.5	71.2	137.7	64.7	144.3	62.5	136.5	63.6	143.2	61.4
97.0	13.9	14.2	41.5	79.6	127.0	73.1	132.4	70.7	125.8	72.0	131.3	69.6	49.0	96.3	42.5	101.8	40.1	95.2	41.4	100.7	39.0
98.0	10.4	10.7	31.2	57.5	94.8	26.6	99.2	24.0	93.7	25.5	98.1	22.9	27.7	65.0	-3.2	69.4	-5.8	63.9	-4.3	68.3	-6.9
99.0	7.0	7.3	21.0	35.8	71.9	-20.5	75.1	-23.3	70.8	-21.6	74.0	-24.4	7.1	43.1	-49.2	46.4	-52.0	42.0	-50.3	45.3	-53.1
100.0	3.5	3.8	10.7	14.5	49.3	-42.5	51.5	-45.4	48.2	-43.6	50.4	-46.5	-12.8	22.0	-69.8	24.2	-72.7	20.9	-71.0	23.1	-73.9
101.0	0.0	0.3	0.4	-6.5	27.1	-63.6	28.2	-66.5	26.0	-64.7	27.0	-67.7	-32.1	1.5	-89.2	2.6	-92.1	0.4	-90.4	1.4	-93.3
102.0	-3.5	-3.2	-9.8	-27.4	5.0	-84.0	4.9	-86.9	3.8	-85.1	3.8	-88.1	-50.9	-18.5	-107.4	-18.5	-110.4	-19.6	-108.6	-19.7	-111.6
103.0	-7.0	-6.7	-20.1	-48.3	-17.1	-108.0	-18.4	-112.0	-18.3	-109.3	-19.6	-113.2	-69.1	-37.9	-128.8	-39.2	-132.8	-39.1	-130.1	-40.4	-134.0
104.0	-10.4	-10.1	-30.3	-69.2	-39.4	-141.4	-41.7	-146.3	-40.6	-142.7	-42.9	-147.6	-86.6	-56.8	-158.8	-59.1	-163.7	-58.0	-160.1	-60.3	-165.0
105.0	-13.9	-13.6	-40.6	-90.3	-61.9	-174.0	-63.7	-179.8	-63.2	-175.3	-64.9	-181.1	-103.4	-75.0	-187.1	-76.8	-192.9	-76.3	-188.4	-78.1	-194.2
106.0	-17.4	-17.1	-50.8	-111.7	-84.9	-207.7	-85.9	-214.3	-86.2	-209.0	-87.1	-215.6	-119.4	-92.6	-215.4	-93.6	-222.0	-93.8	-216.6	-94.8	-223.3
107.0	-20.9	-20.6	-61.1	-133.6	-108.4	-241.5	-108.4	-248.9	-109.6	-242.7	-109.6	-250.1	-134.4	-109.2	-242.4	-109.3	-249.8	-110.4	-243.6	-110.5	-251.0
108.0	-24.4	-24.1	-71.3	-156.0	-132.5	-275.9	-131.4	-285.2	-133.5	-276.9	-132.4	-286.2	-148.3	-124.8	-268.3	-123.7	-277.5	-125.8	-269.3	-124.7	-278.6
109.0	-27.9	-27.6	-81.6	-179.1	-157.2	-311.5	-154.9	-322.8	-157.9	-312.2	-155.5	-323.5	-161.2	-139.4	-293.7	-137.0	-305.0	-140.1	-294.3	-137.7	-305.7
110.0	-31.3	-31.0	-91.9	-203.7	-183.6	-349.8	-179.8	-363.4	-183.9	-350.0	-180.0	-363.7	-174.9	-154.9	-321.1	-151.1	-334.7	-155.2	-321.3	-151.3	-335.0
111.0	-34.8	-34.5	-102.1	-229.7	-211.7	-391.3	-206.2	-407.4	-211.5	-391.1	-206.0	-407.3	-192.7	-174.6	-354.2	-169.2	-370.4	-174.5	-354.1	-169.0	-370.3
112.0	-38.3	-38.0	-112.4	-266.8	-252.9	-462.0	-244.1	-482.3	-252.1	-461.2	-243.3	-481.5	-221.6	-207.7	-416.7	-198.8	-437.0	-206.9	-415.9	-198.0	-436.2
113.0	-41.8	-41.5	-122.6	-296.5	-284.9	-511.2	-274.2	-534.5	-284.1	-510.4	-273.4	-533.7	-251.6	-240.0	-466.3	-229.4	-489.7	-239.2	-465.5	-228.6	-488.9
114.0	-45.3	-45.0	-132.9	-327.1	-317.6	-562.9	-305.2	-589.3	-317.2	-562.4	-304.7	-588.8	-285.6	-276.1	-521.4	-263.7	-547.8	-275.6	-520.9	-263.2	-547.3
115.0	-53.9	-53.6	-148.3	-363.9	-355.4	-623.0	-341.3	-652.5	-355.5	-623.1	-341.4	-652.6	-335.4	-326.8	-594.4	-312.7	-624.0	-326.9	-594.5	-312.8	-624.1
116.0	67.6	66.7	-34.7	195.1	492.8	173.5	520.5	167.0	496.7	177.4	524.4	170.9	505.3	803.0	483.7	830.7	477.1	806.9	487.6	834.6	481.1
117.0	53.9	53.0	147.3	355.0	626.2	337.5	650.9	332.2	629.5	340.7	654.1	335.4	386.4	657.7	368.9	682.3	363.6	660.9	372.2	685.6	366.8
118.0	45.3	44.4	131.9	317.7	561.9	303.9	583.7	299.5	564.6	306.6	586.4	302.2	330.0	574.1	316.2	596.0	311.8	576.8	318.9	598.7	314.5

Combinacion de Esfuerzos Cortantes - ELU

Nota: Todos los Esfuerzos estan expresados en [T]

Posición	ELU - 1	ELU - 2	ELU - 3	ELU - 4	ELU - 5	ELU - 6	ELU - 7	ELU - 8	ELU - 9	ELU - 10	ELU - 11	ELU - 12	ELU - 13	ELU - 14	ELU - 15	ELU - 16	ELU - 17	ELU - 18	ELU - 19	ELU - 20	ELU - 21
119.0	41.8	40.9	121.6	286.3	503.5	275.5	522.7	271.9	505.8	277.8	525.0	274.3	286.3	503.5	275.5	522.7	271.9	505.8	277.9	525.0	274.3
120.0	38.3	37.4	111.4	256.0	446.8	247.7	463.7	244.7	448.9	249.7	465.7	246.7	246.9	437.8	238.6	454.6	235.6	439.8	240.7	456.6	237.7
121.0	34.8	33.9	101.1	226.9	392.4	219.4	407.1	216.8	394.3	221.3	409.0	218.7	211.6	377.1	204.1	391.8	201.5	379.0	206.0	393.7	203.4
122.0	31.3	30.5	90.9	199.1	340.5	191.2	353.2	188.9	342.2	193.0	354.9	190.7	179.7	321.1	171.8	333.8	169.5	322.8	173.6	335.5	171.3
123.0	27.9	27.0	80.6	172.6	290.9	164.5	301.9	162.2	292.6	166.2	303.6	163.9	150.6	269.0	142.5	280.0	140.3	270.7	144.2	281.7	142.0
124.0	24.4	23.5	70.4	147.2	243.7	138.9	253.1	136.7	245.4	140.6	254.8	138.3	123.9	220.4	115.6	229.8	113.3	222.1	117.3	231.5	115.0
125.0	20.9	20.0	60.1	122.9	198.7	114.5	206.6	112.1	200.3	116.1	208.3	113.8	99.0	174.8	90.6	182.8	88.3	176.4	92.2	184.4	89.9
126.0	17.4	16.5	49.9	99.4	155.5	91.0	162.2	88.5	157.1	92.6	163.8	90.1	75.6	131.7	67.2	138.4	64.7	133.3	68.8	140.0	66.3
127.0	13.9	13.0	39.6	76.8	114.0	68.4	119.5	65.6	115.6	69.9	121.1	67.2	53.4	90.7	45.0	96.2	42.3	92.3	46.6	97.8	43.9
128.0	10.4	9.6	29.3	54.7	80.2	46.3	84.6	43.5	81.7	47.9	86.1	45.0	32.2	57.7	23.9	62.1	21.0	59.2	25.4	63.6	22.5
129.0	7.0	6.1	19.1	33.1	47.9	20.0	51.1	17.0	49.4	21.5	52.6	18.5	11.8	26.6	-1.3	29.8	-4.3	28.1	0.2	31.3	-2.8
130.0	3.5	2.6	8.8	11.9	23.4	-12.1	25.5	-15.2	24.8	-10.6	27.0	-13.8	-7.9	3.6	-31.8	5.8	-35.0	5.0	-30.4	7.2	-33.6
131.0	0.0	-0.9	-1.4	-9.1	2.1	-48.3	3.1	-51.5	3.5	-46.9	4.5	-50.1	-27.0	-15.8	-66.1	-14.7	-69.3	-14.4	-64.8	-13.3	-68.0
132.0	-3.5	-4.4	-11.7	-29.9	-19.1	-83.5	-19.2	-86.8	-17.8	-82.2	-17.9	-85.5	-45.4	-34.6	-99.0	-34.7	-102.2	-33.3	-97.7	-33.4	-100.9
133.0	-7.0	-7.9	-21.9	-50.7	-40.3	-117.9	-41.7	-122.1	-39.1	-116.6	-40.4	-120.9	-63.1	-52.8	-130.3	-54.1	-134.6	-51.6	-129.1	-52.9	-133.4
134.0	-10.4	-11.3	-32.2	-71.5	-61.7	-151.4	-64.2	-156.6	-60.5	-150.2	-63.0	-155.4	-80.2	-70.4	-160.1	-73.0	-165.4	-69.2	-158.9	-71.8	-164.2
135.0	-13.9	-14.8	-42.5	-92.5	-83.2	-184.1	-85.3	-190.3	-82.0	-182.9	-84.1	-189.1	-96.6	-87.3	-188.2	-89.4	-194.4	-86.2	-187.0	-88.2	-193.2
136.0	-17.4	-18.3	-52.7	-113.7	-105.2	-216.2	-106.5	-223.2	-103.9	-214.9	-105.2	-222.0	-112.1	-103.5	-214.5	-104.8	-221.6	-102.3	-213.3	-103.6	-220.3
137.0	-20.9	-21.8	-63.0	-135.4	-127.6	-247.8	-128.0	-255.7	-126.2	-246.4	-126.6	-254.3	-126.7	-118.9	-239.0	-119.2	-246.9	-117.5	-237.6	-117.8	-245.6
138.0	-24.4	-25.3	-73.2	-157.7	-149.9	-279.2	-149.2	-288.7	-148.3	-277.5	-147.5	-287.0	-140.1	-132.4	-261.6	-131.6	-271.1	-130.7	-260.0	-130.0	-269.5
139.0	-27.9	-28.7	-83.5	-180.7	-172.6	-313.8	-170.6	-325.5	-170.5	-311.7	-168.5	-323.3	-152.9	-144.8	-286.0	-142.8	-297.6	-142.7	-283.9	-140.7	-295.5
140.0	-31.3	-32.2	-93.7	-205.4	-197.7	-351.9	-194.3	-365.9	-194.9	-349.1	-191.5	-363.1	-167.2	-159.5	-313.7	-156.1	-327.8	-156.7	-310.9	-153.3	-325.0
141.0	-34.8	-35.7	-104.0	-232.7	-226.6	-394.7	-221.5	-411.6	-223.1	-391.2	-218.0	-408.1	-186.7	-180.7	-348.8	-175.6	-365.7	-177.2	-345.3	-172.1	-362.2
142.0	-38.3	-39.2	-114.2	-257.5	-253.7	-436.5	-246.9	-455.7	-249.5	-432.4	-242.8	-451.5	-202.4	-198.5	-381.4	-191.8	-400.6	-194.3	-377.2	-187.6	-396.4
143.0	-41.8	-42.7	-124.5	-286.7	-284.4	-485.1	-276.0	-507.2	-279.8	-480.5	-271.3	-502.6	-228.9	-226.6	-427.3	-218.2	-449.5	-222.0	-422.7	-213.6	-444.8
144.0	-45.3	-46.2	-134.8	-316.9	-315.1	-536.0	-305.0	-561.2	-310.3	-531.2	-300.2	-556.4	-259.3	-257.5	-478.4	-247.4	-503.6	-252.7	-473.6	-242.7	-498.8
145.0	-53.9	-54.8	-150.1	-353.1	-351.7	-595.2	-340.1	-623.4	-347.0	-590.5	-335.4	-618.7	-305.2	-303.8	-547.4	-292.2	-575.6	-299.1	-542.7	-287.5	-570.9
146.0	-67.6	-64.7	-166.9	52.5	345.4	43.5	371.7	40.3	334.6	32.7	360.8	29.5	382.9	675.8	373.9	702.1	370.7	665.0	363.1	691.2	359.9
147.0	44.0	46.9	145.6	343.2	610.1	339.2	633.4	337.0	599.1	328.2	622.4	326.0	324.4	591.2	320.3	614.5	318.2	580.2	309.3	603.5	307.2
148.0	35.4	38.3	130.2	306.5	546.4	305.5	566.9	304.1	535.4	294.6	556.0	293.2	271.5	511.5	270.6	532.0	269.2	500.5	259.6	521.1	258.2
149.0	32.0	34.8	119.9	275.4	488.5	274.1	506.5	273.4	477.8	263.4	495.8	262.6	231.1	444.2	229.8	462.2	229.1	433.5	219.1	451.4	218.3
150.0	28.5	31.3	109.7	245.3	432.0	243.6	447.7	243.3	421.7	233.3	437.3	232.9	194.4	381.1	192.7	396.7	192.3	370.7	182.3	386.3	181.9
151.0	25.0	27.9	99.4	216.4	377.5	214.3	391.0	214.2	367.6	204.4	381.1	204.3	161.2	322.3	159.1	335.8	159.0	312.4	149.2	325.9	149.1
152.0	21.5	24.4	89.2	188.6	325.1	186.3	336.7	186.3	315.7	176.9	327.3	176.9	130.9	267.4	128.5	279.0	128.6	258.0	119.2	269.6	119.2
153.0	18.0	20.9	78.9	162.0	274.8	159.4	284.8	159.4	266.0	150.6	276.0	150.6	103.1	215.9	100.5	225.9	100.5	207.1	91.7	217.1	91.7
154.0	14.5	17.4	68.6	136.4	226.6	133.6	235.1	133.6	218.4	125.4	226.8	125.4	77.4	167.6	74.6	176.0	74.5	159.3	66.4	167.8	66.3
155.0	11.1	13.9	58.4	111.8	180.4	108.9	187.5	108.7	172.9	101.3	179.9	101.1	53.3	121.9	50.4	129.0	50.2	114.4	42.8	121.4	42.6
156.0	7.6	10.4	48.1	88.1	136.2	81.8	142.0	81.4	129.2	74.8	135.1	74.4	30.8	78.9	24.4	84.7	24.0	71.9	17.5	77.8	17.1
157.0	4.1	7.0	37.9	65.2	108.0	50.6	112.7	50.0	101.7	44.3	106.4	43.6	9.6	52.4	-5.0	57.1	-5.7	46.1	-11.3	50.8	-12.0
158.0	0.6	3.5	27.6	43.1	85.4	14.5	89.1	13.7	79.6	8.8	83.3	7.9	-10.3	32.0	-38.9	35.6	-39.7	26.2	-44.6	29.9	-45.5
159.0	-2.9	0.0	17.4	21.8	63.4	-22.8	66.0	-23.8	58.1	-28.0	60.8	-29.1	-28.9	12.7	-73.4	15.4	-74.5	7.4	-78.7	10.1	-79.8
160.0	-6.4	-3.5	7.1	1.5	41.8	-56.8	43.5	-58.0	36.8	-61.8	38.5	-63.0	-45.9	-5.6	-104.2	-3.8	-105.4	-10.6	-109.1	-8.8	-110.4
161.0	-9.8	-7.0	-3.2	-17.7	20.6	-86.6	21.4	-87.9	15.6	-91.6	16.4	-92.9	-61.1	-22.8	-130.0	-22.0	-131.3	-27.8	-135.0	-27.0	-136.3
162.0	-13.3	-10.5	-13.4	-35.4	-0.3	-110.8	-0.4	-112.3	-5.8	-116.3	-5.9	-117.8	-74.2	-39.0	-149.5	-39.2	-151.0	-44.5	-155.0	-44.7	-156.5
163.0	-16.8	-13.9	-23.7	-51.3	-21.0	-127.5	-22.1	-129.9	-27.7	-134.3	-28.8	-136.7	-84.5	-54.2	-160.8	-55.3	-163.2	-60.9	-167.5	-62.0	-169.9
164.0	-20.3	-17.4	-33.9	-64.6	-41.5	-134.5	-42.7	-137.7	-50.5	-143.4	-51.7	-146.7	-91.4	-68.4	-161.3	-69.5	-164.5	-77.3	-170.2	-78.5	-173.5
165.0	-23.8	-20.9	-44.2	-74.8	-62.1	-128.5	-63.0	-132.5	-74.7	-141.1	-75.6	-145.2	-94.2	-81.5	-147.9	-82.5	-152.0	-94.2	-160.5	-95.1	-164.6
166.0	-27.2	-24.4	-54.4	-83.2	-82.8	-110.5	-83.0	-115.3	-101.5	-129.2	-101.8	-134.1	-96.7	-96.2	-123.9	-96.5	-128.8	-115.0	-142.7	-115.3	-147.6
166.5	-29.0	-26.1	-59.6	-91.1	-90.6	-124.8	-90.9	-130.1	-109.4	-143.6	-109.7	-148.9	-102.2	-101.8	-135.9	-102.1	-141.3	-120.5	-154.7	-120.8	-160.1
167.5	-32.5	-29.6	-69.8	-108.4	-108.0	-158.8	-108.2	-165.4	-126.7	-177.6	-127.0	-184.2	-116.4	-116.0	-166.8	-116.3	-173.5	-134.8	-185.6	-135.1	-192.2
168.5	-36.0	-33.1	-80.1	-125.7	-125.3	-192.8	-125.6	-200.7	-144.1	-211.5	-144.3	-219.5	-130.7	-130.3	-197.7	-130.6	-205.7	-149.1	-216.5	-149.3	-224.4
169.5	-39.4	-36.6	-90.3	-143.1	-142.6	-226.8	-142.9	-235.9	-161.4	-245.5	-161.7	-254.7	-144.9	-144.5	-228.6	-144.8	-237.8	-163.3	-247.4	-163.6	-256.6
170.5	-53.2	-50.3	-110.8	-170.6	-170.2	-271.0	-170.5	-281.5	-189.0	-289.8	-189.3	-300.2	-169.4	-169.0	-269.8	-169.3	-280.3	-187.8	-288.6	-188.1	-299.0

ESFUERZOS MÁXIMOS DE CORTANTE - ELU



Combinacion de Esfuerzos Torsores - ELU

Nota: Todos los Esfuerzos estan expresados en [T·m]

Posición	ELU - 1	ELU - 2	ELU - 3	ELU - 4	ELU - 5	ELU - 6	ELU - 7	ELU - 8	ELU - 9	ELU - 10	ELU - 11	ELU - 12	ELU - 13	ELU - 14	ELU - 15	ELU - 16	ELU - 17	ELU - 18	ELU - 19	ELU - 20	ELU - 21
0.0	0.0	-1.6	-32.1	-63.7	257.5	-165.5	264.0	-212.0	246.7	-176.3	253.2	-222.8	-5.0	316.2	-106.8	322.7	-153.3	305.4	-117.6	311.9	-164.1
1.0	0.0	-1.6	-29.7	-87.9	158.7	-236.2	163.9	-280.1	158.6	-236.3	163.8	-280.2	-50.3	196.3	-198.6	201.5	-242.5	196.2	-198.7	201.4	-242.6
2.0	0.0	-1.6	-27.2	-102.3	88.1	-279.4	91.8	-320.5	94.8	-272.8	98.5	-313.8	-82.8	107.6	-259.9	111.3	-301.0	114.3	-253.3	118.0	-294.3
3.0	0.0	-1.6	-24.8	-108.9	41.1	-300.0	43.2	-338.1	51.6	-289.5	53.7	-327.6	-104.7	45.4	-295.8	47.4	-333.9	55.9	-285.3	57.9	-323.4
4.0	0.0	-1.6	-22.4	-109.3	7.2	-303.2	7.5	-338.1	19.6	-290.8	19.9	-325.7	-117.8	-1.3	-311.7	-1.0	-346.6	11.1	-299.3	11.4	-334.2
5.0	0.0	-1.6	-19.9	-105.0	17.5	-292.9	15.9	-326.2	30.4	-280.0	28.8	-313.3	-124.0	-1.4	-311.9	-3.0	-345.2	11.5	-299.0	9.9	-332.3
6.0	0.0	-1.6	-17.5	-97.0	29.3	-272.7	25.8	-304.5	41.9	-260.2	38.4	-292.0	-124.4	1.9	-300.1	-1.6	-331.9	14.5	-287.6	11.0	-319.4
7.0	0.0	-1.6	-15.0	-86.3	42.2	-245.1	36.8	-275.5	53.9	-233.5	48.5	-263.8	-120.3	8.2	-279.1	2.8	-309.5	19.9	-267.5	14.5	-297.8
8.0	0.0	-1.6	-12.6	-73.7	56.2	-219.5	48.9	-248.3	66.6	-209.0	59.3	-237.8	-112.6	17.2	-258.4	9.9	-287.3	27.6	-248.0	20.4	-276.8
9.0	0.0	-1.6	-10.1	-59.6	71.0	-201.9	62.0	-229.1	80.0	-192.8	71.0	-220.0	-102.0	28.5	-244.3	19.5	-271.5	37.6	-235.2	28.6	-262.5
10.0	0.0	-1.6	-7.7	-44.5	86.5	-179.7	75.8	-205.3	94.1	-172.0	83.5	-197.6	-88.9	42.1	-224.1	31.5	-249.7	49.7	-216.4	39.1	-242.0
11.0	0.0	-1.6	-5.2	-29.0	102.3	-154.0	90.5	-177.9	108.6	-147.8	96.7	-171.6	-73.7	57.6	-198.8	45.7	-222.7	63.8	-192.5	52.0	-216.4
12.0	0.0	-1.6	-2.8	-13.2	118.4	-125.6	109.4	-147.7	123.3	-120.7	114.3	-142.8	-56.6	75.0	-169.0	66.0	-191.1	79.9	-164.1	70.9	-186.2
13.0	0.0	-1.6	-0.4	2.4	134.1	-99.3	127.8	-119.4	137.8	-95.7	131.4	-115.7	-37.6	94.0	-139.4	87.7	-159.5	97.7	-135.7	91.3	-155.8
14.0	0.0	-1.6	2.1	17.7	149.2	-71.9	145.1	-89.9	151.7	-69.4	147.6	-87.4	-16.8	114.7	-106.3	110.7	-124.4	117.2	-103.8	113.2	-121.8
15.0	0.0	-1.6	4.5	32.2	162.9	-63.2	160.8	-79.0	164.4	-61.7	162.3	-77.5	6.2	136.8	-89.2	134.7	-105.0	138.3	-87.7	136.2	-103.6
16.0	0.0	-1.6	7.0	45.7	174.5	-54.4	173.9	-68.0	175.1	-53.8	174.6	-67.4	31.4	160.2	-68.7	159.6	-82.3	160.8	-68.1	160.3	-81.7
17.0	0.0	-1.6	9.4	57.7	183.1	-44.1	183.6	-55.9	183.1	-44.1	183.6	-55.8	59.1	184.5	-42.7	185.0	-54.5	184.5	-42.7	185.0	-54.5
18.0	0.0	-1.6	11.9	67.8	202.8	-32.4	203.9	-42.4	202.5	-32.7	203.6	-42.7	89.2	224.2	-11.0	225.3	-21.0	223.9	-11.3	225.0	-21.3
19.0	0.0	-1.6	14.3	75.4	220.2	-19.7	221.4	-27.5	220.0	-19.8	221.2	-27.6	119.1	263.9	24.1	265.1	16.3	263.7	23.9	264.9	16.1
20.0	0.0	-1.6	16.8	79.1	230.0	-7.6	230.7	-12.9	230.3	-7.3	231.0	-12.6	142.6	293.5	55.9	294.1	50.6	293.8	56.2	294.4	50.9
21.0	0.0	-1.6	19.2	76.7	229.7	0.5	228.7	-3.2	230.6	1.3	229.5	-2.4	153.7	306.8	77.5	305.7	73.8	307.6	78.3	306.5	74.6
21.5	0.0	-1.6	20.4	67.4	218.9	1.2	219.0	-2.7	220.1	2.3	220.2	-1.6	151.7	303.2	85.4	303.3	81.5	304.3	86.6	304.5	82.7
22.5	0.0	-1.6	22.9	60.7	213.1	-26.1	216.1	-32.0	214.1	-25.1	217.0	-31.1	142.9	295.3	56.1	298.2	50.1	296.2	57.0	299.2	51.1
23.5	0.0	-1.6	25.3	51.6	209.2	-56.7	215.0	-64.9	209.2	-56.7	215.0	-64.9	124.3	282.0	16.1	287.7	7.9	282.0	16.1	287.7	7.9
24.5	0.0	-1.6	27.8	39.7	198.5	-88.0	206.6	-98.5	197.0	-89.5	205.2	-100.0	91.9	250.7	-35.8	258.9	-46.3	249.2	-37.3	257.4	-47.8
25.5	0.0	-4.7	-42.0	-39.4	116.9	-183.6	126.7	-195.5	112.2	-188.2	122.1	-200.1	50.2	206.4	-94.0	216.3	-105.9	201.8	-98.7	211.7	-110.5
26.5	0.0	-4.8	-39.6	-53.4	94.2	-215.4	105.4	-229.1	88.1	-221.5	99.3	-235.2	1.1	148.7	-160.9	159.9	-174.6	142.6	-167.0	153.8	-180.7
27.5	0.0	-1.1	-33.5	-63.3	72.6	-238.0	84.4	-253.1	65.6	-245.0	77.4	-260.2	-44.0	91.9	-218.7	103.7	-233.8	84.9	-225.7	96.7	-240.9
28.5	0.0	-1.1	-31.1	-75.1	62.6	-259.8	74.5	-276.0	55.0	-267.4	67.0	-283.5	-86.6	51.2	-271.2	63.1	-287.4	43.6	-278.8	55.6	-294.9
29.5	0.0	-1.1	-28.7	-84.4	54.3	-275.6	66.0	-292.4	46.7	-283.3	58.3	-300.0	-118.8	19.9	-310.0	31.6	-326.7	12.3	-317.7	23.9	-334.4
30.5	0.0	-1.1	-26.2	-90.6	48.9	-284.5	59.8	-301.3	41.3	-292.2	52.1	-309.0	-141.3	-1.8	-335.2	9.1	-352.0	-9.4	-342.9	1.4	-359.6
31.5	0.0	-1.1	-23.8	-93.6	46.4	-286.6	56.1	-302.9	39.0	-294.0	48.7	-310.3	-155.3	-15.3	-348.3	-5.7	-364.7	-22.8	-355.8	-13.1	-372.1
32.5	0.0	-1.1	-21.3	-93.4	47.2	-294.5	55.3	-310.0	40.0	-301.7	48.1	-317.1	-162.7	-22.1	-363.9	-14.0	-379.3	-29.3	-371.0	-21.2	-386.5
33.5	0.0	-1.1	-18.9	-90.3	51.0	-302.9	57.3	-317.0	44.1	-309.8	50.4	-323.9	-164.6	-23.3	-377.2	-17.0	-391.2	-30.2	-384.1	-23.9	-398.2
34.5	0.0	-1.1	-16.4	-84.7	57.5	-305.5	61.8	-317.9	50.9	-312.2	55.1	-324.5	-162.2	-19.9	-382.9	-15.7	-395.3	-26.6	-389.6	-22.3	-402.0
35.5	0.0	-1.1	-14.0	-76.8	66.5	-302.6	68.6	-313.0	60.1	-309.0	62.2	-319.4	-155.9	-12.6	-381.7	-10.5	-392.1	-19.0	-388.1	-16.9	-398.5
36.5	0.0	-1.1	-11.5	-67.0	77.6	-295.1	77.4	-303.5	71.4	-301.3	71.2	-309.7	-147.0	-2.4	-375.1	-2.6	-383.5	-8.5	-381.3	-8.7	-389.7
37.5	0.0	-1.1	-9.1	-55.8	90.4	-283.5	87.9	-291.9	84.4	-289.5	81.9	-297.9	-135.8	10.4	-363.6	7.9	-371.9	4.4	-369.6	1.9	-377.9
38.5	0.0	-1.1	-6.6	-43.3	104.6	-268.4	101.2	-276.6	98.7	-274.3	95.3	-282.5	-122.8	25.1	-347.9	21.7	-356.1	19.2	-353.8	15.8	-361.9
39.5	0.0	-1.1	-4.2	-29.9	119.7	-249.7	118.8	-257.5	114.0	-255.4	113.0	-263.2	-107.9	41.7	-327.7	40.7	-335.5	36.0	-333.4	35.0	-341.3
40.5	0.0	-1.1	-1.8	-15.8	135.4	-228.1	136.9	-236.9	129.8	-233.7	131.3	-242.5	-91.6	59.7	-303.9	61.1	-312.7	54.1	-309.5	55.5	-318.3
41.5	0.0	-1.1	0.7	-1.4	151.4	-203.6	155.2	-214.2	145.9	-209.1	149.7	-219.7	-73.9	79.0	-276.1	82.8	-286.6	73.5	-281.5	77.3	-292.1
42.5	0.0	-1.1	3.1	13.0	167.3	-176.6	173.2	-188.5	161.9	-182.0	167.8	-193.9	-54.7	99.5	-244.4	105.4	-256.3	94.1	-249.8	100.0	-261.7
43.5	0.0	-1.1	5.6	27.4	182.4	-146.7	190.2	-159.6	177.2	-151.9	185.0	-164.8	-33.7	121.3	-207.9	129.1	-220.8	116.1	-213.1	123.9	-226.0
44.5	0.0	-1.1	8.0	41.3	196.5	-126.1	205.8	-139.5	191.5	-131.0	200.9	-144.4	-11.0	144.2	-178.4	153.5	-191.8	139.2	-183.4	148.6	-196.8
45.5	0.0	-1.1	10.5	54.5	208.8	-114.1	219.3	-127.5	204.1	-118.8	214.7	-132.1	13.8	168.1	-154.8	178.7	-168.2	163.5	-159.4	174.0	-172.8
46.5	0.0	-1.1	12.9	66.6	218.6	-100.0	229.9	-112.8	214.4	-104.2	225.7	-117.0	41.0	193.0	-125.7	204.3	-138.5	188.8	-129.9	200.1	-142.6
47.5	0.0	-1.1	15.4	77.3	225.0	-84.2	236.6	-95.8	221.5	-87.7	233.2	-99.3	70.9	218.6	-90.5	230.3	-102.2	215.1	-94.0	226.8	-105.7
48.5	0.0	-1.1	17.8	86.0	227.0	-67.4	238.5	-77.3	224.5	-69.9	236.0	-79.8	103.5	244.5	-49.9	255.9	-59.9	241.9	-52.4	253.4	-62.4
49.5	0.0	-1.1	20.3	92.5	226.8	-50.6	237.6	-58.4	225.6	-51.8	236.4	-59.6	136.1	270.3	-7.0	281.2	-14.8	269.1	-8.2	280.0	-16.1
50.5	0.0	-1.1	22.7	94.8	237.5	-35.0	247.0	-40.4	237.9	-34.6	247.4	-39.9	162.3	304.9	32.5	314.4	27.1	305.3	32.9	314.9	27.5
51.0	0.0	-1.1	23.9	90.4	237.1	-24.3	244.3	-26.9	239.1	-22.3	246.3	-24.9	176.6	323.3	62.0	330.5	59.4	325.4	64.0	332.6	61.4
52.0	0.0	-1.1	26.4	80.6	227.6	-17.4	231.5	-17.1	231.0	-13.9	234.9	-13.6	176.3	323.3	78.4	327.2	78.7	326.7	81.8	330.6	82.1
53.0	0.0	-1.1	28.8	72.2	213.1	-11.1	217.3	-10.3	217.3	-6.9	221.5	-6.0	169.2	310.2	85.9	314.4	86.8	314.4	90.2	318.6	91.0
54.0	0.0	-4.8	27.6	57.9	198.4	-46.4	204.7	-48.5	202.7	-42.1	209.0	-44.2	149.2	289.8	45.0	296.1	42.9	294.1	49.3	300.4	47.2
55.0	0.0	-4.7	30.1	44.5	182.5	-79.1	191.4	-84.3	186.1	-75.4	195.1	-80.6	118.5	256.4	-5.2	265.4	-10.3	260.1	-1.5	269.0	-6.6
56.0	0.0	-8.3	29.0	33.3	169.3	-108.5	180.1	-115.7	170.7	-107.1	181.5	-114.2	78.6	214.6	-63.2	225.4	-70.4	216.1	-61.7	226.8	-68.9
57.0	0.0	-8.3	-42.5	-55.9	74.9	-217.5	87.2	-227.2	75.4	-217.0	87.6	-226.7	29.2	160.1	-132.3	172.3	-142.1	160.6	-131.9	172.8	-141.6
58.0	0.0	-0.8	-32.6	-62.7	70.8	-238.7	83.7	-250.5	70.5	-239.0	83.5	-250.7	-13.2	120.3	-189.2	133.2	-201.0	120.0	-189.5	132.9	-201.3
59.0	0.0	-0.8	-30.2	-75.2	60.7	-262.6	73.8	-276.0	60.0	-263.3	73.1	-276.6	-57.4	78.5	-244.8	91.7	-258.1	77.9	-245.4	91.0	-258.8

Combinacion de Esfuerzos Torsores - ELU

Nota: Todos los Esfuerzos estan expresados en [T·m]

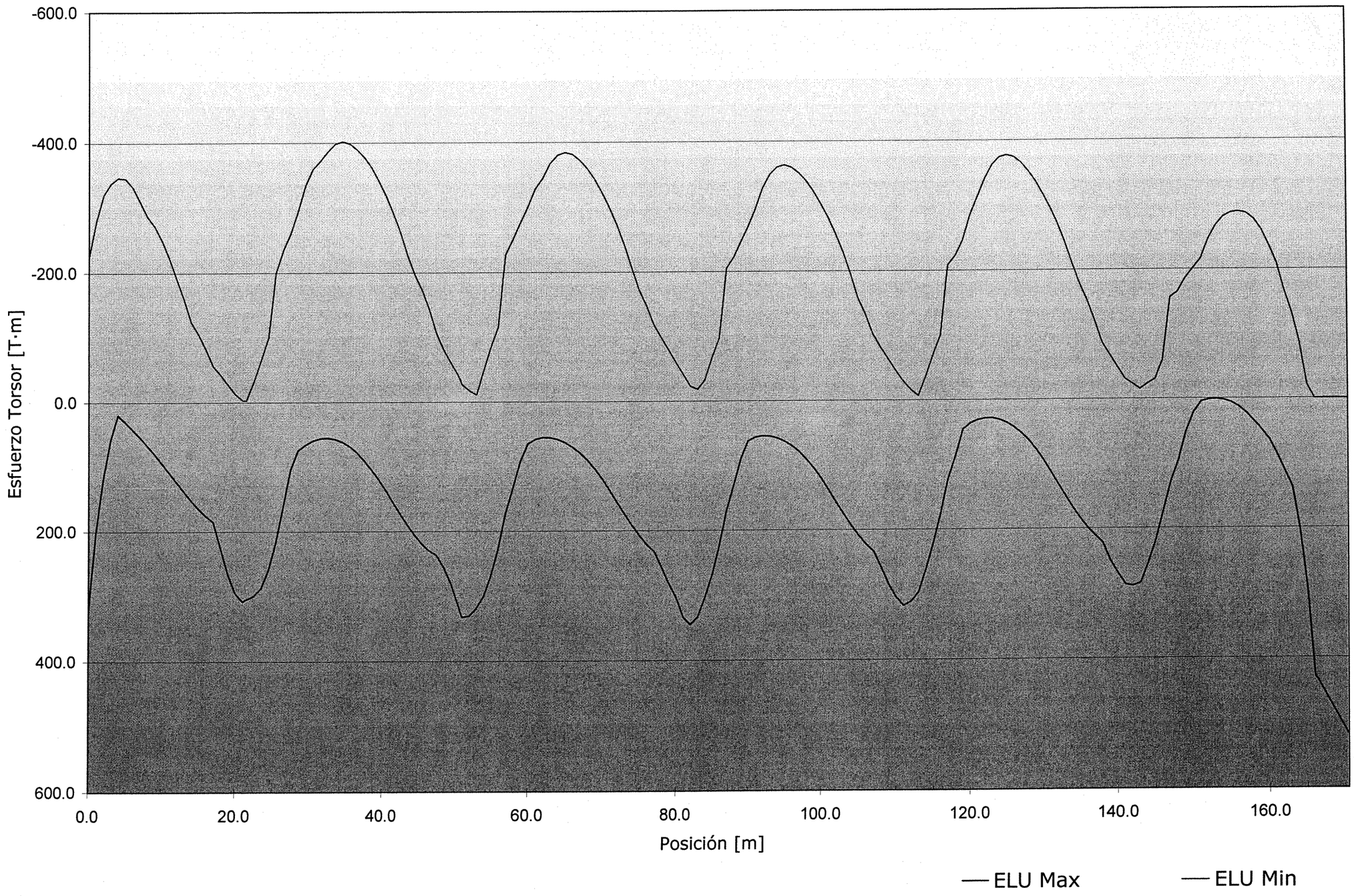
Posición	ELU - 1	ELU - 2	ELU - 3	ELU - 4	ELU - 5	ELU - 6	ELU - 7	ELU - 8	ELU - 9	ELU - 10	ELU - 11	ELU - 12	ELU - 13	ELU - 14	ELU - 15	ELU - 16	ELU - 17	ELU - 18	ELU - 19	ELU - 20	ELU - 21
60.0	0.0	-0.8	-27.7	-85.0	52.2	-280.0	65.0	-294.4	51.4	-280.8	64.2	-295.3	-91.0	46.2	-286.0	59.0	-300.4	45.4	-286.8	58.2	-301.2
61.0	0.0	-0.9	-25.3	-91.5	46.3	-290.2	58.4	-305.1	45.5	-291.0	57.6	-305.9	-114.3	23.6	-312.9	35.7	-327.8	22.8	-313.7	34.9	-328.6
62.0	0.0	-0.8	-22.9	-94.7	44.4	-295.0	55.3	-309.8	43.7	-295.8	54.6	-310.5	-129.1	10.0	-329.4	20.9	-344.2	9.3	-330.2	20.2	-344.9
63.0	0.0	-0.8	-20.4	-94.7	46.3	-310.6	55.6	-324.7	45.7	-311.2	55.0	-325.3	-136.9	4.0	-352.8	13.4	-367.0	3.4	-353.4	12.8	-367.6
64.0	0.0	-0.8	-18.0	-91.7	50.8	-319.4	58.3	-332.4	50.4	-319.9	57.9	-332.9	-139.1	3.4	-366.8	10.9	-379.8	3.0	-367.3	10.5	-380.3
65.0	0.0	-0.9	-15.5	-86.0	57.8	-322.0	63.3	-333.5	57.5	-322.3	63.0	-333.8	-136.6	7.2	-372.5	12.7	-384.0	6.9	-372.8	12.4	-384.3
66.0	0.0	-0.8	-13.1	-78.2	67.0	-319.3	70.2	-329.0	66.8	-319.5	70.0	-329.1	-130.7	14.4	-371.8	17.7	-381.5	14.2	-372.0	17.5	-381.7
67.0	0.0	-0.8	-10.6	-68.4	77.9	-311.6	78.9	-319.2	77.9	-311.7	78.8	-319.3	-121.9	24.5	-365.1	25.5	-372.7	24.4	-365.2	25.4	-372.8
68.0	0.0	-0.8	-8.2	-57.1	90.4	-299.7	89.1	-306.4	90.4	-299.7	89.1	-306.4	-110.7	36.8	-353.3	35.5	-360.0	36.8	-353.3	35.4	-360.0
69.0	0.0	-0.9	-5.7	-44.5	104.0	-283.8	101.0	-290.4	104.0	-283.7	101.0	-290.3	-97.5	51.0	-336.8	48.0	-343.4	51.0	-336.7	48.0	-343.3
70.0	0.0	-0.8	-3.3	-31.1	119.3	-264.7	118.7	-271.1	119.3	-264.7	118.7	-271.1	-82.9	67.5	-316.6	66.8	-322.9	67.5	-316.5	66.8	-322.9
71.0	0.0	-0.8	-0.8	-17.0	135.6	-242.3	137.3	-250.0	135.6	-242.3	137.3	-250.0	-66.7	85.8	-292.1	87.5	-299.8	85.8	-292.1	87.5	-299.8
72.0	0.0	-0.8	1.6	-2.5	152.0	-217.0	156.0	-226.4	152.0	-217.0	155.9	-226.4	-49.2	105.4	-263.6	109.3	-273.0	105.4	-263.6	109.3	-273.0
73.0	0.0	-0.9	4.0	12.1	168.3	-188.7	174.3	-199.4	168.3	-188.7	174.2	-199.5	-30.0	126.3	-230.7	132.2	-241.5	126.2	-230.8	132.2	-241.5
74.0	0.0	-0.8	6.5	26.4	183.9	-158.0	191.7	-169.7	183.8	-158.1	191.6	-169.7	-9.5	148.0	-193.9	155.8	-205.6	147.9	-194.0	155.7	-205.6
75.0	0.0	-0.8	8.9	40.4	198.2	-132.2	207.5	-144.3	198.2	-132.2	207.5	-144.4	12.9	170.8	-159.6	180.1	-171.8	170.7	-159.7	180.0	-171.8
76.0	0.0	-0.8	11.4	53.6	210.7	-119.5	221.2	-131.6	210.7	-119.4	221.2	-131.5	37.3	194.5	-135.7	204.9	-147.8	194.5	-135.7	205.0	-147.8
77.0	0.0	-0.9	13.8	65.7	220.6	-104.5	231.8	-116.0	220.9	-104.2	232.1	-115.7	64.1	219.0	-106.1	230.2	-117.6	219.3	-105.8	230.5	-117.3
78.0	0.0	-0.8	16.3	76.4	227.1	-87.9	238.6	-98.2	227.8	-87.3	239.3	-97.6	93.3	244.1	-71.0	255.6	-81.3	244.7	-70.3	256.2	-80.6
79.0	0.0	-0.8	18.7	85.1	229.2	-70.4	240.5	-79.0	230.5	-69.1	241.8	-77.7	125.0	269.0	-30.5	280.3	-39.2	270.3	-29.2	281.6	-37.9
80.0	0.0	-0.8	21.2	91.6	225.7	-53.0	236.4	-59.7	228.1	-50.7	238.7	-57.4	155.8	290.0	11.2	300.6	4.6	292.3	13.6	303.0	6.9
81.0	0.0	-0.9	23.6	94.0	236.5	-37.2	245.8	-41.5	240.1	-33.6	249.4	-37.9	178.8	321.3	47.7	330.7	43.4	324.9	51.3	334.3	47.0
82.0	0.0	-0.9	26.0	76.9	227.4	-23.1	231.3	-22.2	233.2	-17.2	237.1	-16.3	185.0	335.5	85.0	339.4	85.9	341.3	90.9	345.2	91.8
83.0	0.0	-0.8	28.5	69.4	216.6	-18.3	220.7	-17.9	222.8	-12.1	227.0	-11.6	176.2	323.4	88.5	327.6	89.0	329.7	94.8	333.9	95.3
84.0	0.0	-8.3	23.5	51.9	193.3	-30.3	199.7	-32.6	199.2	-24.3	205.7	-26.6	150.5	291.9	68.4	298.4	66.1	297.9	74.4	304.4	72.1
85.0	0.0	-8.3	25.9	39.2	176.1	-62.4	185.0	-67.5	181.1	-57.3	190.0	-62.5	118.2	255.1	16.6	264.0	11.5	260.1	21.7	269.1	16.5
86.0	0.0	-11.8	24.9	28.4	162.4	-90.0	173.0	-97.0	164.8	-87.5	175.5	-94.5	76.8	210.8	-41.5	221.4	-48.6	213.3	-39.1	223.9	-46.1
87.0	0.0	-11.8	-46.0	-59.6	69.7	-195.3	81.6	-204.8	70.9	-194.1	82.8	-203.6	26.8	156.2	-108.9	168.1	-118.3	157.4	-107.6	169.3	-117.1
88.0	0.0	-0.5	-32.3	-62.2	67.5	-210.6	80.0	-222.0	67.8	-210.3	80.3	-221.7	-12.0	117.6	-160.5	130.2	-171.9	117.9	-160.2	130.4	-171.6
89.0	0.0	-0.5	-29.8	-74.4	57.8	-232.9	70.4	-245.8	57.6	-233.1	70.2	-246.0	-56.1	76.1	-214.6	88.7	-227.5	75.9	-214.8	88.5	-227.7
90.0	0.0	-0.5	-27.4	-83.8	49.8	-249.1	62.1	-263.0	49.4	-249.6	61.7	-263.4	-89.6	44.0	-254.9	56.3	-268.8	43.5	-255.4	55.8	-269.2
91.0	0.0	-0.5	-24.9	-90.1	44.8	-258.7	56.3	-273.0	44.3	-259.3	55.8	-273.5	-112.9	22.0	-281.5	33.5	-295.8	21.5	-282.1	33.0	-296.3
92.0	0.0	-0.5	-22.5	-93.1	44.1	-279.0	54.4	-293.1	43.6	-279.4	53.9	-293.5	-127.6	9.5	-313.5	19.8	-327.6	9.1	-313.9	19.4	-328.0
93.0	0.0	-0.5	-20.1	-92.9	46.1	-292.6	54.9	-306.0	45.8	-292.9	54.5	-306.3	-135.5	3.5	-335.2	12.2	-348.6	3.2	-335.5	11.9	-349.0
94.0	0.0	-0.5	-17.6	-89.8	50.8	-299.8	57.7	-312.0	50.6	-300.0	57.5	-312.3	-137.7	2.8	-347.7	9.7	-360.0	2.6	-347.9	9.5	-360.2
95.0	0.0	-0.5	-15.2	-84.1	57.8	-301.3	62.7	-312.0	57.7	-301.4	62.6	-312.1	-135.4	6.5	-352.6	11.3	-363.4	6.4	-352.7	11.3	-363.5
96.0	0.0	-0.5	-12.7	-76.1	67.0	-297.7	69.7	-306.6	67.0	-297.6	69.7	-306.5	-129.4	13.7	-350.9	16.4	-359.9	13.7	-350.9	16.4	-359.8
97.0	0.0	-0.5	-10.3	-66.3	78.0	-289.8	78.4	-296.7	78.0	-289.7	78.5	-296.6	-120.7	23.5	-344.2	24.0	-351.1	23.6	-344.1	24.1	-351.0
98.0	0.0	-0.5	-7.8	-55.0	90.4	-278.0	88.6	-284.5	90.5	-277.9	88.7	-284.3	-109.7	35.7	-332.7	33.9	-339.1	35.8	-332.6	34.0	-339.0
99.0	0.0	-0.5	-5.4	-42.4	103.9	-262.7	101.6	-269.0	104.0	-262.6	101.7	-268.9	-96.6	49.8	-316.9	47.4	-323.2	49.9	-316.7	47.6	-323.0
100.0	0.0	-0.5	-2.9	-29.0	119.5	-244.7	119.4	-250.7	119.5	-244.6	119.5	-250.6	-82.1	66.4	-297.8	66.4	-303.8	66.4	-297.7	66.4	-303.7
101.0	0.0	-0.5	-0.5	-15.0	135.7	-223.8	138.0	-231.6	135.7	-223.8	138.0	-231.6	-66.1	84.6	-274.9	86.9	-282.7	84.6	-274.9	86.9	-282.7
102.0	0.0	-0.5	1.9	-0.6	152.2	-200.3	156.6	-209.7	152.1	-200.4	156.6	-209.8	-48.5	104.3	-248.2	108.7	-257.6	104.2	-248.3	108.6	-257.7
103.0	0.0	-0.5	4.4	13.9	168.5	-174.8	174.9	-185.4	168.3	-175.0	174.7	-185.6	-29.7	124.9	-218.3	131.4	-228.9	124.7	-218.6	131.2	-229.2
104.0	0.0	-0.5	6.8	28.2	184.1	-147.1	192.4	-158.5	183.8	-147.4	192.0	-158.8	-9.1	146.9	-184.3	155.1	-195.8	146.5	-184.7	154.8	-196.1
105.0	0.0	-0.5	9.3	42.1	198.7	-117.4	208.3	-129.2	198.3	-117.8	208.0	-129.5	13.4	170.0	-146.1	179.7	-157.8	169.6	-146.4	179.3	-158.2
106.0	0.0	-0.5	11.7	55.1	211.4	-103.6	222.2	-115.1	211.1	-103.9	221.9	-115.5	37.8	194.1	-120.9	204.9	-132.5	193.8	-121.2	204.5	-132.8
107.0	0.0	-0.5	14.2	67.2	221.7	-88.2	233.2	-99.1	221.6	-88.4	233.0	-99.2	64.8	219.3	-90.6	230.7	-101.5	219.2	-90.8	230.6	-101.6
108.0	0.0	-0.5	16.6	77.7	228.5	-71.9	240.3	-81.6	228.9	-71.6	240.6	-81.3	94.6	245.4	-55.0	257.1	-64.7	245.7	-54.7	257.5	-64.4
109.0	0.0	-0.5	19.1	86.4	231.0	-55.4	242.7	-63.6	232.2	-54.3	243.8	-62.4	126.7	271.3	-15.2	282.9	-23.3	272.4	-14.1	284.0	-22.2
110.0	0.0	-0.5	21.5	91.6	225.9	-39.5	236.8	-45.6	228.1	-37.3	239.0	-43.4	156.9	291.1	25.8	302.0	19.6	293.3	28.0	304.2	21.8
111.0	0.0	-0.5	24.0	93.1	220.3	-25.0	229.9	-28.8	223.6	-21.8	233.2	-25.5	177.2	304.4	59.1	314.0	55.3	307.7	62.3	317.3	58.6
112.0	0.0	-0.5	26.4	72.9	198.2	-16.1	202.1	-14.7	203.0	-11.2	206.9	-9.9	176.8	302.1	87.9	306.0	89.2	306.9	92.7	310.8	94.0
113.0	0.0	-0.5	28.9	65.6	186.5	-6.5	190.7	-6.4	191.3	-1.6	195.6	-1.5	166.7	287.6	94.6	291.8	94.7	292.4	99.5	296.7	99.6
114.0	0.0	-11.8	20.0	44.5	159.3	-33.7	166.3	-36.3	163.4	-29.6	170.4	-32.3	135.3	250.2	57.2	257.2	54.5	254.3	61.2	261.3	58.6
115.0	0.0	-11.8	22.4	32.0	139.4	-64.6	148.9	-70.0	142.1	-61.9	151.6	-67.3	101.3	208.7	4.7	218.2	-0.7	211.3	7.3	220.8	1.9
116.0	0.0	-14.9	21.7	20.9	126.7	-92.2	138.0	-99.5	126.6	-92.3	137.8	-99.7	58.2	163.9	-55.0	175.2	-62.3	163.8	-55.1	175.1	-62.4
117.0	0.0	-14.9	-49.2	-66.9	34.9	-196.7	47.5	-206.4	33.1	-198.5	45.7	-208.2	6.9	108.6	-122.9	121.3	-132.6	106.8	-124.7	119.4	-134.4
118.0	0.0	-0.2	-32.0	-65.7	37.2	-207.7	50.5	-219.3	34.0	-210.8	47.3	-222.4	-29.6	73.3	-171.5	86.7	-183.1	70.2	-174.7	83.5	-186.3
119.0	0.0	-0.2	-29.6	-77.7	29.5	-229.1	43.0	-242.1	25.4	-233.2	38.9	-246.2	-74.6	32.6	-226.0	46.1	-239.1	28.5	-230.1	42.0	-243.1
120.0	0.0	-0.2	-27.1	-86.9	23.0	-244.6	36.2	-258.6	18.2	-249.3	31.5	-263.3	-109.0	0.9	-266.6	14.2	-280.6	-3.8	-271.4	9.5	-285.4

Combinacion de Esfuerzos Torsores - ELU

Nota: Todos los Esfuerzos estan expresados en [T·m]

Posición	ELU - 1	ELU - 2	ELU - 3	ELU - 4	ELU - 5	ELU - 6	ELU - 7	ELU - 8	ELU - 9	ELU - 10	ELU - 11	ELU - 12	ELU - 13	ELU - 14	ELU - 15	ELU - 16	ELU - 17	ELU - 18	ELU - 19	ELU - 20	ELU - 21
121.0	0.0	-0.2	-24.7	-93.1	18.7	-253.6	31.3	-268.0	13.6	-258.8	26.1	-273.1	-133.2	-21.4	-293.7	-8.8	-308.1	-26.6	-298.9	-14.0	-313.2
122.0	0.0	-0.2	-22.2	-96.0	17.1	-268.8	28.5	-283.0	11.7	-274.2	23.1	-288.4	-148.7	-35.6	-321.5	-24.2	-335.7	-41.0	-326.9	-29.6	-341.1
123.0	0.0	-0.2	-19.8	-95.7	18.4	-281.7	28.4	-295.2	12.9	-287.3	22.8	-300.7	-157.1	-42.9	-343.1	-33.0	-356.6	-48.5	-348.7	-38.6	-362.1
124.0	0.0	-0.2	-17.3	-92.6	22.7	-288.5	30.9	-300.8	17.0	-294.2	25.2	-306.5	-159.8	-44.6	-355.8	-36.4	-368.0	-50.3	-361.5	-42.0	-373.7
125.0	0.0	-0.2	-14.9	-86.9	29.5	-289.8	35.8	-300.5	23.8	-295.5	30.1	-306.2	-157.9	-41.5	-360.8	-35.2	-371.5	-47.2	-366.6	-41.0	-377.3
126.0	0.0	-0.2	-12.5	-79.0	38.8	-286.2	43.0	-295.1	33.0	-292.0	37.2	-300.9	-152.3	-34.5	-359.5	-30.3	-368.3	-40.3	-365.3	-36.1	-374.1
127.0	0.0	-0.2	-10.0	-69.2	50.1	-278.4	52.1	-285.1	44.3	-284.2	46.3	-291.0	-143.6	-24.3	-352.8	-22.3	-359.5	-30.1	-358.6	-28.1	-365.4
128.0	0.0	-0.2	-7.6	-57.9	63.2	-266.8	63.0	-271.5	57.3	-272.8	57.1	-277.4	-132.5	-11.4	-341.4	-11.6	-346.1	-17.3	-347.4	-17.5	-352.0
129.0	0.0	-0.2	-5.1	-45.5	77.7	-252.2	75.5	-256.6	71.6	-258.2	69.5	-262.6	-119.5	3.6	-326.2	1.5	-330.6	-2.5	-332.3	-4.6	-336.7
130.0	0.0	-0.2	-2.7	-32.0	93.2	-234.4	93.4	-238.6	87.0	-240.5	87.3	-244.8	-104.5	20.7	-306.8	21.0	-311.1	14.6	-313.0	14.8	-317.2
131.0	0.0	-0.2	-0.2	-18.0	109.5	-214.2	112.0	-220.1	103.2	-220.5	105.7	-226.4	-88.0	39.5	-284.1	42.0	-290.1	33.2	-290.4	35.7	-296.4
132.0	0.0	-0.2	2.2	-3.7	126.1	-191.6	130.8	-199.1	119.7	-198.1	124.4	-205.5	-70.0	59.8	-257.9	64.5	-265.4	53.4	-264.4	58.1	-271.8
133.0	0.0	-0.2	4.7	10.8	142.7	-166.9	149.5	-175.5	136.2	-173.5	142.9	-182.1	-50.3	81.6	-228.1	88.4	-236.7	75.0	-234.6	81.8	-243.2
134.0	0.0	-0.2	7.1	25.1	158.9	-140.3	167.5	-149.6	152.3	-147.0	160.8	-156.3	-29.0	104.8	-194.4	113.4	-203.7	98.2	-201.1	106.7	-210.4
135.0	0.0	-0.2	9.5	38.9	174.2	-118.4	184.2	-128.0	167.6	-125.1	177.5	-134.7	-5.8	129.5	-163.2	139.5	-172.7	122.8	-169.9	132.8	-179.4
136.0	0.0	-0.2	12.0	52.0	188.0	-105.0	199.1	-114.3	181.5	-111.6	192.5	-120.9	19.4	155.4	-137.7	166.5	-147.0	148.9	-144.2	159.9	-153.5
137.0	0.0	-0.2	14.4	64.0	199.6	-90.2	211.3	-98.8	193.4	-96.4	205.1	-104.9	46.9	182.5	-107.3	194.2	-115.8	176.3	-113.5	188.0	-122.0
138.0	0.0	-0.2	16.9	74.4	208.0	-74.5	219.9	-81.7	202.6	-79.9	214.5	-87.2	77.1	210.7	-71.8	222.6	-79.0	205.3	-77.2	217.2	-84.5
139.0	0.0	-0.2	19.3	82.8	212.2	-58.6	223.9	-64.3	208.0	-62.8	219.7	-68.5	109.1	238.5	-32.3	250.2	-38.0	234.3	-36.5	246.0	-42.2
140.0	0.0	-0.2	21.8	87.4	208.7	-43.8	219.5	-47.3	206.2	-46.3	217.0	-49.8	137.5	258.8	6.3	269.6	2.8	256.3	3.8	267.1	0.3
141.0	0.0	-0.2	24.2	89.2	206.7	-29.2	216.5	-30.3	206.0	-29.9	215.8	-31.0	159.5	277.0	41.0	286.8	40.0	276.3	40.3	286.1	39.3
142.0	0.0	-0.2	26.7	80.9	197.3	-23.4	205.6	-21.8	198.3	-22.4	206.6	-20.8	163.1	279.4	58.7	287.7	60.3	280.5	59.7	288.7	61.3
143.0	0.0	-0.2	29.1	74.1	186.5	-15.0	195.4	-10.6	188.7	-12.8	197.6	-8.4	161.0	273.5	72.0	282.4	76.3	275.7	74.2	284.5	78.5
144.0	0.0	-14.9	16.9	50.2	157.0	-23.4	166.3	-21.2	159.6	-20.7	168.9	-18.6	134.9	241.7	61.3	251.0	63.5	244.3	63.9	253.6	66.1
145.0	0.0	-14.9	19.3	38.5	135.8	-30.0	145.2	-30.2	138.3	-27.6	147.6	-27.8	109.7	207.0	41.2	216.4	41.0	209.5	43.6	218.8	43.4
146.0	0.0	-16.6	20.1	26.5	114.8	-57.2	125.9	-59.4	116.1	-56.0	127.2	-58.1	73.4	161.7	-10.3	172.8	-12.5	163.0	-9.1	174.1	-11.2
147.0	0.0	-16.6	-44.7	-54.6	29.2	-152.2	41.5	-156.4	30.2	-151.2	42.6	-155.4	30.9	114.8	-66.7	127.1	-70.8	115.8	-65.7	128.1	-69.8
148.0	0.0	0.0	-25.7	-51.6	25.5	-159.2	38.4	-164.9	26.7	-158.0	39.6	-163.8	4.4	81.5	-103.2	94.4	-109.0	82.7	-102.0	95.6	-107.8
149.0	0.0	0.0	-23.2	-63.5	6.5	-178.8	19.6	-185.6	8.3	-177.0	21.3	-183.9	-33.2	36.8	-148.5	49.8	-155.4	38.6	-146.8	51.6	-153.6
150.0	0.0	0.0	-20.8	-73.1	-5.1	-193.4	7.6	-200.8	-2.4	-190.7	10.3	-198.1	-61.7	6.3	-182.0	19.0	-189.4	9.0	-179.3	21.8	-186.6
151.0	0.0	0.0	-18.3	-80.1	-11.3	-206.9	0.9	-214.2	-7.3	-203.0	4.8	-210.2	-81.4	-12.6	-208.2	-0.5	-215.5	-8.6	-204.3	3.5	-211.6
152.0	0.0	0.0	-15.9	-84.2	-14.9	-229.5	-3.7	-236.1	-9.5	-224.2	1.6	-230.8	-93.9	-24.6	-239.2	-13.4	-245.9	-19.3	-233.9	-8.1	-240.5
153.0	0.0	0.0	-13.4	-85.6	-16.0	-246.9	-5.9	-252.3	-9.1	-240.1	0.9	-245.5	-100.3	-30.7	-261.7	-20.7	-267.1	-23.9	-254.9	-13.9	-260.3
154.0	0.0	0.0	-11.0	-84.5	-14.5	-259.6	-5.8	-263.3	-6.1	-251.2	2.6	-254.9	-101.7	-31.8	-276.8	-23.1	-280.5	-23.4	-268.4	-14.7	-272.1
155.0	0.0	0.0	-8.6	-81.1	-10.8	-267.7	-3.6	-269.3	-0.7	-257.6	6.5	-259.2	-98.8	-28.5	-285.5	-21.3	-287.1	-18.4	-275.4	-11.2	-277.0
156.0	0.0	0.0	-6.1	-75.7	-4.9	-271.8	1.7	-270.9	6.8	-260.0	13.4	-259.1	-92.5	-21.7	-288.6	-15.1	-287.7	-10.0	-276.8	-3.4	-276.0
157.0	0.0	0.0	-3.7	-68.4	2.7	-271.4	10.6	-267.7	16.1	-257.9	24.0	-254.3	-82.9	-11.8	-285.8	-3.9	-282.1	1.7	-272.4	9.5	-268.7
158.0	0.0	0.0	-1.2	-59.3	11.7	-266.1	21.2	-263.3	26.7	-251.1	36.2	-248.3	-70.1	0.9	-276.8	10.4	-274.0	15.9	-261.9	25.4	-259.0
159.0	0.0	0.0	1.2	-48.3	21.9	-254.8	33.3	-253.3	38.2	-238.6	49.6	-237.0	-53.9	16.2	-260.5	27.7	-258.9	32.5	-244.2	44.0	-242.6
160.0	0.0	0.0	3.7	-35.2	32.9	-236.3	46.6	-235.9	50.0	-219.2	63.7	-218.8	-34.3	33.7	-235.5	47.4	-235.1	50.8	-218.4	64.5	-217.9
161.0	0.0	0.0	6.1	-19.4	44.5	-207.9	61.2	-208.3	61.7	-190.7	78.4	-191.1	-10.3	53.5	-198.9	70.2	-199.2	70.7	-181.7	87.4	-182.1
162.0	0.0	0.0	8.6	-0.2	56.4	-166.2	76.7	-167.1	72.5	-150.1	92.8	-151.0	19.1	75.7	-146.9	95.9	-147.9	91.8	-130.8	112.0	-131.8
163.0	0.0	0.0	11.0	23.4	68.5	-131.5	92.3	-132.7	81.7	-118.3	105.5	-119.4	54.8	99.9	-100.0	123.7	-101.2	113.2	-86.8	137.0	-88.0
164.0	0.0	0.0	13.5	52.8	121.3	-85.8	148.7	-86.9	129.1	-78.0	156.5	-79.1	98.9	167.4	-39.8	194.7	-40.9	175.2	-32.0	202.5	-33.1
165.0	0.0	0.0	15.9	90.0	200.0	-19.4	230.9	-20.0	198.8	-20.6	229.7	-21.2	153.2	263.1	43.8	294.1	43.1	262.0	42.6	292.9	41.9
166.0	0.0	0.0	18.3	139.6	309.7	77.8	346.0	78.8	293.4	61.5	329.6	62.5	222.5	392.7	160.8	429.0	161.8	376.4	144.5	412.6	145.5
166.5	0.0	0.0	19.6	146.5	315.1	84.8	352.7	85.8	298.8	68.5	336.4	69.5	230.9	399.4	169.1	437.1	170.1	383.1	152.8	420.8	153.8
167.5	0.0	0.0	22.0	163.6	327.8	101.8	369.1	102.9	311.5	85.5	352.7	86.5	251.8	416.1	190.1	457.3	191.1	399.8	173.8	441.0	174.8
168.5	0.0	0.0	24.5	180.7	340.6	118.9	385.4	120.0	324.3	102.6	369.1	103.6	272.9	432.8	211.1	477.6	212.1	416.5	194.8	461.3	195.8
169.5	0.0	0.0	27.0	197.8	353.4	136.1	401.9	137.1	337.1	119.8	385.6	120.8	293.9	449.5	232.2	498.0	233.2	433.2	215.8	481.6	216.9
170.5	0.0	0.0	29.4	214.9	366.2	153.2	418.2	154.2	349.9	136.8	401.9	137.9	314.9	466.2	253.2	518.3	254.2	449.9	236.9	502.0	237.9

ESFUERZOS MÁXIMOS DE TORSIÓN - ELU



Obtención de los Coeficientes de Excentricidad más Desfavorables

Obtención de los Coeficientes de Excentricidad más Desfavorables

Para obtener la posición, en sentido transversal, en la que se dispondrán los trenes se ha empleado un modelo en el que la losa está representada mediante una malla de elementos finitos y las vigas quedan representadas mediante elementos barra. Las barras están unidas a la losa mediante uniones rígidas.

Este modelo es semejante al que se ha utilizado para calibrar el emparrillado y será explicado con más detalle en el apartado siguiente.

El tren de cargas aplicado ha sido el LM-71 centrado en el tercer vano. Transversalmente se ha colocado en las diferentes posiciones posibles, descritas en el segundo apartado de la presente memoria. Estas son:

Peralte - Fuerza Centrífuga + Ripado
Peralte - Fuerza Centrífuga - Ripado
Peralte + Ripado

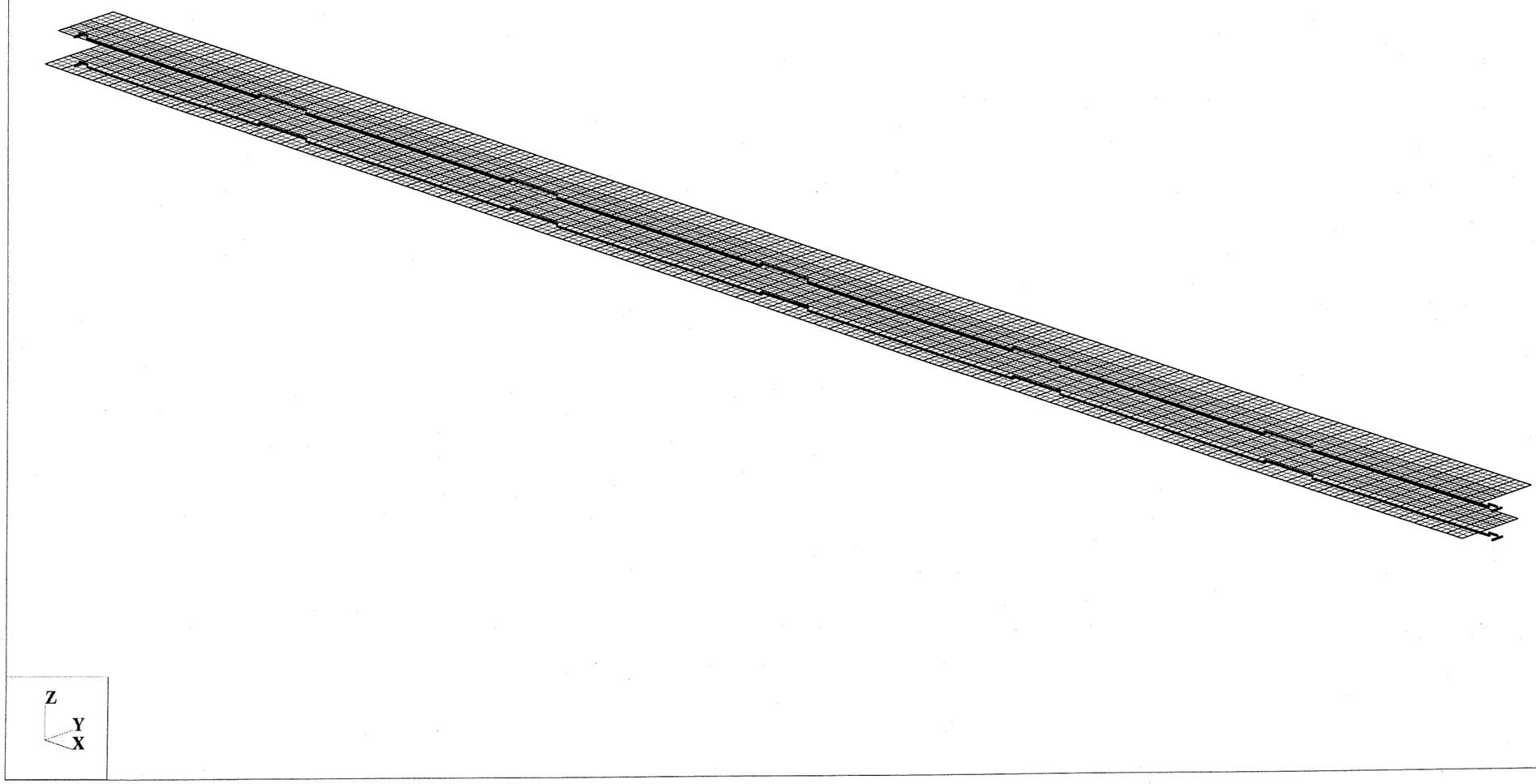
Como se podrá observar en los resultados adjuntos, los máximos esfuerzos se dan en la viga derecha (mirando en dirección de avance del p.k.) en los casos:

Tren en vía derecha con excentricidad debida a:	Peralte + Ripado
Tren en vía izquierda con excentricidad debida a:	Peralte + Ripado

Por tanto, la viga objeto de estudio será la viga derecha y, los trenes aplicados al modelo general, estarán afectados por los coeficientes de excentricidad definidos por la combinación: Peralte + Ripado.

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Modelo de Cálculo Comparación Excentricidades



Cargas Aplicadas

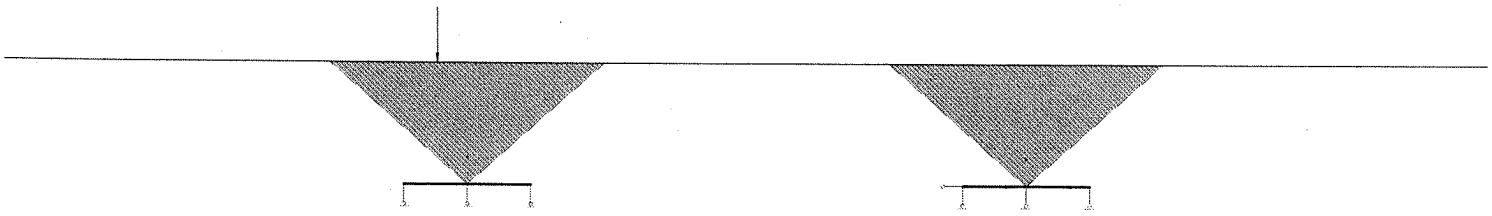
Caso	Nombre del caso	Tipo de carga	Valores de carga
2	Per-Centr+Rip - Vía Dcha	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=5,330(m) N1Y=-2,543(m) N1Z=0,0(m) N2X=76,130(m) N2Y=-2,543(m) N2Z=0,0(m)
2	Per-Centr+Rip - Vía Dcha	(EF) lineal 2p (3D)	FZ1=-15,625(T/m) FZ2=-15,625(T/m) N1X=76,130(m) N1Y=-2,543(m) N1Z=0,0(m) N2X=82,530(m) N2Y=-2,543(m) N2Z=0,0(m)
2	Per-Centr+Rip - Vía Dcha	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=82,530(m) N1Y=-2,543(m) N1Z=0,0(m) N2X=185,330(m) N2Y=-2,543(m) N2Z=0,0(m)
3	Per-Centr-Rip - Vía Dcha	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=5,330(m) N1Y=-1,787(m) N1Z=0,0(m) N2X=76,130(m) N2Y=-1,787(m) N2Z=0,0(m)
3	Per-Centr-Rip - Vía Dcha	(EF) lineal 2p (3D)	FZ1=-15,625(T/m) FZ2=-15,625(T/m) N1X=76,130(m) N1Y=-1,787(m) N1Z=0,0(m) N2X=82,530(m) N2Y=-1,787(m) N2Z=0,0(m)
3	Per-Centr-Rip - Vía Dcha	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=82,530(m) N1Y=-1,787(m) N1Z=0,0(m) N2X=185,330(m) N2Y=-1,787(m) N2Z=0,0(m)
4	Per+Rip - Vía Dcha	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=82,530(m) N1Y=-2,929(m) N1Z=0,0(m) N2X=185,330(m) N2Y=-2,929(m) N2Z=0,0(m)
4	Per+Rip - Vía Dcha	(EF) lineal 2p (3D)	FZ1=-15,625(T/m) FZ2=-15,625(T/m) N1X=76,130(m) N1Y=-2,929(m) N1Z=0,0(m) N2X=82,530(m) N2Y=-2,929(m) N2Z=0,0(m)
4	Per+Rip - Vía Dcha	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=5,330(m) N1Y=-2,929(m) N1Z=0,0(m) N2X=76,130(m) N2Y=-2,929(m) N2Z=0,0(m)
5	Per-Centr+Rip - Vía Izq	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=0,0(m) N1Y=2,154(m) N1Z=0,0(m) N2X=70,800(m) N2Y=2,154(m) N2Z=0,0(m)
5	Per-Centr+Rip - Vía Izq	(EF) lineal 2p (3D)	FZ1=-15,625(T/m) FZ2=-15,625(T/m) N1X=70,800(m) N1Y=2,154(m) N1Z=0,0(m) N2X=77,200(m) N2Y=2,154(m) N2Z=0,0(m)
5	Per-Centr+Rip - Vía Izq	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=77,200(m) N1Y=2,154(m) N1Z=0,0(m) N2X=180,000(m) N2Y=2,154(m) N2Z=0,0(m)
6	Per-Centr-Rip - Vía Izq	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=0,0(m) N1Y=2,913(m) N1Z=0,0(m) N2X=70,800(m) N2Y=2,913(m) N2Z=0,0(m)
6	Per-Centr-Rip - Vía Izq	(EF) lineal 2p (3D)	FZ1=-15,625(T/m) FZ2=-15,625(T/m) N1X=70,800(m) N1Y=2,913(m) N1Z=0,0(m) N2X=77,200(m) N2Y=2,913(m) N2Z=0,0(m)
6	Per-Centr-Rip - Vía Izq	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=77,200(m) N1Y=2,913(m) N1Z=0,0(m) N2X=180,000(m) N2Y=2,913(m) N2Z=0,0(m)
7	Per+Rip - Vía Izq	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=0,0(m) N1Y=1,771(m) N1Z=0,0(m) N2X=70,800(m) N2Y=1,771(m) N2Z=0,0(m)
7	Per+Rip - Vía Izq	(EF) lineal 2p (3D)	FZ1=-15,625(T/m) FZ2=-15,625(T/m) N1X=70,800(m) N1Y=1,771(m) N1Z=0,0(m) N2X=77,200(m) N2Y=1,771(m) N2Z=0,0(m)
7	Per+Rip - Vía Izq	(EF) lineal 2p (3D)	FZ1=-8,000(T/m) FZ2=-8,000(T/m) N1X=77,200(m) N1Y=1,771(m) N1Z=0,0(m) N2X=180,000(m) N2Y=1,771(m) N2Z=0,0(m)

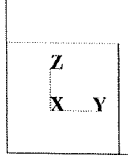
Combinación de Cargas

Combinación	Nombre	Definición
11 (C)	C1	(2+5)*1.00
12 (C)	C2	(2+6)*1.00
13 (C)	C3	(2+7)*1.00
14 (C)	C4	(3+5)*1.00
15 (C)	C5	(3+6)*1.00
16 (C)	C6	(3+7)*1.00
17 (C)	C7	(4+5)*1.00
18 (C)	C8	(4+6)*1.00
19 (C)	C9	(4+7)*1.00

A continuación se adjuntan unos gráficos en los que están representadas una sección transversal del modelo y las diferentes cargas aplicadas al mismo.

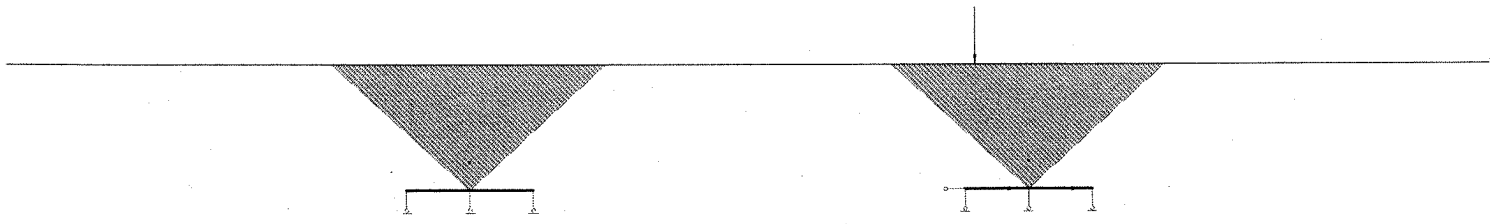
Tren con Peralte + Ripado en Vía Derecha

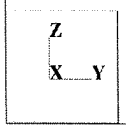




casos: 4 (Per+Rip - Vía Dcha)
T/m

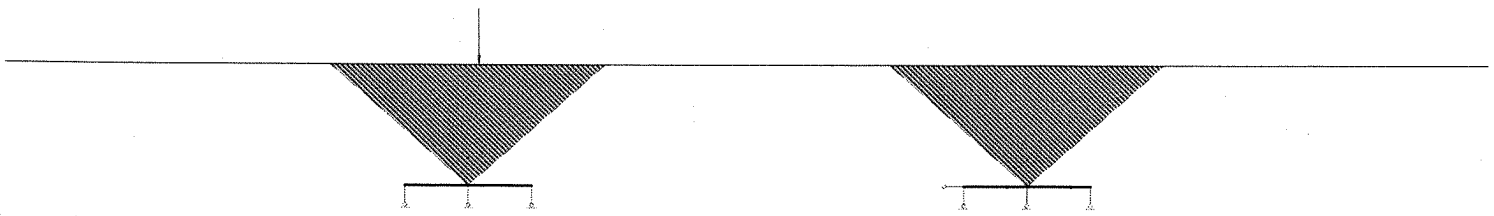
Tren con Peralte - Centrífuga + Ripado en Vía Izquierda

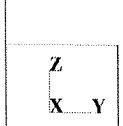




casos: 5 (Per-Centr+Rip - Vía Izq)
T/m

Tren con Peralte - Centrífuga + Ripado en Vía Derecha

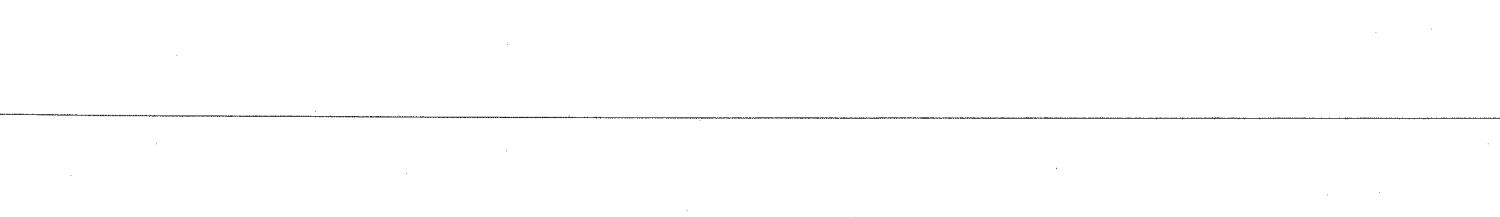


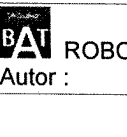


casos: 2 (Per-Centr+Rip - Vía Dcha)
T/m

ROBOT v 16.1.1
Autor :
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Archivo : **Comparación Ripado.rtd**

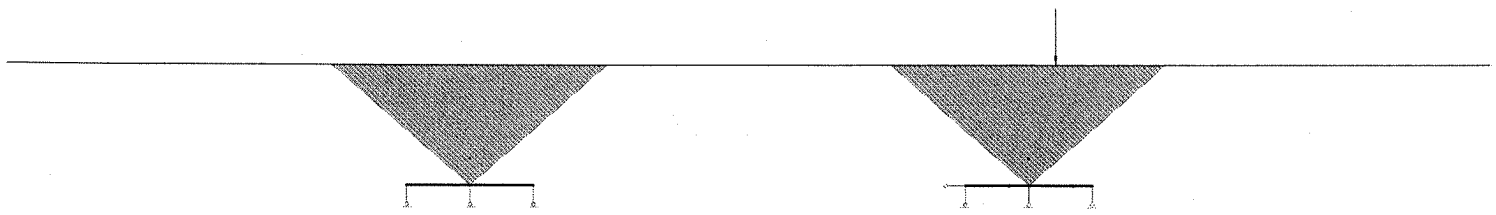
Tren con Peralte - Centrífuga - Ripado en Vía Derecha





casos: 3 (Per-Centr-Rip - Vía Dcha)
T/m

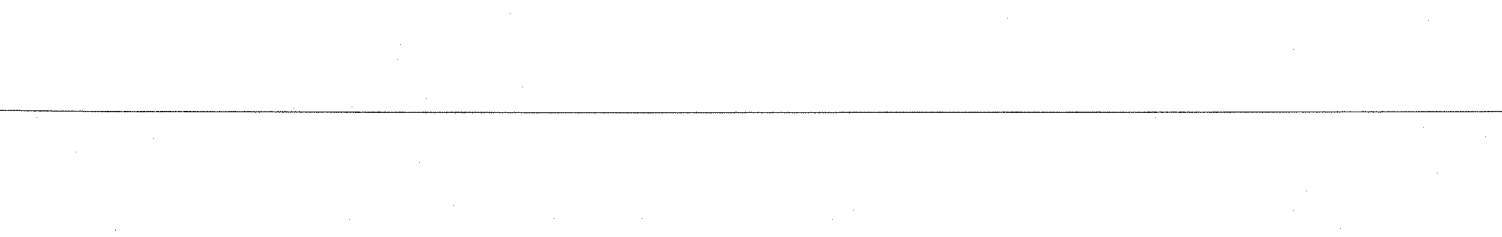
Tren con Peralte - Centrífuga - Ripado en Vía Izquierda



Z
X Y

casos: 6 (Per-Centr-Rip - Vía Izq)
T/m

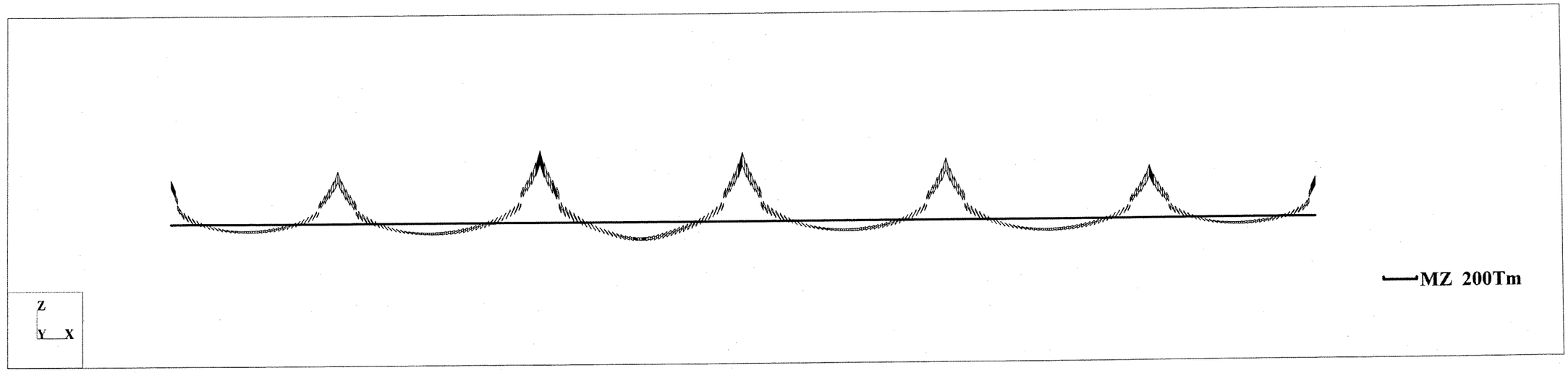
Tren con Peralte + Ripado en Vía Izquierda



Z
X Y

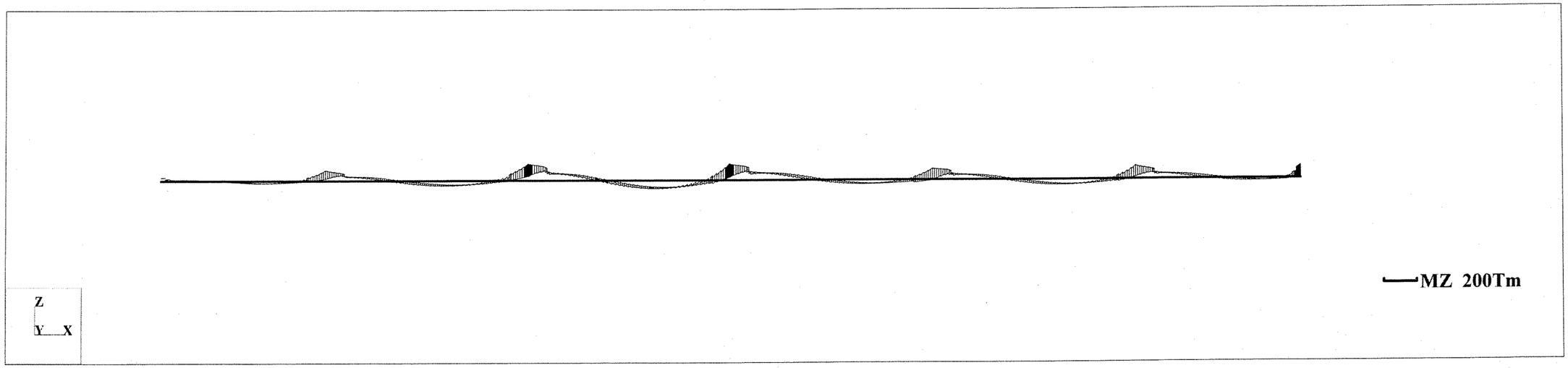
casos: 7 (Per+Rip - Vía Izq)
T/m

Envolvente de Esfuerzos - Tren sobre vía Derecha - Vía Derecha



	MZ (Tm)
Típo (color) de línea	
Escala : (cm) =	305.915
MAX	441.546
Barra	2592
Punto	x = 0.0000
Caso	4
MIN	-112.897
Barra	2615
Punto	x = 1.0000
Caso	4

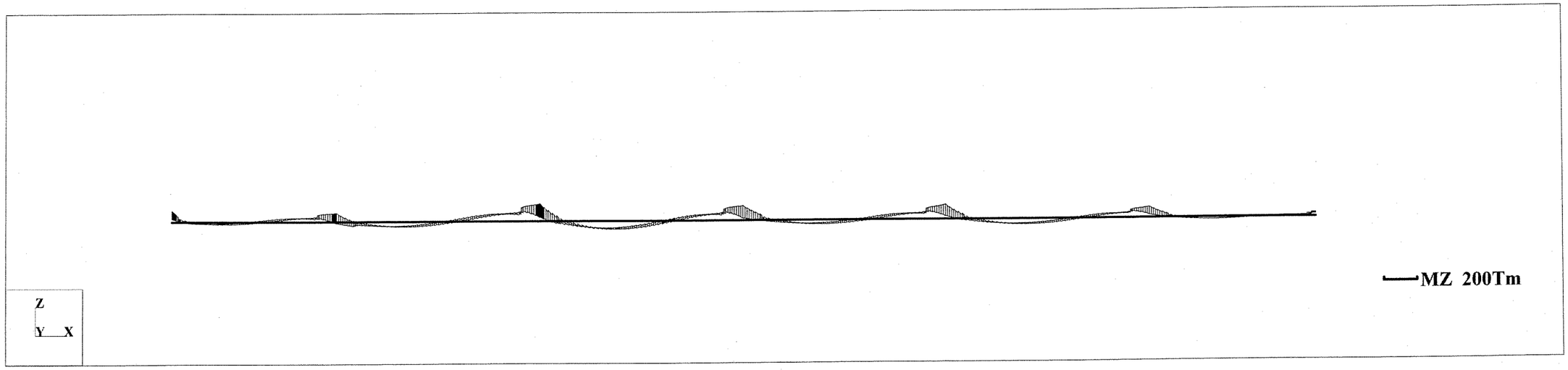
Envolvente de Esfuerzos - Tren sobre vía Derecha - Vía Izquierda



	MZ (Tm)
Típo (color) de línea	
Escala : (cm) =	305.915
MAX	102.794
Barra	2091
Punto	x = 1.0000
Caso	3
MIN	-50.763
Barra	2125
Punto	x = 0.0000
Caso	3

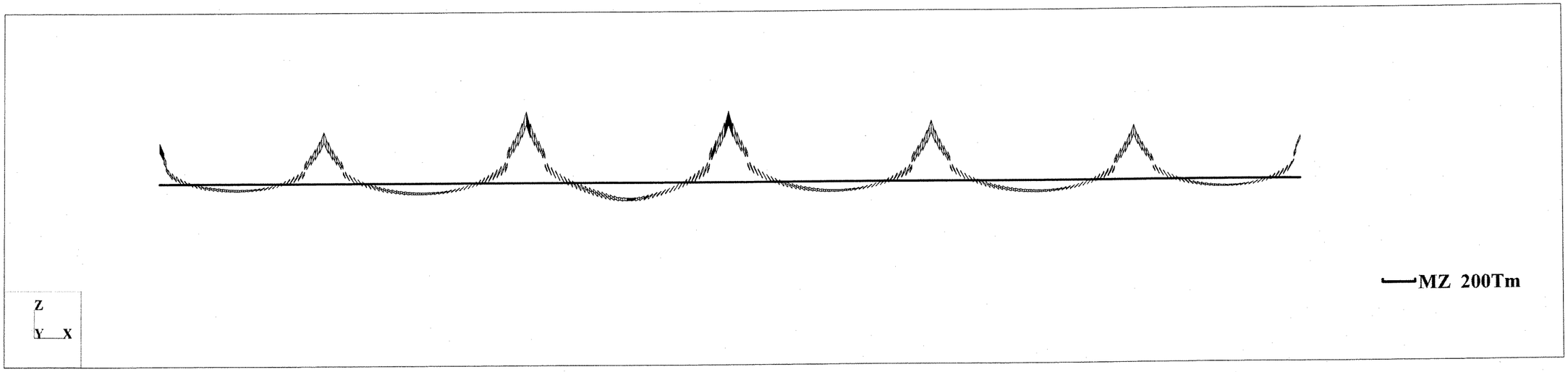
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Envolvente de Esfuerzos - Tren sobre vía Izquierda - Vía Derecha



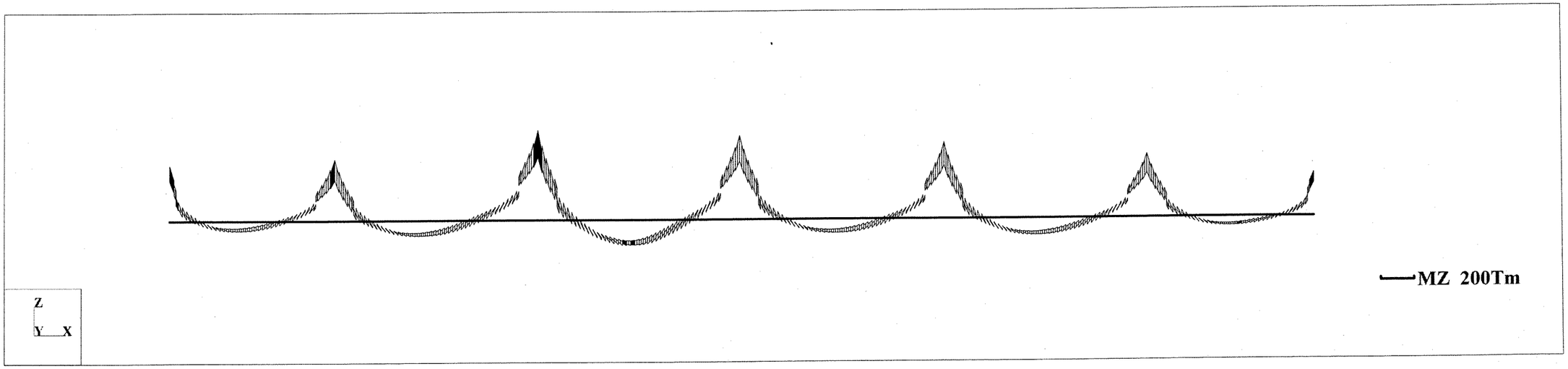
	MZ (Tm)
Típo (color) de línea	
Escala : (cm) =	305.915
MAX	108.864
Barra	2592
Punto	x = 0.0000
Caso	7
MIN	-51.052
Barra	2609
Punto	x = 1.0000
Caso	7

Envolvente de Esfuerzos - Tren sobre vía Izquierda - Vía Izquierda



	MZ (Tm)
Típo (color) de línea	
Escala : (cm) =	305.915
MAX	434.245
Barra	2092
Punto	x = 0.0000
Caso	6
MIN	-113.055
Barra	2118
Punto	x = 0.0000
Caso	6

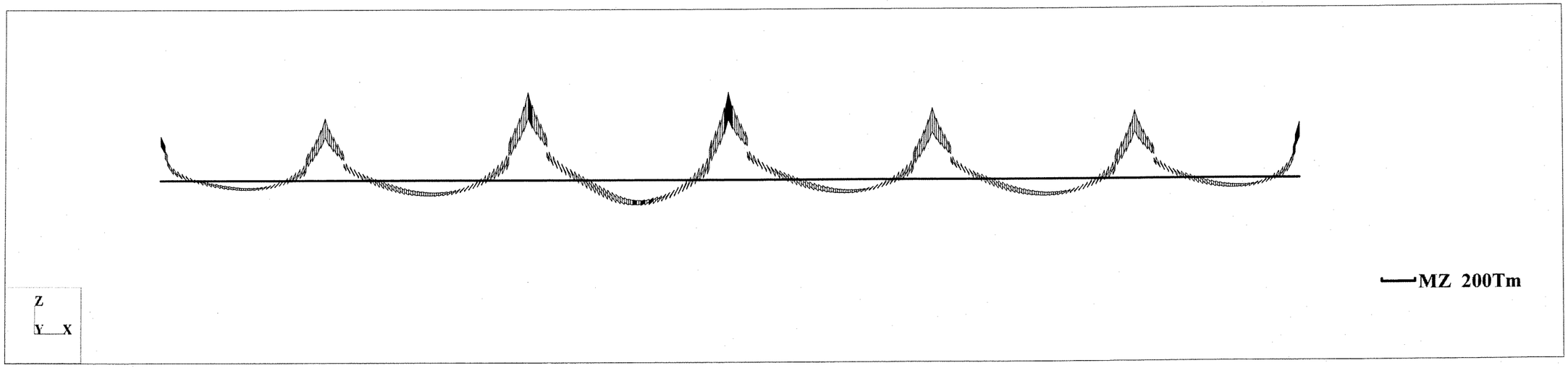
Envolvente de Esfuerzos - Tren sobre ambas vías - Vía Derecha



	MZ (Tm)
Típo (color) de línea	
Escala : (cm) =	305.915
MAX	550.410
Barra	2592
Punto	x = 0.0000
Caso	19
MIN	-155.740
Barra	2613
Punto	x = 1.0000
Caso	19

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Envolvente de Esfuerzos - Tren sobre ambas vías - Vía Izquierda



	MZ (Tm)
Típo (color) de línea	
Escala : (cm) =	305.915
MAX	535.550
Barra	2092
Punto	x = 0.0000
Caso	15
MIN	-155.140
Barra	2120
Punto	x = 0.0000
Caso	15

3.2. CÁLCULO ESTRUCTURAL CON MODELO DE ELEMENTOS FINITOS

3.2.1. MODELOS DE CÁLCULO

Los modelos de elementos finitos utilizados en el cálculo del viaducto han servido para calibarar el modelo de emparrillado antes expuesto y para realizar el estudio de efectos no representados con un modelo de barras.

Para calibrar el emparrillado se ha usado un modelo mixto de elementos finitos y barras. La losa se ha modelado mediante una lámina de espesor variable de elementos finitos. Las vigas se han modelado mediante elementos barra. La unión de las vigas a la losa se ha realizado mediante uniones rígidas.

Las barras empleadas en el modelo tienen las características mecánicas de las vigas, diferenciando las zonas sobre pilas y en centro de luz. Para definir la inercia a torsión de las vigas se ha considerado la existencia de la losa, obteniendo de este modo una sección cerrada tal como ocurre en la realidad.

Dada la poca curvatura que presenta el viaducto, el radio de curvatura es de 4500 metros, el modelo se ha desarrollado con una alineación recta.

Los apoyos se han dispuesto condicionando los movimientos reales de los aparatos tipo POT existentes en el viaducto. En estribos, se han empotrado los giros a torsión para simular el efecto de las riostras.

Este modelo ha sido el que se ha utilizado para obtener los coeficiente de excentricidad más desfavorables en la estructura.

En las páginas adjuntas se pueden ver las características del modelo con más detalle.

El otro modelo de elementos finitos con el que se ha trabajado ha servido, básicamente, para obtener los esfuerzos de flexión transversal. Estos efectos no quedan representados con un modelo de vigas.

En este modelo se ha representado la totalidad de la sección transversal del viaducto mediante elementos lámina (lo llamaremos modelo completo de elementos finitos). Únicamente se han modelado los dos primeros vanos del viaducto para reducir, de este modo, el coste computacional del modelo.

Para definir de la manera más exacta posible las condiciones de contorno del viaducto, el el final del tablero definido con elementos lámina se ha unido, mediante uniones rígidas, al emparrillado mostrado en el punto 3.1 de la presente memoria.

Los apoyos se han dispuesto condicionando los movimientos reales de los aparatos de apoyo tipo POT existentes en el viaducto.

La descripción de este modelo se puede ver con mayor detalle en las páginas adjuntas.

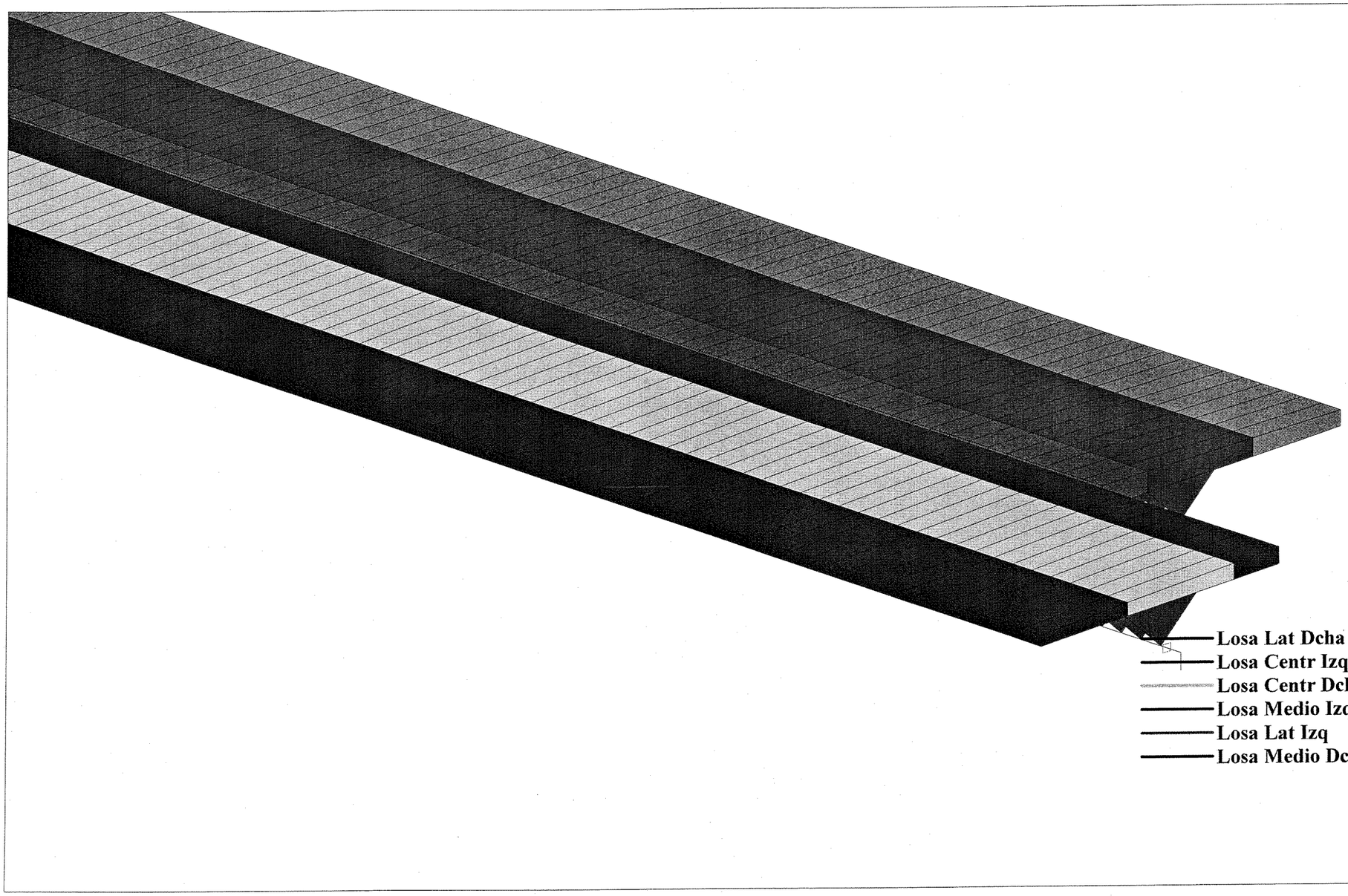
MODELO MIXTO DE ELEMENTOS FINITOS

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Modelo de Cálculo

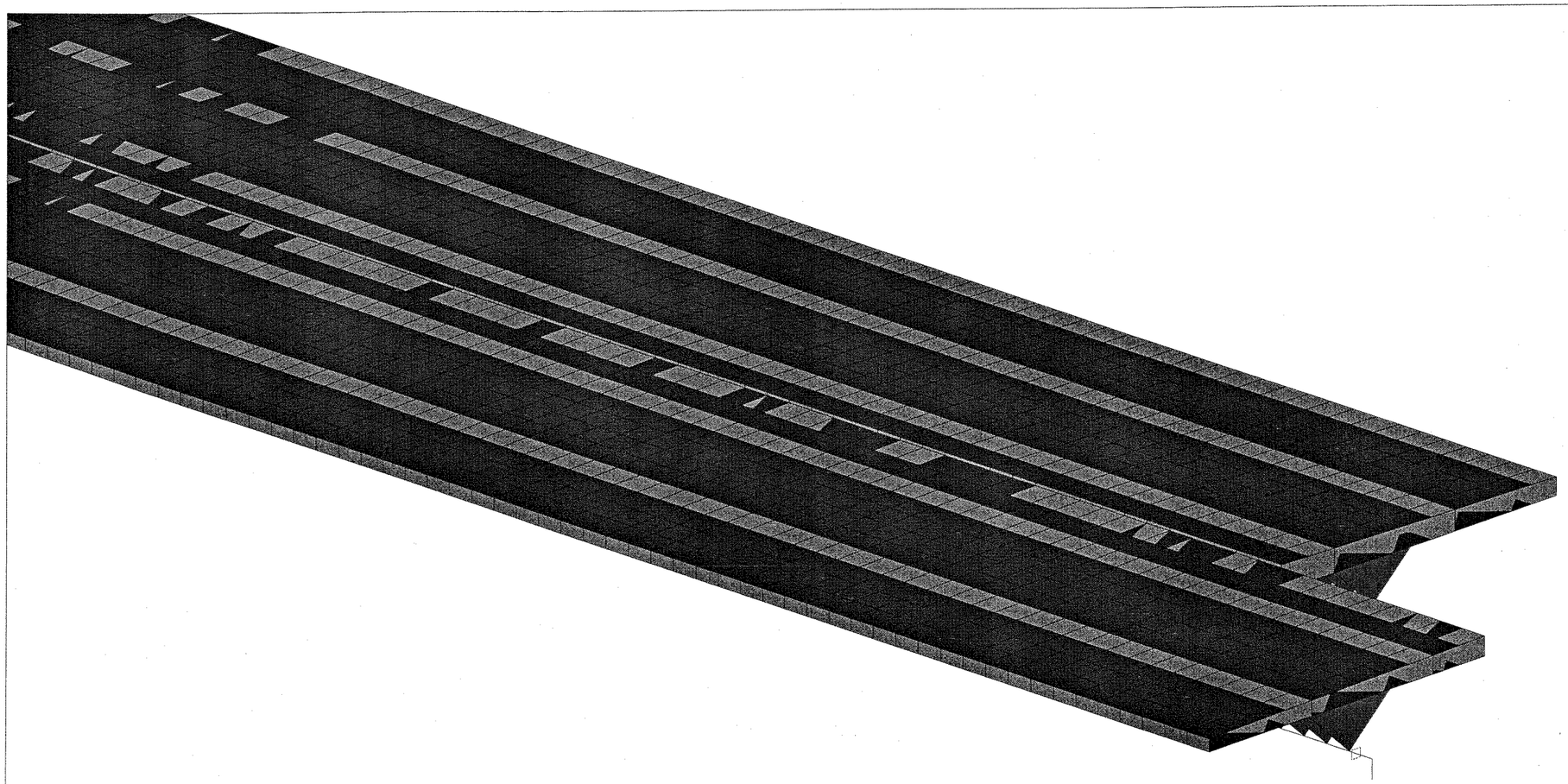


Detalle Modelo de Cálculo MEF



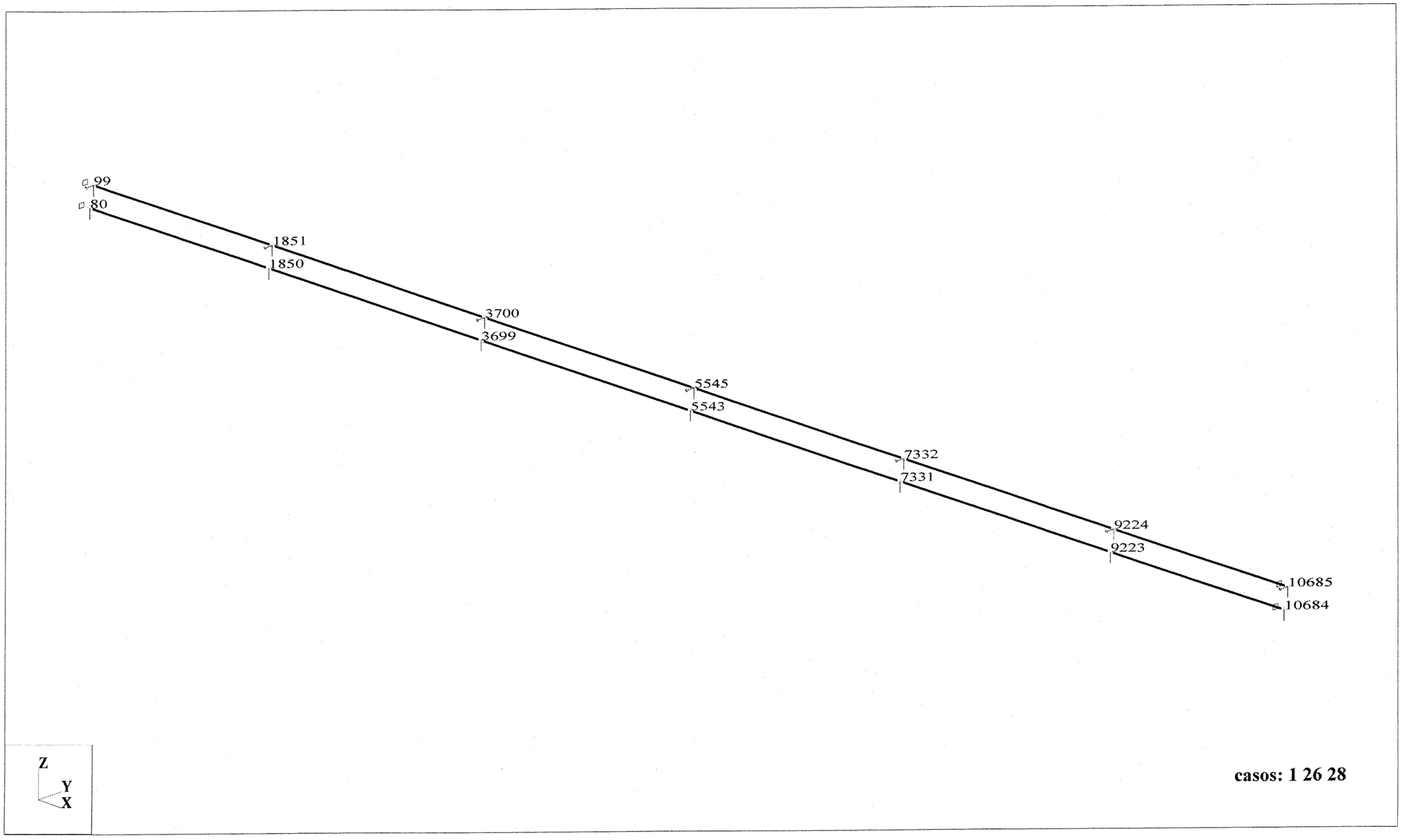
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Densidad Malla Modelo de Cálculo MEF



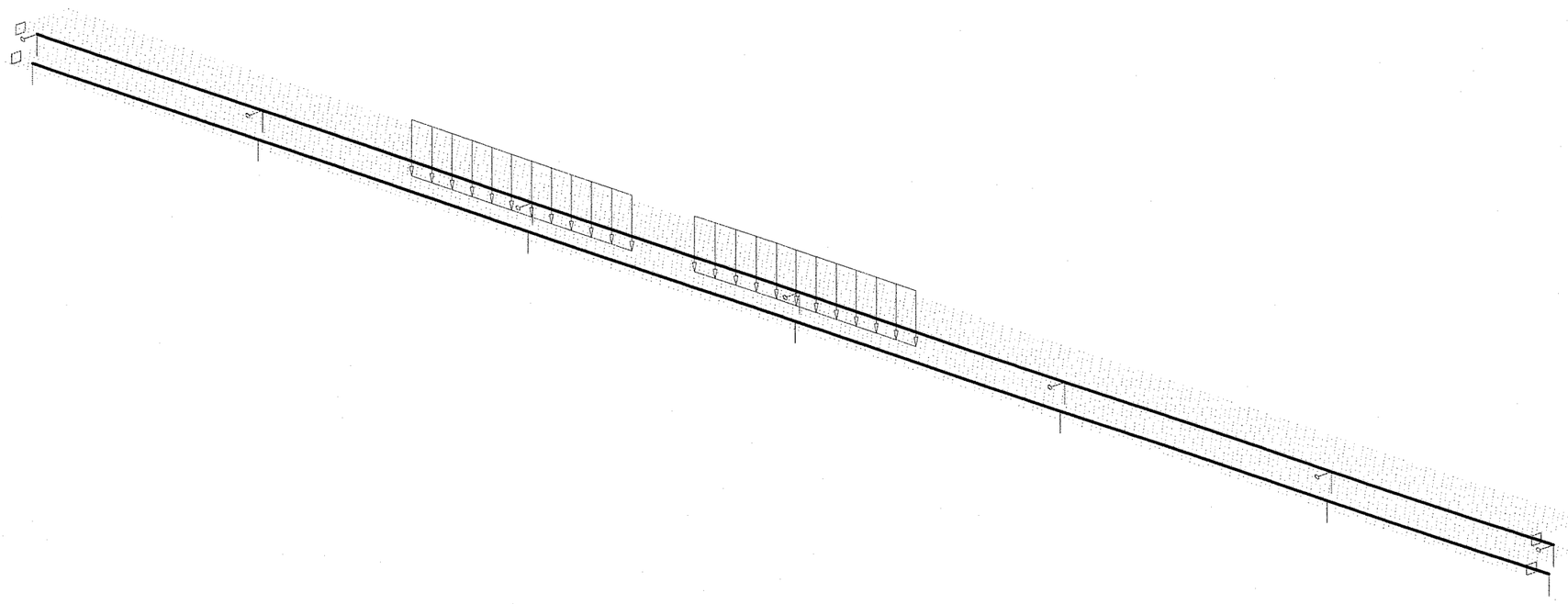
casos: 28 (SW2 - Dcha - T4)
T/m

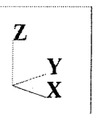
Numeración de los Nudos sobre los que se han colocado los Apoyos



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Cargas Aplicadas - SW2 Viga Derecha





casos: 28 (SW2 - Dcha - T4)
T/m

Nudos Pertenecientes a las Barras que Componen la Estructura

Nudo	X (m)	Y (m)	Z (m)
80	0.0	-2.500	0.0
81	0.500	-2.500	0.0
82	1.000	-2.500	0.0
83	1.500	-2.500	0.0
84	2.000	-2.500	0.0
85	2.500	-2.500	0.0
86	3.000	-2.500	0.0
87	3.500	-2.500	0.0
88	4.000	-2.500	0.0
89	4.500	-2.500	0.0
90	-0.500	2.500	0.0
91	0.0	2.500	0.0
92	-1.000	2.500	0.0
93	-1.500	2.500	0.0
94	-2.000	2.500	0.0
95	-2.500	2.500	0.0
96	-3.000	2.500	0.0
97	-3.500	2.500	0.0
98	-4.000	2.500	0.0
99	-4.500	2.500	0.0
611	5.000	-2.500	0.0
612	5.500	-2.500	0.0
613	0.500	2.500	0.0
614	1.000	2.500	0.0
669	6.000	-2.500	0.0
670	1.500	2.500	0.0
698	6.500	-2.500	0.0
699	2.000	2.500	0.0
727	7.000	-2.500	0.0
728	2.500	2.500	0.0
756	7.500	-2.500	0.0
757	3.000	2.500	0.0
785	8.000	-2.500	0.0
786	3.500	2.500	0.0
814	8.500	-2.500	0.0
815	4.000	2.500	0.0
850	9.000	-2.500	0.0
851	4.500	2.500	0.0
886	9.500	-2.500	0.0
887	10.000	-2.500	0.0
888	5.000	2.500	0.0
889	5.500	2.500	0.0
944	10.500	-2.500	0.0
945	6.000	2.500	0.0
973	11.000	-2.500	0.0
974	6.500	2.500	0.0
1002	11.500	-2.500	0.0
1003	7.000	2.500	0.0
1031	12.000	-2.500	0.0
1032	7.500	2.500	0.0
1060	12.500	-2.500	0.0
1061	8.000	2.500	0.0
1089	13.000	-2.500	0.0
1090	8.500	2.500	0.0
1125	13.500	-2.500	0.0
1126	9.000	2.500	0.0
1155	14.000	-2.500	0.0
1156	14.500	-2.500	0.0
1157	9.500	2.500	0.0
1158	10.000	2.500	0.0
1213	15.000	-2.500	0.0
1214	10.500	2.500	0.0
1242	15.500	-2.500	0.0
1243	11.000	2.500	0.0
1271	16.000	-2.500	0.0
1272	11.500	2.500	0.0
1300	16.500	-2.500	0.0
1301	12.000	2.500	0.0
1329	17.000	-2.500	0.0
1330	12.500	2.500	0.0
1358	17.500	-2.500	0.0
1359	13.000	2.500	0.0
1394	18.000	-2.500	0.0
1395	13.500	2.500	0.0
1436	18.500	-2.500	0.0
1437	19.000	-2.500	0.0
1438	14.000	2.500	0.0
1439	14.500	2.500	0.0
1494	19.500	-2.500	0.0
1495	15.000	2.500	0.0
1523	20.000	-2.500	0.0
1524	15.500	2.500	0.0
1552	20.500	-2.500	0.0
1553	16.000	2.500	0.0
1581	21.000	-2.500	0.0
1582	16.500	2.500	0.0
1610	21.500	-2.500	0.0
1611	17.000	2.500	0.0
1639	22.000	-2.500	0.0
1640	17.500	2.500	0.0
1675	22.500	-2.500	0.0
1676	18.000	2.500	0.0
1705	23.000	-2.500	0.0
1706	23.500	-2.500	0.0
1707	18.500	2.500	0.0
1708	19.000	2.500	0.0
1763	24.000	-2.500	0.0
1764	19.500	2.500	0.0
1792	24.500	-2.500	0.0
1793	20.000	2.500	0.0
1821	25.000	-2.500	0.0
1822	20.500	2.500	0.0
1850	25.500	-2.500	0.0
1851	21.000	2.500	0.0
1879	26.000	-2.500	0.0
1880	21.500	2.500	0.0
1908	26.500	-2.500	0.0
1909	22.000	2.500	0.0
1944	27.000	-2.500	0.0
1945	22.500	2.500	0.0
1974	27.500	-2.500	0.0
1975	28.000	-2.500	0.0
1976	23.000	2.500	0.0
1977	23.500	2.500	0.0
2032	28.500	-2.500	0.0
2033	24.000	2.500	0.0
2061	29.000	-2.500	0.0
2062	24.500	2.500	0.0
2090	29.500	-2.500	0.0
2091	25.000	2.500	0.0
2119	30.000	-2.500	0.0
2120	25.500	2.500	0.0
2148	30.500	-2.500	0.0
2149	26.000	2.500	0.0
2177	31.000	-2.500	0.0
2178	26.500	2.500	0.0
2213	31.500	-2.500	0.0
2214	27.000	2.500	0.0
2243	32.000	-2.500	0.0
2244	32.500	-2.500	0.0
2245	27.500	2.500	0.0
2246	28.000	2.500	0.0
2301	33.000	-2.500	0.0
2302	28.500	2.500	0.0
2330	33.500	-2.500	0.0
2331	29.000	2.500	0.0
2359	34.000	-2.500	0.0
2360	29.500	2.500	0.0
2388	34.500	-2.500	0.0
2389	30.000	2.500	0.0
2417	35.000	-2.500	0.0
2418	30.500	2.500	0.0
2446	35.500	-2.500	0.0
2447	31.000	2.500	0.0
2482	36.000	-2.500	0.0
2483	31.500	2.500	0.0
2536	36.500	-2.500	0.0
2537	37.000	-2.500	0.0
2538	32.000	2.500	0.0
2539	32.500	2.500	0.0
2594	37.500	-2.500	0.0
2595	33.000	2.500	0.0
2623	38.000	-2.500	0.0
2624	33.500	2.500	0.0
2652	38.500	-2.500	0.0
2653	34.000	2.500	0.0
2681	39.000	-2.500	0.0
2682	34.500	2.500	0.0
2710	39.500	-2.500	0.0
2711	35.000	2.500	0.0
2739	40.000	-2.500	0.0
2740	35.500	2.500	0.0
2775	40.500	-2.500	0.0
2776	36.000	2.500	0.0
2805	41.000	-2.500	0.0
2806	41.500	-2.500	0.0
2807	36.500	2.500	0.0
2808	37.000	2.500	0.0
2863	42.000	-2.500	0.0
2864	37.500	2.500	0.0
2892	42.500	-2.500	0.0
2893	38.000	2.500	0.0
2921	43.000	-2.500	0.0
2922	38.500	2.500	0.0
2950	43.500	-2.500	0.0
2951	39.000	2.500	0.0
2979	44.000	-2.500	0.0
2980	39.500	2.500	0.0
3008	44.500	-2.500	0.0
3009	40.000	2.500	0.0
3044	45.000	-2.500	0.0
3045	40.500	2.500	0.0
3074	45.500	-2.500	0.0
3075	46.000	-2.500	0.0
3076	41.000	2.500	0.0
3077	41.500	2.500	0.0
3132	46.500	-2.500	0.0
3133	42.000	2.500	0.0
3161	47.000	-2.500	0.0
3162	42.500	2.500	0.0
3190	47.500	-2.500	0.0
3191	43.000	2.500	0.0
3219	48.000	-2.500	0.0
3220	43.500	2.500	0.0
3248	48.500	-2.500	0.0
3249	44.000	2.500	0.0
3277	49.000	-2.500	0.0
3278	44.500	2.500	0.0
3313	49.500	-2.500	0.0
3314	45.000	2.500	0.0
3343	50.000	-2.500	0.0
3344	50.500	-2.500	0.0
3345	45.500	2.500	0.0
3346	46.000	2.500	0.0
3401	51.000	-2.500	0.0
3402	46.500	2.500	0.0
3430	51.500	-2.500	0.0
3431	47.000	2.500	0.0
3459	52.000	-2.500	0.0
3460	47.500	2.500	0.0
3488	52.500	-2.500	0.0
3489	48.000	2.500	0.0
3517	53.000	-2.500	0.0
3518	48.500	2.500	0.0
3546	53.500	-2.500	0.0
3547	49.000	2.500	0.0
3582	54.000	-2.500	0.0
3583	49.500	2.500	0.0
3612	54.500	-2.500	0.0
3613	55.000	-2.500	0.0
3614	50.000	2.500	0.0
3615	50.500	2.500	0.0
3670	55.500	-2.500	0.0
3671	51.000	2.500	0.0
3699	56.000	-2.500	0.0
3700	51.500	2.500	0.0
3728	56.500	-2.500	0.0
3729	52.000	2.500	0.0
3757	57.000	-2.500	0.0
3758	52.500	2.500	0.0
3786	57.500	-2.500	0.0
3787	53.000	2.500	0.0
3815	58.000	-2.500	0.0

3816	53.500	2.500	0.0
3851	58.500	-2.500	0.0
3852	54.000	2.500	0.0
3881	59.000	-2.500	0.0
3882	59.500	-2.500	0.0
3883	54.500	2.500	0.0
3884	55.000	2.500	0.0
3939	60.000	-2.500	0.0
3940	55.500	2.500	0.0
3968	60.500	-2.500	0.0
3969	56.000	2.500	0.0
3997	61.000	-2.500	0.0
3998	56.500	2.500	0.0
4026	61.500	-2.500	0.0
4027	57.000	2.500	0.0
4055	62.000	-2.500	0.0
4056	57.500	2.500	0.0
4084	62.500	-2.500	0.0
4085	58.000	2.500	0.0
4120	63.000	-2.500	0.0
4121	58.500	2.500	0.0
4150	63.500	-2.500	0.0
4151	64.000	-2.500	0.0
4152	59.000	2.500	0.0
4153	59.500	2.500	0.0
4208	64.500	-2.500	0.0
4209	60.000	2.500	0.0
4237	65.000	-2.500	0.0
4238	60.500	2.500	0.0
4266	65.500	-2.500	0.0
4267	61.000	2.500	0.0
4295	66.000	-2.500	0.0
4296	61.500	2.500	0.0
4324	66.500	-2.500	0.0
4325	62.000	2.500	0.0
4353	67.000	-2.500	0.0
4354	62.500	2.500	0.0
4389	67.500	-2.500	0.0
4390	63.000	2.500	0.0
4419	68.000	-2.500	0.0
4420	68.500	-2.500	0.0
4421	63.500	2.500	0.0
4422	64.000	2.500	0.0
4477	69.000	-2.500	0.0
4478	64.500	2.500	0.0
4506	69.500	-2.500	0.0
4507	65.000	2.500	0.0
4535	70.000	-2.500	0.0
4536	65.500	2.500	0.0
4564	70.500	-2.500	0.0
4565	66.000	2.500	0.0
4593	71.000	-2.500	0.0
4594	66.500	2.500	0.0
4622	71.500	-2.500	0.0
4623	67.000	2.500	0.0
4658	72.000	-2.500	0.0
4659	67.500	2.500	0.0
4736	72.500	-2.500	0.0
4737	73.000	-2.500	0.0
4738	68.000	2.500	0.0
4739	68.500	2.500	0.0
4794	73.500	-2.500	0.0
4795	69.000	2.500	0.0

4823	74.000	-2.500	0.0
4824	69.500	2.500	0.0
4852	74.500	-2.500	0.0
4853	70.000	2.500	0.0
4881	75.000	-2.500	0.0
4882	70.500	2.500	0.0
4910	75.500	-2.500	0.0
4911	71.000	2.500	0.0
4939	76.000	-2.500	0.0
4940	71.500	2.500	0.0
4975	76.500	-2.500	0.0
4976	72.000	2.500	0.0
5005	77.000	-2.500	0.0
5006	77.500	-2.500	0.0
5007	72.500	2.500	0.0
5008	73.000	2.500	0.0
5063	78.000	-2.500	0.0
5064	73.500	2.500	0.0
5092	78.500	-2.500	0.0
5093	74.000	2.500	0.0
5121	79.000	-2.500	0.0
5122	74.500	2.500	0.0
5150	79.500	-2.500	0.0
5151	75.000	2.500	0.0
5179	80.000	-2.500	0.0
5180	75.500	2.500	0.0
5208	80.500	-2.500	0.0
5209	76.000	2.500	0.0
5244	81.000	-2.500	0.0
5245	76.500	2.500	0.0
5274	81.500	-2.500	0.0
5275	82.000	-2.500	0.0
5276	77.000	2.500	0.0
5277	77.500	2.500	0.0
5332	82.500	-2.500	0.0
5333	78.000	2.500	0.0
5361	83.000	-2.500	0.0
5362	78.500	2.500	0.0
5390	83.500	-2.500	0.0
5391	79.000	2.500	0.0
5419	84.000	-2.500	0.0
5420	79.500	2.500	0.0
5448	84.500	-2.500	0.0
5449	80.000	2.500	0.0
5477	85.000	-2.500	0.0
5478	80.500	2.500	0.0
5513	85.500	-2.500	0.0
5514	81.000	2.500	0.0
5543	86.000	-2.500	0.0
5544	86.500	-2.500	0.0
5545	81.500	2.500	0.0
5546	82.000	2.500	0.0
5601	87.000	-2.500	0.0
5602	82.500	2.500	0.0
5630	87.500	-2.500	0.0
5631	83.000	2.500	0.0
5659	88.000	-2.500	0.0
5660	83.500	2.500	0.0
5688	88.500	-2.500	0.0
5689	84.000	2.500	0.0
5717	89.000	-2.500	0.0
5718	84.500	2.500	0.0
5746	89.500	-2.500	0.0

5747	85.000	2.500	0.0
5782	90.000	-2.500	0.0
5783	85.500	2.500	0.0
5812	90.500	-2.500	0.0
5813	91.000	-2.500	0.0
5814	86.000	2.500	0.0
5815	86.500	2.500	0.0
5870	91.500	-2.500	0.0
5871	87.000	2.500	0.0
5899	92.000	-2.500	0.0
5900	87.500	2.500	0.0
5928	92.500	-2.500	0.0
5929	88.000	2.500	0.0
5957	93.000	-2.500	0.0
5958	88.500	2.500	0.0
5986	93.500	-2.500	0.0
5987	89.000	2.500	0.0
6015	94.000	-2.500	0.0
6016	89.500	2.500	0.0
6051	94.500	-2.500	0.0
6052	90.000	2.500	0.0
6081	95.000	-2.500	0.0
6082	95.500	-2.500	0.0
6083	90.500	2.500	0.0
6084	91.000	2.500	0.0
6139	96.000	-2.500	0.0
6140	91.500	2.500	0.0
6168	96.500	-2.500	0.0
6169	92.000	2.500	0.0
6197	97.000	-2.500	0.0
6198	92.500	2.500	0.0
6226	97.500	-2.500	0.0
6227	93.000	2.500	0.0
6255	98.000	-2.500	0.0
6256	93.500	2.500	0.0
6284	98.500	-2.500	0.0
6285	94.000	2.500	0.0
6320	99.000	-2.500	0.0
6321	94.500	2.500	0.0
6350	99.500	-2.500	0.0
6351	100.000	-2.500	0.0
6352	95.000	2.500	0.0
6353	95.500	2.500	0.0
6408	100.500	-2.500	0.0
6409	96.000	2.500	0.0
6437	101.000	-2.500	0.0
6438	96.500	2.500	0.0
6466	101.500	-2.500	0.0
6467	97.000	2.500	0.0
6495	102.000	-2.500	0.0
6496	97.500	2.500	0.0
6524	102.500	-2.500	0.0
6525	98.000	2.500	0.0
6553	103.000	-2.500	0.0
6554	98.500	2.500	0.0
6589	103.500	-2.500	0.0
6590	99.000	2.500	0.0
6619	104.000	-2.500	0.0
6620	104.500	-2.500	0.0
6621	99.500	2.500	0.0
6622	100.000	2.500	0.0
6677	105.000	-2.500	0.0
6678	100.500	2.500	0.0

6706	105.500	-2.500	0.0
6707	101.000	2.500	0.0
6735	106.000	-2.500	0.0
6736	101.500	2.500	0.0
6764	106.500	-2.500	0.0
6765	102.000	2.500	0.0
6793	107.000	-2.500	0.0
6794	102.500	2.500	0.0
6822	107.500	-2.500	0.0
6823	103.000	2.500	0.0
6858	108.000	-2.500	0.0
6859	103.500	2.500	0.0
6888	108.500	-2.500	0.0
6889	109.000	-2.500	0.0
6890	104.000	2.500	0.0
6891	104.500	2.500	0.0
6946	109.500	-2.500	0.0
6947	105.000	2.500	0.0
6975	110.000	-2.500	0.0
6976	105.500	2.500	0.0
7004	110.500	-2.500	0.0
7005	106.000	2.500	0.0
7033	111.000	-2.500	0.0
7034	106.500	2.500	0.0
7062	111.500	-2.500	0.0
7063	107.000	2.500	0.0
7091	112.000	-2.500	0.0
7092	107.500	2.500	0.0
7127	112.500	-2.500	0.0
7128	108.000	2.500	0.0
7157	113.000	-2.500	0.0
7158	113.500	-2.500	0.0
7159	108.500	2.500	0.0
7160	109.000	2.500	0.0
7215	114.000	-2.500	0.0
7216	109.500	2.500	0.0
7244	114.500	-2.500	0.0
7245	110.000	2.500	0.0
7273	115.000	-2.500	0.0
7274	110.500	2.500	0.0
7302	115.500	-2.500	0.0
7303	111.000	2.500	0.0
7331	116.000	-2.500	0.0
7332	111.500	2.500	0.0
7360	116.500	-2.500	0.0
7361	112.000	2.500	0.0
7396	117.000	-2.500	0.0
7397	112.500	2.500	0.0
7426	117.500	-2.500	0.0
7427	118.000	-2.500	0.0
7428	113.000	2.500	0.0
7429	113.500	2.500	0.0
7484	118.500	-2.500	0.0
7485	114.000	2.500	0.0
7513	119.000	-2.500	0.0
7514	114.500	2.500	0.0
7542	119.500	-2.500	0.0
7543	115.000	2.500	0.0
7571	120.000	-2.500	0.0
7572	115.500	2.500	0.0
7600	120.500	-2.500	0.0
7601	116.000	2.500	0.0
7629	121.000	-2.500	0.0

7630	116.500	2.500	0.0
7665	121.500	-2.500	0.0
7666	117.000	2.500	0.0
7695	122.000	-2.500	0.0
7696	122.500	-2.500	0.0
7697	117.500	2.500	0.0
7698	118.000	2.500	0.0
7753	123.000	-2.500	0.0
7754	118.500	2.500	0.0
7782	123.500	-2.500	0.0
7783	119.000	2.500	0.0
7811	124.000	-2.500	0.0
7812	119.500	2.500	0.0
7840	124.500	-2.500	0.0
7841	120.000	2.500	0.0
7869	125.000	-2.500	0.0
7870	120.500	2.500	0.0
7898	125.500	-2.500	0.0
7899	121.000	2.500	0.0
7934	126.000	-2.500	0.0
7935	121.500	2.500	0.0
7964	126.500	-2.500	0.0
7965	127.000	-2.500	0.0
7966	122.000	2.500	0.0
7967	122.500	2.500	0.0
8022	127.500	-2.500	0.0
8023	123.000	2.500	0.0
8051	128.000	-2.500	0.0
8052	123.500	2.500	0.0
8080	128.500	-2.500	0.0
8081	124.000	2.500	0.0
8109	129.000	-2.500	0.0
8110	124.500	2.500	0.0
8138	129.500	-2.500	0.0
8139	125.000	2.500	0.0
8167	130.000	-2.500	0.0
8168	125.500	2.500	0.0
8203	130.500	-2.500	0.0
8204	126.000	2.500	0.0
8233	131.000	-2.500	0.0
8234	131.500	-2.500	0.0
8235	126.500	2.500	0.0
8236	127.000	2.500	0.0
8291	132.000	-2.500	0.0
8292	127.500	2.500	0.0
8320	132.500	-2.500	0.0
8321	128.000	2.500	0.0
8349	133.000	-2.500	0.0
8350	128.500	2.500	0.0
8378	133.500	-2.500	0.0
8379	129.000	2.500	0.0
8407	134.000	-2.500	0.0
8408	129.500	2.500	0.0
8436	134.500	-2.500	0.0
8437	130.000	2.500	0.0
8472	135.000	-2.500	0.0
8473	130.500	2.500	0.0
8502	135.500	-2.500	0.0
8503	136.000	-2.500	0.0
8504	131.000	2.500	0.0
8505	131.500	2.500	0.0
8560	136.500	-2.500	0.0
8561	132.000	2.500	0.0

8589	137.000	-2.500	0.0
8590	132.500	2.500	0.0
8618	137.500	-2.500	0.0
8619	133.000	2.500	0.0
8647	138.000	-2.500	0.0
8648	133.500	2.500	0.0
8676	138.500	-2.500	0.0
8677	134.000	2.500	0.0
8705	139.000	-2.500	0.0
8706	134.500	2.500	0.0
8741	139.500	-2.500	0.0
8742	135.000	2.500	0.0
8771	140.000	-2.500	0.0
8772	140.500	-2.500	0.0
8773	135.500	2.500	0.0
8774	136.000	2.500	0.0
8829	141.000	-2.500	0.0
8830	136.500	2.500	0.0
8858	141.500	-2.500	0.0
8859	137.000	2.500	0.0
8887	142.000	-2.500	0.0
8888	137.500	2.500	0.0
8916	142.500	-2.500	0.0
8917	138.000	2.500	0.0
8945	143.000	-2.500	0.0
8946	138.500	2.500	0.0
8974	143.500	-2.500	0.0
8975	139.000	2.500	0.0
9010	144.000	-2.500	0.0
9011	139.500	2.500	0.0
9136	144.500	-2.500	0.0
9137	145.000	-2.500	0.0
9138	140.000	2.500	0.0
9139	140.500	2.500	0.0
9194	145.500	-2.500	0.0
9195	141.000	2.500	0.0
9223	146.000	-2.500	0.0
9224	141.500	2.500	0.0
9252	146.500	-2.500	0.0
9253	142.000	2.500	0.0
9281	147.000	-2.500	0.0
9282	142.500	2.500	0.0
9310	147.500	-2.500	0.0
9311	143.000	2.500	0.0
9339	148.000	-2.500	0.0
9340	143.500	2.500	0.0
9375	148.500	-2.500	0.0
9376	144.000	2.500	0.0
9405	149.000	-2.500	0.0
9406	149.500	-2.500	0.0
9407	144.500	2.500	0.0
9408	145.000	2.500	0.0
9463	150.000	-2.500	0.0
9464	145.500	2.500	0.0
9492	150.500	-2.500	0.0
9493	146.000	2.500	0.0
9521	151.000	-2.500	0.0
9522	146.500	2.500	0.0
9550	151.500	-2.500	0.0
9551	147.000	2.500	0.0
9579	152.000	-2.500	0.0
9580	147.500	2.500	0.0
9608	152.500	-2.500	0.0

9609	148.000	2.500	0.0
9644	153.000	-2.500	0.0
9645	148.500	2.500	0.0
9674	153.500	-2.500	0.0
9675	154.000	-2.500	0.0
9676	149.000	2.500	0.0
9677	149.500	2.500	0.0
9732	154.500	-2.500	0.0
9733	150.000	2.500	0.0
9761	155.000	-2.500	0.0
9762	150.500	2.500	0.0
9790	155.500	-2.500	0.0
9791	151.000	2.500	0.0
9819	156.000	-2.500	0.0
9820	151.500	2.500	0.0
9848	156.500	-2.500	0.0
9849	152.000	2.500	0.0
9877	157.000	-2.500	0.0
9878	152.500	2.500	0.0
9913	157.500	-2.500	0.0
9914	153.000	2.500	0.0
9943	158.000	-2.500	0.0
9944	158.500	-2.500	0.0
9945	153.500	2.500	0.0
9946	154.000	2.500	0.0
10001	159.000	-2.500	0.0
10002	154.500	2.500	0.0
10030	159.500	-2.500	0.0
10031	155.000	2.500	0.0
10059	160.000	-2.500	0.0
10060	155.500	2.500	0.0
10088	160.500	-2.500	0.0
10089	156.000	2.500	0.0
10117	161.000	-2.500	0.0
10118	156.500	2.500	0.0
10146	161.500	-2.500	0.0
10147	157.000	2.500	0.0
10182	162.000	-2.500	0.0
10183	157.500	2.500	0.0
10212	162.500	-2.500	0.0
10213	163.000	-2.500	0.0
10214	158.000	2.500	0.0
10215	158.500	2.500	0.0
10270	163.500	-2.500	0.0
10271	159.000	2.500	0.0
10299	164.000	-2.500	0.0
10300	159.500	2.500	0.0
10328	164.500	-2.500	0.0
10329	160.000	2.500	0.0
10357	165.000	-2.500	0.0
10358	160.500	2.500	0.0
10386	165.500	-2.500	0.0
10387	161.000	2.500	0.0
10415	166.000	-2.500	0.0
10416	161.500	2.500	0.0
10451	166.500	-2.500	0.0
10452	162.000	2.500	0.0
10481	167.000	-2.500	0.0
10482	167.500	-2.500	0.0
10483	162.500	2.500	0.0
10484	163.000	2.500	0.0
10539	168.000	-2.500	0.0
10540	163.500	2.500	0.0

10568	168.500	-2.500	0.0
10569	164.000	2.500	0.0
10597	169.000	-2.500	0.0
10598	164.500	2.500	0.0
10626	169.500	-2.500	0.0
10627	165.000	2.500	0.0
10655	170.000	-2.500	0.0
10656	165.500	2.500	0.0
10684	170.500	-2.500	0.0
10685	166.000	2.500	0.0

1113	3700	3729	Viga A-170B Maciza	HP - 55	0.500
1114	3729	3758	Viga A-170B Maciza	HP - 55	0.500
1115	3758	3787	Viga A-170B Maciza	HP - 55	0.500
1116	3787	3816	Viga A-170B Maciza	HP - 55	0.500
1117	3816	3852	Viga A-170B Maciza	HP - 55	0.500
1118	3852	3883	Viga A-170B Maciza	HP - 55	0.500
1119	3883	3884	Viga A-170B	HP - 55	0.500
1120	3884	3940	Viga A-170B	HP - 55	0.500
1121	3940	3969	Viga A-170B	HP - 55	0.500
1122	3969	3998	Viga A-170B	HP - 55	0.500
1123	3998	4027	Viga A-170B	HP - 55	0.500
1124	4027	4056	Viga A-170B	HP - 55	0.500
1125	4056	4085	Viga A-170B	HP - 55	0.500
1126	4085	4121	Viga A-170B	HP - 55	0.500
1127	4121	4152	Viga A-170B	HP - 55	0.500
1128	4152	4153	Viga A-170B	HP - 55	0.500
1129	4153	4209	Viga A-170B	HP - 55	0.500
1130	4209	4238	Viga A-170B	HP - 55	0.500
1131	4238	4267	Viga A-170B	HP - 55	0.500
1132	4267	4296	Viga A-170B	HP - 55	0.500
1133	4296	4325	Viga A-170B	HP - 55	0.500
1134	4325	4354	Viga A-170B	HP - 55	0.500
1135	4354	4390	Viga A-170B	HP - 55	0.500
1136	4390	4421	Viga A-170B	HP - 55	0.500
1137	4421	4422	Viga A-170B	HP - 55	0.500
1138	4422	4478	Viga A-170B	HP - 55	0.500
1139	4478	4507	Viga A-170B	HP - 55	0.500
1140	4507	4536	Viga A-170B	HP - 55	0.500
1141	4536	4565	Viga A-170B	HP - 55	0.500
1142	4565	4594	Viga A-170B	HP - 55	0.500
1143	4594	4623	Viga A-170B	HP - 55	0.500
1144	4623	4659	Viga A-170B	HP - 55	0.500
1145	4659	4738	Viga A-170B	HP - 55	0.500
1146	4738	4739	Viga A-170B	HP - 55	0.500
1147	4739	4795	Viga A-170B	HP - 55	0.500
1148	4795	4824	Viga A-170B	HP - 55	0.500
1149	4824	4853	Viga A-170B	HP - 55	0.500
1150	4853	4882	Viga A-170B	HP - 55	0.500
1151	4882	4911	Viga A-170B	HP - 55	0.500
1152	4911	4940	Viga A-170B	HP - 55	0.500
1153	4940	4976	Viga A-170B	HP - 55	0.500
1154	4976	5007	Viga A-170B	HP - 55	0.500
1155	5007	5008	Viga A-170B	HP - 55	0.500
1156	5008	5064	Viga A-170B	HP - 55	0.500
1157	5064	5093	Viga A-170B	HP - 55	0.500
1158	5093	5122	Viga A-170B	HP - 55	0.500
1159	5122	5151	Viga A-170B	HP - 55	0.500
1160	5151	5180	Viga A-170B	HP - 55	0.500
1161	5180	5209	Viga A-170B	HP - 55	0.500
1162	5209	5245	Viga A-170B	HP - 55	0.500
1163	5245	5276	Viga A-170B	HP - 55	0.500
1164	5276	5277	Viga A-170B	HP - 55	0.500
1165	5277	5333	Viga A-170B	HP - 55	0.500
1166	5333	5362	Viga A-170B	HP - 55	0.500
1167	5362	5391	Viga A-170B Maciza	HP - 55	0.500
1168	5391	5420	Viga A-170B Maciza	HP - 55	0.500
1169	5420	5449	Viga A-170B Maciza	HP - 55	0.500
1170	5449	5478	Viga A-170B Maciza	HP - 55	0.500
1171	5478	5514	Viga A-170B Maciza	HP - 55	0.500
1172	5514	5545	Viga A-170B Maciza	HP - 55	0.500
1173	5545	5546	Viga A-170B Maciza	HP - 55	0.500
1174	5546	5602	Viga A-170B Maciza	HP - 55	0.500
1175	5602	5631	Viga A-170B Maciza	HP - 55	0.500
1176	5631	5660	Viga A-170B Maciza	HP - 55	0.500
1177	5660	5689	Viga A-170B Maciza	HP - 55	0.500
1178	5689	5718	Viga A-170B Maciza	HP - 55	0.500
1179	5718	5747	Viga A-170B	HP - 55	0.500
1180	5747	5783	Viga A-170B	HP - 55	0.500
1181	5783	5814	Viga A-170B	HP - 55	0.500
1182	5814	5815	Viga A-170B	HP - 55	0.500
1183	5815	5871	Viga A-170B	HP - 55	0.500
1184	5871	5900	Viga A-170B	HP - 55	0.500
1185	5900	5929	Viga A-170B	HP - 55	0.500
1186	5929	5958	Viga A-170B	HP - 55	0.500
1187	5958	5987	Viga A-170B	HP - 55	0.500
1188	5987	6016	Viga A-170B	HP - 55	0.500
1189	6016	6052	Viga A-170B	HP - 55	0.500
1190	6052	6083	Viga A-170B	HP - 55	0.500
1191	6083	6084	Viga A-170B	HP - 55	0.500
1192	6084	6140	Viga A-170B	HP - 55	0.500
1193	6140	6169	Viga A-170B	HP - 55	0.500
1194	6169	6198	Viga A-170B	HP - 55	0.500
1195	6198	6227	Viga A-170B	HP - 55	0.500
1196	6227	6256	Viga A-170B	HP - 55	0.500
1197	6256	6285	Viga A-170B	HP - 55	0.500
1198	6285	6321	Viga A-170B	HP - 55	0.500
1199	6321	6352	Viga A-170B	HP - 55	0.500
1200	6352	6353	Viga A-170B	HP - 55	0.500
1201	6353	6409	Viga A-170B	HP - 55	0.500
1202	6409	6438	Viga A-170B	HP - 55	0.500
1203	6438	6467	Viga A-170B	HP - 55	0.500
1204	6467	6496	Viga A-170B	HP - 55	0.500
1205	6496	6525	Viga A-170B	HP - 55	0.500
1206	6525	6554	Viga A-170B	HP - 55	0.500
1207	6554	6590	Viga A-170B	HP - 55	0.500
1208	6590	6621	Viga A-170B	HP - 55	0.500
1209	6621	6622	Viga A-170B	HP - 55	0.500
1210	6622	6678	Viga A-170B	HP - 55	0.500
1211	6678	6707	Viga A-170B	HP - 55	0.500
1212	6707	6736	Viga A-170B	HP - 55	0.500
1213	6736	6765	Viga A-170B	HP - 55	0.500
1214	6765	6794	Viga A-170B	HP - 55	0.500
1215	6794	6823	Viga A-170B	HP - 55	0.500
1216	6823	6859	Viga A-170B	HP - 55	0.500
1217	6859	6890	Viga A-170B	HP - 55	0.500
1218	6890	6891	Viga A-170B	HP - 55	0.500
1219	6891	6947	Viga A-170B	HP - 55	0.500
1220	6947	6976	Viga A-170B	HP - 55	0.500
1221	6976	7005	Viga A-170B	HP - 55	0.500
1222	7005	7034	Viga A-170B	HP - 55	0.500
1223	7034	7063	Viga A-170B	HP - 55	0.500
1224	7063	7092	Viga A-170B	HP - 55	0.500
1225	7092	7128	Viga A-170B	HP - 55	0.500
1226	7128	7159	Viga A-170B	HP - 55	0.500
1227	7159	7160	Viga A-170B Maciza	HP - 55	0.500
1228	7160	7216	Viga A-170B Maciza	HP - 55	0.500
1229	7216	7245	Viga A-170B Maciza	HP - 55	0.500
1230	7245	7274	Viga A-170B Maciza	HP - 55	0.500
1231	7274	7303	Viga A-170B Maciza	HP - 55	0.500
1232	7303	7332	Viga A-170B Maciza	HP - 55	0.500
1233	7332	7361	Viga A-170B Maciza	HP - 55	0.500
1234	7361	7397	Viga A-170B Maciza	HP - 55	0.500
1235	7397	7428	Viga A-170B Maciza	HP - 55	0.500
1236	7428	7429	Viga A-170B Maciza	HP - 55	0.500
1237	7429	7485	Viga A-170B Maciza	HP - 55	0.500
1238	7485	7514	Viga A-170B Maciza	HP - 55	0.500

1239	7514	7543	Viga A-170B	HP - 55	0.500
1240	7543	7572	Viga A-170B	HP - 55	0.500
1241	7572	7601	Viga A-170B	HP - 55	0.500
1242	7601	7630	Viga A-170B	HP - 55	0.500
1243	7630	7666	Viga A-170B	HP - 55	0.500
1244	7666	7697	Viga A-170B	HP - 55	0.500
1245	7697	7698	Viga A-170B	HP - 55	0.500
1246	7698	7754	Viga A-170B	HP - 55	0.500
1247	7754	7783	Viga A-170B	HP - 55	0.500
1248	7783	7812	Viga A-170B	HP - 55	0.500
1249	7812	7841	Viga A-170B	HP - 55	0.500
1250	7841	7870	Viga A-170B	HP - 55	0.500
1251	7870	7899	Viga A-170B	HP - 55	0.500
1252	7899	7935	Viga A-170B	HP - 55	0.500
1253	7935	7966	Viga A-170B	HP - 55	0.500
1254	7966	7967	Viga A-170B	HP - 55	0.500
1255	7967	8023	Viga A-170B	HP - 55	0.500
1256	8023	8052	Viga A-170B	HP - 55	0.500
1257	8052	8081	Viga A-170B	HP - 55	0.500
1258	8081	8110	Viga A-170B	HP - 55	0.500
1259	8110	8139	Viga A-170B	HP - 55	0.500
1260	8139	8168	Viga A-170B	HP - 55	0.500
1261	8168	8204	Viga A-170B	HP - 55	0.500
1262	8204	8235	Viga A-170B	HP - 55	0.500
1263	8235	8236	Viga A-170B	HP - 55	0.500
1264	8236	8292	Viga A-170B	HP - 55	0.500
1265	8292	8321	Viga A-170B	HP - 55	0.500
1266	8321	8350	Viga A-170B	HP - 55	0.500
1267	8350	8379	Viga A-170B	HP - 55	0.500
1268	8379	8408	Viga A-170B	HP - 55	0.500
1269	8408	8437	Viga A-170B	HP - 55	0.500
1270	8437	8473	Viga A-170B	HP - 55	0.500
1271	8473	8504	Viga A-170B	HP - 55	0.500
1272	8504	8505	Viga A-170B	HP - 55	0.500
1273	8505	8561	Viga A-170B	HP - 55	0.500
1274	8561	8590	Viga A-170B	HP - 55	0.500
1275	8590	8619	Viga A-170B	HP - 55	0.500
1276	8619	8648	Viga A-170B	HP - 55	0.500
1277	8648	8677	Viga A-170B	HP - 55	0.500
1278	8677	8706	Viga A-170B	HP - 55	0.500
1279	8706	8742	Viga A-170B	HP - 55	0.500
1280	8742	8773	Viga A-170B	HP - 55	0.500
1281	8773	8774	Viga A-170B	HP - 55	0.500
1282	8774	8830	Viga A-170B	HP - 55	0.500
1283	8830	8859	Viga A-170B	HP - 55	0.500
1284	8859	8888	Viga A-170B	HP - 55	0.500
1285	8888	8917	Viga A-170B	HP - 55	0.500
1286	8917	8946	Viga A-170B	HP - 55	0.500
1287	8946	8975	Viga A-170B Maciza	HP - 55	0.500
1288	8975	9011	Viga A-170B Maciza	HP - 55	0.500
1289	9011	9138	Viga A-170B Maciza	HP - 55	0.500
1290	9138	9139	Viga A-170B Maciza	HP - 55	0.500
1291	9139	9195	Viga A-170B Maciza	HP - 55	0.500
1292	9195	9224	Viga A-170B Maciza	HP - 55	0.500
1293	9224	9253	Viga A-170B Maciza	HP - 55	0.500
1294	9253	9282	Viga A-170B Maciza	HP - 55	0.500
1295	9282	9311	Viga A-170B Maciza	HP - 55	0.500
1296	9311	9340	Viga A-170B Maciza	HP - 55	0.500
1297	9340	9376	Viga A-170B Maciza	HP - 55	0.500
1298	9376	9407	Viga A-170B Maciza	HP - 55	0.500
1299	9407	9408	Viga A-170B	HP - 55	0.500
1300	9408	9464	Viga A-170B	HP - 55	0.500
1301	9464	9493	Viga A-170B	HP - 55	0.500
1302	9493	9522	Viga A-170B	HP - 55	0.500
1303	9522	9551	Viga A-170B	HP - 55	0.500
1304	9551	9580	Viga A-170B	HP - 55	0.500
1305	9580	9609	Viga A-170B	HP - 55	0.500
1306	9609	9645	Viga A-170B	HP - 55	0.500
1307	9645	9676	Viga A-170B	HP - 55	0.500
1308	9676	9677	Viga A-170B	HP - 55	0.500
1309	9677	9733	Viga A-170B	HP - 55	0.500
1310	9733	9762	Viga A-170B	HP - 55	0.500
1311	9762	9791	Viga A-170B	HP - 55	0.500
1312	9791	9820	Viga A-170B	HP - 55	0.500
1313	9820	9849	Viga A-170B	HP - 55	0.500
1314	9849	9878	Viga A-170B	HP - 55	0.500
1315	9878	9914	Viga A-170B	HP - 55	0.500
1316	9914	9945	Viga A-170B	HP - 55	0.500
1317	9945	9946	Viga A-170B	HP - 55	0.500
1318	9946	10002	Viga A-170B	HP - 55	0.500
1319	10002	10031	Viga A-170B	HP - 55	0.500
1320	10031	10060	Viga A-170B	HP - 55	0.500
1321	10060	10089	Viga A-170B	HP - 55	0.500
1322	10089	10118	Viga A-170B	HP - 55	0.500
1323	10118	10147	Viga A-170B	HP - 55	0.500
1324	10147	10183	Viga A-170B	HP - 55	0.500
1325	10183	10214	Viga A-170B	HP - 55	0.500
1326	10214	10215	Viga A-170B	HP - 55	0.500
1327	10215	10271	Viga A-170B	HP - 55	0.500
1328	10271	10300	Viga A-170B	HP - 55	0.500
1329	10300	10329	Viga A-170B	HP - 55	0.500
1330	10329	10358	Viga A-170B	HP - 55	0.500
1331	10358	10387	Viga A-170B	HP - 55	0.500
1332	10387	10416	Viga A-170B	HP - 55	0.500
1333	10416	10452	Viga A-170B	HP - 55	0.500
1334	10452	10483	Viga A-170B	HP - 55	0.500
1335	10483	10484	Viga A-170B	HP - 55	0.500
1336	10484	10540	Viga A-170B	HP - 55	0.500
1337	10540	10569	Viga A-170B	HP - 55	0.500
1338	10569	10598	Viga A-170B	HP - 55	0.500
1339	10598	10627	Viga A-170B	HP - 55	0.500
1340	10627	10656	Viga A-170B Maciza	HP - 55	0.500
1341	10656	10685	Viga A-170B Maciza	HP - 55	0.500
2001	80	81	Viga A-170B Maciza	HP - 55	0.500
2002	81	82	Viga A-170B Maciza	HP - 55	0.500
2003	82	83	Viga A-170B	HP - 55	0.500
2004	83	84	Viga A-170B	HP - 55	0.500
2005	84	85	Viga A-170B	HP - 55	0.500
2006	85	86	Viga A-170B	HP - 55	0.500
2007	86	87	Viga A-170B	HP - 55	0.500
2008	87	88	Viga A-170B	HP - 55	0.500
2009	88	89	Viga A-170B	HP - 55	0.500
2010	89	611	Viga A-170B	HP - 55	0.500
2011	611	612	Viga A-170B	HP - 55	0.500
2012	612	669	Viga A-170B	HP - 55	0.500
2013	669	698	Viga A-170B	HP - 55	0.500
2014	698	727	Viga A-170B	HP - 55	0.500
2015	727	756	Viga A-170B	HP - 55	0.500
2016	756	785	Viga A-170B	HP - 55	0.500
2017	785	814	Viga A-170B	HP - 55	0.500
2018	814	850	Viga A-170B	HP - 55	0.500
2019	850	886	Viga A-170B	HP - 55	0.500
2020	886	887	Viga A-170B	HP - 55	0.500
2021	887	944	Viga A-170B	HP - 55	0.500
2022	944	973	Viga A-170B	HP - 55	0.500
2023	973	1002	Viga A-170B	HP - 55	0.500

2024	1002	1031	Viga A-170B	HP - 55	0.500
2025	1031	1060	Viga A-170B	HP - 55	0.500
2026	1060	1089	Viga A-170B	HP - 55	0.500
2027	1089	1125	Viga A-170B	HP - 55	0.500
2028	1125	1155	Viga A-170B	HP - 55	0.500
2029	1155	1156	Viga A-170B	HP - 55	0.500
2030	1156	1213	Viga A-170B	HP - 55	0.500
2031	1213	1242	Viga A-170B	HP - 55	0.500
2032	1242	1271	Viga A-170B	HP - 55	0.500
2033	1271	1300	Viga A-170B	HP - 55	0.500
2034	1300	1329	Viga A-170B	HP - 55	0.500
2035	1329	1358	Viga A-170B	HP - 55	0.500
2036	1358	1394	Viga A-170B	HP - 55	0.500
2037	1394	1436	Viga A-170B	HP - 55	0.500
2038	1436	1437	Viga A-170B	HP - 55	0.500
2039	1437	1494	Viga A-170B	HP - 55	0.500
2040	1494	1523	Viga A-170B	HP - 55	0.500
2041	1523	1552	Viga A-170B	HP - 55	0.500
2042	1552	1581	Viga A-170B	HP - 55	0.500
2043	1581	1610	Viga A-170B	HP - 55	0.500
2044	1610	1639	Viga A-170B	HP - 55	0.500
2045	1639	1675	Viga A-170B	HP - 55	0.500
2046	1675	1705	Viga A-170B Maciza	HP - 55	0.500
2047	1705	1706	Viga A-170B Maciza	HP - 55	0.500
2048	1706	1763	Viga A-170B Maciza	HP - 55	0.500
2049	1763	1792	Viga A-170B Maciza	HP - 55	0.500
2050	1792	1821	Viga A-170B Maciza	HP - 55	0.500
2051	1821	1850	Viga A-170B Maciza	HP - 55	0.500
2052	1850	1879	Viga A-170B Maciza	HP - 55	0.500
2053	1879	1908	Viga A-170B Maciza	HP - 55	0.500
2054	1908	1944	Viga A-170B Maciza	HP - 55	0.500
2055	1944	1974	Viga A-170B Maciza	HP - 55	0.500
2056	1974	1975	Viga A-170B Maciza	HP - 55	0.500
2057	1975	2032	Viga A-170B Maciza	HP - 55	0.500
2058	2032	2061	Viga A-170B	HP - 55	0.500
2059	2061	2090	Viga A-170B	HP - 55	0.500
2060	2090	2119	Viga A-170B	HP - 55	0.500
2061	2119	2148	Viga A-170B	HP - 55	0.500
2062	2148	2177	Viga A-170B	HP - 55	0.500
2063	2177	2213	Viga A-170B	HP - 55	0.500
2064	2213	2243	Viga A-170B	HP - 55	0.500
2065	2243	2244	Viga A-170B	HP - 55	0.500
2066	2244	2301	Viga A-170B	HP - 55	0.500
2067	2301	2330	Viga A-170B	HP - 55	0.500
2068	2330	2359	Viga A-170B	HP - 55	0.500
2069	2359	2388	Viga A-170B	HP - 55	0.500
2070	2388	2417	Viga A-170B	HP - 55	0.500
2071	2417	2446	Viga A-170B	HP - 55	0.500
2072	2446	2482	Viga A-170B	HP - 55	0.500
2073	2482	2536	Viga A-170B	HP - 55	0.500
2074	2536	2537	Viga A-170B	HP - 55	0.500
2075	2537	2594	Viga A-170B	HP - 55	0.500
2076	2594	2623	Viga A-170B	HP - 55	0.500
2077	2623	2652	Viga A-170B	HP - 55	0.500
2078	2652	2681	Viga A-170B	HP - 55	0.500
2079	2681	2710	Viga A-170B	HP - 55	0.500
2080	2710	2739	Viga A-170B	HP - 55	0.500
2081	2739	2775	Viga A-170B	HP - 55	0.500
2082	2775	2805	Viga A-170B	HP - 55	0.500
2083	2805	2806	Viga A-170B	HP - 55	0.500
2084	2806	2863	Viga A-170B	HP - 55	0.500
2085	2863	2892	Viga A-170B	HP - 55	0.500
2086	2892	2921	Viga A-170B	HP - 55	0.500
2087	2921	2950	Viga A-170B	HP - 55	0.500
2088	2950	2979	Viga A-170B	HP - 55	0.500
2089	2979	3008	Viga A-170B	HP - 55	0.500
2090	3008	3044	Viga A-170B	HP - 55	0.500
2091	3044	3074	Viga A-170B	HP - 55	0.500
2092	3074	3075	Viga A-170B	HP - 55	0.500
2093	3075	3132	Viga A-170B	HP - 55	0.500
2094	3132	3161	Viga A-170B	HP - 55	0.500
2095	3161	3190	Viga A-170B	HP - 55	0.500
2096	3190	3219	Viga A-170B	HP - 55	0.500
2097	3219	3248	Viga A-170B	HP - 55	0.500
2098	3248	3277	Viga A-170B	HP - 55	0.500
2099	3277	3313	Viga A-170B	HP - 55	0.500
2100	3313	3343	Viga A-170B	HP - 55	0.500
2101	3343	3344	Viga A-170B	HP - 55	0.500
2102	3344	3401	Viga A-170B	HP - 55	0.500
2103	3401	3430	Viga A-170B	HP - 55	0.500
2104	3430	3459	Viga A-170B	HP - 55	0.500
2105	3459	3488	Viga A-170B	HP - 55	0.500
2106	3488	3517	Viga A-170B	HP - 55	0.500
2107	3517	3546	Viga A-170B Maciza	HP - 55	0.500
2108	3546	3582	Viga A-170B Maciza	HP - 55	0.500
2109	3582	3612	Viga A-170B Maciza	HP - 55	0.500
2110	3612	3613	Viga A-170B Maciza	HP - 55	0.500
2111	3613	3670	Viga A-170B Maciza	HP - 55	0.500
2112	3670	3699	Viga A-170B Maciza	HP - 55	0.500
2113	3699	3728	Viga A-170B Maciza	HP - 55	0.500
2114	3728	3757	Viga A-170B Maciza	HP - 55	0.500
2115	3757	3786	Viga A-170B Maciza	HP - 55	0.500
2116	3786	3815	Viga A-170B Maciza	HP - 55	0.500
2117	3815	3851	Viga A-170B Maciza	HP - 55	0.500
2118	3851	3881	Viga A-170B Maciza	HP - 55	0.500
2119	3881	3882	Viga A-170B	HP - 55	0.500
2120	3882	3939	Viga A-170B	HP - 55	0.500
2121	3939	3968	Viga A-170B	HP - 55	0.500
2122	3968	3997	Viga A-170B	HP - 55	0.500
2123	3997	4026	Viga A-170B	HP - 55	0.500
2124	4026	4055	Viga A-170B	HP - 55	0.500
2125	4055	4084	Viga A-170B	HP - 55	0.500
2126	4084	4120	Viga A-170B	HP - 55	0.500
2127	4120	4150	Viga A-170B	HP - 55	0.500
2128	4150	4151	Viga A-170B	HP - 55	0.500
2129	4151	4208	Viga A-170B	HP - 55	0.500
2130	4208	4237	Viga A-170B	HP - 55	0.500
2131	4237	4266	Viga A-170B	HP - 55	0.500
2132	4266	4295	Viga A-170B	HP - 55	0.500
2133	4295	4324	Viga A-170B	HP - 55	0.500
2134	4324	4353	Viga A-170B	HP - 55	0.500
2135	4353	4389	Viga A-170B	HP - 55	0.500
2136	4389	4419	Viga A-170B	HP - 55	0.500
2137	4419	4420	Viga A-170B	HP - 55	0.500
2138	4420	4477	Viga A-170B	HP - 55	0.500
2139	4477	4506	Viga A-170B	HP - 55	0.500
2140	4506	4535	Viga A-170B	HP - 55	0.500
2141	4535	4564	Viga A-170B	HP - 55	0.500
2142	4564	4593	Viga A-170B	HP - 55	0.500
2143	4593	4622	Viga A-170B	HP - 55	0.500
2144	4622	4658	Viga A-170B	HP - 55	0.500
2145	4658	4736	Viga A-170B	HP - 55	0.500
2146	4736	4737	Viga A-170B	HP - 55	0.500
2147	4737	4794	Viga A-170B	HP - 55	0.500
2148	4794	4823	Viga A-170B	HP - 55	0.500
2149	4823	4852	Viga A-170B	HP - 55	0.500

2150	4852	4881	Viga A-170B	HP - 55	0.500
2151	4881	4910	Viga A-170B	HP - 55	0.500
2152	4910	4939	Viga A-170B	HP - 55	0.500
2153	4939	4975	Viga A-170B	HP - 55	0.500
2154	4975	5005	Viga A-170B	HP - 55	0.500
2155	5005	5006	Viga A-170B	HP - 55	0.500
2156	5006	5063	Viga A-170B	HP - 55	0.500
2157	5063	5092	Viga A-170B	HP - 55	0.500
2158	5092	5121	Viga A-170B	HP - 55	0.500
2159	5121	5150	Viga A-170B	HP - 55	0.500
2160	5150	5179	Viga A-170B	HP - 55	0.500
2161	5179	5208	Viga A-170B	HP - 55	0.500
2162	5208	5244	Viga A-170B	HP - 55	0.500
2163	5244	5274	Viga A-170B	HP - 55	0.500
2164	5274	5275	Viga A-170B	HP - 55	0.500
2165	5275	5332	Viga A-170B	HP - 55	0.500
2166	5332	5361	Viga A-170B	HP - 55	0.500
2167	5361	5390	Viga A-170B Maciza	HP - 55	0.500
2168	5390	5419	Viga A-170B Maciza	HP - 55	0.500
2169	5419	5448	Viga A-170B Maciza	HP - 55	0.500
2170	5448	5477	Viga A-170B Maciza	HP - 55	0.500
2171	5477	5513	Viga A-170B Maciza	HP - 55	0.500
2172	5513	5543	Viga A-170B Maciza	HP - 55	0.500
2173	5543	5544	Viga A-170B Maciza	HP - 55	0.500
2174	5544	5601	Viga A-170B Maciza	HP - 55	0.500
2175	5601	5630	Viga A-170B Maciza	HP - 55	0.500
2176	5630	5659	Viga A-170B Maciza	HP - 55	0.500
2177	5659	5688	Viga A-170B Maciza	HP - 55	0.500
2178	5688	5717	Viga A-170B Maciza	HP - 55	0.500
2179	5717	5746	Viga A-170B	HP - 55	0.500
2180	5746	5782	Viga A-170B	HP - 55	0.500
2181	5782	5812	Viga A-170B	HP - 55	0.500
2182	5812	5813	Viga A-170B	HP - 55	0.500
2183	5813	5870	Viga A-170B	HP - 55	0.500
2184	5870	5899	Viga A-170B	HP - 55	0.500
2185	5899	5928	Viga A-170B	HP - 55	0.500
2186	5928	5957	Viga A-170B	HP - 55	0.500
2187	5957	5986	Viga A-170B	HP - 55	0.500
2188	5986	6015	Viga A-170B	HP - 55	0.500
2189	6015	6051	Viga A-170B	HP - 55	0.500
2190	6051	6081	Viga A-170B	HP - 55	0.500
2191	6081	6082	Viga A-170B	HP - 55	0.500
2192	6082	6139	Viga A-170B	HP - 55	0.500
2193	6139	6168	Viga A-170B	HP - 55	0.500
2194	6168	6197	Viga A-170B	HP - 55	0.500
2195	6197	6226	Viga A-170B	HP - 55	0.500
2196	6226	6255	Viga A-170B	HP - 55	0.500
2197	6255	6284	Viga A-170B	HP - 55	0.500
2198	6284	6320	Viga A-170B	HP - 55	0.500
2199	6320	6350	Viga A-170B	HP - 55	0.500
2200	6350	6351	Viga A-170B	HP - 55	0.500
2201	6351	6408	Viga A-170B	HP - 55	0.500
2202	6408	6437	Viga A-170B	HP - 55	0.500
2203	6437	6466	Viga A-170B	HP - 55	0.500
2204	6466	6495	Viga A-170B	HP - 55	0.500
2205	6495	6524	Viga A-170B	HP - 55	0.500
2206	6524	6553	Viga A-170B	HP - 55	0.500
2207	6553	6589	Viga A-170B	HP - 55	0.500
2208	6589	6619	Viga A-170B	HP - 55	0.500
2209	6619	6620	Viga A-170B	HP - 55	0.500
2210	6620	6677	Viga A-170B	HP - 55	0.500
2211	6677	6706	Viga A-170B	HP - 55	0.500
2212	6706	6735	Viga A-170B	HP - 55	0.500
2213	6735	6764	Viga A-170B	HP - 55	0.500
2214	6764	6793	Viga A-170B	HP - 55	0.500
2215	6793	6822	Viga A-170B	HP - 55	0.500
2216	6822	6858	Viga A-170B	HP - 55	0.500
2217	6858	6888	Viga A-170B	HP - 55	0.500
2218	6888	6889	Viga A-170B	HP - 55	0.500
2219	6889	6946	Viga A-170B	HP - 55	0.500
2220	6946	6975	Viga A-170B	HP - 55	0.500
2221	6975	7004	Viga A-170B	HP - 55	0.500
2222	7004	7033	Viga A-170B	HP - 55	0.500
2223	7033	7062	Viga A-170B	HP - 55	0.500
2224	7062	7091	Viga A-170B	HP - 55	0.500
2225	7091	7127	Viga A-170B	HP - 55	0.500
2226	7127	7157	Viga A-170B	HP - 55	0.500
2227	7157	7158	Viga A-170B Maciza	HP - 55	0.500
2228	7158	7215	Viga A-170B Maciza	HP - 55	0.500
2229	7215	7244	Viga A-170B Maciza	HP - 55	0.500
2230	7244	7273	Viga A-170B Maciza	HP - 55	0.500
2231	7273	7302	Viga A-170B Maciza	HP - 55	0.500
2232	7302	7331	Viga A-170B Maciza	HP - 55	0.500
2233	7331	7360	Viga A-170B Maciza	HP - 55	0.500
2234	7360	7396	Viga A-170B Maciza	HP - 55	0.500
2235	7396	7426	Viga A-170B Maciza	HP - 55	0.500
2236	7426	7427	Viga A-170B Maciza	HP - 55	0.500
2237	7427	7484	Viga A-170B Maciza	HP - 55	0.500
2238	7484	7513	Viga A-170B Maciza	HP - 55	0.500
2239	7513	7542	Viga A-170B	HP - 55	0.500
2240	7542	7571	Viga A-170B	HP - 55	0.500
2241	7571	7600	Viga A-170B	HP - 55	0.500
2242	7600	7629	Viga A-170B	HP - 55	0.500
2243	7629	7665	Viga A-170B	HP - 55	0.500
2244	7665	7695	Viga A-170B	HP - 55	0.500
2245	7695	7696	Viga A-170B	HP - 55	0.500
2246	7696	7753	Viga A-170B	HP - 55	0.500
2247	7753	7782	Viga A-170B	HP - 55	0.500
2248	7782	7811	Viga A-170B	HP - 55	0.500
2249	7811	7840	Viga A-170B	HP - 55	0.500
2250	7840	7869	Viga A-170B	HP - 55	0.500
2251	7869	7898	Viga A-170B	HP - 55	0.500
2252	7898	7934	Viga A-170B	HP - 55	0.500
2253	7934	7964	Viga A-170B	HP - 55	0.500
2254	7964	7965	Viga A-170B	HP - 55	0.500
2255	7965	8022	Viga A-170B	HP - 55	0.500
2256	8022	8051	Viga A-170B	HP - 55	0.500
2257	8051	8080	Viga A-170B	HP - 55	0.500
2258	8080	8109	Viga A-170B	HP - 55	0.500
2259	8109	8138	Viga A-170B	HP - 55	0.500
2260	8138	8167	Viga A-170B	HP - 55	0.500
2261	8167	8203	Viga A-170B	HP - 55	0.500
2262	8203	8233	Viga A-170B	HP - 55	0.500
2263	8233	8234	Viga A-170B	HP - 55	0.500
2264	8234	8291	Viga A-170B	HP - 55	0.500
2265	8291	8320	Viga A-170B	HP - 55	0.500
2266	8320	8349	Viga A-170B	HP - 55	0.500
2267	8349	8378	Viga A-170B	HP - 55	0.500
2268	8378	8407	Viga A-170B	HP - 55	0.500
2269	8407	8436	Viga A-170B	HP - 55	0.500
2270	8436	8472	Viga A-170B	HP - 55	0.500
2271	8472	8502	Viga A-170B	HP - 55	0.500
2272	8502	8503	Viga A-170B	HP - 55	0.500
2273	8503	8560	Viga A-170B	HP - 55	0.500
2274	8560	8589	Viga A-170B	HP - 55	0.500
2275	8589	8618	Viga A-170B	HP - 55	0.500

2276	8618	8647	Viga A-170B	HP - 55	0.500
2277	8647	8676	Viga A-170B	HP - 55	0.500
2278	8676	8705	Viga A-170B	HP - 55	0.500
2279	8705	8741	Viga A-170B	HP - 55	0.500
2280	8741	8771	Viga A-170B	HP - 55	0.500
2281	8771	8772	Viga A-170B	HP - 55	0.500
2282	8772	8829	Viga A-170B	HP - 55	0.500
2283	8829	8858	Viga A-170B	HP - 55	0.500
2284	8858	8887	Viga A-170B	HP - 55	0.500
2285	8887	8916	Viga A-170B	HP - 55	0.500
2286	8916	8945	Viga A-170B	HP - 55	0.500
2287	8945	8974	Viga A-170B Maciza	HP - 55	0.500
2288	8974	9010	Viga A-170B Maciza	HP - 55	0.500
2289	9010	9136	Viga A-170B Maciza	HP - 55	0.500
2290	9136	9137	Viga A-170B Maciza	HP - 55	0.500
2291	9137	9194	Viga A-170B Maciza	HP - 55	0.500
2292	9194	9223	Viga A-170B Maciza	HP - 55	0.500
2293	9223	9252	Viga A-170B Maciza	HP - 55	0.500
2294	9252	9281	Viga A-170B Maciza	HP - 55	0.500
2295	9281	9310	Viga A-170B Maciza	HP - 55	0.500
2296	9310	9339	Viga A-170B Maciza	HP - 55	0.500
2297	9339	9375	Viga A-170B Maciza	HP - 55	0.500
2298	9375	9405	Viga A-170B Maciza	HP - 55	0.500
2299	9405	9406	Viga A-170B	HP - 55	0.500
2300	9406	9463	Viga A-170B	HP - 55	0.500
2301	9463	9492	Viga A-170B	HP - 55	0.500
2302	9492	9521	Viga A-170B	HP - 55	0.500
2303	9521	9550	Viga A-170B	HP - 55	0.500
2304	9550	9579	Viga A-170B	HP - 55	0.500
2305	9579	9608	Viga A-170B	HP - 55	0.500
2306	9608	9644	Viga A-170B	HP - 55	0.500
2307	9644	9674	Viga A-170B	HP - 55	0.500
2308	9674	9675	Viga A-170B	HP - 55	0.500
2309	9675	9732	Viga A-170B	HP - 55	0.500
2310	9732	9761	Viga A-170B	HP - 55	0.500
2311	9761	9790	Viga A-170B	HP - 55	0.500
2312	9790	9819	Viga A-170B	HP - 55	0.500
2313	9819	9848	Viga A-170B	HP - 55	0.500
2314	9848	9877	Viga A-170B	HP - 55	0.500
2315	9877	9913	Viga A-170B	HP - 55	0.500
2316	9913	9943	Viga A-170B	HP - 55	0.500
2317	9943	9944	Viga A-170B	HP - 55	0.500
2318	9944	10001	Viga A-170B	HP - 55	0.500
2319	10001	10030	Viga A-170B	HP - 55	0.500
2320	10030	10059	Viga A-170B	HP - 55	0.500
2321	10059	10088	Viga A-170B	HP - 55	0.500
2322	10088	10117	Viga A-170B	HP - 55	0.500
2323	10117	10146	Viga A-170B	HP - 55	0.500
2324	10146	10182	Viga A-170B	HP - 55	0.500
2325	10182	10212	Viga A-170B	HP - 55	0.500
2326	10212	10213	Viga A-170B	HP - 55	0.500
2327	10213	10270	Viga A-170B	HP - 55	0.500
2328	10270	10299	Viga A-170B	HP - 55	0.500
2329	10299	10328	Viga A-170B	HP - 55	0.500
2330	10328	10357	Viga A-170B	HP - 55	0.500
2331	10357	10386	Viga A-170B	HP - 55	0.500
2332	10386	10415	Viga A-170B	HP - 55	0.500
2333	10415	10451	Viga A-170B	HP - 55	0.500
2334	10451	10481	Viga A-170B	HP - 55	0.500
2335	10481	10482	Viga A-170B	HP - 55	0.500
2336	10482	10539	Viga A-170B	HP - 55	0.500
2337	10539	10568	Viga A-170B	HP - 55	0.500
2338	10568	10597	Viga A-170B	HP - 55	0.500
2339	10597	10626	Viga A-170B	HP - 55	0.500
2340	10626	10655	Viga A-170B Maciza	HP - 55	0.500
2341	10655	10684	Viga A-170B Maciza	HP - 55	0.500

Características de las Barras que Componen la Estructura

Nombre de la sección	SX (cm^2)	SY (cm^2)	SZ (cm^2)
Viga A-170B	10312.500	6521.248	5220.229
Viga A-170B Maciza	40677.500	36287.360	33416.766

Nombre de la sección	IX (cm^4)	IY (cm^4)	IZ (cm^4)
Viga A-170B	120264892.557	36501331.214	98700332.917
Viga A-170B Maciza	207550690.616	99782321.293	210077837.083

Paneles que Componen la Estructura

Panel	Espesor	Material	Tipo de malla	Superficie (m^2)	G1 (cm)	G2 (cm)
3001	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3002	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3003	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3004	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3005	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3006	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3007	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3008	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3009	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3010	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3011	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3012	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3013	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3014	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3015	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3016	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3017	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3018	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3019	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3020	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3021	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3022	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
3023	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
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3308	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
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3328	Losa Lat Izq	HA - 30	Coons	1.130	26.800	31.300
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4235	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4236	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4237	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4238	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4239	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4240	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4241	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4242	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4243	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4248	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4249	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4250	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4253	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4258	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4260	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4261	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4264	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4265	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4266	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4273	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4274	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4280	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4299	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4300	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4301	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4302	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4303	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4304	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4305	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4306	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4308	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4312	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4313	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4314	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4315	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4316	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4317	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4318	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4319	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4320	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4323	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4325	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4327	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4328	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4330	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4332	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4334	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4335	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4336	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4337	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4338	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
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4340	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
4341	Losa Medio Izq	HA - 30	Coons	1.340	36.700	39.000
5001	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5002	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5003	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5004	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5005	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5006	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5007	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5008	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
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5163	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
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5165	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5166	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5167	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5168	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5169	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5170	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5171	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5172	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5173	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5174	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5175	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5176	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5177	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
5178	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
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5181	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700

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5341	Losa Centr Izq	HA - 30	Coons	0.580	31.300	36.700
6001	Losa Medio Dcha	HA - 30	Coons	0.580	36.700	39.000
6002	Losa Medio Dcha	HA - 30	Coons	0.580	36.700	39.000
6003	Losa Medio Dcha	HA - 30	Coons	0.580	36.700	39.000
6004	Losa Medio Dcha	HA - 30	Coons	0.580	36.700	39.000
6005	Losa Medio Dcha	HA - 30	Coons	0.580	36.700	39.000
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6094	Losa Medio Dcha	HA - 30	Coons	0.580	36.700	39.000
6095	Losa Medio Dcha	HA - 30	Coons	0.580	36.700	39.000
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6143	Losa Medio Dcha	HA - 30	Coons	0.580	36.700	39.000
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6340	Losa Medio Dcha	HA - 30	Coons	0.580	36.700	39.000
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7001	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7002	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7003	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700

7004	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7005	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7006	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7007	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7008	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7009	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7010	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7011	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7012	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7013	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7014	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7015	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7016	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7017	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7018	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7019	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7020	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7021	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7022	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7023	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7024	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7025	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
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7028	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
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7040	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7041	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7042	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7043	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7044	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7045	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7046	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7047	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
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7296	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7297	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7298	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7299	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7300	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7301	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7302	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7303	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7304	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7305	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7306	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7307	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7308	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7309	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7310	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7311	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7312	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7313	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7314	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7315	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7316	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7317	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7318	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7319	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7320	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7321	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7322	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7323	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7324	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7325	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7326	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7327	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7328	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7329	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7330	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7331	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7332	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7333	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7334	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7335	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7336	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7337	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7338	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7339	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7340	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
7341	Losa Centr Dcha	HA - 30	Coons	1.340	31.300	36.700
8001	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8002	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8003	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8004	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8005	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8006	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8007	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8008	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8009	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8010	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8011	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8012	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8013	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8014	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8015	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8016	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8017	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8018	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8019	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8020	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
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8053	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
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8101	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
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8111	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
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8170	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
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8215	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8216	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8217	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
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8219	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
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8227	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8228	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8229	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300

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8231	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8232	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8233	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8234	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8235	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8236	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8237	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8238	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8239	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8240	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8241	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8242	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8243	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8244	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8245	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8246	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8247	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8248	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8249	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8250	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8251	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8252	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8253	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8254	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8255	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8256	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8257	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8258	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8259	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8260	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8261	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8262	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8263	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8264	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8265	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8266	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8267	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8268	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8269	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8270	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8271	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8272	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8273	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8274	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8275	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8276	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8277	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8278	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8279	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8280	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8281	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8282	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8283	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8284	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8285	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8286	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8287	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8288	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8289	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8290	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8291	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8292	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300

8293	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8294	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8295	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8296	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8297	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8298	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8299	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8300	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8301	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8302	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8303	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8304	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8305	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8306	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8307	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8308	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8309	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8310	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8311	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8312	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8313	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8314	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8315	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8316	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8317	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8318	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8319	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8320	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8321	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8322	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8323	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8324	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8325	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8326	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8327	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8328	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8329	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8330	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8331	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8332	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8333	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8334	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8335	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8336	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8337	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8338	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8339	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8340	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300
8341	Losa Lat Dcha	HA - 30	Coons	1.130	26.800	31.300

Características de los Paneles que Componen la Estructura

Nombre de espesor	Lista de paneles	Material	Tipo de espesor	G1 (cm)	G2 (cm)
Losa Lat Dcha	8001A8341	HA - 30	variable linealmente	26.800	31.300
Losa Centr Dcha	7001A7341	HA - 30	variable linealmente	31.300	36.700
Losa Medio Dcha	6001A6341	HA - 30	variable linealmente	36.700	39.000
Losa Lat Izq	3001A3341	HA - 30	variable linealmente	26.800	31.300
Losa Medio Izq	4001A4341	HA - 30	variable linealmente	36.700	39.000
Losa Centr Izq	5001A5341	HA - 30	variable linealmente	31.300	36.700

Apoyos Aplicados a la Estructura

Nombre del apoyo	Lista de nudos	Condiciones de apoyo
Apoyo Libre Long Estribos	99 10685	UY UZ RX
Apoyo Libre Estribos	80 10684	UZ RX
Apoyo Libre Long	1851 3700 7332 9224	UY UZ
Apoyo Libre	1850 3699 5543 7331 9223	UZ
Apoyo Fijo	5545	UX UY UZ

Uniones Rígidas Aplicadas a la Estructura

Nombre de la unión	Nudo principal	nudos secundarios	Condiciones de la unión
Unión Viga-Losa	98	15 130	UX UY UZ RX RY RZ
Unión Viga-Losa	97	18 190	UX UY UZ RX RY RZ
Unión Viga-Losa	96	21 210	UX UY UZ RX RY RZ
Unión Viga-Losa	95	24 230	UX UY UZ RX RY RZ
Unión Viga-Losa	94	27 250	UX UY UZ RX RY RZ
Unión Viga-Losa	93	30 270	UX UY UZ RX RY RZ
Unión Viga-Losa	92	33 290	UX UY UZ RX RY RZ
Unión Viga-Losa	90	36 310	UX UY UZ RX RY RZ
Unión Viga-Losa	91	39 330	UX UY UZ RX RY RZ
Unión Viga-Losa	81	49 102	UX UY UZ RX RY RZ
Unión Viga-Losa	82	48 178	UX UY UZ RX RY RZ
Unión Viga-Losa	83	47 198	UX UY UZ RX RY RZ
Unión Viga-Losa	84	46 218	UX UY UZ RX RY RZ
Unión Viga-Losa	85	45 238	UX UY UZ RX RY RZ
Unión Viga-Losa	86	44 258	UX UY UZ RX RY RZ
Unión Viga-Losa	87	43 278	UX UY UZ RX RY RZ
Unión Viga-Losa	88	41 298	UX UY UZ RX RY RZ
Unión Viga-Losa	89	42 318	UX UY UZ RX RY RZ
Unión Viga-Losa	613	653 663	UX UY UZ RX RY RZ
Unión Viga-Losa	614	656 664	UX UY UZ RX RY RZ
Unión Viga-Losa	670	691 695	UX UY UZ RX RY RZ
Unión Viga-Losa	699	720 724	UX UY UZ RX RY RZ
Unión Viga-Losa	728	749 753	UX UY UZ RX RY RZ
Unión Viga-Losa	757	778 782	UX UY UZ RX RY RZ
Unión Viga-Losa	786	807 811	UX UY UZ RX RY RZ
Unión Viga-Losa	815	843 847	UX UY UZ RX RY RZ
Unión Viga-Losa	851	872 876	UX UY UZ RX RY RZ
Unión Viga-Losa	611	621 631	UX UY UZ RX RY RZ
Unión Viga-Losa	612	624 632	UX UY UZ RX RY RZ
Unión Viga-Losa	669	675 679	UX UY UZ RX RY RZ
Unión Viga-Losa	698	704 708	UX UY UZ RX RY RZ
Unión Viga-Losa	727	733 737	UX UY UZ RX RY RZ
Unión Viga-Losa	756	762 766	UX UY UZ RX RY RZ
Unión Viga-Losa	785	791 795	UX UY UZ RX RY RZ
Unión Viga-Losa	814	827 831	UX UY UZ RX RY RZ
Unión Viga-Losa	850	856 860	UX UY UZ RX RY RZ
Unión Viga-Losa	888	928 938	UX UY UZ RX RY RZ
Unión Viga-Losa	889	931 939	UX UY UZ RX RY RZ
Unión Viga-Losa	945	966 970	UX UY UZ RX RY RZ
Unión Viga-Losa	974	995 999	UX UY UZ RX RY RZ
Unión Viga-Losa	1003	1024 1028	UX UY UZ RX RY RZ
Unión Viga-Losa	1032	1053 1057	UX UY UZ RX RY RZ
Unión Viga-Losa	1061	1082 1086	UX UY UZ RX RY RZ
Unión Viga-Losa	1090	1118 1122	UX UY UZ RX RY RZ
Unión Viga-Losa	1126	1147 1151	UX UY UZ RX RY RZ
Unión Viga-Losa	886	896 906	UX UY UZ RX RY RZ
Unión Viga-Losa	887	899 907	UX UY UZ RX RY RZ
Unión Viga-Losa	944	950 954	UX UY UZ RX RY RZ
Unión Viga-Losa	973	979 983	UX UY UZ RX RY RZ
Unión Viga-Losa	1002	1008 1012	UX UY UZ RX RY RZ
Unión Viga-Losa	1031	1037 1041	UX UY UZ RX RY RZ
Unión Viga-Losa	1060	1066 1070	UX UY UZ RX RY RZ
Unión Viga-Losa	1089	1102 1106	UX UY UZ RX RY RZ
Unión Viga-Losa	1125	1131 1135	UX UY UZ RX RY RZ
Unión Viga-Losa	1157	1197 1207	UX UY UZ RX RY RZ
Unión Viga-Losa	1158	1200 1208	UX UY UZ RX RY RZ
Unión Viga-Losa	1214	1235 1239	UX UY UZ RX RY RZ
Unión Viga-Losa	1243	1264 1268	UX UY UZ RX RY RZ
Unión Viga-Losa	1272	1293 1297	UX UY UZ RX RY RZ
Unión Viga-Losa	1301	1322 1326	UX UY UZ RX RY RZ
Unión Viga-Losa	1330	1351 1355	UX UY UZ RX RY RZ
Unión Viga-Losa	1359	1387 1391	UX UY UZ RX RY RZ
Unión Viga-Losa	1395	1416 1420	UX UY UZ RX RY RZ
Unión Viga-Losa	1155	1165 1175	UX UY UZ RX RY RZ
Unión Viga-Losa	1156	1168 1176	UX UY UZ RX RY RZ
Unión Viga-Losa	1213	1219 1223	UX UY UZ RX RY RZ
Unión Viga-Losa	1242	1248 1252	UX UY UZ RX RY RZ
Unión Viga-Losa	1271	1277 1281	UX UY UZ RX RY RZ
Unión Viga-Losa	1300	1306 1310	UX UY UZ RX RY RZ
Unión Viga-Losa	1329	1335 1339	UX UY UZ RX RY RZ
Unión Viga-Losa	1358	1371 1375	UX UY UZ RX RY RZ
Unión Viga-Losa	1394	1400 1404	UX UY UZ RX RY RZ
Unión Viga-Losa	1438	1478 1488	UX UY UZ RX RY RZ
Unión Viga-Losa	1439	1481 1489	UX UY UZ RX RY RZ
Unión Viga-Losa	1495	1516 1520	UX UY UZ RX RY RZ
Unión Viga-Losa	1524	1545 1549	UX UY UZ RX RY RZ
Unión Viga-Losa	1553	1574 1578	UX UY UZ RX RY RZ
Unión Viga-Losa	1582	1603 1607	UX UY UZ RX RY RZ
Unión Viga-Losa	1611	1632 1636	UX UY UZ RX RY RZ
Unión Viga-Losa	1640	1668 1672	UX UY UZ RX RY RZ
Unión Viga-Losa	1676	1697 1701	UX UY UZ RX RY RZ
Unión Viga-Losa	1436	1446 1456	UX UY UZ RX RY RZ
Unión Viga-Losa	1437	1449 1457	UX UY UZ RX RY RZ
Unión Viga-Losa	1494	1500 1504	UX UY UZ RX RY RZ
Unión Viga-Losa	1523	1529 1533	UX UY UZ RX RY RZ
Unión Viga-Losa	1552	1558 1562	UX UY UZ RX RY RZ
Unión Viga-Losa	1581	1587 1591	UX UY UZ RX RY RZ
Unión Viga-Losa	1610	1616 1620	UX UY UZ RX RY RZ
Unión Viga-Losa	1639	1652 1656	UX UY UZ RX RY RZ
Unión Viga-Losa	1675	1681 1685	UX UY UZ RX RY RZ
Unión Viga-Losa	1707	1747 1757	UX UY UZ RX RY RZ
Unión Viga-Losa	1708	1750 1758	UX UY UZ RX RY RZ
Unión Viga-Losa	1764	1785 1789	UX UY UZ RX RY RZ
Unión Viga-Losa	1793	1814 1818	UX UY UZ RX RY RZ
Unión Viga-Losa	1822	1843 1847	UX UY UZ RX RY RZ
Unión Viga-Losa	1880	1901 1905	UX UY UZ RX RY RZ
Unión Viga-Losa	1909	1937 1941	UX UY UZ RX RY RZ
Unión Viga-Losa	1945	1966 1970	UX UY UZ RX RY RZ
Unión Viga-Losa	1705	1715 1725	UX UY UZ RX RY RZ
Unión Viga-Losa	1706	1718 1726	UX UY UZ RX RY RZ
Unión Viga-Losa	1763	1769 1773	UX UY UZ RX RY RZ
Unión Viga-Losa	1792	1798 1802	UX UY UZ RX RY RZ
Unión Viga-Losa	1821	1827 1831	UX UY UZ RX RY RZ
Unión Viga-Losa	1879	1885 1889	UX UY UZ RX RY RZ
Unión Viga-Losa	1908	1921 1925	UX UY UZ RX RY RZ
Unión Viga-Losa	1944	1950 1954	UX UY UZ RX RY RZ
Unión Viga-Losa	1976	2016 2026	UX UY UZ RX RY RZ
Unión Viga-Losa	1977	2019 2027	UX UY UZ RX RY RZ
Unión Viga-Losa	2033	2054 2058	UX UY UZ RX RY RZ
Unión Viga-Losa	2062	2083 2087	UX UY UZ RX RY RZ
Unión Viga-Losa	2091	2112 2116	UX UY UZ RX RY RZ
Unión Viga-Losa	2120	2141 2145	UX UY UZ RX RY RZ
Unión Viga-Losa	2149	2170 2174	UX UY UZ RX RY RZ
Unión Viga-Losa	2178	2206 2210	UX UY UZ RX RY RZ
Unión Viga-Losa	2214	2235 2239	UX UY UZ RX RY RZ
Unión Viga-Losa	1974	1984 1994	UX UY UZ RX RY RZ
Unión Viga-Losa	1975	1987 1995	UX UY UZ RX RY RZ
Unión Viga-Losa	2032	2038 2042	UX UY UZ RX RY RZ
Unión Viga-Losa	2061	2067 2071	UX UY UZ RX RY RZ
Unión Viga-Losa	2090	2096 2100	UX UY UZ RX RY RZ
Unión Viga-Losa	2119	2125 2129	UX UY UZ RX RY RZ
Unión Viga-Losa	2148	2154 2158	UX UY UZ RX RY RZ

Unión Viga-Losa	2177	2190 2194	UX UY UZ RX RY RZ
Unión Viga-Losa	2213	2219 2223	UX UY UZ RX RY RZ
Unión Viga-Losa	2245	2285 2295	UX UY UZ RX RY RZ
Unión Viga-Losa	2246	2288 2296	UX UY UZ RX RY RZ
Unión Viga-Losa	2302	2323 2327	UX UY UZ RX RY RZ
Unión Viga-Losa	2331	2352 2356	UX UY UZ RX RY RZ
Unión Viga-Losa	2360	2381 2385	UX UY UZ RX RY RZ
Unión Viga-Losa	2389	2410 2414	UX UY UZ RX RY RZ
Unión Viga-Losa	2418	2439 2443	UX UY UZ RX RY RZ
Unión Viga-Losa	2447	2475 2479	UX UY UZ RX RY RZ
Unión Viga-Losa	2483	2504 2508	UX UY UZ RX RY RZ
Unión Viga-Losa	2243	2253 2263	UX UY UZ RX RY RZ
Unión Viga-Losa	2244	2256 2264	UX UY UZ RX RY RZ
Unión Viga-Losa	2301	2307 2311	UX UY UZ RX RY RZ
Unión Viga-Losa	2330	2336 2340	UX UY UZ RX RY RZ
Unión Viga-Losa	2359	2365 2369	UX UY UZ RX RY RZ
Unión Viga-Losa	2388	2394 2398	UX UY UZ RX RY RZ
Unión Viga-Losa	2417	2423 2427	UX UY UZ RX RY RZ
Unión Viga-Losa	2446	2459 2463	UX UY UZ RX RY RZ
Unión Viga-Losa	2482	2488 2492	UX UY UZ RX RY RZ
Unión Viga-Losa	2538	2578 2588	UX UY UZ RX RY RZ
Unión Viga-Losa	2539	2581 2589	UX UY UZ RX RY RZ
Unión Viga-Losa	2595	2616 2620	UX UY UZ RX RY RZ
Unión Viga-Losa	2624	2645 2649	UX UY UZ RX RY RZ
Unión Viga-Losa	2653	2674 2678	UX UY UZ RX RY RZ
Unión Viga-Losa	2682	2703 2707	UX UY UZ RX RY RZ
Unión Viga-Losa	2711	2732 2736	UX UY UZ RX RY RZ
Unión Viga-Losa	2740	2768 2772	UX UY UZ RX RY RZ
Unión Viga-Losa	2776	2797 2801	UX UY UZ RX RY RZ
Unión Viga-Losa	2536	2546 2556	UX UY UZ RX RY RZ
Unión Viga-Losa	2537	2549 2557	UX UY UZ RX RY RZ
Unión Viga-Losa	2594	2600 2604	UX UY UZ RX RY RZ
Unión Viga-Losa	2623	2629 2633	UX UY UZ RX RY RZ
Unión Viga-Losa	2652	2658 2662	UX UY UZ RX RY RZ
Unión Viga-Losa	2681	2687 2691	UX UY UZ RX RY RZ
Unión Viga-Losa	2710	2716 2720	UX UY UZ RX RY RZ
Unión Viga-Losa	2739	2752 2756	UX UY UZ RX RY RZ
Unión Viga-Losa	2775	2781 2785	UX UY UZ RX RY RZ
Unión Viga-Losa	2807	2847 2857	UX UY UZ RX RY RZ
Unión Viga-Losa	2808	2850 2858	UX UY UZ RX RY RZ
Unión Viga-Losa	2864	2885 2889	UX UY UZ RX RY RZ
Unión Viga-Losa	2893	2914 2918	UX UY UZ RX RY RZ
Unión Viga-Losa	2922	2943 2947	UX UY UZ RX RY RZ
Unión Viga-Losa	2951	2972 2976	UX UY UZ RX RY RZ
Unión Viga-Losa	2980	3001 3005	UX UY UZ RX RY RZ
Unión Viga-Losa	3009	3037 3041	UX UY UZ RX RY RZ
Unión Viga-Losa	3045	3066 3070	UX UY UZ RX RY RZ
Unión Viga-Losa	2805	2815 2825	UX UY UZ RX RY RZ
Unión Viga-Losa	2806	2818 2826	UX UY UZ RX RY RZ
Unión Viga-Losa	2863	2869 2873	UX UY UZ RX RY RZ
Unión Viga-Losa	2892	2898 2902	UX UY UZ RX RY RZ
Unión Viga-Losa	2921	2927 2931	UX UY UZ RX RY RZ
Unión Viga-Losa	2950	2956 2960	UX UY UZ RX RY RZ
Unión Viga-Losa	2979	2985 2989	UX UY UZ RX RY RZ
Unión Viga-Losa	3008	3021 3025	UX UY UZ RX RY RZ
Unión Viga-Losa	3044	3050 3054	UX UY UZ RX RY RZ
Unión Viga-Losa	3076	3116 3126	UX UY UZ RX RY RZ
Unión Viga-Losa	3077	3119 3127	UX UY UZ RX RY RZ
Unión Viga-Losa	3133	3154 3158	UX UY UZ RX RY RZ
Unión Viga-Losa	3162	3183 3187	UX UY UZ RX RY RZ
Unión Viga-Losa	3191	3212 3216	UX UY UZ RX RY RZ
Unión Viga-Losa	3220	3241 3245	UX UY UZ RX RY RZ
Unión Viga-Losa	3249	3270 3274	UX UY UZ RX RY RZ

Unión Viga-Losa	3278	3306 3310	UX UY UZ RX RY RZ
Unión Viga-Losa	3314	3335 3339	UX UY UZ RX RY RZ
Unión Viga-Losa	3074	3084 3094	UX UY UZ RX RY RZ
Unión Viga-Losa	3075	3087 3095	UX UY UZ RX RY RZ
Unión Viga-Losa	3132	3138 3142	UX UY UZ RX RY RZ
Unión Viga-Losa	3161	3167 3171	UX UY UZ RX RY RZ
Unión Viga-Losa	3190	3196 3200	UX UY UZ RX RY RZ
Unión Viga-Losa	3219	3225 3229	UX UY UZ RX RY RZ
Unión Viga-Losa	3248	3254 3258	UX UY UZ RX RY RZ
Unión Viga-Losa	3277	3290 3294	UX UY UZ RX RY RZ
Unión Viga-Losa	3313	3319 3323	UX UY UZ RX RY RZ
Unión Viga-Losa	3345	3385 3395	UX UY UZ RX RY RZ
Unión Viga-Losa	3346	3388 3396	UX UY UZ RX RY RZ
Unión Viga-Losa	3402	3423 3427	UX UY UZ RX RY RZ
Unión Viga-Losa	3431	3452 3456	UX UY UZ RX RY RZ
Unión Viga-Losa	3460	3481 3485	UX UY UZ RX RY RZ
Unión Viga-Losa	3489	3510 3514	UX UY UZ RX RY RZ
Unión Viga-Losa	3518	3539 3543	UX UY UZ RX RY RZ
Unión Viga-Losa	3547	3575 3579	UX UY UZ RX RY RZ
Unión Viga-Losa	3583	3604 3608	UX UY UZ RX RY RZ
Unión Viga-Losa	3343	3353 3363	UX UY UZ RX RY RZ
Unión Viga-Losa	3344	3356 3364	UX UY UZ RX RY RZ
Unión Viga-Losa	3401	3407 3411	UX UY UZ RX RY RZ
Unión Viga-Losa	3430	3436 3440	UX UY UZ RX RY RZ
Unión Viga-Losa	3459	3465 3469	UX UY UZ RX RY RZ
Unión Viga-Losa	3488	3494 3498	UX UY UZ RX RY RZ
Unión Viga-Losa	3517	3523 3527	UX UY UZ RX RY RZ
Unión Viga-Losa	3546	3559 3563	UX UY UZ RX RY RZ
Unión Viga-Losa	3582	3588 3592	UX UY UZ RX RY RZ
Unión Viga-Losa	3614	3654 3664	UX UY UZ RX RY RZ
Unión Viga-Losa	3615	3657 3665	UX UY UZ RX RY RZ
Unión Viga-Losa	3671	3692 3696	UX UY UZ RX RY RZ
Unión Viga-Losa	3729	3750 3754	UX UY UZ RX RY RZ
Unión Viga-Losa	3758	3779 3783	UX UY UZ RX RY RZ
Unión Viga-Losa	3787	3808 3812	UX UY UZ RX RY RZ
Unión Viga-Losa	3816	3844 3848	UX UY UZ RX RY RZ
Unión Viga-Losa	3852	3873 3877	UX UY UZ RX RY RZ
Unión Viga-Losa	3612	3622 3632	UX UY UZ RX RY RZ
Unión Viga-Losa	3613	3625 3633	UX UY UZ RX RY RZ
Unión Viga-Losa	3670	3676 3680	UX UY UZ RX RY RZ
Unión Viga-Losa	3728	3734 3738	UX UY UZ RX RY RZ
Unión Viga-Losa	3757	3763 3767	UX UY UZ RX RY RZ
Unión Viga-Losa	3786	3792 3796	UX UY UZ RX RY RZ
Unión Viga-Losa	3815	3828 3832	UX UY UZ RX RY RZ
Unión Viga-Losa	3851	3857 3861	UX UY UZ RX RY RZ
Unión Viga-Losa	3883	3923 3933	UX UY UZ RX RY RZ
Unión Viga-Losa	3884	3926 3934	UX UY UZ RX RY RZ
Unión Viga-Losa	3940	3961 3965	UX UY UZ RX RY RZ
Unión Viga-Losa	3969	3990 3994	UX UY UZ RX RY RZ
Unión Viga-Losa	3998	4019 4023	UX UY UZ RX RY RZ
Unión Viga-Losa	4027	4048 4052	UX UY UZ RX RY RZ
Unión Viga-Losa	4056	4077 4081	UX UY UZ RX RY RZ
Unión Viga-Losa	4085	4113 4117	UX UY UZ RX RY RZ
Unión Viga-Losa	4121	4142 4146	UX UY UZ RX RY RZ
Unión Viga-Losa	3881	3891 3901	UX UY UZ RX RY RZ
Unión Viga-Losa	3882	3894 3902	UX UY UZ RX RY RZ
Unión Viga-Losa	3939	3945 3949	UX UY UZ RX RY RZ
Unión Viga-Losa	3968	3974 3978	UX UY UZ RX RY RZ
Unión Viga-Losa	3997	4003 4007	UX UY UZ RX RY RZ
Unión Viga-Losa	4026	4032 4036	UX UY UZ RX RY RZ
Unión Viga-Losa	4055	4061 4065	UX UY UZ RX RY RZ
Unión Viga-Losa	4084	4097 4101	UX UY UZ RX RY RZ
Unión Viga-Losa	4120	4126 4130	UX UY UZ RX RY RZ

Unión Viga-Losa	4152	4192 4202	UX UY UZ RX RY RZ
Unión Viga-Losa	4153	4195 4203	UX UY UZ RX RY RZ
Unión Viga-Losa	4209	4230 4234	UX UY UZ RX RY RZ
Unión Viga-Losa	4238	4259 4263	UX UY UZ RX RY RZ
Unión Viga-Losa	4267	4288 4292	UX UY UZ RX RY RZ
Unión Viga-Losa	4296	4317 4321	UX UY UZ RX RY RZ
Unión Viga-Losa	4325	4346 4350	UX UY UZ RX RY RZ
Unión Viga-Losa	4354	4382 4386	UX UY UZ RX RY RZ
Unión Viga-Losa	4390	4411 4415	UX UY UZ RX RY RZ
Unión Viga-Losa	4150	4160 4170	UX UY UZ RX RY RZ
Unión Viga-Losa	4151	4163 4171	UX UY UZ RX RY RZ
Unión Viga-Losa	4208	4214 4218	UX UY UZ RX RY RZ
Unión Viga-Losa	4237	4243 4247	UX UY UZ RX RY RZ
Unión Viga-Losa	4266	4272 4276	UX UY UZ RX RY RZ
Unión Viga-Losa	4295	4301 4305	UX UY UZ RX RY RZ
Unión Viga-Losa	4324	4330 4334	UX UY UZ RX RY RZ
Unión Viga-Losa	4353	4366 4370	UX UY UZ RX RY RZ
Unión Viga-Losa	4389	4395 4399	UX UY UZ RX RY RZ
Unión Viga-Losa	4421	4461 4471	UX UY UZ RX RY RZ
Unión Viga-Losa	4422	4464 4472	UX UY UZ RX RY RZ
Unión Viga-Losa	4478	4499 4503	UX UY UZ RX RY RZ
Unión Viga-Losa	4507	4528 4532	UX UY UZ RX RY RZ
Unión Viga-Losa	4536	4557 4561	UX UY UZ RX RY RZ
Unión Viga-Losa	4565	4586 4590	UX UY UZ RX RY RZ
Unión Viga-Losa	4594	4615 4619	UX UY UZ RX RY RZ
Unión Viga-Losa	4623	4651 4655	UX UY UZ RX RY RZ
Unión Viga-Losa	4659	4680 4684	UX UY UZ RX RY RZ
Unión Viga-Losa	4419	4429 4439	UX UY UZ RX RY RZ
Unión Viga-Losa	4420	4432 4440	UX UY UZ RX RY RZ
Unión Viga-Losa	4477	4483 4487	UX UY UZ RX RY RZ
Unión Viga-Losa	4506	4512 4516	UX UY UZ RX RY RZ
Unión Viga-Losa	4535	4541 4545	UX UY UZ RX RY RZ
Unión Viga-Losa	4564	4570 4574	UX UY UZ RX RY RZ
Unión Viga-Losa	4593	4599 4603	UX UY UZ RX RY RZ
Unión Viga-Losa	4622	4635 4639	UX UY UZ RX RY RZ
Unión Viga-Losa	4658	4664 4668	UX UY UZ RX RY RZ
Unión Viga-Losa	4738	4778 4788	UX UY UZ RX RY RZ
Unión Viga-Losa	4739	4781 4789	UX UY UZ RX RY RZ
Unión Viga-Losa	4795	4816 4820	UX UY UZ RX RY RZ
Unión Viga-Losa	4824	4845 4849	UX UY UZ RX RY RZ
Unión Viga-Losa	4853	4874 4878	UX UY UZ RX RY RZ
Unión Viga-Losa	4882	4903 4907	UX UY UZ RX RY RZ
Unión Viga-Losa	4911	4932 4936	UX UY UZ RX RY RZ
Unión Viga-Losa	4940	4968 4972	UX UY UZ RX RY RZ
Unión Viga-Losa	4976	4997 5001	UX UY UZ RX RY RZ
Unión Viga-Losa	4736	4746 4756	UX UY UZ RX RY RZ
Unión Viga-Losa	4737	4749 4757	UX UY UZ RX RY RZ
Unión Viga-Losa	4794	4800 4804	UX UY UZ RX RY RZ
Unión Viga-Losa	4823	4829 4833	UX UY UZ RX RY RZ
Unión Viga-Losa	4852	4858 4862	UX UY UZ RX RY RZ
Unión Viga-Losa	4881	4887 4891	UX UY UZ RX RY RZ
Unión Viga-Losa	4910	4916 4920	UX UY UZ RX RY RZ
Unión Viga-Losa	4939	4952 4956	UX UY UZ RX RY RZ
Unión Viga-Losa	4975	4981 4985	UX UY UZ RX RY RZ
Unión Viga-Losa	5007	5047 5057	UX UY UZ RX RY RZ
Unión Viga-Losa	5008	5050 5058	UX UY UZ RX RY RZ
Unión Viga-Losa	5064	5085 5089	UX UY UZ RX RY RZ
Unión Viga-Losa	5093	5114 5118	UX UY UZ RX RY RZ
Unión Viga-Losa	5122	5143 5147	UX UY UZ RX RY RZ
Unión Viga-Losa	5151	5172 5176	UX UY UZ RX RY RZ
Unión Viga-Losa	5180	5201 5205	UX UY UZ RX RY RZ
Unión Viga-Losa	5209	5237 5241	UX UY UZ RX RY RZ
Unión Viga-Losa	5245	5266 5270	UX UY UZ RX RY RZ

Unión Viga-Losa	5005	5015 5025	UX UY UZ RX RY RZ
Unión Viga-Losa	5006	5018 5026	UX UY UZ RX RY RZ
Unión Viga-Losa	5063	5069 5073	UX UY UZ RX RY RZ
Unión Viga-Losa	5092	5098 5102	UX UY UZ RX RY RZ
Unión Viga-Losa	5121	5127 5131	UX UY UZ RX RY RZ
Unión Viga-Losa	5150	5156 5160	UX UY UZ RX RY RZ
Unión Viga-Losa	5179	5185 5189	UX UY UZ RX RY RZ
Unión Viga-Losa	5208	5221 5225	UX UY UZ RX RY RZ
Unión Viga-Losa	5244	5250 5254	UX UY UZ RX RY RZ
Unión Viga-Losa	5276	5316 5326	UX UY UZ RX RY RZ
Unión Viga-Losa	5277	5319 5327	UX UY UZ RX RY RZ
Unión Viga-Losa	5333	5354 5358	UX UY UZ RX RY RZ
Unión Viga-Losa	5362	5383 5387	UX UY UZ RX RY RZ
Unión Viga-Losa	5391	5412 5416	UX UY UZ RX RY RZ
Unión Viga-Losa	5420	5441 5445	UX UY UZ RX RY RZ
Unión Viga-Losa	5449	5470 5474	UX UY UZ RX RY RZ
Unión Viga-Losa	5478	5506 5510	UX UY UZ RX RY RZ
Unión Viga-Losa	5514	5535 5539	UX UY UZ RX RY RZ
Unión Viga-Losa	5274	5284 5294	UX UY UZ RX RY RZ
Unión Viga-Losa	5275	5287 5295	UX UY UZ RX RY RZ
Unión Viga-Losa	5332	5338 5342	UX UY UZ RX RY RZ
Unión Viga-Losa	5361	5367 5371	UX UY UZ RX RY RZ
Unión Viga-Losa	5390	5396 5400	UX UY UZ RX RY RZ
Unión Viga-Losa	5419	5425 5429	UX UY UZ RX RY RZ
Unión Viga-Losa	5448	5454 5458	UX UY UZ RX RY RZ
Unión Viga-Losa	5477	5490 5494	UX UY UZ RX RY RZ
Unión Viga-Losa	5513	5519 5523	UX UY UZ RX RY RZ
Unión Viga-Losa	5546	5588 5596	UX UY UZ RX RY RZ
Unión Viga-Losa	5602	5623 5627	UX UY UZ RX RY RZ
Unión Viga-Losa	5631	5652 5656	UX UY UZ RX RY RZ
Unión Viga-Losa	5660	5681 5685	UX UY UZ RX RY RZ
Unión Viga-Losa	5689	5710 5714	UX UY UZ RX RY RZ
Unión Viga-Losa	5718	5739 5743	UX UY UZ RX RY RZ
Unión Viga-Losa	5747	5775 5779	UX UY UZ RX RY RZ
Unión Viga-Losa	5783	5804 5808	UX UY UZ RX RY RZ
Unión Viga-Losa	5544	5556 5564	UX UY UZ RX RY RZ
Unión Viga-Losa	5601	5607 5611	UX UY UZ RX RY RZ
Unión Viga-Losa	5630	5636 5640	UX UY UZ RX RY RZ
Unión Viga-Losa	5659	5665 5669	UX UY UZ RX RY RZ
Unión Viga-Losa	5688	5694 5698	UX UY UZ RX RY RZ
Unión Viga-Losa	5717	5723 5727	UX UY UZ RX RY RZ
Unión Viga-Losa	5746	5759 5763	UX UY UZ RX RY RZ
Unión Viga-Losa	5782	5788 5792	UX UY UZ RX RY RZ
Unión Viga-Losa	5814	5854 5864	UX UY UZ RX RY RZ
Unión Viga-Losa	5815	5857 5865	UX UY UZ RX RY RZ
Unión Viga-Losa	5871	5892 5896	UX UY UZ RX RY RZ
Unión Viga-Losa	5900	5921 5925	UX UY UZ RX RY RZ
Unión Viga-Losa	5929	5950 5954	UX UY UZ RX RY RZ
Unión Viga-Losa	5958	5979 5983	UX UY UZ RX RY RZ
Unión Viga-Losa	5987	6008 6012	UX UY UZ RX RY RZ
Unión Viga-Losa	6016	6044 6048	UX UY UZ RX RY RZ
Unión Viga-Losa	6052	6073 6077	UX UY UZ RX RY RZ
Unión Viga-Losa	5812	5822 5832	UX UY UZ RX RY RZ
Unión Viga-Losa	5813	5825 5833	UX UY UZ RX RY RZ
Unión Viga-Losa	5870	5876 5880	UX UY UZ RX RY RZ
Unión Viga-Losa	5899	5905 5909	UX UY UZ RX RY RZ
Unión Viga-Losa	5928	5934 5938	UX UY UZ RX RY RZ
Unión Viga-Losa	5957	5963 5967	UX UY UZ RX RY RZ
Unión Viga-Losa	5986	5992 5996	UX UY UZ RX RY RZ
Unión Viga-Losa	6015	6028 6032	UX UY UZ RX RY RZ
Unión Viga-Losa	6051	6057 6061	UX UY UZ RX RY RZ
Unión Viga-Losa	6083	6123 6133	UX UY UZ RX RY RZ
Unión Viga-Losa	6084	6126 6134	UX UY UZ RX RY RZ
Unión Viga-Losa	6140	6161 6165	UX UY UZ RX RY RZ
Unión Viga-Losa	6169	6190 6194	UX UY UZ RX RY RZ
Unión Viga-Losa	6198	6219 6223	UX UY UZ RX RY RZ
Unión Viga-Losa	6227	6248 6252	UX UY UZ RX RY RZ
Unión Viga-Losa	6256	6277 6281	UX UY UZ RX RY RZ
Unión Viga-Losa	6285	6313 6317	UX UY UZ RX RY RZ
Unión Viga-Losa	6321	6342 6346	UX UY UZ RX RY RZ
Unión Viga-Losa	6081	6091 6101	UX UY UZ RX RY RZ
Unión Viga-Losa	6082	6094 6102	UX UY UZ RX RY RZ
Unión Viga-Losa	6139	6145 6149	UX UY UZ RX RY RZ
Unión Viga-Losa	6168	6174 6178	UX UY UZ RX RY RZ
Unión Viga-Losa	6197	6203 6207	UX UY UZ RX RY RZ
Unión Viga-Losa	6226	6232 6236	UX UY UZ RX RY RZ
Unión Viga-Losa	6255	6261 6265	UX UY UZ RX RY RZ
Unión Viga-Losa	6284	6297 6301	UX UY UZ RX RY RZ
Unión Viga-Losa	6320	6326 6330	UX UY UZ RX RY RZ
Unión Viga-Losa	6352	6392 6402	UX UY UZ RX RY RZ
Unión Viga-Losa	6353	6395 6403	UX UY UZ RX RY RZ
Unión Viga-Losa	6409	6430 6434	UX UY UZ RX RY RZ
Unión Viga-Losa	6438	6459 6463	UX UY UZ RX RY RZ
Unión Viga-Losa	6467	6488 6492	UX UY UZ RX RY RZ
Unión Viga-Losa	6496	6517 6521	UX UY UZ RX RY RZ
Unión Viga-Losa	6525	6546 6550	UX UY UZ RX RY RZ
Unión Viga-Losa	6554	6582 6586	UX UY UZ RX RY RZ
Unión Viga-Losa	6590	6611 6615	UX UY UZ RX RY RZ
Unión Viga-Losa	6350	6360 6370	UX UY UZ RX RY RZ
Unión Viga-Losa	6351	6363 6371	UX UY UZ RX RY RZ
Unión Viga-Losa	6408	6414 6418	UX UY UZ RX RY RZ
Unión Viga-Losa	6437	6443 6447	UX UY UZ RX RY RZ
Unión Viga-Losa	6466	6472 6476	UX UY UZ RX RY RZ
Unión Viga-Losa	6495	6501 6505	UX UY UZ RX RY RZ
Unión Viga-Losa	6524	6530 6534	UX UY UZ RX RY RZ
Unión Viga-Losa	6553	6566 6570	UX UY UZ RX RY RZ
Unión Viga-Losa	6589	6595 6599	UX UY UZ RX RY RZ
Unión Viga-Losa	6621	6661 6671	UX UY UZ RX RY RZ
Unión Viga-Losa	6622	6664 6672	UX UY UZ RX RY RZ
Unión Viga-Losa	6678	6699 6703	UX UY UZ RX RY RZ
Unión Viga-Losa	6707	6728 6732	UX UY UZ RX RY RZ
Unión Viga-Losa	6736	6757 6761	UX UY UZ RX RY RZ
Unión Viga-Losa	6765	6786 6790	UX UY UZ RX RY RZ
Unión Viga-Losa	6794	6815 6819	UX UY UZ RX RY RZ
Unión Viga-Losa	6823	6851 6855	UX UY UZ RX RY RZ
Unión Viga-Losa	6859	6880 6884	UX UY UZ RX RY RZ
Unión Viga-Losa	6619	6629 6639	UX UY UZ RX RY RZ
Unión Viga-Losa	6620	6632 6640	UX UY UZ RX RY RZ
Unión Viga-Losa	6677	6683 6687	UX UY UZ RX RY RZ
Unión Viga-Losa	6706	6712 6716	UX UY UZ RX RY RZ
Unión Viga-Losa	6735	6741 6745	UX UY UZ RX RY RZ
Unión Viga-Losa	6764	6770 6774	UX UY UZ RX RY RZ
Unión Viga-Losa	6793	6799 6803	UX UY UZ RX RY RZ
Unión Viga-Losa	6822	6835 6839	UX UY UZ RX RY RZ
Unión Viga-Losa	6858	6864 6868	UX UY UZ RX RY RZ
Unión Viga-Losa	6890	6930 6940	UX UY UZ RX RY RZ
Unión Viga-Losa	6891	6933 6941	UX UY UZ RX RY RZ
Unión Viga-Losa	6947	6968 6972	UX UY UZ RX RY RZ
Unión Viga-Losa	6976	6997 7001	UX UY UZ RX RY RZ
Unión Viga-Losa	7005	7026 7030	UX UY UZ RX RY RZ
Unión Viga-Losa	7034	7055 7059	UX UY UZ RX RY RZ
Unión Viga-Losa	7063	7084 7088	UX UY UZ RX RY RZ
Unión Viga-Losa	7092	7120 7124	UX UY UZ RX RY RZ
Unión Viga-Losa	7128	7149 7153	UX UY UZ RX RY RZ
Unión Viga-Losa	6888	6898 6908	UX UY UZ RX RY RZ
Unión Viga-Losa	6889	6901 6909	UX UY UZ RX RY RZ
Unión Viga-Losa	6946	6952 6956	UX UY UZ RX RY RZ
Unión Viga-Losa	6975	6981 6985	UX UY UZ RX RY RZ
Unión Viga-Losa	7004	7010 7014	UX UY UZ RX RY RZ
Unión Viga-Losa	7033	7039 7043	UX UY UZ RX RY RZ
Unión Viga-Losa	7062	7068 7072	UX UY UZ RX RY RZ
Unión Viga-Losa	7091	7104 7108	UX UY UZ RX RY RZ
Unión Viga-Losa	7127	7133 7137	UX UY UZ RX RY RZ
Unión Viga-Losa	7159	7199 7209	UX UY UZ RX RY RZ
Unión Viga-Losa	7160	7202 7210	UX UY UZ RX RY RZ
Unión Viga-Losa	7216	7237 7241	UX UY UZ RX RY RZ
Unión Viga-Losa	7245	7266 7270	UX UY UZ RX RY RZ
Unión Viga-Losa	7274	7295 7299	UX UY UZ RX RY RZ
Unión Viga-Losa	7303	7324 7328	UX UY UZ RX RY RZ
Unión Viga-Losa	7361	7389 7393	UX UY UZ RX RY RZ
Unión Viga-Losa	7397	7418 7422	UX UY UZ RX RY RZ
Unión Viga-Losa	7157	7167 7177	UX UY UZ RX RY RZ
Unión Viga-Losa	7158	7170 7178	UX UY UZ RX RY RZ
Unión Viga-Losa	7215	7221 7225	UX UY UZ RX RY RZ
Unión Viga-Losa	7244	7250 7254	UX UY UZ RX RY RZ
Unión Viga-Losa	7273	7279 7283	UX UY UZ RX RY RZ
Unión Viga-Losa	7302	7308 7312	UX UY UZ RX RY RZ
Unión Viga-Losa	7360	7373 7377	UX UY UZ RX RY RZ
Unión Viga-Losa	7396	7402 7406	UX UY UZ RX RY RZ
Unión Viga-Losa	7428	7468 7478	UX UY UZ RX RY RZ
Unión Viga-Losa	7429	7471 7479	UX UY UZ RX RY RZ
Unión Viga-Losa	7485	7506 7510	UX UY UZ RX RY RZ
Unión Viga-Losa	7514	7535 7539	UX UY UZ RX RY RZ
Unión Viga-Losa	7543	7564 7568	UX UY UZ RX RY RZ
Unión Viga-Losa	7572	7593 7597	UX UY UZ RX RY RZ
Unión Viga-Losa	7601	7622 7626	UX UY UZ RX RY RZ
Unión Viga-Losa	7630	7658 7662	UX UY UZ RX RY RZ
Unión Viga-Losa	7666	7687 7691	UX UY UZ RX RY RZ
Unión Viga-Losa	7426	7436 7446	UX UY UZ RX RY RZ
Unión Viga-Losa	7427	7439 7447	UX UY UZ RX RY RZ
Unión Viga-Losa	7484	7490 7494	UX UY UZ RX RY RZ
Unión Viga-Losa	7513	7519 7523	UX UY UZ RX RY RZ
Unión Viga-Losa	7542	7548 7552	UX UY UZ RX RY RZ
Unión Viga-Losa	7571	7577 7581	UX UY UZ RX RY RZ
Unión Viga-Losa	7600	7606 7610	UX UY UZ RX RY RZ
Unión Viga-Losa	7629	7642 7646	UX UY UZ RX RY RZ
Unión Viga-Losa	7665	7671 7675	UX UY UZ RX RY RZ
Unión Viga-Losa	7697	7737 7747	UX UY UZ RX RY RZ
Unión Viga-Losa	7698	7740 7748	UX UY UZ RX RY RZ
Unión Viga-Losa	7754	7775 7779	UX UY UZ RX RY RZ
Unión Viga-Losa	7783	7804 7808	UX UY UZ RX RY RZ
Unión Viga-Losa	7812	7833 7837	UX UY UZ RX RY RZ
Unión Viga-Losa	7841	7862 7866	UX UY UZ RX RY RZ
Unión Viga-Losa	7870	7891 7895	UX UY UZ RX RY RZ
Unión Viga-Losa	7899	7927 7931	UX UY UZ RX RY RZ
Unión Viga-Losa	7935	7956 7960	UX UY UZ RX RY RZ
Unión Viga-Losa	7695	7705 7715	UX UY UZ RX RY RZ
Unión Viga-Losa	7696	7708 7716	UX UY UZ RX RY RZ
Unión Viga-Losa	7753	7759 7763	UX UY UZ RX RY RZ
Unión Viga-Losa	7782	7788 7792	UX UY UZ RX RY RZ
Unión Viga-Losa	7811	7817 7821	UX UY UZ RX RY RZ
Unión Viga-Losa	7840	7846 7850	UX UY UZ RX RY RZ
Unión Viga-Losa	7869	7875 7879	UX UY UZ RX RY RZ
Unión Viga-Losa	7898	7911 7915	UX UY UZ RX RY RZ
Unión Viga-Losa	7934	7940 7944	UX UY UZ RX RY RZ
Unión Viga-Losa	7966	8006 8016	UX UY UZ RX RY RZ
Unión Viga-Losa	7967	8009 8017	UX UY UZ RX RY RZ
Unión Viga-Losa	8023	8044 8048	UX UY UZ RX RY RZ
Unión Viga-Losa	8052	8073 8077	UX UY UZ RX RY RZ

Unión Viga-Losa	8081	8102 8106	UX UY UZ RX RY RZ
Unión Viga-Losa	8110	8131 8135	UX UY UZ RX RY RZ
Unión Viga-Losa	8139	8160 8164	UX UY UZ RX RY RZ
Unión Viga-Losa	8168	8196 8200	UX UY UZ RX RY RZ
Unión Viga-Losa	8204	8225 8229	UX UY UZ RX RY RZ
Unión Viga-Losa	7964	7974 7984	UX UY UZ RX RY RZ
Unión Viga-Losa	7965	7977 7985	UX UY UZ RX RY RZ
Unión Viga-Losa	8022	8028 8032	UX UY UZ RX RY RZ
Unión Viga-Losa	8051	8057 8061	UX UY UZ RX RY RZ
Unión Viga-Losa	8080	8086 8090	UX UY UZ RX RY RZ
Unión Viga-Losa	8109	8115 8119	UX UY UZ RX RY RZ
Unión Viga-Losa	8138	8144 8148	UX UY UZ RX RY RZ
Unión Viga-Losa	8167	8180 8184	UX UY UZ RX RY RZ
Unión Viga-Losa	8203	8209 8213	UX UY UZ RX RY RZ
Unión Viga-Losa	8235	8275 8285	UX UY UZ RX RY RZ
Unión Viga-Losa	8236	8278 8286	UX UY UZ RX RY RZ
Unión Viga-Losa	8292	8313 8317	UX UY UZ RX RY RZ
Unión Viga-Losa	8321	8342 8346	UX UY UZ RX RY RZ
Unión Viga-Losa	8350	8371 8375	UX UY UZ RX RY RZ
Unión Viga-Losa	8379	8400 8404	UX UY UZ RX RY RZ
Unión Viga-Losa	8408	8429 8433	UX UY UZ RX RY RZ
Unión Viga-Losa	8437	8465 8469	UX UY UZ RX RY RZ
Unión Viga-Losa	8473	8494 8498	UX UY UZ RX RY RZ
Unión Viga-Losa	8233	8243 8253	UX UY UZ RX RY RZ
Unión Viga-Losa	8234	8246 8254	UX UY UZ RX RY RZ
Unión Viga-Losa	8291	8297 8301	UX UY UZ RX RY RZ
Unión Viga-Losa	8320	8326 8330	UX UY UZ RX RY RZ
Unión Viga-Losa	8349	8355 8359	UX UY UZ RX RY RZ
Unión Viga-Losa	8378	8384 8388	UX UY UZ RX RY RZ
Unión Viga-Losa	8407	8413 8417	UX UY UZ RX RY RZ
Unión Viga-Losa	8436	8449 8453	UX UY UZ RX RY RZ
Unión Viga-Losa	8472	8478 8482	UX UY UZ RX RY RZ
Unión Viga-Losa	8504	8544 8554	UX UY UZ RX RY RZ
Unión Viga-Losa	8505	8547 8555	UX UY UZ RX RY RZ
Unión Viga-Losa	8561	8582 8586	UX UY UZ RX RY RZ
Unión Viga-Losa	8590	8611 8615	UX UY UZ RX RY RZ
Unión Viga-Losa	8619	8640 8644	UX UY UZ RX RY RZ
Unión Viga-Losa	8648	8669 8673	UX UY UZ RX RY RZ
Unión Viga-Losa	8677	8698 8702	UX UY UZ RX RY RZ
Unión Viga-Losa	8706	8734 8738	UX UY UZ RX RY RZ
Unión Viga-Losa	8742	8763 8767	UX UY UZ RX RY RZ
Unión Viga-Losa	8502	8512 8522	UX UY UZ RX RY RZ
Unión Viga-Losa	8503	8515 8523	UX UY UZ RX RY RZ
Unión Viga-Losa	8560	8566 8570	UX UY UZ RX RY RZ
Unión Viga-Losa	8589	8595 8599	UX UY UZ RX RY RZ
Unión Viga-Losa	8618	8624 8628	UX UY UZ RX RY RZ
Unión Viga-Losa	8647	8653 8657	UX UY UZ RX RY RZ
Unión Viga-Losa	8676	8682 8686	UX UY UZ RX RY RZ
Unión Viga-Losa	8705	8718 8722	UX UY UZ RX RY RZ
Unión Viga-Losa	8741	8747 8751	UX UY UZ RX RY RZ
Unión Viga-Losa	8773	8813 8823	UX UY UZ RX RY RZ
Unión Viga-Losa	8774	8816 8824	UX UY UZ RX RY RZ
Unión Viga-Losa	8830	8851 8855	UX UY UZ RX RY RZ
Unión Viga-Losa	8859	8880 8884	UX UY UZ RX RY RZ
Unión Viga-Losa	8888	8909 8913	UX UY UZ RX RY RZ
Unión Viga-Losa	8917	8938 8942	UX UY UZ RX RY RZ
Unión Viga-Losa	8946	8967 8971	UX UY UZ RX RY RZ
Unión Viga-Losa	8975	9003 9007	UX UY UZ RX RY RZ
Unión Viga-Losa	9011	9032 9036	UX UY UZ RX RY RZ
Unión Viga-Losa	8771	8781 8791	UX UY UZ RX RY RZ
Unión Viga-Losa	8772	8784 8792	UX UY UZ RX RY RZ
Unión Viga-Losa	8829	8835 8839	UX UY UZ RX RY RZ
Unión Viga-Losa	8858	8864 8868	UX UY UZ RX RY RZ

Unión Viga-Losa	8887	8893 8897	UX UY UZ RX RY RZ
Unión Viga-Losa	8916	8922 8926	UX UY UZ RX RY RZ
Unión Viga-Losa	8945	8951 8955	UX UY UZ RX RY RZ
Unión Viga-Losa	8974	8987 8991	UX UY UZ RX RY RZ
Unión Viga-Losa	9010	9016 9020	UX UY UZ RX RY RZ
Unión Viga-Losa	9138	9178 9188	UX UY UZ RX RY RZ
Unión Viga-Losa	9139	9181 9189	UX UY UZ RX RY RZ
Unión Viga-Losa	9195	9216 9220	UX UY UZ RX RY RZ
Unión Viga-Losa	9253	9274 9278	UX UY UZ RX RY RZ
Unión Viga-Losa	9282	9303 9307	UX UY UZ RX RY RZ
Unión Viga-Losa	9311	9332 9336	UX UY UZ RX RY RZ
Unión Viga-Losa	9340	9368 9372	UX UY UZ RX RY RZ
Unión Viga-Losa	9376	9397 9401	UX UY UZ RX RY RZ
Unión Viga-Losa	9136	9146 9156	UX UY UZ RX RY RZ
Unión Viga-Losa	9137	9149 9157	UX UY UZ RX RY RZ
Unión Viga-Losa	9194	9200 9204	UX UY UZ RX RY RZ
Unión Viga-Losa	9252	9258 9262	UX UY UZ RX RY RZ
Unión Viga-Losa	9281	9287 9291	UX UY UZ RX RY RZ
Unión Viga-Losa	9310	9316 9320	UX UY UZ RX RY RZ
Unión Viga-Losa	9339	9352 9356	UX UY UZ RX RY RZ
Unión Viga-Losa	9375	9381 9385	UX UY UZ RX RY RZ
Unión Viga-Losa	9407	9447 9457	UX UY UZ RX RY RZ
Unión Viga-Losa	9408	9450 9458	UX UY UZ RX RY RZ
Unión Viga-Losa	9464	9485 9489	UX UY UZ RX RY RZ
Unión Viga-Losa	9493	9514 9518	UX UY UZ RX RY RZ
Unión Viga-Losa	9522	9543 9547	UX UY UZ RX RY RZ
Unión Viga-Losa	9551	9572 9576	UX UY UZ RX RY RZ
Unión Viga-Losa	9580	9601 9605	UX UY UZ RX RY RZ
Unión Viga-Losa	9609	9637 9641	UX UY UZ RX RY RZ
Unión Viga-Losa	9645	9666 9670	UX UY UZ RX RY RZ
Unión Viga-Losa	9405	9415 9425	UX UY UZ RX RY RZ
Unión Viga-Losa	9406	9418 9426	UX UY UZ RX RY RZ
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Unión Viga-Losa	9521	9527 9531	UX UY UZ RX RY RZ
Unión Viga-Losa	9550	9556 9560	UX UY UZ RX RY RZ
Unión Viga-Losa	9579	9585 9589	UX UY UZ RX RY RZ
Unión Viga-Losa	9608	9621 9625	UX UY UZ RX RY RZ
Unión Viga-Losa	9644	9650 9654	UX UY UZ RX RY RZ
Unión Viga-Losa	9676	9716 9726	UX UY UZ RX RY RZ
Unión Viga-Losa	9677	9719 9727	UX UY UZ RX RY RZ
Unión Viga-Losa	9733	9754 9758	UX UY UZ RX RY RZ
Unión Viga-Losa	9762	9783 9787	UX UY UZ RX RY RZ
Unión Viga-Losa	9791	9812 9816	UX UY UZ RX RY RZ
Unión Viga-Losa	9820	9841 9845	UX UY UZ RX RY RZ
Unión Viga-Losa	9849	9870 9874	UX UY UZ RX RY RZ
Unión Viga-Losa	9878	9906 9910	UX UY UZ RX RY RZ
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Unión Viga-Losa	9675	9687 9695	UX UY UZ RX RY RZ
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Unión Viga-Losa	9848	9854 9858	UX UY UZ RX RY RZ
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Unión Viga-Losa	9913	9919 9923	UX UY UZ RX RY RZ
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Unión Viga-Losa	10002	10023 10027	UX UY UZ RX RY RZ
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Unión Viga-Losa	10060	10081 10085	UX UY UZ RX RY RZ
Unión Viga-Losa	10089	10110 10114	UX UY UZ RX RY RZ

Unión Viga-Losa	10118	10139 10143	UX UY UZ RX RY RZ
Unión Viga-Losa	10147	10175 10179	UX UY UZ RX RY RZ
Unión Viga-Losa	10183	10204 10208	UX UY UZ RX RY RZ
Unión Viga-Losa	9943	9953 9963	UX UY UZ RX RY RZ
Unión Viga-Losa	9944	9956 9964	UX UY UZ RX RY RZ
Unión Viga-Losa	10001	10007 10011	UX UY UZ RX RY RZ
Unión Viga-Losa	10030	10036 10040	UX UY UZ RX RY RZ
Unión Viga-Losa	10059	10065 10069	UX UY UZ RX RY RZ
Unión Viga-Losa	10088	10094 10098	UX UY UZ RX RY RZ
Unión Viga-Losa	10117	10123 10127	UX UY UZ RX RY RZ
Unión Viga-Losa	10146	10159 10163	UX UY UZ RX RY RZ
Unión Viga-Losa	10182	10188 10192	UX UY UZ RX RY RZ
Unión Viga-Losa	10214	10254 10264	UX UY UZ RX RY RZ
Unión Viga-Losa	10215	10257 10265	UX UY UZ RX RY RZ
Unión Viga-Losa	10271	10292 10296	UX UY UZ RX RY RZ
Unión Viga-Losa	10300	10321 10325	UX UY UZ RX RY RZ
Unión Viga-Losa	10329	10350 10354	UX UY UZ RX RY RZ
Unión Viga-Losa	10358	10379 10383	UX UY UZ RX RY RZ
Unión Viga-Losa	10387	10408 10412	UX UY UZ RX RY RZ
Unión Viga-Losa	10416	10444 10448	UX UY UZ RX RY RZ
Unión Viga-Losa	10452	10473 10477	UX UY UZ RX RY RZ
Unión Viga-Losa	10212	10222 10232	UX UY UZ RX RY RZ
Unión Viga-Losa	10213	10225 10233	UX UY UZ RX RY RZ
Unión Viga-Losa	10270	10276 10280	UX UY UZ RX RY RZ
Unión Viga-Losa	10299	10305 10309	UX UY UZ RX RY RZ
Unión Viga-Losa	10328	10334 10338	UX UY UZ RX RY RZ
Unión Viga-Losa	10357	10363 10367	UX UY UZ RX RY RZ
Unión Viga-Losa	10386	10392 10396	UX UY UZ RX RY RZ
Unión Viga-Losa	10415	10428 10432	UX UY UZ RX RY RZ
Unión Viga-Losa	10451	10457 10461	UX UY UZ RX RY RZ
Unión Viga-Losa	10483	10523 10533	UX UY UZ RX RY RZ
Unión Viga-Losa	10484	10526 10534	UX UY UZ RX RY RZ
Unión Viga-Losa	10540	10561 10565	UX UY UZ RX RY RZ
Unión Viga-Losa	10569	10590 10594	UX UY UZ RX RY RZ
Unión Viga-Losa	10598	10619 10623	UX UY UZ RX RY RZ
Unión Viga-Losa	10627	10648 10652	UX UY UZ RX RY RZ
Unión Viga-Losa	10656	10677 10681	UX UY UZ RX RY RZ
Unión Viga-Losa	10481	10491 10501	UX UY UZ RX RY RZ
Unión Viga-Losa	10482	10494 10502	UX UY UZ RX RY RZ
Unión Viga-Losa	10539	10545 10549	UX UY UZ RX RY RZ
Unión Viga-Losa	10568	10574 10578	UX UY UZ RX RY RZ
Unión Viga-Losa	10597	10603 10607	UX UY UZ RX RY RZ
Unión Viga-Losa	10626	10632 10636	UX UY UZ RX RY RZ
Unión Viga-Losa	10655	10661 10665	UX UY UZ RX RY RZ

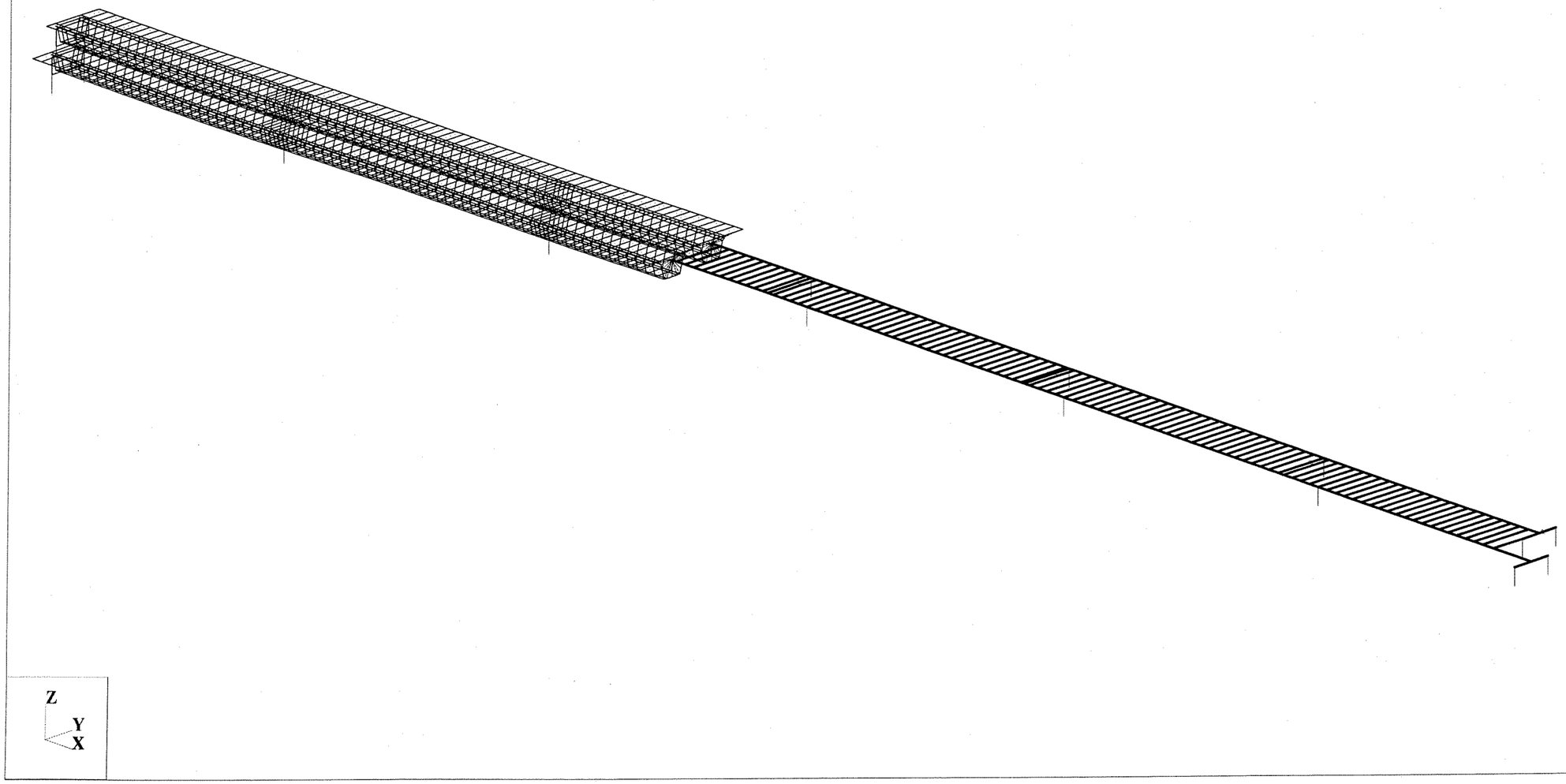
Cargas Aplicadas a la Estructura

Caso	Nombre del caso	Tipo de carga	Lista	Valores de carga
1	Peso Propio	peso propio	1001A1341 2001A2341 3001A3341 4001A4341 5001A5341 6001A6341 7001A7341 8001A8341	PZ Menos
26	SW2 - Dcha - T1	(EF) lineal 2p (3D)		FZ1=-15.000(T/m) FZ2=-15.000(T/m) N1X=0.250(m) N1Y=-2.240(m) N1Z=1.211(m) N2X=25.250(m) N2Y=-2.240(m) N2Z=1.211(m)
28	SW2 - Dcha - T4	(EF) lineal 2p (3D)		FZ1=-15.000(T/m) FZ2=-15.000(T/m) N1X=42.500(m) N1Y=-2.240(m) N1Z=1.211(m) N2X=67.500(m) N2Y=-2.240(m) N2Z=1.211(m)
28	SW2 - Dcha - T4	(EF) lineal 2p (3D)		FZ1=-15.000(T/m) FZ2=-15.000(T/m) N1X=74.500(m) N1Y=-2.240(m) N1Z=1.211(m) N2X=99.500(m) N2Y=-2.240(m) N2Z=1.211(m)

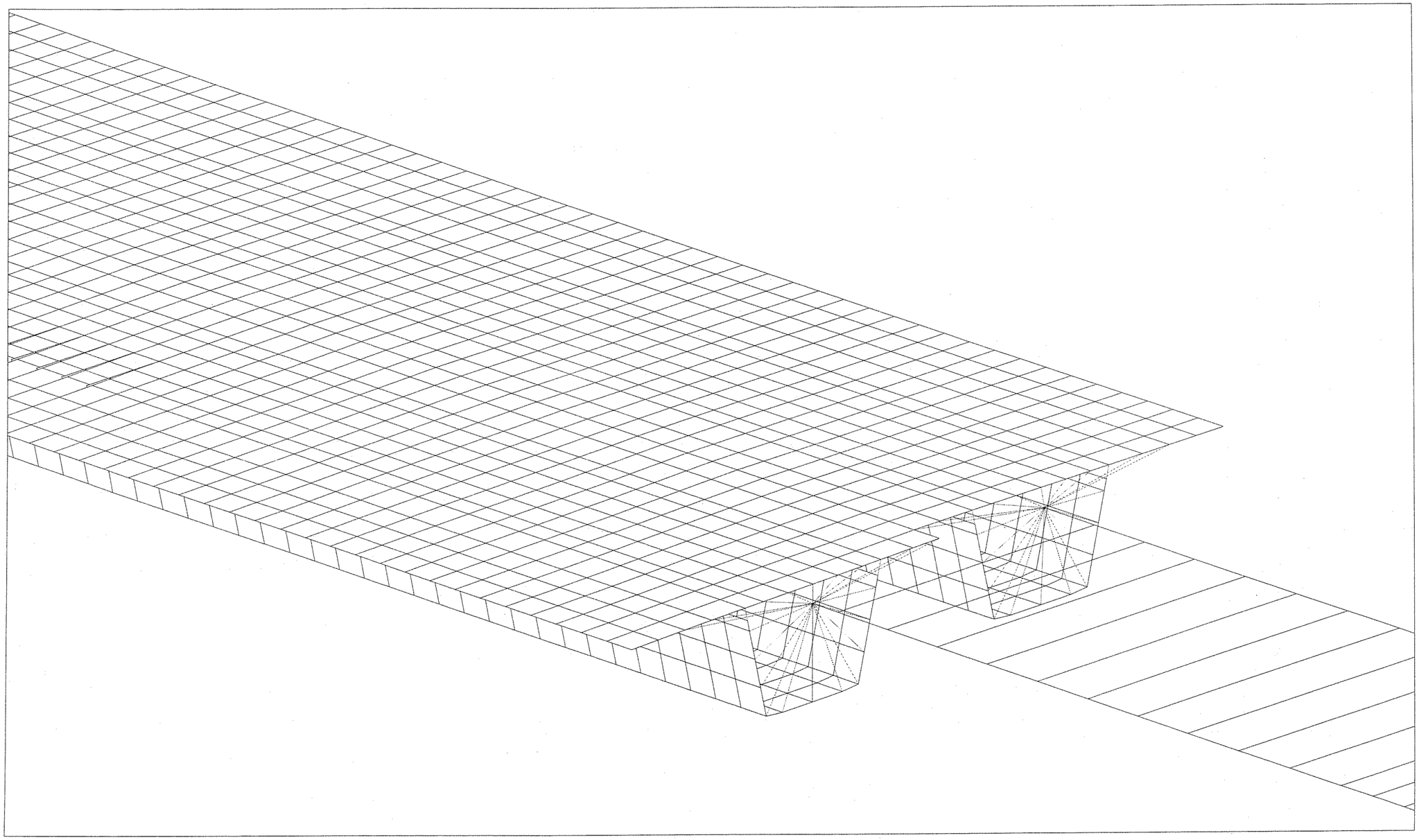
MODELO COMPLETO DE ELEMENTOS FINITOS

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Modelo de Cálculo - Vista General

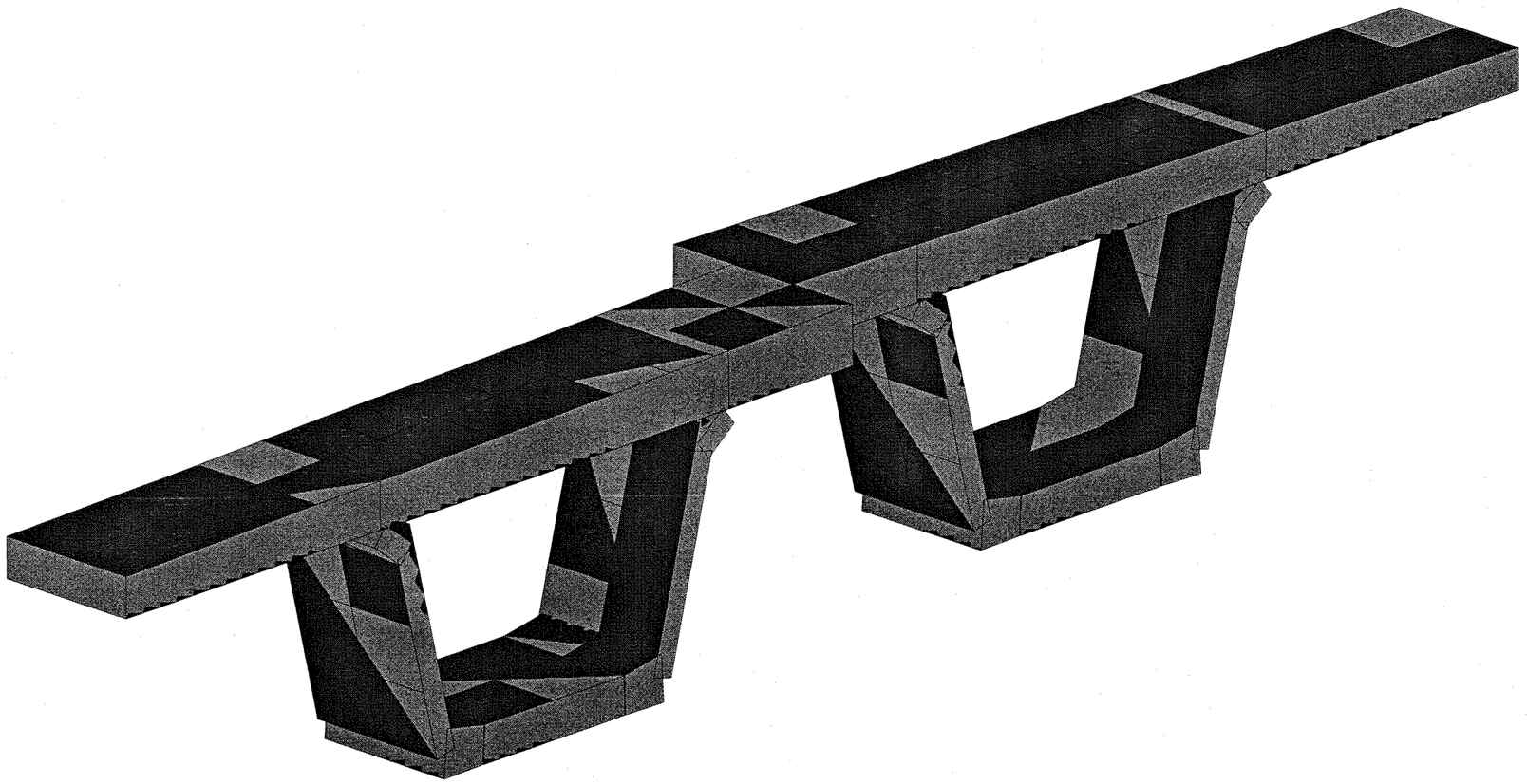


Modelo de Cálculo - Vista Unión EF a Barras

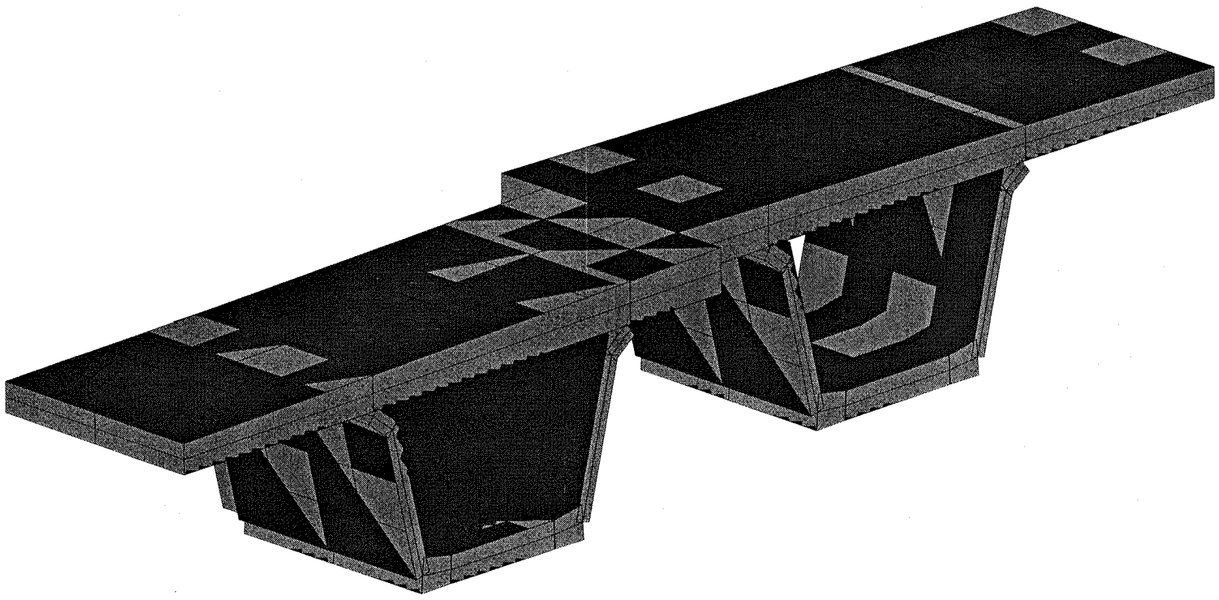


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Detalle Paneles Elementos Finitos

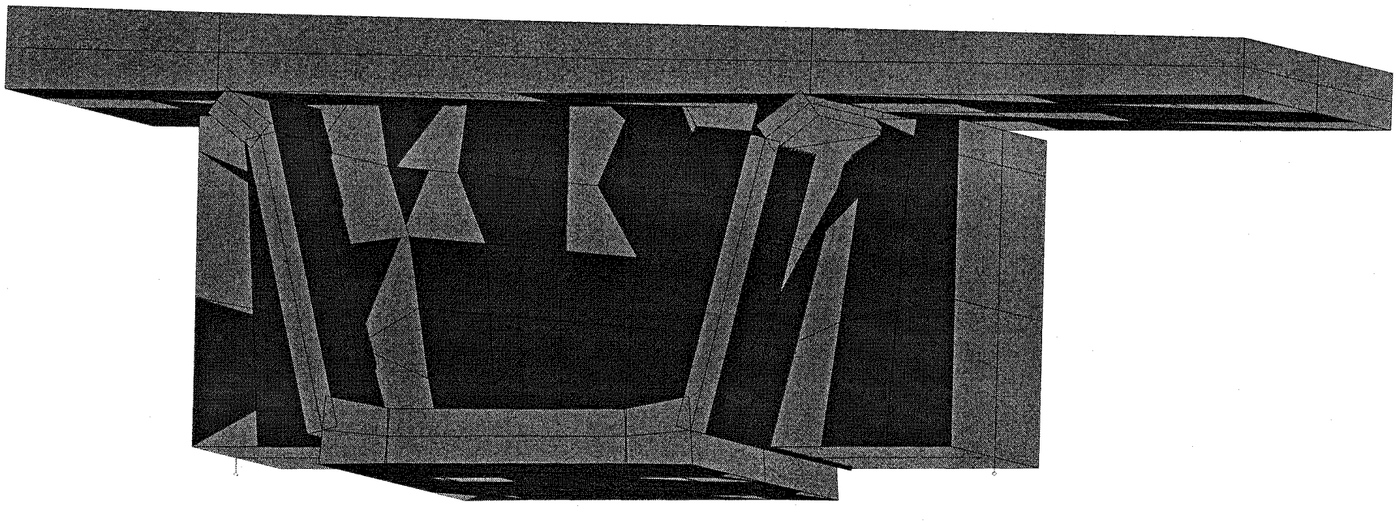


Modelo de Cálculo - Detalle en Pilas

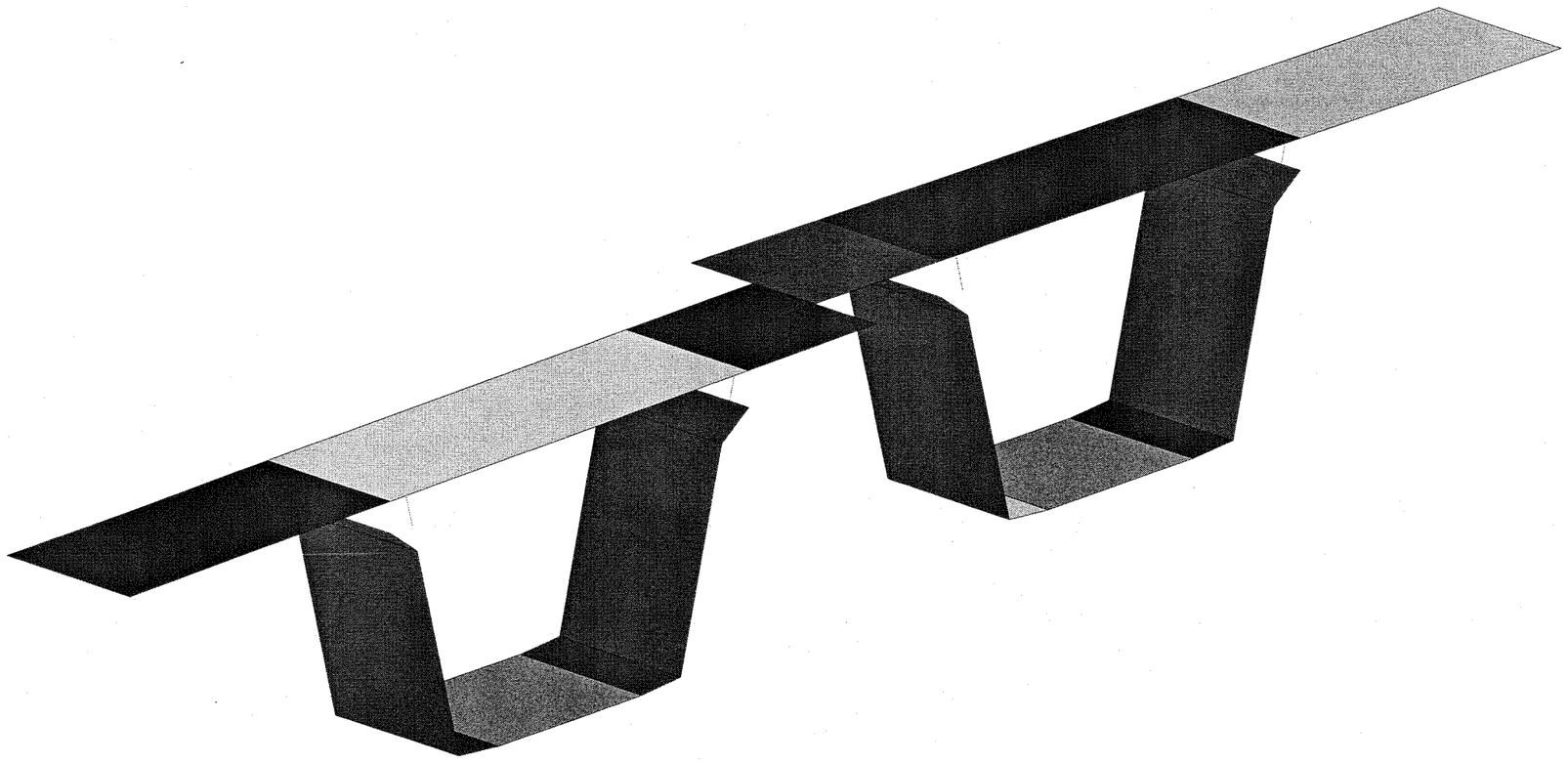


ROBOT v 16.1.1
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Archivo : **Flexión Transversal - Modelo.rtd**

Modelo de Cálculo - Detalle en Estribos



Paneles que Componen el Modelo



- Unión Sol - Dcha - Izq
- Unión Sol - Dcha - Dcha
- Losa Central
- Losa Viga
- Losa Lateral
- Unión Sol - Izq - Dcha
- Solera
- Unión Sol - Izq - Izq
- Alma
- Losa Central Izq
- Losa Viga Izq
- Losa Lateral Izq

Características de las Barras que Componen el Modelo

Nombre de la sección	Lista de barras	SX (cm^2)	SY (cm^2)	SZ (cm^2)	IX (cm^4)	IY (cm^4)	IZ (cm^4)
Riostra	7A9 2433	20400.000	0.0	0.0	$10.0 \cdot 10^9$	$10.0 \cdot 10^9$	$10.0 \cdot 10^9$
Viga Longitudinal	2 176A185 190A205 576A586 591A605 2221A2242 2247A2272 2278A2287 2356A2377 2382A2407 2412A2426	30151.483	0.0	0.0	120264892.557	136223825.206	698012202.123
Viga Longitudinal Apoyos	186A189 587A590 2220 2243A2246 2273A2277 2355 2378A2381 2408A2411	60516.483	0.0	0.0	207550690.616	218752246.991	817576433.346
Viga Transversal Central	1475A1500 2288A2354 2427A2431	3770.000	0.0	0.0	1361921.840	494325.000	3250000.000
Viga Transversal Lateral	1076A1100 1275A1300 2075A2141 2143A2219	5750.000	0.0	0.0	1439846.560	42016907.565	46833333.340

Características de los Paneles que Componen el Modelo

Nombre de espesor	Lista de paneles	Material	Tipo de espesor	Espesor (cm)	G1 (cm)	G2 (cm)
Losa Lateral	106A175	HA - 30	variable linealmente	-	26.800	31.100
Losa Viga	206A275	HA - 30	variable linealmente	-	31.100	36.900
Losa Central	306A375	HA - 30	variable linealmente	-	36.900	39.000
Alma	406A475 506A575 606A675 706A775 1401A1474 1501A1574 1601A1674 1701A1774	HP - 55	constante	15.000	-	-
Unión Sol - Dcha - Izq	906A975	HP - 55	variable linealmente	-	25.000	31.200
Solera	1006A1075 2001A2074	HP - 55	constante	25.000	-	-
Unión Sol - Dcha - Dcha	806A875	HP - 55	variable linealmente	-	25.000	31.200
Unión Sol - Izq - Izq	1801A1874	HP - 55	variable linealmente	-	25.000	31.200
Unión Sol - Izq - Dcha	1901A1974	HP - 55	variable linealmente	-	25.000	31.200
Losa Viga Izq	1201A1274	HA - 30	variable linealmente	-	31.100	36.900
Losa Lateral Izq	1101A1174	HA - 30	variable linealmente	-	26.800	31.100
Losa Central Izq	1301A1374	HA - 30	variable linealmente	-	36.900	39.000
Diafragmas	1 3 4 2432	HA - 30	constante	120.000	-	-
Macizo	5001A5012 5101A5112	HP - 55	constante	50.000	-	-

Paneles que Componen el Modelo de Cálculo

Panel	Espesor	Material	Tipo de malla	Superficie (m^2)
1	Diafragmas	HA - 30	Coons	1.169
3	Diafragmas	HA - 30	Coons	1.169
4	Diafragmas	HA - 30	Coons	1.169
106	Losa Lateral	HA - 30	Coons	2.262
107	Losa Lateral	HA - 30	Coons	2.262
108	Losa Lateral	HA - 30	Coons	2.262
109	Losa Lateral	HA - 30	Coons	2.262
110	Losa Lateral	HA - 30	Coons	2.262
111	Losa Lateral	HA - 30	Coons	2.262
112	Losa Lateral	HA - 30	Coons	2.262
113	Losa Lateral	HA - 30	Coons	2.262
114	Losa Lateral	HA - 30	Coons	2.262
115	Losa Lateral	HA - 30	Coons	2.262
116	Losa Lateral	HA - 30	Coons	2.262
117	Losa Lateral	HA - 30	Coons	2.262
118	Losa Lateral	HA - 30	Coons	2.262
119	Losa Lateral	HA - 30	Coons	2.262
120	Losa Lateral	HA - 30	Coons	2.262
121	Losa Lateral	HA - 30	Coons	2.262
122	Losa Lateral	HA - 30	Coons	2.262
123	Losa Lateral	HA - 30	Coons	2.262
124	Losa Lateral	HA - 30	Coons	2.262
125	Losa Lateral	HA - 30	Coons	2.262
126	Losa Lateral	HA - 30	Coons	2.262
127	Losa Lateral	HA - 30	Coons	2.262
128	Losa Lateral	HA - 30	Coons	2.262
129	Losa Lateral	HA - 30	Coons	2.262
130	Losa Lateral	HA - 30	Coons	2.262
131	Losa Lateral	HA - 30	Coons	2.262
132	Losa Lateral	HA - 30	Coons	2.262
133	Losa Lateral	HA - 30	Coons	2.262
134	Losa Lateral	HA - 30	Coons	2.262
135	Losa Lateral	HA - 30	Coons	2.262
136	Losa Lateral	HA - 30	Coons	2.262
137	Losa Lateral	HA - 30	Coons	2.262
138	Losa Lateral	HA - 30	Coons	2.262
139	Losa Lateral	HA - 30	Coons	2.262
140	Losa Lateral	HA - 30	Coons	2.262
141	Losa Lateral	HA - 30	Coons	2.262
142	Losa Lateral	HA - 30	Coons	2.262
143	Losa Lateral	HA - 30	Coons	2.262
144	Losa Lateral	HA - 30	Coons	2.262
145	Losa Lateral	HA - 30	Coons	2.262
146	Losa Lateral	HA - 30	Coons	2.262
147	Losa Lateral	HA - 30	Coons	2.262
148	Losa Lateral	HA - 30	Coons	2.262
149	Losa Lateral	HA - 30	Coons	2.262
150	Losa Lateral	HA - 30	Coons	2.262
151	Losa Lateral	HA - 30	Coons	2.262
152	Losa Lateral	HA - 30	Coons	2.262
153	Losa Lateral	HA - 30	Coons	2.262
154	Losa Lateral	HA - 30	Coons	2.262
155	Losa Lateral	HA - 30	Coons	2.262
156	Losa Lateral	HA - 30	Coons	2.262
157	Losa Lateral	HA - 30	Coons	2.262
158	Losa Lateral	HA - 30	Coons	2.262
159	Losa Lateral	HA - 30	Coons	2.262
160	Losa Lateral	HA - 30	Coons	2.262
161	Losa Lateral	HA - 30	Coons	2.262
162	Losa Lateral	HA - 30	Coons	2.262
163	Losa Lateral	HA - 30	Coons	2.262
164	Losa Lateral	HA - 30	Coons	2.262
165	Losa Lateral	HA - 30	Coons	2.262
166	Losa Lateral	HA - 30	Coons	2.262
167	Losa Lateral	HA - 30	Coons	2.262
168	Losa Lateral	HA - 30	Coons	2.262
169	Losa Lateral	HA - 30	Coons	2.262
170	Losa Lateral	HA - 30	Coons	2.262
171	Losa Lateral	HA - 30	Coons	2.262
172	Losa Lateral	HA - 30	Coons	2.262
173	Losa Lateral	HA - 30	Coons	2.262
174	Losa Lateral	HA - 30	Coons	2.262
175	Losa Lateral	HA - 30	Coons	2.262
206	Losa Viga	HA - 30	Coons	2.684
207	Losa Viga	HA - 30	Coons	2.684
208	Losa Viga	HA - 30	Coons	2.684
209	Losa Viga	HA - 30	Coons	2.684
210	Losa Viga	HA - 30	Coons	2.684
211	Losa Viga	HA - 30	Coons	2.684
212	Losa Viga	HA - 30	Coons	2.684
213	Losa Viga	HA - 30	Coons	2.684
214	Losa Viga	HA - 30	Coons	2.684
215	Losa Viga	HA - 30	Coons	2.684
216	Losa Viga	HA - 30	Coons	2.684
217	Losa Viga	HA - 30	Coons	2.684
218	Losa Viga	HA - 30	Coons	2.684
219	Losa Viga	HA - 30	Coons	2.684
220	Losa Viga	HA - 30	Coons	2.684
221	Losa Viga	HA - 30	Coons	2.684
222	Losa Viga	HA - 30	Coons	2.684
223	Losa Viga	HA - 30	Coons	2.684
224	Losa Viga	HA - 30	Coons	2.684
225	Losa Viga	HA - 30	Coons	2.684
226	Losa Viga	HA - 30	Coons	2.684
227	Losa Viga	HA - 30	Coons	2.684
228	Losa Viga	HA - 30	Coons	2.684
229	Losa Viga	HA - 30	Coons	2.684
230	Losa Viga	HA - 30	Coons	2.684
231	Losa Viga	HA - 30	Coons	2.684
232	Losa Viga	HA - 30	Coons	2.684
233	Losa Viga	HA - 30	Coons	2.684
234	Losa Viga	HA - 30	Coons	2.684
235	Losa Viga	HA - 30	Coons	2.684
236	Losa Viga	HA - 30	Coons	2.684
237	Losa Viga	HA - 30	Coons	2.684
238	Losa Viga	HA - 30	Coons	2.684
239	Losa Viga	HA - 30	Coons	2.684
240	Losa Viga	HA - 30	Coons	2.684
241	Losa Viga	HA - 30	Coons	2.684
242	Losa Viga	HA - 30	Coons	2.684
243	Losa Viga	HA - 30	Coons	2.684
244	Losa Viga	HA - 30	Coons	2.684
245	Losa Viga	HA - 30	Coons	2.684
246	Losa Viga	HA - 30	Coons	2.684
247	Losa Viga	HA - 30	Coons	2.684
248	Losa Viga	HA - 30	Coons	2.684
249	Losa Viga	HA - 30	Coons	2.684
250	Losa Viga	HA - 30	Coons	2.684
251	Losa Viga	HA - 30	Coons	2.684
252	Losa Viga	HA - 30	Coons	2.684
253	Losa Viga	HA - 30	Coons	2.684
254	Losa Viga	HA - 30	Coons	2.684
255	Losa Viga	HA - 30	Coons	2.684
256	Losa Viga	HA - 30	Coons	2.684
257	Losa Viga	HA - 30	Coons	2.684
258	Losa Viga	HA - 30	Coons	2.684
259	Losa Viga	HA - 30	Coons	2.684
260	Losa Viga	HA - 30	Coons	2.684
261	Losa Viga	HA - 30	Coons	2.684
262	Losa Viga	HA - 30	Coons	2.684
263	Losa Viga	HA - 30	Coons	2.684
264	Losa Viga	HA - 30	Coons	2.684
265	Losa Viga	HA - 30	Coons	2.684
266	Losa Viga	HA - 30	Coons	2.684
267	Losa Viga	HA - 30	Coons	2.684
268	Losa Viga	HA - 30	Coons	2.684
269	Losa Viga	HA - 30	Coons	2.684
270	Losa Viga	HA - 30	Coons	2.684
271	Losa Viga	HA - 30	Coons	2.684
272	Losa Viga	HA - 30	Coons	2.684
273	Losa Viga	HA - 30	Coons	2.684
274	Losa Viga	HA - 30	Coons	2.684
275	Losa Viga	HA - 30	Coons	2.684
306	Losa Central	HA - 30	Coons	1.155
307	Losa Central	HA - 30	Coons	1.155
308	Losa Central	HA - 30	Coons	1.155
309	Losa Central	HA - 30	Coons	1.155
310	Losa Central	HA - 30	Coons	1.155
311	Losa Central	HA - 30	Coons	1.155
312	Losa Central	HA - 30	Coons	1.155
313	Losa Central	HA - 30	Coons	1.155
314	Losa Central	HA - 30	Coons	1.155
315	Losa Central	HA - 30	Coons	1.155
316	Losa Central	HA - 30	Coons	1.155
317	Losa Central	HA - 30	Coons	1.155
318	Losa Central	HA - 30	Coons	1.155
319	Losa Central	HA - 30	Coons	1.155
320	Losa Central	HA - 30	Coons	1.155
321	Losa Central	HA - 30	Coons	1.155
322	Losa Central	HA - 30	Coons	1.155
323	Losa Central	HA - 30	Coons	1.155
324	Losa Central	HA - 30	Coons	1.155
325	Losa Central	HA - 30	Coons	1.155
326	Losa Central	HA - 30	Coons	1.155
327	Losa Central	HA - 30	Coons	1.155
328	Losa Central	HA - 30	Coons	1.155
329	Losa Central	HA - 30	Coons	1.155
330	Losa Central	HA - 30	Coons	1.155
331	Losa Central	HA - 30	Coons	1.155
332	Losa Central	HA - 30	Coons	1.155
333	Losa Central	HA - 30	Coons	1.155
334	Losa Central	HA - 30	Coons	1.155
335	Losa Central	HA - 30	Coons	1.155
336	Losa Central	HA - 30	Coons	1.155

337	Losa Central	HA - 30	Coons	1.155
338	Losa Central	HA - 30	Coons	1.155
339	Losa Central	HA - 30	Coons	1.155
340	Losa Central	HA - 30	Coons	1.155
341	Losa Central	HA - 30	Coons	1.155
342	Losa Central	HA - 30	Coons	1.155
343	Losa Central	HA - 30	Coons	1.155
344	Losa Central	HA - 30	Coons	1.155
345	Losa Central	HA - 30	Coons	1.155
346	Losa Central	HA - 30	Coons	1.155
347	Losa Central	HA - 30	Coons	1.155
348	Losa Central	HA - 30	Coons	1.155
349	Losa Central	HA - 30	Coons	1.155
350	Losa Central	HA - 30	Coons	1.155
351	Losa Central	HA - 30	Coons	1.155
352	Losa Central	HA - 30	Coons	1.155
353	Losa Central	HA - 30	Coons	1.155
354	Losa Central	HA - 30	Coons	1.155
355	Losa Central	HA - 30	Coons	1.155
356	Losa Central	HA - 30	Coons	1.155
357	Losa Central	HA - 30	Coons	1.155
358	Losa Central	HA - 30	Coons	1.155
359	Losa Central	HA - 30	Coons	1.155
360	Losa Central	HA - 30	Coons	1.155
361	Losa Central	HA - 30	Coons	1.155
362	Losa Central	HA - 30	Coons	1.155
363	Losa Central	HA - 30	Coons	1.155
364	Losa Central	HA - 30	Coons	1.155
365	Losa Central	HA - 30	Coons	1.155
366	Losa Central	HA - 30	Coons	1.155
367	Losa Central	HA - 30	Coons	1.155
368	Losa Central	HA - 30	Coons	1.155
369	Losa Central	HA - 30	Coons	1.155
370	Losa Central	HA - 30	Coons	1.155
371	Losa Central	HA - 30	Coons	1.155
372	Losa Central	HA - 30	Coons	1.155
373	Losa Central	HA - 30	Coons	1.155
374	Losa Central	HA - 30	Coons	1.155
375	Losa Central	HA - 30	Coons	1.155
406	Alma	HP - 55	Coons	0.171
407	Alma	HP - 55	Coons	0.171
408	Alma	HP - 55	Coons	0.171
409	Alma	HP - 55	Coons	0.171
410	Alma	HP - 55	Coons	0.171
411	Alma	HP - 55	Coons	0.171
412	Alma	HP - 55	Coons	0.171
413	Alma	HP - 55	Coons	0.171
414	Alma	HP - 55	Coons	0.171
415	Alma	HP - 55	Coons	0.171
416	Alma	HP - 55	Coons	0.171
417	Alma	HP - 55	Coons	0.171
418	Alma	HP - 55	Coons	0.171
419	Alma	HP - 55	Coons	0.171
420	Alma	HP - 55	Coons	0.171
421	Alma	HP - 55	Coons	0.171
422	Alma	HP - 55	Coons	0.171
423	Alma	HP - 55	Coons	0.171
424	Alma	HP - 55	Coons	0.171
425	Alma	HP - 55	Coons	0.171
426	Alma	HP - 55	Coons	0.171
427	Alma	HP - 55	Coons	0.171
428	Alma	HP - 55	Coons	0.171
429	Alma	HP - 55	Coons	0.171
430	Alma	HP - 55	Coons	0.171

431	Alma	HP - 55	Coons	0.171
432	Alma	HP - 55	Coons	0.171
433	Alma	HP - 55	Coons	0.171
434	Alma	HP - 55	Coons	0.171
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437	Alma	HP - 55	Coons	0.171
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454	Alma	HP - 55	Coons	0.171
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459	Alma	HP - 55	Coons	0.171
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461	Alma	HP - 55	Coons	0.171
462	Alma	HP - 55	Coons	0.171
463	Alma	HP - 55	Coons	0.171
464	Alma	HP - 55	Coons	0.171
465	Alma	HP - 55	Coons	0.171
466	Alma	HP - 55	Coons	0.171
467	Alma	HP - 55	Coons	0.171
468	Alma	HP - 55	Coons	0.171
469	Alma	HP - 55	Coons	0.171
470	Alma	HP - 55	Coons	0.171
471	Alma	HP - 55	Coons	0.171
472	Alma	HP - 55	Coons	0.171
473	Alma	HP - 55	Coons	0.171
474	Alma	HP - 55	Coons	0.171
475	Alma	HP - 55	Coons	0.171
506	Alma	HP - 55	Coons	0.171
507	Alma	HP - 55	Coons	0.171
508	Alma	HP - 55	Coons	0.171
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531	Alma	HP - 55	Coons	0.171
532	Alma	HP - 55	Coons	0.171
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539	Alma	HP - 55	Coons	0.171
540	Alma	HP - 55	Coons	0.171
541	Alma	HP - 55	Coons	0.171
542	Alma	HP - 55	Coons	0.171
543	Alma	HP - 55	Coons	0.171
544	Alma	HP - 55	Coons	0.171
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546	Alma	HP - 55	Coons	0.171
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568	Alma	HP - 55	Coons	0.171
569	Alma	HP - 55	Coons	0.171
570	Alma	HP - 55	Coons	0.171
571	Alma	HP - 55	Coons	0.171
572	Alma	HP - 55	Coons	0.171
573	Alma	HP - 55	Coons	0.171
574	Alma	HP - 55	Coons	0.171
575	Alma	HP - 55	Coons	0.171
606	Alma	HP - 55	Coons	1.384
607	Alma	HP - 55	Coons	1.384
608	Alma	HP - 55	Coons	1.384
609	Alma	HP - 55	Coons	1.384
610	Alma	HP - 55	Coons	1.384
611	Alma	HP - 55	Coons	1.384
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616	Alma	HP - 55	Coons	1.384
617	Alma	HP - 55	Coons	1.384
618	Alma	HP - 55	Coons	1.384

619	Alma	HP - 55	Coons	1.384
620	Alma	HP - 55	Coons	1.384
621	Alma	HP - 55	Coons	1.384
622	Alma	HP - 55	Coons	1.384
623	Alma	HP - 55	Coons	1.384
624	Alma	HP - 55	Coons	1.384
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629	Alma	HP - 55	Coons	1.384
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663	Alma	HP - 55	Coons	1.384
664	Alma	HP - 55	Coons	1.384
665	Alma	HP - 55	Coons	1.384
666	Alma	HP - 55	Coons	1.384
667	Alma	HP - 55	Coons	1.384
668	Alma	HP - 55	Coons	1.384
669	Alma	HP - 55	Coons	1.384
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671	Alma	HP - 55	Coons	1.384
672	Alma	HP - 55	Coons	1.384
673	Alma	HP - 55	Coons	1.384
674	Alma	HP - 55	Coons	1.384
675	Alma	HP - 55	Coons	1.384
706	Alma	HP - 55	Coons	1.384
707	Alma	HP - 55	Coons	1.384
708	Alma	HP - 55	Coons	1.384
709	Alma	HP - 55	Coons	1.384
710	Alma	HP - 55	Coons	1.384
711	Alma	HP - 55	Coons	1.384
712	Alma	HP - 55	Coons	1.384
713	Alma	HP - 55	Coons	1.384
714	Alma	HP - 55	Coons	1.384
715	Alma	HP - 55	Coons	1.384
716	Alma	HP - 55	Coons	1.384
717	Alma	HP - 55	Coons	1.384
718	Alma	HP - 55	Coons	1.384
719	Alma	HP - 55	Coons	1.384
720	Alma	HP - 55	Coons	1.384
721	Alma	HP - 55	Coons	1.384
722	Alma	HP - 55	Coons	1.384
723	Alma	HP - 55	Coons	1.384
724	Alma	HP - 55	Coons	1.384
725	Alma	HP - 55	Coons	1.384
726	Alma	HP - 55	Coons	1.384
727	Alma	HP - 55	Coons	1.384
728	Alma	HP - 55	Coons	1.384
729	Alma	HP - 55	Coons	1.384
730	Alma	HP - 55	Coons	1.384
731	Alma	HP - 55	Coons	1.384
732	Alma	HP - 55	Coons	1.384
733	Alma	HP - 55	Coons	1.384
734	Alma	HP - 55	Coons	1.384
735	Alma	HP - 55	Coons	1.384
736	Alma	HP - 55	Coons	1.384
737	Alma	HP - 55	Coons	1.384
738	Alma	HP - 55	Coons	1.384
739	Alma	HP - 55	Coons	1.384
740	Alma	HP - 55	Coons	1.384
741	Alma	HP - 55	Coons	1.384
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743	Alma	HP - 55	Coons	1.384
744	Alma	HP - 55	Coons	1.384
745	Alma	HP - 55	Coons	1.384
746	Alma	HP - 55	Coons	1.384
747	Alma	HP - 55	Coons	1.384
748	Alma	HP - 55	Coons	1.384
749	Alma	HP - 55	Coons	1.384
750	Alma	HP - 55	Coons	1.384
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752	Alma	HP - 55	Coons	1.384
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757	Alma	HP - 55	Coons	1.384
758	Alma	HP - 55	Coons	1.384
759	Alma	HP - 55	Coons	1.384
760	Alma	HP - 55	Coons	1.384
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763	Alma	HP - 55	Coons	1.384
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765	Alma	HP - 55	Coons	1.384
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767	Alma	HP - 55	Coons	1.384
768	Alma	HP - 55	Coons	1.384
769	Alma	HP - 55	Coons	1.384
770	Alma	HP - 55	Coons	1.384
771	Alma	HP - 55	Coons	1.384
772	Alma	HP - 55	Coons	1.384
773	Alma	HP - 55	Coons	1.384
774	Alma	HP - 55	Coons	1.384
775	Alma	HP - 55	Coons	1.384
806	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
807	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
808	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
809	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
810	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
811	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
812	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
813	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
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815	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
816	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
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821	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
822	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
823	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
824	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
825	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
826	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
827	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
828	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
829	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
830	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
831	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
832	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
833	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
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836	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
837	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
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839	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
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842	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
843	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
844	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
845	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
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848	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
849	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
850	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
851	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
852	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
853	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
854	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
855	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
856	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
857	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
858	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
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860	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
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862	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
863	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
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865	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
866	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
867	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
868	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
869	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
870	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322

871	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
872	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
873	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
874	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
875	Unión Sol - Dcha - Dcha	HP - 55	Coons	0.322
906	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
907	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
908	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
909	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
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912	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
913	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
914	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
915	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
916	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
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921	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
922	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
923	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
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925	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
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931	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
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933	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
934	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
935	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
936	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
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940	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
941	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
942	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
943	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
944	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
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946	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
947	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
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952	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
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957	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
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963	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
964	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322

965	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
966	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
967	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
968	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
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972	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
973	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
974	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
975	Unión Sol - Dcha - Izq	HP - 55	Coons	0.322
1006	Solera	HP - 55	Coons	1.180
1007	Solera	HP - 55	Coons	1.180
1008	Solera	HP - 55	Coons	1.180
1009	Solera	HP - 55	Coons	1.180
1010	Solera	HP - 55	Coons	1.180
1011	Solera	HP - 55	Coons	1.180
1012	Solera	HP - 55	Coons	1.180
1013	Solera	HP - 55	Coons	1.180
1014	Solera	HP - 55	Coons	1.180
1015	Solera	HP - 55	Coons	1.180
1016	Solera	HP - 55	Coons	1.180
1017	Solera	HP - 55	Coons	1.180
1018	Solera	HP - 55	Coons	1.180
1019	Solera	HP - 55	Coons	1.180
1020	Solera	HP - 55	Coons	1.180
1021	Solera	HP - 55	Coons	1.180
1022	Solera	HP - 55	Coons	1.180
1023	Solera	HP - 55	Coons	1.180
1024	Solera	HP - 55	Coons	1.180
1025	Solera	HP - 55	Coons	1.180
1026	Solera	HP - 55	Coons	1.180
1027	Solera	HP - 55	Coons	1.180
1028	Solera	HP - 55	Coons	1.180
1029	Solera	HP - 55	Coons	1.180
1030	Solera	HP - 55	Coons	1.180
1031	Solera	HP - 55	Coons	1.180
1032	Solera	HP - 55	Coons	1.180
1033	Solera	HP - 55	Coons	1.180
1034	Solera	HP - 55	Coons	1.180
1035	Solera	HP - 55	Coons	1.180
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1038	Solera	HP - 55	Coons	1.180
1039	Solera	HP - 55	Coons	1.180
1040	Solera	HP - 55	Coons	1.180
1041	Solera	HP - 55	Coons	1.180
1042	Solera	HP - 55	Coons	1.180
1043	Solera	HP - 55	Coons	1.180
1044	Solera	HP - 55	Coons	1.180
1045	Solera	HP - 55	Coons	1.180
1046	Solera	HP - 55	Coons	1.180
1047	Solera	HP - 55	Coons	1.180
1048	Solera	HP - 55	Coons	1.180
1049	Solera	HP - 55	Coons	1.180
1050	Solera	HP - 55	Coons	1.180
1051	Solera	HP - 55	Coons	1.180
1052	Solera	HP - 55	Coons	1.180
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1054	Solera	HP - 55	Coons	1.180
1055	Solera	HP - 55	Coons	1.180
1056	Solera	HP - 55	Coons	1.180
1057	Solera	HP - 55	Coons	1.180
1058	Solera	HP - 55	Coons	1.180

1059	Solera	HP - 55	Coons	1.180
1060	Solera	HP - 55	Coons	1.180
1061	Solera	HP - 55	Coons	1.180
1062	Solera	HP - 55	Coons	1.180
1063	Solera	HP - 55	Coons	1.180
1064	Solera	HP - 55	Coons	1.180
1065	Solera	HP - 55	Coons	1.180
1066	Solera	HP - 55	Coons	1.180
1067	Solera	HP - 55	Coons	1.180
1068	Solera	HP - 55	Coons	1.180
1069	Solera	HP - 55	Coons	1.180
1070	Solera	HP - 55	Coons	1.180
1071	Solera	HP - 55	Coons	1.180
1072	Solera	HP - 55	Coons	1.180
1073	Solera	HP - 55	Coons	1.180
1074	Solera	HP - 55	Coons	1.180
1075	Solera	HP - 55	Coons	1.180
1101	Losa Lateral Izq	HA - 30	Coons	2.262
1102	Losa Lateral Izq	HA - 30	Coons	2.262
1103	Losa Lateral Izq	HA - 30	Coons	2.262
1104	Losa Lateral Izq	HA - 30	Coons	2.262
1105	Losa Lateral Izq	HA - 30	Coons	2.262
1106	Losa Lateral Izq	HA - 30	Coons	2.262
1107	Losa Lateral Izq	HA - 30	Coons	2.262
1108	Losa Lateral Izq	HA - 30	Coons	2.262
1109	Losa Lateral Izq	HA - 30	Coons	2.262
1110	Losa Lateral Izq	HA - 30	Coons	2.262
1111	Losa Lateral Izq	HA - 30	Coons	2.262
1112	Losa Lateral Izq	HA - 30	Coons	2.262
1113	Losa Lateral Izq	HA - 30	Coons	2.262
1114	Losa Lateral Izq	HA - 30	Coons	2.262
1115	Losa Lateral Izq	HA - 30	Coons	2.262
1116	Losa Lateral Izq	HA - 30	Coons	2.262
1117	Losa Lateral Izq	HA - 30	Coons	2.262
1118	Losa Lateral Izq	HA - 30	Coons	2.262
1119	Losa Lateral Izq	HA - 30	Coons	2.262
1120	Losa Lateral Izq	HA - 30	Coons	2.262
1121	Losa Lateral Izq	HA - 30	Coons	2.262
1122	Losa Lateral Izq	HA - 30	Coons	2.262
1123	Losa Lateral Izq	HA - 30	Coons	2.262
1124	Losa Lateral Izq	HA - 30	Coons	2.262
1125	Losa Lateral Izq	HA - 30	Coons	2.262
1126	Losa Lateral Izq	HA - 30	Coons	2.262
1127	Losa Lateral Izq	HA - 30	Coons	2.262
1128	Losa Lateral Izq	HA - 30	Coons	2.262
1129	Losa Lateral Izq	HA - 30	Coons	2.262
1130	Losa Lateral Izq	HA - 30	Coons	2.262
1131	Losa Lateral Izq	HA - 30	Coons	2.262
1132	Losa Lateral Izq	HA - 30	Coons	2.262
1133	Losa Lateral Izq	HA - 30	Coons	2.262
1134	Losa Lateral Izq	HA - 30	Coons	2.262
1135	Losa Lateral Izq	HA - 30	Coons	2.262
1136	Losa Lateral Izq	HA - 30	Coons	2.262
1137	Losa Lateral Izq	HA - 30	Coons	2.262
1138	Losa Lateral Izq	HA - 30	Coons	2.262
1139	Losa Lateral Izq	HA - 30	Coons	2.262
1140	Losa Lateral Izq	HA - 30	Coons	2.262
1141	Losa Lateral Izq	HA - 30	Coons	2.262
1142	Losa Lateral Izq	HA - 30	Coons	2.262
1143	Losa Lateral Izq	HA - 30	Coons	2.262
1144	Losa Lateral Izq	HA - 30	Coons	2.262
1145	Losa Lateral Izq	HA - 30	Coons	2.262
1146	Losa Lateral Izq	HA - 30	Coons	2.262
1147	Losa Lateral Izq	HA - 30	Coons	2.262

1148	Losa Lateral Izq	HA - 30	Coons	2.262
1149	Losa Lateral Izq	HA - 30	Coons	2.262
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1151	Losa Lateral Izq	HA - 30	Coons	2.262
1152	Losa Lateral Izq	HA - 30	Coons	2.262
1153	Losa Lateral Izq	HA - 30	Coons	2.262
1154	Losa Lateral Izq	HA - 30	Coons	2.262
1155	Losa Lateral Izq	HA - 30	Coons	2.262
1156	Losa Lateral Izq	HA - 30	Coons	2.262
1157	Losa Lateral Izq	HA - 30	Coons	2.262
1158	Losa Lateral Izq	HA - 30	Coons	2.262
1159	Losa Lateral Izq	HA - 30	Coons	2.262
1160	Losa Lateral Izq	HA - 30	Coons	2.262
1161	Losa Lateral Izq	HA - 30	Coons	2.262
1162	Losa Lateral Izq	HA - 30	Coons	2.262
1163	Losa Lateral Izq	HA - 30	Coons	2.262
1164	Losa Lateral Izq	HA - 30	Coons	2.262
1165	Losa Lateral Izq	HA - 30	Coons	2.262
1166	Losa Lateral Izq	HA - 30	Coons	2.262
1167	Losa Lateral Izq	HA - 30	Coons	2.262
1168	Losa Lateral Izq	HA - 30	Coons	2.262
1169	Losa Lateral Izq	HA - 30	Coons	2.262
1170	Losa Lateral Izq	HA - 30	Coons	2.262
1171	Losa Lateral Izq	HA - 30	Coons	2.262
1172	Losa Lateral Izq	HA - 30	Coons	2.262
1173	Losa Lateral Izq	HA - 30	Coons	2.262
1174	Losa Lateral Izq	HA - 30	Coons	2.262
1201	Losa Viga Izq	HA - 30	Coons	2.684
1202	Losa Viga Izq	HA - 30	Coons	2.684
1203	Losa Viga Izq	HA - 30	Coons	2.684
1204	Losa Viga Izq	HA - 30	Coons	2.684
1205	Losa Viga Izq	HA - 30	Coons	2.684
1206	Losa Viga Izq	HA - 30	Coons	2.684
1207	Losa Viga Izq	HA - 30	Coons	2.684
1208	Losa Viga Izq	HA - 30	Coons	2.684
1209	Losa Viga Izq	HA - 30	Coons	2.684
1210	Losa Viga Izq	HA - 30	Coons	2.684
1211	Losa Viga Izq	HA - 30	Coons	2.684
1212	Losa Viga Izq	HA - 30	Coons	2.684
1213	Losa Viga Izq	HA - 30	Coons	2.684
1214	Losa Viga Izq	HA - 30	Coons	2.684
1215	Losa Viga Izq	HA - 30	Coons	2.684
1216	Losa Viga Izq	HA - 30	Coons	2.684
1217	Losa Viga Izq	HA - 30	Coons	2.684
1218	Losa Viga Izq	HA - 30	Coons	2.684
1219	Losa Viga Izq	HA - 30	Coons	2.684
1220	Losa Viga Izq	HA - 30	Coons	2.684
1221	Losa Viga Izq	HA - 30	Coons	2.684
1222	Losa Viga Izq	HA - 30	Coons	2.684
1223	Losa Viga Izq	HA - 30	Coons	2.684
1224	Losa Viga Izq	HA - 30	Coons	2.684
1225	Losa Viga Izq	HA - 30	Coons	2.684
1226	Losa Viga Izq	HA - 30	Coons	2.684
1227	Losa Viga Izq	HA - 30	Coons	2.684
1228	Losa Viga Izq	HA - 30	Coons	2.684
1229	Losa Viga Izq	HA - 30	Coons	2.684
1230	Losa Viga Izq	HA - 30	Coons	2.684
1231	Losa Viga Izq	HA - 30	Coons	2.684
1232	Losa Viga Izq	HA - 30	Coons	2.684
1233	Losa Viga Izq	HA - 30	Coons	2.684
1234	Losa Viga Izq	HA - 30	Coons	2.684
1235	Losa Viga Izq	HA - 30	Coons	2.684
1236	Losa Viga Izq	HA - 30	Coons	2.684
1237	Losa Viga Izq	HA - 30	Coons	2.684
1238	Losa Viga Izq	HA - 30	Coons	2.684
1239	Losa Viga Izq	HA - 30	Coons	2.684
1240	Losa Viga Izq	HA - 30	Coons	2.684
1241	Losa Viga Izq	HA - 30	Coons	2.684
1242	Losa Viga Izq	HA - 30	Coons	2.684
1243	Losa Viga Izq	HA - 30	Coons	2.684
1244	Losa Viga Izq	HA - 30	Coons	2.684
1245	Losa Viga Izq	HA - 30	Coons	2.684
1246	Losa Viga Izq	HA - 30	Coons	2.684
1247	Losa Viga Izq	HA - 30	Coons	2.684
1248	Losa Viga Izq	HA - 30	Coons	2.684
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1250	Losa Viga Izq	HA - 30	Coons	2.684
1251	Losa Viga Izq	HA - 30	Coons	2.684
1252	Losa Viga Izq	HA - 30	Coons	2.684
1253	Losa Viga Izq	HA - 30	Coons	2.684
1254	Losa Viga Izq	HA - 30	Coons	2.684
1255	Losa Viga Izq	HA - 30	Coons	2.684
1256	Losa Viga Izq	HA - 30	Coons	2.684
1257	Losa Viga Izq	HA - 30	Coons	2.684
1258	Losa Viga Izq	HA - 30	Coons	2.684
1259	Losa Viga Izq	HA - 30	Coons	2.684
1260	Losa Viga Izq	HA - 30	Coons	2.684
1261	Losa Viga Izq	HA - 30	Coons	2.684
1262	Losa Viga Izq	HA - 30	Coons	2.684
1263	Losa Viga Izq	HA - 30	Coons	2.684
1264	Losa Viga Izq	HA - 30	Coons	2.684
1265	Losa Viga Izq	HA - 30	Coons	2.684
1266	Losa Viga Izq	HA - 30	Coons	2.684
1267	Losa Viga Izq	HA - 30	Coons	2.684
1268	Losa Viga Izq	HA - 30	Coons	2.684
1269	Losa Viga Izq	HA - 30	Coons	2.684
1270	Losa Viga Izq	HA - 30	Coons	2.684
1271	Losa Viga Izq	HA - 30	Coons	2.684
1272	Losa Viga Izq	HA - 30	Coons	2.684
1273	Losa Viga Izq	HA - 30	Coons	2.684
1274	Losa Viga Izq	HA - 30	Coons	2.684
1301	Losa Central Izq	HA - 30	Coons	1.155
1302	Losa Central Izq	HA - 30	Coons	1.155
1303	Losa Central Izq	HA - 30	Coons	1.155
1304	Losa Central Izq	HA - 30	Coons	1.155
1305	Losa Central Izq	HA - 30	Coons	1.155
1306	Losa Central Izq	HA - 30	Coons	1.155
1307	Losa Central Izq	HA - 30	Coons	1.155
1308	Losa Central Izq	HA - 30	Coons	1.155
1309	Losa Central Izq	HA - 30	Coons	1.155
1310	Losa Central Izq	HA - 30	Coons	1.155
1311	Losa Central Izq	HA - 30	Coons	1.155
1312	Losa Central Izq	HA - 30	Coons	1.155
1313	Losa Central Izq	HA - 30	Coons	1.155
1314	Losa Central Izq	HA - 30	Coons	1.155
1315	Losa Central Izq	HA - 30	Coons	1.155
1316	Losa Central Izq	HA - 30	Coons	1.155
1317	Losa Central Izq	HA - 30	Coons	1.155
1318	Losa Central Izq	HA - 30	Coons	1.155
1319	Losa Central Izq	HA - 30	Coons	1.155
1320	Losa Central Izq	HA - 30	Coons	1.155
1321	Losa Central Izq	HA - 30	Coons	1.155
1322	Losa Central Izq	HA - 30	Coons	1.155
1323	Losa Central Izq	HA - 30	Coons	1.155
1324	Losa Central Izq	HA - 30	Coons	1.155
1325	Losa Central Izq	HA - 30	Coons	1.155
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1332	Losa Central Izq	HA - 30	Coons	1.155
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1334	Losa Central Izq	HA - 30	Coons	1.155
1335	Losa Central Izq	HA - 30	Coons	1.155
1336	Losa Central Izq	HA - 30	Coons	1.155
1337	Losa Central Izq	HA - 30	Coons	1.155
1338	Losa Central Izq	HA - 30	Coons	1.155
1339	Losa Central Izq	HA - 30	Coons	1.155
1340	Losa Central Izq	HA - 30	Coons	1.155
1341	Losa Central Izq	HA - 30	Coons	1.155
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1343	Losa Central Izq	HA - 30	Coons	1.155
1344	Losa Central Izq	HA - 30	Coons	1.155
1345	Losa Central Izq	HA - 30	Coons	1.155
1346	Losa Central Izq	HA - 30	Coons	1.155
1347	Losa Central Izq	HA - 30	Coons	1.155
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1355	Losa Central Izq	HA - 30	Coons	1.155
1356	Losa Central Izq	HA - 30	Coons	1.155
1357	Losa Central Izq	HA - 30	Coons	1.155
1358	Losa Central Izq	HA - 30	Coons	1.155
1359	Losa Central Izq	HA - 30	Coons	1.155
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1361	Losa Central Izq	HA - 30	Coons	1.155
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1364	Losa Central Izq	HA - 30	Coons	1.155
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1369	Losa Central Izq	HA - 30	Coons	1.155
1370	Losa Central Izq	HA - 30	Coons	1.155
1371	Losa Central Izq	HA - 30	Coons	1.155
1372	Losa Central Izq	HA - 30	Coons	1.155
1373	Losa Central Izq	HA - 30	Coons	1.155
1374	Losa Central Izq	HA - 30	Coons	1.155
1401	Alma	HP - 55	Coons	0.171
1402	Alma	HP - 55	Coons	0.171
1403	Alma	HP - 55	Coons	0.171
1404	Alma	HP - 55	Coons	0.171
1405	Alma	HP - 55	Coons	0.171
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1417	Alma	HP - 55	Coons	0.171

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1471	Alma	HP - 55	Coons	0.171
1472	Alma	HP - 55	Coons	0.171
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1602	Alma	HP - 55	Coons	1.384
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1610	Alma	HP - 55	Coons	1.384
1611	Alma	HP - 55	Coons	1.384
1612	Alma	HP - 55	Coons	1.384
1613	Alma	HP - 55	Coons	1.384
1614	Alma	HP - 55	Coons	1.384
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1771	Alma	HP - 55	Coons	1.384
1772	Alma	HP - 55	Coons	1.384
1773	Alma	HP - 55	Coons	1.384
1774	Alma	HP - 55	Coons	1.384
1801	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1802	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1803	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1804	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1805	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1806	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1807	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1808	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1809	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1810	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1811	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1812	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1813	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1814	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1815	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1816	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1817	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1818	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1819	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1820	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1821	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1822	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1823	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1824	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1825	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1826	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1827	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1828	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1829	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1830	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1831	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1832	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1833	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1834	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1835	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1836	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1837	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1838	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1839	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1840	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1841	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1842	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1843	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1844	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1845	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1846	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1847	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1848	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1849	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1850	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1851	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1852	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1853	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1854	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1855	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1856	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1857	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1858	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1859	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1860	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1861	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1862	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1863	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1864	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1865	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1866	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1867	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1868	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1869	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1870	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1871	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1872	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1873	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1874	Unión Sol - Izq - Izq	HP - 55	Coons	0.322
1901	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1902	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1903	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1904	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1905	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1906	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1907	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1908	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1909	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1910	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1911	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1912	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1913	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1914	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1915	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1916	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1917	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1918	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1919	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1920	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1921	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1922	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1923	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1924	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1925	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1926	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1927	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1928	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1929	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1930	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1931	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322

1932	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1933	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1934	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1935	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1936	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1937	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1938	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1939	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1940	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1941	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1942	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1943	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1944	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1945	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1946	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1947	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1948	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1949	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1950	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1951	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1952	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1953	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1954	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1955	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1956	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1957	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1958	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1959	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1960	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1961	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1962	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1963	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1964	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1965	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1966	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1967	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1968	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1969	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1970	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1971	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1972	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1973	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
1974	Unión Sol - Izq - Dcha	HP - 55	Coons	0.322
2001	Solera	HP - 55	Coons	1.180
2002	Solera	HP - 55	Coons	1.180
2003	Solera	HP - 55	Coons	1.180
2004	Solera	HP - 55	Coons	1.180
2005	Solera	HP - 55	Coons	1.180
2006	Solera	HP - 55	Coons	1.180
2007	Solera	HP - 55	Coons	1.180
2008	Solera	HP - 55	Coons	1.180
2009	Solera	HP - 55	Coons	1.180
2010	Solera	HP - 55	Coons	1.180
2011	Solera	HP - 55	Coons	1.180
2012	Solera	HP - 55	Coons	1.180
2013	Solera	HP - 55	Coons	1.180
2014	Solera	HP - 55	Coons	1.180
2015	Solera	HP - 55	Coons	1.180
2016	Solera	HP - 55	Coons	1.180
2017	Solera	HP - 55	Coons	1.180
2018	Solera	HP - 55	Coons	1.180
2019	Solera	HP - 55	Coons	1.180
2020	Solera	HP - 55	Coons	1.180
2021	Solera	HP - 55	Coons	1.180
2022	Solera	HP - 55	Coons	1.180
2023	Solera	HP - 55	Coons	1.180
2024	Solera	HP - 55	Coons	1.180
2025	Solera	HP - 55	Coons	1.180
2026	Solera	HP - 55	Coons	1.180
2027	Solera	HP - 55	Coons	1.180
2028	Solera	HP - 55	Coons	1.180
2029	Solera	HP - 55	Coons	1.180
2030	Solera	HP - 55	Coons	1.180
2031	Solera	HP - 55	Coons	1.180
2032	Solera	HP - 55	Coons	1.180
2033	Solera	HP - 55	Coons	1.180
2034	Solera	HP - 55	Coons	1.180
2035	Solera	HP - 55	Coons	1.180
2036	Solera	HP - 55	Coons	1.180
2037	Solera	HP - 55	Coons	1.180
2038	Solera	HP - 55	Coons	1.180
2039	Solera	HP - 55	Coons	1.180
2040	Solera	HP - 55	Coons	1.180
2041	Solera	HP - 55	Coons	1.180
2042	Solera	HP - 55	Coons	1.180
2043	Solera	HP - 55	Coons	1.180
2044	Solera	HP - 55	Coons	1.180
2045	Solera	HP - 55	Coons	1.180
2046	Solera	HP - 55	Coons	1.180
2047	Solera	HP - 55	Coons	1.180
2048	Solera	HP - 55	Coons	1.180
2049	Solera	HP - 55	Coons	1.180
2050	Solera	HP - 55	Coons	1.180
2051	Solera	HP - 55	Coons	1.180
2052	Solera	HP - 55	Coons	1.180
2053	Solera	HP - 55	Coons	1.180
2054	Solera	HP - 55	Coons	1.180
2055	Solera	HP - 55	Coons	1.180
2056	Solera	HP - 55	Coons	1.180
2057	Solera	HP - 55	Coons	1.180
2058	Solera	HP - 55	Coons	1.180
2059	Solera	HP - 55	Coons	1.180
2060	Solera	HP - 55	Coons	1.180
2061	Solera	HP - 55	Coons	1.180
2062	Solera	HP - 55	Coons	1.180
2063	Solera	HP - 55	Coons	1.180
2064	Solera	HP - 55	Coons	1.180
2065	Solera	HP - 55	Coons	1.180
2066	Solera	HP - 55	Coons	1.180
2067	Solera	HP - 55	Coons	1.180
2068	Solera	HP - 55	Coons	1.180
2069	Solera	HP - 55	Coons	1.180
2070	Solera	HP - 55	Coons	1.180
2071	Solera	HP - 55	Coons	1.180
2072	Solera	HP - 55	Coons	1.180
2073	Solera	HP - 55	Coons	1.180
2074	Solera	HP - 55	Coons	1.180
2432	Diafragmas	HA - 30	Coons	1.169
5001	Macizo	HP - 55	Coons	3.911
5002	Macizo	HP - 55	Coons	3.911
5003	Macizo	HP - 55	Coons	3.911
5004	Macizo	HP - 55	Coons	3.911
5005	Macizo	HP - 55	Coons	3.911
5006	Macizo	HP - 55	Coons	3.911
5007	Macizo	HP - 55	Coons	3.911
5008	Macizo	HP - 55	Coons	3.911
5009	Macizo	HP - 55	Coons	3.911
5010	Macizo	HP - 55	Coons	3.911
5011	Macizo	HP - 55	Coons	3.911
5012	Macizo	HP - 55	Coons	3.911
5101	Macizo	HP - 55	Coons	3.936
5102	Macizo	HP - 55	Coons	3.936
5103	Macizo	HP - 55	Coons	3.936
5104	Macizo	HP - 55	Coons	3.936
5105	Macizo	HP - 55	Coons	3.936
5106	Macizo	HP - 55	Coons	3.936
5107	Macizo	HP - 55	Coons	3.936
5108	Macizo	HP - 55	Coons	3.936
5109	Macizo	HP - 55	Coons	3.936
5110	Macizo	HP - 55	Coons	3.936
5111	Macizo	HP - 55	Coons	3.936
5112	Macizo	HP - 55	Coons	3.936

Apoyos Aplicados al Modelo

Nombre del apoyo	Lista de nudos	Condiciones de apoyo
Libre Longitudinal	17 19 217 278 3957 8130	UY UZ
Libre	6 7 9 11 232 250 276 277 279 4941 9113	UZ
Fijo	21	UX UY UZ

Coordenadas de los Nudos con Apoyos

Nudo	X (m)	Y (m)	Z (m)	Apoyo - código	Apoyo
6	0.500	3.125	0.026	llflll	Libre
7	90.231	-0.204	1.455	llflll	Libre
9	120.208	-0.794	1.455	llflll	Libre
11	149.936	-1.555	1.455	llflll	Libre
17	145.448	3.570	1.455	lfflll	Libre Longitudinal
19	115.694	4.309	1.455	lfflll	Libre Longitudinal
21	85.683	4.869	1.455	ffflll	Fijo
217	0.500	6.875	0.026	lfflll	Libre Longitudinal
232	5.000	-1.875	0.026	llflll	Libre
250	5.000	1.875	0.026	llflll	Libre
276	174.566	-0.392	1.455	llflll	Libre
277	174.566	-4.142	1.455	llflll	Libre
278	170.324	4.736	1.455	lfflll	Libre Longitudinal
279	170.324	0.986	1.455	llflll	Libre
3957	25.500	5.000	0.0	lfflll	Libre Longitudinal
4941	30.000	0.0	0.0	llflll	Libre
8130	56.000	5.000	0.0	lfflll	Libre Longitudinal
9113	60.500	0.0	0.0	llflll	Libre

Uniones Rígidas aplicadas al Modelo

Nombre de la unión	Descripción	Condiciones de la unión
Unión a Losa	Unión de los Paneles que Componen los Hastiales a los Paneles de la Losa	UX UY UZ RX RY RZ
Unión a Barra	Unión de la Sección Transversal de Elementos Finitos al Modelo de Barras	UX UY UZ RX RY RZ

Cargas Aplicadas al Modelo

Caso	Nombre del caso	Tipo de carga	Lista	Valores de carga
1	Peso Propio	peso propio	Toda la Estructura	PZ Menos
2	Carga Permanente	(EF) uniforme	1201A1274 1301A1374	PZ=-1.340(T/m^2)
2	Carga Permanente	(EF) uniforme	206A275 306A375	PZ=-1.550(T/m^2)
2	Carga Permanente	(EF) uniforme	106A175 1101A1174	PZ=-1.020(T/m^2)
2	Carga Permanente	sobrecarga uniforme	2 576A605 2355A2426	PZ=-8.178(T/m)
2	Carga Permanente	sobrecarga uniforme	176A205 2220A2287	PZ=-7.352(T/m)
2	Carga Permanente	momento repartido	2 576A605 2355A2426	MX=10.850(Tm/m)
2	Carga Permanente	momento repartido	176A205 2220A2287	MX=9.170(Tm/m)
11	LM-71 - Izquierda - T1	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=0.0(m) N1Y=3.143(m) N1Z=1.764(m) N2X=6.400(m) N2Y=3.143(m) N2Z=1.764(m)
11	LM-71 - Izquierda - T1	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=0.0(m) N1Y=4.810(m) N1Z=1.747(m) N2X=6.400(m) N2Y=4.810(m) N2Z=1.747(m)
11	LM-71 - Izquierda - T1	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=6.400(m) N1Y=4.810(m) N1Z=1.747(m) N2X=74.000(m) N2Y=4.810(m) N2Z=1.747(m)
11	LM-71 - Izquierda - T1	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=6.400(m) N1Y=3.143(m) N1Z=1.764(m) N2X=74.000(m) N2Y=3.143(m) N2Z=1.764(m)
12	LM-71 - Izquierda - T2	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=0.0(m) N1Y=4.013(m) N1Z=1.755(m) N2X=6.400(m) N2Y=4.013(m) N2Z=1.755(m)
12	LM-71 - Izquierda - T2	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=0.0(m) N1Y=5.680(m) N1Z=1.738(m) N2X=6.400(m) N2Y=5.680(m) N2Z=1.738(m)
12	LM-71 - Izquierda - T2	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=6.400(m) N1Y=5.680(m) N1Z=1.738(m) N2X=74.000(m) N2Y=5.680(m) N2Z=1.738(m)
12	LM-71 - Izquierda - T2	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=6.400(m) N1Y=4.013(m) N1Z=1.755(m) N2X=74.000(m) N2Y=4.013(m) N2Z=1.755(m)
13	LM-71 - Derecha - I3	(EF) lineal 2p (3D)		FZ1=-10.940(T/m) FZ2=-10.940(T/m) N1X=4.500(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=10.900(m) N2Y=-1.905(m) N2Z=1.726(m)
13	LM-71 - Derecha - I3	(EF) lineal 2p (3D)		FZ1=-10.940(T/m) FZ2=-10.940(T/m) N1X=4.500(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=10.900(m) N2Y=-0.238(m) N2Z=1.743(m)
13	LM-71 - Derecha - I3	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=10.900(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=74.400(m) N2Y=-1.905(m) N2Z=1.726(m)
13	LM-71 - Derecha - I3	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=10.900(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=74.400(m) N2Y=-0.238(m) N2Z=1.743(m)
14	LM-71 - Derecha - T3	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=4.500(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=10.900(m) N2Y=-0.666(m) N2Z=1.738(m)
14	LM-71 - Derecha - T3	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=4.500(m) N1Y=1.001(m) N1Z=1.755(m) N2X=10.900(m) N2Y=1.001(m) N2Z=1.755(m)
14	LM-71 - Derecha - T3	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=10.900(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=74.500(m) N2Y=-0.666(m) N2Z=1.738(m)
14	LM-71 - Derecha - T3	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=10.900(m) N1Y=1.001(m) N1Z=1.755(m) N2X=74.500(m) N2Y=1.001(m) N2Z=1.755(m)
15	LM-71 - Izquierda - T3	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=4.500(m) N1Y=4.810(m) N1Z=1.747(m) N2X=10.900(m) N2Y=4.810(m) N2Z=1.747(m)
15	LM-71 - Izquierda - T3	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=4.500(m) N1Y=3.143(m) N1Z=1.764(m) N2X=10.900(m) N2Y=3.143(m) N2Z=1.764(m)
15	LM-71 - Izquierda - T3	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=4.810(m) N1Z=1.747(m) N2X=4.500(m) N2Y=4.810(m) N2Z=1.747(m)
15	LM-71 - Izquierda - T3	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=3.143(m) N1Z=1.764(m) N2X=4.500(m) N2Y=3.143(m) N2Z=1.764(m)
15	LM-71 - Izquierda - T3	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=10.900(m) N1Y=4.810(m) N1Z=1.747(m) N2X=74.000(m) N2Y=4.810(m) N2Z=1.747(m)
15	LM-71 - Izquierda - T3	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=10.900(m) N1Y=3.143(m) N1Z=1.764(m) N2X=74.000(m) N2Y=3.143(m) N2Z=1.764(m)

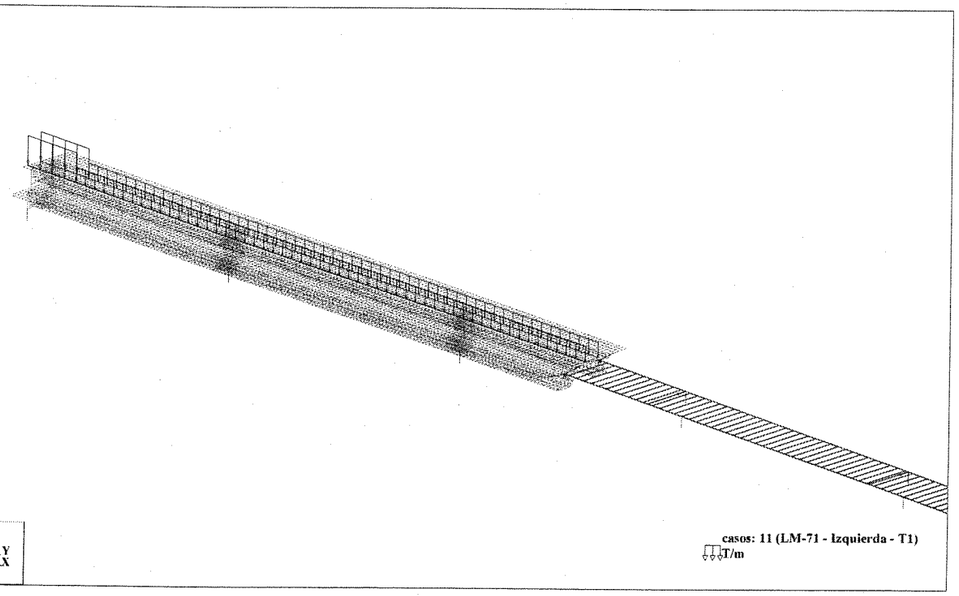
16	LM-71 - Izquierda - T4	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=4.013(m) N1Z=1.755(m) N2X=4.500(m) N2Y=4.013(m) N2Z=1.755(m)
16	LM-71 - Izquierda - T4	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=10.900(m) N1Y=5.680(m) N1Z=1.738(m) N2X=74.000(m) N2Y=5.680(m) N2Z=1.738(m)
16	LM-71 - Izquierda - T4	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=10.900(m) N1Y=4.013(m) N1Z=1.755(m) N2X=74.000(m) N2Y=4.013(m) N2Z=1.755(m)
16	LM-71 - Izquierda - T4	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=5.680(m) N1Z=1.738(m) N2X=4.500(m) N2Y=5.680(m) N2Z=1.738(m)
16	LM-71 - Izquierda - T4	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=4.500(m) N1Y=5.680(m) N1Z=1.738(m) N2X=10.900(m) N2Y=5.680(m) N2Z=1.738(m)
16	LM-71 - Izquierda - T4	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=4.500(m) N1Y=4.013(m) N1Z=1.755(m) N2X=10.900(m) N2Y=4.013(m) N2Z=1.755(m)
17	LM-71 - Derecha - I5	(EF) lineal 2p (3D)		FZ1=-10.940(T/m) FZ2=-10.940(T/m) N1X=42.050(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=48.450(m) N2Y=-0.238(m) N2Z=1.743(m)
17	LM-71 - Derecha - I5	(EF) lineal 2p (3D)		FZ1=-10.940(T/m) FZ2=-10.940(T/m) N1X=42.050(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=48.450(m) N2Y=-1.905(m) N2Z=1.726(m)
17	LM-71 - Derecha - I5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=42.050(m) N2Y=-0.238(m) N2Z=1.743(m)
17	LM-71 - Derecha - I5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=42.050(m) N2Y=-1.905(m) N2Z=1.726(m)
17	LM-71 - Derecha - I5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=48.450(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=74.500(m) N2Y=-0.238(m) N2Z=1.743(m)
17	LM-71 - Derecha - I5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=48.450(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=74.500(m) N2Y=-1.905(m) N2Z=1.726(m)
18	LM-71 - Derecha - T5	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=42.050(m) N1Y=1.001(m) N1Z=1.755(m) N2X=48.450(m) N2Y=1.001(m) N2Z=1.755(m)
18	LM-71 - Derecha - T5	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=42.050(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=48.450(m) N2Y=-0.666(m) N2Z=1.738(m)
18	LM-71 - Derecha - T5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=1.001(m) N1Z=1.755(m) N2X=42.050(m) N2Y=1.001(m) N2Z=1.755(m)
18	LM-71 - Derecha - T5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=42.050(m) N2Y=-0.666(m) N2Z=1.738(m)
18	LM-71 - Derecha - T5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=48.450(m) N1Y=1.001(m) N1Z=1.755(m) N2X=74.500(m) N2Y=1.001(m) N2Z=1.755(m)
18	LM-71 - Derecha - T5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=48.450(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=74.500(m) N2Y=-0.666(m) N2Z=1.738(m)
19	LM-71 - Izquierda - T5	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=42.050(m) N1Y=4.810(m) N1Z=1.747(m) N2X=48.450(m) N2Y=4.810(m) N2Z=1.747(m)
19	LM-71 - Izquierda - T5	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=42.050(m) N1Y=3.143(m) N1Z=1.764(m) N2X=48.450(m) N2Y=3.143(m) N2Z=1.764(m)
19	LM-71 - Izquierda - T5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=4.810(m) N1Z=1.747(m) N2X=42.050(m) N2Y=4.810(m) N2Z=1.747(m)
19	LM-71 - Izquierda - T5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=3.143(m) N1Z=1.764(m) N2X=42.050(m) N2Y=3.143(m) N2Z=1.764(m)
19	LM-71 - Izquierda - T5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=48.450(m) N1Y=4.810(m) N1Z=1.747(m) N2X=74.000(m) N2Y=4.810(m) N2Z=1.747(m)
19	LM-71 - Izquierda - T5	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=48.450(m) N1Y=3.143(m) N1Z=1.764(m) N2X=74.000(m) N2Y=3.143(m) N2Z=1.764(m)
20	LM-71 - Izquierda - T6	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=42.050(m) N1Y=5.680(m) N1Z=1.738(m) N2X=48.450(m) N2Y=5.680(m) N2Z=1.738(m)
20	LM-71 - Izquierda - T6	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=42.050(m) N1Y=4.013(m) N1Z=1.755(m) N2X=48.450(m) N2Y=4.013(m) N2Z=1.755(m)
20	LM-71 - Izquierda - T6	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=5.680(m) N1Z=1.738(m) N2X=42.050(m) N2Y=5.680(m) N2Z=1.738(m)
20	LM-71 - Izquierda - T6	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=4.013(m) N1Z=1.755(m) N2X=42.050(m) N2Y=4.013(m) N2Z=1.755(m)
20	LM-71 - Izquierda - T6	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=48.450(m) N1Y=5.680(m) N1Z=1.738(m) N2X=74.000(m) N2Y=5.680(m) N2Z=1.738(m)
20	LM-71 - Izquierda - T6	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=48.450(m) N1Y=4.013(m) N1Z=1.755(m) N2X=74.000(m) N2Y=4.013(m) N2Z=1.755(m)
21	LM-71 - Derecha - I7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=52.800(m) N2Y=-1.905(m) N2Z=1.726(m)
21	LM-71 - Derecha - I7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=52.800(m) N2Y=-0.238(m) N2Z=1.743(m)
21	LM-71 - Derecha - I7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=59.200(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=74.500(m) N2Y=-1.905(m) N2Z=1.726(m)

21	LM-71 - Derecha - I7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=59.200(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=74.500(m) N2Y=-0.238(m) N2Z=1.743(m)
21	LM-71 - Derecha - I7	(EF) lineal 2p (3D)		FZ1=-10.940(T/m) FZ2=-10.940(T/m) N1X=52.800(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=59.200(m) N2Y=-0.238(m) N2Z=1.743(m)
21	LM-71 - Derecha - I7	(EF) lineal 2p (3D)		FZ1=-10.940(T/m) FZ2=-10.940(T/m) N1X=52.800(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=59.200(m) N2Y=-1.905(m) N2Z=1.726(m)
22	LM-71 - Derecha - T7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=59.200(m) N1Y=1.001(m) N1Z=1.755(m) N2X=74.500(m) N2Y=1.001(m) N2Z=1.755(m)
22	LM-71 - Derecha - T7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=59.200(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=74.500(m) N2Y=-0.666(m) N2Z=1.738(m)
22	LM-71 - Derecha - T7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=1.001(m) N1Z=1.755(m) N2X=52.800(m) N2Y=1.001(m) N2Z=1.755(m)
22	LM-71 - Derecha - T7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=52.800(m) N2Y=-0.666(m) N2Z=1.738(m)
22	LM-71 - Derecha - T7	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=52.800(m) N1Y=1.001(m) N1Z=1.755(m) N2X=59.200(m) N2Y=1.001(m) N2Z=1.755(m)
22	LM-71 - Derecha - T7	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=52.800(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=59.200(m) N2Y=-0.666(m) N2Z=1.738(m)
23	LM-71 - Izquierda - T7	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=52.800(m) N1Y=4.810(m) N1Z=1.747(m) N2X=59.200(m) N2Y=4.810(m) N2Z=1.747(m)
23	LM-71 - Izquierda - T7	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=52.800(m) N1Y=3.143(m) N1Z=1.764(m) N2X=59.200(m) N2Y=3.143(m) N2Z=1.764(m)
23	LM-71 - Izquierda - T7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=4.810(m) N1Z=1.747(m) N2X=52.800(m) N2Y=4.810(m) N2Z=1.747(m)
23	LM-71 - Izquierda - T7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=3.143(m) N1Z=1.764(m) N2X=52.800(m) N2Y=3.143(m) N2Z=1.764(m)
23	LM-71 - Izquierda - T7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=59.200(m) N1Y=4.810(m) N1Z=1.747(m) N2X=74.000(m) N2Y=4.810(m) N2Z=1.747(m)
23	LM-71 - Izquierda - T7	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=59.200(m) N1Y=3.143(m) N1Z=1.764(m) N2X=74.000(m) N2Y=3.143(m) N2Z=1.764(m)
24	LM-71 - Izquierda - T8	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=59.200(m) N1Y=5.680(m) N1Z=1.738(m) N2X=74.000(m) N2Y=5.680(m) N2Z=1.738(m)
24	LM-71 - Izquierda - T8	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=59.200(m) N1Y=4.013(m) N1Z=1.755(m) N2X=74.000(m) N2Y=4.013(m) N2Z=1.755(m)
24	LM-71 - Izquierda - T8	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=4.013(m) N1Z=1.755(m) N2X=52.800(m) N2Y=4.013(m) N2Z=1.755(m)
24	LM-71 - Izquierda - T8	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=5.680(m) N1Z=1.738(m) N2X=52.800(m) N2Y=5.680(m) N2Z=1.738(m)
24	LM-71 - Izquierda - T8	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=52.800(m) N1Y=4.013(m) N1Z=1.755(m) N2X=59.200(m) N2Y=4.013(m) N2Z=1.755(m)
24	LM-71 - Izquierda - T8	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=52.800(m) N1Y=5.680(m) N1Z=1.738(m) N2X=59.200(m) N2Y=5.680(m) N2Z=1.738(m)
25	LM-71 - Derecha - I9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=63.700(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=74.500(m) N2Y=-0.238(m) N2Z=1.743(m)
25	LM-71 - Derecha - I9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=63.700(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=74.500(m) N2Y=-1.905(m) N2Z=1.726(m)
25	LM-71 - Derecha - I9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=57.300(m) N2Y=-0.238(m) N2Z=1.743(m)
25	LM-71 - Derecha - I9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=57.300(m) N2Y=-1.905(m) N2Z=1.726(m)
25	LM-71 - Derecha - I9	(EF) lineal 2p (3D)		FZ1=-10.940(T/m) FZ2=-10.940(T/m) N1X=57.300(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=63.700(m) N2Y=-0.238(m) N2Z=1.743(m)
25	LM-71 - Derecha - I9	(EF) lineal 2p (3D)		FZ1=-10.940(T/m) FZ2=-10.940(T/m) N1X=57.300(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=63.700(m) N2Y=-1.905(m) N2Z=1.726(m)
26	LM-71 - Derecha - T9	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=57.300(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=63.700(m) N2Y=-0.666(m) N2Z=1.738(m)
26	LM-71 - Derecha - T9	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=57.300(m) N1Y=1.001(m) N1Z=1.755(m) N2X=63.700(m) N2Y=1.001(m) N2Z=1.755(m)
26	LM-71 - Derecha - T9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=57.300(m) N2Y=-0.666(m) N2Z=1.738(m)
26	LM-71 - Derecha - T9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=1.001(m) N1Z=1.755(m) N2X=57.300(m) N2Y=1.001(m) N2Z=1.755(m)
26	LM-71 - Derecha - T9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=63.700(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=74.500(m) N2Y=-0.666(m) N2Z=1.738(m)
26	LM-71 - Derecha - T9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=63.700(m) N1Y=1.001(m) N1Z=1.755(m) N2X=74.500(m) N2Y=1.001(m) N2Z=1.755(m)

27	LM-71 - Izquierda - T9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=63.700(m) N1Y=3.143(m) N1Z=1.764(m) N2X=74.000(m) N2Y=3.143(m) N2Z=1.764(m)
27	LM-71 - Izquierda - T9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=63.700(m) N1Y=4.810(m) N1Z=1.747(m) N2X=74.000(m) N2Y=4.810(m) N2Z=1.747(m)
27	LM-71 - Izquierda - T9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=3.143(m) N1Z=1.764(m) N2X=57.300(m) N2Y=3.143(m) N2Z=1.764(m)
27	LM-71 - Izquierda - T9	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=4.810(m) N1Z=1.747(m) N2X=57.300(m) N2Y=4.810(m) N2Z=1.747(m)
27	LM-71 - Izquierda - T9	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=57.300(m) N1Y=3.143(m) N1Z=1.764(m) N2X=63.700(m) N2Y=3.143(m) N2Z=1.764(m)
27	LM-71 - Izquierda - T9	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=57.300(m) N1Y=4.810(m) N1Z=1.747(m) N2X=63.700(m) N2Y=4.810(m) N2Z=1.747(m)
28	LM-71 - Izquierda - T10	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=63.700(m) N1Y=4.013(m) N1Z=1.755(m) N2X=74.000(m) N2Y=4.013(m) N2Z=1.755(m)
28	LM-71 - Izquierda - T10	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=63.700(m) N1Y=5.680(m) N1Z=1.738(m) N2X=74.000(m) N2Y=5.680(m) N2Z=1.738(m)
28	LM-71 - Izquierda - T10	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=4.013(m) N1Z=1.755(m) N2X=57.300(m) N2Y=4.013(m) N2Z=1.755(m)
28	LM-71 - Izquierda - T10	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=5.680(m) N1Z=1.738(m) N2X=57.300(m) N2Y=5.680(m) N2Z=1.738(m)
28	LM-71 - Izquierda - T10	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=57.300(m) N1Y=4.013(m) N1Z=1.755(m) N2X=63.700(m) N2Y=4.013(m) N2Z=1.755(m)
28	LM-71 - Izquierda - T10	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=57.300(m) N1Y=5.680(m) N1Z=1.738(m) N2X=63.700(m) N2Y=5.680(m) N2Z=1.738(m)
29	LM-71 - Derecha - I11	(EF) lineal 2p (3D)		FZ1=-10.940(T/m) FZ2=-10.940(T/m) N1X=60.500(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=66.900(m) N2Y=-1.905(m) N2Z=1.726(m)
29	LM-71 - Derecha - I11	(EF) lineal 2p (3D)		FZ1=-10.940(T/m) FZ2=-10.940(T/m) N1X=60.500(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=66.900(m) N2Y=-0.238(m) N2Z=1.743(m)
29	LM-71 - Derecha - I11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=60.500(m) N2Y=-1.905(m) N2Z=1.726(m)
29	LM-71 - Derecha - I11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=60.500(m) N2Y=-0.238(m) N2Z=1.743(m)
29	LM-71 - Derecha - I11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=66.900(m) N1Y=-1.905(m) N1Z=1.726(m) N2X=74.500(m) N2Y=-1.905(m) N2Z=1.726(m)
29	LM-71 - Derecha - I11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=66.900(m) N1Y=-0.238(m) N1Z=1.743(m) N2X=74.500(m) N2Y=-0.238(m) N2Z=1.743(m)
30	LM-71 - Derecha -T11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=66.900(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=74.500(m) N2Y=-0.666(m) N2Z=1.738(m)
30	LM-71 - Derecha -T11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=66.900(m) N1Y=1.001(m) N1Z=1.755(m) N2X=74.500(m) N2Y=1.001(m) N2Z=1.755(m)
30	LM-71 - Derecha -T11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=1.001(m) N1Z=1.755(m) N2X=60.500(m) N2Y=1.001(m) N2Z=1.755(m)
30	LM-71 - Derecha -T11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=4.500(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=60.500(m) N2Y=-0.666(m) N2Z=1.738(m)
30	LM-71 - Derecha -T11	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=60.500(m) N1Y=1.001(m) N1Z=1.755(m) N2X=66.900(m) N2Y=1.001(m) N2Z=1.755(m)
30	LM-71 - Derecha -T11	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=60.500(m) N1Y=-0.666(m) N1Z=1.738(m) N2X=66.900(m) N2Y=-0.666(m) N2Z=1.738(m)
31	LM-71 - Izquierda -T11	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=60.500(m) N1Y=4.810(m) N1Z=1.747(m) N2X=66.900(m) N2Y=4.810(m) N2Z=1.747(m)
31	LM-71 - Izquierda -T11	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=60.500(m) N1Y=3.143(m) N1Z=1.764(m) N2X=66.900(m) N2Y=3.143(m) N2Z=1.764(m)
31	LM-71 - Izquierda -T11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=4.810(m) N1Z=1.747(m) N2X=60.500(m) N2Y=4.810(m) N2Z=1.747(m)
31	LM-71 - Izquierda -T11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=3.143(m) N1Z=1.764(m) N2X=60.500(m) N2Y=3.143(m) N2Z=1.764(m)
31	LM-71 - Izquierda -T11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=66.900(m) N1Y=4.810(m) N1Z=1.747(m) N2X=74.000(m) N2Y=4.810(m) N2Z=1.747(m)
31	LM-71 - Izquierda -T11	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=66.900(m) N1Y=3.143(m) N1Z=1.764(m) N2X=74.000(m) N2Y=3.143(m) N2Z=1.764(m)
32	LM-71 - Izquierda -T12	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=60.500(m) N1Y=5.680(m) N1Z=1.738(m) N2X=66.900(m) N2Y=5.680(m) N2Z=1.738(m)
32	LM-71 - Izquierda -T12	(EF) lineal 2p (3D)		FZ1=-7.810(T/m) FZ2=-7.810(T/m) N1X=60.500(m) N1Y=4.013(m) N1Z=1.755(m) N2X=66.900(m) N2Y=4.013(m) N2Z=1.755(m)
32	LM-71 - Izquierda -T12	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=5.680(m) N1Z=1.738(m) N2X=60.500(m) N2Y=5.680(m) N2Z=1.738(m)

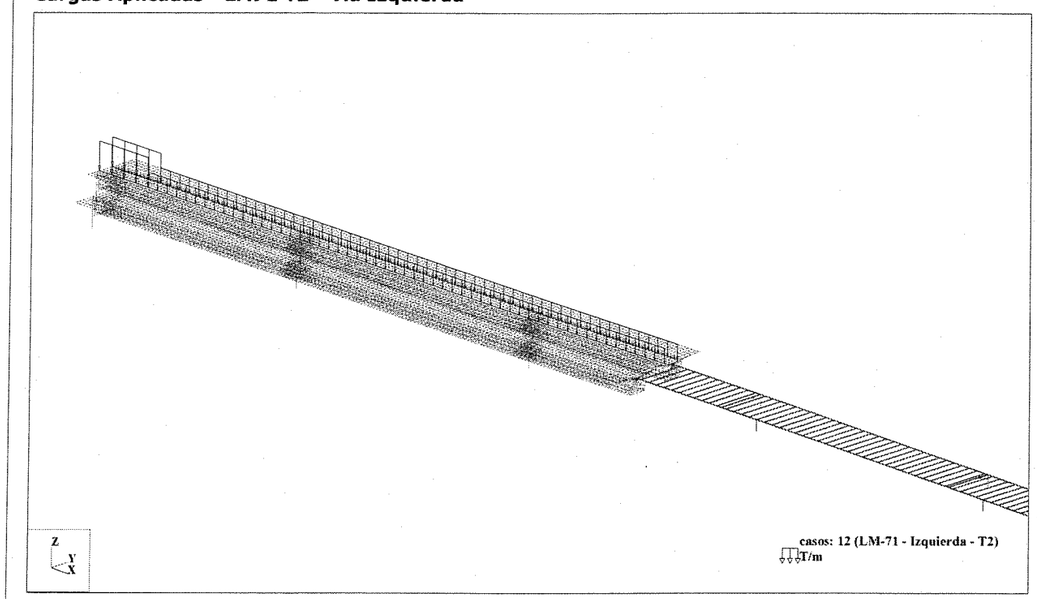
32	LM-71 - Izquierda -T12	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=0.0(m) N1Y=4.013(m) N1Z=1.755(m) N2X=60.500(m) N2Y=4.013(m) N2Z=1.755(m)
32	LM-71 - Izquierda -T12	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=66.900(m) N1Y=5.680(m) N1Z=1.738(m) N2X=74.000(m) N2Y=5.680(m) N2Z=1.738(m)
32	LM-71 - Izquierda -T12	(EF) lineal 2p (3D)		FZ1=-4.000(T/m) FZ2=-4.000(T/m) N1X=66.900(m) N1Y=4.013(m) N1Z=1.755(m) N2X=74.000(m) N2Y=4.013(m) N2Z=1.755(m)
41	Sobrecarga Acera Derecha	(EF) uniforme	106A174	PZ=-0.500(T/m^2)
42	Sobrecarga Acera Izquierda	(EF) uniforme	1101A1174	PZ=-0.500(T/m^2)

Cargas Aplicadas - LM71 T1 - Vía Izquierda

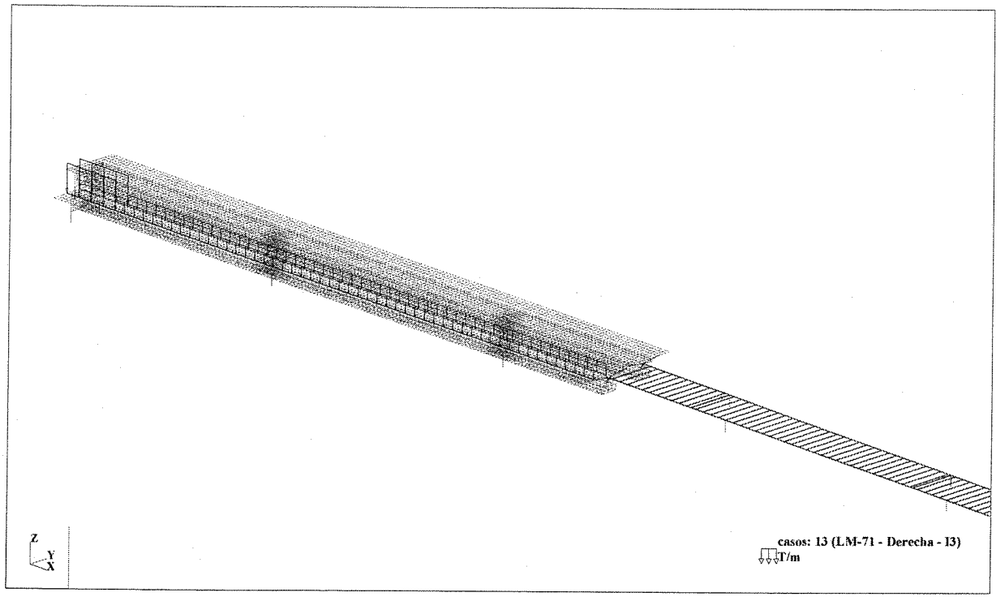


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Autor :
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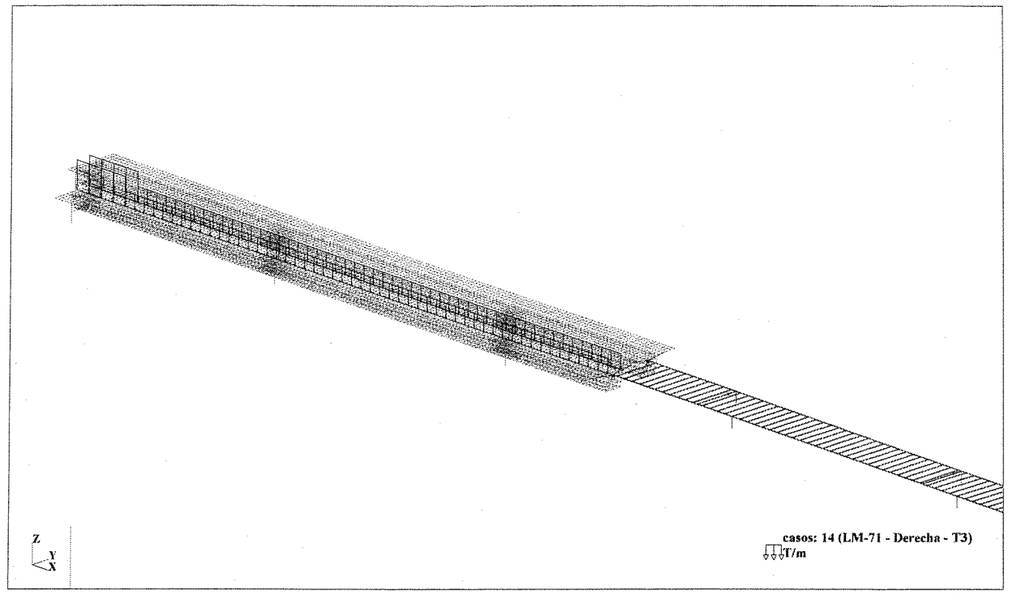
Cargas Aplicadas - LM71 T2 - Vía Izquierda



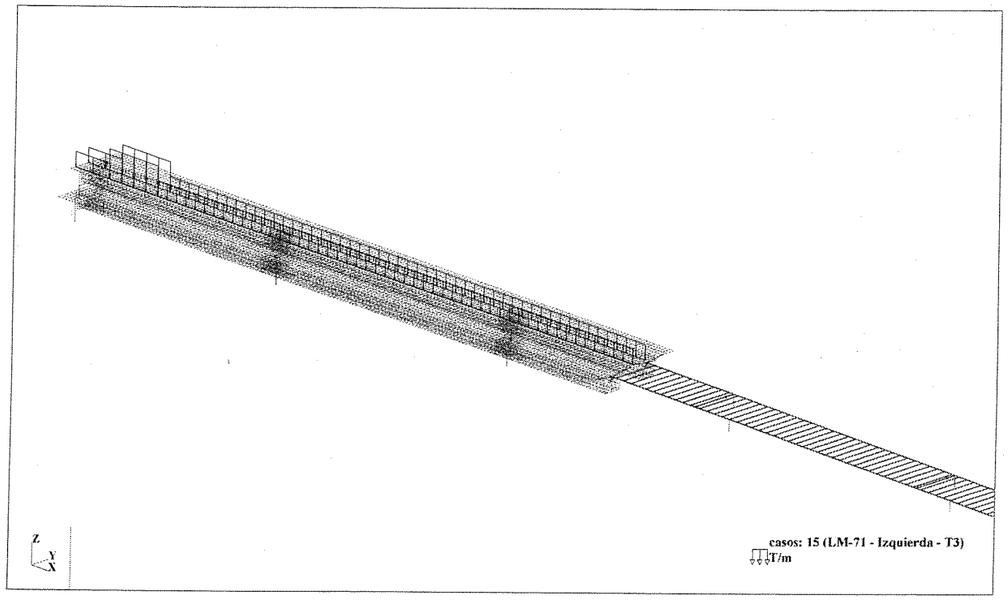
Cargas Aplicadas - LM71 I3 - Vía Derecha



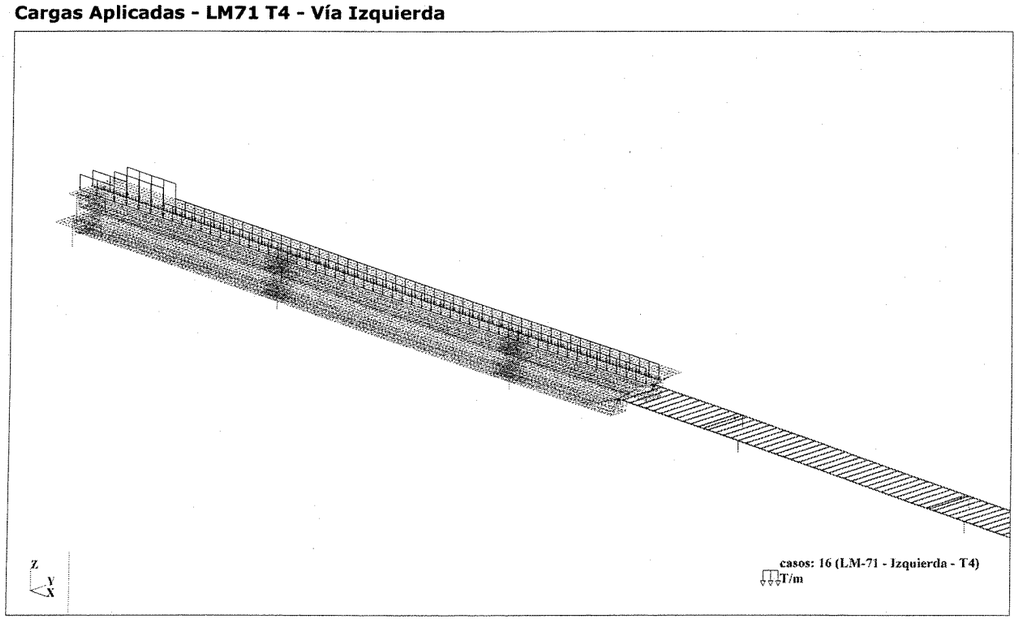
Cargas Aplicadas - LM71 T3 - Vía Derecha



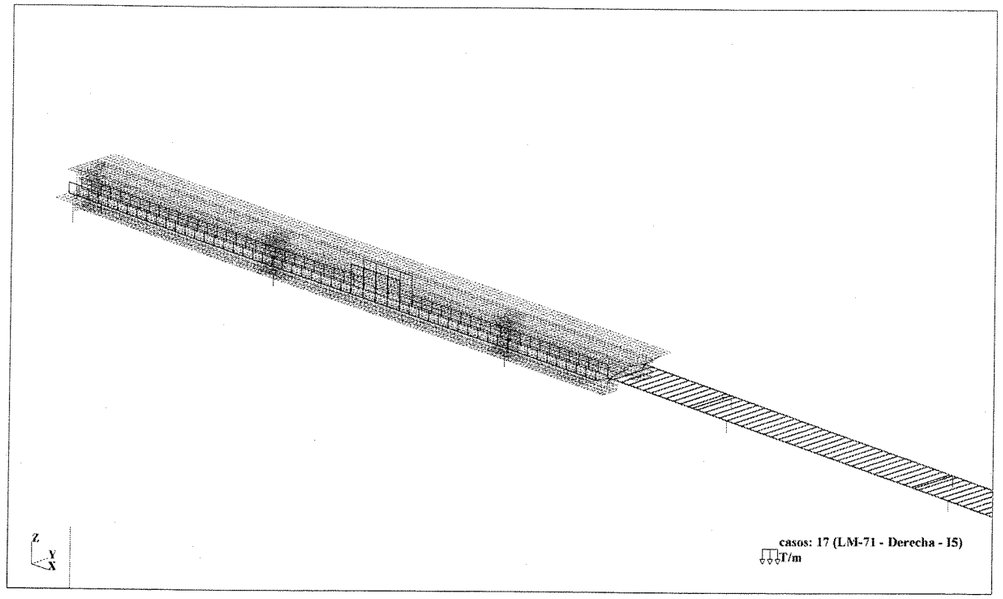
Cargas Aplicadas - LM71 T3 - Vía Izquierda



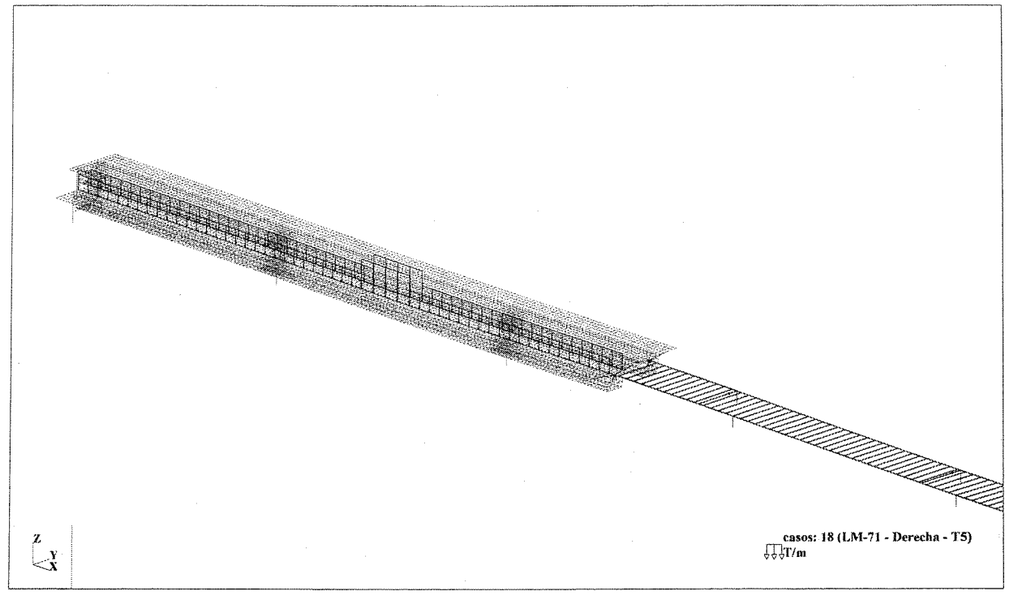
Cargas Aplicadas - LM71 T4 - Vía Izquierda



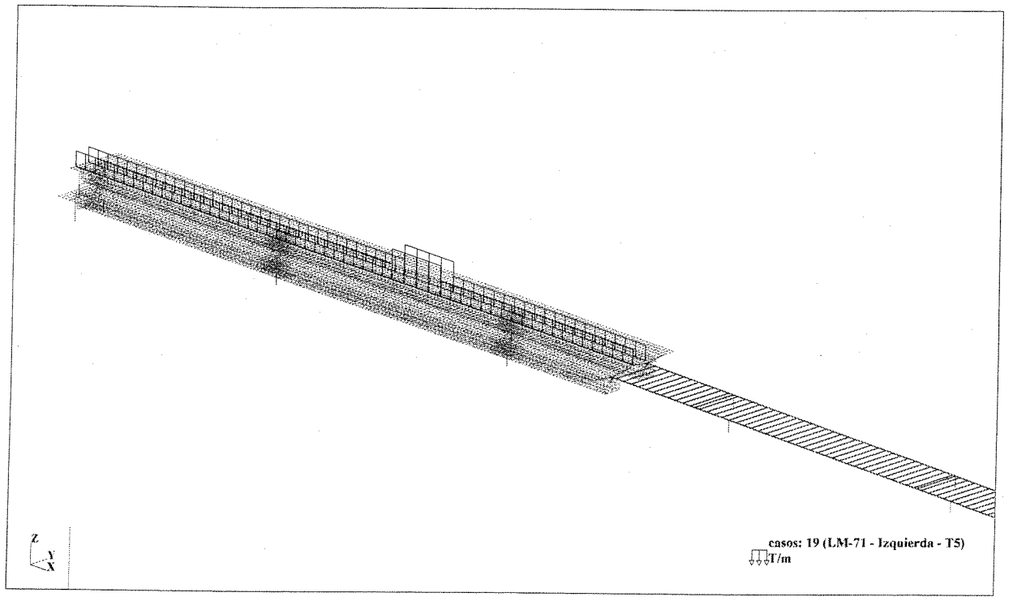
Cargas Aplicadas - LM71 I5 - Vía Derecha



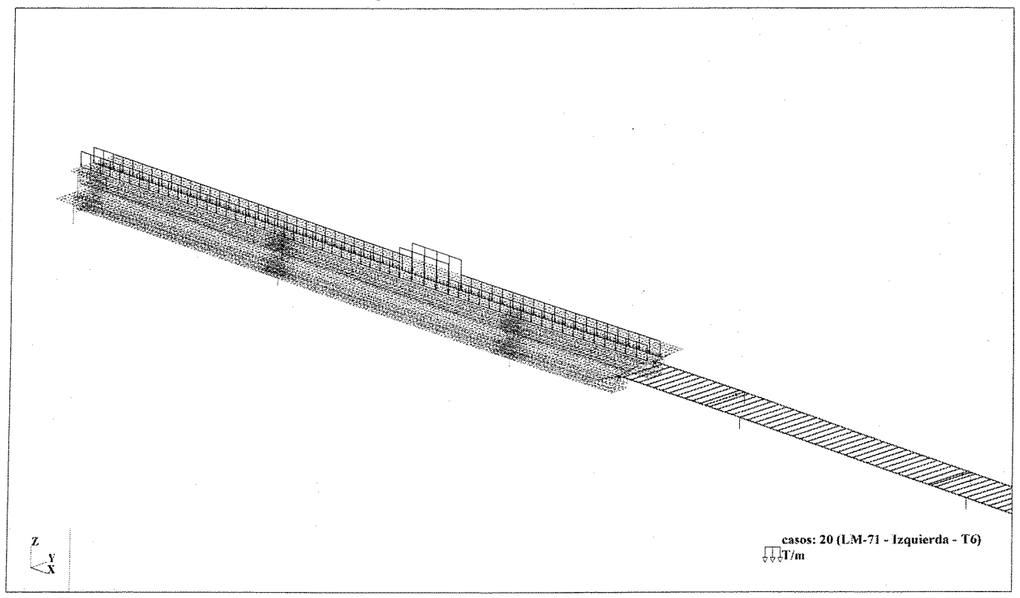
Cargas Aplicadas - LM71 T5 - Vía Derecha



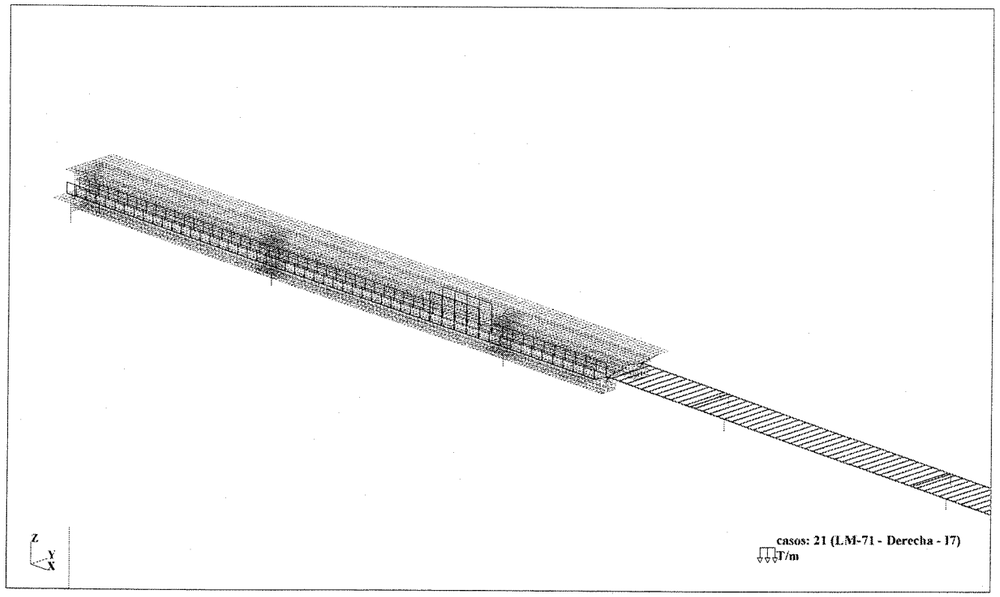
Cargas Aplicadas - LM71 T5 - Vía Izquierda



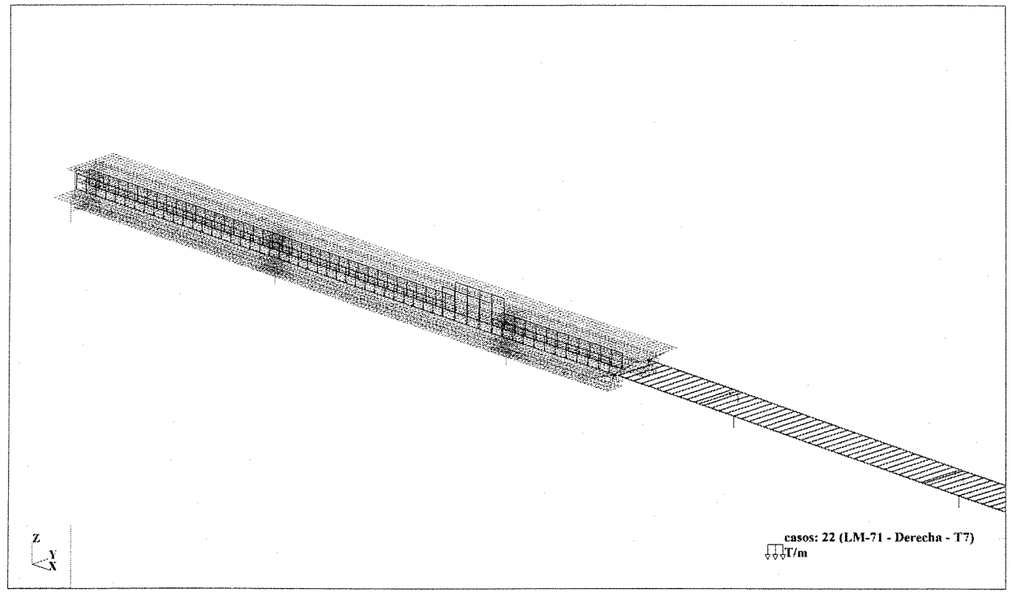
Cargas Aplicadas - LM71 T6 - Vía Izquierda



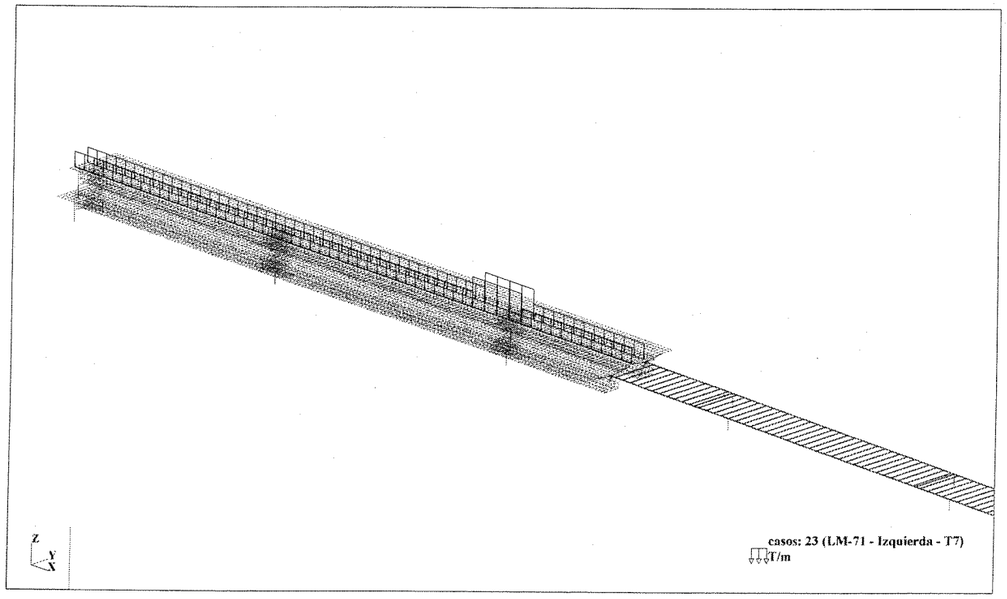
Cargas Aplicadas - LM71 I7 - Vía Derecha



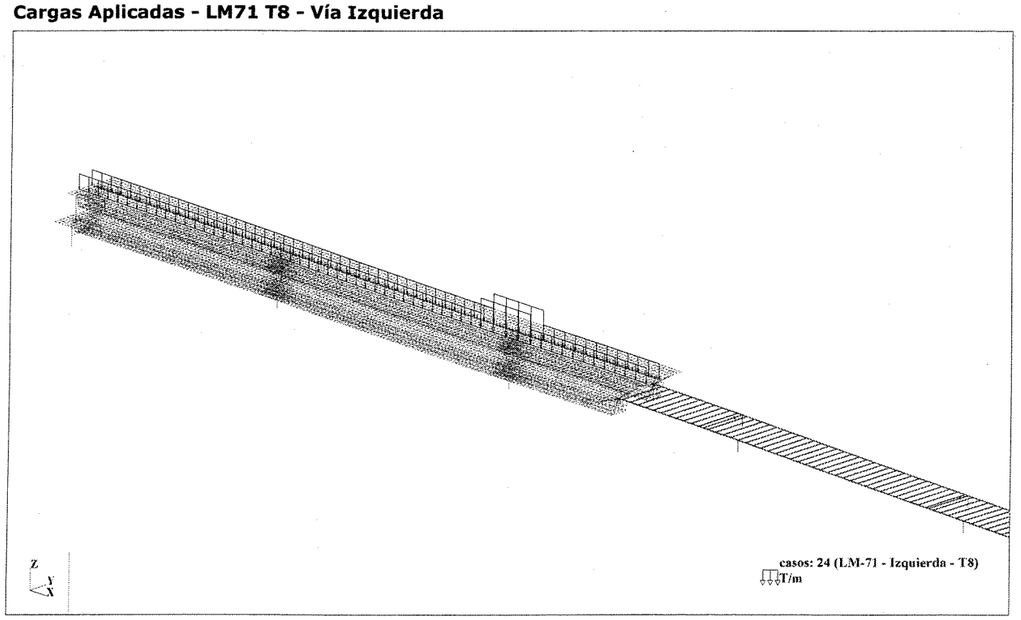
Cargas Aplicadas - LM71 T7 - Vía Derecha



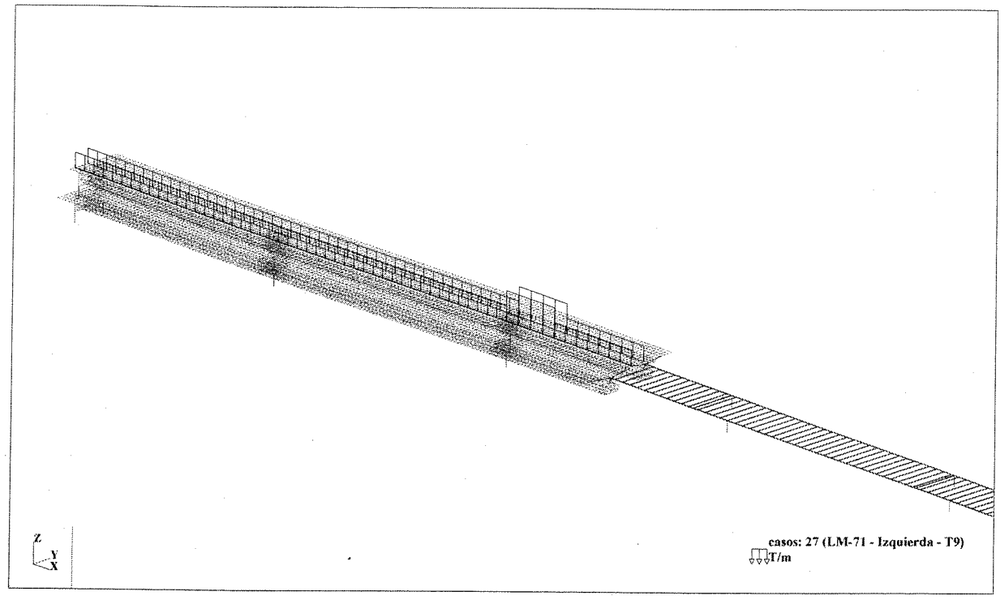
Cargas Aplicadas - LM71 T7 - Vía Izquierda



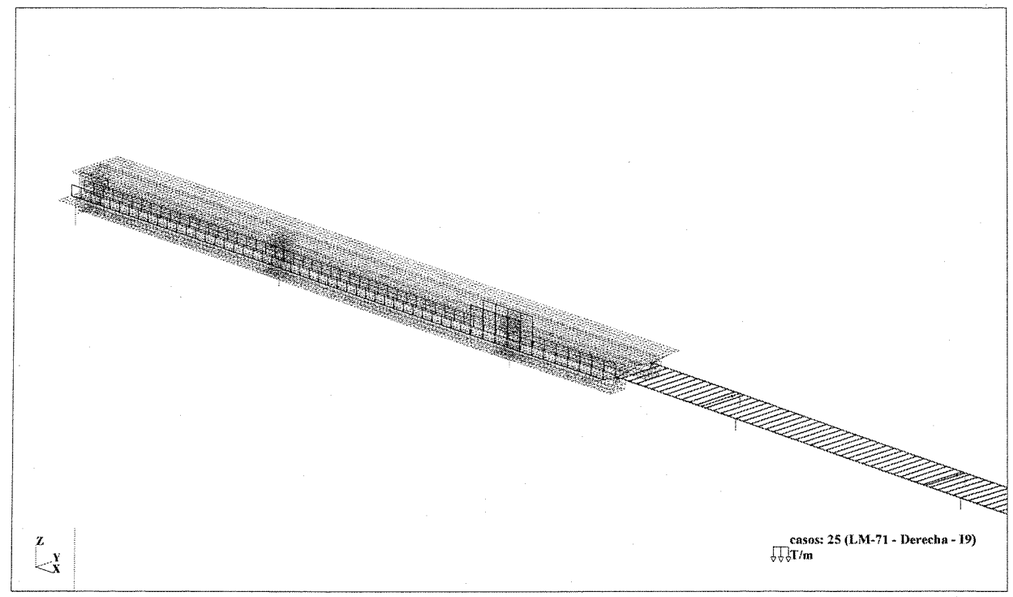
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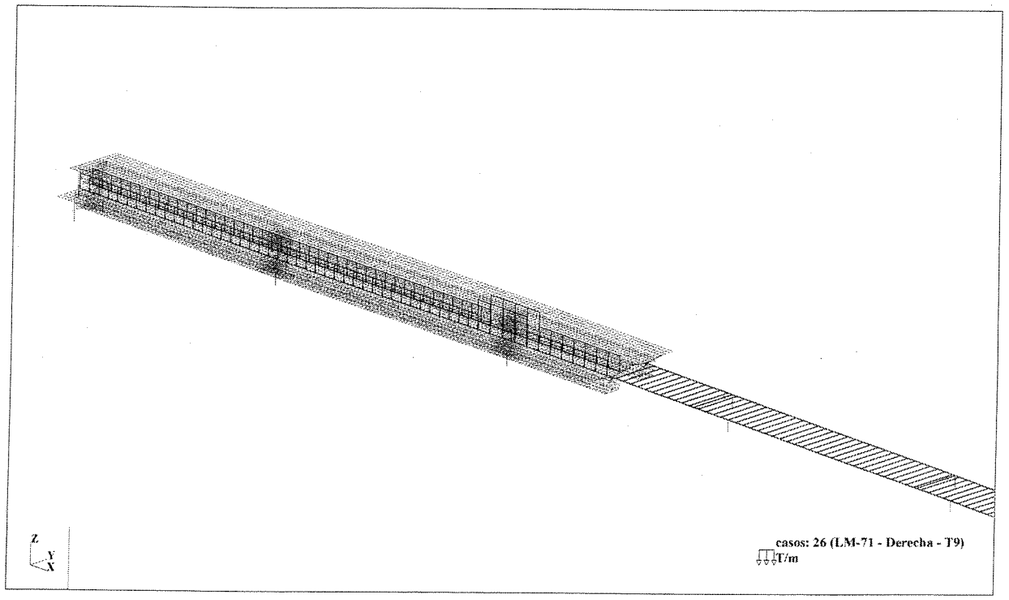
Cargas Aplicadas - LM71 T9 - Vía Izquierda



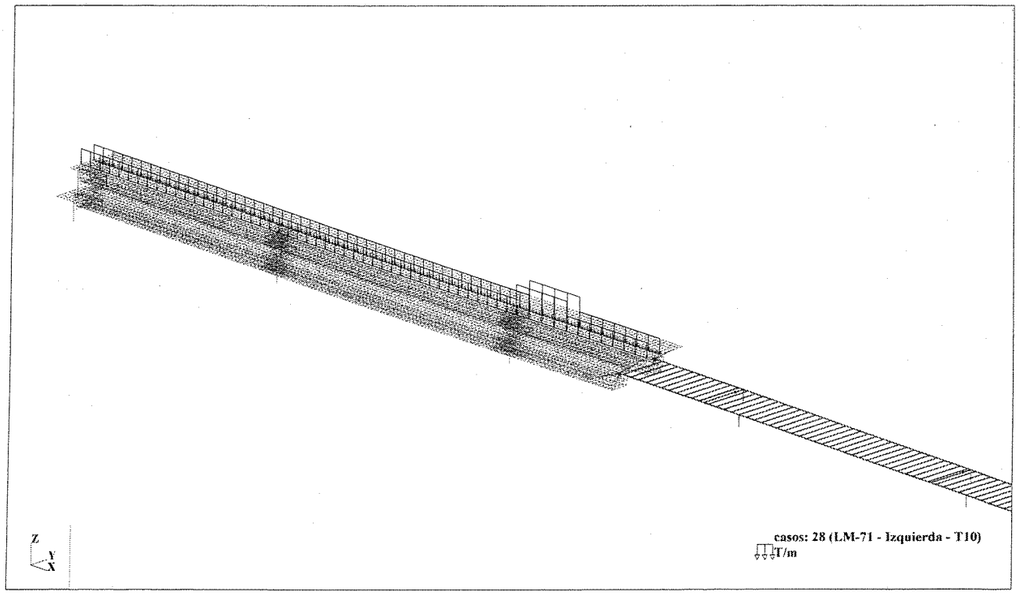
Cargas Aplicadas - LM71 I9 - Vía Derecha



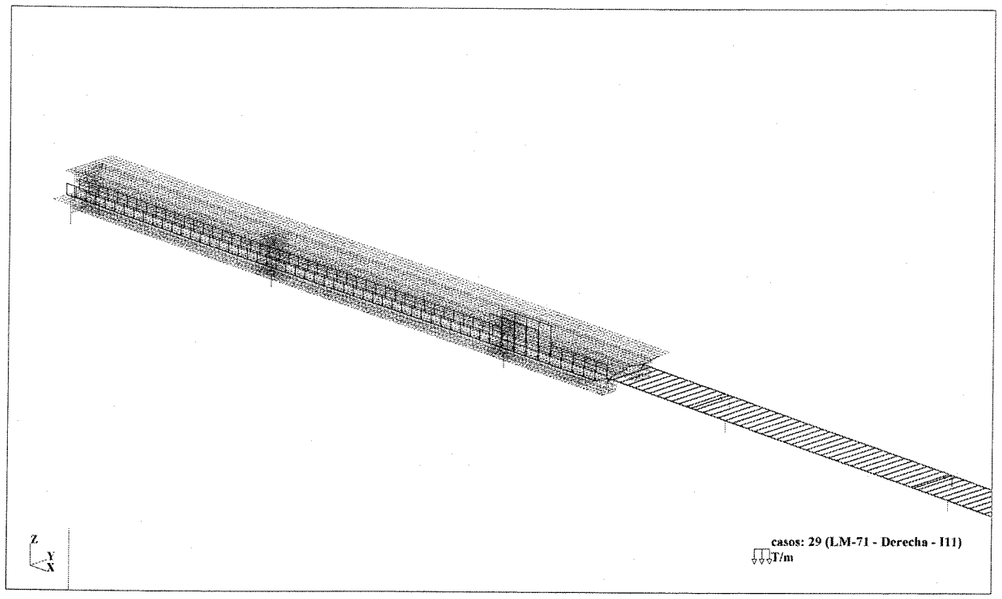
Cargas Aplicadas - LM71 T9 - Vía Derecha



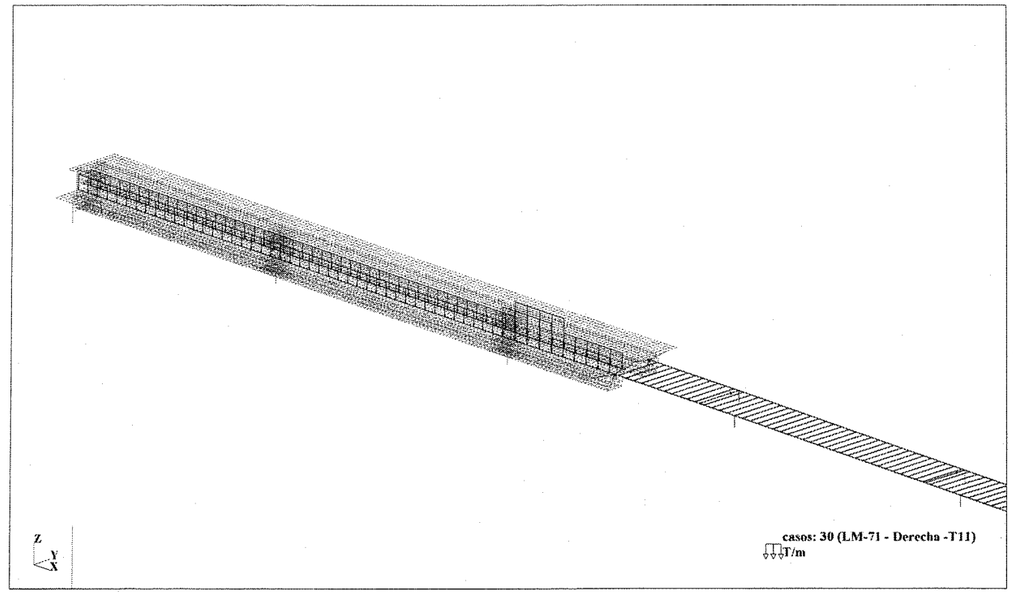
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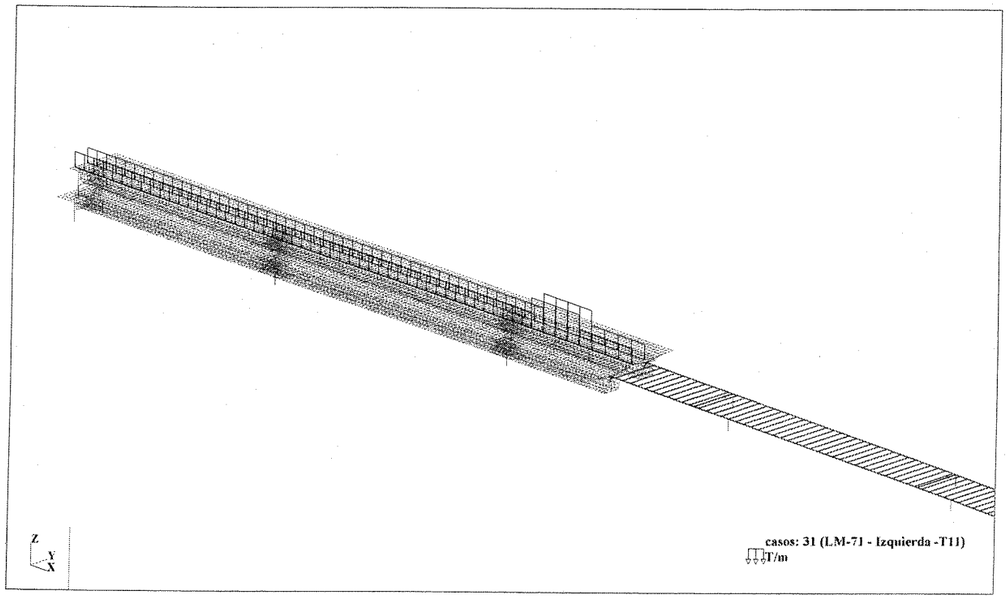
Cargas Aplicadas - LM71 I11 - Vía Derecha



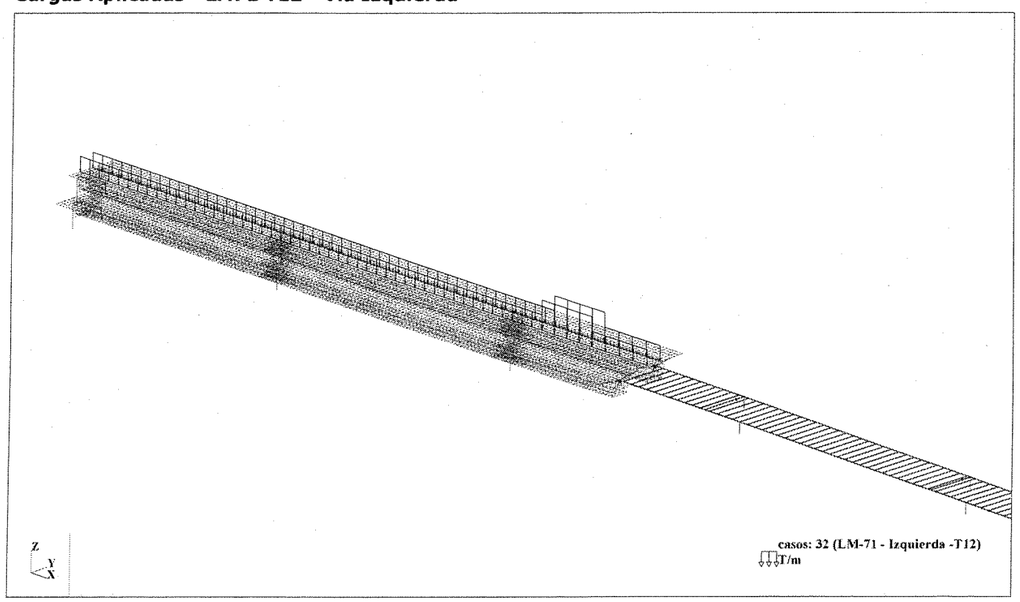
Cargas Aplicadas - LM71 T11 - Vía Derecha



Cargas Aplicadas - LM71 T11 - Vía Izquierda



Cargas Aplicadas - LM71 T12 - Vía Izquierda



Combinación de las Cargas Aplicadas al Modelo

Combinación	Nombre	Tipo de análisis	Naturaleza	Definición
51 (C)	ELU-1	Combinación lineal	ELU	(1+2)*1.35
52 (C)	ELU-2	Combinación lineal	ELU	(1+2)*1.35+11*1.50
53 (C)	ELU-3	Combinación lineal	ELU	(1+2)*1.35+12*1.50
54 (C)	ELU-4	Combinación lineal	ELU	(1+2)*1.35+(11+42)*1.50
55 (C)	ELU-5	Combinación lineal	ELU	(1+2)*1.35+(12+42)*1.50
56 (C)	ELU-6	Combinación lineal	ELU	(1+2+13+41)*1.00
57 (C)	ELU-7	Combinación lineal	ELU	(1+2)*1.35+(14+41)*1.50
58 (C)	ELU-8	Combinación lineal	ELU	(1+2)*1.35+(15+42)*1.50
59 (C)	ELU-9	Combinación lineal	ELU	(1+2)*1.35+(16+42)*1.50
60 (C)	ELU-10	Combinación lineal	ELU	(1+2+13+15+41+42)*1.00
61 (C)	ELU-11	Combinación lineal	ELU	(1+2+13+16+41+42)*1.00
62 (C)	ELU-12	Combinación lineal	ELU	(1+2)*1.35+(14+15+41+42)*1.50
63 (C)	ELU-13	Combinación lineal	ELU	(1+2)*1.35+(14+16+41+42)*1.50
64 (C)	ELU-14	Combinación lineal	ELU	(1+2+17+41)*1.00
65 (C)	ELU-15	Combinación lineal	ELU	(1+2)*1.35+(18+41)*1.50
66 (C)	ELU-16	Combinación lineal	ELU	(1+2)*1.35+(19+42)*1.50
67 (C)	ELU-17	Combinación lineal	ELU	(1+2)*1.35+20*1.50+42*1.00
68 (C)	ELU-18	Combinación lineal	ELU	(1+2+17+19+41+42)*1.00
69 (C)	ELU-19	Combinación lineal	ELU	(1+2+17+20+41+42)*1.00
70 (C)	ELU-20	Combinación lineal	ELU	(1+2)*1.35+(18+19+41+42)*1.50
71 (C)	ELU-21	Combinación lineal	ELU	(1+2)*1.35+(18+20+41+42)*1.50
72 (C)	ELU-22	Combinación lineal	ELU	(1+2+21+41)*1.00
73 (C)	ELU-23	Combinación lineal	ELU	(1+2)*1.35+(22+41)*1.50
74 (C)	ELU-24	Combinación lineal	ELU	(1+2)*1.35+(23+42)*1.50
75 (C)	ELU-25	Combinación lineal	ELU	(1+2)*1.35+24*1.50+42*1.00
76 (C)	ELU-26	Combinación lineal	ELU	(1+2+21+23+41+42)*1.00
77 (C)	ELU-27	Combinación lineal	ELU	(1+2+21+24+41+42)*1.00
78 (C)	ELU-28	Combinación lineal	ELU	(1+2)*1.35+(22+23+41+42)*1.50
79 (C)	ELU-29	Combinación lineal	ELU	(1+2)*1.35+(22+24+41+42)*1.50
80 (C)	ELU-30	Combinación lineal	ELU	(1+2+25+41)*1.00
81 (C)	ELU-31	Combinación lineal	ELU	(1+2)*1.35+(26+41)*1.50
82 (C)	ELU-32	Combinación lineal	ELU	(1+2)*1.35+(27+42)*1.50
83 (C)	ELU-33	Combinación lineal	ELU	(1+2)*1.35+28*1.50+42*1.00
84 (C)	ELU-34	Combinación lineal	ELU	(1+2+25+27+41+42)*1.00
85 (C)	ELU-35	Combinación lineal	ELU	(1+2+25+28+41+42)*1.00
86 (C)	ELU-36	Combinación lineal	ELU	(1+2)*1.35+(26+27+41+42)*1.50
87 (C)	ELU-37	Combinación lineal	ELU	(1+2)*1.35+(26+28+41+42)*1.50
88 (C)	ELU-38	Combinación lineal	ELU	(1+2+29+41)*1.00
89 (C)	ELU-39	Combinación lineal	ELU	(1+2)*1.35+(30+41)*1.50
90 (C)	ELU-40	Combinación lineal	ELU	(1+2)*1.35+(31+42)*1.50
91 (C)	ELU-41	Combinación lineal	ELU	(1+2)*1.35+32*1.50+42*1.00
92 (C)	ELU-42	Combinación lineal	ELU	(1+2+29+31+41+42)*1.00
93 (C)	ELU-43	Combinación lineal	ELU	(1+2+29+32+41+42)*1.00
94 (C)	ELU-44	Combinación lineal	ELU	(1+2)*1.35+(30+31+41+42)*1.50
95 (C)	ELU-45	Combinación lineal	ELU	(1+2)*1.35+(30+32+41+42)*1.50

3.2.2 CALIBRACIÓN EMPARRILLADO CON MEF

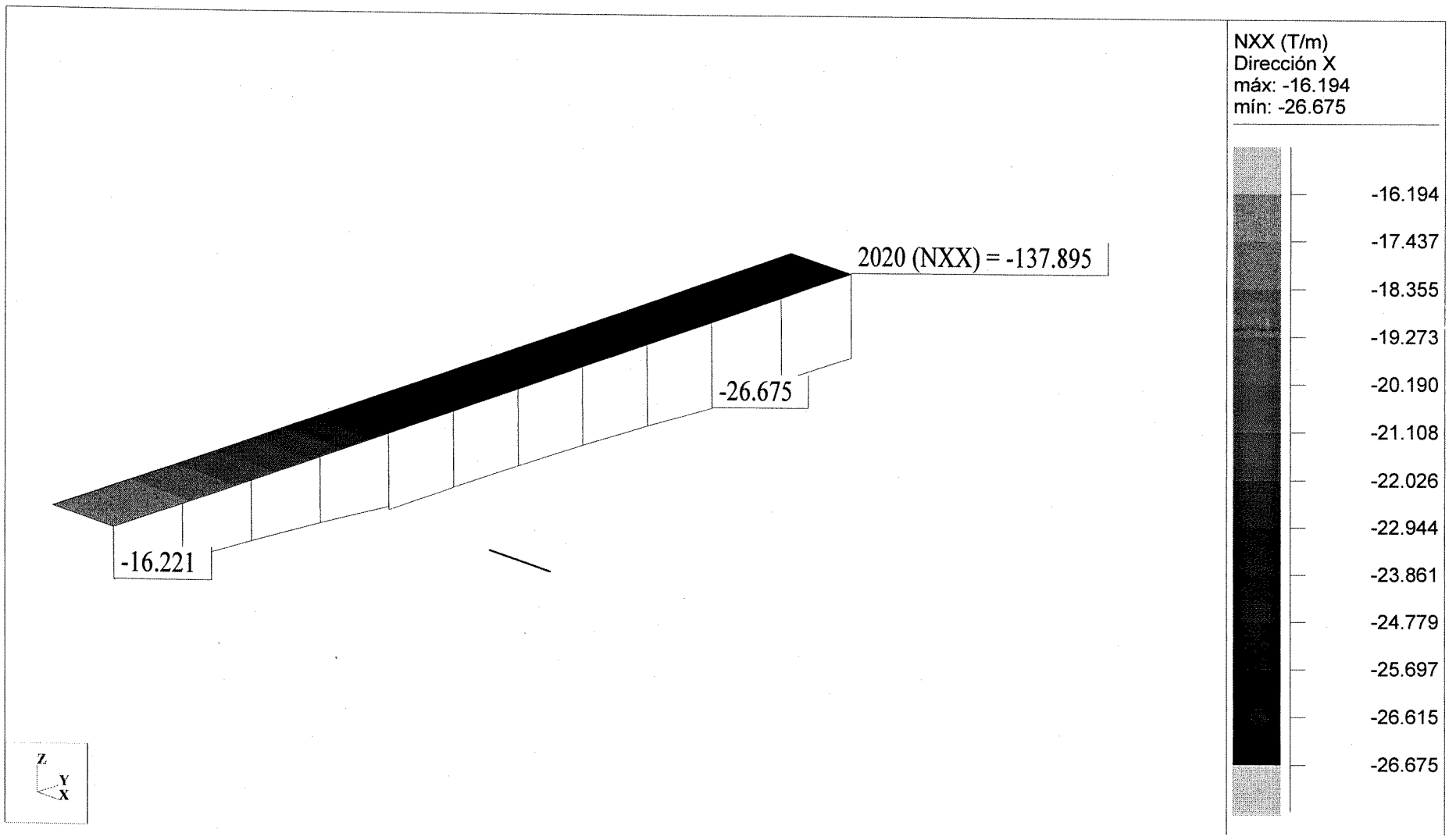
A continuación adjuntamos los resultados obtenidos del modelo de Elementos Finitos Mixto, así como las comprobaciones realizadas para llevar a cabo el calibrado del modelo de emparrillado plano.

Como se ha visto en la descripción del modelo de elementos finitos mixto, esta calibración se ha realizado únicamente considerando un tren de cargas: el tren SW2 definido en el Eurocódigo 1. Este tren de cargas se ha colocado en dos posiciones distintas. Los resultados obtenidos con este tren de carga se han considerado suficientemente significativos como para extrapolarlos al resto de cargas que se aplicarán al modelo.

En la calibración se han comparado los esfuerzos flectores obtenidos en el emparrillado y en el modelo de elementos finitos. Esta comparación se ha realizado en diferentes secciones de las dos vigas que componen el viaducto.

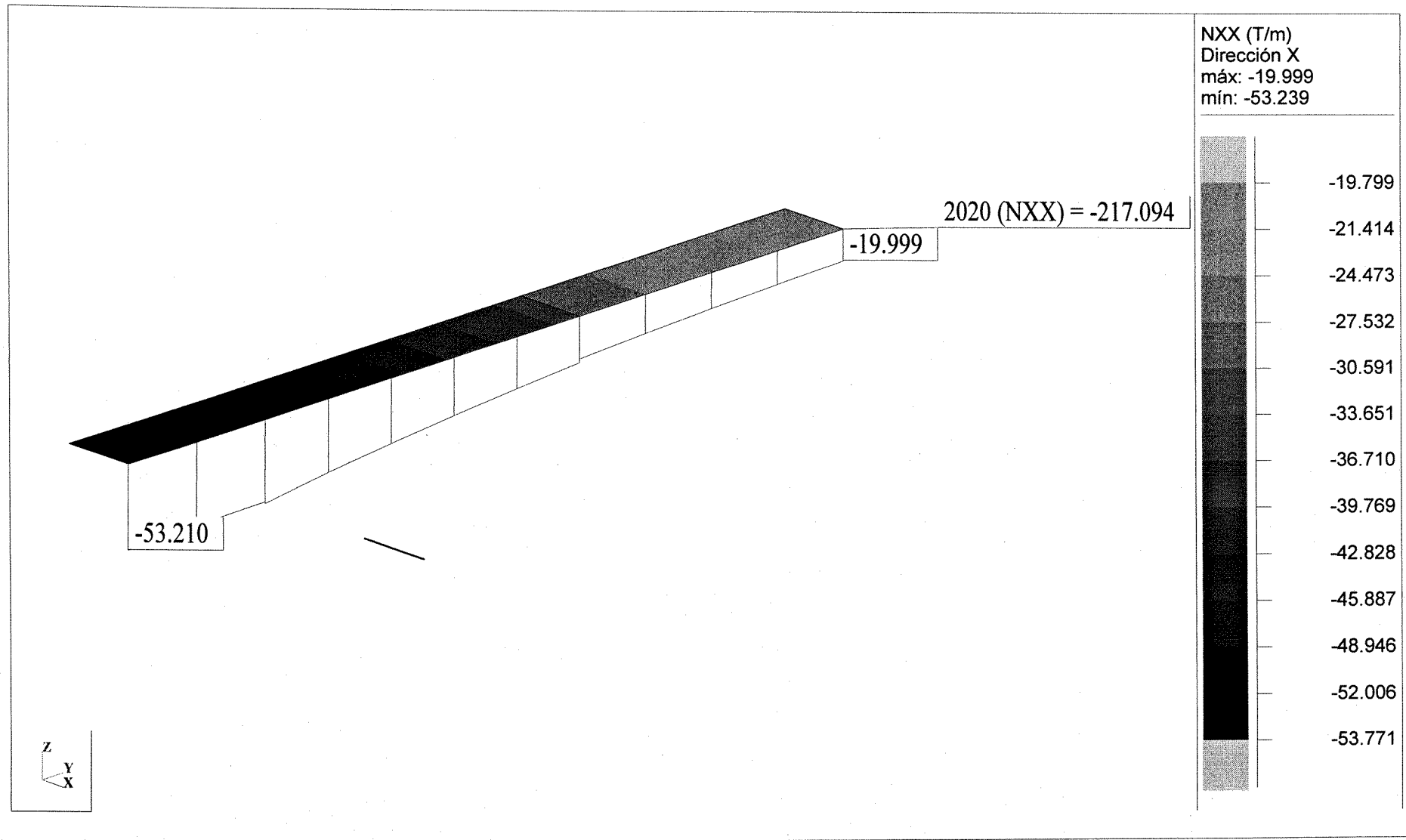
Para obtener la flexión en el modelo de elementos finitos, se han compuesto los esfuerzos axiles y de flexión en el elemento barra con la integral de los axiles en la losa. No se ha considerado la integral de la flexión en la losa al ser, ésta, ordenes de magnitud inferior a la flexión total de la sección.

Axiles en Losa - Barra Dcha - Caso 26

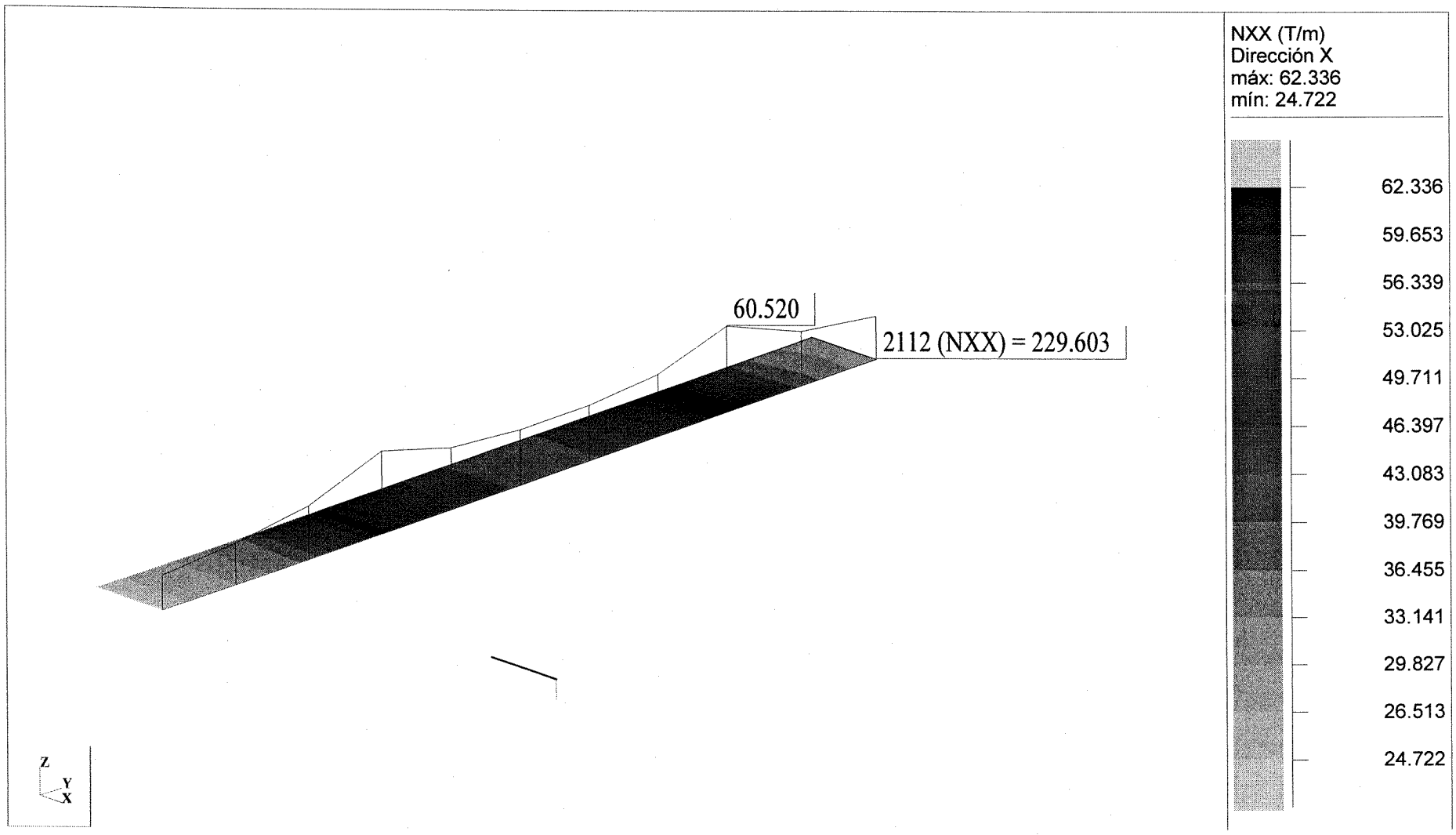


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Archivo : **Modelo MEF - Retr y Temp.rtd**

Axiles en Losa - Barra Izq - Caso 26

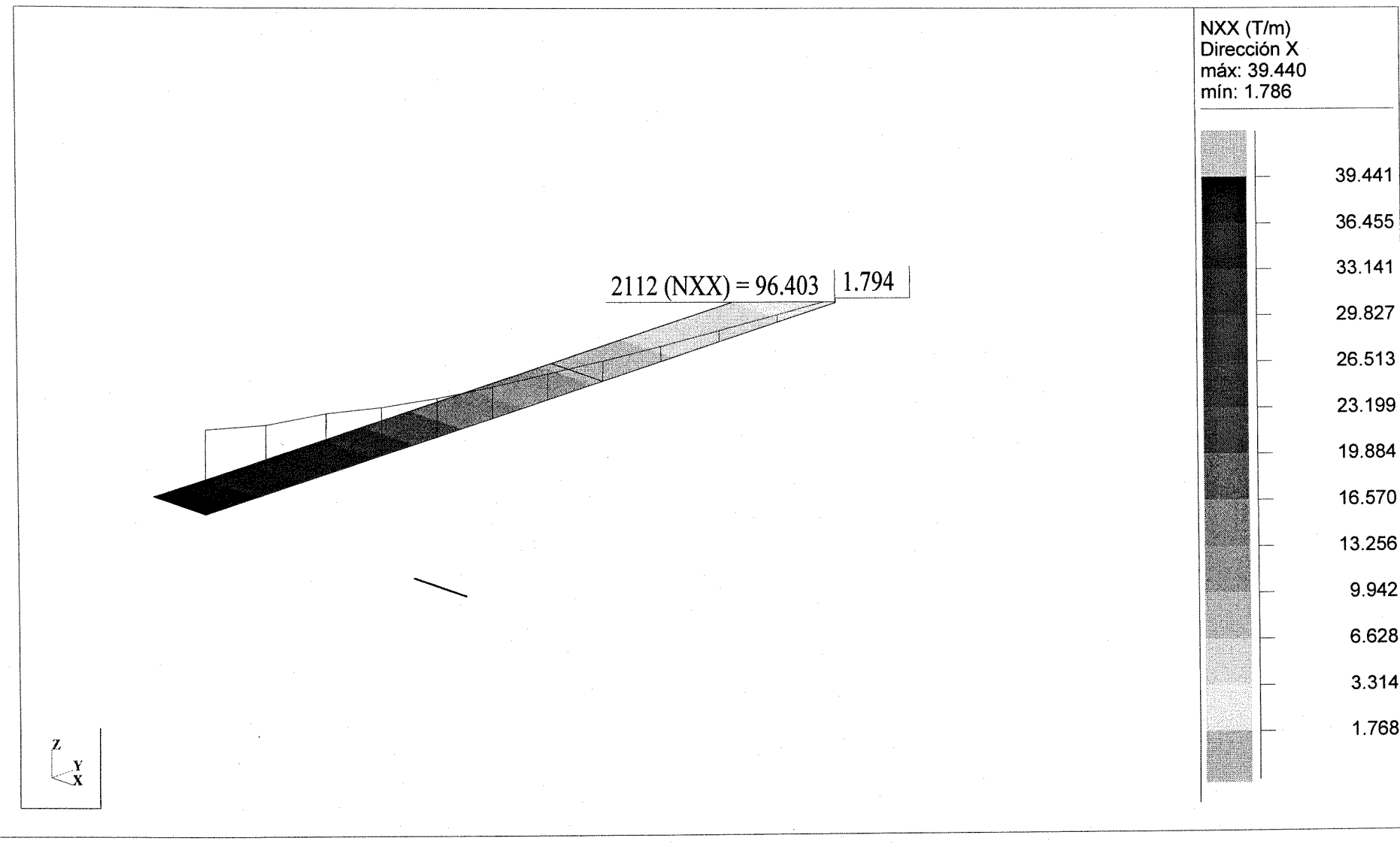


Axiles en Losa - Barra Dcha - Caso 28



ROBOT v 16.1.1
Autor : **PEDELTA**
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Archivo : **Modelo MEF - Retr y Temp.rtd**

Axiles en Losa - Barra Izq - Caso 28



Esfuerzos obtenidos en los Elementos Barra

Esfuerzos en Vigas MEF - Caso 26

Barra/Punto (m)/Caso	FX (T)	FY (T)	FZ (T)	MX (Tm)	MY (Tm)	MZ (Tm)
1029/ fin (1158)/ 26	-147.849	-38.333	7.615	-51.107	82.726	29.752
2020/ fin (887)/ 26	-291.602	-27.969	-2.264	-51.535	135.682	22.371

Esfuerzos en Vigas - Caso 28

Barra/Punto (m)/Caso	FX (T)	FY (T)	FZ (T)	MX (Tm)	MY (Tm)	MZ (Tm)
1121/ fin (3969)/ 28	56.839	-2.354	6.841	-2.264	-32.193	-17.794
2112/ fin (3699)/ 28	282.231	0.323	-162.010	2.877	-310.348	-34.633

Esfuerzos en Vigas Emparrillado - Caso 26

Barra/Punto (m)/Caso	FX (T)	FY (T)	FZ (T)	MX (Tm)	MY (Tm)	MZ (Tm)
114/ fin (650)/ 26	0.0	0.0	1.954	-56.966	212.270	0.0
510/ fin (325)/ 26	0.0	0.0	10.132	-31.381	647.953	0.0

Esfuerzos en Vigas Emparrillado - Caso 28

Barra/Punto (m)/Caso	FX (T)	FY (T)	FZ (T)	MX (Tm)	MY (Tm)	MZ (Tm)
161/ fin (360)/ 28	0	0	5.5	-4.468	-52.906	0
557/ fin (5)/ 28	0	0	-169.39	10.946	-748.25	0

Verificación Resultados Obtenidos con Emparrillado
Comparación Resultados Modelo Emparrillado con Modelo Elementos Finitos

Caso 26 - SW2 Dcha - Momento Positivo

Dist cdg Sección Completa a:		*MEF*	
Losa MEF	0.49 m	Flexión Viga Derecha	135.7 T·m
Viga MEF	-0.83 m	Axil Viga Derecha	-291.6 T
		Flexión Viga Izquierda	82.7 T·m
Emparrillado		Axil Viga Izquierda	-147.8 T
Flexión Viga Derecha	648.0 T·m		
Flexión Viga Izquierda	212.3 T·m	Axil Losa Derecha	222.4 T
		Axil Losa Izquierda	217.1 T

Las tracciónes serán negativas
Flexión negativa sobre apoyos

Resultados Caso 103

Flexión MEF Viga Derecha	486.4 T·m	Flexión MEF Sección	797.6 T·m
Axil MEF Viga Derecha	-69.2 T	Axil MEF Sección	0.0 T
Flexión MEF Viga Izquierda	311.2 T·m	Flexión EMP Sección	860.2 T·m
Axil MEF Viga Izquierda	69.2 T		

Verificación Resultados Obtenidos con Emparrillado
Comparación Resultados Modelo Emparrillado con Modelo Elementos Finitos

Caso 28 - SW2 - Momento Negativo

Dist cdg Sección Completa a:

Losa MEF	0.49 m
Viga MEF	-0.83 m

Emparrillado

Flexión Viga Derecha	-748.3 T·m
Flexión Viga Izquierda	-52.9 T·m

Las tracciónes serán negativas
Flexión negativa sobre apoyos

MEF

Flexión Viga Derecha	-310.3 T·m
Axil Viga Derecha	282.2 T
Flexión Viga Izquierda	-32.2 T·m
Axil Viga Izquierda	56.8 T
Axil Losa Derecha	-229.6 T
Axil Losa Izquierda	-96.4 T

Resultados Caso 203

Flexión MEF Viga Derecha	-656.8 T·m	Flexión MEF Sección	-783.1 T·m
Axil MEF Viga Derecha	52.6 T	Axil MEF Sección	13.1 T
Flexión MEF Viga Izquierda	-126.3 T·m	Flexión EMP Sección	-801.2 T·m
Axil MEF Viga Izquierda	-39.6 T		

Como se puede observar, tanto para momentos positivos como para momentos negativos, los resultados obtenidos con el emparrillado son mayores que los que se obtienen con el MEF.

Del mismo modo, también se puede ver que la proporción de esfuerzo que se lleva la viga derecha vuelve a ser algo mayor en el modelo de emparrillado que en el de elementos finitos

Por tanto, los resultados del emparrillado nos dejarán siempre del lado de la seguridad. Esto nos permite dar por válido el modelo de emparrillado presentado en el apartado 3.1