

ANEJO 7

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RESUMEN DE RESULTADOS EXPERIMENTALES

7.1- INTRODUCCIÓN

OBJETIVO:

Este Anejo tiene por objetivo presentar los valores numéricos de los distintos parámetros medidos durante los ensayos. El criterio de presentación de la información obtenida sigue el criterio de la presentación gráfica de resultados en cada uno de los ensayos presentados en el capítulo 4, es decir, cargas, medición de flechas, reacciones en apoyos, deformaciones seccionales, deformaciones en acero de pretensar, deformaciones en Arapree y deformaciones en tejido de fibra de carbono.

7.2 ENSAYO: VPE_1

C_carga

Carga Reacción VPE_1

CARGA kN	"LINEA 2"	"LINEA 2(9)"	"LINEA 2(10)"	"LINEA 1"	"LINEA 3"	"MOMENTO"	Linea 1 kN	Linea 2 kN	Linea 3 kN
0.010	0.000	0.000	0.000	0.000	0.000	-18.508	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	-18.509	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	-18.507	0.000	0.000	0.000
19.125	1.023	1.216	0.829	0.124	0.000	-15.880	1.240	10.225	0.000
37.180	2.362	2.490	2.233	0.166	-0.180	-13.476	1.660	23.615	-1.800
61.145	4.533	4.982	4.083	0.664	-0.360	-8.732	6.640	45.325	-3.600
81.900	6.594	7.296	5.892	1.120	-0.498	-4.529	11.200	65.940	-4.980
92.090	7.623	8.414	6.832	1.390	-0.598	-2.342	13.900	76.230	-5.980
117.800	10.300	11.120	9.480	2.200	-0.898	3.622	22.000	103.000	-8.980
140.370	12.828	13.630	12.026	3.072	-1.236	9.325	30.720	128.280	-12.360
160.935	15.256	16.120	14.391	4.004	-1.576	15.069	40.040	152.555	-15.760
183.345	17.987	18.984	16.989	5.208	-1.874	21.983	52.080	179.865	-18.740
180.430	17.668	18.610	16.726	5.292	-1.854	21.961	52.920	176.680	-18.540
207.195	21.149	22.024	20.273	6.516	-2.194	29.323	65.160	211.485	-21.940
228.570	24.075	24.592	23.558	7.594	-2.414	35.481	75.940	240.750	-24.140
226.275	23.807	24.258	23.356	7.636	-2.414	35.408	76.360	238.070	-24.140
257.635	27.864	27.612	28.116	8.716	-2.572	42.233	87.160	278.640	-25.720
292.815	32.528	31.574	33.482	11.144	-2.414	54.273	111.440	325.280	-24.140
285.265	31.522	30.632	32.411	11.330	-2.394	54.287	113.300	315.215	-23.940
315.620	35.424	34.476	36.372	13.840	-1.756	66.133	138.400	354.240	-17.560
330.975	37.256	36.006	38.505	15.564	-1.216	73.806	155.640	372.555	-12.160
326.085	36.569	35.320	37.818	15.666	-1.256	73.792	156.660	365.690	-12.560
337.415	37.900	36.536	39.263	16.496	-1.058	77.786	164.960	378.995	-10.580
356.415	39.662	37.868	41.456	19.216	-1.116	88.812	192.160	396.620	-11.160
350.820	38.903	37.320	40.486	19.568	-1.116	89.822	195.680	389.030	-11.160
350.135	38.809	37.222	40.395	19.568	-1.136	89.841	195.680	388.085	-11.360
374.830	41.946	39.182	44.710	21.290	-1.096	97.420	212.900	419.460	-10.960
381.850	42.841	39.830	45.852	22.576	-2.852	102.205	225.760	428.410	-28.520
394.890	44.401	40.614	48.187	24.236	-3.252	108.938	242.360	444.005	-32.520
391.240	43.998	40.182	47.813	24.112	-3.750	108.475	241.120	439.975	-37.500
374.775	43.867	39.870	47.863	22.224	-3.590	101.051	222.240	438.665	-35.900
270.270	36.300	34.712	37.888	12.326	-2.494	54.854	123.260	363.000	-24.940

270.270	36.300	34.712	37.888	12.326	-2.494	54.854	123.260	363.000	-24.940
234.305	32.106	30.710	33.502	8.882	-2.534	38.870	88.820	321.060	-25.340
158.585	22.411	21.748	23.073	2.884	-2.414	9.406	28.840	224.105	-24.140
102.725	14.262	14.768	13.755	0.312	-1.974	-6.374	3.120	142.615	-19.740
52.280	6.607	7.452	5.761	-1.142	-0.938	-17.457	-11.420	66.065	-9.380
-4.535	0.137	0.648	-0.374	-1.266	0.398	-24.328	-12.660	1.370	3.980
-3.400	0.259	0.862	-0.344	-1.266	4.408	-24.088	-12.660	2.590	44.080
63.935	6.479	7.884	5.073	-0.208	3.410	-12.130	-2.080	64.785	34.100
105.715	10.955	12.218	9.692	1.578	2.632	-0.571	15.780	109.550	26.320
141.370	15.112	15.964	14.260	3.590	1.834	10.975	35.900	151.120	18.340
178.685	19.727	20.160	19.293	6.038	0.818	23.887	60.380	197.265	8.180
220.715	24.979	24.964	24.993	9.380	-0.200	40.269	93.800	249.785	-2.000
264.240	29.932	29.494	30.369	13.592	-0.938	59.485	135.920	299.315	-9.380
307.365	34.596	33.810	35.382	17.866	-1.576	78.801	178.660	345.960	-15.760
353.880	39.801	38.458	41.143	22.078	-2.114	98.193	220.780	398.005	-21.140
397.680	45.140	43.164	47.115	26.810	-2.294	118.849	268.100	451.395	-22.940
405.420	46.144	43.576	48.712	28.512	-2.094	125.163	285.120	461.440	-20.940
398.760	45.294	42.674	47.914	28.118	-2.074	123.707	281.180	452.940	-20.740
384.010	49.581	41.202	57.959	27.660	-2.054	119.549	276.600	495.805	-20.540
382.165	49.205	41.026	57.383	27.598	-2.034	119.403	275.980	492.045	-20.340
294.525	39.963	32.456	47.469	18.198	-1.596	77.518	181.980	399.625	-15.960
204.560	29.376	23.946	34.806	8.654	-0.838	34.137	86.540	293.760	-8.380
157.820	23.457	19.474	27.439	4.690	-0.340	15.019	46.900	234.565	-3.400
102.995	16.214	13.944	18.484	1.764	0.658	-1.603	17.640	162.140	6.580
52.865	8.859	7.884	9.833	0.104	2.234	-13.054	1.040	88.585	22.340
-5.380	1.819	0.960	2.678	-0.416	4.468	-21.749	-4.160	18.190	44.680

C_carga2

Carga-Reacción VPE_2

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
-0.0100	0.0000	0.0000	0.0000	-0.0020	0.0000	0.0000	0.0000
-0.0100	0.0000	0.0000	0.0000	-0.0020	0.0000	0.0000	0.0000
52.2000	2.0960	4.5120	-0.9780	4.8100	20.9600	45.1200	-9.7800
74.3450	3.0520	6.9595	-1.4560	6.3135	30.5200	69.5950	-14.5600
102.2200	4.2140	10.0055	-2.0140	8.2385	42.1400	100.0550	-20.1400
126.8350	5.4380	12.7700	-2.6120	9.7710	54.3800	127.7000	-26.1200
156.9050	7.2220	16.1315	-3.4300	11.4575	72.2200	161.3150	-34.3000
177.9400	8.6540	18.5315	-4.0280	12.4305	86.5400	185.3150	-40.2800
201.6100	10.3140	21.2895	-4.6680	13.3865	103.1400	212.8950	-46.6800
228.0950	12.4520	24.4280	-5.0860	13.8250	124.5200	244.2800	-50.8600
252.9500	14.7140	27.2125	-5.3260	13.9895	147.1400	272.1250	-53.2600
277.3250	17.1620	29.7235	-5.6240	14.2035	171.6200	297.2350	-56.2400
304.9900	20.2320	32.5175	-5.6640	13.9125	202.3200	325.1750	-56.6400
325.8100	22.6200	34.7860	-5.6840	13.4400	226.2000	347.8600	-56.8400
349.4250	25.6700	37.3350	-5.7640	12.6440	256.7000	373.3500	-57.6400
362.7350	27.7240	38.8090	-6.7820	12.7960	277.2400	388.0900	-67.8200
378.5750	29.8620	40.5105	-6.8820	12.2245	298.6200	405.1050	-68.8200
389.0850	31.1260	41.5200	-6.9220	12.0930	311.2600	415.2000	-69.2200
395.8550	31.9780	42.2660	-7.0000	11.9270	319.7800	422.6600	-70.0000
408.4800	33.9280	43.8235	-7.3800	11.3245	339.2800	438.2350	-73.8000
415.6350	35.5880	44.7150	-7.6400	10.4640	355.8800	447.1500	-76.4000
0.0100	-0.0200	0.0050	0.0000	0.0170	-0.2000	0.0500	0.0000
53.5500	1.8680	4.9780	-0.9380	4.8020	18.6800	49.7800	-9.3800
104.4650	4.5860	11.0555	-1.8340	7.0855	45.8600	110.5550	-18.3400
144.5850	7.0360	15.7490	-2.5920	8.7240	70.3600	157.4900	-25.9200
193.8950	10.6880	21.1200	-3.4900	10.4610	106.8800	211.2000	-34.9000
239.0300	15.0040	25.7560	-4.1280	11.1740	150.0400	257.5600	-41.2800
286.2700	20.1280	30.5220	-4.7480	11.3520	201.2800	305.2200	-47.4800
330.9000	25.5240	35.2555	-5.2460	10.6465	255.2400	352.5550	-52.4600
378.9000	32.3300	40.6260	-5.4460	8.2700	323.3000	406.2600	-54.4600
416.0350	38.3900	45.5115	-5.4660	4.7715	383.9000	455.1150	-54.6600
409.1200	37.4980	44.7455	-5.4460	5.0265	374.9800	447.4550	-54.4600
410.6800	36.9780	46.1895	-5.3660	4.3345	369.7800	461.8950	-53.6600
409.4550	36.6060	46.7580	-5.3860	3.9130	366.0600	467.5800	-53.8600
400.7600	35.6920	47.8015	-5.3060	1.9645	356.9200	478.0150	-53.0600
331.6950	29.6740	40.8085	-4.8460	0.7025	296.7400	408.0850	-48.4600
277.5300	22.7640	35.0715	-4.5080	2.1785	227.6400	350.7150	-45.0800
229.3800	16.9120	29.7465	-4.3280	3.5455	169.1200	297.4650	-43.2800
184.6900	12.0780	24.7510	-4.0280	4.1370	120.7800	247.5100	-40.2800
141.0900	7.6780	19.6745	-3.6900	4.5555	76.7800	196.7450	-36.9000
97.1200	3.9220	14.2840	-3.1320	4.3500	39.2200	142.8400	-31.3200
52.1750	1.3920	8.1305	-2.2540	3.1665	13.9200	81.3050	-22.5400
0.0350	0.1040	1.0015	-0.8380	-0.2605	1.0400	10.0150	-8.3800
0.7800	0.1260	1.0465	-0.8580	-0.1585	1.2600	10.4650	-8.5800
99.8350	4.5040	11.4905	-2.2540	6.2265	45.0400	114.9050	-22.5400
190.4650	10.8740	21.2920	-3.7500	9.6770	108.7400	212.9200	-37.5000
284.8400	21.2700	30.7640	-4.9860	9.9200	212.7000	307.6400	-49.8600
332.1650	27.8060	35.6740	-5.3460	8.2990	278.0600	356.7400	-53.4600
358.9200	31.8320	38.4375	-5.4260	6.9405	318.3200	384.3750	-54.2600
269.2250	20.7720	32.3225	-4.9460	5.6965	207.7200	323.2250	-49.4600
220.2450	15.0660	27.2940	-4.6280	6.3170	150.6600	272.9400	-46.2800
179.7000	10.9360	22.7230	-4.3280	6.6090	109.3600	227.2300	-43.2800
139.3550	7.3680	18.2065	-3.8500	6.1465	73.6800	182.0650	-38.5000
101.7350	4.4620	13.9215	-3.1520	5.1155	44.6200	139.2150	-31.5200
48.8800	1.6600	7.2035	-1.9740	2.8865	16.6000	72.0350	-19.7400
-0.0550	0.2080	0.7535	-0.5780	-0.3945	2.0800	7.5350	-5.7800

Car_fle
Carga-Flecha cilcos 1 y 2 VPE_1

"LVDT 4"	"LVDT1"	"LVDT 2"	"LVDT 5 "	"LVDT 3"	"CAR, VCPAS"	Carga kN
0	0	0	0	0	0.0010	0.0100
0	0	0	0.0060	0	0	0.0000
0	0.0020	0	0.0060	0.0020	0	0.0000
0.4880	0.1800	0.5000	-0.0580	0.5420	1.9125	19.1250
0.9000	0.3320	0.9280	-0.1200	0.9980	3.7180	37.1800
1.5280	0.5920	1.5880	-0.1980	1.6920	6.1145	61.1450
2.1340	0.8380	2.2340	-0.2800	2.3620	8.1900	81.9000
2.4700	0.9720	2.5940	-0.3260	2.7360	9.2090	92.0900
3.4820	1.3600	3.7280	-0.4900	3.8940	11.7800	117.8000
4.5240	1.7620	4.9440	-0.6800	5.0920	14.0370	140.3700
5.4460	2.1300	6.0460	-0.8660	6.1360	16.0935	160.9350
6.4280	2.5320	7.2320	-1.0900	7.2280	18.3345	183.3450
6.4340	2.5440	7.2380	-1.0740	7.2320	18.0430	180.4300
8.0520	3.2320	9.4560	-1.6040	9.1040	20.7195	207.1950
10.0900	3.9820	11.9540	-2.4280	11.4320	22.8570	228.5700
10.1060	3.9880	11.9580	-2.4240	11.4400	22.6275	226.2750
12.8740	5.1020	15.5400	-3.5800	14.8800	25.7635	257.6350
17.7740	7.0340	21.5900	-6.3600	21.3500	29.2815	292.8150
17.8360	7.0480	21.6080	-6.5100	21.4200	28.5265	285.2650
21.9940	8.6320	26.1500	-8.9180	26.5240	31.5620	315.6200
24.3060	9.4500	28.6600	-10.3640	29.2160	33.0975	330.9750
24.3300	9.4520	28.6600	-10.4000	29.2260	32.6085	326.0850
25.4140	9.8340	29.8760	-11.0640	30.4760	33.7415	337.4150
31.6240	12.2340	37.9840	-12.4120	38.5200	35.6415	356.4150
31.6040	12.2320	37.9780	-12.3520	38.4800	35.0820	350.8200
31.5860	12.2300	37.9700	-12.3380	38.4660	35.0135	350.1350
37.4540	14.9480	46.8600	-14.9500	47.4280	37.4830	374.8300
41.6440	16.9000	53.7960	-16.9000	53.7100	38.1850	381.8500
48.0820	15.3100	64.2720	-25.2740	62.9320	39.4890	394.8900
47.9540	15.3080	64.2600	-24.2460	62.8320	39.1240	391.2400
45.9580	14.8040	62.4680	-19.0940	60.7300	37.4775	374.7750
35.2320	11.0280	49.8240	-13.8760	47.3500	27.0270	270.2700
31.3380	9.5200	45.2140	-12.3900	42.0380	23.4305	234.3050
23.5120	7.9200	35.9300	-9.1260	31.6620	15.8585	158.5850
18.6500	7.9000	29.0920	-6.6920	25.3140	10.2725	102.7250
14.2640	6.7040	22.3980	-4.5580	18.8780	5.2280	52.2800
8.7500	4.0100	13.6560	-2.7800	11.0580	-0.4535	-4.5350
8.0600	3.7260	12.7160	-2.2840	10.2720	-0.3400	-3.4000
10.2160	4.6480	15.5080	-2.7660	12.7900	6.3935	63.9350
12.0520	5.4320	17.9660	-3.4040	15.1620	10.5715	105.7150
14.1020	6.3340	20.7340	-4.2600	17.9720	14.1370	141.3700
17.0220	7.6480	24.5700	-5.6640	22.0740	17.8685	178.6850
21.6420	9.5220	30.2460	-7.6700	27.9920	22.0715	220.7150
27.6960	11.7020	37.2620	-9.7380	35.2580	26.4240	264.2400
33.4280	13.9420	44.2160	-11.9200	43.0680	30.7365	307.3650
40.5420	16.7640	53.8940	-14.9060	53.0220	35.3880	353.8800
53.2260	17.6180	73.4460	-18.6720	70.6200	39.7680	397.6800
59.4380	20.0660	78.8540	-19.6120	79.3040	40.5420	405.4200
59.2800	20.0640	78.8240	-19.4280	79.1800	39.8760	398.7600
64.9860	22.7280	88.3780	-20.0880	88.0780	38.4010	384.0100
64.9140	22.7220	88.3520	-20.0320	88.0080	38.2165	382.1650
54.2120	19.5640	76.8620	-16.4360	75.3720	29.4525	294.5250
41.9200	15.2440	61.9320	-12.9900	60.1600	20.4560	204.5600
36.6420	13.0760	54.7180	-11.1840	52.7640	15.7820	157.8200
29.8180	9.9720	48.0240	-8.3580	42.5160	10.2995	102.9950
22.2060	7.6860	36.5000	-5.2480	31.3360	5.2865	52.8650
15.4600	7.4220	25.0560	-3.2340	21.4240	-0.5380	-5.3800

Car_fle2
Carga-Flecha VPE_2

"CAR. MED."	"LVDT 7"	"LVDT 8"	"LVDT 9"	"LVDT 10"	"LVDT 11"
0.000	0.002	-0.002	0.000	0.000	0.002
-0.001	0.000	-0.002	0.000	0.000	0.002
-0.001	0.000	-0.002	-0.002	-0.002	0.006
5.220	0.674	2.100	2.114	1.638	0.000
7.435	1.056	3.304	3.306	2.520	-0.300
10.222	1.664	5.188	5.218	3.908	-0.856
12.684	2.298	7.128	7.232	5.376	-1.480
15.691	3.212	10.042	10.180	7.534	-2.436
17.794	3.942	12.520	12.612	9.352	-3.260
20.161	4.880	15.672	15.780	11.772	-4.390
22.810	6.098	19.604	20.046	15.044	-5.850
25.295	7.410	23.664	24.738	18.578	-7.218
27.733	8.852	28.004	29.800	22.414	-8.396
30.499	10.692	33.728	36.126	27.196	-9.842
32.581	12.014	38.184	40.746	30.720	-11.038
34.943	13.838	44.828	47.110	35.686	-12.532
36.274	15.266	49.826	51.860	39.404	-13.372
37.858	17.162	56.900	58.424	44.386	-14.528
38.909	18.612	62.252	63.392	47.996	-15.400
39.586	19.796	66.630	67.538	50.868	-15.982
40.848	22.646	77.506	75.706	57.938	-17.446
41.564	26.128	85.966	80.176	63.904	-18.652
0.001	0.374	-6.514	-6.492	-4.400	-6.446
5.355	1.002	-3.682	-3.578	-2.278	-7.168
10.447	2.474	1.206	1.090	1.154	-8.540
14.459	4.008	6.340	6.228	4.916	-10.034
19.390	6.484	14.288	14.856	11.072	-12.306
23.903	8.064	23.808	25.042	18.666	-14.624
28.627	11.386	35.950	37.028	28.148	-17.074
33.090	15.326	49.464	49.914	38.048	-19.662
37.890	20.452	66.260	63.788	50.008	-22.704
41.604	24.220	77.180	69.436	60.666	-25.504
40.912	24.222	59.602	42.764	60.594	-25.432
41.068	24.278	59.594	42.584	63.896	-26.368
40.946	24.294	59.586	42.574	66.086	-26.884
40.076	24.472	59.580	42.448	73.528	-28.544
33.170	23.010	59.544	42.218	63.082	-24.380
27.753	20.218	59.452	41.870	53.772	-21.798
22.938	17.358	59.426	41.754	45.084	-19.668
18.469	14.702	59.388	41.714	37.290	-17.666
14.109	11.322	59.374	41.698	28.006	-15.464
9.712	7.166	59.368	41.700	17.544	-12.644
5.218	3.364	59.358	41.698	8.532	-9.652
0.004	0.060	59.358	41.698	-0.420	-7.270
0.078	0.058	-4.376	-1.910	-0.700	-7.236
9.984	2.456	3.742	6.446	5.800	-9.514
19.047	6.446	18.150	21.888	16.984	-13.738
28.484	13.740	43.998	47.338	37.114	-19.024
33.217	18.518	59.740	61.764	48.994	-21.978
35.892	21.076	68.944	66.702	55.732	-23.678
26.923	17.128	55.654	58.134	43.866	-19.946
22.025	14.196	46.270	47.730	35.270	-17.922
17.970	11.548	37.532	38.838	28.072	-16.094
13.936	8.856	28.258	29.644	20.914	-14.156
10.174	6.006	18.154	19.802	14.124	-12.022
4.888	2.384	4.910	6.722	5.414	-8.878
-0.006	-0.286	-4.790	-2.402	-1.062	-7.122

Car_ten
Carga-Tensión Lado Visto VPE_1

"CARGA TOT"	"ACTIVO V"	"TENS. 1V"	"TENS. 2V"	"TENS. 3V"	"TENS. 4V"	"PASIVO V."	"ACTIVO O.""
0.0010	10856.4300	11480.7500	12251.4600	12363.5700	11585.7100	10973.5700	10243.5700
0.0000	10856.4300	11483.7600	12250.7100	12363.5700	11585.7100	10974.2900	10242.8600
0.0000	10856.4300	11483.0100	12253.7200	12368.0800	11588.7100	10972.1400	10242.8600
1.9125	10863.5700	11534.8400	12270.2400	12365.8200	11578.9500	10971.4300	10252.1400
3.7180	10870.7100	11582.1600	12283.7600	12363.5700	11585.7100	10970.7100	10262.1400
6.1145	10885.7100	11652.7700	12300.2800	12358.3100	11553.4100	10968.5700	10280.7100
8.1900	10903.5700	11730.8900	12317.5600	12354.5600	11541.3900	10967.8600	10305.0000
9.2090	10916.4300	11778.2200	12326.5800	12353.0500	11535.3800	10966.4300	10327.8600
11.7800	11019.2900	11887.8900	12351.3700	12347.8000	11513.6000	10962.8600	10454.2900
14.0370	11163.5700	12021.5900	12373.1500	12340.2900	11488.8100	10960.0000	10594.2900
16.0935	11285.7100	12150.0400	12395.6900	12335.7800	11467.0300	10956.4300	10716.4300
18.3345	11410.7100	12289.0100	12422.7300	12331.2700	11442.2400	10952.1400	10842.1400
18.0430	11410.7100	12282.2500	12418.2200	12334.2800	11446.0000	10951.4300	10845.0000
20.7195	11654.2900	12563.9400	12457.2800	12327.5100	11406.1800	10945.7100	11093.5700
22.8570	11952.1400	12877.1700	12548.9200	12334.2800	11356.6100	10939.2900	11387.8600
22.6275	11953.5700	12868.1600	12560.1900	12336.5300	11360.3600	10937.1400	11386.4300
25.7635	12365.0000	13313.6000	12733.7100	12244.8800	11375.3900	10928.5700	11806.4300
29.2815	12971.4300	13969.0000	13327.1300	12264.4100	11357.3600	10917.1400	12422.1400
28.5265	12966.4300	13955.4800	13338.4000	12268.1700	11361.8600	10911.4300	12413.5700
31.5620	13411.4300	14346.0800	13664.4100	12540.1000	11510.5900	10902.8600	12919.2900
33.0975	13617.1400	14530.6500	13777.4200	12645.2600	11605.9900	10897.8600	13020.0000
32.6085	13610.7100	14506.6100	13780.2900	12649.7600	11606.7400	10888.5700	13000.0000
33.7415	13697.8600	14638.8100	13839.0600	12690.3300	11650.3100	10885.0000	13129.2900
35.6415	14187.8600	15188.5900	14336.6300	13198.8700	12160.3600	10997.8600	13771.4300
35.0820	14167.8600	15154.7900	14319.3500	13209.3900	12166.3600	11017.1400	13745.7100
35.0135	14165.7200	15150.2800	14314.8500	13207.1300	12164.8600	11019.2900	13745.0000
37.4830	14827.8600	15714.4400	14842.8300	13629.2800	12590.7700	11405.0000	14416.4300
38.1850	15150.7100	15910.0700	15054.2500	13843.1400	12856.6800	11733.5700	14851.4300
39.4890	15699.2900	16399.3800	15510.4200	14209.2700	13248.7900	12125.7100	15357.8600
39.1240	15653.5700	16391.8600	15490.1400	14240.7600	13262.3100	12127.8600	15295.0000
37.4775	15586.4300	16058.3500	15354.1700	14261.0700	13290.8600	12145.7100	15222.1400
27.0270	14525.0000	14017.4300	14410.7100	13639.8600	13338.1900	12197.8600	14159.2900
23.4305	13927.8600	14546.4700	14409.9600	13624.8300	13349.4500	12207.8600	13559.2900
15.8585	12860.0000	12972.0200	13258.4200	12840.6200	13374.2400	12245.0000	12356.4300
10.2725	12220.0000	12377.8500	12621.4300	12658.8300	13383.2500	12273.5700	11765.0000
5.2280	11594.2900	11856.5400	12076.8300	12588.2300	13148.1400	12279.2900	11166.4300
-0.4535	11015.0000	11439.6400	11641.1600	12157.8000	12678.6600	12276.4300	10585.7100
-0.3400	10952.1400	11403.5900	11584.0700	12120.2500	12646.3600	12279.2900	10528.5700
6.3935	11040.0000	11354.3500	11869.4700	12104.4700	12593.0200	12274.2900	10627.8600
10.5715	11167.8600	11747.9600	11949.1000	12101.4700	12551.7100	12268.5700	10760.0000
14.1370	11372.1400	12202.4100	12056.5100	12220.0400	12513.4000	12263.5700	10980.7100
17.8685	11736.4300	12689.9200	12410.3200	12277.8800	12463.8200	12257.1400	11413.5700
22.0715	12237.8600	13355.4600	13064.5800	12518.2600	12421.7600	12249.2900	11989.2900
26.4240	12966.4300	14043.6400	13758.4900	12995.2400	12398.4700	12242.8600	12687.8600
30.7365	13725.0000	14749.2800	14433.1000	13358.0600	12444.2900	12237.8600	13409.2900
35.3880	14577.8600	15378.9900	15083.9300	13924.8800	13142.1300	12245.7100	14162.1400
39.7680	15729.2900	16208.3200	16012.4600	14944.2300	14277.7800	13217.1400	15273.5700
40.5420	16102.8600	16635.6200	16484.5000	15443.7200	14807.5400	13729.2900	15657.1400
39.8760	16035.0000	16614.5900	16437.1800	15439.9700	14816.6000	13709.2900	15585.0000
38.4010	16374.2800	17334.5900	16928.3800	15851.9100	15255.6700	14114.2900	15940.0000
38.2165	16317.8600	17321.8200	16915.6000	15845.1500	15248.9100	14096.4300	15885.7100
29.4525	15326.4300	15650.4800	15853.4500	14989.5700	15363.3700	14105.0000	14919.2900
20.4560	13890.7100	14269.0800	14408.9600	14373.6200	14784.2200	14100.7100	13527.8600
15.7820	13214.2900	13621.5800	13738.1700	14148.2700	14513.8000	14091.4300	12880.0000
10.2995	12500.0000	13069.4700	13167.2900	13550.3400	13903.1000	13625.7100	12287.8600
5.2865	11819.2900	12597.7400	12653.4800	12917.1100	13255.5900	12999.2900	11606.4300
-0.5380	11088.5700	12090.7000	12151.7100	12418.3300	12747.0500	12512.1400	10885.0000

Carga-Tensión lado oculto VPE_1

"PASIVO V."	"ACTIVO O."	"TENS. 1O"	"TENS. 2O"	"TENS. 3O"	"TENS. 4O"	"PASIVO O."	"INCR. 0V"
10973.5700	10243.5700	10880.6000	11591.4300	12278.5700	11545.0000	10973.5700	-0.0003
10974.2900	10242.8600	10884.3600	11595.9400	12283.0800	11548.0000	10974.3000	-0.0003
10972.1400	10242.8600	10885.1100	11596.6900	12283.0800	11548.7600	10972.1700	-0.0003
10971.4300	10252.1400	10939.1900	11613.9600	12280.8200	11538.9900	10971.4400	7.1403
10970.7100	10262.1400	10986.5100	11628.2400	12278.5700	11530.7300	10970.7000	14.2800
10968.5700	10280.7100	11060.8800	11648.5200	12271.8100	11514.9600	10968.5700	29.2800
10967.8600	10305.0000	11144.2600	11668.8000	12267.3000	11503.6900	10967.8300	47.1403
10966.4300	10327.8600	11181.8200	11680.0700	12266.5500	11496.9300	10966.4300	59.9997
10962.8600	10454.2900	11304.2600	11708.6100	12262.0500	11476.6400	10962.8300	162.8600
10960.0000	10594.2900	11445.4800	11736.4100	12255.2900	11454.1100	10960.0200	307.1403
10956.4300	10716.4300	11576.1800	11761.9500	12250.7800	11433.0800	10956.4200	429.2800
10952.1400	10842.1400	11716.6500	11793.5000	12247.7700	11410.5400	10952.1500	554.2800
10951.4300	10845.0000	11709.8900	11795.7500	12250.0300	11413.5500	10951.4200	554.2800
10945.7100	11093.5700	11990.8200	11837.8100	12255.2900	11372.9800	10945.7400	797.8600
10939.2900	11387.8600	12295.0500	11955.0000	12256.7900	11321.9000	10939.2700	1095.7100
10937.1400	11386.4300	12288.2900	11961.7600	12259.0400	11325.6600	10937.1300	1097.1400
10928.5700	11806.4300	12723.9600	12124.7600	12286.8300	11304.6300	10928.5900	1508.5700
10917.1400	12422.1400	13423.3000	12734.7100	12408.5200	11243.0300	10917.1100	2115.0000
10911.4300	12413.5700	13424.0500	12750.4800	12410.7800	11254.3000	10911.4400	2110.0000
10902.8600	12919.2900	13931.0800	13289.8200	12527.9600	11291.8600	10902.8300	2555.0000
10897.8600	13020.0000	14075.9100	13343.9000	12596.3100	11379.7400	10897.8300	2760.7100
10888.5700	13000.0000	14045.1100	13346.1500	12600.0700	11381.2400	10888.5500	2754.2800
10885.0000	13129.2900	14191.1500	13410.0000	12640.6300	11424.8100	10885.0100	2841.4300
10997.8600	13771.4300	14804.6100	13967.1600	13183.7200	11937.8600	10997.8600	3331.4300
11017.1400	13745.7100	14770.0600	13950.6400	13186.7300	11945.3700	11017.1500	3311.4300
11019.2900	13745.0000	14764.8000	13944.6300	13185.2300	11945.3700	11019.2900	3309.2900
11405.0000	14416.4300	15324.2300	14462.6700	13630.6700	12361.5200	11405.0300	3971.4300
11733.5700	14851.4300	15629.7600	14802.1600	13935.2300	12659.7300	11733.5800	4294.2800
12125.7100	15357.8600	16081.5000	15270.3300	14325.4700	13054.0900	12125.7300	4842.8600
12127.8600	15295.0000	16064.2200	15253.8000	14345.8200	13064.6100	12127.8700	4797.1400
12145.7100	15222.1400	15735.9600	15140.3800	14372.4700	13089.4000	12145.6900	4730.0000
12197.8600	14159.2900	13775.4200	14024.9000	13848.1600	13139.7300	12197.8800	3668.5700
12207.8600	13559.2900	14193.3200	14024.9000	13806.0900	13150.9900	12207.8900	3071.4300
12245.0000	12356.4300	12517.4700	13103.9700	13107.5100	13178.7900	12245.0000	2003.5700
12273.5700	11765.0000	11920.2900	12391.8600	12911.4500	13195.3100	12273.5600	1363.5700
12279.2900	11166.4300	11472.6000	11887.0800	12711.6500	12969.9700	12279.3000	737.8600
12276.4300	10585.7100	11075.9900	11451.4000	12286.4900	12520.7700	12276.4300	158.5700
12279.2900	10528.5700	11037.6800	11386.8000	12254.1800	12487.7200	12279.3000	95.7097
12274.2900	10627.8600	11059.3000	11675.1200	12249.6800	12438.8900	12274.2900	183.5700
12268.5700	10760.0000	11439.3900	11757.0000	12378.0700	12398.3300	12268.5500	311.4304
12263.5700	10980.7100	11875.8200	11870.4300	12396.8500	12358.5100	12263.5500	515.7097
12257.1400	11413.5700	12426.4200	12083.0100	12456.1900	12307.4400	12257.1400	879.9997
12249.2900	11989.2900	13019.8400	12737.2700	12693.5600	12260.1100	12249.2700	1381.4300
12242.8600	12687.8600	13746.2200	13483.9300	13141.2600	12236.0700	12242.8600	2110.0000
12237.8600	13409.2900	14461.4800	14206.1400	13526.6100	12254.1000	12237.8500	2868.5700
12245.7100	14162.1400	15055.4900	14843.3300	14110.3700	12952.6900	12245.7300	3721.4300
13217.1400	15273.5700	15923.5600	15837.7300	15094.2600	14057.0400	13217.1600	4872.8600
13729.2900	15657.1400	16357.9200	16314.5800	15552.3300	14576.1700	13729.3100	5246.4300
13709.2900	15585.0000	16329.3800	16252.2300	15555.5700	14587.3800	13709.2900	5178.5700
14114.2900	15940.0000	16984.7900	16708.2500	15923.7600	15016.4400	14114.2600	5517.8500
14096.4300	15885.7100	16969.7600	16690.2200	15917.7500	15011.1800	14096.4400	5461.4300
14105.0000	14919.2900	15243.5800	15682.1600	15104.9900	15146.2400	14104.9800	4470.0000
14100.7100	13527.8600	13883.9700	14152.7800	14485.2800	14612.9100	14100.7100	3034.2800
14091.4300	12880.0000	13324.3500	13560.1200	14177.3000	14325.2100	14091.4300	2357.8600
13625.7100	12287.8600	12880.4100	13059.0900	13574.8600	13711.5100	13625.7300	1643.5700
12999.2900	11606.4300	12368.8700	12497.9600	12979.1900	13093.3000	12999.2700	962.8600
12512.1400	10885.0000	11838.5500	11999.9400	12491.6800	12604.2900	12512.1500	232.1403

Car_ten2
Carga-tensión VPE_2

"CAR. MED."	"ACTIVO O."	"TENS. 1O"	"TENS. 2O"	"BLOQ. O."	"TENS. 3O"	"TENS. 4O"
0.0000	12357.1400	12535.1800	12893.4600	1392.8570	11429.7600	11112.6900
-0.0010	12357.1400	12535.1800	12893.4600	1392.8570	11429.7600	11112.6900
-0.0010	12357.1400	12535.1800	12893.4600	1392.8570	11429.7600	11112.6900
5.2200	12428.5700	12811.0800	12932.1300	1428.5720	11411.9100	11102.2800
7.4345	12500.0000	12990.3000	12978.9800	1428.5720	11400.7600	11097.8200
10.2220	12714.2900	13203.7300	13030.3000	1464.2860	11394.0600	11074.7600
12.6835	12928.5700	13443.1800	13103.9200	1500.0000	11393.3200	11083.6900
15.6905	13285.7100	13738.4200	13218.4400	1535.7140	11400.7600	11074.7600
17.7940	13571.4300	13986.1200	13369.4000	1571.4280	11423.8100	11065.8400
20.1610	13857.1400	14258.7000	14003.9700	1642.8570	11445.3800	11059.8900
22.8095	14214.2900	14594.3600	14427.4400	1928.5720	11507.1000	11100.7900
25.2950	14500.0000	14950.5900	14717.1300	2142.8570	11657.3200	11197.4700
27.7325	14857.1400	15327.3700	14791.2300	2357.1430	11794.1500	11316.4500
30.4990	15214.2900	15689.2600	14998.3900	2500.0000	11956.2700	11512.0300
32.5810	15500.0000	16028.9700	15401.5800	2678.5720	12074.5100	11625.0700
34.9425	15857.1400	16451.2900	15771.0400	2892.8570	12236.6200	11799.8300
36.2735	16071.4300	16738.9400	16027.9900	2964.2860	12400.2300	11954.5100
37.8575	16357.1400	17042.7300	16339.9800	3071.4280	12571.2700	12147.8600
38.9085	16571.4300	17191.8400	16535.5100	3107.1430	12695.4600	12277.2500
39.5855	16785.7100	17224.9100	16662.4200	3142.8570	12793.6200	12391.0300
40.8480	17071.4300	17503.8800	16910.9000	3142.8570	13036.0500	12656.5200
41.5635	17214.2900	17784.7800	17054.2900	3071.4280	13236.1000	12878.8700
0.0010	10142.8600	11355.1400	10504.9200	-35.7143	10742.6200	10909.6700
5.3550	10142.8600	17578.0500	13406.5100	-35.7143	10747.8300	10855.3900
10.4465	10571.4300	17693.9700	13565.2500	-35.7143	10787.2400	10818.9500
14.4585	11000.0000	17784.4800	15026.4100	0.0000	10902.5100	10793.6600
19.3895	11785.7100	17933.9800	13723.1800	-35.7143	11293.6700	10787.7100
23.9030	12571.4300	18055.4800	15800.1400	250.0000	11544.2800	11209.3700
28.6270	13571.4300	18117.0000	16143.2300	785.7145	12180.1100	11681.5900
33.0900	14642.8600	18117.0000	16243.7700	1464.2860	12583.9100	12125.5500
37.8900	16000.0000	18117.0000	16546.9400	2321.4280	13053.9000	12643.8800
41.6035	17071.4300	18117.0000	16600.7700	2964.2860	13464.4000	13093.0400
40.9120	17000.0000	18117.0000	16559.7500	2928.5720	13441.3400	13105.6900
41.0680	17071.4300	18117.0000	16704.0700	2928.5720	13570.0000	13219.4600
40.9455	17142.8600	18117.0000	16766.7700	2928.5720	13643.6200	13298.2900
40.0760	17142.8600	18117.0000	17159.2400	2892.8570	13822.6100	13571.4400
33.1695	17071.4300	16722.6500	16031.1200	3071.4280	11912.1600	13541.8300
27.7530	16071.4300	15667.4000	15356.6200	3071.4280	12698.0400	13158.1000
22.9380	15000.0000	14658.2600	14836.8000	3035.7150	12428.0900	12770.6500
18.4690	14214.2900	13908.6600	13951.8600	2607.1430	12164.8400	12471.7100
14.1090	13214.2900	12979.8300	13087.7300	1857.1430	11839.8600	12115.5000
9.7120	11928.5700	11816.0100	13388.2200	928.5715	11450.9300	11722.8400
5.2175	10785.7100	10800.1800	12339.6600	178.5715	11162.3900	11342.8400
0.0035	9785.7140	10173.2800	11854.8000	-35.7143	10723.6400	10901.1100
0.0780	9714.2860	10143.5300	11840.9700	-35.7143	10773.0800	10875.0800
9.9835	10357.1400	18102.0200	15008.6900	-35.7143	10882.0800	10807.4100
19.0465	11785.7100	18117.0000	16223.3200	-35.7143	11511.2100	10834.9200
28.4840	13785.7100	18117.0000	16660.7600	821.4285	12522.5800	11972.7400
33.2165	15071.4300	18117.0000	16100.0200	1571.4280	13025.2900	12514.8700
35.8920	15857.1400	18117.0000	17235.0900	2000.0000	13316.8000	12816.7900
26.9225	15000.0000	16102.4400	16494.4100	2250.0000	12395.4100	12732.0100
22.0245	14071.4300	15020.4200	15502.3800	2285.7150	12069.6900	12341.6000
17.9700	13285.7100	14297.5900	14791.4400	2071.4280	11859.2400	12039.6700
13.9355	12428.5700	13551.7000	15114.5500	1464.2860	11634.6500	11774.9300
10.1735	11571.4300	12758.9700	13778.9400	785.7145	11434.6100	11531.0100
4.8880	10500.0000	11778.0800	13970.3700	71.4286	11148.3000	11200.8300
-0.0055	9714.2860	11383.9500	13572.5200	-35.7143	10880.5900	10901.1400

"PASIVO O."	"ACTIVO V."	"TENS. 1V"	"TENS. 2V"	"BLOQ. V."	"TENS. 3V"	"TENS. 4V"
11000.0000	12857.1400	12997.6700	13353.9500	1571.4280	11129.3100	10832.8500
11000.0000	12857.1400	12996.9200	13353.9500	1571.4280	11129.3100	10832.8500
11000.0000	12857.1400	12981.3100	13358.4100	1571.4280	11130.8000	10834.3300
11000.0000	12928.5700	13113.6800	13447.6500	1571.4280	11114.4400	10794.9200
11000.0000	12928.5700	13293.6400	13469.2200	1571.4280	11111.4700	10772.6100
11000.0000	13214.2900	13482.5300	13504.9100	1607.1430	11110.7200	10743.6100
11000.0000	13428.5700	13668.1600	13559.9400	1607.1430	11120.3900	10718.3200
11000.0000	13714.2900	13961.9000	13664.6800	1714.2860	11157.5700	10684.1200
11000.0000	13928.5700	14134.2000	13839.7500	1892.8570	11208.1400	10658.0900
11000.0000	14214.2900	14387.5700	14086.3800	2035.7140	11304.0700	10644.7000
11000.0000	14500.0000	14719.6500	14413.1300	2285.7150	11372.4900	10751.7900
11000.0000	14785.7100	15073.4000	14743.2900	2428.5720	11539.0700	10922.0900
11071.4300	15142.8600	15439.5400	15073.7000	2571.4280	11677.3900	11079.7400
11285.7100	15428.5700	15852.0300	15446.1100	2678.5720	11865.5300	11275.3200
11428.5700	15714.2900	16141.2700	15708.7600	2785.7150	11990.4700	11384.6400
11571.4300	16000.0000	16553.7200	16069.9700	2928.5720	12157.7900	11552.7100
11714.2900	16214.2900	16806.5200	16286.3500	2964.2860	12279.7500	11685.8200
11928.5700	16428.5700	17086.1900	16574.7000	3035.7150	12466.4100	11877.6800
12000.0000	16571.4300	17197.9700	16737.8500	3035.7150	12625.5500	12008.5700
12142.8600	16785.7100	17250.4600	16844.6100	3000.0000	12740.0700	12121.6000
12428.5700	17071.4300	17518.6500	17038.4100	2964.2860	13004.8100	12380.3900
12571.4300	17214.2900	17774.2700	17142.2400	2821.4280	13237.5800	12600.5200
11142.8600	10142.8600	11053.1100	10377.2100	71.4286	10112.7400	10661.0600
11142.8600	10214.2900	17507.9900	13882.4500	71.4286	10113.4800	10611.2400
11071.4300	10500.0000	17620.6000	14148.6400	71.4286	10160.3300	10578.5200
11071.4300	10928.5700	17711.3800	14568.2000	71.4286	10283.0300	10559.9300
11071.4300	11642.8600	17852.1800	15196.7600	178.5715	10845.2400	10552.4900
11071.4300	12500.0000	18024.8900	15866.1700	357.1429	11449.8300	10930.2700
11428.5700	13500.0000	18117.0000	16516.0200	678.5715	12059.6300	11431.4900
11857.1400	14571.4300	18117.0000	16994.4200	1178.5720	12516.9700	11878.4300
12357.1400	15928.5700	18117.0000	17239.1200	1964.2860	13015.2200	12392.2900
12785.7100	16928.5700	18117.0000	17468.7600	2642.8570	13461.4200	12835.5100
12785.7100	16928.5700	18116.2600	17412.2400	2642.8570	13416.0500	12848.9000
12857.1400	17000.0000	18117.0000	17502.1900	2607.1430	13576.6800	12962.6800
12928.5700	17071.4300	18117.0000	17525.6800	2571.4280	13662.2000	13042.2500
13214.2900	17071.4300	18117.0000	17667.4400	2571.4280	13877.0000	13333.0200
13214.2900	16928.5700	16713.7200	16555.6800	3035.7150	12909.5100	13325.5800
13142.8600	15928.5700	15598.2400	15892.3400	3357.1430	12205.2700	12965.6500
12928.5700	15000.0000	14714.0400	15094.3900	3107.1430	11722.6400	12517.2300
12714.2900	14214.2900	13956.9900	14267.4500	2571.4280	11417.7400	12208.6100
12357.1400	13214.2900	13008.8300	13247.1600	1892.8570	11093.5000	11859.0900
12000.0000	11928.5700	11833.8600	12011.9500	1071.4280	10749.1900	11473.1300
11642.8600	10857.1400	10780.8400	10938.1100	500.0000	10405.6200	11104.2800
11142.8600	9785.7140	9990.3390	10126.0400	0.0000	10062.0500	10710.1400
11071.4300	9785.7140	9966.5420	10109.6700	0.0000	10051.6400	10684.1200
11071.4300	10285.7100	18084.4600	15373.0900	0.0000	10307.6900	10620.1600
11000.0000	11642.8600	18117.0000	16354.9600	-35.7143	11138.3500	10626.1100
11642.8600	13785.7100	18117.0000	17160.1600	535.7145	12468.7500	11738.6200
12142.8600	15000.0000	18117.0000	17357.2200	1142.8570	13011.6200	12285.9500
12428.5700	15714.2900	18117.0000	17499.8200	1535.7140	13306.1000	12584.1600
12428.5700	14785.7100	16051.1300	16543.4800	2107.1430	12096.9200	12544.7400
12428.5700	14000.0000	15033.0600	15582.6700	2321.4280	11535.4600	12132.0100
12214.2900	13214.2900	14309.4900	14815.2200	2000.0000	11132.4000	11792.1600
11928.5700	12428.5700	13556.1600	14026.9500	1464.2860	10878.0700	11522.9600
11714.2900	11571.4300	12767.8900	13186.6200	1000.0000	10679.5200	11277.5500
11428.5700	10428.5700	11760.2400	12156.6600	285.7143	10391.7200	10954.8100
11071.4300	9714.2860	11243.4000	11639.0700	-35.7143	10163.4200	10686.3500

Def_api
Deformación en sección de apoyo Central

"G. H. 9"	"G. H. 10"	"G. AC. 5"	"G. AC. 6"	"CARGA TOT"	"CURVAT."	Carga kN
0.000	-0.001	-0.001	0	0.001	0.000	0.010
-0.002	-0.002	-0.003	-0.003	0.000	0.000	0.000
-0.002	-0.003	-0.003	-0.003	0.000	0.000	0.000
0.060	0.057	-0.018	-0.016	1.913	0.003	19.125
0.117	0.112	-0.031	-0.027	3.718	0.005	37.180
0.211	0.216	-0.047	-0.042	6.115	0.009	61.145
0.307	0.327	-0.066	-0.059	8.190	0.014	81.900
0.363	0.388	-0.075	-0.068	9.209	0.016	92.090
0.546	0.594	-0.107	-0.096	11.780	0.024	117.800
0.755	0.803	-0.139	-0.126	14.037	0.033	140.370
0.929	0.970	-0.170	-0.154	16.094	0.040	160.935
1.077	1.108	-0.202	-0.186	18.335	0.047	183.345
1.084	1.112	-0.207	-0.195	18.043	0.047	180.430
1.226	1.258	-0.244	-0.281	20.720	0.055	207.195
1.331	1.385	-0.274	-0.364	22.857	0.061	228.570
1.303	1.384	-0.274	-0.375	22.628	0.061	226.275
1.397	1.515	-0.310	-0.417	25.764	0.066	257.635
1.478	1.638	-0.378	-0.447	29.282	0.072	292.815
1.383	1.595	-0.387	-0.457	28.527	0.069	285.265
1.553	1.661	-0.448	-0.495	31.562	0.076	315.620
1.591	1.691	-0.492	-0.523	33.098	0.078	330.975
1.549	1.673	-0.494	-0.530	32.609	0.077	326.085
1.580	1.695	-0.519	-0.544	33.742	0.079	337.415
1.621	1.689	-1.673	-2.504	35.642	0.136	356.415
1.599	1.673	-1.595	-2.395	35.082	0.132	350.820
1.596	1.671	-1.584	-2.381	35.014	0.131	350.135
1.680	1.744	-1.954	-2.658	37.483	0.146	374.830
1.690	1.753	-1.855	-2.428	38.185	0.140	381.850
1.689	1.764	-1.072	-2.287	39.489	0.124	394.890
1.685	1.762	-1.003	-2.217	39.124	0.121	391.240
1.693	1.770	-0.956	-2.177	37.478	0.120	374.775
1.430	1.573	-0.447	-0.979	27.027	0.081	270.270
1.358	1.519	-0.379	-0.840	23.431	0.074	234.305
1.225	1.406	-0.329	-0.759	15.859	0.068	158.585
1.114	1.298	-0.331	-0.688	10.273	0.062	102.725
0.931	1.109	-0.331	-0.591	5.228	0.054	52.280
0.418	0.469	-0.324	-0.464	-0.454	0.030	-4.535
0.456	0.514	-0.341	-0.466	-0.340	0.032	-3.400
0.742	0.880	-0.371	-0.539	6.394	0.046	63.935
0.880	1.061	-0.390	-0.605	10.572	0.053	105.715
0.983	1.191	-0.405	-0.688	14.137	0.059	141.370
1.094	1.316	-0.421	-0.834	17.869	0.067	178.685
1.201	1.409	-0.421	-0.900	22.072	0.071	220.715
1.280	1.470	-0.498	-0.991	26.424	0.077	264.240
1.375	1.535	-0.615	-1.307	30.737	0.088	307.365
1.508	1.628	-0.801	-1.825	35.388	0.105	353.880
1.584	1.685	100.000	-2.253	39.768	-1.718	397.680
1.549	1.656	100.000	-2.169	40.542	-1.720	405.420
1.528	1.630	100.000	-2.063	39.876	-1.723	398.760
1.465	1.603	100.000	-1.694	38.401	-1.732	384.010
1.460	1.594	100.000	-1.671	38.217	-1.732	382.165
1.304	1.471	100.000	-1.085	29.453	-1.748	294.525
1.227	1.412	100.000	-1.017	20.456	-1.752	204.560
1.179	1.374	100.000	-1.011	15.782	-1.753	157.820
1.084	1.288	100.000	-0.976	10.300	-1.757	102.995
0.941	1.137	100.000	-0.898	5.287	-1.764	52.865
0.632	0.806	100.000	-0.786	-0.538	-1.778	-5.380

Def_cl

Evolución de la deformación en sección de centro luz, vano cargado VPE_1

ACERO I.	HORM.SUP	HORM CEN	HORM INF	ACERO S.	MEDIA H.S.	CARGA Kn
0.1833	0.00227	0.04038	0.0711	0.0113	0	0.01
0.1818	0.00027	0.03838	0.0701	0.0078	-0.002	0
0.1818	0.00027	0.03838	0.0701	0.0073	-0.002	0
0.1308	0.04627	0.06138	0.0761	0.0448	0.0305	19.125
0.0868	0.07927	0.07938	0.0801	0.0738	0.056	37.18
0.0208	0.12827	0.10938	0.0861	0.1163	0.094	61.145
-0.0557	0.17027	0.13138	0.0831	0.1538	0.1285	81.90001
-0.1037	0.19127	0.13938	0.0781	0.1703	0.1455	92.09
-0.2672	0.24427	0.15338	0.0411	0.2128	0.1905	117.8
-0.4282	0.29027	0.15938	-0.0419	0.2473	0.2305	140.37
-0.5627	0.32827	0.16438	-0.1159	0.2763	0.2635	160.935
-0.7027	0.36827	0.17138	-0.1859	0.3088	0.3	183.345
-0.6982	0.36527	0.17338	-0.1809	0.3048	0.2975	180.43
-0.8867	0.40627	0.16938	-0.3149	0.3413	0.3375	207.195
-1.1412	0.46827	0.13038	-0.5699	0.3793	0.3955	228.57
-1.1352	0.46627	0.13038	-0.5609	0.3758	0.3935	226.275
-1.4107	0.52827	0.09938	-0.6999	0.4203	0.4525	257.635
-1.9362	0.62327	0.05138	-0.9089	0.4853	0.5435	292.815
-1.9377	0.62327	0.04838	-0.8919	0.4803	0.5435	285.265
-2.4022	0.70327	0.00138	-1.1269	0.5338	0.621	315.62
-2.6787	0.74727	-0.03262	-1.2979	0.5623	0.663	330.975
-2.6702	0.75027	-0.03062	-1.4309	0.5628	0.6645	326.085
-2.7932	0.77227	-0.13262	100.0721	0.5783	0.6865	337.415
-3.2477	0.85227	-0.21262	100.0721	0.6333	0.7625	356.415
-3.2302	0.85227	-0.21462	100.0721	0.6303	0.7615	350.82
-3.2287	0.85227	-0.21462	100.0721	0.6298	0.762	350.135
-3.4507	0.90927	-0.26662	100.0721	0.6708	0.8165	374.83
-3.3632	0.92927	-0.28462	100.0721	0.6803	0.8365	381.85
-3.2547	0.96927	-0.31462	100.0721	0.7083	0.875	394.89
-3.2132	0.96327	-0.31462	100.0721	0.7023	0.869	391.24
-3.0407	0.93127	-0.29662	100.0721	0.6753	0.8375	374.775
-1.9917	0.72127	-0.17162	100.0721	0.5133	0.63	270.27
-1.5317	0.62427	-0.11462	100.0721	0.4388	0.5355	234.305
-0.6257	0.41827	0.07238	-0.7989	0.2848	0.3365	158.585
-0.2007	0.29127	0.06938	-0.5429	0.1768	0.217	102.725
0.0218	0.18427	0.01238	-0.4939	0.0803	0.1255	52.28
0.1933	-0.07973	-0.12662	-0.4989	-0.0487	-0.025	-4.535
0.2268	-0.11173	-0.13362	-0.5049	-0.0637	-0.0475	-3.4
0.0653	0.14527	0.03438	-0.4469	0.0898	0.1025	63.935
-0.0712	0.23327	0.09338	-0.4399	0.1653	0.1735	105.715
-0.2762	0.30627	0.12138	-0.4709	0.2293	0.238	141.37
-0.6442	0.39527	0.10938	-1.3629	0.2973	0.3205	178.685
-1.1942	0.51027	-0.05062	100.0721	0.3748	0.43	220.715
-1.8052	0.63827	-0.13762	100.0721	0.4638	0.553	264.24
-2.3582	0.75627	-0.21362	100.0721	0.5483	0.667	307.365
-2.8962	0.87327	-0.30662	100.0721	0.6308	0.782	353.88
-3.2227	0.98927	-0.41362	100.0721	0.6063	0.8955	397.68
-3.1412	1.05727	-0.48762	100.0721	0.6378	0.962	405.42
-3.0857	1.05727	-0.48662	100.0721	0.6313	0.96	398.76
-2.8587	1.07927	-0.50762	100.0721	0.6353	0.981	384.01
-2.8487	1.07627	-0.50662	100.0721	0.6313	0.978	382.165
-1.8702	0.87827	-0.35762	100.0721	0.4803	0.781	294.525
-0.5477	0.58627	-0.13162	100.0721	0.2643	0.4955	204.56
-0.0707	0.45427	-0.09962	100.0721	0.1578	0.3685	157.82
0.2713	0.32127	-0.10962	100.0721	0.0473	0.2445	102.995
0.4438	0.18227	-0.17762	100.0721	-0.0592	0.134	52.865
0.5778	-0.15773	-0.32762	100.0721	-0.2012	-0.0525	-5.38

Galg_ap2

"G. H. 9"	"G. H. 10"	"CAR. MED."	Carga kN
0.000	0.000	0.000	0.000
0.000	0.000	-0.001	-0.010
-0.001	-0.001	-0.001	-0.010
0.318	0.232	5.220	52.200
0.432	0.320	7.435	74.345
0.573	0.432	10.222	102.220
0.692	0.518	12.684	126.835
0.844	0.615	15.691	156.905
0.949	0.674	17.794	177.940
1.054	0.733	20.161	201.610
1.152	0.792	22.810	228.095
1.210	0.831	25.295	252.950
1.246	0.861	27.733	277.325
1.289	0.891	30.499	304.990
1.326	0.921	32.581	325.810
1.370	0.958	34.943	349.425
1.401	0.954	36.274	362.735
1.427	0.974	37.858	378.575
1.448	0.986	38.909	389.085
1.458	0.994	39.586	395.855
1.493	1.010	40.848	408.480
1.526	1.046	41.564	415.635
1.540	1.055	0.001	0.010

Galg_cl2

"G. H. 3"	"G. H. 4"	"G. H. 5"	"G. H. 6"	"G. H. 7"	"G. H. 8"
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
-0.0010	0.0000	0.0000	-0.0010	-0.0010	0.0000
0.1200	0.0740	0.0360	0.0430	0.3300	0.0280
0.1480	0.0900	0.0530	0.0590	0.3930	0.0560
0.1810	0.1100	0.0730	0.0770	0.4740	0.0980
0.2010	0.1260	0.0890	0.0900	0.5340	0.1380
0.2150	0.1400	0.1010	0.1010	0.6090	0.1930
0.2100	0.1380	0.0980	0.1000	0.6620	0.2380
0.1840	0.1140	0.0860	0.0900	0.7230	0.2920
0.1240	0.0590	0.0650	0.0700	0.7980	0.3580
0.0500	-0.0080	0.0390	0.0490	0.8780	0.4290
-0.0350	-0.0770	0.0170	0.0250	0.9620	0.5050
-0.1360	-0.1530	-0.0100	-0.0010	1.0600	0.5950
-0.1980	-0.1970	-0.0320	-0.0160	1.1230	0.6550
-0.2730	-0.2530	-0.0550	-0.0350	1.1980	0.7250
-0.3110	-0.2960	-0.0660	-0.0530	1.2510	0.7710
-0.3700	-0.3380	-0.0900	-0.0700	1.3100	0.8270
-0.4020	-0.3630	-0.1070	-0.0790	1.3540	0.8670
-0.4250	-0.3810	-0.1140	-0.0860	1.3790	0.8910
-0.4850	-0.4400	-0.1470	-0.1080	1.4330	0.9420
-0.6140	-0.5540	-0.1970	-0.1480	1.4960	1.0030
-0.7170	-0.6170	-0.2350	-0.1770	1.5420	1.0480

'G. AC. 1"	"G. AC. 2"	"G. AC. 3"	"G. AC. 4"	"CAR. MED."	Carga kN
0.0000	0.0000	0.0000	0.0000	0	0.0000
0.0000	0.0000	0.0000	0.0000	-0.0010	-0.0100
0.0000	0.0000	0.0000	-0.0010	-0.0010	-0.0100
-0.1160	-0.1260	0.1440	0.1200	5.2200	52.2000
-0.1680	-0.1860	0.1850	0.1560	7.4345	74.3450
-0.2500	-0.2820	0.2370	0.2060	10.2220	102.2200
-0.3470	-0.3960	0.2790	0.2510	12.6835	126.8350
-0.5470	-0.6240	0.3350	0.3100	15.6905	156.9050
-0.7840	-0.8620	0.3720	0.3530	17.7940	177.9400
-1.0900	-1.1790	0.4110	0.3990	20.1610	201.6100
-1.4600	-1.5700	0.4580	0.4510	22.8095	228.0950
-1.8300	-1.9650	0.5110	0.5060	25.2950	252.9500
-2.2170	-2.3800	0.5680	0.5640	27.7325	277.3250
-2.6580	-2.8580	0.6340	0.6330	30.4990	304.9900
-2.9350	-3.1590	0.6780	0.6800	32.5810	325.8100
-3.2290	-3.4950	0.7280	0.7330	34.9425	349.4250
-3.3860	-3.6910	0.7670	0.7620	36.2735	362.7350
-3.5370	-3.8830	0.8050	0.8000	37.8575	378.5750
-3.6100	-3.9920	0.8340	0.8290	38.9085	389.0850
-3.6380	-4.0420	0.8500	0.8450	39.5855	395.8550
-3.5420	-4.0620	0.8810	0.8730	40.8480	408.4800
-3.5660	-4.0460	0.9110	0.9010	41.5635	415.6350
-3.6290	-3.9330	0.9370	0.9220	0.0010	0.0100

7.4 ENSAYO VPE_3

C_carga

Carga-Reacción

CELULAS DE CARGA DE GATOS Y CORDONES						
FECHA DE ENSAYO: 12 Jun 1997						
	C1	C2	C3	C4	C5	C6
	-0.0	0.0	-14.8	-14.9	-16.2	-16.0
	-0.0	0.0	-14.8	-14.9	-16.2	-16.0
	-0.0	-4.9	-14.8	-14.9	-16.2	-16.0
	-8.4	-10.1	-15.0	-15.2	-16.2	-16.0
	-13.1	-13.0	-15.4	-15.6	-16.2	-16.0
	-16.0	-14.9	-15.7	-15.9	-16.2	-16.0
	-20.2	-18.1	-16.3	-16.6	-16.2	-16.0
	-22.2	-19.7	-16.7	-16.9	-16.2	-16.0
	-25.2	-22.7	-17.3	-17.5	-16.1	-16.0
	-27.7	-25.2	-17.8	-18.0	-16.1	-16.0
	-30.2	-27.9	-18.5	-18.6	-16.1	-16.4
	-32.1	-29.9	-19.0	-19.1	-16.4	-16.8
	-35.0	-32.8	-20.0	-20.0	-17.0	-17.3
	-36.6	-34.9	-20.8	-20.7	-17.5	-17.9
	-35.1	-34.7	-20.7	-20.7	-17.6	-17.9
	-33.9	-33.7	-20.7	-20.7	-17.6	-17.9
	-27.3	-25.3	-22.7	-22.9	-20.0	-20.6

Car-Flecha

C1	C2	C3	C4	C5	C6	L1
0	0.0	-14.8	-14.9	-16.2	-16.0	2
0	0.0	-14.8	-14.9	-16.2	-16.0	0
0	-4.9	-14.8	-14.9	-16.2	-16.0	290
-8.4	-10.1	-15.0	-15.2	-16.2	-16.0	1,622
-13.1	-13.0	-15.4	-15.6	-16.2	-16.0	2,568
-16,0	-14.9	-15.7	-15.9	-16.2	-16.0	3,330
-20,2	-18.1	-16.3	-16.6	-16.2	-16.0	4,750
-22,2	-19.7	-16.7	-16.9	-16.2	-16.0	5,520
-25,2	-22.7	-17.3	-17.5	-16.1	-16.0	6,996
-27,7	-25.2	-17.8	-18.0	-16.1	-16.0	8,490
-30,2	-27.9	-18.5	-18.6	-16.1	-16.4	10,322
-32,1	-29.9	-19.0	-19.1	-16.4	-16.8	12,138
-35,0	-32.8	-20.0	-20.0	-17.0	-17.3	14,658
-36,6	-34.9	-20.8	-20.7	-17.5	-17.9	17,260
-35,1	-34.7	-20.7	-20.7	-17.6	-17.9	17,548
-33,9	-33.7	-20.7	-20.7	-17.6	-17.9	17,654
-27,3	-25.3	-22.7	-22.9	-20.0	-20.6	27,134

L2	L3	L4	L5	L6	L1	L2
0	0	0	-2	3,094	0.002	0
0	-2	2	-2	2,704	0	0
-1,022	1,102	1,092	-674	344	0.29	1,022
-5,030	5,152	4,790	-3,448	2,504	1.622	5.03
-8,172	8,316	7,712	-5,612	2,422	2.568	8.172
-10,736	10,832	10,016	-7,378	3,532	3.33	10.736
-15,388	15,302	14,020	-10,492	862	4.75	15.388
-17,922	17,702	16,178	-12,112	2,724	5.52	17.922
-22,936	22,376	20,476	-14,650	1,532	6.996	22.936
-27,962	27,110	24,814	-16,658	3,182	8.49	27.962
-34,314	33,148	30,302	-18,666	2,968	10.322	34,314
-40,294	38,922	35,592	-20,298	3,918	12.138	40.294
-49,224	47,440	43,208	-22,576	5,562	14.658	49.224
-57,516	55,438	50,332	-24,300	7,262	17.26	57.516
-57,758	55,528	50,288	-24,150	10,264	17.548	57.758
-58,024	55,450	49,890	-23,930	10,408	17.654	58.024
-87,846	80,790	72,380	-21,962	17,726	27.134	87.846

Lvdt_F.xls

L1	L2	L3	L4	L5	L6
.002	0.000	0.000	0.000	.002	3,094
0.000	0.000	-.002	.002	.002	2,704
.290	-1,022	1,102	1,092	-.674	0,344
1,622	-5,030	5,152	4,790	-3,448	2,504
2,568	-8,172	8,316	7,712	-5,612	2,422
3,330	-10,736	10,832	10,016	-7,378	3,532
4,750	-15,388	15,302	14,020	-10,492	0,862
5,520	-17,922	17,702	16,178	-12,112	2,724
6,996	-22,936	22,376	20,476	-14,650	1,532
8,490	-27,962	27,110	24,814	-16,658	3,182
10,322	-34,314	33,148	30,302	-18,666	2,968
12,138	-40,294	38,922	35,592	-20,298	3,918
14,658	-49,224	47,440	43,208	-22,576	5,562
17,260	-57,516	55,438	50,332	-24,300	7,262
17,548	-57,758	55,528	50,288	-24,150	10,264
17,654	-58,024	55,450	49,890	-23,930	10,408
27,134	-87,846	80,790	72,380	-21,962	17,726

I_tensio.xls

TENSIONES (KP/CM2)	A. activo					A. pasivo
	tramo1	tramo2	tramo3	tramo4	tramo5	tramo6
VISTO inicial	10374.29	10646.89	11059.72	11934.03	11807.32	11492.14
1	10571.43	10649.90	11059.72	11934.03	11807.32	11571.43
2	10571.43	10646.89	11059.72	11935.53	11807.32	11571.43
3	10571.43	10734.78	11095.78	11937.78	11835.11	11571.43
4	10714.29	11005.20	11235.49	11942.29	11906.47	11571.43
5	11000.00	11254.58	11369.95	11940.79	11949.29	11571.43
6	11214.29	11505.47	11481.88	11963.32	11973.32	11571.43
7	11642.86	11999.74	11756.80	12014.40	12015.39	11571.43
8	11928.57	12240.87	11979.90	12064.73	12034.17	11571.43
9	12357.14	12706.59	12415.58	12317.87	11974.08	11500.00
10	12714.29	13140.76	12823.46	12676.93	11868.16	11500.00
11	13214.29	13599.73	13248.62	13036.74	12097.27	11500.00
12	13571.43	13947.46	13608.43	13341.71	12397.73	11714.29
13	14285.71	14458.67	14071.27	13761.61	12821.39	12142.86
14	14857.14	14933.67	14502.60	14114.40	13247.30	12500.00
15	14785.71	14896.96	14512.42	14130.44	13272.09	12571.43
16	14785.71	14848.36	14542.60	14155.56	13286.36	12571.43
17	16214.29	16554.82	16278.38	15444.57	15037.02	14285.71

TENSIONES (KP/CM2)	tramo1	tramo2	tramo3	tramo4	tramo5	tramo6
OCULTO inicial	10592.14	10773.27	11044.53	11607.73	11790.37	11576.43
	10642.86	10773.27	11044.53	11607.73	11790.37	11428.57
	10642.86	10773.27	11044.53	11607.73	11791.12	11428.57
	10642.86	10873.55	11080.59	11614.49	11819.66	11428.57
	10857.14	11167.63	11204.53	11612.24	11893.28	11428.57
	11142.86	11442.56	11361.53	11614.49	11938.35	11428.57
	11357.14	11670.16	11554.58	11635.53	11960.13	11428.57
	11857.14	12043.11	11924.90	11786.51	11995.44	11428.57
	12071.43	12223.39	12093.91	11945.76	12011.21	11428.57
	12500.00	12538.88	12416.92	12238.71	11863.98	11428.57
	12857.14	12830.71	12718.89	12521.90	11903.04	11428.57
	13285.71	13143.95	13051.65	12838.14	12226.80	11714.29
	13642.86	13463.95	13395.69	13152.13	12522.00	12000.00
	14285.71	13915.89	13876.07	13596.07	12938.15	12357.14
	14785.71	14320.22	14319.26	13998.74	13358.05	12785.71
	14785.71	14306.55	14313.65	14007.75	13388.10	12785.71
	14785.71	14291.83	14311.55	13997.36	13407.63	12785.71
	16357.14	18300	16552.94	16017.97	15272.89	14714.29

Galan.xls

Arapree en apoyo intermedio (negativos)

GALGAS EN ARAPREE EN APOYO INTERMEDIO							
FECHA DE	ENSAYO :		12-jun				
	Aran1	Aran2	Aran3	Aran4	Aran5	C1 (T M)	C1 (KN)
17:51:28	0.002	0.005	0.061	0.051	0.041	0	0
17:51:44	0.002	0.005	0.061	0.051	0.041	0	0
17:53:11	0.002	0.005	0.061	0.051	0.041	0	0
17:54:30	0.002	0.005	0.061	0.051	0.041	8.4	84
17:57:54	0.002	0.005	0.061	0.051	0.041	13.1	131
18:00:34	0.002	0.005	0.061	0.051	0.041	16	160
18:06:24	0.002	0.005	0.062	0.051	0.041	20.2	202
18:13:17	0.002	0.005	0.062	0.051	0.041	22.2	222
18:17:33	0.003	0.006	0.063	0.051	0.042	25.2	252
18:22:32	0.005	0.009	0.065	0.051	0.042	27.7	277
18:24:22	0.008	0.014	0.068	0.051	0.042	30.2	302
18:28:46	0.012	0.017	0.072	0.05	0.042	32.1	321
18:32:42	0.015	0.018	0.074	0.05	0.042	35	350
18:35:39	0.015	0.019	0.074	0.05	0.042	36.6	366
18:36:39	0.015	0.019	0.074	0.05	0.042	35.1	351
18:38:31	0.014	0.018	0.073	0.05	0.042	33.9	339
18:39:11	2.428	2.428	2.428	2.428	0.043	27.3	273

Galapo.xls

Arapree momentos positivos centro luz vano cargado

GALGAS EN ARAPREE EN CENTRO LUZ, VANO CARGADO							
FECHA DE	jun-97						
	Arap1	Arap2	Arap3	Arap4	Arap5	C1 (TM)	C1 (KN)
	-0.003	-0.008	0.011	-0.002	-0.006	0	0
	-0.003	-0.008	0.011	-0.002	-0.006	0	0
	-0.003	-0.008	0.011	-0.002	-0.006	0	0
	-0.002	-0.007	0.012	-0.001	-0.005	8.4	84
	-0.001	-0.007	0.012	-0.001	-0.004	13.1	131
	-0.001	-0.006	0.013	-0.001	-0.004	16	160
	0.001	-0.004	0.014	-0.001	-0.003	20.2	202
	0.001	-0.003	0.015	0	-0.003	22.2	222
	0.003	-0.001	0.016	0	-0.002	25.2	252
	0.005	0.001	0.018	0	-0.001	27.7	277
	0.007	0.003	0.02	0.001	0	30.2	302
	0.008	0.005	0.021	0.001	0	32.1	321
	0.011	0.007	0.024	0.001	0	35	350
	0.013	0.01	0.028	0.001	-0.001	36.6	366
	0.014	0.01	0.012	0.001	-0.005	35.1	351
	0.014	0.01	0.012	0.001	-0.005	33.9	339
	2.427	2.423	2.423	0	-0.005	27.3	273

7.5 ENSAYO VHA1_a

Carga kN	LVDT 2	LVDT 5	Hor-Emb	Ace-Emb	Gal-pos 12	Gal-pos 34
-0.01125	0	-0.007	0	0	0	0
-0.01125	0	-0.002	0	0	0	0
0.19125	0.018	-0.01	0	-0.000667	-0.0035	0.0015
6.01875	0.174	0.113	0.004	-0.006333	-0.037	0.015
11.30625	0.338	0.23	0.008333	-0.012333	-0.0705	0.0295
17.7975	0.512	0.415	0.013667	-0.019333	-0.1085	0.044
21.07125	0.656	0.533	0.017	-0.023667	-0.1375	0.0545
26.24625	0.844	0.886	0.023	-0.029333	-0.1725	0.0665
31.95	0.968	1.651	0.031667	-0.037333	-0.1995	0.075
36.46125	1.306	2.047	0.039	-0.045	-0.2395	0.0875
36.4725	1.58	2.215	0.043	-0.048	-0.24	0.0865
42.40125	3.008	2.201	0.058667	-0.062667	-0.4305	0.14
46.4175	3.632	2.369	0.066	-0.072333	-0.522	0.1555
51.5475	4.122	2.762	0.074333	-0.08	-0.603	0.1685
51.62625	4.378	3.079	0.077667	-0.089333	-0.6565	0.172
55.62	4.736	3.288	0.083333	-0.097667	-0.7065	0.1825
60.4575	5.568	3.746	0.094	-0.254	-0.8435	0.2035
65.21625	6.442	4.255	0.102667	-0.320333	-1.0045	0.222
70.11	7.704	5.059	0.113333	-0.465667	-1.2175	0.2405
74.73375	8.356	5.426	0.12	-0.500333	-1.3155	0.2545
79.41375	9.864	6.506	0.139333	-1.561333	-1.5525	0.281
88.56	12.134	8.069	0.145333	-2.248667	-1.8975	0.3265
92.84625	13.268	9.206	0.143333	-2.614333	-2.0665	0.357
-0.75375	4.756	4.5888	0.01143	-1.042158	-0.667849	0.02906

R-1 (kN)	R-2 (kN)	R-3 (kN)	Gal-pos 56	Gal-pos 78
0	0	0.583517	0	0
0.048626	0	0	0	0
0.583517	0.65	0	0	-0.0005
4.668137	9.975	6.856326	-0.0155	0.005
8.606878	19.175	12.25386	-0.031	0.011
12.6915	30.325	20.86074	-0.054	0.018
15.31733	37.325	26.25827	-0.067	0.0225
18.62392	47.675	34.57339	-0.0845	0.0275
21.20112	59.975	41.72148	-0.1195	0.036
22.85442	68.625	47.55665	-0.135	0.0395
22.41678	69.225	47.84841	-0.1385	0.039
32.1907	94.175	48.28604	-0.1365	0.038
34.71927	105.4	46.97313	-0.147	0.0425
37.29647	117.125	46.53549	-0.1795	0.0505
37.19922	118.8	46.53549	-0.203	0.0515
40.70032	128.325	48.86956	-0.2175	0.0555
44.83357	139.825	53.82946	-0.2665	0.0655
48.96681	151.85	55.43413	-0.3375	0.0735
52.22478	164.95	60.68578	-0.401	0.08
55.23962	175.925	60.83166	-0.4325	0.087
60.88029	184.45	61.12342	-0.538	0.102
66.08332	210.5	73.08552	-0.657	0.11
69.14678	222.125	75.56547	-0.7915	0.115
5.786545	13.8	10.35743	-0.335382	-0.005926

Def_cla

Carga kN	Ghorm1	Ghorm2	Ghorm3	Ghorm4	Ghorm5	Ghorm6	Gacer
-0.011	0	0	0	0	0	0	
-0.011	0	0	0	0	0	0	
0.191	-0.001	-0.001	0.001	0.002	0	0.002	
6.019	-0.004	-0.008	0.008	0.013	0.005	0.015	
11.306	-0.009	-0.017	0.015	0.023	0.009	0.026	
17.798	-0.018	-0.029	0.021	0.03	0.012	0.035	
21.071	-0.03	-0.041	0.024	0.034	0.014	0.042	
26.246	-0.051	-0.062	0.026	0.036	0.016	0.046	
31.950	-0.071	-0.077	0.026	0.032	0.015	0.048	
36.461	-0.103	-0.091	0.024	0.033	0.014	0.054	
36.473	-0.097	-0.115	0.022	0.018	0.007	0.048	
42.401	-0.198	-0.222	0.014	0.02	0.006	0.07	
46.418	-0.236	-0.252	0.005	0.014	0.001	0.065	
51.548	-0.269	-0.259	-0.002	0.022	-0.006	0.063	
51.626	-0.293	-0.266	-0.01	0.022	-0.013	0.057	
55.620	-0.316	-0.289	-0.012	0.021	-0.015	0.058	
60.458	-0.388	-0.34	-0.03	0.026	-0.03	0.06	
65.216	-0.46	-0.401	-0.049	0.021	-0.046	0.05	
70.110	-0.534	-0.499	-0.078	0.003	-0.078	0.03	
74.734	-0.547	-0.547	-0.08	-0.005	-0.087	0.025	
79.414	-0.606	100	-0.127	-0.055	-0.124	-0.026	
88.560	-0.747	100	-0.201	-0.297	-0.17	-0.174	
92.846	-0.843	100	-0.219	-0.326	-0.194	-0.234	
-0.754	-0.470046	-0.247348	-1.491485	-0.270323	-0.14414	-0.322111	-0.5

r1	Gacer2	Gacer3	Gacer4	Gal-pas12	Gal-pas34	GHorm-12	GHorm-34
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
-0.004	-0.003	0.001	0.002	-0.0035	0.0015	-0.001	0.0015
-0.04	-0.034	0.012	0.018	-0.037	0.015	-0.006	0.0105
-0.077	-0.064	0.026	0.033	-0.0705	0.0295	-0.013	0.019
-0.12	-0.097	0.041	0.047	-0.1085	0.044	-0.0235	0.0255
-0.153	-0.122	0.052	0.057	-0.1375	0.0545	-0.0355	0.029
-0.196	-0.149	0.064	0.069	-0.1725	0.0665	-0.0565	0.031
-0.23	-0.169	0.073	0.077	-0.1995	0.075	-0.074	0.029
-0.279	-0.2	0.086	0.089	-0.2395	0.0875	-0.097	0.0285
-0.249	-0.231	0.082	0.091	-0.24	0.0865	-0.106	0.02
-0.418	-0.443	0.12	0.16	-0.4305	0.14	-0.21	0.017
-0.482	-0.562	0.13	0.181	-0.522	0.1555	-0.244	0.0095
-0.54	-0.666	0.141	0.196	-0.603	0.1685	-0.264	0.01
-0.57	-0.743	0.145	0.199	-0.6565	0.172	-0.2795	0.006
-0.617	-0.796	0.154	0.211	-0.7065	0.1825	-0.3025	0.0045
-0.728	-0.959	0.17	0.237	-0.8435	0.2035	-0.364	-0.002
-0.852	-1.157	0.186	0.258	-1.0045	0.222	-0.4305	-0.014
-1.029	-1.406	0.199	0.282	-1.2175	0.2405	-0.5165	-0.0375
-1.13	-1.501	0.21	0.299	-1.3155	0.2545	-0.547	-0.0425
-1.394	-1.711	0.233	0.329	-1.5525	0.281	-0.606	-0.091
-1.763	-2.032	0.254	0.399	-1.8975	0.3265	-0.747	-0.249
-1.928	-2.205	0.272	0.442	-2.0665	0.357	-0.843	-0.2725
77363	-0.758334	-0.003059	0.061179	-0.667849	0.02906	-0.358697	-0.880904

Def_clb

Carga kN	Ghorm7	Ghorm8	Ghorm9	Ghorm10	Ghorm11	Ghorm12	Gacer6
-0.011	0	0	0	0	0	0	
-0.011	0	0	0	0	0	0	
0.191	0	0	0	0	0	0	
6.019	-0.003	0	0.003	0.001	0.002	0.003	-0.001
11.306	-0.006	-0.001	0.005	0.002	0.004	0.005	-0.002
17.798	-0.014	-0.002	0.008	0.004	0.006	0.009	-0.004
21.071	-0.02	-0.003	0.008	0.005	0.007	0.011	-0.005
26.246	-0.028	-0.006	0.007	0.006	0.007	0.014	-0.006
31.950	-0.051	-0.012	0.004	0.005	0.007	0.011	-0.007
36.461	-0.078	-0.005	0.002	0.008	0.008	0.013	-0.008
36.473	-0.09	-0.008	-0.001	0.007	0.007	0.011	-0.009
42.401	-0.092	-0.008	-0.005	0.007	0.006	0.011	-0.01
46.418	-0.096	-0.009	-0.005	0.008	0.007	0.012	-0.011
51.548	-0.12	-0.014	-0.009	0.009	0.008	0.016	-0.012
51.626	-0.125	-0.032	-0.018	0.008	0.005	0.012	-0.013
55.620	-0.129	-0.035	-0.016	0.008	0.007	0.013	-0.014
60.458	-0.146	-0.06	-0.019	0.009	0.006	0.016	-0.015
65.216	-0.159	-0.183	-0.02	0	0.007	0.008	-0.016
70.110	-0.182	-0.235	-0.024	-0.004	0.005	0.005	-0.017
74.734	-0.196	-0.248	-0.026	-0.004	0.005	0.006	-0.018
79.414	-0.278	-0.321	-0.031	-0.009	0.008	0.001	-0.019
88.560	-0.293	-0.44	-0.045	-0.016	-0.002	-0.004	-0.02
92.846	-0.394	-0.905	-0.089	-0.043	-0.02	-0.06	-0.021
-0.754	-0.176857	-0.583301	-0.091164	-0.04909	-0.048701	-0.106356	-0.28

5	Gacer6	Gacer7	Gacer8	Gal-pas56	Gal-pas78	GHorm 78	GHorm910
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	-0.001	0	-0.0005	0	0
0.018	-0.013	0.006	0.004	-0.0155	0.005	-0.0015	0.002
0.036	-0.026	0.013	0.009	-0.031	0.011	-0.0035	0.0035
0.063	-0.045	0.021	0.015	-0.054	0.018	-0.008	0.006
0.077	-0.057	0.026	0.019	-0.067	0.0225	-0.0115	0.0065
0.088	-0.081	0.03	0.025	-0.0845	0.0275	-0.017	0.0065
0.117	-0.122	0.039	0.033	-0.1195	0.036	-0.0315	0.0045
0.151	-0.119	0.046	0.033	-0.135	0.0395	-0.0415	0.005
0.152	-0.125	0.046	0.032	-0.1385	0.039	-0.049	0.003
0.151	-0.122	0.045	0.031	-0.1365	0.038	-0.05	0.001
0.164	-0.13	0.05	0.035	-0.147	0.0425	-0.0525	0.0015
0.198	-0.161	0.059	0.042	-0.1795	0.0505	-0.067	0
0.214	-0.192	0.059	0.044	-0.203	0.0515	-0.0785	-0.005
-0.23	-0.205	0.064	0.047	-0.2175	0.0555	-0.082	-0.004
0.279	-0.254	0.074	0.057	-0.2665	0.0655	-0.103	-0.005
0.334	-0.341	0.084	0.063	-0.3375	0.0735	-0.171	-0.01
0.405	-0.397	0.092	0.068	-0.401	0.08	-0.2085	-0.014
0.441	-0.424	0.099	0.075	-0.4325	0.087	-0.222	-0.015
0.568	-0.508	0.121	0.083	-0.538	0.102	-0.2995	-0.02
0.627	-0.687	0.122	0.098	-0.657	0.11	-0.3665	-0.0305
0.772	-0.811	0.137	0.093	-0.7915	0.115	-0.6495	-0.066
0555	-0.390209	-0.001147	-0.010705	-0.335382	-0.005926	-0.380079	-0.070127

Def_apoy

Carga kN	Horem1	Horem 2	Horem 3	AceEmb1	AceEmb2	AceEmb3	Hor-Emb	Ace-Emb
-0.01125	0	0	0	0	0	0	0	0
-0.01125	0	0	0	0	0	0	0	0
0.19125	0	0	0	-0.001	-0.001	0	0	-0.000667
6.01875	0.004	0.003	0.005	-0.007	-0.006	-0.006	0.004	-0.006333
11.30625	0.007	0.007	0.011	-0.013	-0.011	-0.013	0.008333	-0.012333
17.7975	0.013	0.011	0.017	-0.02	-0.017	-0.021	0.013667	-0.019333
21.07125	0.016	0.014	0.021	-0.024	-0.021	-0.026	0.017	-0.023667
26.24625	0.023	0.019	0.027	-0.031	-0.024	-0.033	0.023	-0.029333
31.95	0.032	0.026	0.037	-0.039	-0.031	-0.042	0.031667	-0.037333
36.46125	0.04	0.033	0.044	-0.048	-0.036	-0.051	0.039	-0.045
36.4725	0.043	0.037	0.049	-0.047	-0.039	-0.058	0.043	-0.048
42.40125	0.06	0.05	0.066	-0.062	-0.052	-0.074	0.058667	-0.062667
46.4175	0.069	0.056	0.073	-0.071	-0.06	-0.086	0.066	-0.072333
51.5475	0.079	0.063	0.081	-0.079	-0.068	-0.093	0.074333	-0.08
51.62625	0.085	0.065	0.083	-0.088	-0.074	-0.106	0.077667	-0.089333
55.62	0.091	0.07	0.089	-0.093	-0.08	-0.12	0.083333	-0.097667
60.4575	0.112	0.078	0.092	-0.11	-0.119	-0.533	0.094	-0.254
65.21625	0.127	0.085	0.096	-0.135	-0.175	-0.651	0.102667	-0.320333
70.11	0.147	0.093	0.1	-0.199	-0.353	-0.845	0.113333	-0.465667
74.73375	0.156	0.098	0.106	-0.218	-0.391	-0.892	0.12	-0.500333
79.41375	0.189	0.11	0.119	-1.515	-1.421	-1.748	0.139333	-1.561333
88.56	0.208	0.107	0.121	-2.453	-2.014	-2.279	0.145333	-2.248667
92.84625	0.214	0.101	0.115	-2.924	-2.335	-2.584	0.143333	-2.614333
-0.75375	0.05533	-0.002338	-0.018702	-1.45484	-0.846886	-0.824749	0.01143	-1.042158

7.6 ENSAYO VHA1_B

Carga (kN)	LVDT 2	LVDT 5	Horm-Emb	Gal-fip 6-7	Gal-fip 11-12	Gal-fin 1-2-3
0.00083333	0.002	0	0	0.1225	0	0
1.17916667	0.014	0.072	0.007	0.266	0.006	0.00333333
3.57833333	0.172	0.053	0.01	0.2445	-0.004	-0.01133333
6.02583333	0.274	0.132	0.01133333	0.2255	-0.01	-0.02133333
11.63916667	0.522	0.329	0.01566667	0.171	-0.024	-0.04666667
17.22166667	0.826	0.569	0.02233333	0.0785	-0.0425	-0.08966667
21.44166667	1.098	0.727	0.02766667	-0.0075	-0.0545	-0.12866667
26.7283333	1.48	0.943	0.034	-0.123	-0.07	-0.196
31.1408333	1.81	1.142	0.03966667	-0.204	-0.0855	-0.262
35.99666667	2.264	1.339	0.046	-0.342	-0.1	-0.363
40.6233333	2.808	1.555	0.05133333	-0.6185	-0.1165	-0.547
41.87416667	3.096	1.716	0.05166667	-0.6785	-0.119	-0.624
45.7608333	3.42	1.826	0.058	-0.851	-0.1385	-0.88633333
44.8233333	3.62	1.877	0.05466667	-0.943	-0.1445	-1.363
49.88	4.12	2.174	0.059	-1.08	-0.1675	-1.755
49.11166667	4.25	2.196	0.057	-1.113	-0.172	-1.956
55.3208333	4.854	2.515	0.06333333	-1.243	-0.196	-2.26
60.3183333	5.512	2.815	0.06666667	-1.3935	-0.223	-2.63166667
64.6858333	6.118	3.086	0.07	-1.5675	-0.246	-2.893
70.2825	6.852	3.432	0.07533333	-1.7545	-0.274	-3.279
75.65916667	7.822	3.751	0.07733333	-1.982	-0.3015	-3.32566667
76.0975	8.06	3.809	0.077	-2.076	-0.3105	-3.47566667
79.3225	8.532	4.025	0.07833333	-2.217	-0.33	-3.335
84.89	9.4	4.404	0.082	-2.5315	-0.361	-3.61366667
89.3608333	10.308	4.79	0.083	-2.9045	-0.392	-3.78433333
94.2158333	11.426	5.29	0.08133333	-3.266	-0.4325	-4.33066667
98.36916667	13.192	6.173	0.06066667	-3.7915	-0.4935	-4.43266667
86.205	20.04	12.166	-0.10266667	-4.8035	-1.103	-4.5
0.1625	8.078	4.692	-0.106	-2.0605	-0.364	-4.5
0.345	8	4.661	-0.10666667	-2.034	-0.36	-4.5

Gal-fip 11-12	Gal-fin 1-2-3	R-1 (kN)	R-2 (kN)	R-3 (kN)	Gal-pas 3-4	Gal-pas 7-8
0	0	0	0.025	0	0	0
0.006	0.00333333	0.09726	1.65	-0.933632	0.0025	0
-0.004	-0.01133333	3.89012	7.275	0.700224	0.0165	0.004
-0.01	-0.02133333	6.02968	12.375	1.400448	0.025	0.006
-0.024	-0.04666667	10.98957	24.25	3.034288	0.045	0.0115
-0.0425	-0.08966667	15.56046	37.3	4.901552	0.0725	0.018
-0.0545	-0.12866667	19.40195	47.675	6.301984	0.0905	0.0225
-0.07	-0.196	23.87558	60.875	8.636048	0.1125	0.028
-0.0855	-0.262	27.13355	72.125	11.203536	0.1295	0.0325
-0.1	-0.363	30.97503	84.675	15.17144	0.1495	0.037
-0.1165	-0.547	35.88631	96.375	22.173648	0.1695	0.0415
-0.119	-0.624	37.68548	102.425	24.040912	0.1715	0.042
-0.1385	-0.88633333	40.16543	109.225	28.70904	0.19	0.0485
-0.1445	-1.363	40.31131	106.425	28.475632	0.194	0.0505
-0.1675	-1.755	44.29868	117.8	31.50992	0.212	0.057
-0.172	-1.956	44.10417	115.925	32.67696	0.214	0.058
-0.196	-2.26	48.77231	131.1	37.111696	0.234	0.066
-0.223	-2.63166667	53.24594	143.7	42.480048	0.2525	0.0725
-0.246	-2.893	56.45528	155.1	46.21456	0.268	0.079
-0.274	-3.279	60.24815	168.625	51.349504	0.288	0.087
-0.3015	-3.32566667	64.86765	182.5	56.717872	0.309	0.093
-0.3105	-3.47566667	65.35392	183.625	57.651488	0.313	0.0955
-0.33	-3.335	67.73661	191.275	60.218976	0.3245	0.1005
-0.361	-3.61366667	71.86986	205.375	64.420288	0.3425	0.108
-0.392	-3.78433333	75.41959	216.5	68.621616	0.36	0.1155
-0.4325	-4.33066667	79.01795	227.45	72.356128	0.3785	0.1255
-0.4935	-4.43266667	83.88059	233.65	77.72448	0.401	0.138
-1.103	-4.5	97.00973	166.25	115.069584	0.4005	0.1795
-0.364	-4.5	13.66403	14.125	38.045312	0.051	0.042
-0.36	-4.5	13.6154	13.85	38.27872	0.0495	0.0415

Tfc_pos

Carga kN	FibP 1	FibP 2	FibP 6	FibP 7	fibP 1-2	fibP 6-7
0.00083333	0	0.245	0	0	0.1225	0
1.17916667	0	0.532	0.003	0.009	0.266	0.006
3.57833333	0.017	0.506	0.002	0.006	0.2615	0.004
6.02583333	0.028	0.479	0.005	0.015	0.2535	0.01
11.6391667	0.056	0.398	0.011	0.037	0.227	0.024
17.2216667	0.102	0.259	0.02	0.065	0.1805	0.0425
21.4416667	0.15	0.135	0.025	0.084	0.1425	0.0545
26.7283333	0.22	0.026	0.031	0.109	0.123	0.07
31.1408333	0.275	0.133	0.038	0.133	0.204	0.0855
35.9966667	0.387	0.297	0.044	0.156	0.342	0.1
40.6233333	0.762	0.475	0.051	0.182	0.6185	0.1165
41.8741667	0.837	0.52	0.052	0.186	0.6785	0.119
45.7608333	1.011	0.691	0.06	0.217	0.851	0.1385
44.8233333	1.106	0.78	0.062	0.227	0.943	0.1445
49.88	1.232	0.928	0.071	0.264	1.08	0.1675
49.1116667	1.297	0.929	0.073	0.271	1.113	0.172
55.3208333	1.379	1.107	0.082	0.31	1.243	0.196
60.3183333	1.519	1.268	0.092	0.354	1.3935	0.223
64.6858333	1.696	1.439	0.101	0.391	1.5675	0.246
70.2825	1.901	1.608	0.112	0.436	1.7545	0.274
75.6591667	2.215	1.749	0.124	0.479	1.982	0.3015
76.0975	2.321	1.831	0.131	0.49	2.076	0.3105
79.3225	2.478	1.956	0.14	0.52	2.217	0.33
84.89	2.787	2.276	0.155	0.567	2.5315	0.361
89.3608333	3.148	2.661	0.17	0.614	2.9045	0.392
94.2158333	3.491	3.041	0.19	0.675	3.266	0.4325
98.3691667	4.056	3.527	0.222	0.765	3.7915	0.4935
86.205	4.94	4.667	0.982	1.224	4.8035	1.103
0.1625	2.367	1.754	0.386	0.342	2.0605	0.364
0.345	2.34	1.728	0.383	0.337	2.034	0.36

Tfc_neg

Carga kN	FibN1	FibN2	FibN3	FibN 1-2-3
0.00083333	0	0	0	0
1.17916667	0.003	0.003	0.004	0.00333333
3.57833333	-0.008	-0.01	-0.016	-0.01133333
6.02583333	-0.016	-0.019	-0.029	-0.02133333
11.6391667	-0.036	-0.041	-0.063	-0.04666667
17.2216667	-0.07	-0.078	-0.121	-0.08966667
21.4416667	-0.1	-0.112	-0.174	-0.12866667
26.7283333	-0.154	-0.167	-0.267	-0.196
31.1408333	-0.206	-0.218	-0.362	-0.262
35.9966667	-0.283	-0.291	-0.515	-0.363
40.6233333	-0.401	-0.416	-0.824	-0.547
41.8741667	-0.465	-0.471	-0.936	-0.624
45.7608333	-0.762	-0.672	-1.225	-0.88633333
44.8233333	-1.454	-1.074	-1.561	-1.363
49.88	-1.9	-1.434	-1.931	-1.755
49.1116667	-2.087	-1.598	-2.183	-1.956
55.3208333	-2.353	-1.862	-2.565	-2.26
60.3183333	-2.576	-2.202	-3.117	-2.63166667
64.6858333	-2.8	-2.495	-3.384	-2.893
70.2825	-3.031	-2.813	-3.993	-3.279
75.6591667	-3.025	-3.22	-3.732	-3.32566667
76.0975	-2.923	-3.374	-4.13	-3.47566667
79.3225	-2.936	-3.66	-3.409	-3.335
84.89	-3.003	-3.901	-3.937	-3.61366667
89.3608333	-3.079	-3.736	-4.538	-3.78433333
94.2158333	-3.477	-3.936	-5.579	-4.33066667
98.3691667	-3.248	-3.71	-6.34	-4.43266667
86.205	0.083	-3.7	-6.3	-4.5
0.1625	0.174	-3.7	-6.3	-4.5
0.345	0.171	-3.7	-6.3	-4.5

Lin1_tfc

Carga (kN)	FibP 2(fc7)	FibP 3(fc8)	FibP 4(fc9)	FibP 7(fc12)	FibP 8(fc13)	FibP 9(fc14)
0.00083333	0.245	0	0	0	0	0
1.17916667	0.532	0.024	-0.001	0.009	0.006	0.018
3.57833333	0.506	0.026	-0.033	-0.006	0.005	-0.016
6.02583333	0.479	0.026	-0.053	-0.015	0.005	-0.034
11.6391667	0.398	0.027	-0.104	-0.037	0.006	-0.082
17.2216667	0.259	0.03	-0.167	-0.065	0.005	-0.142
21.4416667	0.135	0.03	-0.218	-0.084	0.006	-0.185
26.7283333	-0.026	0.033	-0.282	-0.109	0.007	-0.246
31.1408333	-0.133	0.037	-0.329	-0.133	0.007	-0.302
35.9966667	-0.297	0.041	-0.383	-0.156	0.008	-0.363
40.6233333	-0.475	0.041	-0.444	-0.182	0.01	-0.427
41.8741667	-0.52	0.04	-0.452	-0.186	0.01	-0.436
45.7608333	-0.691	0.041	-0.511	-0.217	0.009	-0.508
44.8233333	-0.78	0.03	-0.525	-0.227	0.006	-0.51
49.88	-0.928	0.027	-0.586	-0.264	0.003	-0.587
49.1116667	-0.929	0.025	-0.592	-0.271	0.001	-0.589
55.3208333	-1.107	0.027	-0.665	-0.31	-0.001	-0.676
60.3183333	-1.268	0.023	-0.734	-0.354	-0.002	-0.749
64.6858333	-1.439	0.024	-0.796	-0.391	-0.003	-0.817
70.2825	-1.608	0.023	-0.869	-0.436	-0.005	-0.899
75.6591667	-1.749	0.018	-0.945	-0.479	-0.007	-0.973
76.0975	-1.831	0.017	-0.958	-0.49	-0.007	-0.982
79.3225	-1.956	0.012	-1.003	-0.52	-0.01	-1.035
84.89	-2.276	0.007	-1.077	-0.567	-0.017	-1.118
89.3608333	-2.661	-0.001	-1.136	-0.614	-0.026	-1.191
94.2158333	-3.041	-0.017	-1.206	-0.675	-0.039	-1.287
98.3691667	-3.527	-0.073	-1.294	-0.765	-0.056	-1.385
86.205	-4.667	-0.839	-1.474	-1.224	-0.632	-1.607
0.1625	-1.754	-0.454	-0.291	-0.342	-0.382	-0.261
0.345	-1.728	-0.449	-0.286	-0.337	-0.383	-0.258

Lin2_tfc

Carga (kN)	FibP 1(fc6)	FibP 5(fc10)	FibP 6(fc11)	FibP 10(fc15)
0.00083333	0	0	0	0
1.17916667	0	0.001	0.003	0.005
3.57833333	-0.017	0	-0.002	0.004
6.02583333	-0.028	0	-0.005	0.004
11.63916667	-0.056	-0.001	-0.011	0.004
17.22166667	-0.102	-0.002	-0.02	0.003
21.44166667	-0.15	-0.003	-0.025	0.003
26.72833333	-0.22	-0.004	-0.031	0.003
31.14083333	-0.275	-0.005	-0.038	0.002
35.99666667	-0.387	-0.005	-0.044	0.001
40.62333333	-0.762	-0.006	-0.051	0.001
41.87416667	-0.837	-0.007	-0.052	0
45.76083333	-1.011	-0.008	-0.06	0
44.82333333	-1.106	-0.009	-0.062	0.001
49.88	-1.232	-0.009	-0.071	0
49.11166667	-1.297	-0.01	-0.073	0
55.32083333	-1.379	-0.011	-0.082	-0.001
60.31833333	-1.519	-0.012	-0.092	-0.002
64.68583333	-1.696	-0.013	-0.101	-0.002
70.2825	-1.901	-0.014	-0.112	-0.003
75.65916667	-2.215	-0.016	-0.124	-0.004
76.0975	-2.321	-0.016	-0.131	-0.003
79.3225	-2.478	-0.017	-0.14	-0.005
84.89	-2.787	-0.019	-0.155	-0.005
89.36083333	-3.148	-0.021	-0.17	-0.005
94.21583333	-3.491	-0.036	-0.19	-0.006
98.36916667	-4.056	-0.059	-0.222	-0.006
86.205	-4.94	-0.078	-0.982	-0.002
0.1625	-2.367	-0.048	-0.386	0.005
0.345	-2.34	-0.049	-0.383	0.005

7.7 ENSAYO VHA_PE_a

Resum_pe

Carga (kN)	LVDT 2	LVDT 5	Horm-Emb	Gal-fin 1-2-3	Gal-fip 6-7
0	0	0.005	0	0	0
8.318125	0.538	0.262	0.00633333	-0.01233333	-0.021
8.02375	0.548	0.278	0.004	-0.01233333	-0.021
18.03375	1.262	0.821	0.014	-0.03233333	-0.042
17.940625	1.38	0.917	0.01466667	-0.03333333	-0.044
28.650625	2.142	1.394	0.02633333	-0.05733333	-0.063
28.494375	2.234	1.445	0.02733333	-0.05933333	-0.064
38.12625	2.854	2.035	0.041	-0.08566667	-0.076
37.883125	2.94	2.066	0.04033333	-0.08766667	-0.077
46.194375	3.396	2.616	0.05233333	-0.11266667	-0.085
45.855625	3.456	2.686	0.054	-0.115	-0.085
50.649375	3.668	3.06	0.06133333	-0.12933333	-0.089
54.549375	3.894	3.384	0.06766667	-0.143	-0.093
56.065	4.068	3.602	0.071	-0.154	-0.094
58.901875	4.208	3.821	0.07566667	-0.16333333	-0.097
62.500625	4.412	4.162	0.08166667	-0.17766667	-0.1
64.904375	4.63	4.382	0.087	-0.19133333	-0.103
66.77	4.718	4.565	0.09033333	-0.19966667	-0.105
70.99875	4.96	4.944	0.097	-0.216	-0.109
75.27875	6.604	6.077	0.12233333	-0.37766667	-1.255
79.321875	6.876	6.408	0.12866667	-0.41133333	-1.305
80.35	6.996	6.65	0.134	-0.45133333	-1.35
87.44375	7.448	7.19	0.142	-0.521	-1.44
88.25375	7.514	7.339	0.146	-0.54433333	-1.456
93.90625	7.902	7.846	0.15566667	-0.611	-1.534
100.434375	9.218	7.733	0.16933333	-0.72966667	-1.85
107.948125	9.948	8.266	0.18066667	-0.81433333	-1.968
106.191875	9.938	8.174	0.182	-0.88433333	-2.029
119.04625	11.262	8.93	0.206	-1.133	-2.381
119.730625	11.556	9.094	0.211	-1.35733333	-2.459
126.8725	12.372	9.61	0.22466667	-1.56866667	-2.717
136.493125	14.178	10.483	0.25	-2.31033333	-3.16
146.885625	16.592	11.52	0.27033333	-3.12966667	-3.272
156.593125	19.52	12.365	0.287	-4.04166667	-3.56
144.65875	30.292	11.062	0.27566667	-5.232	-3.202
84.721875	-95.294	6.946	-0.00166667	-0.16233333	-2.782
83.243125	-88.83	6.274	-0.03233333	0.03133333	-2.77
13.849375	-88.567	-1.181	0.06666667	0.05033333	-0.653
0.4675	-88.586	-1.421	0.03066667	0.08333333	-0.659

Gal-pas 3-4	Gal-fip 11-12	Gal-pas 7-8	R-1 (kN)	R-2 (kN)	R-3 (kN)
0	0	0	0	0.025	0
0.046	-0.003	0.002	26.98767	12.275	34.71927
0.044	-0.004	-0.003	26.55003	12.25	34.42751
0.095	-0.016	0.007	47.99429	32.4	44.63906
0.1035	-0.017	0.008	47.99429	33.95	45.22258
0.155	-0.03	0.017	69.34128	56.15	71.62673
0.1595	-0.03	0.016	69.14678	57.1	70.167935
0.197	-0.049	0.027	72.84239	77.925	67.10447
0.1995	-0.049	0.026	71.04322	78.9	64.332765
0.223	-0.071	0.036	64.33276	97.15	57.47644
0.2245	-0.072	0.037	63.21436	97.1	55.725885
0.233	-0.09	0.043	57.7682	107.725	51.933025
0.2415	-0.104	0.047	52.51654	116.725	48.286045
0.2465	-0.116	0.048	50.27973	121.175	45.806095
0.2495	-0.128	0.05	46.77863	127.975	43.617905
0.256	-0.149	0.055	48.67505	136.6	41.28384
0.264	-0.161	0.057	50.62011	144.3	50.8360116
0.2665	-0.174	0.06	51.59264	148.725	49.8732102
0.2735	-0.201	0.065	54.12121	159.15	46.9847994
0.293	-0.284	0.075	56.45529	174.4	59.22699
0.299	-0.31	0.079	59.17837	184.675	57.47644
0.3035	-0.341	0.082	59.227	187.925	57.18468
0.321	-0.388	0.091	63.89513	205.525	55.14237
0.325	-0.403	0.094	64.04101	208.1	55.43413
0.336	-0.454	0.099	68.17425	222.45	54.26709
0.3805	-0.44	0.097	74.20393	241.3	69.43854
0.401	-0.482	0.103	79.26108	262.475	73.52316
0.4135	-0.481	0.104	77.21877	257.675	77.31602
0.448	-0.55	0.111	86.36054	289.95	82.56768
0.4525	-0.565	0.113	86.99269	291.8	82.56768
0.4735	-0.613	0.118	92.00121	309.4	85.77702
0.517	-0.7	0.128	99.97594	333.3	94.82154
0.5535	-0.793	0.138	108.24243	359.375	101.24022
0.5955	-0.884	0.151	115.7309	383.125	109.11771
0.623	-0.819	0.16	97.73913	377.425	102.40726
0.5075	-0.358	0.106	53.48907	212.35	44.347305
0.88	-0.31	0.11	41.5756	212.2	44.055545
0.9555	0.059	-0.039	39.67917	49.85	23.632445
0.5905	0.066	-0.061	36.95608	19.6	15.17145

Tabla_resultados.xls

Viga de hormigón armado
Reparada con T.F.C. + refuerzo con pretensado exterior

Escalón de carga Tm	Reacción R-1 Tm	Reacción R-2 Tm	Reacción R-3 Tm	Flecha Cl_a mts.	Flecha Cl_b mts.
0	0	0	0	0	0
0	4.24E+00	1.14E+00	4.24E+00	2.00E-04	1.71E-04
-5.00E+00	8.18E+00	1.33E+01	8.18E+00	-6.74E-04	-3.73E-04
-5.00E+00	1.14E+01	2.69E+01	1.14E+01	-1.79E-03	-1.02E-03
-4.00E+00	1.49E+01	3.58E+01	1.49E+01	-1.66E-02	-1.88E-03
-4.00E+00	1.76E+01	4.65E+01	1.76E+01	-3.30E-02	-6.58E-03
-2.50E+00	1.93E+01	5.31E+01	1.93E+01	-4.55E-02	-9.91E-03
-1.50E+00	2.03E+01	5.70E+01	2.03E+01	-5.39E-02	-1.16E-02

Carga Tm	Reacción R-1 Tm	Reacción R-2 Tm	Reacción R-3 Tm	Flecha Cl_a mts.	Flecha Cl_b mts.
0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
-5.00E+00	3.94E+00	1.21E+01	3.94E+00	8.74E-04	5.44E-04
-1.00E+01	7.15E+00	2.57E+01	7.15E+00	1.99E-03	1.19E-03
-1.40E+01	1.07E+01	3.47E+01	1.07E+01	1.68E-02	2.05E-03
-1.80E+01	1.33E+01	4.53E+01	1.33E+01	3.32E-02	6.75E-03
-2.05E+01	1.50E+01	5.20E+01	1.50E+01	4.57E-02	1.01E-02
-2.20E+01	1.60E+01	5.59E+01	1.61E+01	5.41E-02	1.17E-02

Carga kN	Reacción R-1 kN	Reacción R-2 kN	Reacción R-3 kN	Flecha Cl_a mm.	Flecha Cl_b mm.
0	0	0	0	0.00E+00	0.00E+00
-50	39.414098	121.171633	39.414273	8.74E-01	5.44E-01
-100	71.461709	257.076353	71.461938	1.99E+00	1.19E+00
-140	106.663689	346.669783	106.666528	1.68E+01	2.05E+00
-180	133.315099	453.364343	133.320568	3.32E+01	6.75E+00
-205	150.205289	519.580563	150.214158	4.57E+01	1.01E+01
-220	160.496849	558.992793	160.510358	5.41E+01	1.17E+01

Viga de hormigón armado

Reparada con T.F.C. + refuerzo con pretensado exterior

Escalón de carga Tm	Deformación		Tensiones (tm/m2)				
	Apoyo Int.	Sup	Apoyo Int.	Inf	tramo 1	tramo 2	tramo 3
0	0	0	0	0	0	0	0
0	-5.92E-05	-3.95E-05	1.35E+05	1.36E+05	1.31E+05	1.75E+05	1.75E+05
-5.00E+00	-6.27E-06	-1.33E-04	1.75E+05	1.75E+05	1.75E+05	1.75E+05	1.75E+05
-5.00E+00	7.29E-05	-2.26E-04	1.75E+05	1.75E+05	1.75E+05	1.75E+05	1.75E+05
-4.00E+00	2.48E-03	-4.03E-04	1.75E+05	1.76E+05	1.75E+05	1.75E+05	1.75E+05
-4.00E+00	5.58E-03	-5.92E-04	1.76E+05	1.78E+05	1.75E+05	1.75E+05	1.75E+05
-2.50E+00	7.88E-03	-6.92E-04	1.76E+05	1.79E+05	1.75E+05	1.75E+05	1.75E+05
-1.50E+00	9.30E-03	-7.51E-04	1.77E+05	1.79E+05	1.76E+05	1.76E+05	1.76E+05

Carga Tm	Deformación		Tensiones (tm/m2)				
	Apoyo Int.	Sup	Apoyo Int.	Inf	tramo 1	tramo 2	tramo 3
0	0.00E+00	0.00E+00	1.35E+05	1.36E+05	1.31E+05	1.75E+05	1.75E+05
-5.00E+00	5.29E-05	-9.33E-05	1.75E+05	1.75E+05	1.75E+05	1.75E+05	1.75E+05
-1.00E+01	1.32E-04	-1.87E-04	1.75E+05	1.75E+05	1.75E+05	1.75E+05	1.75E+05
-1.40E+01	2.54E-03	-3.64E-04	1.75E+05	1.76E+05	1.75E+05	1.75E+05	1.75E+05
-1.80E+01	5.64E-03	-5.53E-04	1.76E+05	1.78E+05	1.75E+05	1.75E+05	1.75E+05
-2.05E+01	7.94E-03	-6.52E-04	1.76E+05	1.79E+05	1.75E+05	1.75E+05	1.75E+05
-2.20E+01	9.36E-03	-7.11E-04	1.77E+05	1.79E+05	1.76E+05	1.76E+05	1.76E+05

Carga kN	Micro def.	Micro def.	Tensiones (Kp/cm2)		
	T.F.C.	Hormigón sup	A. Activo	tramo 2	A. Pasivo
0	0.00E+00	0.00E+00	1.35E+04	1.36E+04	1.31E+04
-50	5.29E-02	-9.33E-02	1.75E+04	1.75E+04	1.75E+04
-100	1.32E-01	-1.87E-01	1.75E+04	1.75E+04	1.75E+04
-140	2.54E+00	-3.64E-01	1.75E+04	1.76E+04	1.75E+04
-180	5.64E+00	-5.53E-01	1.76E+04	1.78E+04	1.75E+04
-205	7.94E+00	-6.52E-01	1.76E+04	1.79E+04	1.75E+04
-220	9.36E+00	-7.11E-01	1.77E+04	1.79E+04	1.76E+04

Def_cla

Carga (kN)	Ghorm1	Ghorm2	Ghorm3	Ghorm4	Ghorm5	Ghorm6	FibP 1(fc6)	FibP 2(fc7)	Gacer3
0.0000	0	0	-0.004	0	0	-0.001	0	-0.048	0
8.3181	0.004	0.007	0.011	0.041	0.008	0.039	-0.021	-2.926	0.034
8.0238	0.001	0.005	-0.018	0.039	0.004	0.033	-0.021	-12.626	0.031
18.0338	0.004	0.012	0.004	0.081	0.011	0.065	-0.042	-1.039	0.066
17.9406	0.007	0.014	-0.023	0.086	0.014	0.067	-0.044	5.212	0.073
28.6506	0.006	0.013	0.009	0.129	0.02	0.093	-0.063	5.363	0.106
28.4944	0.005	0.014	0.015	0.133	0.019	0.095	-0.064	5.729	0.11
38.1263	0	0.008	0.038	0.162	0.02	0.106	-0.076	5.75	0.13
37.8831	0	0.009	0.023	0.166	0.021	0.102	-0.077	0.74	0.132
46.1944	-0.006	0.001	0.03	0.184	0.016	0.114	-0.085	-4.253	0.142
45.8556	-0.007	0.001	0.018	0.186	0.016	0.113	-0.085	6.72	0.143
50.6494	-0.01	-0.002	0.022	0.194	0.011	0.116	-0.089	6.698	0.145
54.5494	-0.013	-0.008	0.018	0.199	0.007	0.116	-0.093	6.716	0.147
56.0650	-0.018	-0.013	0	0.203	0	0.115	-0.094	6.669	0.146
58.9019	-0.02	-0.015	0	0.206	-0.003	0.117	-0.097	6.662	0.146
62.5006	-0.024	-0.021	-0.004	0.21	-0.011	0.119	-0.1	6.631	0.146
64.9044	-0.028	-0.025	-0.011	0.215	-0.016	0.126	-0.103	6.449	0.151
66.7700	-0.03	-0.026	-0.009	0.217	-0.019	0.124	-0.105	6.424	0.151
70.9988	-0.035	-0.031	-0.011	0.221	-0.028	0.128	-0.109	6.395	0.153
75.2788	-0.323	-0.503	-0.13	0.131	-0.143	0.05	-1.255	5.085	0.129
79.3219	-0.347	-0.518	-0.141	0.128	-0.152	0.052	-1.305	-6.14	0.133
80.3500	-0.374	-0.531	-0.182	0.123	-0.164	0.043	-1.35	-9.248	0.133
87.4438	-0.435	-0.562	-0.211	0.116	-0.185	0.039	-1.44	7.167	0.15
88.2538	-0.447	-0.567	-0.225	0.115	-0.188	0.041	-1.456	7.205	0.153
93.9063	-0.505	-0.595	-0.247	0.107	-0.206	0.036	-1.534	7.131	0.164
100.4344	-0.583	-0.786	-0.323	0.1	-0.238	0.017	-1.85	6.886	0.176
107.9481	-0.651	-0.88	-0.365	0.089	-0.255	0.01	-1.968	6.521	0.194
106.1919	-0.672	-1.149	-0.388	0.083	-0.261	0.005	-2.029	6.349	0.2
119.0463	-0.805	125	-0.559	0.03	-0.321	-0.042	-2.381	6.035	0.222
119.7306	-0.845	125	-0.654	0.004	-0.331	-0.056	-2.459	5.93	0.225
126.8725	-0.929	125	-0.718	-0.027	-0.351	-0.071	-2.717	5.715	0.24
136.4931	-1.154	125	-0.874	-0.133	-0.406	-0.136	-3.16	5.133	0.263
146.8856	125	125	-1.129	-0.376	-0.499	-0.283	-3.272	4.754	0.279
156.5931	125	125	-1.44	-0.761	-0.624	-0.477	-3.56	4.519	0.297
144.6588	125	125	125	125	125	125	0.202	4.071	0.319
84.7219	125	125	125	125	125	125	0.782	8.541	0.54
83.2431	125	125	125	125	125	125	0.77	8.583	-0.36
13.8494	125	125	125	125	125	125	0.653	8.548	0.334
0.4675	125	125	125	125	125	125	0.659	8.694	0.351

Carga (kN)	Gacer4	Gal-pas 34(57)	Gal-fip 67 (0)	GHorm12 (35)	GHorm34 (48)	GHorm56 (50)
0	0	0	0	0	-0.004	0
8.318125	0.058	0.046	-0.021	0.0055	0.011	0.008
8.02375	0.057	0.044	-0.021	0.003	-0.018	0.004
18.03375	0.124	0.095	-0.042	0.008	0.004	0.011
17.940625	0.134	0.1035	-0.044	0.0105	-0.023	0.014
28.650625	0.204	0.155	-0.063	0.0095	0.009	0.02
28.494375	0.209	0.1595	-0.064	0.0095	0.015	0.019
38.12625	0.264	0.197	-0.076	0.004	0.038	0.02
37.883125	0.267	0.1995	-0.077	0.0045	0.023	0.021
46.194375	0.304	0.223	-0.085	-0.0025	0.03	0.016
45.855625	0.306	0.2245	-0.085	-0.003	0.018	0.016
50.649375	0.321	0.233	-0.089	-0.006	0.022	0.011
54.549375	0.336	0.2415	-0.093	-0.0105	0.018	0.007
56.065	0.347	0.2465	-0.094	-0.0155	0	0
58.901875	0.353	0.2495	-0.097	-0.0175	0	-0.003
62.500625	0.366	0.256	-0.1	-0.0225	-0.004	-0.011
64.904375	0.377	0.264	-0.103	-0.0265	-0.011	-0.016
66.77	0.382	0.2665	-0.105	-0.028	-0.009	-0.019
70.99875	0.394	0.2735	-0.109	-0.033	-0.011	-0.028
75.27875	0.457	0.293	-1.255	-0.413	-0.13	-0.143
79.321875	0.465	0.299	-1.305	-0.4325	-0.141	-0.152
80.35	0.474	0.3035	-1.35	-0.4525	-0.182	-0.164
87.44375	0.492	0.321	-1.44	-0.4985	-0.211	-0.185
88.25375	0.497	0.325	-1.456	-0.507	-0.225	-0.188
93.90625	0.508	0.336	-1.534	-0.55	-0.247	-0.206
100.434375	0.585	0.3805	-1.85	-0.6845	-0.323	-0.238
107.948125	0.608	0.401	-1.968	-0.7655	-0.365	-0.255
106.191875	0.627	0.4135	-2.029	-0.9105	-0.388	-0.261
119.04625	0.674	0.448	-2.381	-0.805	-0.559	-0.321
119.730625	0.68	0.4525	-2.459	-0.845	-0.654	-0.331
126.8725	0.707	0.4735	-2.717	-0.929	-0.718	-0.351
136.493125	0.771	0.517	-3.16	-1.154	-0.874	-0.406
146.885625	0.828	0.5535	-3.272	125	-1.129	-0.499
156.593125	0.894	0.5955	-3.56	125	-1.44	-0.624
144.65875	0.927	0.623	0.202	125	125	125
84.721875	0.075	0.3075	0.782	125	125	125
83.243125	0.536	0.088	0.77	125	125	125
13.849375	1.577	0.9555	0.653	125	fc7 no se incluye en la media	
0.4675	0.83	0.5905	0.659	125	GH4 y GH6 no se han utilizad	

Def_clb

Carga (kN)	Ghorm7	Ghorm8	Ghorm9	Ghorm10	Ghorm11	Ghorm12	Gacer5	Gacer6	Gacer7
0	-0.001	0	0	0	-0.001	0	0	0	-0.001
8.318125	-0.002	-0.006	0.003	0	0.001	0	-0.008	-0.011	0.009
8.02375	-0.007	-0.011	0.002	-0.005	-0.005	-0.004	-0.013	-0.015	0
18.03375	-0.011	-0.021	0.003	-0.004	-0.002	0.002	-0.029	-0.035	0.01
17.940625	-0.012	-0.024	0.003	-0.004	-0.002	0.001	-0.032	-0.038	-0.004
28.650625	-0.018	-0.036	0.004	-0.004	-0.001	0.005	-0.05	-0.059	0.006
28.494375	-0.017	-0.038	0.005	-0.003	-0.001	0.005	-0.051	-0.06	0.006
38.12625	-0.023	-0.054	0.007	-0.003	0.003	0.008	-0.077	-0.09	0.021
37.883125	-0.023	-0.056	0.008	-0.003	0.003	0.007	-0.077	-0.091	0.023
46.194375	-0.029	-0.073	0.011	-0.003	0.007	0.01	-0.105	-0.122	0.037
45.855625	-0.03	-0.077	0.012	-0.003	0.007	0.01	-0.107	-0.126	0.04
50.649375	-0.034	-0.093	0.013	-0.003	0.01	0.011	-0.129	-0.149	0.049
54.549375	-0.039	-0.123	0.014	-0.003	0.011	0.012	-0.149	-0.17	0.057
56.065	-0.045	-0.196	0.015	-0.006	0.009	0.01	-0.166	-0.187	0.052
58.901875	-0.049	-0.28	0.016	-0.006	0.01	0.01	-0.181	-0.203	-1.344
62.500625	-0.055	-1.096	0.016	-0.007	0.011	0.009	-0.206	-0.229	-1.3
64.904375	-0.059	-1.491	0.017	-0.006	0.013	0.01	-0.221	-0.243	-2.112
66.77	-0.062	-6.849	0.017	-0.007	0.013	0.009	-0.237	-0.259	-2.088
70.99875	-0.069	-41.923	0.015	-0.008	0.013	0.007	-0.266	-0.287	-2.072
75.27875	-0.098	125	0.003	-0.014	0.008	-0.001	-0.352	-0.368	-1.895
79.321875	-0.105	125	0.003	-0.014	0.009	-0.002	-0.379	-0.391	-1.88
80.35	-0.112	125	-0.001	-0.015	0.009	-0.003	-0.409	-0.416	-1.822
87.44375	-0.123	125	-0.027	-0.035	-0.009	-0.024	-0.456	-0.458	-1.785
88.25375	-0.127	125	-0.044	-0.035	-0.008	-0.023	-0.47	-0.469	-1.771
93.90625	-0.14	125	-0.047	-0.036	-0.008	-0.026	-0.517	-0.513	-1.758
100.434375	-0.124	125	-0.049	-0.035	-0.009	-0.024	-0.511	-0.5	-1.75
107.948125	-0.134	125	-0.049	-0.037	-0.008	-0.026	-0.553	-0.537	-1.737
106.191875	-0.134	125	-0.051	-0.038	-0.01	-0.026	-0.564	-0.545	-1.723
119.04625	-0.166	125	-0.05	-0.04	-0.01	-0.029	-0.623	-0.598	-1.708
119.730625	-0.169	125	-0.052	-0.041	-0.012	-0.03	-0.637	-0.611	-1.702
126.8725	-0.178	125	-0.052	-0.042	-0.012	-0.032	-0.678	-0.649	-1.692
136.493125	-0.196	125	-0.053	-0.042	-0.013	-0.034	-0.755	-0.719	-1.671
146.885625	-0.218	125	-0.054	-0.042	-0.014	-0.035	-0.821	-0.78	-1.653
156.593125	-0.315	125	-0.054	-0.042	-0.016	-0.036	-0.911	-0.865	-1.634
144.65875	125	125	-0.057	-0.062	-0.038	-0.049	-0.979	-0.933	-1.612
84.721875	-0.63	125	-0.034	-0.034	0.005	0.005	-0.419	-0.429	-3.584
83.243125	-0.615	125	0.002	-0.009	0.035	0.031	-0.389	-0.405	-3.526
13.849375	-0.483	-0.507	-0.026	-0.025	-0.018	-0.042	0.071	0.077	-3.497
0.4675	-0.499	-0.478	-0.028	-0.029	-0.023	-0.062	0.083	0.085	-3.439

Carga (kN)	Gacer8	FibP 6 (fc11)	FibP 7 (fc12)	Gal-pas 5-6 (3)	Gal-pas 7-8 (57)	GHorm78 (35)
0	0	0	0.001	0	-0.0005	-0.0005
8.318125	0.002	-0.003	-0.011	-0.0095	0.002	-0.004
8.02375	-0.003	-0.004	-0.008	-0.014	-0.003	-0.009
18.03375	0.007	-0.016	-0.034	-0.032	0.007	-0.016
17.940625	0.008	-0.017	-0.037	-0.035	0.008	-0.018
28.650625	0.017	-0.03	-0.065	-0.0545	0.017	-0.027
28.494375	0.016	-0.03	-0.062	-0.0555	0.016	-0.0275
38.12625	0.027	-0.049	-0.105	-0.0835	0.027	-0.0385
37.883125	0.026	-0.049	-0.103	-0.084	0.026	-0.0395
46.194375	0.036	-0.071	-0.144	-0.1135	0.036	-0.051
45.855625	0.037	-0.072	-0.144	-0.1165	0.037	-0.0535
50.649375	0.043	-0.09	-0.174	-0.139	0.043	-0.0635
54.549375	0.047	-0.104	-0.196	-0.1595	0.047	-0.081
56.065	0.048	-0.116	-0.216	-0.1765	0.048	-0.1205
58.901875	0.05	-0.128	-0.233	-0.192	0.05	-0.1645
62.500625	0.055	-0.149	-0.266	-0.2175	0.055	-0.5755
64.904375	0.057	-0.161	-0.281	-0.232	0.057	-0.775
66.77	0.06	-0.174	-0.299	-0.248	0.06	125
70.99875	0.065	-0.201	-0.329	-0.2765	0.065	125
75.27875	0.075	-0.284	-0.413	-0.36	0.075	125
79.321875	0.079	-0.31	-0.435	-0.385	0.079	125
80.35	0.082	-0.341	-0.466	-0.4125	0.082	125
87.44375	0.091	-0.388	-0.513	-0.457	0.091	125
88.25375	0.094	-0.403	-0.525	-0.4695	0.094	125
93.90625	0.099	-0.454	-0.574	-0.515	0.099	125
100.434375	0.097	-0.44	-0.558	-0.5055	0.097	125
107.948125	0.103	-0.482	-0.599	-0.545	0.103	125
106.191875	0.104	-0.481	-0.596	-0.5545	0.104	125
119.04625	0.111	-0.55	-0.665	-0.6105	0.111	125
119.730625	0.113	-0.565	-0.68	-0.624	0.113	125
126.8725	0.118	-0.613	-0.727	-0.6635	0.118	125
136.493125	0.128	-0.7	-0.804	-0.737	0.128	125
146.885625	0.138	-0.793	-0.893	-0.8005	0.138	125
156.593125	0.151	-0.884	-0.97	-0.888	0.151	125
144.65875	0.16	-0.819	-0.89	-0.956	0.16	125
84.721875	0.106	-0.358	-0.473	-0.424	0.106	125
83.243125	0.11	-0.31	-0.419	-0.397	0.11	125
13.849375	-0.039	0.059	0.156	0.074	-0.039	125
0.4675	-0.061	0.066	0.168	0.084	-0.061	125

Def_apoy

Carga (kN)	Horem 1	Horem 2	Horem 3	FibN 1	FibN 2	FibN 3	Horm-Emb	Gal-fin 1-2-3
0	0	0	0	0	0	0	0	0
8.318125	0.007	0.005	0.007	-0.01	-0.012	-0.015	0.00633333	-0.01233333
8.02375	0.004	0.003	0.005	-0.01	-0.012	-0.015	0.004	-0.01233333
18.03375	0.015	0.01	0.017	-0.027	-0.032	-0.038	0.014	-0.03233333
17.940625	0.016	0.011	0.017	-0.027	-0.033	-0.04	0.01466667	-0.03333333
28.650625	0.028	0.02	0.031	-0.046	-0.057	-0.069	0.02633333	-0.05733333
28.494375	0.029	0.021	0.032	-0.047	-0.059	-0.072	0.02733333	-0.05933333
38.12625	0.044	0.031	0.048	-0.068	-0.085	-0.104	0.041	-0.08566667
37.883125	0.043	0.031	0.047	-0.069	-0.087	-0.107	0.04033333	-0.08766667
46.194375	0.057	0.04	0.06	-0.089	-0.112	-0.137	0.05233333	-0.11266667
45.855625	0.058	0.042	0.062	-0.091	-0.114	-0.14	0.054	-0.115
50.649375	0.067	0.047	0.07	-0.103	-0.128	-0.157	0.06133333	-0.12933333
54.549375	0.074	0.052	0.077	-0.115	-0.141	-0.173	0.06766667	-0.143
56.065	0.078	0.054	0.081	-0.124	-0.153	-0.185	0.071	-0.154
58.901875	0.083	0.058	0.086	-0.132	-0.162	-0.196	0.07566667	-0.16333333
62.500625	0.091	0.062	0.092	-0.146	-0.175	-0.212	0.08166667	-0.17766667
64.904375	0.097	0.065	0.099	-0.158	-0.189	-0.227	0.087	-0.19133333
66.77	0.101	0.068	0.102	-0.166	-0.197	-0.236	0.09033333	-0.19966667
70.99875	0.109	0.073	0.109	-0.182	-0.212	-0.254	0.097	-0.216
75.27875	0.136	0.094	0.137	-0.311	-0.372	-0.45	0.12233333	-0.37766667
79.321875	0.144	0.099	0.143	-0.344	-0.402	-0.488	0.12866667	-0.41133333
80.35	0.151	0.103	0.148	-0.385	-0.438	-0.531	0.134	-0.45133333
87.44375	0.15	0.114	0.162	-0.46	-0.498	-0.605	0.142	-0.521
88.25375	0.155	0.117	0.166	-0.485	-0.519	-0.629	0.146	-0.54433333
93.90625	0.168	0.124	0.175	-0.559	-0.576	-0.698	0.15566667	-0.611
100.434375	0.184	0.135	0.189	-0.687	-0.676	-0.826	0.16933333	-0.72966667
107.948125	0.198	0.144	0.2	-0.777	-0.747	-0.919	0.18066667	-0.81433333
106.191875	0.2	0.145	0.201	-0.83	-0.811	-1.012	0.182	-0.88433333
119.04625	0.23	0.163	0.225	-1.083	-1.005	-1.311	0.206	-1.133
119.730625	0.236	0.167	0.23	-1.272	-1.28	-1.52	0.211	-1.35733333
126.8725	0.254	0.177	0.243	-1.499	-1.456	-1.751	0.22466667	-1.56866667
136.493125	0.291	0.193	0.266	-2.456	-2.161	-2.314	0.25	-2.31033333
146.885625	0.327	0.204	0.28	-3.565	-2.914	-2.91	0.27033333	-3.12966667
156.593125	0.362	0.208	0.291	-4.862	-3.668	-3.595	0.287	-4.04166667
144.65875	0.361	0.178	0.288	-5.042	-6.108	-4.546	0.27566667	-5.232
84.721875	0.19	-0.104	-0.091	-0.044	0.115	-0.558	-0.00166667	-0.16233333
83.243125	0.178	125	-0.275	-0.049	0.137	0.006	-0.03233333	0.03133333
13.849375	0.258	125	-0.058	-0.047	0.133	0.065	0.06666667	0.05033333
0.4675	0.122	125	-0.03	-0.032	0.155	0.127	0.03066667	0.08333333

Tfc_pos

Carga kN	FibP 1 (fc6)	FibP 2 (fc7)	FibP 6 (fc11)	FibP 7 (fc12)	fibP 1-2 (fc 67)	fibP 6-7 (fc 1112)
0	0	-0.048	0	0.001	-0.024	0.0005
8.318125	-0.021	-2.926	-0.003	-0.011	-1.4735	-0.007
8.02375	-0.021	-12.626	-0.004	-0.008	-6.3235	-0.006
18.03375	-0.042	-1.039	-0.016	-0.034	-0.5405	-0.025
17.940625	-0.044	5.212	-0.017	-0.037	2.584	-0.027
28.650625	-0.063	5.363	-0.03	-0.065	2.65	-0.0475
28.494375	-0.064	5.729	-0.03	-0.062	2.8325	-0.046
38.12625	-0.076	5.75	-0.049	-0.105	2.837	-0.077
37.883125	-0.077	0.74	-0.049	-0.103	0.3315	-0.076
46.194375	-0.085	-4.253	-0.071	-0.144	-2.169	-0.1075
45.855625	-0.085	6.72	-0.072	-0.144	3.3175	-0.108
50.649375	-0.089	6.698	-0.09	-0.174	3.3045	-0.132
54.549375	-0.093	6.716	-0.104	-0.196	3.3115	-0.15
56.065	-0.094	6.669	-0.116	-0.216	3.2875	-0.166
58.901875	-0.097	6.662	-0.128	-0.233	3.2825	-0.1805
62.500625	-0.1	6.631	-0.149	-0.266	3.2655	-0.2075
64.904375	-0.103	6.449	-0.161	-0.281	3.173	-0.221
66.77	-0.105	6.424	-0.174	-0.299	3.1595	-0.2365
70.99875	-0.109	6.395	-0.201	-0.329	3.143	-0.265
75.27875	-1.255	5.085	-0.284	-0.413	1.915	-0.3485
79.321875	-1.305	-6.14	-0.31	-0.435	-3.7225	-0.3725
80.35	-1.35	-9.248	-0.341	-0.466	-5.299	-0.4035
87.44375	-1.44	7.167	-0.388	-0.513	2.8635	-0.4505
88.25375	-1.456	7.205	-0.403	-0.525	2.8745	-0.464
93.90625	-1.534	7.131	-0.454	-0.574	2.7985	-0.514
100.434375	-1.85	6.886	-0.44	-0.558	2.518	-0.499
107.948125	-1.968	6.521	-0.482	-0.599	2.2765	-0.5405
106.191875	-2.029	6.349	-0.481	-0.596	2.16	-0.5385
119.04625	-2.381	6.035	-0.55	-0.665	1.827	-0.6075
119.730625	-2.459	5.93	-0.565	-0.68	1.7355	-0.6225
126.8725	-2.717	5.715	-0.613	-0.727	1.499	-0.67
136.493125	-3.16	5.133	-0.7	-0.804	0.9865	-0.752
146.885625	-3.272	4.754	-0.793	-0.893	0.741	-0.843
156.593125	-3.56	4.519	-0.884	-0.97	0.4795	-0.927
144.65875	0.202	4.071	-0.819	-0.89	2.1365	-0.8545
84.721875	0.782	8.541	-0.358	-0.473	4.6615	-0.4155
83.243125	0.77	8.583	-0.31	-0.419	4.6765	-0.3645
13.849375	0.653	8.548	0.059	0.156	4.6005	0.1075
0.4675	0.659	8.694	0.066	0.168	4.6765	0.117
	se toma solo fc6 para el promedio de fc6 y fc7					

Tfc_neg

Carga kN	FibN1	FibN2	FibN3	FibN 1-2-3
0	0	0	0	0
8.318125	-0.01	-0.012	-0.015	-0.01233333
8.02375	-0.01	-0.012	-0.015	-0.01233333
18.03375	-0.027	-0.032	-0.038	-0.03233333
17.940625	-0.027	-0.033	-0.04	-0.03333333
28.650625	-0.046	-0.057	-0.069	-0.05733333
28.494375	-0.047	-0.059	-0.072	-0.05933333
38.12625	-0.068	-0.085	-0.104	-0.08566667
37.883125	-0.069	-0.087	-0.107	-0.08766667
46.194375	-0.089	-0.112	-0.137	-0.11266667
45.855625	-0.091	-0.114	-0.14	-0.115
50.649375	-0.103	-0.128	-0.157	-0.12933333
54.549375	-0.115	-0.141	-0.173	-0.143
56.065	-0.124	-0.153	-0.185	-0.154
58.901875	-0.132	-0.162	-0.196	-0.16333333
62.500625	-0.146	-0.175	-0.212	-0.17766667
64.904375	-0.158	-0.189	-0.227	-0.19133333
66.77	-0.166	-0.197	-0.236	-0.19966667
70.99875	-0.182	-0.212	-0.254	-0.216
75.27875	-0.311	-0.372	-0.45	-0.37766667
79.321875	-0.344	-0.402	-0.488	-0.41133333
80.35	-0.385	-0.438	-0.531	-0.45133333
87.44375	-0.46	-0.498	-0.605	-0.521
88.25375	-0.485	-0.519	-0.629	-0.54433333
93.90625	-0.559	-0.576	-0.698	-0.611
100.434375	-0.687	-0.676	-0.826	-0.72966667
107.948125	-0.777	-0.747	-0.919	-0.81433333
106.191875	-0.83	-0.811	-1.012	-0.88433333
119.04625	-1.083	-1.005	-1.311	-1.133
119.730625	-1.272	-1.28	-1.52	-1.35733333
126.8725	-1.499	-1.456	-1.751	-1.56866667
136.493125	-2.456	-2.161	-2.314	-2.31033333
146.885625	-3.565	-2.914	-2.91	-3.12966667
156.593125	-4.862	-3.668	-3.595	-4.04166667
144.65875	-5.042	-6.108	-4.546	-5.232
84.721875	-0.044	0.115	-0.558	-0.16233333
83.243125	-0.049	0.137	0.006	0.03133333
13.849375	-0.047	0.133	0.065	0.05033333
0.4675	-0.032	0.155	0.127	0.08333333

Lin1_tfc

Carga (kN)	FibP 2(fc7)	FibP 3(fc8)	FibP 4(fc9)	FibP 7(fc12)	FibP 8(fc13)	FibP 9(fc14)
0	-0.048	0	0	0.001	0	0
8.318125	-2.926	-0.018	-0.029	-0.011	-0.007	-0.012
8.02375	-12.626	-0.018	-0.032	-0.008	-0.002	-0.018
18.03375	-1.039	-0.039	-0.083	-0.034	-0.011	-0.042
17.940625	5.212	-0.037	-0.09	-0.037	-0.011	-0.045
28.650625	5.363	-0.059	-0.177	-0.065	-0.029	-0.076
28.494375	5.729	-0.059	-0.185	-0.062	-0.032	-0.078
38.12625	5.75	-0.063	-0.268	-0.105	-0.052	-0.125
37.883125	0.74	-0.065	-0.277	-0.103	-0.055	-0.125
46.194375	-4.253	-0.063	-0.342	-0.144	-0.07	-0.178
45.855625	6.72	-0.058	-0.346	-0.144	-0.073	-0.181
50.649375	6.698	-0.054	-0.379	-0.174	-0.081	-0.222
54.549375	6.716	-0.053	-0.411	-0.196	-0.087	-0.257
56.065	6.669	-0.047	-0.431	-0.216	-0.09	-0.283
58.901875	6.662	-0.046	-0.455	-0.233	-0.094	-0.312
62.500625	6.631	-0.039	-0.487	-0.266	-0.1	-0.354
64.904375	6.449	-0.035	-0.517	-0.281	-0.109	-0.379
66.77	6.424	-0.034	-0.532	-0.299	-0.111	-0.404
70.99875	6.395	-0.031	-0.57	-0.329	-0.118	-0.451
75.27875	5.085	-0.027	-0.605	-0.413	-0.185	-0.562
79.321875	-6.14	-0.026	-0.64	-0.435	-0.191	-0.608
80.35	-9.248	-0.018	-0.661	-0.466	-0.195	-0.645
87.44375	7.167	-0.009	-0.722	-0.513	-0.207	-0.728
88.25375	7.205	-0.005	-0.73	-0.525	-0.208	-0.75
93.90625	7.131	0.004	-0.784	-0.574	-0.215	-0.828
100.434375	6.886	-0.006	-0.955	-0.558	-0.242	-0.842
107.948125	6.521	0.002	-1.036	-0.599	-0.254	-0.924
106.191875	6.349	0.003	-1.05	-0.596	-0.257	-0.922
119.04625	6.035	0.004	-1.222	-0.665	-0.28	-1.061
119.730625	5.93	0.003	-1.248	-0.68	-0.284	-1.085
126.8725	5.715	0.005	-1.338	-0.727	-0.294	-1.165
136.493125	5.133	-0.005	-1.508	-0.804	-0.306	-1.293
146.885625	4.754	-0.008	-1.66	-0.893	-0.321	-1.436
156.593125	4.519	-0.015	-1.815	-0.97	-0.338	-1.57
144.65875	4.071	0.194	-1.283	-0.89	-0.403	-1.445
84.721875	8.541	0.106	-0.579	-0.473	-0.381	-0.688
83.243125	8.583	0.168	-0.441	-0.419	-0.413	-0.627
13.849375	8.548	0.416	0.033	0.156	-0.572	0.101
0.4675	8.694	0.386	0.122	0.168	-0.495	0.153

Lin2_tfc

Carga (kN)	FibP 1(fc6)	FibP 5(fc10)	FibP 6(fc11)	FibP 10(fc15)
0	0	0	0	-0.001
8.318125	-0.021	-0.001	-0.003	0.001
8.02375	-0.021	-0.004	-0.004	-0.008
18.03375	-0.042	-0.004	-0.016	-0.007
17.940625	-0.044	-0.004	-0.017	-0.008
28.650625	-0.063	-0.007	-0.03	-0.008
28.494375	-0.064	-0.007	-0.03	-0.008
38.12625	-0.076	-0.009	-0.049	-0.007
37.883125	-0.077	-0.01	-0.049	-0.007
46.194375	-0.085	-0.012	-0.071	-0.006
45.855625	-0.085	-0.01	-0.072	-0.005
50.649375	-0.089	-0.011	-0.09	-0.005
54.549375	-0.093	-0.012	-0.104	-0.005
56.065	-0.094	-0.012	-0.116	-0.011
58.901875	-0.097	-0.013	-0.128	-0.011
62.500625	-0.1	-0.013	-0.149	-0.012
64.904375	-0.103	-0.014	-0.161	-0.009
66.77	-0.105	-0.014	-0.174	-0.009
70.99875	-0.109	-0.015	-0.201	-0.008
75.27875	-1.255	-0.017	-0.284	-0.012
79.321875	-1.305	-0.019	-0.31	-0.013
80.35	-1.35	-0.019	-0.341	-0.011
87.44375	-1.44	-0.019	-0.388	-0.01
88.25375	-1.456	-0.018	-0.403	-0.01
93.90625	-1.534	-0.02	-0.454	-0.01
100.434375	-1.85	-0.022	-0.44	-0.01
107.948125	-1.968	-0.023	-0.482	-0.01
106.191875	-2.029	-0.023	-0.481	-0.012
119.04625	-2.381	-0.026	-0.55	-0.014
119.730625	-2.459	-0.027	-0.565	-0.013
126.8725	-2.717	-0.028	-0.613	-0.014
136.493125	-3.16	-0.032	-0.7	-0.015
146.885625	-3.272	-0.034	-0.793	-0.014
156.593125	-3.56	-0.037	-0.884	-0.014
144.65875	0.202	-0.027	-0.819	-0.024
84.721875	0.782	-0.009	-0.358	0
83.243125	0.77	-0.004	-0.31	0.002
13.849375	0.653	0.013	0.059	0.004
0.4675	0.659	0.015	0.066	0.001

Lin1_2_ap

Carga (kN)	FibN 1(fc1)	FibN 2 (fc2)	FibN 3 (fc3)	FibN 4 (fc4)	FibN 5 (fc5)
0	0	0	0	0	0.001
8.318125	-0.01	-0.012	-0.015	-0.003	0.008
8.02375	-0.01	-0.012	-0.015	-0.003	0.004
18.03375	-0.027	-0.032	-0.038	-0.001	0.009
17.940625	-0.027	-0.033	-0.04	0	0.012
28.650625	-0.046	-0.057	-0.069	-0.001	0.015
28.494375	-0.047	-0.059	-0.072	-0.001	0.017
38.12625	-0.068	-0.085	-0.104	-0.005	0.017
37.883125	-0.069	-0.087	-0.107	-0.005	0.016
46.194375	-0.089	-0.112	-0.137	-0.014	0.014
45.855625	-0.091	-0.114	-0.14	-0.015	0.015
50.649375	-0.103	-0.128	-0.157	-0.021	0.013
54.549375	-0.115	-0.141	-0.173	-0.027	0.012
56.065	-0.124	-0.153	-0.185	-0.032	0.011
58.901875	-0.132	-0.162	-0.196	-0.036	0.009
62.500625	-0.146	-0.175	-0.212	-0.043	0.008
64.904375	-0.158	-0.189	-0.227	-0.048	0.009
66.77	-0.166	-0.197	-0.236	-0.052	0.008
70.99875	-0.182	-0.212	-0.254	-0.058	0.006
75.27875	-0.311	-0.372	-0.45	-0.094	-0.009
79.321875	-0.344	-0.402	-0.488	-0.101	-0.011
80.35	-0.385	-0.438	-0.531	-0.106	-0.011
87.44375	-0.46	-0.498	-0.605	-0.116	-0.011
88.25375	-0.485	-0.519	-0.629	-0.117	-0.011
93.90625	-0.559	-0.576	-0.698	-0.125	-0.015
100.434375	-0.687	-0.676	-0.826	-0.136	-0.015
107.948125	-0.777	-0.747	-0.919	-0.144	-0.019
106.191875	-0.83	-0.811	-1.012	-0.145	-0.019
119.04625	-1.083	-1.005	-1.311	-0.164	-0.026
119.730625	-1.272	-1.28	-1.52	-0.165	-0.026
126.8725	-1.499	-1.456	-1.751	-0.172	-0.027
136.493125	-2.456	-2.161	-2.314	-0.184	-0.028
146.885625	-3.565	-2.914	-2.91	-0.195	-0.029
156.593125	-4.862	-3.668	-3.595	-0.212	-0.028
144.65875	-5.042	-6.108	-4.546	-0.246	-0.096
84.721875	-0.044	0.115	-0.558	-0.138	-0.019
83.243125	-0.049	0.137	0.006	-0.154	-0.026
13.849375	-0.047	0.133	0.065	-0.181	-0.082
0.4675	-0.032	0.155	0.127	-0.134	-0.076

Fibra_op

Carga (kN)	Bares	sensor A	sensor B	sensor C	sensor D
0	0	0	0	0	0
8.318125	10	-20	-15	-20	-20
18.03375	20	-45	-40	-35	-50
28.650625	30	-70	-60	-50	-80
38.12625	40	-105	-80	-60	-120
46.194375	50	-155	-105	-70	-150
54.549375	60	-225	-145	-80	-190
62.500625	70	-310	-180	-90	-220
70.99875	80	-400	-225	-100	-245
80.35	90	-580		-410	
88.25375	100			-450	
93.90625	110			-565	
107.948125	120			-730	
119.730625	130			-1390	
126.8725	140			-1800	
136.493125	150			-3000	
146.885625	160			-4100	
156.593125	180			-6000	
144.65875					
84.721875					
83.243125					
13.849375					
0.4675					

Carga (kN)	Gal-fip 6-7	Gal-fin 1-2-3	Fibra 2	fc1,fc2,fc3	fc2	fc6,fc7
0	0	0	0	0	0	0
8.318125	-0.021	-0.01233333	-0.012	-12.3333333	-12	-21
18.03375	-0.042	-0.03233333	-0.032	-32.3333333	-32	-42
28.650625	-0.063	-0.05733333	-0.057	-57.3333333	-57	-63
38.12625	-0.076	-0.08566667	-0.085	-85.6666667	-85	-76
46.194375	-0.085	-0.11266667	-0.112	-112.666667	-112	-85
54.549375	-0.093	-0.143	-0.141	-143	-141	-93
62.500625	-0.1	-0.17766667	-0.175	-177.666667	-175	-100
70.99875	-0.109	-0.216	-0.212	-216	-212	-109
80.35	-1.35	-0.45133333	-0.438	-451.333333	-438	-1350
88.25375	-1.456	-0.54433333	-0.519	-544.333333	-519	-1456
93.90625	-1.534	-0.611	-0.576	-611	-576	-1534
107.948125	-1.968	-0.81433333	-0.747	-814.333333	-747	-1968
119.730625	-2.459	-1.35733333	-1.28	-1357.33333	-1280	-2459
126.8725	-2.717	-1.56866667	-1.456	-1568.66667	-1456	-2717
136.493125	-3.16	-2.31033333	-2.161	-2310.33333	-2161	-3160
146.885625	-3.272	-3.12966667	-2.914	-3129.66667	-2914	-3272
156.593125	-3.56	-4.04166667	-3.668	-4041.66667	-3668	-3560
144.65875	0.202	-5.232	-6.108	-5232	-6108	202
84.721875	0.782	-0.16233333	0.115	-162.333333	115	782
83.243125	0.77	0.03133333	0.137	31.3333333	137	770
13.849375	0.653	0.05033333	0.133	50.3333333	133	653
0.4675	0.659	0.08333333	0.155	83.3333333	155	659

Tens_Pv

*** TENSIONES EN EL CORDON DE PRETENSADO LADO VISTO ***						
FECHA		21/05/98			Fuerza (Tm)	
Carga (kN)	Def_pv	Tens_pv	ACTIVO	TRAMO 1	PASIVO	Tens Activo
0	6.0478696	13632.5711	18.2209413	19.0855996	18.7493428	13014.9581
8.318125	6.05053626	13637.9341	18.2281092	19.0931077	18.7567186	13020.078
8.02375	6.05353626	13643.9716	18.2361789	19.1015602	18.7650223	13025.8421
18.03375	6.0638696	13664.8016	18.2640198	19.1307223	18.7936705	13045.7284
17.940625	6.06453626	13666.1473	18.2658184	19.1326062	18.7955213	13047.0131
28.650625	6.0768696	13691.0803	18.2991431	19.1675124	18.8298124	13070.8165
28.494375	6.07720293	13691.7551	18.3000451	19.1684572	18.8307406	13071.4608
38.12625	6.0868696	13711.3482	18.3262327	19.1958874	18.8576876	13090.1662
37.883125	6.0878696	13713.3775	18.328945	19.1987285	18.8604785	13092.1035
46.194375	6.09753626	13733.0169	18.3551946	19.2262237	18.8874894	13110.8533
45.855625	6.0978696	13733.6949	18.3561007	19.2271729	18.8884218	13111.5005
50.649375	6.10420293	13746.5852	18.3733296	19.2452193	18.9061503	13123.8068
54.549375	6.11020293	13758.8129	18.3896728	19.262338	18.9229674	13135.4806
56.065	6.11920293	13777.1825	18.4142252	19.2880556	18.9482318	13153.018
58.901875	6.12353626	13786.039	18.4260625	19.3004546	18.9604124	13161.4732
62.500625	6.13053626	13800.3613	18.4452054	19.3205059	18.9801104	13175.1467
64.904375	6.13353626	13806.5054	18.4534173	19.3291075	18.9885606	13181.0124
66.77	6.13720293	13814.0195	18.4634605	19.3396273	18.998895	13188.1861
70.99875	6.1448696	13829.7473	18.4844819	19.3616462	19.0205259	13203.2013
75.27875	6.18153626	13905.258	18.5854076	19.4673612	19.1243784	13275.2911
79.321875	6.18820293	13919.0356	18.6038223	19.4866499	19.1433273	13288.4445
80.35	6.19753626	13938.3476	18.6296342	19.5136866	19.1698876	13306.8815
87.44375	6.2078696	13959.7591	18.6582522	19.5436627	19.1993356	13327.323
88.25375	6.21053626	13965.2897	18.6656443	19.5514055	19.206942	13332.6031
93.90625	6.22453626	13994.3577	18.7044958	19.5921008	19.2469203	13360.3542
100.434375	6.24420293	14035.2782	18.7591891	19.6493895	19.3031997	13399.4208
107.948125	6.26053626	14069.3338	18.804707	19.6970674	19.3500375	13431.9336
106.191875	6.27053626	14090.2133	18.832614	19.7262987	19.3787538	13451.8672
119.04625	6.29820293	14148.0832	18.9099614	19.8073165	19.4583442	13507.1153
119.730625	6.3068696	14166.2392	18.9342282	19.8327349	19.4833148	13524.4487
126.8725	6.32653626	14207.4827	18.9893531	19.8904757	19.5400383	13563.8237
136.493125	6.3738696	14306.9431	19.1222895	20.0297204	19.6768298	13658.7782
146.885625	6.42253626	14409.3855	19.2592113	20.1731397	19.8177223	13756.5795
156.593125	6.4968696	14565.9009	19.4684057	20.3922613	20.0329833	13906.0041
144.65875	6.57520293	14730.4393	19.6883235	20.6226151	20.2592786	14063.0882
84.721875	6.91220293	15421.6031	20.6121151	21.5902444	21.2098599	14722.9394
83.243125	7.4438696	16392.558	21.9098682	22.9495812	22.5452474	15649.9059
13.849375	7.2898696	16131.5594	21.5610243	22.5841832	22.1862871	15400.7316
0.4675	6.53453626	14645.1024	19.5742644	20.5031434	20.1419119	13981.6174

*** TENSIONES EN EL CORDON DE PRETENSADO LADO VISTO ***						
FECHA			:			
Carga (kN)	Tens Tramo1	Tens Pasivo	COEFICIENT	In_tens_act	In_tens_tramo	In_tens_pas
0	13632.5711	13392.3877	0.35418378	0	0	0
8.318125	13637.9341	13397.6561	RADIANTES	5.11995547	5.36291832	5.26843255
8.02375	13643.9716	13403.5873	0.13089969	10.8839771	11.40046639	11.199609
18.03375	13664.8016	13424.0504		30.7703318	32.23051001	31.6626616
17.940625	13666.1473	13425.3723		32.0550292	33.57617163	32.9846149
28.650625	13691.0803	13449.866		55.8584104	58.50912067	57.4782865
28.494375	13691.7551	13450.529		56.502693	59.18397715	58.1412531
38.12625	13711.3482	13469.7768		75.2081119	78.77704476	77.3891232
37.883125	13713.3775	13471.7704		77.1454709	80.80633938	79.382665
46.194375	13733.0169	13491.0638		95.8951937	100.4458134	98.6761238
45.855625	13733.6949	13491.7299		96.5424364	101.1237703	99.3421363
50.649375	13746.5852	13504.3931		108.848767	114.0140864	112.005346
54.549375	13758.8129	13516.4053		120.522472	126.2417568	124.017585
56.065	13777.1825	13534.4513		138.059901	144.6114088	142.063594
58.901875	13786.039	13543.1517		146.515104	153.4678457	150.763995
62.500625	13800.3613	13557.2217		160.188611	167.7902166	164.83403
64.904375	13806.5054	13563.2575		166.054303	173.9342593	170.869825
66.77	13814.0195	13570.6393		173.227986	181.448363	178.251542
70.99875	13829.7473	13586.09		188.243246	197.1761585	193.70224
75.27875	13905.258	13660.2703		260.33303	272.6868979	267.882605
79.321875	13919.0356	13673.8052		273.486456	286.4645083	281.417476
80.35	13938.3476	13692.7769		291.92346	305.7764238	300.389148
87.44375	13959.7591	13713.8112		312.36495	327.1879464	321.423435
88.25375	13965.2897	13719.2443		317.644974	332.7185287	326.856577
93.90625	13994.3577	13747.8002		345.396089	361.7865479	355.412466
100.434375	14035.2782	13787.9998		384.462742	402.7070734	395.612039
107.948125	14069.3338	13821.4554		416.975519	436.7627145	429.067676
106.191875	14090.2133	13841.967		436.909089	457.6422145	449.579314
119.04625	14148.0832	13898.8173		492.157187	515.5120613	506.429589
119.730625	14166.2392	13916.6534		509.490664	533.6680824	524.265731
126.8725	14207.4827	13957.1702		548.8656	574.9115202	564.782528
136.493125	14306.9431	14054.8784		643.820107	674.3720076	662.490685
146.885625	14409.3855	14155.5159		741.621392	776.8143638	763.128176
156.593125	14565.9009	14309.2738		891.046	933.3297816	916.88605
144.65875	14730.4393	14470.9133		1048.13014	1097.868208	1078.52558
84.721875	15421.6031	15149.8999		1707.98129	1789.031993	1757.5122
83.243125	16392.558	16103.7482		2634.94779	2759.986852	2711.36044
13.849375	16131.5594	15847.3479		2385.77355	2498.988278	2454.96023
0.4675	14645.1024	14387.0799		966.65937	1012.531316	994.692184

Tens_po

*** TENSIONES EN EL CORDON DE PRETENSADO LADO OCULTO ***						
FECHA						
Carga (kN)	Def_po	Tens_po	ACTIVO	TRAMO 1	PASIVO	Tens Activo
0	6.15294444	13846.336	18.5066539	19.3848704	19.043341	13219.0385
8.318125	6.1576111	13855.9338	18.5194821	19.3983073	19.0565411	13228.2015
8.02375	6.15894444	13858.6775	18.5231492	19.4021484	19.0603146	13230.8208
18.03375	6.16794444	13877.2133	18.5479237	19.4280986	19.0858076	13248.5169
17.940625	6.17094444	13883.3981	18.5561901	19.4367573	19.0943137	13254.4215
28.650625	6.18394444	13910.2332	18.5920573	19.4743265	19.131221	13280.0409
28.494375	6.18594444	13914.3666	18.5975818	19.4801132	19.1369057	13283.987
38.12625	6.1996111	13942.6443	18.635377	19.519702	19.175797	13310.9836
37.883125	6.2016111	13946.7872	18.6409144	19.5255021	19.181495	13314.9388
46.194375	6.21327777	13970.9776	18.6732466	19.5593686	19.2147648	13338.0333
45.855625	6.2146111	13973.7446	18.676945	19.5632425	19.2185704	13340.675
50.649375	6.22194444	13988.9723	18.6972978	19.5845612	19.2395135	13355.2127
54.549375	6.22894444	14003.5212	18.7167436	19.6049297	19.2595232	13369.1026
56.065	6.23494444	14016.0019	18.7334249	19.6224026	19.2766883	13381.0178
58.901875	6.23894444	14024.3274	18.7445525	19.6340583	19.2881386	13388.9661
62.500625	6.2466111	14040.2955	18.7658951	19.6564136	19.3101001	13404.2108
64.904375	6.2506111	14048.6322	18.7770377	19.6680851	19.3215659	13412.1698
66.77	6.25494444	14057.6678	18.7891145	19.680735	19.3339929	13420.7961
70.99875	6.26327777	14075.0559	18.8123549	19.7050782	19.3579072	13437.3964
75.27875	6.30527777	14162.9035	18.9297699	19.8280649	19.4787271	13521.2642
79.321875	6.3126111	14178.2739	18.9503135	19.8495835	19.4998665	13535.9382
80.35	6.3226111	14199.2466	18.9783451	19.8789453	19.528711	13555.9608
87.44375	6.33494444	14225.1322	19.012943	19.915185	19.5643123	13580.6736
88.25375	6.3376111	14230.7316	19.0204271	19.9230242	19.5720134	13586.0194
93.90625	6.35194444	14260.8429	19.0606731	19.96518	19.6134265	13614.7665
100.434375	6.37294444	14304.997	19.1196883	20.0269959	19.6741532	13656.9202
107.948125	6.3906111	14342.1699	19.1693727	20.0790379	19.7252784	13692.409
106.191875	6.4006111	14363.2196	19.1975071	20.1085074	19.7542286	13712.505
119.04625	6.4306111	14426.391	19.2819404	20.1969475	19.8411106	13772.8146
119.730625	6.43994444	14446.0478	19.3082131	20.2244669	19.8681451	13791.5808
126.8725	6.4606111	14489.5718	19.3663862	20.2854005	19.9280052	13833.133
136.493125	6.51194444	14597.6132	19.5107916	20.4366585	20.0765983	13936.2797
146.885625	6.5646111	14708.2341	19.6586446	20.5915278	20.228739	14041.889
156.593125	6.6446111	14875.4716	19.8821698	20.8256602	20.4587464	14201.5499
144.65875	6.7346111	15061.8753	20.1313123	21.0866255	20.7151139	14379.5088
84.721875	7.07894444	15745.8672	21.0455181	22.0442141	21.6558314	15032.5129
83.243125	7.68927777	16767.1859	22.4105862	23.4740603	23.0604861	16007.5616
13.849375	7.41227777	16340.5593	21.8403681	22.876783	22.4737318	15600.2629
0.4675	6.66427777	14916.3848	19.9368534	20.8829387	20.5150158	14240.6096

*** TENSIONES EN EL CORDON DE PRETENSADO LADO OCULTO ***						
FECHA						
Carga (kN)	Tens Tramo1	Tens Pasivo	COEFICIENT	In_tens_act	In_tens_tramo	In_tens_pas
0	13846.336	13602.3864	0.35418378	0	0	0
8.318125	13855.9338	13611.8151	RADIANES	9.16298389	9.597805	9.42870751
8.02375	13858.6775	13614.5104	0.13089969	11.7823356	12.3414556	12.1240196
18.03375	13877.2133	13632.7197		29.4784271	30.8772992	30.3332921
17.940625	13883.3981	13638.7955		35.3830091	37.0620777	36.4091051
28.650625	13910.2332	13665.1579		61.0024228	63.8972376	62.7714736
28.494375	13914.3666	13669.2184		64.9485003	68.0305726	66.8319861
38.12625	13942.6443	13696.9979		91.9451029	96.3082746	94.6114816
37.883125	13946.7872	13701.0678		95.9003534	100.451218	98.6814331
46.194375	13970.9776	13724.832		118.994773	124.641563	122.445584
45.855625	13973.7446	13727.5503		121.636487	127.408636	125.163906
50.649375	13988.9723	13742.5097		136.174259	142.636286	140.12327
54.549375	14003.5212	13756.8023		150.06408	157.185235	154.41589
56.065	14016.0019	13769.063		161.979304	169.665886	166.676652
58.901875	14024.3274	13777.2418		169.927603	177.991364	174.855449
62.500625	14040.2955	13792.9286		185.172285	193.959468	190.542222
64.904375	14048.6322	13801.1185		193.131329	202.296202	198.732077
66.77	14057.6678	13809.9949		201.757609	211.331834	207.608516
70.99875	14075.0559	13827.0766		218.357886	228.719862	224.690195
75.27875	14162.9035	13913.3765		302.225691	316.567537	310.990139
79.321875	14178.2739	13928.4761		316.899717	331.937906	326.089708
80.35	14199.2466	13949.0793		336.922286	352.910629	346.692925
87.44375	14225.1322	13974.5088		361.635092	378.796158	372.122395
88.25375	14230.7316	13980.0096		366.980863	384.395608	377.623191
93.90625	14260.8429	14009.5904		395.727976	414.506889	407.203961
100.434375	14304.997	14052.9666		437.88176	458.661043	450.580192
107.948125	14342.1699	14089.4845		473.370557	495.833928	487.098152
106.191875	14363.2196	14110.1633		493.466548	516.883556	507.77692
119.04625	14426.391	14172.2218		553.776104	580.055047	569.835434
119.730625	14446.0478	14191.5322		572.542287	599.711763	589.145831
126.8725	14489.5718	14234.2894		614.094505	643.235803	631.90305
136.493125	14597.6132	14340.4274		717.2412	751.277231	738.040966
146.885625	14708.2341	14449.0993		822.850519	861.898146	846.712922
156.593125	14875.4716	14613.3903		982.511381	1029.13557	1011.0039
144.65875	15061.8753	14796.5099		1160.47027	1215.53933	1194.12353
84.721875	15745.8672	15468.451		1813.47441	1899.5312	1866.06459
83.243125	16767.1859	16471.7758		2788.52309	2920.84993	2869.38937
13.849375	16340.5593	16052.6656		2381.22441	2494.22326	2450.27916
0.4675	14916.3848	14653.5827		1021.57109	1070.04882	1051.19633