26.235	28.4	0.174	1.296	500.0	5.515	1644	-0.00017
26.550	28.4	0.174	1.297	500.0	5.539	1688	-0.00018
27.692	28.4	0.174	1.300	500.0	5.509	1844	-0.00017
28.550	28.5	0.174	1.305	500.0	5.315	1956	-0.00013
29.149	50.0	0.174	1.273	500.0	0.873	2091	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. Tras la disposición de la superestructura
Envolvente de esfuerzos.

	Cortantes		Cortantes de pretensado		Axiles y flectores			
Distancia al eje 1	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_{p-}	N_{p+}	M_{u-}	M_{u+}
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.3	-0.2	0.0	0.0	19.4	19.4	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	773.3	773.3	-2.3	-1.6
0.001	367.7	531.8	0.0	0.0	776.8	776.8	-1.1	-0.7
0.600	354.2	512.5	0.0	0.0	1723.0	1723.0	201.8	292.7
1.457	335.0	485.0	0.0	0.0	2047.9	2047.9	491.6	713.3
2.600	307.9	445.8	0.0	0.0	2365.3	2365.3	873.3	1265.0
2.915	300.2	434.4	0.0	0.0	2478.5	2478.5	977.7	1415.3
3.600	283.3	409.7	0.0	0.0	2677.9	2677.9	1163.4	1685.1
4.372	263.9	381.5	0.0	0.0	2959.7	2959.7	1368.7	1981.9
5.512	235.1	339.6	0.0	0.0	3309.5	3309.5	1667.7	2413.1
5.830	227.1	327.9	0.0	0.0	3355.9	3355.9	1751.1	2533.5
6.600	207.3	299.3	0.0	0.0	3578.7	3578.7	1899.5	2748.0
7.287	189.6	273.8	0.0	0.0	3820.6	3820.6	2032.0	2939.5
7.600	181.6	262.1	0.0	0.0	3863.6	3863.6	2092.2	3026.6
8.745	152.0	219.3	0.0	0.0	4180.1	4180.1	2302.9	3329.0
10.202	114.2	164.7	0.0	0.0	4183.3	4183.3	2476.1	3580.1
11.660	76.2	109.9	0.0	0.0	4186.4	4186.4	2639.1	3814.3
13.117	38.1	55.0	0.0	0.0	4187.5	4187.5	2698.7	3336.2
14.575	-1.7	1.7	0.0	0.0	4188.5	4188.5	2840.9	2840.9
16.032	-55.0	-38.1	0.0	0.0	4187.5	4187.5	2698.7	3336.2
17.490	-109.9	-76.2	0.0	0.0	4186.4	4186.4	2639.1	3814.3
18.947	-164.7	-114.2	0.0	0.0	4183.3	4183.3	2476.1	3580.1
20.405	-219.3	-152.0	0.0	0.0	4180.1	4180.1	2302.9	3329.0
21.550	-262.1	-181.6	0.0	0.0	3863.6	3863.6	2092.2	3026.6
21.862	-273.8	-189.6	0.0	0.0	3820.6	3820.6	2032.0	2939.5
22.550	-299.3	-207.3	0.0	0.0	3578.7	3578.7	1899.5	2748.0
23.320	-327.9	-227.1	0.0	0.0	3355.9	3355.9	1751.1	2533.5
23.638	-339.6	-235.1	0.0	0.0	3309.5	3309.5	1667.7	2413.1
24.778	-381.5	-263.9	0.0	0.0	2959.7	2959.7	1368.7	1981.9
25.550	-409.7	-283.3	0.0	0.0	2677.9	2677.9	1163.4	1685.1
26.235	-434.4	-300.2	0.0	0.0	2478.5	2478.5	977.7	1415.3
26.550	-445.8	-307.9	0.0	0.0	2365.3	2365.3	873.3	1265.0
27.692	-485.0	-335.0	0.0	0.0	2047.9	2047.9	491.6	713.3
28.550	-512.5	-354.2	0.0	0.0	1723.0	1723.0	201.8	292.7
29.149	-531.8	-367.7	0.0	0.0	776.8	776.8	-1.1	-0.7
29.151	8.2	11.4	0.0	0.0	773.3	773.3	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	19.4	19.4	-0.1	-0.0

Viga 2. Tras la disposición de la superestructura
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1	V_u	V_{nmax}	V_r	V_u/V_r	Observaciones
(m)	(kN)	(kN)	(kN)		
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	531.8	2769.9	2492.9	0.213	Cumple
0.600	512.5	3230.7	2907.6	0.176	Cumple
1.457	485.0	3219.3	2897.4	0.167	Cumple
2.600	445.8	3212.1	2890.9	0.154	Cumple
2.915	434.4	3210.1	2889.1	0.150	Cumple

3.600	409.7	3206.8	2886.1	0.142	Cumple
4.372	381.5	3196.7	2877.0	0.133	Cumple
5.512	339.6	3185.4	2866.8	0.118	Cumple
5.830	327.9	3183.2	2864.9	0.114	Cumple
6.600	299.3	3177.2	2859.5	0.105	Cumple
7.287	273.8	3171.9	2854.7	0.096	Cumple
7.600	262.1	3170.3	2853.2	0.092	Cumple
8.745	219.3	3164.3	2847.8	0.077	Cumple
10.202	164.7	3164.3	2847.8	0.058	Cumple
11.660	109.9	3164.3	2847.8	0.039	Cumple
13.117	55.0	3164.3	2847.8	0.019	Cumple
14.575	1.7	3164.3	2847.8	0.001	Cumple
16.032	55.0	3164.3	2847.8	0.019	Cumple
17.490	109.9	3164.3	2847.8	0.039	Cumple
18.947	164.7	3164.3	2847.8	0.058	Cumple
20.405	219.3	3164.3	2847.8	0.077	Cumple
21.550	262.1	3170.3	2853.2	0.092	Cumple
21.862	273.8	3171.9	2854.7	0.096	Cumple
22.550	299.3	3177.2	2859.5	0.105	Cumple
23.320	327.9	3183.2	2864.9	0.114	Cumple
23.638	339.6	3185.4	2866.8	0.118	Cumple
24.778	381.5	3196.7	2877.0	0.133	Cumple
25.550	409.7	3206.8	2886.1	0.142	Cumple
26.235	434.4	3210.1	2889.1	0.150	Cumple
26.550	445.8	3212.1	2890.9	0.154	Cumple
27.692	485.0	3219.3	2897.4	0.167	Cumple
28.550	512.5	3230.7	2907.6	0.176	Cumple
29.149	531.8	2769.9	2492.9	0.213	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. Tras la disposición de la superestructura
Armadura de cortante

Distancia al eje 1	V_u	V_c	V_s	V_p	V_n	V_r	A_{st}	$A_{st\ min}$	$S_{max\ long}$
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(cm^2/m)	(cm^2/m)	(m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	531.8	113.5	477.4	-0.0	590.8	531.8	8.9	2.0	0.610
0.600	512.5	767.2	0.0	-0.0	767.2	690.5	2.0	2.0	0.610
1.457	485.0	789.2	0.0	-0.0	789.2	710.3	2.0	2.0	0.610
2.600	445.8	785.9	0.0	-0.0	785.9	707.3	2.0	2.0	0.610
2.915	434.4	781.1	0.0	-0.0	781.1	703.0	2.0	2.0	0.610
3.600	409.7	787.2	0.0	-0.0	787.2	708.5	2.0	2.0	0.610
4.372	381.5	787.5	0.0	-0.0	787.5	708.7	2.0	2.0	0.610
5.512	339.6	791.8	0.0	-0.0	791.8	712.7	2.0	2.0	0.610
5.830	327.9	785.4	0.0	-0.0	785.4	706.9	2.0	2.0	0.610
6.600	299.3	793.8	0.0	-0.0	793.8	714.4	2.0	2.0	0.610
7.287	273.8	796.1	0.0	-0.0	796.1	716.5	2.0	2.0	0.610
7.600	262.1	799.3	0.0	-0.0	799.3	719.3	2.0	2.0	0.610
8.745	219.3	805.8	0.0	-0.0	805.8	725.2	2.0	2.0	0.610
10.202	164.7	431.6	0.0	-0.0	431.6	388.4	0.0	0.0	0.610
11.660	109.9	427.7	0.0	-0.0	427.7	384.9	0.0	0.0	0.610
13.117	55.0	443.6	0.0	-0.0	443.6	399.2	0.0	0.0	0.610
14.575	1.7	461.1	0.0	-0.0	461.1	415.0	0.0	0.0	0.610
16.032	55.0	443.6	0.0	-0.0	443.6	399.2	0.0	0.0	0.610
17.490	109.9	427.7	0.0	-0.0	427.7	384.9	0.0	0.0	0.610
18.947	164.7	431.6	0.0	-0.0	431.6	388.4	0.0	0.0	0.610
20.405	219.3	805.8	0.0	-0.0	805.8	725.2	2.0	2.0	0.610
21.550	262.1	799.3	0.0	-0.0	799.3	719.3	2.0	2.0	0.610
21.862	273.8	796.1	0.0	-0.0	796.1	716.5	2.0	2.0	0.610
22.550	299.3	793.8	0.0	-0.0	793.8	714.4	2.0	2.0	0.610
23.320	327.9	785.4	0.0	-0.0	785.4	706.9	2.0	2.0	0.610
23.638	339.6	791.8	0.0	-0.0	791.8	712.7	2.0	2.0	0.610
24.778	381.5	787.5	0.0	-0.0	787.5	708.7	2.0	2.0	0.610
25.550	409.7	787.2	0.0	-0.0	787.2	708.5	2.0	2.0	0.610

26.235	434.4	781.1	0.0	-0.0	781.1	703.0	2.0	2.0	0.610
26.550	445.8	785.9	0.0	-0.0	785.9	707.3	2.0	2.0	0.610
27.692	485.0	789.2	0.0	-0.0	789.2	710.3	2.0	2.0	0.610
28.550	512.5	767.2	0.0	-0.0	767.2	690.5	2.0	2.0	0.610
29.149	531.8	113.5	477.4	-0.0	590.8	531.8	8.9	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. Tras la disposición de la superestructura
Armadura de cortante

Distancia al eje 1	θ	b_0	d_v	$f_{y\alpha d}$	β	v	ε
(m)	(º)	(m)	(m)	(MPa)		(kN/m2)	
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	2666	0.00600
0.600	28.8	0.174	1.485	500.0	5.059	2203	-0.00007
1.457	28.6	0.174	1.480	500.0	5.223	2092	-0.00011
2.600	28.6	0.174	1.477	500.0	5.213	1927	-0.00011
2.915	28.7	0.174	1.476	500.0	5.184	1879	-0.00010
3.600	28.6	0.174	1.474	500.0	5.230	1775	-0.00011
4.372	28.6	0.174	1.470	500.0	5.248	1658	-0.00011
5.512	28.6	0.174	1.465	500.0	5.296	1481	-0.00012
5.830	28.6	0.174	1.464	500.0	5.257	1431	-0.00012
6.600	28.5	0.174	1.461	500.0	5.323	1308	-0.00013
7.287	28.5	0.174	1.458	500.0	5.347	1199	-0.00014
7.600	28.5	0.174	1.458	500.0	5.371	1148	-0.00014
8.745	28.5	0.174	1.455	500.0	5.425	963	-0.00015
10.202	28.5	0.174	1.455	0.0	2.906	723	-0.00014
11.660	28.5	0.174	1.455	0.0	2.880	482	-0.00013
13.117	28.4	0.174	1.455	0.0	2.986	241	-0.00017
14.575	28.2	0.174	1.455	0.0	3.104	8	-0.00022
16.032	28.4	0.174	1.455	0.0	2.986	241	-0.00017
17.490	28.5	0.174	1.455	0.0	2.880	482	-0.00013
18.947	28.5	0.174	1.455	0.0	2.906	723	-0.00014
20.405	28.5	0.174	1.455	500.0	5.425	963	-0.00015
21.550	28.5	0.174	1.458	500.0	5.371	1148	-0.00014
21.862	28.5	0.174	1.458	500.0	5.347	1199	-0.00014
22.550	28.5	0.174	1.461	500.0	5.323	1308	-0.00013
23.320	28.6	0.174	1.464	500.0	5.257	1431	-0.00012
23.638	28.6	0.174	1.465	500.0	5.296	1481	-0.00012
24.778	28.6	0.174	1.470	500.0	5.248	1658	-0.00011
25.550	28.6	0.174	1.474	500.0	5.230	1775	-0.00011
26.235	28.7	0.174	1.476	500.0	5.184	1879	-0.00010
26.550	28.6	0.174	1.477	500.0	5.213	1927	-0.00011
27.692	28.6	0.174	1.480	500.0	5.223	2092	-0.00011
28.550	28.8	0.174	1.485	500.0	5.059	2203	-0.00007
29.149	50.0	0.174	1.273	500.0	0.873	2666	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. Tras la apertura al tráfico
Envolvente de esfuerzos.

	Cortantes		Cortantes de pretensado		Axiles y flectores			
Distancia al eje 1	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_{p-}	N_{p+}	M_{u-}	M_{u+}
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.3	-0.2	0.0	0.0	19.4	19.4	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	773.3	773.3	-2.3	-1.6
0.001	351.1	1249.6	0.0	0.0	776.8	776.8	-6.8	0.6
0.600	336.7	1216.8	0.0	0.0	1723.0	1723.0	226.3	694.6
1.457	316.2	1169.9	0.0	0.0	2047.9	2047.9	549.6	1698.6
2.600	276.9	1088.0	0.0	0.0	2365.3	2365.3	1126.8	2899.1

2.915	263.6	1061.4	0.0	0.0	2478.5	2478.5	1315.9	3202.0
3.600	234.7	1003.7	0.0	0.0	2677.9	2677.9	1685.9	3803.8
4.372	201.8	943.0	0.0	0.0	2959.7	2959.7	2053.2	4403.5
5.512	152.9	857.3	0.0	0.0	3309.5	3309.5	2551.3	5219.5
5.830	139.2	833.4	0.0	0.0	3355.9	3355.9	2690.3	5447.2
6.600	108.7	779.4	0.0	0.0	3578.7	3578.7	2924.9	5835.3
7.287	81.4	731.2	0.0	0.0	3820.6	3820.6	3134.3	6181.8
7.600	69.0	709.3	0.0	0.0	3863.6	3863.6	3229.5	6339.3
8.745	15.3	630.1	0.0	0.0	4180.1	4180.1	3668.2	6767.1
10.202	-50.5	528.5	0.0	0.0	4183.3	4183.3	4103.0	7135.1
11.660	-107.3	424.8	0.0	0.0	4186.4	4186.4	4425.0	7461.4
13.117	-159.4	316.4	0.0	0.0	4187.5	4187.5	4586.4	6374.9
14.575	-224.6	224.6	0.0	0.0	4188.5	4188.5	5219.6	5219.6
16.032	-316.4	159.4	0.0	0.0	4187.5	4187.5	4586.4	6374.9
17.490	-424.8	107.3	0.0	0.0	4186.4	4186.4	4425.0	7461.4
18.947	-528.5	50.5	0.0	0.0	4183.3	4183.3	4103.0	7135.1
20.405	-630.1	-15.3	0.0	0.0	4180.1	4180.1	3668.2	6767.1
21.550	-709.3	-69.0	0.0	0.0	3863.6	3863.6	3229.5	6339.3
21.862	-731.2	-81.4	0.0	0.0	3820.6	3820.6	3134.3	6181.8
22.550	-779.4	-108.7	0.0	0.0	3578.7	3578.7	2924.9	5835.3
23.320	-833.4	-139.2	0.0	0.0	3355.9	3355.9	2690.3	5447.2
23.638	-857.3	-152.9	0.0	0.0	3309.5	3309.5	2551.3	5219.5
24.778	-943.0	-201.8	0.0	0.0	2959.7	2959.7	2053.2	4403.5
25.550	-1003.7	-234.7	0.0	0.0	2677.9	2677.9	1685.9	3803.8
26.235	-1061.4	-263.6	0.0	0.0	2478.5	2478.5	1315.9	3202.0
26.550	-1088.0	-276.9	0.0	0.0	2365.3	2365.3	1126.8	2899.1
27.692	-1169.9	-316.2	0.0	0.0	2047.9	2047.9	549.6	1698.6
28.550	-1216.8	-336.7	0.0	0.0	1723.0	1723.0	226.3	694.6
29.149	-1249.6	-351.1	0.0	0.0	776.8	776.8	-6.8	0.6
29.151	8.2	11.4	0.0	0.0	773.3	773.3	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	19.4	19.4	-0.1	-0.0

Viga 2. Tras la apertura al tráfico
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1 (m)	V_u (kN)	V_{nmax} (kN)	V_r (kN)	V_u/V_r		Observaciones
-0.390	0.3	2769.9	2492.9	0.000	Cumple	
-0.001	11.4	2769.9	2492.9	0.005	Cumple	
0.001	1249.6	2769.9	2492.9	0.501	Cumple	
0.600	1216.8	3230.7	2907.6	0.418	Cumple	
1.457	1169.9	3219.3	2897.4	0.404	Cumple	
2.600	1088.0	3212.1	2890.9	0.376	Cumple	
2.915	1061.4	3210.1	2889.1	0.367	Cumple	
3.600	1003.7	3206.8	2886.1	0.348	Cumple	
4.372	943.0	3196.7	2877.0	0.328	Cumple	
5.512	857.3	3185.4	2866.8	0.299	Cumple	
5.830	833.4	3183.2	2864.9	0.291	Cumple	
6.600	779.4	3177.2	2859.5	0.273	Cumple	
7.287	731.2	3171.9	2854.7	0.256	Cumple	
7.600	709.3	3170.3	2853.2	0.249	Cumple	
8.745	630.1	3164.3	2847.8	0.221	Cumple	
10.202	528.5	3164.3	2847.8	0.186	Cumple	
11.660	424.8	3164.3	2847.8	0.149	Cumple	
13.117	316.4	3164.3	2847.8	0.111	Cumple	
14.575	224.6	3164.3	2847.8	0.079	Cumple	
16.032	316.4	3164.3	2847.8	0.111	Cumple	
17.490	424.8	3164.3	2847.8	0.149	Cumple	
18.947	528.5	3164.3	2847.8	0.186	Cumple	
20.405	630.1	3164.3	2847.8	0.221	Cumple	
21.550	709.3	3170.3	2853.2	0.249	Cumple	
21.862	731.2	3171.9	2854.7	0.256	Cumple	
22.550	779.4	3177.2	2859.5	0.273	Cumple	
23.320	833.4	3183.2	2864.9	0.291	Cumple	
23.638	857.3	3185.4	2866.8	0.299	Cumple	
24.778	943.0	3196.7	2877.0	0.328	Cumple	

25.550	1003.7	3206.8	2886.1	0.348	Cumple
26.235	1061.4	3210.1	2889.1	0.367	Cumple
26.550	1088.0	3212.1	2890.9	0.376	Cumple
27.692	1169.9	3219.3	2897.4	0.404	Cumple
28.550	1216.8	3230.7	2907.6	0.418	Cumple
29.149	1249.6	2769.9	2492.9	0.501	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. Tras la apertura al tráfico

Armadura de cortante

Distancia al eje 1 (m)	V_u (kN)	V_c (kN)	V_s (kN)	V_p (kN)	V_n (kN)	V_r (kN)	A_{st} (cm^2/m)	$A_{st\ min}$ (cm^2/m)	$S_{max\ long}$ (m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	1249.6	113.5	1275.0	-0.0	1388.5	1249.6	23.9	2.0	0.305
0.600	1216.8	379.4	972.7	-0.0	1352.0	1216.8	8.6	2.0	0.610
1.457	1169.9	475.7	824.2	-0.0	1299.9	1169.9	6.8	2.0	0.610
2.600	1088.0	379.5	829.4	-0.0	1208.9	1088.0	7.4	2.0	0.610
2.915	1061.4	354.9	824.4	-0.0	1179.4	1061.4	7.5	2.0	0.610
3.600	1003.7	347.0	768.2	-0.0	1115.3	1003.7	7.0	2.0	0.610
4.372	943.0	335.7	712.1	-0.0	1047.8	943.0	6.6	2.0	0.610
5.512	857.3	331.7	620.9	-0.0	952.6	857.3	5.8	2.0	0.610
5.830	833.4	316.5	609.5	-0.0	926.0	833.4	5.8	2.0	0.610
6.600	779.4	329.3	536.7	-0.0	866.0	779.4	5.0	2.0	0.610
7.287	731.2	332.8	479.7	-0.0	812.4	731.2	4.5	2.0	0.610
7.600	709.3	336.5	451.6	-0.0	788.1	709.3	4.2	2.0	0.610
8.745	630.1	353.5	346.6	-0.0	700.1	630.1	3.2	2.0	0.610
10.202	528.5	336.3	250.9	-0.0	587.2	528.5	2.3	2.0	0.610
11.660	424.8	323.9	148.1	-0.0	472.0	424.8	1.4	2.0	0.610
13.117	316.4	453.4	0.0	-0.0	453.4	408.1	2.0	2.0	0.610
14.575	224.6	719.3	0.0	-0.0	719.3	647.4	2.0	2.0	0.610
16.032	316.4	453.4	0.0	-0.0	453.4	408.1	2.0	2.0	0.610
17.490	424.8	323.9	148.1	-0.0	472.0	424.8	1.4	2.0	0.610
18.947	528.5	336.3	250.9	-0.0	587.2	528.5	2.3	2.0	0.610
20.405	630.1	353.5	346.6	-0.0	700.1	630.1	3.2	2.0	0.610
21.550	709.3	336.5	451.6	-0.0	788.1	709.3	4.2	2.0	0.610
21.862	731.2	332.8	479.7	-0.0	812.4	731.2	4.5	2.0	0.610
22.550	779.4	329.3	536.7	-0.0	866.0	779.4	5.0	2.0	0.610
23.320	833.4	316.5	609.5	-0.0	926.0	833.4	5.8	2.0	0.610
23.638	857.3	331.7	620.9	-0.0	952.6	857.3	5.8	2.0	0.610
24.778	943.0	335.7	712.1	-0.0	1047.8	943.0	6.6	2.0	0.610
25.550	1003.7	347.0	768.2	-0.0	1115.3	1003.7	7.0	2.0	0.610
26.235	1061.4	354.9	824.4	-0.0	1179.4	1061.4	7.5	2.0	0.610
26.550	1088.0	379.5	829.4	-0.0	1208.9	1088.0	7.4	2.0	0.610
27.692	1169.9	475.7	824.2	-0.0	1299.9	1169.9	6.8	2.0	0.610
28.550	1216.8	379.4	972.7	-0.0	1352.0	1216.8	8.6	2.0	0.610
29.149	1249.6	113.5	1275.0	-0.0	1388.5	1249.6	23.9	2.0	0.305
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. Tras la apertura al tráfico

Armadura de cortante

Distancia al eje 1 (m)	θ (º)	b_0 (m)	d_v (m)	$f_{y\,\alpha d}$ (MPa)	β	v (kN/m^2)	ε
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	6266	0.00600
0.600	33.3	0.174	1.485	500.0	2.502	5231	0.00122
1.457	31.4	0.174	1.480	500.0	3.148	5047	0.00070
2.600	33.2	0.174	1.477	500.0	2.517	4704	0.00121
2.915	33.8	0.174	1.476	500.0	2.356	4592	0.00138

3.600	34.0	0.174	1.474	500.0	2.306	4347	0.00144
4.372	34.3	0.174	1.470	500.0	2.238	4097	0.00153
5.512	34.4	0.174	1.465	500.0	2.218	3738	0.00155
5.830	34.9	0.174	1.464	500.0	2.118	3636	0.00169
6.600	34.5	0.174	1.461	500.0	2.208	3407	0.00157
7.287	34.4	0.174	1.458	500.0	2.235	3202	0.00153
7.600	34.2	0.174	1.458	500.0	2.261	3107	0.00150
8.745	33.7	0.174	1.455	500.0	2.380	2766	0.00136
10.202	34.2	0.174	1.455	500.0	2.264	2320	0.00149
11.660	34.6	0.174	1.455	500.0	2.181	1864	0.00160
13.117	31.7	0.174	1.455	500.0	3.053	1389	0.00076
14.575	29.0	0.174	1.455	500.0	4.843	986	-0.00001
16.032	31.7	0.174	1.455	500.0	3.053	1389	0.00076
17.490	34.6	0.174	1.455	500.0	2.181	1864	0.00160
18.947	34.2	0.174	1.455	500.0	2.264	2320	0.00149
20.405	33.7	0.174	1.455	500.0	2.380	2766	0.00136
21.550	34.2	0.174	1.458	500.0	2.261	3107	0.00150
21.862	34.4	0.174	1.458	500.0	2.235	3202	0.00153
22.550	34.5	0.174	1.461	500.0	2.208	3407	0.00157
23.320	34.9	0.174	1.464	500.0	2.118	3636	0.00169
23.638	34.4	0.174	1.465	500.0	2.218	3738	0.00155
24.778	34.3	0.174	1.470	500.0	2.238	4097	0.00153
25.550	34.0	0.174	1.474	500.0	2.306	4347	0.00144
26.235	33.8	0.174	1.476	500.0	2.356	4592	0.00138
26.550	33.2	0.174	1.477	500.0	2.517	4704	0.00121
27.692	31.4	0.174	1.480	500.0	3.148	5047	0.00070
28.550	33.3	0.174	1.485	500.0	2.502	5231	0.00122
29.149	50.0	0.174	1.273	500.0	0.873	6266	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. A tiempo infinito
Envolvente de esfuerzos.

	Cortantes		Cortantes de pretensado		Axiles y flectores			
Distancia al eje 1 (m)	V_{u-} (kN)	V_{u+} (kN)	V_{p-} (kN)	V_{p+} (kN)	N_{p-} (kN)	N_{p+} (kN)	M_{u-} (kNm)	M_{u+} (kNm)
-0.390	-0.3	-0.2	0.0	0.0	18.6	18.6	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	742.6	742.6	-2.3	-1.6
0.001	351.1	1249.6	0.0	0.0	745.9	745.9	-6.8	0.6
0.600	336.7	1216.8	0.0	0.0	1616.0	1616.0	226.3	694.6
1.457	316.2	1169.9	0.0	0.0	1918.0	1918.0	549.6	1698.6
2.600	276.9	1088.0	0.0	0.0	2218.1	2218.1	1126.8	2899.1
2.915	263.6	1061.4	0.0	0.0	2318.1	2318.1	1315.9	3202.0
3.600	234.7	1003.7	0.0	0.0	2509.5	2509.5	1685.9	3803.8
4.372	201.8	943.0	0.0	0.0	2771.4	2771.4	2053.2	4403.5
5.512	152.9	857.3	0.0	0.0	3092.0	3092.0	2551.3	5219.5
5.830	139.2	833.4	0.0	0.0	3132.7	3132.7	2690.3	5447.2
6.600	108.7	779.4	0.0	0.0	3345.6	3345.6	2924.9	5835.3
7.287	81.4	731.2	0.0	0.0	3567.5	3567.5	3134.3	6181.8
7.600	69.0	709.3	0.0	0.0	3608.4	3608.4	3229.5	6339.3
8.745	15.3	630.1	0.0	0.0	3892.8	3892.8	3668.2	6767.1
10.202	-50.5	528.5	0.0	0.0	3903.1	3903.1	4103.0	7135.1
11.660	-107.3	424.8	0.0	0.0	3912.9	3912.9	4425.0	7461.4
13.117	-159.4	316.4	0.0	0.0	3916.4	3916.4	4586.4	6374.9
14.575	-224.6	224.6	0.0	0.0	3919.4	3919.4	5219.6	5219.6
16.032	-316.4	159.4	0.0	0.0	3916.4	3916.4	4586.4	6374.9
17.490	-424.8	107.3	0.0	0.0	3912.9	3912.9	4425.0	7461.4
18.947	-528.5	50.5	0.0	0.0	3903.1	3903.1	4103.0	7135.1
20.405	-630.1	-15.3	0.0	0.0	3892.8	3892.8	3668.2	6767.1
21.550	-709.3	-69.0	0.0	0.0	3608.4	3608.4	3229.5	6339.3
21.862	-731.2	-81.4	0.0	0.0	3567.5	3567.5	3134.3	6181.8
22.550	-779.4	-108.7	0.0	0.0	3345.6	3345.6	2924.9	5835.3
23.320	-833.4	-139.2	0.0	0.0	3132.7	3132.7	2690.3	5447.2
23.638	-857.3	-152.9	0.0	0.0	3092.0	3092.0	2551.3	5219.5

24.778	-943.0	-201.8	0.0	0.0	2771.4	2771.4	2053.2	4403.5
25.550	-1003.7	-234.7	0.0	0.0	2509.5	2509.5	1685.9	3803.8
26.235	-1061.4	-263.6	0.0	0.0	2318.1	2318.1	1315.9	3202.0
26.550	-1088.0	-276.9	0.0	0.0	2218.1	2218.1	1126.8	2899.1
27.692	-1169.9	-316.2	0.0	0.0	1918.0	1918.0	549.6	1698.6
28.550	-1216.8	-336.7	0.0	0.0	1616.0	1616.0	226.3	694.6
29.149	-1249.6	-351.1	0.0	0.0	745.9	745.9	-6.8	0.6
29.151	8.2	11.4	0.0	0.0	742.6	742.6	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	18.6	18.6	-0.1	-0.0

Viga 2. A tiempo infinito
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1 (m)	V_u (kN)	V_{nmax} (kN)	V_r (kN)	V_u/V_r	Observaciones
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	1249.6	2769.9	2492.9	0.501	Cumple
0.600	1216.8	3230.7	2907.6	0.418	Cumple
1.457	1169.9	3219.3	2897.4	0.404	Cumple
2.600	1088.0	3212.1	2890.9	0.376	Cumple
2.915	1061.4	3210.1	2889.1	0.367	Cumple
3.600	1003.7	3206.8	2886.1	0.348	Cumple
4.372	943.0	3196.7	2877.0	0.328	Cumple
5.512	857.3	3185.4	2866.8	0.299	Cumple
5.830	833.4	3183.2	2864.9	0.291	Cumple
6.600	779.4	3177.2	2859.5	0.273	Cumple
7.287	731.2	3171.9	2854.7	0.256	Cumple
7.600	709.3	3170.3	2853.2	0.249	Cumple
8.745	630.1	3164.3	2847.8	0.221	Cumple
10.202	528.5	3164.3	2847.8	0.186	Cumple
11.660	424.8	3164.3	2847.8	0.149	Cumple
13.117	316.4	3164.3	2847.8	0.111	Cumple
14.575	224.6	3164.3	2847.8	0.079	Cumple
16.032	316.4	3164.3	2847.8	0.111	Cumple
17.490	424.8	3164.3	2847.8	0.149	Cumple
18.947	528.5	3164.3	2847.8	0.186	Cumple
20.405	630.1	3164.3	2847.8	0.221	Cumple
21.550	709.3	3170.3	2853.2	0.249	Cumple
21.862	731.2	3171.9	2854.7	0.256	Cumple
22.550	779.4	3177.2	2859.5	0.273	Cumple
23.320	833.4	3183.2	2864.9	0.291	Cumple
23.638	857.3	3185.4	2866.8	0.299	Cumple
24.778	943.0	3196.7	2877.0	0.328	Cumple
25.550	1003.7	3206.8	2886.1	0.348	Cumple
26.235	1061.4	3210.1	2889.1	0.367	Cumple
26.550	1088.0	3212.1	2890.9	0.376	Cumple
27.692	1169.9	3219.3	2897.4	0.404	Cumple
28.550	1216.8	3230.7	2907.6	0.418	Cumple
29.149	1249.6	2769.9	2492.9	0.501	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. A tiempo infinito
Armadura de cortante

Distancia al eje 1 (m)	V_u (kN)	V_c (kN)	V_s (kN)	V_p (kN)	V_n (kN)	V_r (kN)	A_{st} (cm^2/m)	$A_{st\ min}$ (cm^2/m)	$S_{max\ long}$ (m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	1249.6	113.5	1275.0	-0.0	1388.5	1249.6	23.9	2.0	0.305
0.600	1216.8	379.4	972.7	-0.0	1352.0	1216.8	8.6	2.0	0.610
1.457	1169.9	475.7	824.2	-0.0	1299.9	1169.9	6.8	2.0	0.610
2.600	1088.0	379.5	829.4	-0.0	1208.9	1088.0	7.4	2.0	0.610
2.915	1061.4	354.9	824.4	-0.0	1179.4	1061.4	7.5	2.0	0.610

3.600	1003.7	347.0	768.2	-0.0	1115.3	1003.7	7.0	2.0	0.610
4.372	943.0	335.7	712.1	-0.0	1047.8	943.0	6.6	2.0	0.610
5.512	857.3	331.7	620.9	-0.0	952.6	857.3	5.8	2.0	0.610
5.830	833.4	316.5	609.5	-0.0	926.0	833.4	5.8	2.0	0.610
6.600	779.4	329.3	536.7	-0.0	866.0	779.4	5.0	2.0	0.610
7.287	731.2	332.8	479.7	-0.0	812.4	731.2	4.5	2.0	0.610
7.600	709.3	336.5	451.6	-0.0	788.1	709.3	4.2	2.0	0.610
8.745	630.1	353.5	346.6	-0.0	700.1	630.1	3.2	2.0	0.610
10.202	528.5	336.3	250.9	-0.0	587.2	528.5	2.3	2.0	0.610
11.660	424.8	323.9	148.1	-0.0	472.0	424.8	1.4	2.0	0.610
13.117	316.4	453.4	0.0	-0.0	453.4	408.1	2.0	2.0	0.610
14.575	224.6	719.3	0.0	-0.0	719.3	647.4	2.0	2.0	0.610
16.032	316.4	453.4	0.0	-0.0	453.4	408.1	2.0	2.0	0.610
17.490	424.8	323.9	148.1	-0.0	472.0	424.8	1.4	2.0	0.610
18.947	528.5	336.3	250.9	-0.0	587.2	528.5	2.3	2.0	0.610
20.405	630.1	353.5	346.6	-0.0	700.1	630.1	3.2	2.0	0.610
21.550	709.3	336.5	451.6	-0.0	788.1	709.3	4.2	2.0	0.610
21.862	731.2	332.8	479.7	-0.0	812.4	731.2	4.5	2.0	0.610
22.550	779.4	329.3	536.7	-0.0	866.0	779.4	5.0	2.0	0.610
23.320	833.4	316.5	609.5	-0.0	926.0	833.4	5.8	2.0	0.610
23.638	857.3	331.7	620.9	-0.0	952.6	857.3	5.8	2.0	0.610
24.778	943.0	335.7	712.1	-0.0	1047.8	943.0	6.6	2.0	0.610
25.550	1003.7	347.0	768.2	-0.0	1115.3	1003.7	7.0	2.0	0.610
26.235	1061.4	354.9	824.4	-0.0	1179.4	1061.4	7.5	2.0	0.610
26.550	1088.0	379.5	829.4	-0.0	1208.9	1088.0	7.4	2.0	0.610
27.692	1169.9	475.7	824.2	-0.0	1299.9	1169.9	6.8	2.0	0.610
28.550	1216.8	379.4	972.7	-0.0	1352.0	1216.8	8.6	2.0	0.610
29.149	1249.6	113.5	1275.0	-0.0	1388.5	1249.6	23.9	2.0	0.305
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. A tiempo infinito

Armadura de cortante

Distancia al eje 1	θ	b_0	d_v	$f_{y\,\alpha d}$	β	v	ε
(m)	(º)	(m)	(m)	(MPa)		(kN/m²)	
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	6266	0.00600
0.600	33.3	0.174	1.485	500.0	2.502	5231	0.00122
1.457	31.4	0.174	1.480	500.0	3.148	5047	0.00070
2.600	33.2	0.174	1.477	500.0	2.517	4704	0.00121
2.915	33.8	0.174	1.476	500.0	2.356	4592	0.00138
3.600	34.0	0.174	1.474	500.0	2.306	4347	0.00144
4.372	34.3	0.174	1.470	500.0	2.238	4097	0.00153
5.512	34.4	0.174	1.465	500.0	2.218	3738	0.00155
5.830	34.9	0.174	1.464	500.0	2.118	3636	0.00169
6.600	34.5	0.174	1.461	500.0	2.208	3407	0.00157
7.287	34.4	0.174	1.458	500.0	2.235	3202	0.00153
7.600	34.2	0.174	1.458	500.0	2.261	3107	0.00150
8.745	33.7	0.174	1.455	500.0	2.380	2766	0.00136
10.202	34.2	0.174	1.455	500.0	2.264	2320	0.00149
11.660	34.6	0.174	1.455	500.0	2.181	1864	0.00160
13.117	31.7	0.174	1.455	500.0	3.053	1389	0.00076
14.575	29.0	0.174	1.455	500.0	4.843	986	-0.00001
16.032	31.7	0.174	1.455	500.0	3.053	1389	0.00076
17.490	34.6	0.174	1.455	500.0	2.181	1864	0.00160
18.947	34.2	0.174	1.455	500.0	2.264	2320	0.00149
20.405	33.7	0.174	1.455	500.0	2.380	2766	0.00136
21.550	34.2	0.174	1.458	500.0	2.261	3107	0.00150
21.862	34.4	0.174	1.458	500.0	2.235	3202	0.00153
22.550	34.5	0.174	1.461	500.0	2.208	3407	0.00157
23.320	34.9	0.174	1.464	500.0	2.118	3636	0.00169
23.638	34.4	0.174	1.465	500.0	2.218	3738	0.00155
24.778	34.3	0.174	1.470	500.0	2.238	4097	0.00153

25.550	34.0	0.174	1.474	500.0	2.306	4347	0.00144
26.235	33.8	0.174	1.476	500.0	2.356	4592	0.00138
26.550	33.2	0.174	1.477	500.0	2.517	4704	0.00121
27.692	31.4	0.174	1.480	500.0	3.148	5047	0.00070
28.550	33.3	0.174	1.485	500.0	2.502	5231	0.00122
29.149	50.0	0.174	1.273	500.0	0.873	6266	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

5.2 Estado límite de Resistencia. Combinación de Resistencia II

Viga 2:

Viga 2. Tras la transferencia del pretesado
Envolvente de esfuerzos.

	Cortantes		Cortantes de pretensado		Axiles y flectores			
Distancia al eje 1	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_{p-}	N_{p+}	M_{u-}	M_{u+}
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.1	-0.1	0.0	0.0	20.3	20.3	-0.0	-0.0
-0.001	-5.0	-3.6	0.0	0.0	811.4	811.4	-1.0	-0.7
0.001	132.5	184.0	0.0	0.0	815.1	815.1	-0.8	-0.6
0.600	127.1	176.5	0.0	0.0	1835.5	1835.5	70.8	98.4
1.457	119.3	165.6	0.0	0.0	2185.1	2185.1	173.1	240.4
2.600	108.9	151.2	0.0	0.0	2523.8	2523.8	309.4	429.7
2.915	106.0	147.2	0.0	0.0	2651.8	2651.8	346.9	481.9
3.600	99.8	138.6	0.0	0.0	2860.6	2860.6	410.5	570.1
4.372	92.8	128.8	0.0	0.0	3164.9	3164.9	482.1	669.6
5.512	82.4	114.4	0.0	0.0	3547.2	3547.2	587.8	816.4
5.830	79.5	110.4	0.0	0.0	3601.9	3601.9	617.3	857.4
6.600	72.5	100.7	0.0	0.0	3834.7	3834.7	668.4	928.3
7.287	66.3	92.0	0.0	0.0	4098.8	4098.8	713.9	991.5
7.600	63.4	88.1	0.0	0.0	4144.7	4144.7	734.6	1020.3
8.745	53.0	73.6	0.0	0.0	4495.7	4495.7	810.5	1125.7
10.202	39.8	55.2	0.0	0.0	4495.7	4495.7	868.4	1206.2
11.660	26.5	36.8	0.0	0.0	4495.7	4495.7	926.4	1286.6
13.117	13.3	18.4	0.0	0.0	4495.7	4495.7	945.7	1125.8
14.575	0.0	0.0	0.0	0.0	4495.7	4495.7	965.0	965.0
16.032	-18.4	-13.3	0.0	0.0	4495.7	4495.7	945.7	1125.8
17.490	-36.8	-26.5	0.0	0.0	4495.7	4495.7	926.4	1286.6
18.947	-55.2	-39.8	0.0	0.0	4495.7	4495.7	868.4	1206.2
20.405	-73.6	-53.0	0.0	0.0	4495.7	4495.7	810.5	1125.7
21.550	-88.1	-63.4	0.0	0.0	4144.7	4144.7	734.6	1020.3
21.862	-92.0	-66.3	0.0	0.0	4098.8	4098.8	713.9	991.5
22.550	-100.7	-72.5	0.0	0.0	3834.7	3834.7	668.4	928.3
23.320	-110.4	-79.5	0.0	0.0	3601.9	3601.9	617.3	857.4
23.638	-114.4	-82.4	0.0	0.0	3547.2	3547.2	587.8	816.4
24.778	-128.8	-92.8	0.0	0.0	3164.9	3164.9	482.1	669.6
25.550	-138.6	-99.8	0.0	0.0	2860.6	2860.6	410.5	570.1
26.235	-147.2	-106.0	0.0	0.0	2651.8	2651.8	346.9	481.9
26.550	-151.2	-108.9	0.0	0.0	2523.8	2523.8	309.4	429.7
27.692	-165.6	-119.3	0.0	0.0	2185.1	2185.1	173.1	240.4
28.550	-176.5	-127.1	0.0	0.0	1835.5	1835.5	70.8	98.4
29.149	-184.0	-132.5	0.0	0.0	815.1	815.1	-0.8	-0.6
29.151	3.6	5.0	0.0	0.0	811.4	811.4	-1.0	-0.7
29.540	0.1	0.1	0.0	0.0	20.3	20.3	-0.0	-0.0

Viga 2. Tras la transferencia del pretesado
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1	V_u	V_{nmax}	V_r	V_u/V_r	Observaciones
(m)	(kN)	(kN)	(kN)		

-0.390	0.1	2211.3	1990.2	0.000	Cumple
-0.001	5.0	2211.3	1990.2	0.003	Cumple
0.001	184.0	2211.3	1990.2	0.092	Cumple
0.600	176.5	2266.7	2040.0	0.087	Cumple
1.457	165.6	2257.6	2031.8	0.082	Cumple
2.600	151.2	2251.8	2026.7	0.075	Cumple
2.915	147.2	2250.3	2025.2	0.073	Cumple
3.600	138.6	2247.6	2022.8	0.069	Cumple
4.372	128.8	2239.5	2015.6	0.064	Cumple
5.512	114.4	2230.5	2007.4	0.057	Cumple
5.830	110.4	2228.7	2005.9	0.055	Cumple
6.600	100.7	2224.0	2001.6	0.050	Cumple
7.287	92.0	2219.7	1997.7	0.046	Cumple
7.600	88.1	2218.4	1996.6	0.044	Cumple
8.745	73.6	2213.6	1992.3	0.037	Cumple
10.202	55.2	2213.6	1992.3	0.028	Cumple
11.660	36.8	2213.6	1992.3	0.018	Cumple
13.117	18.4	2213.6	1992.3	0.009	Cumple
14.575	0.0	2213.6	1992.3	0.000	Cumple
16.032	18.4	2213.6	1992.3	0.009	Cumple
17.490	36.8	2213.6	1992.3	0.018	Cumple
18.947	55.2	2213.6	1992.3	0.028	Cumple
20.405	73.6	2213.6	1992.3	0.037	Cumple
21.550	88.1	2218.4	1996.6	0.044	Cumple
21.862	92.0	2219.7	1997.7	0.046	Cumple
22.550	100.7	2224.0	2001.6	0.050	Cumple
23.320	110.4	2228.7	2005.9	0.055	Cumple
23.638	114.4	2230.5	2007.4	0.057	Cumple
24.778	128.8	2239.5	2015.6	0.064	Cumple
25.550	138.6	2247.6	2022.8	0.069	Cumple
26.235	147.2	2250.3	2025.2	0.073	Cumple
26.550	151.2	2251.8	2026.7	0.075	Cumple
27.692	165.6	2257.6	2031.8	0.082	Cumple
28.550	176.5	2266.7	2040.0	0.087	Cumple
29.149	184.0	2211.3	1990.2	0.092	Cumple
29.151	5.0	2211.3	1990.2	0.003	Cumple
29.540	0.1	2211.3	1990.2	0.000	Cumple

Viga 2. Tras la transferencia del pretesado

Armadura de cortante

Distancia al eje 1	V_u	V_c	V_s	V_p	V_n	V_r	A_{st}	$A_{st\ min}$	$S_{max\ long}$
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(cm^2/m)	(cm^2/m)	(m)
-0.390	0.1	303.3	0.0	-0.0	303.3	273.0	0.0	0.0	0.610
-0.001	5.0	300.3	0.0	-0.0	300.3	270.3	0.0	0.0	0.610
0.001	132.5	174.4	0.0	-0.0	174.4	157.0	1.8	1.8	0.610
0.600	176.5	663.6	0.0	-0.0	663.6	597.2	1.8	1.8	0.610
1.457	165.6	395.9	0.0	-0.0	395.9	356.3	0.0	0.0	0.610
2.600	151.2	405.2	0.0	-0.0	405.2	364.7	0.0	0.0	0.610
2.915	147.2	405.3	0.0	-0.0	405.3	364.8	0.0	0.0	0.610
3.600	138.6	415.7	0.0	-0.0	415.7	374.1	0.0	0.0	0.610
4.372	128.8	423.7	0.0	-0.0	423.7	381.3	0.0	0.0	0.610
5.512	114.4	438.9	0.0	-0.0	438.9	395.0	0.0	0.0	0.610
5.830	110.4	436.3	0.0	-0.0	436.3	392.7	0.0	0.0	0.610
6.600	100.7	448.9	0.0	-0.0	448.9	404.0	0.0	0.0	0.610
7.287	92.0	456.5	0.0	-0.0	456.5	410.9	0.0	0.0	0.610
7.600	88.1	461.4	0.0	-0.0	461.4	415.3	0.0	0.0	0.610
8.745	73.6	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
10.202	55.2	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
11.660	36.8	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
13.117	18.4	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
14.575	0.0	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
16.032	18.4	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
17.490	36.8	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
18.947	55.2	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
20.405	73.6	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610

21.550	88.1	461.4	0.0	-0.0	461.4	415.3	0.0	0.0	0.610
21.862	92.0	456.5	0.0	-0.0	456.5	410.9	0.0	0.0	0.610
22.550	100.7	448.9	0.0	-0.0	448.9	404.0	0.0	0.0	0.610
23.320	110.4	436.3	0.0	-0.0	436.3	392.7	0.0	0.0	0.610
23.638	114.4	438.9	0.0	-0.0	438.9	395.0	0.0	0.0	0.610
24.778	128.8	423.7	0.0	-0.0	423.7	381.3	0.0	0.0	0.610
25.550	138.6	415.7	0.0	-0.0	415.7	374.1	0.0	0.0	0.610
26.235	147.2	405.3	0.0	-0.0	405.3	364.8	0.0	0.0	0.610
26.550	151.2	405.2	0.0	-0.0	405.2	364.7	0.0	0.0	0.610
27.692	165.6	395.9	0.0	-0.0	395.9	356.3	0.0	0.0	0.610
28.550	176.5	663.6	0.0	-0.0	663.6	597.2	1.8	1.8	0.610
29.149	132.5	174.4	0.0	-0.0	174.4	157.0	1.8	1.8	0.610
29.151	5.0	300.3	0.0	-0.0	300.3	270.3	0.0	0.0	0.610
29.540	0.1	303.3	0.0	-0.0	303.3	273.0	0.0	0.0	0.610

Viga 2. Tras la transferencia del pretesado
Armadura de cortante

Distancia al eje 1 (m)	θ (º)	b_0 (m)	d_v (m)	$f_{y\alpha d}$ (MPa)	β	v (kN/m²)	ε
-0.390	29.3	0.174	1.273	0.0	2.611	1	0.00010
-0.001	29.4	0.174	1.273	0.0	2.585	25	0.00011
0.001	39.3	0.174	1.273	500.0	1.501	664	0.00293
0.600	28.4	0.174	1.305	500.0	5.573	863	-0.00018
1.457	28.2	0.174	1.300	0.0	3.339	814	-0.00023
2.600	28.1	0.174	1.297	0.0	3.426	745	-0.00025
2.915	28.1	0.174	1.296	0.0	3.429	726	-0.00025
3.600	28.0	0.174	1.294	0.0	3.520	684	-0.00028
4.372	27.9	0.174	1.290	0.0	3.601	638	-0.00030
5.512	27.8	0.174	1.285	0.0	3.746	569	-0.00034
5.830	27.8	0.174	1.284	0.0	3.727	549	-0.00034
6.600	27.7	0.174	1.281	0.0	3.842	502	-0.00036
7.287	27.7	0.174	1.278	0.0	3.915	460	-0.00038
7.600	27.6	0.174	1.278	0.0	3.960	440	-0.00039
8.745	27.6	0.174	1.275	0.0	4.000	369	-0.00040
10.202	27.6	0.174	1.275	0.0	4.000	277	-0.00040
11.660	27.6	0.174	1.275	0.0	4.000	184	-0.00040
13.117	27.6	0.174	1.275	0.0	4.000	92	-0.00040
14.575	27.6	0.174	1.275	0.0	4.000	0	-0.00040
16.032	27.6	0.174	1.275	0.0	4.000	92	-0.00040
17.490	27.6	0.174	1.275	0.0	4.000	184	-0.00040
18.947	27.6	0.174	1.275	0.0	4.000	277	-0.00040
20.405	27.6	0.174	1.275	0.0	4.000	369	-0.00040
21.550	27.6	0.174	1.278	0.0	3.960	440	-0.00039
21.862	27.7	0.174	1.278	0.0	3.915	460	-0.00038
22.550	27.7	0.174	1.281	0.0	3.842	502	-0.00036
23.320	27.8	0.174	1.284	0.0	3.727	549	-0.00034
23.638	27.8	0.174	1.285	0.0	3.746	569	-0.00034
24.778	27.9	0.174	1.290	0.0	3.601	638	-0.00030
25.550	28.0	0.174	1.294	0.0	3.520	684	-0.00028
26.235	28.1	0.174	1.296	0.0	3.429	726	-0.00025
26.550	28.1	0.174	1.297	0.0	3.426	745	-0.00025
27.692	28.2	0.174	1.300	0.0	3.339	814	-0.00023
28.550	28.4	0.174	1.305	500.0	5.573	863	-0.00018
29.149	39.3	0.174	1.273	500.0	1.501	664	0.00293
29.151	29.4	0.174	1.273	0.0	2.585	25	0.00011
29.540	29.3	0.174	1.273	0.0	2.611	1	0.00010

Viga 2. Tras el hormigonado de la losa
Envolvente de esfuerzos.

Distancia al eje 1	Cortantes		Cortantes de pretensado		Axiles y flectores			
	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_{p-}	N_{p+}	M_{u-}	M_{u+}

(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.3	-0.2	0.0	0.0	19.4	19.4	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	773.3	773.3	-2.3	-1.6
0.001	300.3	417.1	0.0	0.0	776.8	776.8	-1.9	-1.4
0.600	288.0	399.9	0.0	0.0	1723.0	1723.0	160.5	222.9
1.457	270.3	375.4	0.0	0.0	2047.9	2047.9	392.3	544.9
2.600	246.7	342.7	0.0	0.0	2365.3	2365.3	701.1	973.8
2.915	240.3	333.7	0.0	0.0	2478.5	2478.5	786.2	1092.0
3.600	226.1	314.1	0.0	0.0	2677.9	2677.9	930.3	1292.0
4.372	210.2	292.0	0.0	0.0	2959.7	2959.7	1092.6	1517.6
5.512	186.7	259.4	0.0	0.0	3309.5	3309.5	1332.2	1850.3
5.830	180.2	250.3	0.0	0.0	3355.9	3355.9	1399.1	1943.1
6.600	164.3	228.2	0.0	0.0	3578.7	3578.7	1514.7	2103.7
7.287	150.2	208.6	0.0	0.0	3820.6	3820.6	1617.9	2247.1
7.600	143.7	199.6	0.0	0.0	3863.6	3863.6	1664.8	2312.3
8.745	120.1	166.8	0.0	0.0	4180.1	4180.1	1836.8	2551.1
10.202	90.1	125.1	0.0	0.0	4183.3	4183.3	1968.1	2733.5
11.660	60.1	83.4	0.0	0.0	4186.4	4186.4	2099.4	2915.8
13.117	30.0	41.7	0.0	0.0	4187.5	4187.5	2143.2	2551.4
14.575	0.0	0.0	0.0	0.0	4188.5	4188.5	2186.9	2186.9
16.032	-41.7	-30.0	0.0	0.0	4187.5	4187.5	2143.2	2551.4
17.490	-83.4	-60.1	0.0	0.0	4186.4	4186.4	2099.4	2915.8
18.947	-125.1	-90.1	0.0	0.0	4183.3	4183.3	1968.1	2733.5
20.405	-166.8	-120.1	0.0	0.0	4180.1	4180.1	1836.8	2551.1
21.550	-199.6	-143.7	0.0	0.0	3863.6	3863.6	1664.8	2312.3
21.862	-208.6	-150.2	0.0	0.0	3820.6	3820.6	1617.9	2247.1
22.550	-228.2	-164.3	0.0	0.0	3578.7	3578.7	1514.7	2103.7
23.320	-250.3	-180.2	0.0	0.0	3355.9	3355.9	1399.1	1943.1
23.638	-259.4	-186.7	0.0	0.0	3309.5	3309.5	1332.2	1850.3
24.778	-292.0	-210.2	0.0	0.0	2959.7	2959.7	1092.6	1517.6
25.550	-314.1	-226.1	0.0	0.0	2677.9	2677.9	930.3	1292.0
26.235	-333.7	-240.3	0.0	0.0	2478.5	2478.5	786.2	1092.0
26.550	-342.7	-246.7	0.0	0.0	2365.3	2365.3	701.1	973.8
27.692	-375.4	-270.3	0.0	0.0	2047.9	2047.9	392.3	544.9
28.550	-399.9	-288.0	0.0	0.0	1723.0	1723.0	160.5	222.9
29.149	-417.1	-300.3	0.0	0.0	776.8	776.8	-1.9	-1.4
29.151	8.2	11.4	0.0	0.0	773.3	773.3	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	19.4	19.4	-0.1	-0.0

Viga 2. Tras el hormigonado de la losa					
Verificación por agotamiento de las bielas de compresión					
Distancia al eje 1	V_u	V_{nmax}	V_r	V_u/V_r	Observaciones
(m)	(kN)	(kN)	(kN)		
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	417.1	2769.9	2492.9	0.167	Cumple
0.600	399.9	2839.2	2555.3	0.157	Cumple
1.457	375.4	2827.8	2545.0	0.148	Cumple
2.600	342.7	2820.6	2538.5	0.135	Cumple
2.915	333.7	2818.6	2536.8	0.132	Cumple
3.600	314.1	2815.3	2533.8	0.124	Cumple
4.372	292.0	2805.2	2524.7	0.116	Cumple
5.512	259.4	2793.9	2514.5	0.103	Cumple
5.830	250.3	2791.7	2512.5	0.100	Cumple
6.600	228.2	2785.7	2507.1	0.091	Cumple
7.287	208.6	2780.4	2502.3	0.083	Cumple
7.600	199.6	2778.8	2500.9	0.080	Cumple
8.745	166.8	2772.8	2495.5	0.067	Cumple
10.202	125.1	2772.8	2495.5	0.050	Cumple
11.660	83.4	2772.8	2495.5	0.033	Cumple
13.117	41.7	2772.8	2495.5	0.017	Cumple
14.575	0.0	2772.8	2495.5	0.000	Cumple
16.032	41.7	2772.8	2495.5	0.017	Cumple
17.490	83.4	2772.8	2495.5	0.033	Cumple
18.947	125.1	2772.8	2495.5	0.050	Cumple

20.405	166.8	2772.8	2495.5	0.067	Cumple
21.550	199.6	2778.8	2500.9	0.080	Cumple
21.862	208.6	2780.4	2502.3	0.083	Cumple
22.550	228.2	2785.7	2507.1	0.091	Cumple
23.320	250.3	2791.7	2512.5	0.100	Cumple
23.638	259.4	2793.9	2514.5	0.103	Cumple
24.778	292.0	2805.2	2524.7	0.116	Cumple
25.550	314.1	2815.3	2533.8	0.124	Cumple
26.235	333.7	2818.6	2536.8	0.132	Cumple
26.550	342.7	2820.6	2538.5	0.135	Cumple
27.692	375.4	2827.8	2545.0	0.148	Cumple
28.550	399.9	2839.2	2555.3	0.157	Cumple
29.149	417.1	2769.9	2492.9	0.167	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. Tras el hormigonado de la losa

Armadura de cortante

Distancia al eje 1	V_u	V_c	V_s	V_p	V_n	V_r	A_{st}	$A_{st\ min}$	$S_{max\ long}$
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(cm^2/m)	(cm^2/m)	(m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	417.1	113.5	350.0	-0.0	463.4	417.1	6.6	2.0	0.610
0.600	399.9	708.3	0.0	-0.0	708.3	637.5	2.0	2.0	0.610
1.457	375.4	731.3	0.0	-0.0	731.3	658.1	2.0	2.0	0.610
2.600	342.7	733.3	0.0	-0.0	733.3	660.0	2.0	2.0	0.610
2.915	333.7	729.7	0.0	-0.0	729.7	656.7	2.0	2.0	0.610
3.600	314.1	740.5	0.0	-0.0	740.5	666.5	2.0	2.0	0.610
4.372	292.0	745.3	0.0	-0.0	745.3	670.7	2.0	2.0	0.610
5.512	259.4	757.3	0.0	-0.0	757.3	681.6	2.0	2.0	0.610
5.830	250.3	750.2	0.0	-0.0	750.2	675.2	2.0	2.0	0.610
6.600	228.2	763.8	0.0	-0.0	763.8	687.4	2.0	2.0	0.610
7.287	208.6	770.2	0.0	-0.0	770.2	693.2	2.0	2.0	0.610
7.600	199.6	451.7	0.0	-0.0	451.7	406.5	0.0	0.0	0.610
8.745	166.8	460.4	0.0	-0.0	460.4	414.3	0.0	0.0	0.610
10.202	125.1	455.1	0.0	-0.0	455.1	409.6	0.0	0.0	0.610
11.660	83.4	450.0	0.0	-0.0	450.0	405.0	0.0	0.0	0.610
13.117	41.7	467.0	0.0	-0.0	467.0	420.3	0.0	0.0	0.610
14.575	0.0	485.2	0.0	-0.0	485.2	436.7	0.0	0.0	0.610
16.032	41.7	467.0	0.0	-0.0	467.0	420.3	0.0	0.0	0.610
17.490	83.4	450.0	0.0	-0.0	450.0	405.0	0.0	0.0	0.610
18.947	125.1	455.1	0.0	-0.0	455.1	409.6	0.0	0.0	0.610
20.405	166.8	460.4	0.0	-0.0	460.4	414.3	0.0	0.0	0.610
21.550	199.6	451.7	0.0	-0.0	451.7	406.5	0.0	0.0	0.610
21.862	208.6	770.2	0.0	-0.0	770.2	693.2	2.0	2.0	0.610
22.550	228.2	763.8	0.0	-0.0	763.8	687.4	2.0	2.0	0.610
23.320	250.3	750.2	0.0	-0.0	750.2	675.2	2.0	2.0	0.610
23.638	259.4	757.3	0.0	-0.0	757.3	681.6	2.0	2.0	0.610
24.778	292.0	745.3	0.0	-0.0	745.3	670.7	2.0	2.0	0.610
25.550	314.1	740.5	0.0	-0.0	740.5	666.5	2.0	2.0	0.610
26.235	333.7	729.7	0.0	-0.0	729.7	656.7	2.0	2.0	0.610
26.550	342.7	733.3	0.0	-0.0	733.3	660.0	2.0	2.0	0.610
27.692	375.4	731.3	0.0	-0.0	731.3	658.1	2.0	2.0	0.610
28.550	399.9	708.3	0.0	-0.0	708.3	637.5	2.0	2.0	0.610
29.149	417.1	113.5	350.0	-0.0	463.4	417.1	6.6	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. Tras el hormigonado de la losa

Armadura de cortante

Distancia al eje 1	θ	b_0	d_v	$f_{y\ \alpha d}$	β	v	ε
(m)	(º)	(m)	(m)	(MPa)		(kN/m^2)	

-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	2091	0.00600
0.600	28.5	0.174	1.305	500.0	5.315	1956	-0.00013
1.457	28.4	0.174	1.300	500.0	5.509	1844	-0.00017
2.600	28.4	0.174	1.297	500.0	5.539	1688	-0.00018
2.915	28.4	0.174	1.296	500.0	5.515	1644	-0.00017
3.600	28.3	0.174	1.294	500.0	5.604	1550	-0.00019
4.372	28.3	0.174	1.290	500.0	5.660	1446	-0.00020
5.512	28.2	0.174	1.285	500.0	5.775	1289	-0.00023
5.830	28.2	0.174	1.284	500.0	5.725	1245	-0.00022
6.600	28.2	0.174	1.281	500.0	5.841	1138	-0.00024
7.287	28.1	0.174	1.278	500.0	5.902	1042	-0.00025
7.600	28.1	0.174	1.278	0.0	3.463	998	-0.00026
8.745	28.0	0.174	1.275	0.0	3.537	836	-0.00028
10.202	28.1	0.174	1.275	0.0	3.497	627	-0.00027
11.660	28.1	0.174	1.275	0.0	3.458	418	-0.00025
13.117	28.0	0.174	1.275	0.0	3.588	209	-0.00029
14.575	27.8	0.174	1.275	0.0	3.728	0	-0.00033
16.032	28.0	0.174	1.275	0.0	3.588	209	-0.00029
17.490	28.1	0.174	1.275	0.0	3.458	418	-0.00025
18.947	28.1	0.174	1.275	0.0	3.497	627	-0.00027
20.405	28.0	0.174	1.275	0.0	3.537	836	-0.00028
21.550	28.1	0.174	1.278	0.0	3.463	998	-0.00026
21.862	28.1	0.174	1.278	500.0	5.902	1042	-0.00025
22.550	28.2	0.174	1.281	500.0	5.841	1138	-0.00024
23.320	28.2	0.174	1.284	500.0	5.725	1245	-0.00022
23.638	28.2	0.174	1.285	500.0	5.775	1289	-0.00023
24.778	28.3	0.174	1.290	500.0	5.660	1446	-0.00020
25.550	28.3	0.174	1.294	500.0	5.604	1550	-0.00019
26.235	28.4	0.174	1.296	500.0	5.515	1644	-0.00017
26.550	28.4	0.174	1.297	500.0	5.539	1688	-0.00018
27.692	28.4	0.174	1.300	500.0	5.509	1844	-0.00017
28.550	28.5	0.174	1.305	500.0	5.315	1956	-0.00013
29.149	50.0	0.174	1.273	500.0	0.873	2091	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. Tras la disposición de la superestructura
Envolvente de esfuerzos.

	Cortantes		Cortantes de pretensado		Axiles y flectores			
Distancia al eje 1	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_{p-}	N_{p+}	M_{u-}	M_{u+}
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.3	-0.2	0.0	0.0	19.4	19.4	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	773.3	773.3	-2.3	-1.6
0.001	367.7	531.8	0.0	0.0	776.8	776.8	-1.1	-0.7
0.600	354.2	512.5	0.0	0.0	1723.0	1723.0	201.8	292.7
1.457	335.0	485.0	0.0	0.0	2047.9	2047.9	491.6	713.3
2.600	307.9	445.8	0.0	0.0	2365.3	2365.3	873.3	1265.0
2.915	300.2	434.4	0.0	0.0	2478.5	2478.5	977.7	1415.3
3.600	283.3	409.7	0.0	0.0	2677.9	2677.9	1163.4	1685.1
4.372	263.9	381.5	0.0	0.0	2959.7	2959.7	1368.7	1981.9
5.512	235.1	339.6	0.0	0.0	3309.5	3309.5	1667.7	2413.1
5.830	227.1	327.9	0.0	0.0	3355.9	3355.9	1751.1	2533.5
6.600	207.3	299.3	0.0	0.0	3578.7	3578.7	1899.5	2748.0
7.287	189.6	273.8	0.0	0.0	3820.6	3820.6	2032.0	2939.5
7.600	181.6	262.1	0.0	0.0	3863.6	3863.6	2092.2	3026.6
8.745	152.0	219.3	0.0	0.0	4180.1	4180.1	2302.9	3329.0
10.202	114.2	164.7	0.0	0.0	4183.3	4183.3	2476.1	3580.1
11.660	76.2	109.9	0.0	0.0	4186.4	4186.4	2639.1	3814.3
13.117	38.1	55.0	0.0	0.0	4187.5	4187.5	2698.7	3336.2
14.575	-1.7	1.7	0.0	0.0	4188.5	4188.5	2840.9	2840.9
16.032	-55.0	-38.1	0.0	0.0	4187.5	4187.5	2698.7	3336.2
17.490	-109.9	-76.2	0.0	0.0	4186.4	4186.4	2639.1	3814.3

18.947	-164.7	-114.2	0.0	0.0	4183.3	4183.3	2476.1	3580.1
20.405	-219.3	-152.0	0.0	0.0	4180.1	4180.1	2302.9	3329.0
21.550	-262.1	-181.6	0.0	0.0	3863.6	3863.6	2092.2	3026.6
21.862	-273.8	-189.6	0.0	0.0	3820.6	3820.6	2032.0	2939.5
22.550	-299.3	-207.3	0.0	0.0	3578.7	3578.7	1899.5	2748.0
23.320	-327.9	-227.1	0.0	0.0	3355.9	3355.9	1751.1	2533.5
23.638	-339.6	-235.1	0.0	0.0	3309.5	3309.5	1667.7	2413.1
24.778	-381.5	-263.9	0.0	0.0	2959.7	2959.7	1368.7	1981.9
25.550	-409.7	-283.3	0.0	0.0	2677.9	2677.9	1163.4	1685.1
26.235	-434.4	-300.2	0.0	0.0	2478.5	2478.5	977.7	1415.3
26.550	-445.8	-307.9	0.0	0.0	2365.3	2365.3	873.3	1265.0
27.692	-485.0	-335.0	0.0	0.0	2047.9	2047.9	491.6	713.3
28.550	-512.5	-354.2	0.0	0.0	1723.0	1723.0	201.8	292.7
29.149	-531.8	-367.7	0.0	0.0	776.8	776.8	-1.1	-0.7
29.151	8.2	11.4	0.0	0.0	773.3	773.3	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	19.4	19.4	-0.1	-0.0

Viga 2. Tras la disposición de la superestructura
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1	V_u	V_{nmax}	V_r	V_u/V_r	Observaciones
(m)	(kN)	(kN)	(kN)		
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	531.8	2769.9	2492.9	0.213	Cumple
0.600	512.5	3230.7	2907.6	0.176	Cumple
1.457	485.0	3219.3	2897.4	0.167	Cumple
2.600	445.8	3212.1	2890.9	0.154	Cumple
2.915	434.4	3210.1	2889.1	0.150	Cumple
3.600	409.7	3206.8	2886.1	0.142	Cumple
4.372	381.5	3196.7	2877.0	0.133	Cumple
5.512	339.6	3185.4	2866.8	0.118	Cumple
5.830	327.9	3183.2	2864.9	0.114	Cumple
6.600	299.3	3177.2	2859.5	0.105	Cumple
7.287	273.8	3171.9	2854.7	0.096	Cumple
7.600	262.1	3170.3	2853.2	0.092	Cumple
8.745	219.3	3164.3	2847.8	0.077	Cumple
10.202	164.7	3164.3	2847.8	0.058	Cumple
11.660	109.9	3164.3	2847.8	0.039	Cumple
13.117	55.0	3164.3	2847.8	0.019	Cumple
14.575	1.7	3164.3	2847.8	0.001	Cumple
16.032	55.0	3164.3	2847.8	0.019	Cumple
17.490	109.9	3164.3	2847.8	0.039	Cumple
18.947	164.7	3164.3	2847.8	0.058	Cumple
20.405	219.3	3164.3	2847.8	0.077	Cumple
21.550	262.1	3170.3	2853.2	0.092	Cumple
21.862	273.8	3171.9	2854.7	0.096	Cumple
22.550	299.3	3177.2	2859.5	0.105	Cumple
23.320	327.9	3183.2	2864.9	0.114	Cumple
23.638	339.6	3185.4	2866.8	0.118	Cumple
24.778	381.5	3196.7	2877.0	0.133	Cumple
25.550	409.7	3206.8	2886.1	0.142	Cumple
26.235	434.4	3210.1	2889.1	0.150	Cumple
26.550	445.8	3212.1	2890.9	0.154	Cumple
27.692	485.0	3219.3	2897.4	0.167	Cumple
28.550	512.5	3230.7	2907.6	0.176	Cumple
29.149	531.8	2769.9	2492.9	0.213	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. Tras la disposición de la superestructura
Armadura de cortante

Distancia al eje 1	V_u	V_c	V_s	V_p	V_n	V_r	A_{st}	$A_{st\ min}$	$S_{max\ long}$
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(cm^2/m)	(cm^2/m)	(m)

-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	531.8	113.5	477.4	-0.0	590.8	531.8	8.9	2.0	0.610
0.600	512.5	767.2	0.0	-0.0	767.2	690.5	2.0	2.0	0.610
1.457	485.0	789.2	0.0	-0.0	789.2	710.3	2.0	2.0	0.610
2.600	445.8	785.9	0.0	-0.0	785.9	707.3	2.0	2.0	0.610
2.915	434.4	781.1	0.0	-0.0	781.1	703.0	2.0	2.0	0.610
3.600	409.7	787.2	0.0	-0.0	787.2	708.5	2.0	2.0	0.610
4.372	381.5	787.5	0.0	-0.0	787.5	708.7	2.0	2.0	0.610
5.512	339.6	791.8	0.0	-0.0	791.8	712.7	2.0	2.0	0.610
5.830	327.9	785.4	0.0	-0.0	785.4	706.9	2.0	2.0	0.610
6.600	299.3	793.8	0.0	-0.0	793.8	714.4	2.0	2.0	0.610
7.287	273.8	796.1	0.0	-0.0	796.1	716.5	2.0	2.0	0.610
7.600	262.1	799.3	0.0	-0.0	799.3	719.3	2.0	2.0	0.610
8.745	219.3	805.8	0.0	-0.0	805.8	725.2	2.0	2.0	0.610
10.202	164.7	431.6	0.0	-0.0	431.6	388.4	0.0	0.0	0.610
11.660	109.9	427.7	0.0	-0.0	427.7	384.9	0.0	0.0	0.610
13.117	55.0	443.6	0.0	-0.0	443.6	399.2	0.0	0.0	0.610
14.575	1.7	461.1	0.0	-0.0	461.1	415.0	0.0	0.0	0.610
16.032	55.0	443.6	0.0	-0.0	443.6	399.2	0.0	0.0	0.610
17.490	109.9	427.7	0.0	-0.0	427.7	384.9	0.0	0.0	0.610
18.947	164.7	431.6	0.0	-0.0	431.6	388.4	0.0	0.0	0.610
20.405	219.3	805.8	0.0	-0.0	805.8	725.2	2.0	2.0	0.610
21.550	262.1	799.3	0.0	-0.0	799.3	719.3	2.0	2.0	0.610
21.862	273.8	796.1	0.0	-0.0	796.1	716.5	2.0	2.0	0.610
22.550	299.3	793.8	0.0	-0.0	793.8	714.4	2.0	2.0	0.610
23.320	327.9	785.4	0.0	-0.0	785.4	706.9	2.0	2.0	0.610
23.638	339.6	791.8	0.0	-0.0	791.8	712.7	2.0	2.0	0.610
24.778	381.5	787.5	0.0	-0.0	787.5	708.7	2.0	2.0	0.610
25.550	409.7	787.2	0.0	-0.0	787.2	708.5	2.0	2.0	0.610
26.235	434.4	781.1	0.0	-0.0	781.1	703.0	2.0	2.0	0.610
26.550	445.8	785.9	0.0	-0.0	785.9	707.3	2.0	2.0	0.610
27.692	485.0	789.2	0.0	-0.0	789.2	710.3	2.0	2.0	0.610
28.550	512.5	767.2	0.0	-0.0	767.2	690.5	2.0	2.0	0.610
29.149	531.8	113.5	477.4	-0.0	590.8	531.8	8.9	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. Tras la disposición de la superestructura
Armadura de cortante

Distancia al eje 1 (m)	θ (º)	b_0 (m)	d_v (m)	$f_{y\,\alpha d}$ (MPa)	β	v (kN/m^2)	ε
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	2666	0.00600
0.600	28.8	0.174	1.485	500.0	5.059	2203	-0.00007
1.457	28.6	0.174	1.480	500.0	5.223	2092	-0.00011
2.600	28.6	0.174	1.477	500.0	5.213	1927	-0.00011
2.915	28.7	0.174	1.476	500.0	5.184	1879	-0.00010
3.600	28.6	0.174	1.474	500.0	5.230	1775	-0.00011
4.372	28.6	0.174	1.470	500.0	5.248	1658	-0.00011
5.512	28.6	0.174	1.465	500.0	5.296	1481	-0.00012
5.830	28.6	0.174	1.464	500.0	5.257	1431	-0.00012
6.600	28.5	0.174	1.461	500.0	5.323	1308	-0.00013
7.287	28.5	0.174	1.458	500.0	5.347	1199	-0.00014
7.600	28.5	0.174	1.458	500.0	5.371	1148	-0.00014
8.745	28.5	0.174	1.455	500.0	5.425	963	-0.00015
10.202	28.5	0.174	1.455	0.0	2.906	723	-0.00014
11.660	28.5	0.174	1.455	0.0	2.880	482	-0.00013
13.117	28.4	0.174	1.455	0.0	2.986	241	-0.00017
14.575	28.2	0.174	1.455	0.0	3.104	8	-0.00022
16.032	28.4	0.174	1.455	0.0	2.986	241	-0.00017
17.490	28.5	0.174	1.455	0.0	2.880	482	-0.00013
18.947	28.5	0.174	1.455	0.0	2.906	723	-0.00014

20.405	28.5	0.174	1.455	500.0	5.425	963	-0.00015
21.550	28.5	0.174	1.458	500.0	5.371	1148	-0.00014
21.862	28.5	0.174	1.458	500.0	5.347	1199	-0.00014
22.550	28.5	0.174	1.461	500.0	5.323	1308	-0.00013
23.320	28.6	0.174	1.464	500.0	5.257	1431	-0.00012
23.638	28.6	0.174	1.465	500.0	5.296	1481	-0.00012
24.778	28.6	0.174	1.470	500.0	5.248	1658	-0.00011
25.550	28.6	0.174	1.474	500.0	5.230	1775	-0.00011
26.235	28.7	0.174	1.476	500.0	5.184	1879	-0.00010
26.550	28.6	0.174	1.477	500.0	5.213	1927	-0.00011
27.692	28.6	0.174	1.480	500.0	5.223	2092	-0.00011
28.550	28.8	0.174	1.485	500.0	5.059	2203	-0.00007
29.149	50.0	0.174	1.273	500.0	0.873	2666	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. Tras la apertura al tráfico
Envolvente de esfuerzos.

Distancia al eje 1	Cortantes		Cortantes de pretensado		Axiles y flectores			
	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_{p-}	N_{p+}	M_{u-}	M_{u+}
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.3	-0.2	0.0	0.0	19.4	19.4	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	773.3	773.3	-2.3	-1.6
0.001	354.9	1085.5	0.0	0.0	776.8	776.8	-5.5	0.3
0.600	340.7	1055.9	0.0	0.0	1723.0	1723.0	220.7	602.7
1.457	320.5	1013.4	0.0	0.0	2047.9	2047.9	536.3	1473.4
2.600	284.0	941.2	0.0	0.0	2365.3	2365.3	1068.9	2525.6
2.915	272.0	918.1	0.0	0.0	2478.5	2478.5	1238.6	2793.6
3.600	245.8	868.0	0.0	0.0	2677.9	2677.9	1566.5	3319.5
4.372	216.0	814.7	0.0	0.0	2959.7	2959.7	1896.7	3850.0
5.512	171.7	739.0	0.0	0.0	3309.5	3309.5	2349.3	4578.0
5.830	159.3	717.9	0.0	0.0	3355.9	3355.9	2475.7	4781.2
6.600	131.2	669.7	0.0	0.0	3578.7	3578.7	2690.5	5129.6
7.287	106.1	626.6	0.0	0.0	3820.6	3820.6	2882.4	5440.7
7.600	94.7	607.1	0.0	0.0	3863.6	3863.6	2969.6	5582.1
8.745	46.5	536.2	0.0	0.0	4180.1	4180.1	3356.1	5981.2
10.202	-12.9	445.3	0.0	0.0	4183.3	4183.3	3731.2	6322.6
11.660	-65.3	352.8	0.0	0.0	4186.4	4186.4	4016.8	6627.8
13.117	-114.3	256.6	0.0	0.0	4187.5	4187.5	4154.9	5680.4
14.575	-173.7	173.7	0.0	0.0	4188.5	4188.5	4675.9	4675.9
16.032	-256.6	114.3	0.0	0.0	4187.5	4187.5	4154.9	5680.4
17.490	-352.8	65.3	0.0	0.0	4186.4	4186.4	4016.8	6627.8
18.947	-445.3	12.9	0.0	0.0	4183.3	4183.3	3731.2	6322.6
20.405	-536.2	-46.5	0.0	0.0	4180.1	4180.1	3356.1	5981.2
21.550	-607.1	-94.7	0.0	0.0	3863.6	3863.6	2969.6	5582.1
21.862	-626.6	-106.1	0.0	0.0	3820.6	3820.6	2882.4	5440.7
22.550	-669.7	-131.2	0.0	0.0	3578.7	3578.7	2690.5	5129.6
23.320	-717.9	-159.3	0.0	0.0	3355.9	3355.9	2475.7	4781.2
23.638	-739.0	-171.7	0.0	0.0	3309.5	3309.5	2349.3	4578.0
24.778	-814.7	-216.0	0.0	0.0	2959.7	2959.7	1896.7	3850.0
25.550	-868.0	-245.8	0.0	0.0	2677.9	2677.9	1566.5	3319.5
26.235	-918.1	-272.0	0.0	0.0	2478.5	2478.5	1238.6	2793.6
26.550	-941.2	-284.0	0.0	0.0	2365.3	2365.3	1068.9	2525.6
27.692	-1013.4	-320.5	0.0	0.0	2047.9	2047.9	536.3	1473.4
28.550	-1055.9	-340.7	0.0	0.0	1723.0	1723.0	220.7	602.7
29.149	-1085.5	-354.9	0.0	0.0	776.8	776.8	-5.5	0.3
29.151	8.2	11.4	0.0	0.0	773.3	773.3	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	19.4	19.4	-0.1	-0.0

Viga 2. Tras la apertura al tráfico
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1	V_u	V_{nmax}	V_r	V_u/V_r	Observaciones

(m)	(kN)	(kN)	(kN)		
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	1085.5	2769.9	2492.9	0.435	Cumple
0.600	1055.9	3230.7	2907.6	0.363	Cumple
1.457	1013.4	3219.3	2897.4	0.350	Cumple
2.600	941.2	3212.1	2890.9	0.326	Cumple
2.915	918.1	3210.1	2889.1	0.318	Cumple
3.600	868.0	3206.8	2886.1	0.301	Cumple
4.372	814.7	3196.7	2877.0	0.283	Cumple
5.512	739.0	3185.4	2866.8	0.258	Cumple
5.830	717.9	3183.2	2864.9	0.251	Cumple
6.600	669.7	3177.2	2859.5	0.234	Cumple
7.287	626.6	3171.9	2854.7	0.220	Cumple
7.600	607.1	3170.3	2853.2	0.213	Cumple
8.745	536.2	3164.3	2847.8	0.188	Cumple
10.202	445.3	3164.3	2847.8	0.156	Cumple
11.660	352.8	3164.3	2847.8	0.124	Cumple
13.117	256.6	3164.3	2847.8	0.090	Cumple
14.575	173.7	3164.3	2847.8	0.061	Cumple
16.032	256.6	3164.3	2847.8	0.090	Cumple
17.490	352.8	3164.3	2847.8	0.124	Cumple
18.947	445.3	3164.3	2847.8	0.156	Cumple
20.405	536.2	3164.3	2847.8	0.188	Cumple
21.550	607.1	3170.3	2853.2	0.213	Cumple
21.862	626.6	3171.9	2854.7	0.220	Cumple
22.550	669.7	3177.2	2859.5	0.234	Cumple
23.320	717.9	3183.2	2864.9	0.251	Cumple
23.638	739.0	3185.4	2866.8	0.258	Cumple
24.778	814.7	3196.7	2877.0	0.283	Cumple
25.550	868.0	3206.8	2886.1	0.301	Cumple
26.235	918.1	3210.1	2889.1	0.318	Cumple
26.550	941.2	3212.1	2890.9	0.326	Cumple
27.692	1013.4	3219.3	2897.4	0.350	Cumple
28.550	1055.9	3230.7	2907.6	0.363	Cumple
29.149	1085.5	2769.9	2492.9	0.435	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. Tras la apertura al tráfico									
Armadura de cortante									
Distancia al eje 1	V_u	V_c	V_s	V_p	V_n	V_r	A_{st}	$A_{st\ min}$	$S_{max\ long}$
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(cm^2/m)	(cm^2/m)	(m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	1085.5	113.5	1092.7	-0.0	1206.2	1085.5	20.5	2.0	0.610
0.600	1055.9	467.5	705.7	-0.0	1173.2	1055.9	5.8	2.0	0.610
1.457	1013.4	629.9	496.0	-0.0	1126.0	1013.4	3.8	2.0	0.610
2.600	941.2	491.7	554.1	-0.0	1045.8	941.2	4.5	2.0	0.610
2.915	918.1	454.1	566.0	-0.0	1020.1	918.1	4.7	2.0	0.610
3.600	868.0	447.6	516.9	-0.0	964.4	868.0	4.4	2.0	0.610
4.372	814.7	432.0	473.2	-0.0	905.2	814.7	4.0	2.0	0.610
5.512	739.0	428.0	393.1	-0.0	821.1	739.0	3.4	2.0	0.610
5.830	717.9	404.1	393.5	-0.0	797.6	717.9	3.4	2.0	0.610
6.600	669.7	424.4	319.7	-0.0	744.1	669.7	2.8	2.0	0.610
7.287	626.6	428.9	267.4	-0.0	696.3	626.6	2.3	2.0	0.610
7.600	607.1	435.1	239.4	-0.0	674.5	607.1	2.1	2.0	0.610
8.745	536.2	459.2	136.6	-0.0	595.8	536.2	1.2	2.0	0.610
10.202	445.3	432.0	62.8	-0.0	494.8	445.3	0.5	2.0	0.610
11.660	352.8	412.4	0.0	-0.0	412.4	371.1	2.0	2.0	0.610
13.117	256.6	604.6	0.0	-0.0	604.6	544.1	2.0	2.0	0.610
14.575	173.7	403.5	0.0	-0.0	403.5	363.2	0.0	0.0	0.610
16.032	256.6	604.6	0.0	-0.0	604.6	544.1	2.0	2.0	0.610
17.490	352.8	412.4	0.0	-0.0	412.4	371.1	2.0	2.0	0.610
18.947	445.3	432.0	62.8	-0.0	494.8	445.3	0.5	2.0	0.610

20.405	536.2	459.2	136.6	-0.0	595.8	536.2	1.2	2.0	0.610
21.550	607.1	435.1	239.4	-0.0	674.5	607.1	2.1	2.0	0.610
21.862	626.6	428.9	267.4	-0.0	696.3	626.6	2.3	2.0	0.610
22.550	669.7	424.4	319.7	-0.0	744.1	669.7	2.8	2.0	0.610
23.320	717.9	404.1	393.5	-0.0	797.6	717.9	3.4	2.0	0.610
23.638	739.0	428.0	393.1	-0.0	821.1	739.0	3.4	2.0	0.610
24.778	814.7	432.0	473.2	-0.0	905.2	814.7	4.0	2.0	0.610
25.550	868.0	447.6	516.9	-0.0	964.4	868.0	4.4	2.0	0.610
26.235	918.1	454.1	566.0	-0.0	1020.1	918.1	4.7	2.0	0.610
26.550	941.2	491.7	554.1	-0.0	1045.8	941.2	4.5	2.0	0.610
27.692	1013.4	629.9	496.0	-0.0	1126.0	1013.4	3.8	2.0	0.610
28.550	1055.9	467.5	705.7	-0.0	1173.2	1055.9	5.8	2.0	0.610
29.149	1085.5	113.5	1092.7	-0.0	1206.2	1085.5	20.5	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. Tras la apertura al tráfico
Armadura de cortante

Distancia al eje 1 (m)	θ (º)	b_0 (m)	d_v (m)	$f_{y\,\alpha d}$ (MPa)	β	v (kN/m2)	ε
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	5443	0.00600
0.600	31.6	0.174	1.485	500.0	3.083	4539	0.00074
1.457	29.7	0.174	1.480	500.0	4.169	4372	0.00020
2.600	31.2	0.174	1.477	500.0	3.261	4070	0.00063
2.915	31.8	0.174	1.476	500.0	3.014	3972	0.00079
3.600	31.9	0.174	1.474	500.0	2.973	3759	0.00082
4.372	32.1	0.174	1.470	500.0	2.879	3540	0.00089
5.512	32.2	0.174	1.465	500.0	2.863	3222	0.00090
5.830	32.6	0.174	1.464	500.0	2.705	3132	0.00103
6.600	32.2	0.174	1.461	500.0	2.846	2927	0.00092
7.287	32.1	0.174	1.458	500.0	2.881	2744	0.00089
7.600	32.0	0.174	1.458	500.0	2.924	2660	0.00086
8.745	31.6	0.174	1.455	500.0	3.092	2354	0.00074
10.202	32.0	0.174	1.455	500.0	2.909	1955	0.00087
11.660	32.4	0.174	1.455	500.0	2.776	1549	0.00097
13.117	29.8	0.174	1.455	500.0	4.071	1126	0.00024
14.575	28.8	0.174	1.455	0.0	2.717	762	-0.00006
16.032	29.8	0.174	1.455	500.0	4.071	1126	0.00024
17.490	32.4	0.174	1.455	500.0	2.776	1549	0.00097
18.947	32.0	0.174	1.455	500.0	2.909	1955	0.00087
20.405	31.6	0.174	1.455	500.0	3.092	2354	0.00074
21.550	32.0	0.174	1.458	500.0	2.924	2660	0.00086
21.862	32.1	0.174	1.458	500.0	2.881	2744	0.00089
22.550	32.2	0.174	1.461	500.0	2.846	2927	0.00092
23.320	32.6	0.174	1.464	500.0	2.705	3132	0.00103
23.638	32.2	0.174	1.465	500.0	2.863	3222	0.00090
24.778	32.1	0.174	1.470	500.0	2.879	3540	0.00089
25.550	31.9	0.174	1.474	500.0	2.973	3759	0.00082
26.235	31.8	0.174	1.476	500.0	3.014	3972	0.00079
26.550	31.2	0.174	1.477	500.0	3.261	4070	0.00063
27.692	29.7	0.174	1.480	500.0	4.169	4372	0.00020
28.550	31.6	0.174	1.485	500.0	3.083	4539	0.00074
29.149	50.0	0.174	1.273	500.0	0.873	5443	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. A tiempo infinito
Envolvente de esfuerzos.

	Cortantes		Cortantes de pretensado		Axiles y flectores			
Distancia al	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_p -	N_p +	M_u -	M_u +

eje 1								
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.3	-0.2	0.0	0.0	18.6	18.6	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	742.6	742.6	-2.3	-1.6
0.001	354.9	1085.5	0.0	0.0	745.9	745.9	-5.5	0.3
0.600	340.7	1055.9	0.0	0.0	1616.0	1616.0	220.7	602.7
1.457	320.5	1013.4	0.0	0.0	1918.0	1918.0	536.3	1473.4
2.600	284.0	941.2	0.0	0.0	2218.1	2218.1	1068.9	2525.6
2.915	272.0	918.1	0.0	0.0	2318.1	2318.1	1238.6	2793.6
3.600	245.8	868.0	0.0	0.0	2509.5	2509.5	1566.5	3319.5
4.372	216.0	814.7	0.0	0.0	2771.4	2771.4	1896.7	3850.0
5.512	171.7	739.0	0.0	0.0	3092.0	3092.0	2349.3	4578.0
5.830	159.3	717.9	0.0	0.0	3132.7	3132.7	2475.7	4781.2
6.600	131.2	669.7	0.0	0.0	3345.6	3345.6	2690.5	5129.6
7.287	106.1	626.6	0.0	0.0	3567.5	3567.5	2882.4	5440.7
7.600	94.7	607.1	0.0	0.0	3608.4	3608.4	2969.6	5582.1
8.745	46.5	536.2	0.0	0.0	3892.8	3892.8	3356.1	5981.2
10.202	-12.9	445.3	0.0	0.0	3903.1	3903.1	3731.2	6322.6
11.660	-65.3	352.8	0.0	0.0	3912.9	3912.9	4016.8	6627.8
13.117	-114.3	256.6	0.0	0.0	3916.4	3916.4	4154.9	5680.4
14.575	-173.7	173.7	0.0	0.0	3919.4	3919.4	4675.9	4675.9
16.032	-256.6	114.3	0.0	0.0	3916.4	3916.4	4154.9	5680.4
17.490	-352.8	65.3	0.0	0.0	3912.9	3912.9	4016.8	6627.8
18.947	-445.3	12.9	0.0	0.0	3903.1	3903.1	3731.2	6322.6
20.405	-536.2	-46.5	0.0	0.0	3892.8	3892.8	3356.1	5981.2
21.550	-607.1	-94.7	0.0	0.0	3608.4	3608.4	2969.6	5582.1
21.862	-626.6	-106.1	0.0	0.0	3567.5	3567.5	2882.4	5440.7
22.550	-669.7	-131.2	0.0	0.0	3345.6	3345.6	2690.5	5129.6
23.320	-717.9	-159.3	0.0	0.0	3132.7	3132.7	2475.7	4781.2
23.638	-739.0	-171.7	0.0	0.0	3092.0	3092.0	2349.3	4578.0
24.778	-814.7	-216.0	0.0	0.0	2771.4	2771.4	1896.7	3850.0
25.550	-868.0	-245.8	0.0	0.0	2509.5	2509.5	1566.5	3319.5
26.235	-918.1	-272.0	0.0	0.0	2318.1	2318.1	1238.6	2793.6
26.550	-941.2	-284.0	0.0	0.0	2218.1	2218.1	1068.9	2525.6
27.692	-1013.4	-320.5	0.0	0.0	1918.0	1918.0	536.3	1473.4
28.550	-1055.9	-340.7	0.0	0.0	1616.0	1616.0	220.7	602.7
29.149	-1085.5	-354.9	0.0	0.0	745.9	745.9	-5.5	0.3
29.151	8.2	11.4	0.0	0.0	742.6	742.6	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	18.6	18.6	-0.1	-0.0

Viga 2. A tiempo infinito					
Verificación por agotamiento de las bielas de compresión					
Distancia al eje 1	V_u	V_{nmax}	V_r	V_u/V_r	Observaciones
(m)	(kN)	(kN)	(kN)		
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	1085.5	2769.9	2492.9	0.435	Cumple
0.600	1055.9	3230.7	2907.6	0.363	Cumple
1.457	1013.4	3219.3	2897.4	0.350	Cumple
2.600	941.2	3212.1	2890.9	0.326	Cumple
2.915	918.1	3210.1	2889.1	0.318	Cumple
3.600	868.0	3206.8	2886.1	0.301	Cumple
4.372	814.7	3196.7	2877.0	0.283	Cumple
5.512	739.0	3185.4	2866.8	0.258	Cumple
5.830	717.9	3183.2	2864.9	0.251	Cumple
6.600	669.7	3177.2	2859.5	0.234	Cumple
7.287	626.6	3171.9	2854.7	0.220	Cumple
7.600	607.1	3170.3	2853.2	0.213	Cumple
8.745	536.2	3164.3	2847.8	0.188	Cumple
10.202	445.3	3164.3	2847.8	0.156	Cumple
11.660	352.8	3164.3	2847.8	0.124	Cumple
13.117	256.6	3164.3	2847.8	0.090	Cumple
14.575	173.7	3164.3	2847.8	0.061	Cumple
16.032	256.6	3164.3	2847.8	0.090	Cumple
17.490	352.8	3164.3	2847.8	0.124	Cumple

18.947	445.3	3164.3	2847.8	0.156	Cumple
20.405	536.2	3164.3	2847.8	0.188	Cumple
21.550	607.1	3170.3	2853.2	0.213	Cumple
21.862	626.6	3171.9	2854.7	0.220	Cumple
22.550	669.7	3177.2	2859.5	0.234	Cumple
23.320	717.9	3183.2	2864.9	0.251	Cumple
23.638	739.0	3185.4	2866.8	0.258	Cumple
24.778	814.7	3196.7	2877.0	0.283	Cumple
25.550	868.0	3206.8	2886.1	0.301	Cumple
26.235	918.1	3210.1	2889.1	0.318	Cumple
26.550	941.2	3212.1	2890.9	0.326	Cumple
27.692	1013.4	3219.3	2897.4	0.350	Cumple
28.550	1055.9	3230.7	2907.6	0.363	Cumple
29.149	1085.5	2769.9	2492.9	0.435	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. A tiempo infinito

Armadura de cortante

Distancia al eje 1	V_u	V_c	V_s	V_p	V_n	V_r	A_{st}	$A_{st\ min}$	$S_{max\ long}$
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(cm^2/m)	(cm^2/m)	(m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	1085.5	113.5	1092.7	-0.0	1206.2	1085.5	20.5	2.0	0.610
0.600	1055.9	467.5	705.7	-0.0	1173.2	1055.9	5.8	2.0	0.610
1.457	1013.4	629.9	496.0	-0.0	1126.0	1013.4	3.8	2.0	0.610
2.600	941.2	491.7	554.1	-0.0	1045.8	941.2	4.5	2.0	0.610
2.915	918.1	454.1	566.0	-0.0	1020.1	918.1	4.7	2.0	0.610
3.600	868.0	447.6	516.9	-0.0	964.4	868.0	4.4	2.0	0.610
4.372	814.7	432.0	473.2	-0.0	905.2	814.7	4.0	2.0	0.610
5.512	739.0	428.0	393.1	-0.0	821.1	739.0	3.4	2.0	0.610
5.830	717.9	404.1	393.5	-0.0	797.6	717.9	3.4	2.0	0.610
6.600	669.7	424.4	319.7	-0.0	744.1	669.7	2.8	2.0	0.610
7.287	626.6	428.9	267.4	-0.0	696.3	626.6	2.3	2.0	0.610
7.600	607.1	435.1	239.4	-0.0	674.5	607.1	2.1	2.0	0.610
8.745	536.2	459.2	136.6	-0.0	595.8	536.2	1.2	2.0	0.610
10.202	445.3	432.0	62.8	-0.0	494.8	445.3	0.5	2.0	0.610
11.660	352.8	412.4	0.0	-0.0	412.4	371.1	2.0	2.0	0.610
13.117	256.6	604.6	0.0	-0.0	604.6	544.1	2.0	2.0	0.610
14.575	173.7	403.5	0.0	-0.0	403.5	363.2	0.0	0.0	0.610
16.032	256.6	604.6	0.0	-0.0	604.6	544.1	2.0	2.0	0.610
17.490	352.8	412.4	0.0	-0.0	412.4	371.1	2.0	2.0	0.610
18.947	445.3	432.0	62.8	-0.0	494.8	445.3	0.5	2.0	0.610
20.405	536.2	459.2	136.6	-0.0	595.8	536.2	1.2	2.0	0.610
21.550	607.1	435.1	239.4	-0.0	674.5	607.1	2.1	2.0	0.610
21.862	626.6	428.9	267.4	-0.0	696.3	626.6	2.3	2.0	0.610
22.550	669.7	424.4	319.7	-0.0	744.1	669.7	2.8	2.0	0.610
23.320	717.9	404.1	393.5	-0.0	797.6	717.9	3.4	2.0	0.610
23.638	739.0	428.0	393.1	-0.0	821.1	739.0	3.4	2.0	0.610
24.778	814.7	432.0	473.2	-0.0	905.2	814.7	4.0	2.0	0.610
25.550	868.0	447.6	516.9	-0.0	964.4	868.0	4.4	2.0	0.610
26.235	918.1	454.1	566.0	-0.0	1020.1	918.1	4.7	2.0	0.610
26.550	941.2	491.7	554.1	-0.0	1045.8	941.2	4.5	2.0	0.610
27.692	1013.4	629.9	496.0	-0.0	1126.0	1013.4	3.8	2.0	0.610
28.550	1055.9	467.5	705.7	-0.0	1173.2	1055.9	5.8	2.0	0.610
29.149	1085.5	113.5	1092.7	-0.0	1206.2	1085.5	20.5	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. A tiempo infinito

Armadura de cortante

Distancia al eje 1	θ	b_0	d_v	$f_{y\ \alpha d}$	β	ν	ε

(m)	(º)	(m)	(m)	(MPa)		(kN/m2)	
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	5443	0.00600
0.600	31.6	0.174	1.485	500.0	3.083	4539	0.00074
1.457	29.7	0.174	1.480	500.0	4.169	4372	0.00020
2.600	31.2	0.174	1.477	500.0	3.261	4070	0.00063
2.915	31.8	0.174	1.476	500.0	3.014	3972	0.00079
3.600	31.9	0.174	1.474	500.0	2.973	3759	0.00082
4.372	32.1	0.174	1.470	500.0	2.879	3540	0.00089
5.512	32.2	0.174	1.465	500.0	2.863	3222	0.00090
5.830	32.6	0.174	1.464	500.0	2.705	3132	0.00103
6.600	32.2	0.174	1.461	500.0	2.846	2927	0.00092
7.287	32.1	0.174	1.458	500.0	2.881	2744	0.00089
7.600	32.0	0.174	1.458	500.0	2.924	2660	0.00086
8.745	31.6	0.174	1.455	500.0	3.092	2354	0.00074
10.202	32.0	0.174	1.455	500.0	2.909	1955	0.00087
11.660	32.4	0.174	1.455	500.0	2.776	1549	0.00097
13.117	29.8	0.174	1.455	500.0	4.071	1126	0.00024
14.575	28.8	0.174	1.455	0.0	2.717	762	-0.00006
16.032	29.8	0.174	1.455	500.0	4.071	1126	0.00024
17.490	32.4	0.174	1.455	500.0	2.776	1549	0.00097
18.947	32.0	0.174	1.455	500.0	2.909	1955	0.00087
20.405	31.6	0.174	1.455	500.0	3.092	2354	0.00074
21.550	32.0	0.174	1.458	500.0	2.924	2660	0.00086
21.862	32.1	0.174	1.458	500.0	2.881	2744	0.00089
22.550	32.2	0.174	1.461	500.0	2.846	2927	0.00092
23.320	32.6	0.174	1.464	500.0	2.705	3132	0.00103
23.638	32.2	0.174	1.465	500.0	2.863	3222	0.00090
24.778	32.1	0.174	1.470	500.0	2.879	3540	0.00089
25.550	31.9	0.174	1.474	500.0	2.973	3759	0.00082
26.235	31.8	0.174	1.476	500.0	3.014	3972	0.00079
26.550	31.2	0.174	1.477	500.0	3.261	4070	0.00063
27.692	29.7	0.174	1.480	500.0	4.169	4372	0.00020
28.550	31.6	0.174	1.485	500.0	3.083	4539	0.00074
29.149	50.0	0.174	1.273	500.0	0.873	5443	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

5.3 Estado límite de Resistencia. Combinación de Resistencia III

Viga 2:

Viga 2. Tras la transferencia del pretesado
Envolvente de esfuerzos.

Distancia al eje 1 (m)	Cortantes V_{u-} (kN)	Cortantes V_{u+} (kN)	Cortantes de pretensado V_{p-} (kN)	V_{p+} (kN)	Axiles y flectores N_{p-} (kN)	N_{p+} (kN)	M_{u-} (kNm)	M_{u+} (kNm)
-0.390	-0.1	-0.1	0.0	0.0	20.3	20.3	-0.0	-0.0
-0.001	-5.0	-3.6	0.0	0.0	811.4	811.4	-1.0	-0.7
0.001	132.5	184.0	0.0	0.0	815.1	815.1	-0.8	-0.6
0.600	127.1	176.5	0.0	0.0	1835.5	1835.5	70.8	98.4
1.457	119.3	165.6	0.0	0.0	2185.1	2185.1	173.1	240.4
2.600	108.9	151.2	0.0	0.0	2523.8	2523.8	309.4	429.7
2.915	106.0	147.2	0.0	0.0	2651.8	2651.8	346.9	481.9
3.600	99.8	138.6	0.0	0.0	2860.6	2860.6	410.5	570.1
4.372	92.8	128.8	0.0	0.0	3164.9	3164.9	482.1	669.6
5.512	82.4	114.4	0.0	0.0	3547.2	3547.2	587.8	816.4
5.830	79.5	110.4	0.0	0.0	3601.9	3601.9	617.3	857.4
6.600	72.5	100.7	0.0	0.0	3834.7	3834.7	668.4	928.3
7.287	66.3	92.0	0.0	0.0	4098.8	4098.8	713.9	991.5
7.600	63.4	88.1	0.0	0.0	4144.7	4144.7	734.6	1020.3

8.745	53.0	73.6	0.0	0.0	4495.7	4495.7	810.5	1125.7
10.202	39.8	55.2	0.0	0.0	4495.7	4495.7	868.4	1206.2
11.660	26.5	36.8	0.0	0.0	4495.7	4495.7	926.4	1286.6
13.117	13.3	18.4	0.0	0.0	4495.7	4495.7	945.7	1125.8
14.575	0.0	0.0	0.0	0.0	4495.7	4495.7	965.0	965.0
16.032	-18.4	-13.3	0.0	0.0	4495.7	4495.7	945.7	1125.8
17.490	-36.8	-26.5	0.0	0.0	4495.7	4495.7	926.4	1286.6
18.947	-55.2	-39.8	0.0	0.0	4495.7	4495.7	868.4	1206.2
20.405	-73.6	-53.0	0.0	0.0	4495.7	4495.7	810.5	1125.7
21.550	-88.1	-63.4	0.0	0.0	4144.7	4144.7	734.6	1020.3
21.862	-92.0	-66.3	0.0	0.0	4098.8	4098.8	713.9	991.5
22.550	-100.7	-72.5	0.0	0.0	3834.7	3834.7	668.4	928.3
23.320	-110.4	-79.5	0.0	0.0	3601.9	3601.9	617.3	857.4
23.638	-114.4	-82.4	0.0	0.0	3547.2	3547.2	587.8	816.4
24.778	-128.8	-92.8	0.0	0.0	3164.9	3164.9	482.1	669.6
25.550	-138.6	-99.8	0.0	0.0	2860.6	2860.6	410.5	570.1
26.235	-147.2	-106.0	0.0	0.0	2651.8	2651.8	346.9	481.9
26.550	-151.2	-108.9	0.0	0.0	2523.8	2523.8	309.4	429.7
27.692	-165.6	-119.3	0.0	0.0	2185.1	2185.1	173.1	240.4
28.550	-176.5	-127.1	0.0	0.0	1835.5	1835.5	70.8	98.4
29.149	-184.0	-132.5	0.0	0.0	815.1	815.1	-0.8	-0.6
29.151	3.6	5.0	0.0	0.0	811.4	811.4	-1.0	-0.7
29.540	0.1	0.1	0.0	0.0	20.3	20.3	-0.0	-0.0

Viga 2. Tras la transferencia del pretesado

Verificación por agotamiento de las bielas de compresión

Distancia al eje 1	V_u	V_{nmax}	V_r	V_u/V_r	Observaciones
(m)	(kN)	(kN)	(kN)		
-0.390	0.1	2211.3	1990.2	0.000	Cumple
-0.001	5.0	2211.3	1990.2	0.003	Cumple
0.001	184.0	2211.3	1990.2	0.092	Cumple
0.600	176.5	2266.7	2040.0	0.087	Cumple
1.457	165.6	2257.6	2031.8	0.082	Cumple
2.600	151.2	2251.8	2026.7	0.075	Cumple
2.915	147.2	2250.3	2025.2	0.073	Cumple
3.600	138.6	2247.6	2022.8	0.069	Cumple
4.372	128.8	2239.5	2015.6	0.064	Cumple
5.512	114.4	2230.5	2007.4	0.057	Cumple
5.830	110.4	2228.7	2005.9	0.055	Cumple
6.600	100.7	2224.0	2001.6	0.050	Cumple
7.287	92.0	2219.7	1997.7	0.046	Cumple
7.600	88.1	2218.4	1996.6	0.044	Cumple
8.745	73.6	2213.6	1992.3	0.037	Cumple
10.202	55.2	2213.6	1992.3	0.028	Cumple
11.660	36.8	2213.6	1992.3	0.018	Cumple
13.117	18.4	2213.6	1992.3	0.009	Cumple
14.575	0.0	2213.6	1992.3	0.000	Cumple
16.032	18.4	2213.6	1992.3	0.009	Cumple
17.490	36.8	2213.6	1992.3	0.018	Cumple
18.947	55.2	2213.6	1992.3	0.028	Cumple
20.405	73.6	2213.6	1992.3	0.037	Cumple
21.550	88.1	2218.4	1996.6	0.044	Cumple
21.862	92.0	2219.7	1997.7	0.046	Cumple
22.550	100.7	2224.0	2001.6	0.050	Cumple
23.320	110.4	2228.7	2005.9	0.055	Cumple
23.638	114.4	2230.5	2007.4	0.057	Cumple
24.778	128.8	2239.5	2015.6	0.064	Cumple
25.550	138.6	2247.6	2022.8	0.069	Cumple
26.235	147.2	2250.3	2025.2	0.073	Cumple
26.550	151.2	2251.8	2026.7	0.075	Cumple
27.692	165.6	2257.6	2031.8	0.082	Cumple
28.550	176.5	2266.7	2040.0	0.087	Cumple
29.149	184.0	2211.3	1990.2	0.092	Cumple
29.151	5.0	2211.3	1990.2	0.003	Cumple
29.540	0.1	2211.3	1990.2	0.000	Cumple

Viga 2. Tras la transferencia del pretesado
Armadura de cortante

Distancia al eje 1 (m)	V_u (kN)	V_c (kN)	V_s (kN)	V_p (kN)	V_n (kN)	V_r (kN)	A_{st} (cm^2/m)	$A_{st\ min}$ (cm^2/m)	$S_{max\ long}$ (m)
-0.390	0.1	303.3	0.0	-0.0	303.3	273.0	0.0	0.0	0.610
-0.001	5.0	300.3	0.0	-0.0	300.3	270.3	0.0	0.0	0.610
0.001	132.5	174.4	0.0	-0.0	174.4	157.0	1.8	1.8	0.610
0.600	176.5	663.6	0.0	-0.0	663.6	597.2	1.8	1.8	0.610
1.457	165.6	395.9	0.0	-0.0	395.9	356.3	0.0	0.0	0.610
2.600	151.2	405.2	0.0	-0.0	405.2	364.7	0.0	0.0	0.610
2.915	147.2	405.3	0.0	-0.0	405.3	364.8	0.0	0.0	0.610
3.600	138.6	415.7	0.0	-0.0	415.7	374.1	0.0	0.0	0.610
4.372	128.8	423.7	0.0	-0.0	423.7	381.3	0.0	0.0	0.610
5.512	114.4	438.9	0.0	-0.0	438.9	395.0	0.0	0.0	0.610
5.830	110.4	436.3	0.0	-0.0	436.3	392.7	0.0	0.0	0.610
6.600	100.7	448.9	0.0	-0.0	448.9	404.0	0.0	0.0	0.610
7.287	92.0	456.5	0.0	-0.0	456.5	410.9	0.0	0.0	0.610
7.600	88.1	461.4	0.0	-0.0	461.4	415.3	0.0	0.0	0.610
8.745	73.6	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
10.202	55.2	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
11.660	36.8	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
13.117	18.4	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
14.575	0.0	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
16.032	18.4	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
17.490	36.8	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
18.947	55.2	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
20.405	73.6	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
21.550	88.1	461.4	0.0	-0.0	461.4	415.3	0.0	0.0	0.610
21.862	92.0	456.5	0.0	-0.0	456.5	410.9	0.0	0.0	0.610
22.550	100.7	448.9	0.0	-0.0	448.9	404.0	0.0	0.0	0.610
23.320	110.4	436.3	0.0	-0.0	436.3	392.7	0.0	0.0	0.610
23.638	114.4	438.9	0.0	-0.0	438.9	395.0	0.0	0.0	0.610
24.778	128.8	423.7	0.0	-0.0	423.7	381.3	0.0	0.0	0.610
25.550	138.6	415.7	0.0	-0.0	415.7	374.1	0.0	0.0	0.610
26.235	147.2	405.3	0.0	-0.0	405.3	364.8	0.0	0.0	0.610
26.550	151.2	405.2	0.0	-0.0	405.2	364.7	0.0	0.0	0.610
27.692	165.6	395.9	0.0	-0.0	395.9	356.3	0.0	0.0	0.610
28.550	176.5	663.6	0.0	-0.0	663.6	597.2	1.8	1.8	0.610
29.149	132.5	174.4	0.0	-0.0	174.4	157.0	1.8	1.8	0.610
29.151	5.0	300.3	0.0	-0.0	300.3	270.3	0.0	0.0	0.610
29.540	0.1	303.3	0.0	-0.0	303.3	273.0	0.0	0.0	0.610

Viga 2. Tras la transferencia del pretesado
Armadura de cortante

Distancia al eje 1 (m)	θ (º)	b_0 (m)	d_v (m)	$f_{y\,\alpha d}$ (MPa)	β	v (kN/m^2)	ε
-0.390	29.3	0.174	1.273	0.0	2.611	1	0.00010
-0.001	29.4	0.174	1.273	0.0	2.585	25	0.00011
0.001	39.3	0.174	1.273	500.0	1.501	664	0.00293
0.600	28.4	0.174	1.305	500.0	5.573	863	-0.00018
1.457	28.2	0.174	1.300	0.0	3.339	814	-0.00023
2.600	28.1	0.174	1.297	0.0	3.426	745	-0.00025
2.915	28.1	0.174	1.296	0.0	3.429	726	-0.00025
3.600	28.0	0.174	1.294	0.0	3.520	684	-0.00028
4.372	27.9	0.174	1.290	0.0	3.601	638	-0.00030
5.512	27.8	0.174	1.285	0.0	3.746	569	-0.00034
5.830	27.8	0.174	1.284	0.0	3.727	549	-0.00034
6.600	27.7	0.174	1.281	0.0	3.842	502	-0.00036
7.287	27.7	0.174	1.278	0.0	3.915	460	-0.00038
7.600	27.6	0.174	1.278	0.0	3.960	440	-0.00039
8.745	27.6	0.174	1.275	0.0	4.000	369	-0.00040

10.202	27.6	0.174	1.275	0.0	4.000	277	-0.00040
11.660	27.6	0.174	1.275	0.0	4.000	184	-0.00040
13.117	27.6	0.174	1.275	0.0	4.000	92	-0.00040
14.575	27.6	0.174	1.275	0.0	4.000	0	-0.00040
16.032	27.6	0.174	1.275	0.0	4.000	92	-0.00040
17.490	27.6	0.174	1.275	0.0	4.000	184	-0.00040
18.947	27.6	0.174	1.275	0.0	4.000	277	-0.00040
20.405	27.6	0.174	1.275	0.0	4.000	369	-0.00040
21.550	27.6	0.174	1.278	0.0	3.960	440	-0.00039
21.862	27.7	0.174	1.278	0.0	3.915	460	-0.00038
22.550	27.7	0.174	1.281	0.0	3.842	502	-0.00036
23.320	27.8	0.174	1.284	0.0	3.727	549	-0.00034
23.638	27.8	0.174	1.285	0.0	3.746	569	-0.00034
24.778	27.9	0.174	1.290	0.0	3.601	638	-0.00030
25.550	28.0	0.174	1.294	0.0	3.520	684	-0.00028
26.235	28.1	0.174	1.296	0.0	3.429	726	-0.00025
26.550	28.1	0.174	1.297	0.0	3.426	745	-0.00025
27.692	28.2	0.174	1.300	0.0	3.339	814	-0.00023
28.550	28.4	0.174	1.305	500.0	5.573	863	-0.00018
29.149	39.3	0.174	1.273	500.0	1.501	664	0.00293
29.151	29.4	0.174	1.273	0.0	2.585	25	0.00011
29.540	29.3	0.174	1.273	0.0	2.611	1	0.00010

Viga 2. Tras el hormigonado de la losa

Envolvente de esfuerzos.

Distancia al eje 1	Cortantes		Cortantes de pretensado		Axiles y flectores			
	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_{p-}	N_{p+}	M_{u-}	M_{u+}
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.3	-0.2	0.0	0.0	19.4	19.4	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	773.3	773.3	-2.3	-1.6
0.001	300.3	417.1	0.0	0.0	776.8	776.8	-1.9	-1.4
0.600	288.0	399.9	0.0	0.0	1723.0	1723.0	160.5	222.9
1.457	270.3	375.4	0.0	0.0	2047.9	2047.9	392.3	544.9
2.600	246.7	342.7	0.0	0.0	2365.3	2365.3	701.1	973.8
2.915	240.3	333.7	0.0	0.0	2478.5	2478.5	786.2	1092.0
3.600	226.1	314.1	0.0	0.0	2677.9	2677.9	930.3	1292.0
4.372	210.2	292.0	0.0	0.0	2959.7	2959.7	1092.6	1517.6
5.512	186.7	259.4	0.0	0.0	3309.5	3309.5	1332.2	1850.3
5.830	180.2	250.3	0.0	0.0	3355.9	3355.9	1399.1	1943.1
6.600	164.3	228.2	0.0	0.0	3578.7	3578.7	1514.7	2103.7
7.287	150.2	208.6	0.0	0.0	3820.6	3820.6	1617.9	2247.1
7.600	143.7	199.6	0.0	0.0	3863.6	3863.6	1664.8	2312.3
8.745	120.1	166.8	0.0	0.0	4180.1	4180.1	1836.8	2551.1
10.202	90.1	125.1	0.0	0.0	4183.3	4183.3	1968.1	2733.5
11.660	60.1	83.4	0.0	0.0	4186.4	4186.4	2099.4	2915.8
13.117	30.0	41.7	0.0	0.0	4187.5	4187.5	2143.2	2551.4
14.575	0.0	0.0	0.0	0.0	4188.5	4188.5	2186.9	2186.9
16.032	-41.7	-30.0	0.0	0.0	4187.5	4187.5	2143.2	2551.4
17.490	-83.4	-60.1	0.0	0.0	4186.4	4186.4	2099.4	2915.8
18.947	-125.1	-90.1	0.0	0.0	4183.3	4183.3	1968.1	2733.5
20.405	-166.8	-120.1	0.0	0.0	4180.1	4180.1	1836.8	2551.1
21.550	-199.6	-143.7	0.0	0.0	3863.6	3863.6	1664.8	2312.3
21.862	-208.6	-150.2	0.0	0.0	3820.6	3820.6	1617.9	2247.1
22.550	-228.2	-164.3	0.0	0.0	3578.7	3578.7	1514.7	2103.7
23.320	-250.3	-180.2	0.0	0.0	3355.9	3355.9	1399.1	1943.1
23.638	-259.4	-186.7	0.0	0.0	3309.5	3309.5	1332.2	1850.3
24.778	-292.0	-210.2	0.0	0.0	2959.7	2959.7	1092.6	1517.6
25.550	-314.1	-226.1	0.0	0.0	2677.9	2677.9	930.3	1292.0
26.235	-333.7	-240.3	0.0	0.0	2478.5	2478.5	786.2	1092.0
26.550	-342.7	-246.7	0.0	0.0	2365.3	2365.3	701.1	973.8
27.692	-375.4	-270.3	0.0	0.0	2047.9	2047.9	392.3	544.9
28.550	-399.9	-288.0	0.0	0.0	1723.0	1723.0	160.5	222.9
29.149	-417.1	-300.3	0.0	0.0	776.8	776.8	-1.9	-1.4
29.151	8.2	11.4	0.0	0.0	773.3	773.3	-2.3	-1.6

29.540	0.2	0.3	0.0	0.0	19.4	19.4	-0.1	-0.0

Viga 2. Tras el hormigonado de la losa
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1 (m)	V_u (kN)	V_{nmax} (kN)	V_r (kN)	V_u/V_r	Observaciones
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	417.1	2769.9	2492.9	0.167	Cumple
0.600	399.9	2839.2	2555.3	0.157	Cumple
1.457	375.4	2827.8	2545.0	0.148	Cumple
2.600	342.7	2820.6	2538.5	0.135	Cumple
2.915	333.7	2818.6	2536.8	0.132	Cumple
3.600	314.1	2815.3	2533.8	0.124	Cumple
4.372	292.0	2805.2	2524.7	0.116	Cumple
5.512	259.4	2793.9	2514.5	0.103	Cumple
5.830	250.3	2791.7	2512.5	0.100	Cumple
6.600	228.2	2785.7	2507.1	0.091	Cumple
7.287	208.6	2780.4	2502.3	0.083	Cumple
7.600	199.6	2778.8	2500.9	0.080	Cumple
8.745	166.8	2772.8	2495.5	0.067	Cumple
10.202	125.1	2772.8	2495.5	0.050	Cumple
11.660	83.4	2772.8	2495.5	0.033	Cumple
13.117	41.7	2772.8	2495.5	0.017	Cumple
14.575	0.0	2772.8	2495.5	0.000	Cumple
16.032	41.7	2772.8	2495.5	0.017	Cumple
17.490	83.4	2772.8	2495.5	0.033	Cumple
18.947	125.1	2772.8	2495.5	0.050	Cumple
20.405	166.8	2772.8	2495.5	0.067	Cumple
21.550	199.6	2778.8	2500.9	0.080	Cumple
21.862	208.6	2780.4	2502.3	0.083	Cumple
22.550	228.2	2785.7	2507.1	0.091	Cumple
23.320	250.3	2791.7	2512.5	0.100	Cumple
23.638	259.4	2793.9	2514.5	0.103	Cumple
24.778	292.0	2805.2	2524.7	0.116	Cumple
25.550	314.1	2815.3	2533.8	0.124	Cumple
26.235	333.7	2818.6	2536.8	0.132	Cumple
26.550	342.7	2820.6	2538.5	0.135	Cumple
27.692	375.4	2827.8	2545.0	0.148	Cumple
28.550	399.9	2839.2	2555.3	0.157	Cumple
29.149	417.1	2769.9	2492.9	0.167	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. Tras el hormigonado de la losa
Armadura de cortante

Distancia al eje 1 (m)	V_u (kN)	V_c (kN)	V_s (kN)	V_p (kN)	V_n (kN)	V_r (kN)	A_{st} (cm^2/m)	$A_{st\ min}$ (cm^2/m)	$S_{max\ long}$ (m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	417.1	113.5	350.0	-0.0	463.4	417.1	6.6	2.0	0.610
0.600	399.9	708.3	0.0	-0.0	708.3	637.5	2.0	2.0	0.610
1.457	375.4	731.3	0.0	-0.0	731.3	658.1	2.0	2.0	0.610
2.600	342.7	733.3	0.0	-0.0	733.3	660.0	2.0	2.0	0.610
2.915	333.7	729.7	0.0	-0.0	729.7	656.7	2.0	2.0	0.610
3.600	314.1	740.5	0.0	-0.0	740.5	666.5	2.0	2.0	0.610
4.372	292.0	745.3	0.0	-0.0	745.3	670.7	2.0	2.0	0.610
5.512	259.4	757.3	0.0	-0.0	757.3	681.6	2.0	2.0	0.610
5.830	250.3	750.2	0.0	-0.0	750.2	675.2	2.0	2.0	0.610
6.600	228.2	763.8	0.0	-0.0	763.8	687.4	2.0	2.0	0.610
7.287	208.6	770.2	0.0	-0.0	770.2	693.2	2.0	2.0	0.610
7.600	199.6	451.7	0.0	-0.0	451.7	406.5	0.0	0.0	0.610
8.745	166.8	460.4	0.0	-0.0	460.4	414.3	0.0	0.0	0.610

10.202	125.1	455.1	0.0	-0.0	455.1	409.6	0.0	0.0	0.610
11.660	83.4	450.0	0.0	-0.0	450.0	405.0	0.0	0.0	0.610
13.117	41.7	467.0	0.0	-0.0	467.0	420.3	0.0	0.0	0.610
14.575	0.0	485.2	0.0	-0.0	485.2	436.7	0.0	0.0	0.610
16.032	41.7	467.0	0.0	-0.0	467.0	420.3	0.0	0.0	0.610
17.490	83.4	450.0	0.0	-0.0	450.0	405.0	0.0	0.0	0.610
18.947	125.1	455.1	0.0	-0.0	455.1	409.6	0.0	0.0	0.610
20.405	166.8	460.4	0.0	-0.0	460.4	414.3	0.0	0.0	0.610
21.550	199.6	451.7	0.0	-0.0	451.7	406.5	0.0	0.0	0.610
21.862	208.6	770.2	0.0	-0.0	770.2	693.2	2.0	2.0	0.610
22.550	228.2	763.8	0.0	-0.0	763.8	687.4	2.0	2.0	0.610
23.320	250.3	750.2	0.0	-0.0	750.2	675.2	2.0	2.0	0.610
23.638	259.4	757.3	0.0	-0.0	757.3	681.6	2.0	2.0	0.610
24.778	292.0	745.3	0.0	-0.0	745.3	670.7	2.0	2.0	0.610
25.550	314.1	740.5	0.0	-0.0	740.5	666.5	2.0	2.0	0.610
26.235	333.7	729.7	0.0	-0.0	729.7	656.7	2.0	2.0	0.610
26.550	342.7	733.3	0.0	-0.0	733.3	660.0	2.0	2.0	0.610
27.692	375.4	731.3	0.0	-0.0	731.3	658.1	2.0	2.0	0.610
28.550	399.9	708.3	0.0	-0.0	708.3	637.5	2.0	2.0	0.610
29.149	417.1	113.5	350.0	-0.0	463.4	417.1	6.6	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. Tras el hormigonado de la losa

Armadura de cortante

Distancia al eje 1	θ	b_0	d_v	$f_{y\alpha d}$	β	v	ε
(m)	(º)	(m)	(m)	(MPa)		(kN/m^2)	
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	2091	0.00600
0.600	28.5	0.174	1.305	500.0	5.315	1956	-0.00013
1.457	28.4	0.174	1.300	500.0	5.509	1844	-0.00017
2.600	28.4	0.174	1.297	500.0	5.539	1688	-0.00018
2.915	28.4	0.174	1.296	500.0	5.515	1644	-0.00017
3.600	28.3	0.174	1.294	500.0	5.604	1550	-0.00019
4.372	28.3	0.174	1.290	500.0	5.660	1446	-0.00020
5.512	28.2	0.174	1.285	500.0	5.775	1289	-0.00023
5.830	28.2	0.174	1.284	500.0	5.725	1245	-0.00022
6.600	28.2	0.174	1.281	500.0	5.841	1138	-0.00024
7.287	28.1	0.174	1.278	500.0	5.902	1042	-0.00025
7.600	28.1	0.174	1.278	0.0	3.463	998	-0.00026
8.745	28.0	0.174	1.275	0.0	3.537	836	-0.00028
10.202	28.1	0.174	1.275	0.0	3.497	627	-0.00027
11.660	28.1	0.174	1.275	0.0	3.458	418	-0.00025
13.117	28.0	0.174	1.275	0.0	3.588	209	-0.00029
14.575	27.8	0.174	1.275	0.0	3.728	0	-0.00033
16.032	28.0	0.174	1.275	0.0	3.588	209	-0.00029
17.490	28.1	0.174	1.275	0.0	3.458	418	-0.00025
18.947	28.1	0.174	1.275	0.0	3.497	627	-0.00027
20.405	28.0	0.174	1.275	0.0	3.537	836	-0.00028
21.550	28.1	0.174	1.278	0.0	3.463	998	-0.00026
21.862	28.1	0.174	1.278	500.0	5.902	1042	-0.00025
22.550	28.2	0.174	1.281	500.0	5.841	1138	-0.00024
23.320	28.2	0.174	1.284	500.0	5.725	1245	-0.00022
23.638	28.2	0.174	1.285	500.0	5.775	1289	-0.00023
24.778	28.3	0.174	1.290	500.0	5.660	1446	-0.00020
25.550	28.3	0.174	1.294	500.0	5.604	1550	-0.00019
26.235	28.4	0.174	1.296	500.0	5.515	1644	-0.00017
26.550	28.4	0.174	1.297	500.0	5.539	1688	-0.00018
27.692	28.4	0.174	1.300	500.0	5.509	1844	-0.00017
28.550	28.5	0.174	1.305	500.0	5.315	1956	-0.00013
29.149	50.0	0.174	1.273	500.0	0.873	2091	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. Tras la disposición de la superestructura
Envolvente de esfuerzos.

Distancia al eje 1 (m)	Cortantes V_{u-} (kN)	Cortantes V_{u+} (kN)	Cortantes de pretensado V_{p-} (kN)	V_{p+} (kN)	Axiles y flectores N_{p-} (kN)	N_{p+} (kN)	M_{u-} (kNm)	M_{u+} (kNm)
-0.390	-0.3	-0.2	0.0	0.0	19.4	19.4	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	773.3	773.3	-2.3	-1.6
0.001	367.7	531.8	0.0	0.0	776.8	776.8	-1.1	-0.7
0.600	354.2	512.5	0.0	0.0	1723.0	1723.0	201.8	292.7
1.457	335.0	485.0	0.0	0.0	2047.9	2047.9	491.6	713.3
2.600	307.9	445.8	0.0	0.0	2365.3	2365.3	873.3	1265.0
2.915	300.2	434.4	0.0	0.0	2478.5	2478.5	977.7	1415.3
3.600	283.3	409.7	0.0	0.0	2677.9	2677.9	1163.4	1685.1
4.372	263.9	381.5	0.0	0.0	2959.7	2959.7	1368.7	1981.9
5.512	235.1	339.6	0.0	0.0	3309.5	3309.5	1667.7	2413.1
5.830	227.1	327.9	0.0	0.0	3355.9	3355.9	1751.1	2533.5
6.600	207.3	299.3	0.0	0.0	3578.7	3578.7	1899.5	2748.0
7.287	189.6	273.8	0.0	0.0	3820.6	3820.6	2032.0	2939.5
7.600	181.6	262.1	0.0	0.0	3863.6	3863.6	2092.2	3026.6
8.745	152.0	219.3	0.0	0.0	4180.1	4180.1	2302.9	3329.0
10.202	114.2	164.7	0.0	0.0	4183.3	4183.3	2476.1	3580.1
11.660	76.2	109.9	0.0	0.0	4186.4	4186.4	2639.1	3814.3
13.117	38.1	55.0	0.0	0.0	4187.5	4187.5	2698.7	3336.2
14.575	-1.7	1.7	0.0	0.0	4188.5	4188.5	2840.9	2840.9
16.032	-55.0	-38.1	0.0	0.0	4187.5	4187.5	2698.7	3336.2
17.490	-109.9	-76.2	0.0	0.0	4186.4	4186.4	2639.1	3814.3
18.947	-164.7	-114.2	0.0	0.0	4183.3	4183.3	2476.1	3580.1
20.405	-219.3	-152.0	0.0	0.0	4180.1	4180.1	2302.9	3329.0
21.550	-262.1	-181.6	0.0	0.0	3863.6	3863.6	2092.2	3026.6
21.862	-273.8	-189.6	0.0	0.0	3820.6	3820.6	2032.0	2939.5
22.550	-299.3	-207.3	0.0	0.0	3578.7	3578.7	1899.5	2748.0
23.320	-327.9	-227.1	0.0	0.0	3355.9	3355.9	1751.1	2533.5
23.638	-339.6	-235.1	0.0	0.0	3309.5	3309.5	1667.7	2413.1
24.778	-381.5	-263.9	0.0	0.0	2959.7	2959.7	1368.7	1981.9
25.550	-409.7	-283.3	0.0	0.0	2677.9	2677.9	1163.4	1685.1
26.235	-434.4	-300.2	0.0	0.0	2478.5	2478.5	977.7	1415.3
26.550	-445.8	-307.9	0.0	0.0	2365.3	2365.3	873.3	1265.0
27.692	-485.0	-335.0	0.0	0.0	2047.9	2047.9	491.6	713.3
28.550	-512.5	-354.2	0.0	0.0	1723.0	1723.0	201.8	292.7
29.149	-531.8	-367.7	0.0	0.0	776.8	776.8	-1.1	-0.7
29.151	8.2	11.4	0.0	0.0	773.3	773.3	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	19.4	19.4	-0.1	-0.0

Viga 2. Tras la disposición de la superestructura
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1 (m)	V_u (kN)	V_{nmax} (kN)	V_r (kN)	V_u/V_r	Observaciones
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	531.8	2769.9	2492.9	0.213	Cumple
0.600	512.5	3230.7	2907.6	0.176	Cumple
1.457	485.0	3219.3	2897.4	0.167	Cumple
2.600	445.8	3212.1	2890.9	0.154	Cumple
2.915	434.4	3210.1	2889.1	0.150	Cumple
3.600	409.7	3206.8	2886.1	0.142	Cumple
4.372	381.5	3196.7	2877.0	0.133	Cumple
5.512	339.6	3185.4	2866.8	0.118	Cumple
5.830	327.9	3183.2	2864.9	0.114	Cumple
6.600	299.3	3177.2	2859.5	0.105	Cumple
7.287	273.8	3171.9	2854.7	0.096	Cumple
7.600	262.1	3170.3	2853.2	0.092	Cumple

8.745	219.3	3164.3	2847.8	0.077	Cumple
10.202	164.7	3164.3	2847.8	0.058	Cumple
11.660	109.9	3164.3	2847.8	0.039	Cumple
13.117	55.0	3164.3	2847.8	0.019	Cumple
14.575	1.7	3164.3	2847.8	0.001	Cumple
16.032	55.0	3164.3	2847.8	0.019	Cumple
17.490	109.9	3164.3	2847.8	0.039	Cumple
18.947	164.7	3164.3	2847.8	0.058	Cumple
20.405	219.3	3164.3	2847.8	0.077	Cumple
21.550	262.1	3170.3	2853.2	0.092	Cumple
21.862	273.8	3171.9	2854.7	0.096	Cumple
22.550	299.3	3177.2	2859.5	0.105	Cumple
23.320	327.9	3183.2	2864.9	0.114	Cumple
23.638	339.6	3185.4	2866.8	0.118	Cumple
24.778	381.5	3196.7	2877.0	0.133	Cumple
25.550	409.7	3206.8	2886.1	0.142	Cumple
26.235	434.4	3210.1	2889.1	0.150	Cumple
26.550	445.8	3212.1	2890.9	0.154	Cumple
27.692	485.0	3219.3	2897.4	0.167	Cumple
28.550	512.5	3230.7	2907.6	0.176	Cumple
29.149	531.8	2769.9	2492.9	0.213	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. Tras la disposición de la superestructura

Armadura de cortante

Distancia al eje 1	V_u	V_c	V_s	V_p	V_n	V_r	A_{st}	$A_{st\ min}$	$S_{max\ long}$
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(cm^2/m)	(cm^2/m)	(m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	531.8	113.5	477.4	-0.0	590.8	531.8	8.9	2.0	0.610
0.600	512.5	767.2	0.0	-0.0	767.2	690.5	2.0	2.0	0.610
1.457	485.0	789.2	0.0	-0.0	789.2	710.3	2.0	2.0	0.610
2.600	445.8	785.9	0.0	-0.0	785.9	707.3	2.0	2.0	0.610
2.915	434.4	781.1	0.0	-0.0	781.1	703.0	2.0	2.0	0.610
3.600	409.7	787.2	0.0	-0.0	787.2	708.5	2.0	2.0	0.610
4.372	381.5	787.5	0.0	-0.0	787.5	708.7	2.0	2.0	0.610
5.512	339.6	791.8	0.0	-0.0	791.8	712.7	2.0	2.0	0.610
5.830	327.9	785.4	0.0	-0.0	785.4	706.9	2.0	2.0	0.610
6.600	299.3	793.8	0.0	-0.0	793.8	714.4	2.0	2.0	0.610
7.287	273.8	796.1	0.0	-0.0	796.1	716.5	2.0	2.0	0.610
7.600	262.1	799.3	0.0	-0.0	799.3	719.3	2.0	2.0	0.610
8.745	219.3	805.8	0.0	-0.0	805.8	725.2	2.0	2.0	0.610
10.202	164.7	431.6	0.0	-0.0	431.6	388.4	0.0	0.0	0.610
11.660	109.9	427.7	0.0	-0.0	427.7	384.9	0.0	0.0	0.610
13.117	55.0	443.6	0.0	-0.0	443.6	399.2	0.0	0.0	0.610
14.575	1.7	461.1	0.0	-0.0	461.1	415.0	0.0	0.0	0.610
16.032	55.0	443.6	0.0	-0.0	443.6	399.2	0.0	0.0	0.610
17.490	109.9	427.7	0.0	-0.0	427.7	384.9	0.0	0.0	0.610
18.947	164.7	431.6	0.0	-0.0	431.6	388.4	0.0	0.0	0.610
20.405	219.3	805.8	0.0	-0.0	805.8	725.2	2.0	2.0	0.610
21.550	262.1	799.3	0.0	-0.0	799.3	719.3	2.0	2.0	0.610
21.862	273.8	796.1	0.0	-0.0	796.1	716.5	2.0	2.0	0.610
22.550	299.3	793.8	0.0	-0.0	793.8	714.4	2.0	2.0	0.610
23.320	327.9	785.4	0.0	-0.0	785.4	706.9	2.0	2.0	0.610
23.638	339.6	791.8	0.0	-0.0	791.8	712.7	2.0	2.0	0.610
24.778	381.5	787.5	0.0	-0.0	787.5	708.7	2.0	2.0	0.610
25.550	409.7	787.2	0.0	-0.0	787.2	708.5	2.0	2.0	0.610
26.235	434.4	781.1	0.0	-0.0	781.1	703.0	2.0	2.0	0.610
26.550	445.8	785.9	0.0	-0.0	785.9	707.3	2.0	2.0	0.610
27.692	485.0	789.2	0.0	-0.0	789.2	710.3	2.0	2.0	0.610
28.550	512.5	767.2	0.0	-0.0	767.2	690.5	2.0	2.0	0.610
29.149	531.8	113.5	477.4	-0.0	590.8	531.8	8.9	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. Tras la disposición de la superestructura

Armadura de cortante

Distancia al eje 1	θ	b_0	d_v	$f_{y\alpha d}$	β	v	ε
(m)	(º)	(m)	(m)	(MPa)		(kN/m^2)	
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	2666	0.00600
0.600	28.8	0.174	1.485	500.0	5.059	2203	-0.00007
1.457	28.6	0.174	1.480	500.0	5.223	2092	-0.00011
2.600	28.6	0.174	1.477	500.0	5.213	1927	-0.00011
2.915	28.7	0.174	1.476	500.0	5.184	1879	-0.00010
3.600	28.6	0.174	1.474	500.0	5.230	1775	-0.00011
4.372	28.6	0.174	1.470	500.0	5.248	1658	-0.00011
5.512	28.6	0.174	1.465	500.0	5.296	1481	-0.00012
5.830	28.6	0.174	1.464	500.0	5.257	1431	-0.00012
6.600	28.5	0.174	1.461	500.0	5.323	1308	-0.00013
7.287	28.5	0.174	1.458	500.0	5.347	1199	-0.00014
7.600	28.5	0.174	1.458	500.0	5.371	1148	-0.00014
8.745	28.5	0.174	1.455	500.0	5.425	963	-0.00015
10.202	28.5	0.174	1.455	0.0	2.906	723	-0.00014
11.660	28.5	0.174	1.455	0.0	2.880	482	-0.00013
13.117	28.4	0.174	1.455	0.0	2.986	241	-0.00017
14.575	28.2	0.174	1.455	0.0	3.104	8	-0.00022
16.032	28.4	0.174	1.455	0.0	2.986	241	-0.00017
17.490	28.5	0.174	1.455	0.0	2.880	482	-0.00013
18.947	28.5	0.174	1.455	0.0	2.906	723	-0.00014
20.405	28.5	0.174	1.455	500.0	5.425	963	-0.00015
21.550	28.5	0.174	1.458	500.0	5.371	1148	-0.00014
21.862	28.5	0.174	1.458	500.0	5.347	1199	-0.00014
22.550	28.5	0.174	1.461	500.0	5.323	1308	-0.00013
23.320	28.6	0.174	1.464	500.0	5.257	1431	-0.00012
23.638	28.6	0.174	1.465	500.0	5.296	1481	-0.00012
24.778	28.6	0.174	1.470	500.0	5.248	1658	-0.00011
25.550	28.6	0.174	1.474	500.0	5.230	1775	-0.00011
26.235	28.7	0.174	1.476	500.0	5.184	1879	-0.00010
26.550	28.6	0.174	1.477	500.0	5.213	1927	-0.00011
27.692	28.6	0.174	1.480	500.0	5.223	2092	-0.00011
28.550	28.8	0.174	1.485	500.0	5.059	2203	-0.00007
29.149	50.0	0.174	1.273	500.0	0.873	2666	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. Tras la apertura al tráfico

Envolvente de esfuerzos.

Distancia al eje 1	Cortantes		Cortantes de pretensado		Axiles y flectores			
	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_{p-}	N_{p+}	M_{u-}	M_{u+}
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.3	-0.2	0.0	0.0	19.4	19.4	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	773.3	773.3	-2.3	-1.6
0.001	273.8	625.6	0.0	0.0	776.8	776.8	-1.4	-0.4
0.600	262.6	604.2	0.0	0.0	1723.0	1723.0	146.0	348.5
1.457	246.6	573.5	0.0	0.0	2047.9	2047.9	355.5	849.3
2.600	226.1	527.6	0.0	0.0	2365.3	2365.3	639.9	1498.4
2.915	220.6	514.0	0.0	0.0	2478.5	2478.5	719.4	1673.6
3.600	208.7	484.3	0.0	0.0	2677.9	2677.9	851.0	1997.5
4.372	194.8	450.7	0.0	0.0	2959.7	2959.7	1001.9	2348.6
5.512	173.9	400.8	0.0	0.0	3309.5	3309.5	1226.6	2854.3
5.830	168.1	386.9	0.0	0.0	3355.9	3355.9	1289.3	2995.4
6.600	153.6	353.0	0.0	0.0	3578.7	3578.7	1397.6	3249.9
7.287	140.6	322.8	0.0	0.0	3820.6	3820.6	1494.4	3477.1

7.600	134.7	309.0	0.0	0.0	3863.6	3863.6	1538.4	3580.4
8.745	112.9	258.4	0.0	0.0	4180.1	4180.1	1702.3	3929.6
10.202	84.9	194.0	0.0	0.0	4183.3	4183.3	1825.3	4230.9
11.660	56.7	129.4	0.0	0.0	4186.4	4186.4	1950.6	4502.7
13.117	28.4	64.7	0.0	0.0	4187.5	4187.5	2259.1	3775.9
14.575	-8.2	8.2	0.0	0.0	4188.5	4188.5	2840.9	2840.9
16.032	-64.7	-28.4	0.0	0.0	4187.5	4187.5	2259.1	3775.9
17.490	-129.4	-56.7	0.0	0.0	4186.4	4186.4	1950.6	4502.7
18.947	-194.0	-84.9	0.0	0.0	4183.3	4183.3	1825.3	4230.9
20.405	-258.4	-112.9	0.0	0.0	4180.1	4180.1	1702.3	3929.6
21.550	-309.0	-134.7	0.0	0.0	3863.6	3863.6	1538.4	3580.4
21.862	-322.8	-140.6	0.0	0.0	3820.6	3820.6	1494.4	3477.1
22.550	-353.0	-153.6	0.0	0.0	3578.7	3578.7	1397.6	3249.9
23.320	-386.9	-168.1	0.0	0.0	3355.9	3355.9	1289.3	2995.4
23.638	-400.8	-173.9	0.0	0.0	3309.5	3309.5	1226.6	2854.3
24.778	-450.7	-194.8	0.0	0.0	2959.7	2959.7	1001.9	2348.6
25.550	-484.3	-208.7	0.0	0.0	2677.9	2677.9	851.0	1997.5
26.235	-514.0	-220.6	0.0	0.0	2478.5	2478.5	719.4	1673.6
26.550	-527.6	-226.1	0.0	0.0	2365.3	2365.3	639.9	1498.4
27.692	-573.5	-246.6	0.0	0.0	2047.9	2047.9	355.5	849.3
28.550	-604.2	-262.6	0.0	0.0	1723.0	1723.0	146.0	348.5
29.149	-625.6	-273.8	0.0	0.0	776.8	776.8	-1.4	-0.4
29.151	8.2	11.4	0.0	0.0	773.3	773.3	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	19.4	19.4	-0.1	-0.0

Viga 2. Tras la apertura al tráfico

Verificación por agotamiento de las bielas de compresión

Distancia al eje 1	V_u	V_{nmax}	V_r	V_u/V_r	Observaciones
(m)	(kN)	(kN)	(kN)		
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	625.6	2769.9	2492.9	0.251	Cumple
0.600	604.2	3230.7	2907.6	0.208	Cumple
1.457	573.5	3219.3	2897.4	0.198	Cumple
2.600	527.6	3212.1	2890.9	0.183	Cumple
2.915	514.0	3210.1	2889.1	0.178	Cumple
3.600	484.3	3206.8	2886.1	0.168	Cumple
4.372	450.7	3196.7	2877.0	0.157	Cumple
5.512	400.8	3185.4	2866.8	0.140	Cumple
5.830	386.9	3183.2	2864.9	0.135	Cumple
6.600	353.0	3177.2	2859.5	0.123	Cumple
7.287	322.8	3171.9	2854.7	0.113	Cumple
7.600	309.0	3170.3	2853.2	0.108	Cumple
8.745	258.4	3164.3	2847.8	0.091	Cumple
10.202	194.0	3164.3	2847.8	0.068	Cumple
11.660	129.4	3164.3	2847.8	0.045	Cumple
13.117	64.7	3164.3	2847.8	0.023	Cumple
14.575	8.2	3164.3	2847.8	0.003	Cumple
16.032	64.7	3164.3	2847.8	0.023	Cumple
17.490	129.4	3164.3	2847.8	0.045	Cumple
18.947	194.0	3164.3	2847.8	0.068	Cumple
20.405	258.4	3164.3	2847.8	0.091	Cumple
21.550	309.0	3170.3	2853.2	0.108	Cumple
21.862	322.8	3171.9	2854.7	0.113	Cumple
22.550	353.0	3177.2	2859.5	0.123	Cumple
23.320	386.9	3183.2	2864.9	0.135	Cumple
23.638	400.8	3185.4	2866.8	0.140	Cumple
24.778	450.7	3196.7	2877.0	0.157	Cumple
25.550	484.3	3206.8	2886.1	0.168	Cumple
26.235	514.0	3210.1	2889.1	0.178	Cumple
26.550	527.6	3212.1	2890.9	0.183	Cumple
27.692	573.5	3219.3	2897.4	0.198	Cumple
28.550	604.2	3230.7	2907.6	0.208	Cumple
29.149	625.6	2769.9	2492.9	0.251	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple

29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. Tras la apertura al tráfico
Armadura de cortante

Distancia al eje 1 (m)	V_u (kN)	V_c (kN)	V_s (kN)	V_p (kN)	V_n (kN)	V_r (kN)	A_{st} (cm^2/m)	$A_{st\ min}$ (cm^2/m)	$S_{max\ long}$ (m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	625.6	113.5	581.7	-0.0	695.2	625.6	10.9	2.0	0.610
0.600	604.2	754.5	0.0	-0.0	754.5	679.1	2.0	2.0	0.610
1.457	573.5	776.1	0.0	-0.0	776.1	698.5	2.0	2.0	0.610
2.600	527.6	768.6	0.0	-0.0	768.6	691.7	2.0	2.0	0.610
2.915	514.0	763.0	0.0	-0.0	763.0	686.7	2.0	2.0	0.610
3.600	484.3	766.6	0.0	-0.0	766.6	690.0	2.0	2.0	0.610
4.372	450.7	764.7	0.0	-0.0	764.7	688.2	2.0	2.0	0.610
5.512	400.8	765.9	0.0	-0.0	765.9	689.3	2.0	2.0	0.610
5.830	386.9	759.1	0.0	-0.0	759.1	683.2	2.0	2.0	0.610
6.600	353.0	765.4	0.0	-0.0	765.4	688.8	2.0	2.0	0.610
7.287	322.8	766.2	0.0	-0.0	766.2	689.6	2.0	2.0	0.610
7.600	309.0	768.5	0.0	-0.0	768.5	691.7	2.0	2.0	0.610
8.745	258.4	773.0	0.0	-0.0	773.0	695.7	2.0	2.0	0.610
10.202	194.0	763.8	0.0	-0.0	763.8	687.4	2.0	2.0	0.610
11.660	129.4	409.1	0.0	-0.0	409.1	368.2	0.0	0.0	0.610
13.117	64.7	430.7	0.0	-0.0	430.7	387.6	0.0	0.0	0.610
14.575	8.2	460.8	0.0	-0.0	460.8	414.7	0.0	0.0	0.610
16.032	64.7	430.7	0.0	-0.0	430.7	387.6	0.0	0.0	0.610
17.490	129.4	409.1	0.0	-0.0	409.1	368.2	0.0	0.0	0.610
18.947	194.0	763.8	0.0	-0.0	763.8	687.4	2.0	2.0	0.610
20.405	258.4	773.0	0.0	-0.0	773.0	695.7	2.0	2.0	0.610
21.550	309.0	768.5	0.0	-0.0	768.5	691.7	2.0	2.0	0.610
21.862	322.8	766.2	0.0	-0.0	766.2	689.6	2.0	2.0	0.610
22.550	353.0	765.4	0.0	-0.0	765.4	688.8	2.0	2.0	0.610
23.320	386.9	759.1	0.0	-0.0	759.1	683.2	2.0	2.0	0.610
23.638	400.8	765.9	0.0	-0.0	765.9	689.3	2.0	2.0	0.610
24.778	450.7	764.7	0.0	-0.0	764.7	688.2	2.0	2.0	0.610
25.550	484.3	766.6	0.0	-0.0	766.6	690.0	2.0	2.0	0.610
26.235	514.0	763.0	0.0	-0.0	763.0	686.7	2.0	2.0	0.610
26.550	527.6	768.6	0.0	-0.0	768.6	691.7	2.0	2.0	0.610
27.692	573.5	776.1	0.0	-0.0	776.1	698.5	2.0	2.0	0.610
28.550	604.2	754.5	0.0	-0.0	754.5	679.1	2.0	2.0	0.610
29.149	625.6	113.5	581.7	-0.0	695.2	625.6	10.9	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. Tras la apertura al tráfico
Armadura de cortante

Distancia al eje 1 (m)	θ (º)	b_0 (m)	d_v (m)	$f_{y\,\alpha d}$ (MPa)	β	v (kN/m^2)	ε
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	3137	0.00600
0.600	28.8	0.174	1.485	500.0	4.976	2597	-0.00005
1.457	28.7	0.174	1.480	500.0	5.136	2474	-0.00009
2.600	28.7	0.174	1.477	500.0	5.098	2281	-0.00008
2.915	28.8	0.174	1.476	500.0	5.064	2224	-0.00007
3.600	28.7	0.174	1.474	500.0	5.093	2098	-0.00008
4.372	28.7	0.174	1.470	500.0	5.097	1958	-0.00008
5.512	28.7	0.174	1.465	500.0	5.122	1748	-0.00008
5.830	28.7	0.174	1.464	500.0	5.080	1688	-0.00007
6.600	28.7	0.174	1.461	500.0	5.132	1543	-0.00009
7.287	28.7	0.174	1.458	500.0	5.146	1413	-0.00009
7.600	28.7	0.174	1.458	500.0	5.165	1354	-0.00009

8.745	28.6	0.174	1.455	500.0	5.204	1134	-0.00010
10.202	28.7	0.174	1.455	500.0	5.143	851	-0.00009
11.660	28.7	0.174	1.455	0.0	2.755	568	-0.00008
13.117	28.5	0.174	1.455	0.0	2.900	284	-0.00014
14.575	28.2	0.174	1.455	0.0	3.102	36	-0.00022
16.032	28.5	0.174	1.455	0.0	2.900	284	-0.00014
17.490	28.7	0.174	1.455	0.0	2.755	568	-0.00008
18.947	28.7	0.174	1.455	500.0	5.143	851	-0.00009
20.405	28.6	0.174	1.455	500.0	5.204	1134	-0.00010
21.550	28.7	0.174	1.458	500.0	5.165	1354	-0.00009
21.862	28.7	0.174	1.458	500.0	5.146	1413	-0.00009
22.550	28.7	0.174	1.461	500.0	5.132	1543	-0.00009
23.320	28.7	0.174	1.464	500.0	5.080	1688	-0.00007
23.638	28.7	0.174	1.465	500.0	5.122	1748	-0.00008
24.778	28.7	0.174	1.470	500.0	5.097	1958	-0.00008
25.550	28.7	0.174	1.474	500.0	5.093	2098	-0.00008
26.235	28.8	0.174	1.476	500.0	5.064	2224	-0.00007
26.550	28.7	0.174	1.477	500.0	5.098	2281	-0.00008
27.692	28.7	0.174	1.480	500.0	5.136	2474	-0.00009
28.550	28.8	0.174	1.485	500.0	4.976	2597	-0.00005
29.149	50.0	0.174	1.273	500.0	0.873	3137	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. A tiempo infinito

Envolvente de esfuerzos.

Distancia al eje 1 (m)	Cortantes V_{u-} (kN)	V_{u+} (kN)	Cortantes de pretensado V_{p-} (kN)	V_{p+} (kN)	Axiles y flectores N_{p-} (kN)	N_{p+} (kN)	M_{u-} (kNm)	M_{u+} (kNm)
-0.390	-0.3	-0.2	0.0	0.0	18.6	18.6	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	742.6	742.6	-2.3	-1.6
0.001	273.8	625.6	0.0	0.0	745.9	745.9	-1.4	-0.4
0.600	262.6	604.2	0.0	0.0	1616.0	1616.0	146.0	348.5
1.457	246.6	573.5	0.0	0.0	1918.0	1918.0	355.5	849.3
2.600	226.1	527.6	0.0	0.0	2218.1	2218.1	639.9	1498.4
2.915	220.6	514.0	0.0	0.0	2318.1	2318.1	719.4	1673.6
3.600	208.7	484.3	0.0	0.0	2509.5	2509.5	851.0	1997.5
4.372	194.8	450.7	0.0	0.0	2771.4	2771.4	1001.9	2348.6
5.512	173.9	400.8	0.0	0.0	3092.0	3092.0	1226.6	2854.3
5.830	168.1	386.9	0.0	0.0	3132.7	3132.7	1289.3	2995.4
6.600	153.6	353.0	0.0	0.0	3345.6	3345.6	1397.6	3249.9
7.287	140.6	322.8	0.0	0.0	3567.5	3567.5	1494.4	3477.1
7.600	134.7	309.0	0.0	0.0	3608.4	3608.4	1538.4	3580.4
8.745	112.9	258.4	0.0	0.0	3892.8	3892.8	1702.3	3929.6
10.202	84.9	194.0	0.0	0.0	3903.1	3903.1	1825.3	4230.9
11.660	56.7	129.4	0.0	0.0	3912.9	3912.9	1950.6	4502.7
13.117	28.4	64.7	0.0	0.0	3916.4	3916.4	2259.1	3775.9
14.575	-8.2	8.2	0.0	0.0	3919.4	3919.4	2840.9	2840.9
16.032	-64.7	-28.4	0.0	0.0	3916.4	3916.4	2259.1	3775.9
17.490	-129.4	-56.7	0.0	0.0	3912.9	3912.9	1950.6	4502.7
18.947	-194.0	-84.9	0.0	0.0	3903.1	3903.1	1825.3	4230.9
20.405	-258.4	-112.9	0.0	0.0	3892.8	3892.8	1702.3	3929.6
21.550	-309.0	-134.7	0.0	0.0	3608.4	3608.4	1538.4	3580.4
21.862	-322.8	-140.6	0.0	0.0	3567.5	3567.5	1494.4	3477.1
22.550	-353.0	-153.6	0.0	0.0	3345.6	3345.6	1397.6	3249.9
23.320	-386.9	-168.1	0.0	0.0	3132.7	3132.7	1289.3	2995.4
23.638	-400.8	-173.9	0.0	0.0	3092.0	3092.0	1226.6	2854.3
24.778	-450.7	-194.8	0.0	0.0	2771.4	2771.4	1001.9	2348.6
25.550	-484.3	-208.7	0.0	0.0	2509.5	2509.5	851.0	1997.5
26.235	-514.0	-220.6	0.0	0.0	2318.1	2318.1	719.4	1673.6
26.550	-527.6	-226.1	0.0	0.0	2218.1	2218.1	639.9	1498.4
27.692	-573.5	-246.6	0.0	0.0	1918.0	1918.0	355.5	849.3
28.550	-604.2	-262.6	0.0	0.0	1616.0	1616.0	146.0	348.5
29.149	-625.6	-273.8	0.0	0.0	745.9	745.9	-1.4	-0.4

29.151	8.2	11.4	0.0	0.0	742.6	742.6	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	18.6	18.6	-0.1	-0.0

Viga 2. A tiempo infinito
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1 (m)	V_u (kN)	V_{nmax} (kN)	V_r (kN)	V_u/V_r	Observaciones
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	625.6	2769.9	2492.9	0.251	Cumple
0.600	604.2	3230.7	2907.6	0.208	Cumple
1.457	573.5	3219.3	2897.4	0.198	Cumple
2.600	527.6	3212.1	2890.9	0.183	Cumple
2.915	514.0	3210.1	2889.1	0.178	Cumple
3.600	484.3	3206.8	2886.1	0.168	Cumple
4.372	450.7	3196.7	2877.0	0.157	Cumple
5.512	400.8	3185.4	2866.8	0.140	Cumple
5.830	386.9	3183.2	2864.9	0.135	Cumple
6.600	353.0	3177.2	2859.5	0.123	Cumple
7.287	322.8	3171.9	2854.7	0.113	Cumple
7.600	309.0	3170.3	2853.2	0.108	Cumple
8.745	258.4	3164.3	2847.8	0.091	Cumple
10.202	194.0	3164.3	2847.8	0.068	Cumple
11.660	129.4	3164.3	2847.8	0.045	Cumple
13.117	64.7	3164.3	2847.8	0.023	Cumple
14.575	8.2	3164.3	2847.8	0.003	Cumple
16.032	64.7	3164.3	2847.8	0.023	Cumple
17.490	129.4	3164.3	2847.8	0.045	Cumple
18.947	194.0	3164.3	2847.8	0.068	Cumple
20.405	258.4	3164.3	2847.8	0.091	Cumple
21.550	309.0	3170.3	2853.2	0.108	Cumple
21.862	322.8	3171.9	2854.7	0.113	Cumple
22.550	353.0	3177.2	2859.5	0.123	Cumple
23.320	386.9	3183.2	2864.9	0.135	Cumple
23.638	400.8	3185.4	2866.8	0.140	Cumple
24.778	450.7	3196.7	2877.0	0.157	Cumple
25.550	484.3	3206.8	2886.1	0.168	Cumple
26.235	514.0	3210.1	2889.1	0.178	Cumple
26.550	527.6	3212.1	2890.9	0.183	Cumple
27.692	573.5	3219.3	2897.4	0.198	Cumple
28.550	604.2	3230.7	2907.6	0.208	Cumple
29.149	625.6	2769.9	2492.9	0.251	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. A tiempo infinito
Armadura de cortante

Distancia al eje 1 (m)	V_u (kN)	V_c (kN)	V_s (kN)	V_p (kN)	V_n (kN)	V_r (kN)	A_{st} (cm^2/m)	$A_{st\ min}$ (cm^2/m)	$S_{max\ long}$ (m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	625.6	113.5	581.7	-0.0	695.2	625.6	10.9	2.0	0.610
0.600	604.2	754.5	0.0	-0.0	754.5	679.1	2.0	2.0	0.610
1.457	573.5	776.1	0.0	-0.0	776.1	698.5	2.0	2.0	0.610
2.600	527.6	768.6	0.0	-0.0	768.6	691.7	2.0	2.0	0.610
2.915	514.0	763.0	0.0	-0.0	763.0	686.7	2.0	2.0	0.610
3.600	484.3	766.6	0.0	-0.0	766.6	690.0	2.0	2.0	0.610
4.372	450.7	764.7	0.0	-0.0	764.7	688.2	2.0	2.0	0.610
5.512	400.8	765.9	0.0	-0.0	765.9	689.3	2.0	2.0	0.610
5.830	386.9	759.1	0.0	-0.0	759.1	683.2	2.0	2.0	0.610
6.600	353.0	765.4	0.0	-0.0	765.4	688.8	2.0	2.0	0.610
7.287	322.8	766.2	0.0	-0.0	766.2	689.6	2.0	2.0	0.610
7.600	309.0	768.5	0.0	-0.0	768.5	691.7	2.0	2.0	0.610

8.745	258.4	773.0	0.0	-0.0	773.0	695.7	2.0	2.0	0.610
10.202	194.0	763.8	0.0	-0.0	763.8	687.4	2.0	2.0	0.610
11.660	129.4	409.1	0.0	-0.0	409.1	368.2	0.0	0.0	0.610
13.117	64.7	430.7	0.0	-0.0	430.7	387.6	0.0	0.0	0.610
14.575	8.2	460.8	0.0	-0.0	460.8	414.7	0.0	0.0	0.610
16.032	64.7	430.7	0.0	-0.0	430.7	387.6	0.0	0.0	0.610
17.490	129.4	409.1	0.0	-0.0	409.1	368.2	0.0	0.0	0.610
18.947	194.0	763.8	0.0	-0.0	763.8	687.4	2.0	2.0	0.610
20.405	258.4	773.0	0.0	-0.0	773.0	695.7	2.0	2.0	0.610
21.550	309.0	768.5	0.0	-0.0	768.5	691.7	2.0	2.0	0.610
21.862	322.8	766.2	0.0	-0.0	766.2	689.6	2.0	2.0	0.610
22.550	353.0	765.4	0.0	-0.0	765.4	688.8	2.0	2.0	0.610
23.320	386.9	759.1	0.0	-0.0	759.1	683.2	2.0	2.0	0.610
23.638	400.8	765.9	0.0	-0.0	765.9	689.3	2.0	2.0	0.610
24.778	450.7	764.7	0.0	-0.0	764.7	688.2	2.0	2.0	0.610
25.550	484.3	766.6	0.0	-0.0	766.6	690.0	2.0	2.0	0.610
26.235	514.0	763.0	0.0	-0.0	763.0	686.7	2.0	2.0	0.610
26.550	527.6	768.6	0.0	-0.0	768.6	691.7	2.0	2.0	0.610
27.692	573.5	776.1	0.0	-0.0	776.1	698.5	2.0	2.0	0.610
28.550	604.2	754.5	0.0	-0.0	754.5	679.1	2.0	2.0	0.610
29.149	625.6	113.5	581.7	-0.0	695.2	625.6	10.9	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. A tiempo infinito

Armadura de cortante

Distancia al eje 1	θ	b_0	d_v	$f_{y\,\alpha d}$	β	v	ε
(m)	(º)	(m)	(m)	(MPa)		(kN/m²)	
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	3137	0.00600
0.600	28.8	0.174	1.485	500.0	4.976	2597	-0.00005
1.457	28.7	0.174	1.480	500.0	5.136	2474	-0.00009
2.600	28.7	0.174	1.477	500.0	5.098	2281	-0.00008
2.915	28.8	0.174	1.476	500.0	5.064	2224	-0.00007
3.600	28.7	0.174	1.474	500.0	5.093	2098	-0.00008
4.372	28.7	0.174	1.470	500.0	5.097	1958	-0.00008
5.512	28.7	0.174	1.465	500.0	5.122	1748	-0.00008
5.830	28.7	0.174	1.464	500.0	5.080	1688	-0.00007
6.600	28.7	0.174	1.461	500.0	5.132	1543	-0.00009
7.287	28.7	0.174	1.458	500.0	5.146	1413	-0.00009
7.600	28.7	0.174	1.458	500.0	5.165	1354	-0.00009
8.745	28.6	0.174	1.455	500.0	5.204	1134	-0.00010
10.202	28.7	0.174	1.455	500.0	5.143	851	-0.00009
11.660	28.7	0.174	1.455	0.0	2.755	568	-0.00008
13.117	28.5	0.174	1.455	0.0	2.900	284	-0.00014
14.575	28.2	0.174	1.455	0.0	3.102	36	-0.00022
16.032	28.5	0.174	1.455	0.0	2.900	284	-0.00014
17.490	28.7	0.174	1.455	0.0	2.755	568	-0.00008
18.947	28.7	0.174	1.455	500.0	5.143	851	-0.00009
20.405	28.6	0.174	1.455	500.0	5.204	1134	-0.00010
21.550	28.7	0.174	1.458	500.0	5.165	1354	-0.00009
21.862	28.7	0.174	1.458	500.0	5.146	1413	-0.00009
22.550	28.7	0.174	1.461	500.0	5.132	1543	-0.00009
23.320	28.7	0.174	1.464	500.0	5.080	1688	-0.00007
23.638	28.7	0.174	1.465	500.0	5.122	1748	-0.00008
24.778	28.7	0.174	1.470	500.0	5.097	1958	-0.00008
25.550	28.7	0.174	1.474	500.0	5.093	2098	-0.00008
26.235	28.8	0.174	1.476	500.0	5.064	2224	-0.00007
26.550	28.7	0.174	1.477	500.0	5.098	2281	-0.00008
27.692	28.7	0.174	1.480	500.0	5.136	2474	-0.00009
28.550	28.8	0.174	1.485	500.0	4.976	2597	-0.00005
29.149	50.0	0.174	1.273	500.0	0.873	3137	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025

29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

5.4 Estado límite de Resistencia. Combinación de Resistencia V

Viga 2:

Viga 2. Tras la transferencia del pretesado								
Envolvente de esfuerzos.								
	Cortantes		Cortantes de pretensado		Axiles y flectores			
Distancia al eje 1	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_{p-}	N_{p+}	M_{u-}	M_{u+}
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.1	-0.1	0.0	0.0	20.3	20.3	-0.0	-0.0
-0.001	-5.0	-3.6	0.0	0.0	811.4	811.4	-1.0	-0.7
0.001	132.5	184.0	0.0	0.0	815.1	815.1	-0.8	-0.6
0.600	127.1	176.5	0.0	0.0	1835.5	1835.5	70.8	98.4
1.457	119.3	165.6	0.0	0.0	2185.1	2185.1	173.1	240.4
2.600	108.9	151.2	0.0	0.0	2523.8	2523.8	309.4	429.7
2.915	106.0	147.2	0.0	0.0	2651.8	2651.8	346.9	481.9
3.600	99.8	138.6	0.0	0.0	2860.6	2860.6	410.5	570.1
4.372	92.8	128.8	0.0	0.0	3164.9	3164.9	482.1	669.6
5.512	82.4	114.4	0.0	0.0	3547.2	3547.2	587.8	816.4
5.830	79.5	110.4	0.0	0.0	3601.9	3601.9	617.3	857.4
6.600	72.5	100.7	0.0	0.0	3834.7	3834.7	668.4	928.3
7.287	66.3	92.0	0.0	0.0	4098.8	4098.8	713.9	991.5
7.600	63.4	88.1	0.0	0.0	4144.7	4144.7	734.6	1020.3
8.745	53.0	73.6	0.0	0.0	4495.7	4495.7	810.5	1125.7
10.202	39.8	55.2	0.0	0.0	4495.7	4495.7	868.4	1206.2
11.660	26.5	36.8	0.0	0.0	4495.7	4495.7	926.4	1286.6
13.117	13.3	18.4	0.0	0.0	4495.7	4495.7	945.7	1125.8
14.575	0.0	0.0	0.0	0.0	4495.7	4495.7	965.0	965.0
16.032	-18.4	-13.3	0.0	0.0	4495.7	4495.7	945.7	1125.8
17.490	-36.8	-26.5	0.0	0.0	4495.7	4495.7	926.4	1286.6
18.947	-55.2	-39.8	0.0	0.0	4495.7	4495.7	868.4	1206.2
20.405	-73.6	-53.0	0.0	0.0	4495.7	4495.7	810.5	1125.7
21.550	-88.1	-63.4	0.0	0.0	4144.7	4144.7	734.6	1020.3
21.862	-92.0	-66.3	0.0	0.0	4098.8	4098.8	713.9	991.5
22.550	-100.7	-72.5	0.0	0.0	3834.7	3834.7	668.4	928.3
23.320	-110.4	-79.5	0.0	0.0	3601.9	3601.9	617.3	857.4
23.638	-114.4	-82.4	0.0	0.0	3547.2	3547.2	587.8	816.4
24.778	-128.8	-92.8	0.0	0.0	3164.9	3164.9	482.1	669.6
25.550	-138.6	-99.8	0.0	0.0	2860.6	2860.6	410.5	570.1
26.235	-147.2	-106.0	0.0	0.0	2651.8	2651.8	346.9	481.9
26.550	-151.2	-108.9	0.0	0.0	2523.8	2523.8	309.4	429.7
27.692	-165.6	-119.3	0.0	0.0	2185.1	2185.1	173.1	240.4
28.550	-176.5	-127.1	0.0	0.0	1835.5	1835.5	70.8	98.4
29.149	-184.0	-132.5	0.0	0.0	815.1	815.1	-0.8	-0.6
29.151	3.6	5.0	0.0	0.0	811.4	811.4	-1.0	-0.7
29.540	0.1	0.1	0.0	0.0	20.3	20.3	-0.0	-0.0

Viga 2. Tras la transferencia del pretesado					
Verificación por agotamiento de las bielas de compresión					
Distancia al eje 1	V_u	V_{nmax}	V_r	V_u/V_r	Observaciones
(m)	(kN)	(kN)	(kN)		
-0.390	0.1	2211.3	1990.2	0.000	Cumple
-0.001	5.0	2211.3	1990.2	0.003	Cumple
0.001	184.0	2211.3	1990.2	0.092	Cumple
0.600	176.5	2266.7	2040.0	0.087	Cumple
1.457	165.6	2257.6	2031.8	0.082	Cumple
2.600	151.2	2251.8	2026.7	0.075	Cumple
2.915	147.2	2250.3	2025.2	0.073	Cumple

3.600	138.6	2247.6	2022.8	0.069	Cumple
4.372	128.8	2239.5	2015.6	0.064	Cumple
5.512	114.4	2230.5	2007.4	0.057	Cumple
5.830	110.4	2228.7	2005.9	0.055	Cumple
6.600	100.7	2224.0	2001.6	0.050	Cumple
7.287	92.0	2219.7	1997.7	0.046	Cumple
7.600	88.1	2218.4	1996.6	0.044	Cumple
8.745	73.6	2213.6	1992.3	0.037	Cumple
10.202	55.2	2213.6	1992.3	0.028	Cumple
11.660	36.8	2213.6	1992.3	0.018	Cumple
13.117	18.4	2213.6	1992.3	0.009	Cumple
14.575	0.0	2213.6	1992.3	0.000	Cumple
16.032	18.4	2213.6	1992.3	0.009	Cumple
17.490	36.8	2213.6	1992.3	0.018	Cumple
18.947	55.2	2213.6	1992.3	0.028	Cumple
20.405	73.6	2213.6	1992.3	0.037	Cumple
21.550	88.1	2218.4	1996.6	0.044	Cumple
21.862	92.0	2219.7	1997.7	0.046	Cumple
22.550	100.7	2224.0	2001.6	0.050	Cumple
23.320	110.4	2228.7	2005.9	0.055	Cumple
23.638	114.4	2230.5	2007.4	0.057	Cumple
24.778	128.8	2239.5	2015.6	0.064	Cumple
25.550	138.6	2247.6	2022.8	0.069	Cumple
26.235	147.2	2250.3	2025.2	0.073	Cumple
26.550	151.2	2251.8	2026.7	0.075	Cumple
27.692	165.6	2257.6	2031.8	0.082	Cumple
28.550	176.5	2266.7	2040.0	0.087	Cumple
29.149	184.0	2211.3	1990.2	0.092	Cumple
29.151	5.0	2211.3	1990.2	0.003	Cumple
29.540	0.1	2211.3	1990.2	0.000	Cumple

Viga 2. Tras la transferencia del pretesado
Armadura de cortante

Distancia al eje 1	V_u	V_c	V_s	V_p	V_n	V_r	A_{st}	$A_{st\ min}$	$S_{max\ long}$
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(cm^2/m)	(cm^2/m)	(m)
-0.390	0.1	303.3	0.0	-0.0	303.3	273.0	0.0	0.0	0.610
-0.001	5.0	300.3	0.0	-0.0	300.3	270.3	0.0	0.0	0.610
0.001	132.5	174.4	0.0	-0.0	174.4	157.0	1.8	1.8	0.610
0.600	176.5	663.6	0.0	-0.0	663.6	597.2	1.8	1.8	0.610
1.457	165.6	395.9	0.0	-0.0	395.9	356.3	0.0	0.0	0.610
2.600	151.2	405.2	0.0	-0.0	405.2	364.7	0.0	0.0	0.610
2.915	147.2	405.3	0.0	-0.0	405.3	364.8	0.0	0.0	0.610
3.600	138.6	415.7	0.0	-0.0	415.7	374.1	0.0	0.0	0.610
4.372	128.8	423.7	0.0	-0.0	423.7	381.3	0.0	0.0	0.610
5.512	114.4	438.9	0.0	-0.0	438.9	395.0	0.0	0.0	0.610
5.830	110.4	436.3	0.0	-0.0	436.3	392.7	0.0	0.0	0.610
6.600	100.7	448.9	0.0	-0.0	448.9	404.0	0.0	0.0	0.610
7.287	92.0	456.5	0.0	-0.0	456.5	410.9	0.0	0.0	0.610
7.600	88.1	461.4	0.0	-0.0	461.4	415.3	0.0	0.0	0.610
8.745	73.6	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
10.202	55.2	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
11.660	36.8	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
13.117	18.4	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
14.575	0.0	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
16.032	18.4	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
17.490	36.8	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
18.947	55.2	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
20.405	73.6	465.1	0.0	-0.0	465.1	418.6	0.0	0.0	0.610
21.550	88.1	461.4	0.0	-0.0	461.4	415.3	0.0	0.0	0.610
21.862	92.0	456.5	0.0	-0.0	456.5	410.9	0.0	0.0	0.610
22.550	100.7	448.9	0.0	-0.0	448.9	404.0	0.0	0.0	0.610
23.320	110.4	436.3	0.0	-0.0	436.3	392.7	0.0	0.0	0.610
23.638	114.4	438.9	0.0	-0.0	438.9	395.0	0.0	0.0	0.610
24.778	128.8	423.7	0.0	-0.0	423.7	381.3	0.0	0.0	0.610
25.550	138.6	415.7	0.0	-0.0	415.7	374.1	0.0	0.0	0.610

26.235	147.2	405.3	0.0	-0.0	405.3	364.8	0.0	0.0	0.610
26.550	151.2	405.2	0.0	-0.0	405.2	364.7	0.0	0.0	0.610
27.692	165.6	395.9	0.0	-0.0	395.9	356.3	0.0	0.0	0.610
28.550	176.5	663.6	0.0	-0.0	663.6	597.2	1.8	1.8	0.610
29.149	132.5	174.4	0.0	-0.0	174.4	157.0	1.8	1.8	0.610
29.151	5.0	300.3	0.0	-0.0	300.3	270.3	0.0	0.0	0.610
29.540	0.1	303.3	0.0	-0.0	303.3	273.0	0.0	0.0	0.610

Viga 2. Tras la transferencia del pretesado
Armadura de cortante

Distancia al eje 1	θ	b_0	d_v	$f_{y\alpha d}$	β	v	ε
(m)	(º)	(m)	(m)	(MPa)		(kN/m^2)	
-0.390	29.3	0.174	1.273	0.0	2.611	1	0.00010
-0.001	29.4	0.174	1.273	0.0	2.585	25	0.00011
0.001	39.3	0.174	1.273	500.0	1.501	664	0.00293
0.600	28.4	0.174	1.305	500.0	5.573	863	-0.00018
1.457	28.2	0.174	1.300	0.0	3.339	814	-0.00023
2.600	28.1	0.174	1.297	0.0	3.426	745	-0.00025
2.915	28.1	0.174	1.296	0.0	3.429	726	-0.00025
3.600	28.0	0.174	1.294	0.0	3.520	684	-0.00028
4.372	27.9	0.174	1.290	0.0	3.601	638	-0.00030
5.512	27.8	0.174	1.285	0.0	3.746	569	-0.00034
5.830	27.8	0.174	1.284	0.0	3.727	549	-0.00034
6.600	27.7	0.174	1.281	0.0	3.842	502	-0.00036
7.287	27.7	0.174	1.278	0.0	3.915	460	-0.00038
7.600	27.6	0.174	1.278	0.0	3.960	440	-0.00039
8.745	27.6	0.174	1.275	0.0	4.000	369	-0.00040
10.202	27.6	0.174	1.275	0.0	4.000	277	-0.00040
11.660	27.6	0.174	1.275	0.0	4.000	184	-0.00040
13.117	27.6	0.174	1.275	0.0	4.000	92	-0.00040
14.575	27.6	0.174	1.275	0.0	4.000	0	-0.00040
16.032	27.6	0.174	1.275	0.0	4.000	92	-0.00040
17.490	27.6	0.174	1.275	0.0	4.000	184	-0.00040
18.947	27.6	0.174	1.275	0.0	4.000	277	-0.00040
20.405	27.6	0.174	1.275	0.0	4.000	369	-0.00040
21.550	27.6	0.174	1.278	0.0	3.960	440	-0.00039
21.862	27.7	0.174	1.278	0.0	3.915	460	-0.00038
22.550	27.7	0.174	1.281	0.0	3.842	502	-0.00036
23.320	27.8	0.174	1.284	0.0	3.727	549	-0.00034
23.638	27.8	0.174	1.285	0.0	3.746	569	-0.00034
24.778	27.9	0.174	1.290	0.0	3.601	638	-0.00030
25.550	28.0	0.174	1.294	0.0	3.520	684	-0.00028
26.235	28.1	0.174	1.296	0.0	3.429	726	-0.00025
26.550	28.1	0.174	1.297	0.0	3.426	745	-0.00025
27.692	28.2	0.174	1.300	0.0	3.339	814	-0.00023
28.550	28.4	0.174	1.305	500.0	5.573	863	-0.00018
29.149	39.3	0.174	1.273	500.0	1.501	664	0.00293
29.151	29.4	0.174	1.273	0.0	2.585	25	0.00011
29.540	29.3	0.174	1.273	0.0	2.611	1	0.00010

Viga 2. Tras el hormigonado de la losa
Envolvente de esfuerzos.

	Cortantes		Cortantes de pretensado		Axiles y flectores			
Distancia al eje 1	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_{p-}	N_{p+}	M_{u-}	M_{u+}
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.3	-0.2	0.0	0.0	19.4	19.4	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	773.3	773.3	-2.3	-1.6
0.001	300.3	417.1	0.0	0.0	776.8	776.8	-1.9	-1.4
0.600	288.0	399.9	0.0	0.0	1723.0	1723.0	160.5	222.9
1.457	270.3	375.4	0.0	0.0	2047.9	2047.9	392.3	544.9
2.600	246.7	342.7	0.0	0.0	2365.3	2365.3	701.1	973.8

2.915	240.3	333.7	0.0	0.0	2478.5	2478.5	786.2	1092.0
3.600	226.1	314.1	0.0	0.0	2677.9	2677.9	930.3	1292.0
4.372	210.2	292.0	0.0	0.0	2959.7	2959.7	1092.6	1517.6
5.512	186.7	259.4	0.0	0.0	3309.5	3309.5	1332.2	1850.3
5.830	180.2	250.3	0.0	0.0	3355.9	3355.9	1399.1	1943.1
6.600	164.3	228.2	0.0	0.0	3578.7	3578.7	1514.7	2103.7
7.287	150.2	208.6	0.0	0.0	3820.6	3820.6	1617.9	2247.1
7.600	143.7	199.6	0.0	0.0	3863.6	3863.6	1664.8	2312.3
8.745	120.1	166.8	0.0	0.0	4180.1	4180.1	1836.8	2551.1
10.202	90.1	125.1	0.0	0.0	4183.3	4183.3	1968.1	2733.5
11.660	60.1	83.4	0.0	0.0	4186.4	4186.4	2099.4	2915.8
13.117	30.0	41.7	0.0	0.0	4187.5	4187.5	2143.2	2551.4
14.575	0.0	0.0	0.0	0.0	4188.5	4188.5	2186.9	2186.9
16.032	-41.7	-30.0	0.0	0.0	4187.5	4187.5	2143.2	2551.4
17.490	-83.4	-60.1	0.0	0.0	4186.4	4186.4	2099.4	2915.8
18.947	-125.1	-90.1	0.0	0.0	4183.3	4183.3	1968.1	2733.5
20.405	-166.8	-120.1	0.0	0.0	4180.1	4180.1	1836.8	2551.1
21.550	-199.6	-143.7	0.0	0.0	3863.6	3863.6	1664.8	2312.3
21.862	-208.6	-150.2	0.0	0.0	3820.6	3820.6	1617.9	2247.1
22.550	-228.2	-164.3	0.0	0.0	3578.7	3578.7	1514.7	2103.7
23.320	-250.3	-180.2	0.0	0.0	3355.9	3355.9	1399.1	1943.1
23.638	-259.4	-186.7	0.0	0.0	3309.5	3309.5	1332.2	1850.3
24.778	-292.0	-210.2	0.0	0.0	2959.7	2959.7	1092.6	1517.6
25.550	-314.1	-226.1	0.0	0.0	2677.9	2677.9	930.3	1292.0
26.235	-333.7	-240.3	0.0	0.0	2478.5	2478.5	786.2	1092.0
26.550	-342.7	-246.7	0.0	0.0	2365.3	2365.3	701.1	973.8
27.692	-375.4	-270.3	0.0	0.0	2047.9	2047.9	392.3	544.9
28.550	-399.9	-288.0	0.0	0.0	1723.0	1723.0	160.5	222.9
29.149	-417.1	-300.3	0.0	0.0	776.8	776.8	-1.9	-1.4
29.151	8.2	11.4	0.0	0.0	773.3	773.3	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	19.4	19.4	-0.1	-0.0

Viga 2. Tras el hormigonado de la losa

Verificación por agotamiento de las bielas de compresión

Distancia al eje 1 (m)	V_u (kN)	V_{nmax} (kN)	V_r (kN)	V_u/V_r	Observaciones
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	417.1	2769.9	2492.9	0.167	Cumple
0.600	399.9	2839.2	2555.3	0.157	Cumple
1.457	375.4	2827.8	2545.0	0.148	Cumple
2.600	342.7	2820.6	2538.5	0.135	Cumple
2.915	333.7	2818.6	2536.8	0.132	Cumple
3.600	314.1	2815.3	2533.8	0.124	Cumple
4.372	292.0	2805.2	2524.7	0.116	Cumple
5.512	259.4	2793.9	2514.5	0.103	Cumple
5.830	250.3	2791.7	2512.5	0.100	Cumple
6.600	228.2	2785.7	2507.1	0.091	Cumple
7.287	208.6	2780.4	2502.3	0.083	Cumple
7.600	199.6	2778.8	2500.9	0.080	Cumple
8.745	166.8	2772.8	2495.5	0.067	Cumple
10.202	125.1	2772.8	2495.5	0.050	Cumple
11.660	83.4	2772.8	2495.5	0.033	Cumple
13.117	41.7	2772.8	2495.5	0.017	Cumple
14.575	0.0	2772.8	2495.5	0.000	Cumple
16.032	41.7	2772.8	2495.5	0.017	Cumple
17.490	83.4	2772.8	2495.5	0.033	Cumple
18.947	125.1	2772.8	2495.5	0.050	Cumple
20.405	166.8	2772.8	2495.5	0.067	Cumple
21.550	199.6	2778.8	2500.9	0.080	Cumple
21.862	208.6	2780.4	2502.3	0.083	Cumple
22.550	228.2	2785.7	2507.1	0.091	Cumple
23.320	250.3	2791.7	2512.5	0.100	Cumple
23.638	259.4	2793.9	2514.5	0.103	Cumple
24.778	292.0	2805.2	2524.7	0.116	Cumple

25.550	314.1	2815.3	2533.8	0.124	Cumple
26.235	333.7	2818.6	2536.8	0.132	Cumple
26.550	342.7	2820.6	2538.5	0.135	Cumple
27.692	375.4	2827.8	2545.0	0.148	Cumple
28.550	399.9	2839.2	2555.3	0.157	Cumple
29.149	417.1	2769.9	2492.9	0.167	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. Tras el hormigonado de la losa

Armadura de cortante

Distancia al eje 1 (m)	V_u (kN)	V_c (kN)	V_s (kN)	V_p (kN)	V_n (kN)	V_r (kN)	A_{st} (cm^2/m)	$A_{st\ min}$ (cm^2/m)	$S_{max\ long}$ (m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	417.1	113.5	350.0	-0.0	463.4	417.1	6.6	2.0	0.610
0.600	399.9	708.3	0.0	-0.0	708.3	637.5	2.0	2.0	0.610
1.457	375.4	731.3	0.0	-0.0	731.3	658.1	2.0	2.0	0.610
2.600	342.7	733.3	0.0	-0.0	733.3	660.0	2.0	2.0	0.610
2.915	333.7	729.7	0.0	-0.0	729.7	656.7	2.0	2.0	0.610
3.600	314.1	740.5	0.0	-0.0	740.5	666.5	2.0	2.0	0.610
4.372	292.0	745.3	0.0	-0.0	745.3	670.7	2.0	2.0	0.610
5.512	259.4	757.3	0.0	-0.0	757.3	681.6	2.0	2.0	0.610
5.830	250.3	750.2	0.0	-0.0	750.2	675.2	2.0	2.0	0.610
6.600	228.2	763.8	0.0	-0.0	763.8	687.4	2.0	2.0	0.610
7.287	208.6	770.2	0.0	-0.0	770.2	693.2	2.0	2.0	0.610
7.600	199.6	451.7	0.0	-0.0	451.7	406.5	0.0	0.0	0.610
8.745	166.8	460.4	0.0	-0.0	460.4	414.3	0.0	0.0	0.610
10.202	125.1	455.1	0.0	-0.0	455.1	409.6	0.0	0.0	0.610
11.660	83.4	450.0	0.0	-0.0	450.0	405.0	0.0	0.0	0.610
13.117	41.7	467.0	0.0	-0.0	467.0	420.3	0.0	0.0	0.610
14.575	0.0	485.2	0.0	-0.0	485.2	436.7	0.0	0.0	0.610
16.032	41.7	467.0	0.0	-0.0	467.0	420.3	0.0	0.0	0.610
17.490	83.4	450.0	0.0	-0.0	450.0	405.0	0.0	0.0	0.610
18.947	125.1	455.1	0.0	-0.0	455.1	409.6	0.0	0.0	0.610
20.405	166.8	460.4	0.0	-0.0	460.4	414.3	0.0	0.0	0.610
21.550	199.6	451.7	0.0	-0.0	451.7	406.5	0.0	0.0	0.610
21.862	208.6	770.2	0.0	-0.0	770.2	693.2	2.0	2.0	0.610
22.550	228.2	763.8	0.0	-0.0	763.8	687.4	2.0	2.0	0.610
23.320	250.3	750.2	0.0	-0.0	750.2	675.2	2.0	2.0	0.610
23.638	259.4	757.3	0.0	-0.0	757.3	681.6	2.0	2.0	0.610
24.778	292.0	745.3	0.0	-0.0	745.3	670.7	2.0	2.0	0.610
25.550	314.1	740.5	0.0	-0.0	740.5	666.5	2.0	2.0	0.610
26.235	333.7	729.7	0.0	-0.0	729.7	656.7	2.0	2.0	0.610
26.550	342.7	733.3	0.0	-0.0	733.3	660.0	2.0	2.0	0.610
27.692	375.4	731.3	0.0	-0.0	731.3	658.1	2.0	2.0	0.610
28.550	399.9	708.3	0.0	-0.0	708.3	637.5	2.0	2.0	0.610
29.149	417.1	113.5	350.0	-0.0	463.4	417.1	6.6	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. Tras el hormigonado de la losa

Armadura de cortante

Distancia al eje 1 (m)	θ (°)	b_0 (m)	d_v (m)	$f_{y\alpha d}$ (MPa)	β	v (kN/m^2)	ε
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	2091	0.00600
0.600	28.5	0.174	1.305	500.0	5.315	1956	-0.00013
1.457	28.4	0.174	1.300	500.0	5.509	1844	-0.00017
2.600	28.4	0.174	1.297	500.0	5.539	1688	-0.00018
2.915	28.4	0.174	1.296	500.0	5.515	1644	-0.00017

3.600	28.3	0.174	1.294	500.0	5.604	1550	-0.00019
4.372	28.3	0.174	1.290	500.0	5.660	1446	-0.00020
5.512	28.2	0.174	1.285	500.0	5.775	1289	-0.00023
5.830	28.2	0.174	1.284	500.0	5.725	1245	-0.00022
6.600	28.2	0.174	1.281	500.0	5.841	1138	-0.00024
7.287	28.1	0.174	1.278	500.0	5.902	1042	-0.00025
7.600	28.1	0.174	1.278	0.0	3.463	998	-0.00026
8.745	28.0	0.174	1.275	0.0	3.537	836	-0.00028
10.202	28.1	0.174	1.275	0.0	3.497	627	-0.00027
11.660	28.1	0.174	1.275	0.0	3.458	418	-0.00025
13.117	28.0	0.174	1.275	0.0	3.588	209	-0.00029
14.575	27.8	0.174	1.275	0.0	3.728	0	-0.00033
16.032	28.0	0.174	1.275	0.0	3.588	209	-0.00029
17.490	28.1	0.174	1.275	0.0	3.458	418	-0.00025
18.947	28.1	0.174	1.275	0.0	3.497	627	-0.00027
20.405	28.0	0.174	1.275	0.0	3.537	836	-0.00028
21.550	28.1	0.174	1.278	0.0	3.463	998	-0.00026
21.862	28.1	0.174	1.278	500.0	5.902	1042	-0.00025
22.550	28.2	0.174	1.281	500.0	5.841	1138	-0.00024
23.320	28.2	0.174	1.284	500.0	5.725	1245	-0.00022
23.638	28.2	0.174	1.285	500.0	5.775	1289	-0.00023
24.778	28.3	0.174	1.290	500.0	5.660	1446	-0.00020
25.550	28.3	0.174	1.294	500.0	5.604	1550	-0.00019
26.235	28.4	0.174	1.296	500.0	5.515	1644	-0.00017
26.550	28.4	0.174	1.297	500.0	5.539	1688	-0.00018
27.692	28.4	0.174	1.300	500.0	5.509	1844	-0.00017
28.550	28.5	0.174	1.305	500.0	5.315	1956	-0.00013
29.149	50.0	0.174	1.273	500.0	0.873	2091	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. Tras la disposición de la superestructura

Envolvente de esfuerzos.

	Cortantes		Cortantes de pretensado		Axiles y flectores			
Distancia al eje 1 (m)	V_{u-} (kN)	V_{u+} (kN)	V_{p-} (kN)	V_{p+} (kN)	N_{p-} (kN)	N_{p+} (kN)	M_{u-} (kNm)	M_{u+} (kNm)
-0.390	-0.3	-0.2	0.0	0.0	19.4	19.4	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	773.3	773.3	-2.3	-1.6
0.001	367.7	531.8	0.0	0.0	776.8	776.8	-1.1	-0.7
0.600	354.2	512.5	0.0	0.0	1723.0	1723.0	201.8	292.7
1.457	335.0	485.0	0.0	0.0	2047.9	2047.9	491.6	713.3
2.600	307.9	445.8	0.0	0.0	2365.3	2365.3	873.3	1265.0
2.915	300.2	434.4	0.0	0.0	2478.5	2478.5	977.7	1415.3
3.600	283.3	409.7	0.0	0.0	2677.9	2677.9	1163.4	1685.1
4.372	263.9	381.5	0.0	0.0	2959.7	2959.7	1368.7	1981.9
5.512	235.1	339.6	0.0	0.0	3309.5	3309.5	1667.7	2413.1
5.830	227.1	327.9	0.0	0.0	3355.9	3355.9	1751.1	2533.5
6.600	207.3	299.3	0.0	0.0	3578.7	3578.7	1899.5	2748.0
7.287	189.6	273.8	0.0	0.0	3820.6	3820.6	2032.0	2939.5
7.600	181.6	262.1	0.0	0.0	3863.6	3863.6	2092.2	3026.6
8.745	152.0	219.3	0.0	0.0	4180.1	4180.1	2302.9	3329.0
10.202	114.2	164.7	0.0	0.0	4183.3	4183.3	2476.1	3580.1
11.660	76.2	109.9	0.0	0.0	4186.4	4186.4	2639.1	3814.3
13.117	38.1	55.0	0.0	0.0	4187.5	4187.5	2698.7	3336.2
14.575	-1.7	1.7	0.0	0.0	4188.5	4188.5	2840.9	2840.9
16.032	-55.0	-38.1	0.0	0.0	4187.5	4187.5	2698.7	3336.2
17.490	-109.9	-76.2	0.0	0.0	4186.4	4186.4	2639.1	3814.3
18.947	-164.7	-114.2	0.0	0.0	4183.3	4183.3	2476.1	3580.1
20.405	-219.3	-152.0	0.0	0.0	4180.1	4180.1	2302.9	3329.0
21.550	-262.1	-181.6	0.0	0.0	3863.6	3863.6	2092.2	3026.6
21.862	-273.8	-189.6	0.0	0.0	3820.6	3820.6	2032.0	2939.5
22.550	-299.3	-207.3	0.0	0.0	3578.7	3578.7	1899.5	2748.0
23.320	-327.9	-227.1	0.0	0.0	3355.9	3355.9	1751.1	2533.5
23.638	-339.6	-235.1	0.0	0.0	3309.5	3309.5	1667.7	2413.1

24.778	-381.5	-263.9	0.0	0.0	2959.7	2959.7	1368.7	1981.9
25.550	-409.7	-283.3	0.0	0.0	2677.9	2677.9	1163.4	1685.1
26.235	-434.4	-300.2	0.0	0.0	2478.5	2478.5	977.7	1415.3
26.550	-445.8	-307.9	0.0	0.0	2365.3	2365.3	873.3	1265.0
27.692	-485.0	-335.0	0.0	0.0	2047.9	2047.9	491.6	713.3
28.550	-512.5	-354.2	0.0	0.0	1723.0	1723.0	201.8	292.7
29.149	-531.8	-367.7	0.0	0.0	776.8	776.8	-1.1	-0.7
29.151	8.2	11.4	0.0	0.0	773.3	773.3	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	19.4	19.4	-0.1	-0.0

Viga 2. Tras la disposición de la superestructura
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1 (m)	V_u (kN)	V_{nmax} (kN)	V_r (kN)	V_u/V_r	Observaciones
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	531.8	2769.9	2492.9	0.213	Cumple
0.600	512.5	3230.7	2907.6	0.176	Cumple
1.457	485.0	3219.3	2897.4	0.167	Cumple
2.600	445.8	3212.1	2890.9	0.154	Cumple
2.915	434.4	3210.1	2889.1	0.150	Cumple
3.600	409.7	3206.8	2886.1	0.142	Cumple
4.372	381.5	3196.7	2877.0	0.133	Cumple
5.512	339.6	3185.4	2866.8	0.118	Cumple
5.830	327.9	3183.2	2864.9	0.114	Cumple
6.600	299.3	3177.2	2859.5	0.105	Cumple
7.287	273.8	3171.9	2854.7	0.096	Cumple
7.600	262.1	3170.3	2853.2	0.092	Cumple
8.745	219.3	3164.3	2847.8	0.077	Cumple
10.202	164.7	3164.3	2847.8	0.058	Cumple
11.660	109.9	3164.3	2847.8	0.039	Cumple
13.117	55.0	3164.3	2847.8	0.019	Cumple
14.575	1.7	3164.3	2847.8	0.001	Cumple
16.032	55.0	3164.3	2847.8	0.019	Cumple
17.490	109.9	3164.3	2847.8	0.039	Cumple
18.947	164.7	3164.3	2847.8	0.058	Cumple
20.405	219.3	3164.3	2847.8	0.077	Cumple
21.550	262.1	3170.3	2853.2	0.092	Cumple
21.862	273.8	3171.9	2854.7	0.096	Cumple
22.550	299.3	3177.2	2859.5	0.105	Cumple
23.320	327.9	3183.2	2864.9	0.114	Cumple
23.638	339.6	3185.4	2866.8	0.118	Cumple
24.778	381.5	3196.7	2877.0	0.133	Cumple
25.550	409.7	3206.8	2886.1	0.142	Cumple
26.235	434.4	3210.1	2889.1	0.150	Cumple
26.550	445.8	3212.1	2890.9	0.154	Cumple
27.692	485.0	3219.3	2897.4	0.167	Cumple
28.550	512.5	3230.7	2907.6	0.176	Cumple
29.149	531.8	2769.9	2492.9	0.213	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. Tras la disposición de la superestructura
Armadura de cortante

Distancia al eje 1 (m)	V_u (kN)	V_c (kN)	V_s (kN)	V_p (kN)	V_n (kN)	V_r (kN)	A_{st} (cm^2/m)	$A_{st\ min}$ (cm^2/m)	$S_{max\ long}$ (m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	531.8	113.5	477.4	-0.0	590.8	531.8	8.9	2.0	0.610
0.600	512.5	767.2	0.0	-0.0	767.2	690.5	2.0	2.0	0.610
1.457	485.0	789.2	0.0	-0.0	789.2	710.3	2.0	2.0	0.610
2.600	445.8	785.9	0.0	-0.0	785.9	707.3	2.0	2.0	0.610
2.915	434.4	781.1	0.0	-0.0	781.1	703.0	2.0	2.0	0.610

3.600	409.7	787.2	0.0	-0.0	787.2	708.5	2.0	2.0	0.610
4.372	381.5	787.5	0.0	-0.0	787.5	708.7	2.0	2.0	0.610
5.512	339.6	791.8	0.0	-0.0	791.8	712.7	2.0	2.0	0.610
5.830	327.9	785.4	0.0	-0.0	785.4	706.9	2.0	2.0	0.610
6.600	299.3	793.8	0.0	-0.0	793.8	714.4	2.0	2.0	0.610
7.287	273.8	796.1	0.0	-0.0	796.1	716.5	2.0	2.0	0.610
7.600	262.1	799.3	0.0	-0.0	799.3	719.3	2.0	2.0	0.610
8.745	219.3	805.8	0.0	-0.0	805.8	725.2	2.0	2.0	0.610
10.202	164.7	431.6	0.0	-0.0	431.6	388.4	0.0	0.0	0.610
11.660	109.9	427.7	0.0	-0.0	427.7	384.9	0.0	0.0	0.610
13.117	55.0	443.6	0.0	-0.0	443.6	399.2	0.0	0.0	0.610
14.575	1.7	461.1	0.0	-0.0	461.1	415.0	0.0	0.0	0.610
16.032	55.0	443.6	0.0	-0.0	443.6	399.2	0.0	0.0	0.610
17.490	109.9	427.7	0.0	-0.0	427.7	384.9	0.0	0.0	0.610
18.947	164.7	431.6	0.0	-0.0	431.6	388.4	0.0	0.0	0.610
20.405	219.3	805.8	0.0	-0.0	805.8	725.2	2.0	2.0	0.610
21.550	262.1	799.3	0.0	-0.0	799.3	719.3	2.0	2.0	0.610
21.862	273.8	796.1	0.0	-0.0	796.1	716.5	2.0	2.0	0.610
22.550	299.3	793.8	0.0	-0.0	793.8	714.4	2.0	2.0	0.610
23.320	327.9	785.4	0.0	-0.0	785.4	706.9	2.0	2.0	0.610
23.638	339.6	791.8	0.0	-0.0	791.8	712.7	2.0	2.0	0.610
24.778	381.5	787.5	0.0	-0.0	787.5	708.7	2.0	2.0	0.610
25.550	409.7	787.2	0.0	-0.0	787.2	708.5	2.0	2.0	0.610
26.235	434.4	781.1	0.0	-0.0	781.1	703.0	2.0	2.0	0.610
26.550	445.8	785.9	0.0	-0.0	785.9	707.3	2.0	2.0	0.610
27.692	485.0	789.2	0.0	-0.0	789.2	710.3	2.0	2.0	0.610
28.550	512.5	767.2	0.0	-0.0	767.2	690.5	2.0	2.0	0.610
29.149	531.8	113.5	477.4	-0.0	590.8	531.8	8.9	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. Tras la disposición de la superestructura							
Armadura de cortante							
Distancia al eje 1	θ	b_0	d_v	$f_{y\,\alpha d}$	β	v	ε
(m)	(º)	(m)	(m)	(MPa)		(kN/m^2)	
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	2666	0.00600
0.600	28.8	0.174	1.485	500.0	5.059	2203	-0.00007
1.457	28.6	0.174	1.480	500.0	5.223	2092	-0.00011
2.600	28.6	0.174	1.477	500.0	5.213	1927	-0.00011
2.915	28.7	0.174	1.476	500.0	5.184	1879	-0.00010
3.600	28.6	0.174	1.474	500.0	5.230	1775	-0.00011
4.372	28.6	0.174	1.470	500.0	5.248	1658	-0.00011
5.512	28.6	0.174	1.465	500.0	5.296	1481	-0.00012
5.830	28.6	0.174	1.464	500.0	5.257	1431	-0.00012
6.600	28.5	0.174	1.461	500.0	5.323	1308	-0.00013
7.287	28.5	0.174	1.458	500.0	5.347	1199	-0.00014
7.600	28.5	0.174	1.458	500.0	5.371	1148	-0.00014
8.745	28.5	0.174	1.455	500.0	5.425	963	-0.00015
10.202	28.5	0.174	1.455	0.0	2.906	723	-0.00014
11.660	28.5	0.174	1.455	0.0	2.880	482	-0.00013
13.117	28.4	0.174	1.455	0.0	2.986	241	-0.00017
14.575	28.2	0.174	1.455	0.0	3.104	8	-0.00022
16.032	28.4	0.174	1.455	0.0	2.986	241	-0.00017
17.490	28.5	0.174	1.455	0.0	2.880	482	-0.00013
18.947	28.5	0.174	1.455	0.0	2.906	723	-0.00014
20.405	28.5	0.174	1.455	500.0	5.425	963	-0.00015
21.550	28.5	0.174	1.458	500.0	5.371	1148	-0.00014
21.862	28.5	0.174	1.458	500.0	5.347	1199	-0.00014
22.550	28.5	0.174	1.461	500.0	5.323	1308	-0.00013
23.320	28.6	0.174	1.464	500.0	5.257	1431	-0.00012
23.638	28.6	0.174	1.465	500.0	5.296	1481	-0.00012
24.778	28.6	0.174	1.470	500.0	5.248	1658	-0.00011

25.550	28.6	0.174	1.474	500.0	5.230	1775	-0.00011
26.235	28.7	0.174	1.476	500.0	5.184	1879	-0.00010
26.550	28.6	0.174	1.477	500.0	5.213	1927	-0.00011
27.692	28.6	0.174	1.480	500.0	5.223	2092	-0.00011
28.550	28.8	0.174	1.485	500.0	5.059	2203	-0.00007
29.149	50.0	0.174	1.273	500.0	0.873	2666	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. Tras la apertura al tráfico
Envolvente de esfuerzos.

	Cortantes		Cortantes de pretensado		Axiles y flectores			
Distancia al eje 1	V_{u-}	V_{u+}	V_{p-}	V_{p+}	N_{p-}	N_{p+}	M_{u-}	M_{u+}
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kNm)	(kNm)
-0.390	-0.3	-0.2	0.0	0.0	19.4	19.4	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	773.3	773.3	-2.3	-1.6
0.001	354.9	1085.5	0.0	0.0	776.8	776.8	-5.5	0.3
0.600	340.7	1055.9	0.0	0.0	1723.0	1723.0	220.7	602.7
1.457	320.5	1013.4	0.0	0.0	2047.9	2047.9	536.3	1473.4
2.600	284.0	941.2	0.0	0.0	2365.3	2365.3	1068.9	2525.6
2.915	272.0	918.1	0.0	0.0	2478.5	2478.5	1238.6	2793.6
3.600	245.8	868.0	0.0	0.0	2677.9	2677.9	1566.5	3319.5
4.372	216.0	814.7	0.0	0.0	2959.7	2959.7	1896.7	3850.0
5.512	171.7	739.0	0.0	0.0	3309.5	3309.5	2349.3	4578.0
5.830	159.3	717.9	0.0	0.0	3355.9	3355.9	2475.7	4781.2
6.600	131.2	669.7	0.0	0.0	3578.7	3578.7	2690.5	5129.6
7.287	106.1	626.6	0.0	0.0	3820.6	3820.6	2882.4	5440.7
7.600	94.7	607.1	0.0	0.0	3863.6	3863.6	2969.6	5582.1
8.745	46.5	536.2	0.0	0.0	4180.1	4180.1	3356.1	5981.2
10.202	-12.9	445.3	0.0	0.0	4183.3	4183.3	3731.2	6322.6
11.660	-65.3	352.8	0.0	0.0	4186.4	4186.4	4016.8	6627.8
13.117	-114.3	256.6	0.0	0.0	4187.5	4187.5	4154.9	5680.4
14.575	-173.7	173.7	0.0	0.0	4188.5	4188.5	4675.9	4675.9
16.032	-256.6	114.3	0.0	0.0	4187.5	4187.5	4154.9	5680.4
17.490	-352.8	65.3	0.0	0.0	4186.4	4186.4	4016.8	6627.8
18.947	-445.3	12.9	0.0	0.0	4183.3	4183.3	3731.2	6322.6
20.405	-536.2	-46.5	0.0	0.0	4180.1	4180.1	3356.1	5981.2
21.550	-607.1	-94.7	0.0	0.0	3863.6	3863.6	2969.6	5582.1
21.862	-626.6	-106.1	0.0	0.0	3820.6	3820.6	2882.4	5440.7
22.550	-669.7	-131.2	0.0	0.0	3578.7	3578.7	2690.5	5129.6
23.320	-717.9	-159.3	0.0	0.0	3355.9	3355.9	2475.7	4781.2
23.638	-739.0	-171.7	0.0	0.0	3309.5	3309.5	2349.3	4578.0
24.778	-814.7	-216.0	0.0	0.0	2959.7	2959.7	1896.7	3850.0
25.550	-868.0	-245.8	0.0	0.0	2677.9	2677.9	1566.5	3319.5
26.235	-918.1	-272.0	0.0	0.0	2478.5	2478.5	1238.6	2793.6
26.550	-941.2	-284.0	0.0	0.0	2365.3	2365.3	1068.9	2525.6
27.692	-1013.4	-320.5	0.0	0.0	2047.9	2047.9	536.3	1473.4
28.550	-1055.9	-340.7	0.0	0.0	1723.0	1723.0	220.7	602.7
29.149	-1085.5	-354.9	0.0	0.0	776.8	776.8	-5.5	0.3
29.151	8.2	11.4	0.0	0.0	773.3	773.3	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	19.4	19.4	-0.1	-0.0

Viga 2. Tras la apertura al tráfico
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1	V_u	V_{nmax}	V_r	V_u/V_r	Observaciones
(m)	(kN)	(kN)	(kN)		
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	1085.5	2769.9	2492.9	0.435	Cumple
0.600	1055.9	3230.7	2907.6	0.363	Cumple
1.457	1013.4	3219.3	2897.4	0.350	Cumple
2.600	941.2	3212.1	2890.9	0.326	Cumple

2.915	918.1	3210.1	2889.1	0.318	Cumple
3.600	868.0	3206.8	2886.1	0.301	Cumple
4.372	814.7	3196.7	2877.0	0.283	Cumple
5.512	739.0	3185.4	2866.8	0.258	Cumple
5.830	717.9	3183.2	2864.9	0.251	Cumple
6.600	669.7	3177.2	2859.5	0.234	Cumple
7.287	626.6	3171.9	2854.7	0.220	Cumple
7.600	607.1	3170.3	2853.2	0.213	Cumple
8.745	536.2	3164.3	2847.8	0.188	Cumple
10.202	445.3	3164.3	2847.8	0.156	Cumple
11.660	352.8	3164.3	2847.8	0.124	Cumple
13.117	256.6	3164.3	2847.8	0.090	Cumple
14.575	173.7	3164.3	2847.8	0.061	Cumple
16.032	256.6	3164.3	2847.8	0.090	Cumple
17.490	352.8	3164.3	2847.8	0.124	Cumple
18.947	445.3	3164.3	2847.8	0.156	Cumple
20.405	536.2	3164.3	2847.8	0.188	Cumple
21.550	607.1	3170.3	2853.2	0.213	Cumple
21.862	626.6	3171.9	2854.7	0.220	Cumple
22.550	669.7	3177.2	2859.5	0.234	Cumple
23.320	717.9	3183.2	2864.9	0.251	Cumple
23.638	739.0	3185.4	2866.8	0.258	Cumple
24.778	814.7	3196.7	2877.0	0.283	Cumple
25.550	868.0	3206.8	2886.1	0.301	Cumple
26.235	918.1	3210.1	2889.1	0.318	Cumple
26.550	941.2	3212.1	2890.9	0.326	Cumple
27.692	1013.4	3219.3	2897.4	0.350	Cumple
28.550	1055.9	3230.7	2907.6	0.363	Cumple
29.149	1085.5	2769.9	2492.9	0.435	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. Tras la apertura al tráfico
Armadura de cortante

Distancia al eje 1	V_u	V_c	V_s	V_p	V_n	V_r	A_{st}	$A_{st\ min}$	$S_{max\ long}$
(m)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(cm^2/m)	(cm^2/m)	(m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	1085.5	113.5	1092.7	-0.0	1206.2	1085.5	20.5	2.0	0.610
0.600	1055.9	467.5	705.7	-0.0	1173.2	1055.9	5.8	2.0	0.610
1.457	1013.4	629.9	496.0	-0.0	1126.0	1013.4	3.8	2.0	0.610
2.600	941.2	491.7	554.1	-0.0	1045.8	941.2	4.5	2.0	0.610
2.915	918.1	454.1	566.0	-0.0	1020.1	918.1	4.7	2.0	0.610
3.600	868.0	447.6	516.9	-0.0	964.4	868.0	4.4	2.0	0.610
4.372	814.7	432.0	473.2	-0.0	905.2	814.7	4.0	2.0	0.610
5.512	739.0	428.0	393.1	-0.0	821.1	739.0	3.4	2.0	0.610
5.830	717.9	404.1	393.5	-0.0	797.6	717.9	3.4	2.0	0.610
6.600	669.7	424.4	319.7	-0.0	744.1	669.7	2.8	2.0	0.610
7.287	626.6	428.9	267.4	-0.0	696.3	626.6	2.3	2.0	0.610
7.600	607.1	435.1	239.4	-0.0	674.5	607.1	2.1	2.0	0.610
8.745	536.2	459.2	136.6	-0.0	595.8	536.2	1.2	2.0	0.610
10.202	445.3	432.0	62.8	-0.0	494.8	445.3	0.5	2.0	0.610
11.660	352.8	412.4	0.0	-0.0	412.4	371.1	2.0	2.0	0.610
13.117	256.6	604.6	0.0	-0.0	604.6	544.1	2.0	2.0	0.610
14.575	173.7	403.5	0.0	-0.0	403.5	363.2	0.0	0.0	0.610
16.032	256.6	604.6	0.0	-0.0	604.6	544.1	2.0	2.0	0.610
17.490	352.8	412.4	0.0	-0.0	412.4	371.1	2.0	2.0	0.610
18.947	445.3	432.0	62.8	-0.0	494.8	445.3	0.5	2.0	0.610
20.405	536.2	459.2	136.6	-0.0	595.8	536.2	1.2	2.0	0.610
21.550	607.1	435.1	239.4	-0.0	674.5	607.1	2.1	2.0	0.610
21.862	626.6	428.9	267.4	-0.0	696.3	626.6	2.3	2.0	0.610
22.550	669.7	424.4	319.7	-0.0	744.1	669.7	2.8	2.0	0.610
23.320	717.9	404.1	393.5	-0.0	797.6	717.9	3.4	2.0	0.610
23.638	739.0	428.0	393.1	-0.0	821.1	739.0	3.4	2.0	0.610
24.778	814.7	432.0	473.2	-0.0	905.2	814.7	4.0	2.0	0.610

25.550	868.0	447.6	516.9	-0.0	964.4	868.0	4.4	2.0	0.610
26.235	918.1	454.1	566.0	-0.0	1020.1	918.1	4.7	2.0	0.610
26.550	941.2	491.7	554.1	-0.0	1045.8	941.2	4.5	2.0	0.610
27.692	1013.4	629.9	496.0	-0.0	1126.0	1013.4	3.8	2.0	0.610
28.550	1055.9	467.5	705.7	-0.0	1173.2	1055.9	5.8	2.0	0.610
29.149	1085.5	113.5	1092.7	-0.0	1206.2	1085.5	20.5	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. Tras la apertura al tráfico
Armadura de cortante

Distancia al eje 1 (m)	θ (º)	b_0 (m)	d_v (m)	$f_{y\,\alpha d}$ (MPa)	β	v (kN/m^2)	ε
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	5443	0.00600
0.600	31.6	0.174	1.485	500.0	3.083	4539	0.00074
1.457	29.7	0.174	1.480	500.0	4.169	4372	0.00020
2.600	31.2	0.174	1.477	500.0	3.261	4070	0.00063
2.915	31.8	0.174	1.476	500.0	3.014	3972	0.00079
3.600	31.9	0.174	1.474	500.0	2.973	3759	0.00082
4.372	32.1	0.174	1.470	500.0	2.879	3540	0.00089
5.512	32.2	0.174	1.465	500.0	2.863	3222	0.00090
5.830	32.6	0.174	1.464	500.0	2.705	3132	0.00103
6.600	32.2	0.174	1.461	500.0	2.846	2927	0.00092
7.287	32.1	0.174	1.458	500.0	2.881	2744	0.00089
7.600	32.0	0.174	1.458	500.0	2.924	2660	0.00086
8.745	31.6	0.174	1.455	500.0	3.092	2354	0.00074
10.202	32.0	0.174	1.455	500.0	2.909	1955	0.00087
11.660	32.4	0.174	1.455	500.0	2.776	1549	0.00097
13.117	29.8	0.174	1.455	500.0	4.071	1126	0.00024
14.575	28.8	0.174	1.455	0.0	2.717	762	-0.00006
16.032	29.8	0.174	1.455	500.0	4.071	1126	0.00024
17.490	32.4	0.174	1.455	500.0	2.776	1549	0.00097
18.947	32.0	0.174	1.455	500.0	2.909	1955	0.00087
20.405	31.6	0.174	1.455	500.0	3.092	2354	0.00074
21.550	32.0	0.174	1.458	500.0	2.924	2660	0.00086
21.862	32.1	0.174	1.458	500.0	2.881	2744	0.00089
22.550	32.2	0.174	1.461	500.0	2.846	2927	0.00092
23.320	32.6	0.174	1.464	500.0	2.705	3132	0.00103
23.638	32.2	0.174	1.465	500.0	2.863	3222	0.00090
24.778	32.1	0.174	1.470	500.0	2.879	3540	0.00089
25.550	31.9	0.174	1.474	500.0	2.973	3759	0.00082
26.235	31.8	0.174	1.476	500.0	3.014	3972	0.00079
26.550	31.2	0.174	1.477	500.0	3.261	4070	0.00063
27.692	29.7	0.174	1.480	500.0	4.169	4372	0.00020
28.550	31.6	0.174	1.485	500.0	3.083	4539	0.00074
29.149	50.0	0.174	1.273	500.0	0.873	5443	0.00600
29.151	29.9	0.174	1.273	0.0	2.355	57	0.00025
29.540	29.8	0.174	1.273	0.0	2.404	1	0.00022

Viga 2. A tiempo infinito
Envolvente de esfuerzos.

	Cortantes		Cortantes de pretensado		Axiles y flectores			
Distancia al eje 1 (m)	V_{u-} (kN)	V_{u+} (kN)	V_{p-} (kN)	V_{p+} (kN)	N_{p-} (kN)	N_{p+} (kN)	M_{u-} (kNm)	M_{u+} (kNm)
-0.390	-0.3	-0.2	0.0	0.0	18.6	18.6	-0.1	-0.0
-0.001	-11.4	-8.2	0.0	0.0	742.6	742.6	-2.3	-1.6
0.001	354.9	1085.5	0.0	0.0	745.9	745.9	-5.5	0.3
0.600	340.7	1055.9	0.0	0.0	1616.0	1616.0	220.7	602.7
1.457	320.5	1013.4	0.0	0.0	1918.0	1918.0	536.3	1473.4

2.600	284.0	941.2	0.0	0.0	2218.1	2218.1	1068.9	2525.6
2.915	272.0	918.1	0.0	0.0	2318.1	2318.1	1238.6	2793.6
3.600	245.8	868.0	0.0	0.0	2509.5	2509.5	1566.5	3319.5
4.372	216.0	814.7	0.0	0.0	2771.4	2771.4	1896.7	3850.0
5.512	171.7	739.0	0.0	0.0	3092.0	3092.0	2349.3	4578.0
5.830	159.3	717.9	0.0	0.0	3132.7	3132.7	2475.7	4781.2
6.600	131.2	669.7	0.0	0.0	3345.6	3345.6	2690.5	5129.6
7.287	106.1	626.6	0.0	0.0	3567.5	3567.5	2882.4	5440.7
7.600	94.7	607.1	0.0	0.0	3608.4	3608.4	2969.6	5582.1
8.745	46.5	536.2	0.0	0.0	3892.8	3892.8	3356.1	5981.2
10.202	-12.9	445.3	0.0	0.0	3903.1	3903.1	3731.2	6322.6
11.660	-65.3	352.8	0.0	0.0	3912.9	3912.9	4016.8	6627.8
13.117	-114.3	256.6	0.0	0.0	3916.4	3916.4	4154.9	5680.4
14.575	-173.7	173.7	0.0	0.0	3919.4	3919.4	4675.9	4675.9
16.032	-256.6	114.3	0.0	0.0	3916.4	3916.4	4154.9	5680.4
17.490	-352.8	65.3	0.0	0.0	3912.9	3912.9	4016.8	6627.8
18.947	-445.3	12.9	0.0	0.0	3903.1	3903.1	3731.2	6322.6
20.405	-536.2	-46.5	0.0	0.0	3892.8	3892.8	3356.1	5981.2
21.550	-607.1	-94.7	0.0	0.0	3608.4	3608.4	2969.6	5582.1
21.862	-626.6	-106.1	0.0	0.0	3567.5	3567.5	2882.4	5440.7
22.550	-669.7	-131.2	0.0	0.0	3345.6	3345.6	2690.5	5129.6
23.320	-717.9	-159.3	0.0	0.0	3132.7	3132.7	2475.7	4781.2
23.638	-739.0	-171.7	0.0	0.0	3092.0	3092.0	2349.3	4578.0
24.778	-814.7	-216.0	0.0	0.0	2771.4	2771.4	1896.7	3850.0
25.550	-868.0	-245.8	0.0	0.0	2509.5	2509.5	1566.5	3319.5
26.235	-918.1	-272.0	0.0	0.0	2318.1	2318.1	1238.6	2793.6
26.550	-941.2	-284.0	0.0	0.0	2218.1	2218.1	1068.9	2525.6
27.692	-1013.4	-320.5	0.0	0.0	1918.0	1918.0	536.3	1473.4
28.550	-1055.9	-340.7	0.0	0.0	1616.0	1616.0	220.7	602.7
29.149	-1085.5	-354.9	0.0	0.0	745.9	745.9	-5.5	0.3
29.151	8.2	11.4	0.0	0.0	742.6	742.6	-2.3	-1.6
29.540	0.2	0.3	0.0	0.0	18.6	18.6	-0.1	-0.0

Viga 2. A tiempo infinito
Verificación por agotamiento de las bielas de compresión

Distancia al eje 1 (m)	V_u (kN)	V_{nmax} (kN)	V_r (kN)	V_u/V_r	Observaciones
-0.390	0.3	2769.9	2492.9	0.000	Cumple
-0.001	11.4	2769.9	2492.9	0.005	Cumple
0.001	1085.5	2769.9	2492.9	0.435	Cumple
0.600	1055.9	3230.7	2907.6	0.363	Cumple
1.457	1013.4	3219.3	2897.4	0.350	Cumple
2.600	941.2	3212.1	2890.9	0.326	Cumple
2.915	918.1	3210.1	2889.1	0.318	Cumple
3.600	868.0	3206.8	2886.1	0.301	Cumple
4.372	814.7	3196.7	2877.0	0.283	Cumple
5.512	739.0	3185.4	2866.8	0.258	Cumple
5.830	717.9	3183.2	2864.9	0.251	Cumple
6.600	669.7	3177.2	2859.5	0.234	Cumple
7.287	626.6	3171.9	2854.7	0.220	Cumple
7.600	607.1	3170.3	2853.2	0.213	Cumple
8.745	536.2	3164.3	2847.8	0.188	Cumple
10.202	445.3	3164.3	2847.8	0.156	Cumple
11.660	352.8	3164.3	2847.8	0.124	Cumple
13.117	256.6	3164.3	2847.8	0.090	Cumple
14.575	173.7	3164.3	2847.8	0.061	Cumple
16.032	256.6	3164.3	2847.8	0.090	Cumple
17.490	352.8	3164.3	2847.8	0.124	Cumple
18.947	445.3	3164.3	2847.8	0.156	Cumple
20.405	536.2	3164.3	2847.8	0.188	Cumple
21.550	607.1	3170.3	2853.2	0.213	Cumple
21.862	626.6	3171.9	2854.7	0.220	Cumple
22.550	669.7	3177.2	2859.5	0.234	Cumple
23.320	717.9	3183.2	2864.9	0.251	Cumple
23.638	739.0	3185.4	2866.8	0.258	Cumple

24.778	814.7	3196.7	2877.0	0.283	Cumple
25.550	868.0	3206.8	2886.1	0.301	Cumple
26.235	918.1	3210.1	2889.1	0.318	Cumple
26.550	941.2	3212.1	2890.9	0.326	Cumple
27.692	1013.4	3219.3	2897.4	0.350	Cumple
28.550	1055.9	3230.7	2907.6	0.363	Cumple
29.149	1085.5	2769.9	2492.9	0.435	Cumple
29.151	11.4	2769.9	2492.9	0.005	Cumple
29.540	0.3	2769.9	2492.9	0.000	Cumple

Viga 2. A tiempo infinito
Armadura de cortante

Distancia al eje 1 (m)	V_u (kN)	V_c (kN)	V_s (kN)	V_p (kN)	V_n (kN)	V_r (kN)	A_{st} (cm^2/m)	$A_{st\ min}$ (cm^2/m)	$S_{max\ long}$ (m)
-0.390	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610
-0.001	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
0.001	1085.5	113.5	1092.7	-0.0	1206.2	1085.5	20.5	2.0	0.610
0.600	1055.9	467.5	705.7	-0.0	1173.2	1055.9	5.8	2.0	0.610
1.457	1013.4	629.9	496.0	-0.0	1126.0	1013.4	3.8	2.0	0.610
2.600	941.2	491.7	554.1	-0.0	1045.8	941.2	4.5	2.0	0.610
2.915	918.1	454.1	566.0	-0.0	1020.1	918.1	4.7	2.0	0.610
3.600	868.0	447.6	516.9	-0.0	964.4	868.0	4.4	2.0	0.610
4.372	814.7	432.0	473.2	-0.0	905.2	814.7	4.0	2.0	0.610
5.512	739.0	428.0	393.1	-0.0	821.1	739.0	3.4	2.0	0.610
5.830	717.9	404.1	393.5	-0.0	797.6	717.9	3.4	2.0	0.610
6.600	669.7	424.4	319.7	-0.0	744.1	669.7	2.8	2.0	0.610
7.287	626.6	428.9	267.4	-0.0	696.3	626.6	2.3	2.0	0.610
7.600	607.1	435.1	239.4	-0.0	674.5	607.1	2.1	2.0	0.610
8.745	536.2	459.2	136.6	-0.0	595.8	536.2	1.2	2.0	0.610
10.202	445.3	432.0	62.8	-0.0	494.8	445.3	0.5	2.0	0.610
11.660	352.8	412.4	0.0	-0.0	412.4	371.1	2.0	2.0	0.610
13.117	256.6	604.6	0.0	-0.0	604.6	544.1	2.0	2.0	0.610
14.575	173.7	403.5	0.0	-0.0	403.5	363.2	0.0	0.0	0.610
16.032	256.6	604.6	0.0	-0.0	604.6	544.1	2.0	2.0	0.610
17.490	352.8	412.4	0.0	-0.0	412.4	371.1	2.0	2.0	0.610
18.947	445.3	432.0	62.8	-0.0	494.8	445.3	0.5	2.0	0.610
20.405	536.2	459.2	136.6	-0.0	595.8	536.2	1.2	2.0	0.610
21.550	607.1	435.1	239.4	-0.0	674.5	607.1	2.1	2.0	0.610
21.862	626.6	428.9	267.4	-0.0	696.3	626.6	2.3	2.0	0.610
22.550	669.7	424.4	319.7	-0.0	744.1	669.7	2.8	2.0	0.610
23.320	717.9	404.1	393.5	-0.0	797.6	717.9	3.4	2.0	0.610
23.638	739.0	428.0	393.1	-0.0	821.1	739.0	3.4	2.0	0.610
24.778	814.7	432.0	473.2	-0.0	905.2	814.7	4.0	2.0	0.610
25.550	868.0	447.6	516.9	-0.0	964.4	868.0	4.4	2.0	0.610
26.235	918.1	454.1	566.0	-0.0	1020.1	918.1	4.7	2.0	0.610
26.550	941.2	491.7	554.1	-0.0	1045.8	941.2	4.5	2.0	0.610
27.692	1013.4	629.9	496.0	-0.0	1126.0	1013.4	3.8	2.0	0.610
28.550	1055.9	467.5	705.7	-0.0	1173.2	1055.9	5.8	2.0	0.610
29.149	1085.5	113.5	1092.7	-0.0	1206.2	1085.5	20.5	2.0	0.610
29.151	11.4	306.2	0.0	-0.0	306.2	275.6	0.0	0.0	0.610
29.540	0.3	312.6	0.0	-0.0	312.6	281.3	0.0	0.0	0.610

Viga 2. A tiempo infinito
Armadura de cortante

Distancia al eje 1 (m)	θ (º)	b_0 (m)	d_v (m)	$f_{y\,\alpha d}$ (MPa)	β	v (kN/m^2)	ε
-0.390	29.8	0.174	1.273	0.0	2.404	1	0.00022
-0.001	29.9	0.174	1.273	0.0	2.355	57	0.00025
0.001	50.0	0.174	1.273	500.0	0.873	5443	0.00600
0.600	31.6	0.174	1.485	500.0	3.083	4539	0.00074
1.457	29.7	0.174	1.480	500.0	4.169	4372	0.00020
2.600	31.2	0.174	1.477	500.0	3.261	4070	0.00063