

Tabla 101. Solicitaciones mínimas en pedestales.

Nudos	Combinación 1 Valores Mínimos					Combinación 1 Valores Mínimos				
	F1	F2	F3	M1	M2	F1	F2	F3	M1	M2
25015	-398.52	-154.17	-178.47	-612.53	-1679.24	-125.42	-441.66	-2162.88	-1682.44	-544.28
25016	-815.30	-152.55	417.03	-600.47	-1756.53	-266.21	-448.42	884.58	-1695.03	-570.34
25017	-750.89	-150.53	1335.24	-589.25	-1714.77	-246.15	-453.84	1304.58	-1710.04	-556.09
25018	-754.84	-147.69	1576.75	-579.85	-1714.42	-246.77	-455.90	1378.06	-1730.52	-555.29
25019	-681.97	-168.28	1512.85	-644.06	-1708.96	-223.12	-526.19	1189.92	-1991.05	-553.02
25020	-737.14	-145.95	1298.67	-561.85	-1700.41	-239.93	-467.49	1296.44	-1769.53	-549.87
25021	-712.55	-147.72	372.04	-555.53	-1680.47	-234.20	-477.13	1013.80	-1788.70	-543.98
25022	-703.27	-148.96	613.03	-562.26	-1672.41	-229.88	-481.16	-1020.84	-1817.26	-541.13
25023	-698.45	-155.83	1268.41	-582.61	-1669.69	-226.70	-497.71	938.52	-1850.55	-539.87
25024	-700.14	-160.20	943.29	-607.00	-1671.73	-228.30	-502.98	978.63	-1884.72	-540.81
25025	-710.50	-166.36	1069.43	-632.87	-1679.74	-231.40	-512.29	1132.20	-1921.37	-543.11
25026	-732.23	-173.46	992.05	-659.75	-1697.80	-237.70	-523.93	990.85	-1959.80	-548.38
25027	-799.33	-180.03	1417.33	-686.96	-1743.74	-258.61	-533.04	991.35	-1998.99	-562.38
25028	-409.68	-187.20	-349.48	-714.18	-1673.66	-142.23	-546.26	-773.42	-2039.69	-541.16
25029	-393.66	-327.88	685.35	-652.17	-1667.73	-126.00	-904.48	874.66	-1793.19	-518.01
25030	-806.06	-323.44	1520.74	-639.51	-1742.03	-260.64	-916.96	1504.94	-1807.27	-542.72
25031	-734.42	-317.83	1293.54	-627.57	-1693.33	-238.21	-925.15	642.74	-1823.28	-527.21
25032	-711.88	-314.65	1564.98	-617.76	-1674.21	-230.98	-940.31	1552.64	-1845.79	-521.03
25033	-699.41	-395.74	1344.55	-663.55	-1664.85	-227.02	-1198.87	827.18	-2049.46	-518.00
25034	-696.09	-307.30	1556.10	-598.49	-1661.07	-225.88	-962.78	1549.76	-1887.45	-516.74
25035	-694.10	-305.26	1282.96	-591.55	-1659.30	-225.58	-970.49	809.12	-1907.27	-516.31
25036	-694.00	-309.44	1144.88	-598.69	-1659.10	-225.02	-984.21	184.66	-1937.54	-515.99
25037	-695.30	-319.33	678.39	-620.22	-1660.36	-225.41	-1002.26	-1182.82	-1972.36	-516.32
25038	-700.08	-332.11	1459.67	-646.44	-1664.20	-227.73	-1022.57	1179.09	-2009.62	-517.70
25039	-709.99	-345.93	1565.15	-674.13	-1672.54	-229.33	-1042.75	1552.73	-2048.85	-519.67
25040	-731.30	-359.98	1276.43	-702.72	-1690.63	-235.35	-1063.26	553.37	-2089.62	-524.79
25041	-799.96	-374.66	1518.26	-731.78	-1736.79	-254.70	-1084.56	1510.17	-2131.56	-537.72
25042	-411.14	-387.77	17.31	-760.48	-1666.62	-143.55	-1103.08	-1180.76	-2173.94	-517.02
25043	-393.73	-174.41	-578.37	-610.44	-1682.01	-133.03	-461.98	-1764.12	-1680.37	-568.11
25044	-811.05	-172.22	1143.13	-598.38	-1757.07	-280.21	-467.60	681.12	-1692.89	-594.84
25045	-739.01	-169.29	866.34	-587.13	-1707.78	-255.84	-470.18	492.90	-1707.74	-577.65
25046	-714.57	-168.83	1545.82	-577.68	-1687.87	-247.16	-479.99	1046.09	-1728.02	-570.51
25047	-703.53	-212.93	1508.49	-600.94	-1678.64	-243.27	-618.60	923.14	-1854.53	-567.14
25048	-699.11	-166.97	944.30	-559.62	-1674.47	-241.80	-491.89	1001.32	-1767.03	-565.58
25049	-699.33	-166.52	1015.86	-553.32	-1673.28	-242.22	-494.31	610.15	-1786.41	-565.20
25050	-698.72	-170.85	730.60	-560.35	-1673.14	-242.26	-506.49	63.23	-1815.71	-565.24
25051	-697.47	-172.73	536.39	-580.19	-1673.98	-240.60	-507.27	-949.04	-1847.34	-565.23
25052	-703.70	-179.45	1187.54	-604.87	-1678.28	-242.19	-520.76	705.74	-1882.44	-566.48
25053	-714.72	-185.81	1046.12	-630.77	-1687.04	-246.31	-531.11	718.80	-1919.22	-569.33
25054	-734.45	-192.10	1466.90	-657.56	-1704.85	-252.02	-539.93	736.25	-1957.33	-574.54
25055	-804.90	-199.43	988.52	-684.87	-1751.75	-275.36	-551.87	469.89	-1996.86	-589.31
25056	-412.62	-204.29	-848.33	-711.81	-1681.04	-152.06	-557.81	-2301.62	-2036.72	-566.58

ANEXO 4. RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

o Bloque Ginecobstétrico 2.

Tabla 102. Características generales de la respuesta dinámica de la estructura.

T O T A L A S S E M B L E D J O I N T M A S S E S							
IN GLOBAL COORDINATES							
	UX	UY	UZ	RX	RY		
RZ							
TOTAL	4409.898	4409.898	4409.898	.000000	.000000		
.000000							
M O D A L P E R I O D S A N D F R E Q U E N C I E S							
MODE	PERIOD (TIME)	FREQUENCY (CYC/TIME)	FREQUENCY (RAD/TIME)	EIGENVALUE (RAD/TIME)**2			
1	0.780061	1.281951	8.054733	64.878728			
2	0.624838	1.600414	10.055696	101.117029			
3	0.597818	1.672750	10.510201	110.464319			
4	0.215720	4.635635	29.126553	848.356083			
5	0.183176	5.459216	34.301267	1176.577			
6	0.158221	6.320257	39.711348	1576.991			
7	0.133443	7.493819	47.085050	2217.002			
8	0.073419	13.620441	85.579754	7323.894			
9	0.057409	17.418764	109.445322	11978.279			
M O D A L P A R T I C I P A T I N G M A S S R A T I O S							
MODE	PERIOD	INDIVIDUAL MODE (PERCENT)			CUMULATIVE SUM (PERCENT)		
		UX	UY	UZ	UX	UY	UZ
1	0.780061	0.4243	65.6867	0.0003	0.4243	65.6867	0.0003
2	0.624838	1.2116	23.3380	0.0001	1.6359	89.0246	0.0004
3	0.597818	91.5542	0.0013	0.0000	93.1900	89.0259	0.0004
4	0.215720	0.0411	4.6538	0.2061	93.2312	93.6797	0.2065
5	0.183176	0.0045	0.0725	12.8341	93.2357	93.7522	13.0405
6	0.158221	0.0766	0.0034	0.5411	93.3123	93.7556	13.5816
7	0.133443	0.0038	0.0219	2.4586	93.3161	93.7775	16.0402
8	0.073419	0.0027	0.0012	66.9883	93.3188	93.7787	83.0285
9	0.057409	1.7143	0.0788	0.1637	95.0331	93.8574	83.1922

ANEXO 4. RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

R E S P O N S E S P E C T R U M B A S E R E A C T I O N S

IN RESPONSE-SPECTRUM LOCAL COORDINATES

SPEC SISMOX -----

FOR EACH MODE, DUE TO SPECTRAL ACCELERATION IN DIRECTION U1:

MODE	F1	F2	F3	M1	M2	M3
1	139.919453	-1740.884	3.658266	15174.370	1207.386	23147.103
2	399.508990	1753.423	-3.843632	-14305.541	3315.677	70856.373
3	30189.934	114.069860	-0.977177	-1016.885	243182.822	-105370.975
4	13.566274	-144.286123	-30.363333	-1209.154	8.261699	1919.586
5	1.417865	-5.699081	75.815983	107.313095	-41.869030	169.519846
6	22.631988	-4.754216	-60.136764	1774.226	-3082.046	1647.093
7	1.041065	2.502166	26.524825	-101.409975	-344.044047	-20.168593
8	0.603455	0.397706	-95.454967	-54.463857	-31.813215	-2.083606
9	363.781984	77.977685	112.399810	-1995.814	-4853.185	-55.074431

COMBINED FOR ALL MODES AND ALL DIRECTIONS OF SPECTRAL ACCELERATION:

	F1	F2	F3	M1	M2	M3
SPEC	30544.970	2325.757	159.407450	19802.259	246166.389	64271.989

SPEC SISMOY -----

FOR EACH MODE, DUE TO SPECTRAL ACCELERATION IN DIRECTION U2:

MODE	F1	F2	F3	M1	M2	M3
1	-1740.884	21660.151	-45.516297	-188800.160	-15022.345	-287997.245
2	1753.423	7695.676	-16.869490	-62786.229	14552.324	310984.706
3	114.069860	0.431002	-0.003692	-3.842206	918.843698	-398.134439
4	-144.286123	1534.577	322.933739	12860.134	-87.868527	-20416.047
5	-5.699081	22.907346	-304.740890	-431.342930	168.291767	-681.381776
6	-4.754216	0.998700	12.632702	-372.704939	647.433661	-345.998530
7	2.502166	6.013872	63.751531	-243.735485	-826.898366	-48.474540
8	0.397706	0.262108	-62.909450	-35.894322	-20.966451	-1.373198
9	77.977685	16.714735	24.093213	-427.808235	-1040.294	-11.805358

COMBINED FOR ALL MODES AND ALL DIRECTIONS OF SPECTRAL ACCELERATION:

	F1	F2	F3	M1	M2	M3
SPEC	2325.757	24227.637	389.267287	209007.446	19650.947	387179.601

ANEXO 4 RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 103. Desplazamientos máximos.

Nivel de Zapata												
Nudos	Estados	U1	U2	Delta 1	Delta 2	Delta Inel 1	Delta Inel 2	Flexibilidad		Permisi ble	Por Ciento	
10115	COMB1 MAX	0.00558	0.00338	0.00558	0.00338	0.00837	0.005073	7.87	4,97			
10115	COMB1 MIN	-0.00556	-0.00337	-0.00556	-0.00337	-0.00833	-0.005048	7.84	5,00			
10115	COMB2 MAX	0.00269	0.00802	0.00269	0.00802	0.00404	0.012032	6.46	4,54			
10115	COMB2 MIN	-0.00267	-0.00800	-0.00267	-0.00800	-0.004	-0.012006	6.40	4,55			
10128	COMB1 MAX	0.00556	0.00233	0.00556	0.00233	0.00833	0.003495	7.83	7,44			
10128	COMB1 MIN	-0.00558	-0.00231	-0.00558	-0.00231	-0.00837	-0.00347	7.87	7,53			
10128	COMB2 MAX	0.00267	0.00562	0.00267	0.00562	0.004	0.008433	6.40	7,35			
10128	COMB2 MIN	-0.00269	-0.00561	-0.00269	-0.00561	-0.00404	-0.008408	6.46	7,38			
10143	COMB1 MAX	0.00549	0.00337	0.00549	0.00337	0.00824	0.005049	8.23	4,95			
10143	COMB1 MIN	-0.00547	-0.00338	-0.00547	-0.00338	-0.0082	-0.005072	8.19	5,02			
10143	COMB2 MAX	0.00192	0.00801	0.00192	0.00801	0.00288	0.012008	7.69	4,53			
10143	COMB2 MIN	-0.00190	-0.00802	-0.00190	-0.00802	-0.00285	-0.012029	7.60	4,56			
10156	COMB1 MAX	0.00547	0.00231	0.00547	0.00231	0.0082	0.003471	8.19	7,39			
10156	COMB1 MIN	-0.00549	-0.00233	-0.00549	-0.00233	-0.00824	-0.003494	8.23	7,59			
10156	COMB2 MAX	0.00190	0.00561	0.00190	0.00561	0.00285	0.008409	7.59	7,33			
10156	COMB2 MIN	-0.00192	-0.00562	-0.00192	-0.00562	-0.00288	-0.008432	7.68	7,40			
Primer Nivel												
10215	COMB1 MAX	0.05960	0.03520	0.05402	0.03182	0.08103	0.047727	76.19	46,79	0,022	245,55	144,63
10215	COMB1 MIN	-0.05960	-0.03520	-0.05404	-0.03184	-0.08107	-0.047753	76.23	47,30	0,022	245,65	144,70
10215	COMB2 MAX	0.02870	0.08360	0.02601	0.07558	0.03901	0.113369	62.36	42,80	0,022	118,21	343,54
10215	COMB2 MIN	-0.02870	-0.08350	-0.02603	-0.07550	-0.03905	-0.113244	62.42	42,90	0,022	118,32	343,16
10228	COMB1 MAX	0.05960	0.02440	0.05405	0.02207	0.08107	0.033105	76.23	70,51	0,022	245,66	100,32
10228	COMB1 MIN	-0.05960	-0.02430	-0.05402	-0.02199	-0.08103	-0.032981	76.19	71,62	0,022	245,55	99,94
10228	COMB2 MAX	0.02870	0.05880	0.02603	0.05318	0.03905	0.079767	62.43	69,51	0,022	118,33	241,72
10228	COMB2 MIN	-0.02870	-0.05880	-0.02601	-0.05320	-0.03901	-0.079793	62.37	69,99	0,022	118,21	241,80
10243	COMB1 MAX	0.05860	0.03520	0.05311	0.03183	0.07967	0.047751	79.63	46,81	0,022	241,41	144,70
10243	COMB1 MIN	-0.05860	-0.03520	-0.05313	-0.03182	-0.0797	-0.047729	79.66	47,28	0,022	241,52	144,63
10243	COMB2 MAX	0.02060	0.08360	0.01868	0.07560	0.02802	0.113393	74.71	42,81	0,022	84,90	343,61
10243	COMB2 MIN	-0.02060	-0.08350	-0.01870	-0.07548	-0.02805	-0.113222	74.80	42,89	0,022	85,00	343,10
10256	COMB1 MAX	0.05860	0.02440	0.05313	0.02209	0.0797	0.033129	79.66	70,56	0,022	241,52	100,39
10256	COMB1 MIN	-0.05860	-0.02430	-0.05311	-0.02197	-0.07967	-0.032957	79.63	71,57	0,022	241,41	99,87
10256	COMB2 MAX	0.02060	0.05880	0.01870	0.05319	0.02805	0.079791	74.81	69,53	0,022	85,01	241,79
10256	COMB2 MIN	-0.02060	-0.05880	-0.01868	-0.05318	-0.02802	-0.079769	74.72	69,97	0,022	84,90	241,72
Segundo Nivel												
10315	COMB1 MAX	0.06840	0.06250	0.00880	0.02730	0.0132	0.04095	12.41	40,15	0,022	40,00	124,09
10315	COMB1 MIN	-0.06840	-0.06230	-0.00880	-0.02710	-0.0132	-0.04065	12.41	40,27	0,022	40,00	123,18
10315	COMB2 MAX	0.03990	0.16250	0.01120	0.07890	0.0168	0.11835	26.86	44,68	0,022	50,91	358,64
10315	COMB2 MIN	-0.03990	-0.16230	-0.01120	-0.07880	-0.0168	-0.1182	26.86	44,77	0,022	50,91	358,18

ANEXO 4. RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 103. Desplazamientos máximos. (Continuación).

10328	COMB1 MAX	0.06840	0.02740	0.00880	0.00300	0.0132	0.0045	12.41	9.58	0.022	40.00	13.64
10328	COMB1 MIN	-0.06840	-0.02730	-0.00880	-0.00300	-0.0132	-0.0045	12.41	9.77	0.022	40.00	13.64
10328	COMB2 MAX	0.03990	0.06680	0.01120	0.00800	0.0168	0.012	26.86	10.46	0.022	50.91	36.36
10328	COMB2 MIN	-0.03990	-0.06670	-0.01120	-0.00790	-0.0168	-0.01185	26.86	10.39	0.022	50.91	35.91
10343	COMB1 MAX	0.06450	0.06250	0.00590	0.02730	0.00885	0.04095	8.85	40.15	0.022	26.82	124.09
10343	COMB1 MIN	-0.06450	-0.06230	-0.00590	-0.02710	-0.00885	-0.04065	8.85	40.27	0.022	26.82	123.18
10343	COMB2 MAX	0.02390	0.16250	0.00330	0.07890	0.00495	0.11835	13.20	44.68	0.022	15.00	358.64
10343	COMB2 MIN	-0.02390	-0.16230	-0.00330	-0.07880	-0.00495	-0.1182	13.20	44.77	0.022	15.00	358.18
10356	COMB1 MAX	0.06450	0.02740	0.00590	0.00300	0.00885	0.0045	8.85	9.58	0.022	26.82	13.64
10356	COMB1 MIN	-0.06450	-0.02730	-0.00590	-0.00300	-0.00885	-0.0045	8.85	9.77	0.022	26.82	13.64
10356	COMB2 MAX	0.02390	0.06680	0.00330	0.00800	0.00495	0.012	13.20	10.46	0.022	15.00	36.36
10356	COMB2 MIN	-0.02390	-0.06670	-0.00330	-0.00790	-0.00495	-0.01185	13.20	10.39	0.022	15.00	35.91
Tercer Nivel												
10415	COMB1 MAX	0.07010	0.06600	0.00170	0.00350	0.00255	0.00525	2.40	5.15	0.022	7.73	15.91
10415	COMB1 MIN	-0.07010	-0.06560	-0.00170	-0.00330	-0.00255	-0.00495	2.40	4.90	0.022	7.73	15.00
10415	COMB2 MAX	0.04110	0.17150	0.00120	0.00900	0.0018	0.0135	2.88	5.10	0.022	5.45	40.91
10415	COMB2 MIN	-0.04110	-0.17110	-0.00120	-0.00880	-0.0018	-0.0132	2.88	5.00	0.022	5.45	40.00
10428	COMB1 MAX	0.07010	0.02990	0.00170	0.00250	0.00255	0.00375	2.40	7.99	0.022	7.73	11.36
10428	COMB1 MIN	-0.07010	-0.02960	-0.00170	-0.00230	-0.00255	-0.00345	2.40	7.49	0.022	7.73	10.45
10428	COMB2 MAX	0.04110	0.07310	0.00120	0.00630	0.0018	0.00945	2.88	8.24	0.022	5.45	28.64
10428	COMB2 MIN	-0.04110	-0.07280	-0.00120	-0.00610	-0.0018	-0.00915	2.88	8.03	0.022	5.45	27.73
10443	COMB1 MAX	0.06610	0.06600	0.00160	0.00350	0.0024	0.00525	2.40	5.15	0.022	7.27	15.91
10443	COMB1 MIN	-0.06610	-0.06560	-0.00160	-0.00330	-0.0024	-0.00495	2.40	4.90	0.022	7.27	15.00
10443	COMB2 MAX	0.02470	0.17150	0.00080	0.00900	0.0012	0.0135	3.20	5.10	0.022	3.64	40.91
10443	COMB2 MIN	-0.02470	-0.17110	-0.00080	-0.00880	-0.0012	-0.0132	3.20	5.00	0.022	3.64	40.00
10456	COMB1 MAX	0.06610	0.02990	0.00160	0.00250	0.0024	0.00375	2.40	7.99	0.022	7.27	11.36
10456	COMB1 MIN	-0.06610	-0.02960	-0.00160	-0.00230	-0.0024	-0.00345	2.40	7.49	0.022	7.27	10.45
10456	COMB2 MAX	0.02470	0.07310	0.00080	0.00630	0.0012	0.00945	3.20	8.24	0.022	3.64	28.64
10456	COMB2 MIN	-0.02470	-0.07280	-0.00080	-0.00610	-0.0012	-0.00915	3.20	8.03	0.022	3.64	27.73
Cuarto Nivel												
10515	COMB1 MAX	0.07090	0.06800	0.00080	0.00200	0.0012	0.003	1.13	2.94	0.022	3.64	9.09
10515	COMB1 MIN	-0.07090	-0.06730	-0.00080	-0.00170	-0.0012	-0.00255	1.13	2.53	0.022	3.64	7.73
10515	COMB2 MAX	0.04170	0.17660	0.00060	0.00510	0.0009	0.00765	1.44	2.89	0.022	2.73	23.18
10515	COMB2 MIN	-0.04170	-0.17600	-0.00060	-0.00490	-0.0009	-0.00735	1.44	2.78	0.022	2.73	22.27
10528	COMB1 MAX	0.07090	0.03130	0.00080	0.00140	0.0012	0.0021	1.13	4.47	0.022	3.64	6.36
10528	COMB1 MIN	-0.07090	-0.03070	-0.00080	-0.00110	-0.0012	-0.00165	1.13	3.58	0.022	3.64	5.00
10528	COMB2 MAX	0.04170	0.07650	0.00060	0.00340	0.0009	0.0051	1.44	4.44	0.022	2.73	15.45
10528	COMB2 MIN	-0.04170	-0.07600	-0.00060	-0.00320	-0.0009	-0.0048	1.44	4.21	0.022	2.73	14.55
10543	COMB1 MAX	0.06670	0.06800	0.00060	0.00200	0.0009	0.003	0.90	2.94	0.022	2.73	9.09
10543	COMB1 MIN	-0.06670	-0.06730	-0.00060	-0.00170	-0.0009	-0.00255	0.90	2.53	0.022	2.73	7.73

ANEXO 4. RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 103. Desplazamientos máximos. (Continuación).

10543	COMB2 MAX	0.02500	0.17660	0.00030	0.00510	0.00045	0.00765	1 20	2.89	0.022	1 36	23.18
10543	COMB2 MIN	-0.02500	-0.17600	-0.00030	-0 00490	-0.00045	-0.00735	1 20	2.78	0.022	1 36	22.27
10556	COMB1 MAX	0.06670	0.03130	0.00060	0 00140	0 0009	0 0021	0 90	4.47	0.022	2 73	6 36
10556	COMB1 MIN	-0.06670	-0.03070	-0.00060	-0 00110	-0 0009	-0.00165	0 90	3.58	0.022	2.73	5.00
10556	COMB2 MAX	0.02500	0.07650	0.00030	0 00340	0.00045	0 0051	1 20	4.44	0.022	1.36	15.45
10556	COMB2 MIN	-0.02500	-0.07600	-0.00030	-0.00320	-0.00045	-0.0048	1.20	4.21	0.022	1.36	14.55

Tabla 104. Solicitaciones extremas en los tímpanos transversales (PN-11). Capacidad resistente del elemento 1466,5 kN.

PISO	EJE TRANSVERSAL	CRUJÍA	COMBINACIÓN 1 (KN)	COMBINACIÓN 2 (KN)	% DE LA CAPACIDAD DEL ELEMENTO	
					COMB1	COMB2
2	7	B-C	-2493.43	-6523.02	170.03	444.80
	10	B-C	-2430.07	-6548.72	165.71	446.55
	14	A-B	-1102.49	-2429.65	75.18	165.68
		B-C	-1480.11	-2990.2	100.93	203.90
3	1	A-B	-667.88	-1708.59	45.54	116.51
		B-C	-733.13	-1755.2	49.99	119.69
	3	B-C	-547.68	-1348.29	37.35	91.94
	5	B-C	-651.32	-1763.56	44.41	120.26
	7	B-C	-2359.8	-6353.44	160.91	433.24
	12	B-C	-453.47	-1106.04	30.92	75.42
		A-B	-502.47	-1288.62	34.26	87.87
	14	B-C	-1158.03	-2497.67	78.97	170.32
4	1	A-B	-582.7	-1572.27	39.73	107.21
		B-C	-688.4	-1755.87	46.94	119.73
	3	B-C	-447.57	-1237.21	30.52	84.36
	5	B-C	-195.15	-538.92	13.31	36.75
	7	B-C	-174.43	-478.3	11.89	32.62
	8	B-C	-360.61	-821.35	24.59	56.01
	12	B-C	-379.46	-1018.11	25.88	69.42
	14	A-B	-248.93	-670.57	16.97	45.73
		B-C	-502.47	-1288.62	34.26	87.87

ANEXO 4 RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 105. Solicitaciones extremas en los tímpanos longitudinales (PN-21 SR). Capacidad resistente del elemento 1805,8 kN.

PISO	EJE LONGITUDINAL	LUZ	COMBINACIÓN 1 (KN)	COMBINACIÓN 2 (KN)	% DE LA CAPACIDAD DEL ELEMENTO	
					COMB 1	COMB 2
2	A	2-3	-2705.99	-3717.33	149.85	205.86
		4-5	-2772.64	-3771.03	153.54	208.83
		12-13	-2730.96	-3732.28	151.23	206.68
	C	2-3	-1767.18	-1090.85	97.86	60.41
		3-4	-1803.25	-1095.16	99.86	60.65
		4-5	-1792.29	-815.79	99.25	45.18
		6-7	-4308.31	-3474.15	238.58	192.39
		8-9	-3839.45	-2513.07	212.62	139.17
		9-10	-3799.06	-2034.4	210.38	112.66
		10-11	-2012.43	-1464.74	111.44	81.11
		12-13	-1770.81	-1167.83	98.06	64.67
3	A	2-3	-468.35	-417.13	25.94	23.10
		4-5	-665.64	-473.55	36.86	26.22
		5-6	-1164.8	-890.43	64.50	49.31
		6-7	-869.95	-592.41	48.18	32.81
		8-9	-918.58	-638.16	50.87	35.34
		9-10	-1069.4	-748.6	59.22	41.46
		10-11	-1123.1	-802.86	62.19	44.46
		11-12	-1194.42	-908.46	66.14	50.31
		12-13	-580.27	-457.8	32.13	25.35
	C	2-3	-757.25	-512.11	41.93	28.36
		3-4	-1309.65	-808.43	72.52	44.77
		4-5	-891.45	-555.8	49.37	30.78
		5-6	-1300.26	-657.75	72.00	36.42
		6-7	-1067.8	-988.93	59.13	54.76
		8-9	-789.68	-428.9	43.73	23.75
		10-11	-1099.14	-824.16	60.87	45.64
		11-12	-1297.83	-753.79	71.87	41.74
		12-13	-652.87	-370.47	36.15	20.52
4	A	2-3	-112.57	-218.49	6.23	12.10
		3-4	-856.59	-795.11	47.44	44.03
		4-5	-126.55	-208.66	7.01	11.55
		5-6	-370.85	-377.25	20.54	20.89
		6-7	-160.16	-183.92	8.87	10.18
		8-9	-202.2	-222.68	11.20	12.33
		9-10	-376.57	-358.22	20.85	19.84
		10-11	-442.11	-423.17	24.48	23.43
		11-12	-412.78	-405.38	22.86	22.45
		12-13	-151.04	-287.22	8.36	15.91
	C	1-2	-946.72	-1111.22	52.43	61.54
		2-3	-166.15	-230.87	9.20	12.78
		3-4	-502.43	-449.25	27.82	24.88
		4-5	-298.9	-297.82	16.55	16.49

Tabla 105. Solicitaciones extremas en los tímpanos longitudinales (PN-21 SR). Capacidad resistente del elemento 1805,8 kN. (Continuación).

		5-6	-475.82	-229.23	26.35	12.69
		6-7	-310.64	-516.33	17.20	28.59
		8-9	-87.34	-134.35	4.84	7.44
		9-10	-474.75	-413.04	26.29	22.87
		10-11	-362.83	-383.65	20.09	21.25
		11-12	-467.24	-338.42	25.87	18.74
		12-13	-61.2	-119.14	3.39	6.60
		13-14	-363.93	-521.88	20.15	28.90

ANEXO 4 RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 106. Solicitaciones en columnas asociadas a tímpanos longitudinales.

Elemento	Eje Long.	Eje Transv.	Estados	Localización	Combinación 1		Combinación 2	
					Axial (kN)	Cortante (kN)	Axial (kN)	Cortante (kN)
Segundo Piso								
1022	A	16	MAX					
				0	-308.5	68.7	-341.37	171.32
				3.3	-296.62	68.7	-329.49	171.32
1022			MIN					
				0	-1745.06	-57.25	-1712.19	-159.87
				3.3	-1733.18	-57.25	-1700.31	-159.87
1023	A	17	MAX					
				0	-680.29	62.04	-624.47	155.68
				3.3	-668.41	62.04	-612.59	155.68
1023			MIN					
				0	-1330.33	-50.78	-1386.15	-144.42
				3.3	-1318.45	-50.78	-1374.27	-144.42
1024	A	18	MAX					
				0	-469.89	57.21	-505.16	142
				3.3	-458.01	57.21	-493.28	142
1024			MIN					
				0	-1509.68	-45.88	-1474.41	-130.67
				3.3	-1497.8	-45.88	-1462.53	-130.67
1025	A	19	MAX					
				0	-800.06	50.82	-679.23	126.52
				3.3	-788.18	50.82	-667.35	126.52
1025			MIN					
				0	-1241.81	-39.56	-1362.64	-115.26
				3.3	-1229.93	-39.56	-1350.76	-115.26
10212	A	26	MAX					
				0	-987.82	16.51	-887.21	32.31
				3.3	-975.94	16.51	-875.33	32.31
10212			MIN					
				0	-1109.02	-5.27	-1209.63	-21.07
				3.3	-1097.14	-5.27	-1197.75	-21.07
10213	A	27	MAX					
				0	-231.16	15.96	-262.68	24.92
				3.3	-219.28	15.96	-250.8	24.92
10213			MIN					
				0	-1841.63	-4.61	-1810.11	-13.57
				3.3	-1829.75	-4.61	-1798.23	-13.57
10230	C	16	MAX					
				0	-474.3	56.33	-536.99	158.43
				3.3	-462.42	56.33	-525.11	158.43
10230			MIN					
				0	-1645.74	-67.06	-1583.05	-169.17
				3.3	-1633.86	-67.06	-1571.17	-169.17
10231	C	17	MAX					
				0	-841.58	50.61	-317.18	142.52

ANEXO 4. RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 106. Solicitaciones en columnas asociadas a tímpanos longitudinales. (Continuación).

				3.3	-829.7	50.61	-305.3	142.52
10231			MIN					
				0	-1472.28	-61.32	-1996.68	-153.23
				3.3	-1460.4	-61.32	-1984.8	-153.23
10232	C	18	MAX					
				0	-899.82	45.12	-697.87	129.29
				3.3	-887.94	45.12	-685.99	129.29
10232			MIN					
				0	-1411.98	-55.94	-1613.93	-140.12
				3.3	-1400.1	-55.94	-1602.05	-140.12
10233	C	19	MAX					
				0	-794.24	39.37	-287.23	113.54
				3.3	-782.36	39.37	-275.35	113.54
10233			MIN					
				0	-1558.53	-50.14	-2065.54	-124.3
				3.3	-1546.65	-50.14	-2053.66	-124.3
10234	C	20	MAX					
				0	-822.25	33.95	-437.47	100.16
				3.3	-810.37	33.95	-425.59	100.16
10234			MIN					
				0	-1472.33	-44.77	-1857.1	-110.98
				3.3	-1460.45	-44.77	-1845.22	-110.98
10235	C	21	MAX					
				0	-378.11	25.34	641.63	77.27
				3.3	-366.23	25.34	653.51	77.27
10235			MIN					
				0	-1673.63	-36.13	-2693.38	-88.06
				3.3	-1661.75	-36.13	-2681.5	-88.06
10236	C	22	MAX					
				0	-614.9	22.97	-541.54	71.23
				3.3	-603.02	22.97	-529.66	71.23
10236			MIN					
				0	-1365.24	-33.83	-1438.6	-82.09
				3.3	-1353.36	-33.83	-1426.72	-82.09
10237	C	23	MAX					
				0	-730.48	17.83	-618.49	57.55
				3.3	-718.6	17.83	-606.61	57.55
10237			MIN					
				0	-1266.48	-28.75	-1378.47	-68.48
				3.3	-1254.6	-28.75	-1366.59	-68.48
10238	C	24	MAX					
				0	-638.6	10.95	-39.47	38.89
				3.3	-626.72	10.95	-27.59	38.89
10238			MIN					
				0	-1383.54	-21.85	-1982.67	-49.79
				3.3	-1371.66	-21.85	-1970.79	-49.79

ANEXO 4 RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 106. Solicitaciones en columnas asociadas a tímpanos longitudinales. (Continuación).

10239	C	25	MAX					
				0	-756.05	8.02	-536.83	30.29
				3.3	-744.17	8.02	-524.95	30.29
10239			MIN					
				0	-1521.82	-18.88	-1741.05	-41.15
				3.3	-1509.94	-18.88	-1729.17	-41.15
10240	C	26	MAX					
				0	-860.3	4.9	-460.04	18.27
				3.3	-848.42	4.9	-448.16	18.27
10240			MIN					
				0	-1440.83	-15.71	-1841.09	-29.07
				3.3	-1428.95	-15.71	-1829.21	-29.07
10241	C	27	MAX					
				0	-388.5	2.86	-438.86	12.7
				3.3	-376.62	2.86	-426.98	12.7
10241			MIN					
				0	-1727.37	-13.71	-1677.01	-23.55
				3.3	-1715.49	-13.71	-1665.13	-23.55
Tercer Piso								
1032	A	16	MAX					
				0	-502.82	14.39	-375.29	27.11
				3.3	-490.94	14.39	-363.41	27.11
1032			MIN					
				0	-716.97	-2.49	-844.5	-15.21
				3.3	-705.09	-2.49	-832.62	-15.21
1033	A	17	MAX					
				0	-171.69	14.47	-77.11	26.69
				3.3	-159.81	14.47	-65.23	26.69
1033			MIN					
				0	-981.1	-3.11	-1075.68	-15.34
				3.3	-969.22	-3.11	-1063.8	-15.34
1034	A	18	MAX					
				0	-295.45	13.2	-147.38	25.03
				3.3	-283.57	13.2	-135.5	25.03
1034			MIN					
				0	-838.84	-1.62	-986.91	-13.45
				3.3	-826.96	-1.62	-975.03	-13.45
1035	A	19	MAX					
				0	-229.69	13.65	-145.14	25.11
				3.3	-217.81	13.65	-133.26	25.11
1035			MIN					
				0	-825.14	-2.25	-909.69	-13.7
				3.3	-813.26	-2.25	-897.81	-13.7
1036	A	20	MAX					
				0	-372.45	12.41	-366.15	22.37
				3.3	-360.57	12.41	-354.27	22.7

Tabla 106. Solicitaciones en columnas asociadas a tímpanos longitudinales. (Continuación).

1036			MIN					
				0	-661.15	-6.88E-01	-667.45	-10.65
				3.3	-649.27	-6.88E-01	-655.57	-10.65
1037	A	21	MAX					
				0	-216.74	16.81	-254.25	33.64
				3.3	-204.86	16.81	-242.37	33.64
1037			MIN					
				0	-840.97	-5.57	-803.46	-22.4
				3.3	-829.09	-5.57	-791.58	-22.4
1038	A	22	MAX					
				0	-233.52	12.12	-291.29	22.75
				3.3	-221.64	12.12	-279.41	22.75
1038			MIN					
				0	-826.13	-8.40E-01	-768.36	-11.47
				3.3	-814.25	-8.40E-01	-756.48	-11.47
1039	A	23	MAX					
				0	-411.37	11.69	-436.38	21.38
				3.3	-399.49	11.69	-424.5	21.38
1039			MIN					
				0	-628.87	-1.70E-02	-603.86	-9.7
				3.3	-616.99	-1.70E-02	-591.98	-9.7
10310	A	24	MAX					
				0	-491.31	14.1	-497.45	27.56
				3.3	-479.43	14.1	-485.57	27.56
10310			MIN					
				0	-566.83	-2.28	-560.69	-15.74
				3.3	-554.95	-2.28	-548.81	-15.74
10311	A	25	MAX					
				0	-511.84	12	-495.5	21.47
				3.3	-499.96	12	-483.62	21.47
10311			MIN					
				0	-553.75	-1.58E-01	-570.08	-9.63
				3.3	-541.87	-1.58E-01	-558.2	-9.63
10312	A	26	MAX					
				0	-142.78	13.12	-57.66	25.01
				3.3	-130.9	13.12	-45.78	25.01
10312			MIN					
				0	-950.04	-1.56	-1035.16	-13.46
				3.3	-938.16	-1.56	-1023.28	-13.46
10313	A	27	MAX					
				0	-477.88	13.86	-398.96	21.56
				3.3	-466	13.86	-387.08	21.56
10313			MIN					
				0	-756.98	-1.93	-835.89	-9.63
				3.3	-745.1	-1.93	-824.01	-9.63
10330	C	16	MAX					

ANEXO 4 RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 106. Solicitaciones en columnas asociadas a tímpanos longitudinales. (Continuación).

				0	-413.95	2.94	-148.02	12.54
				3.3	-402.07	2.94	-136.14	12.54
10330			MIN					
				0	-827.69	-13.99	-1093.62	-23.59
				3.3	-815.81	-13.99	-1081.74	-23.59
10331	C	17	MAX					
				0	-284.99	-9.44E-01	-235.75	6.69
				3.3	-273.11	-9.44E-01	-223.87	6.69
10331			MIN					
				0	-954.27	-10.04	-1003.51	-17.67
				3.3	-942.39	-10.04	-991.63	-17.67
10332	C	18	MAX					
				0	-356.39	1.29	-229.8	10.65
				3.3	-344.51	1.29	-217.92	10.65
10332			MIN					
				0	-931.18	-12.58	-1057.77	-21.94
				3.3	-919.3	-12.58	-1045.89	-21.94
10333	C	19	MAX					
				0	-336.76	-1.39	-234.58	5.61
				3.3	-324.88	-1.39	-222.7	5.61
10333			MIN					
				0	-926.43	-9.68	-1028.61	-16.68
				3.3	-914.55	-9.68	-1016.73	-16.68
10334	C	20	MAX					
				0	-290.24	4.21E-01	-73.12	8.9
				3.3	-278.36	4.21E-01	-61.24	8.9
10334			MIN					
				0	-983	-11.69	-1200.11	-20.16
				3.3	-971.12	-11.69	-1188.23	-20.16
10335	C	21	MAX					
				0	-187.69	-3	-31.11	-0.3121
				3.3	-175.81	-3	-19.23	-0.3121
10335			MIN					
				0	-1133.8	-7.74	-1290.39	-10.43
				3.3	-1121.92	-7.74	-1278.51	-10.43
10336	C	22	MAX					
				0	-435.45	1.97E-01	-336.05	7.55
				3.3	-423.57	1.97E-01	-324.17	7.55
10336			MIN					
				0	-894.07	-10.84	-993.46	-18.2
				3.3	-882.19	-10.84	-981.58	-18.2
10337	C	23	MAX					
				0	-581.12	-1.88E-01	-447.94	8.45
				3.3	-569.24	-1.88E-01	-436.06	8.45
10337			MIN					
				0	-777.4	-10.65	-910.57	-19.28

ANEXO 4. RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 106. Solicitaciones en columnas asociadas a tímpanos longitudinales. (Continuación).

				3.3	-765.52	-10.65	-898.69	-19.28
10338	C	24	MAX					
				0	-414.89	-2.88	-248.49	0.9713
				3.3	-403.01	-2.88	-236.61	0.9713
10338			MIN					
				0	-963.59	-8.1	-1129.99	-11.96
				3.3	-951.71	-8.1	-1118.11	-11.96
10339	C	25	MAX					
				0	-437.62	-5.52E-01	-366.14	7.61
				3.3	-425.74	-5.52E-01	-354.26	7.61
10339			MIN					
				0	-823.39	-10.7	-894.87	-18.86
				3.3	-811.51	-10.7	-882.99	-18.86
10340	C	26	MAX					
				0	-202.22	-1.39	-116.13	4.66
				3.3	-190.34	-1.39	-104.25	4.66
10340			MIN					
				0	-1029.36	-9.62	-1115.45	-15.67
				3.3	-1017.48	-9.62	-1103.57	-15.67
10341	C	27	MAX					
				0	-489.26	5.81E-01	-301.17	8.52
				3.3	-477.38	5.81E-01	-289.29	8.52
10341			MIN					
				0	-748.25	-11.65	-936.34	-19.58
				3.3	-736.37	-11.65	-924.46	-19.58
Cuarto Piso								
1042	A	16	MAX					
				0	-188.4	12.07	-163.84	18.81
				3.3	-176.52	12.07	-151.96	18.81
1042			MIN					
				0	-294.57	-2.93E-01	-319.13	-7.04
				3.3	-282.69	-2.93E-01	-307.25	-7.04
1043	A	17	MAX					
				0	106.38	11.39	104.53	20.7
				3.3	118.26	11.39	116.41	20.7
1043			MIN					
				0	-379.2	-4.41E-01	-377.36	-9.75
				3.3	-367.32	-4.41E-01	-365.48	-9.75
1044	A	18	MAX					
				0	59.41	10.14	70.4	16.61
				3.3	71.29	10.14	82.28	16.61
1044			MIN					
				0	-332.6	7.72E-01	-343.6	-5.69
				3.3	-320.72	7.72E-01	-331.72	-5.69
1045	A	19	MAX					
				0	-49.92	10.64	-28.21	19.09

Tabla 106. Solicitaciones en columnas asociadas a tímpanos longitudinales. (Continuación).

				3.3	-38.04	10.64	-16.33	19.09
1045			MIN					
				0	-215.25	-8.11E-02	-236.97	-8.53
				3.3	-203.37	-8.11E-02	-225.09	-8.53
1046	A	20	MAX					
				0	-85.47	9.39	-88.17	14.79
				3.3	-73.59	9.39	-76.29	14.79
1046			MIN					
				0	-172.16	1.5	-169.46	-3.9
				3.3	-160.28	1.5	-157.58	-3.9
1047	A	21	MAX					
				0	-77.73	14.14	-67.5	25.77
				3.3	-65.85	14.14	-55.62	25.77
1047			MIN					
				0	-176.6	-3.43	-186.84	-15.07
				3.3	-164.72	-3.43	-174.96	-15.07
1048	A	22	MAX					
				0	-83.93	10.21	-79.38	16.68
				3.3	-72.05	10.21	-67.5	16.68
1048			MIN					
				0	-171.32	4.83E-01	-175.86	-5.98
				3.3	-159.44	4.83E-01	-163.98	-5.98
1049	A	23	MAX					
				0	-89.86	8.81	-98.74	14.26
				3.3	-77.98	8.81	-86.86	14.26
1049			MIN					
				0	-169.91	2.07	-161.03	-3.39
				3.3	-158.03	2.07	-149.15	-3.39
10410	A	24	MAX					
				0	-118.64	11.04	-120.5	20.16
				3.3	-106.76	11.04	-108.62	20.16
10410			MIN					
				0	-145.78	2.37E-02	-143.92	-9.1
				3.3	-133.9	2.37E-02	-132.04	-9.1
10411	A	25	MAX					
				0	-130.34	9.09	-129.73	14.43
				3.3	-118.46	9.09	-117.85	14.43
10411			MIN					
				0	-137.29	1.96	-137.9	-3.38
				3.3	-125.41	1.96	-126.02	-3.38
10412	A	26	MAX					
				0	-17.27	11	2.57	18.91
				3.3	-5.39	11	14.45	18.91
10412			MIN					
				0	-256.31	4.24E-02	-276.15	-7.86
				3.3	-244.43	4.24E-02	-264.27	-7.86

Tabla 106. Solicitaciones en columnas asociadas a tímpanos longitudinales. (Continuación).

10413	A	27	MAX					
				0	-208.81	11.9	-176.75	15.31
				3.3	-196.93	11.9	-164.87	15.31
10413			MIN					
				0	-276.79	-6.84E-02	-308.85	-3.48
				3.3	-264.91	-6.84E-02	-296.97	-3.48
10429	C	15	MAX					
				0	-87.84	-5.33E-01	-119.11	3.61
				3.3	-75.96	-5.33E-01	-107.23	3.61
10429			MIN					
				0	-327.19	-6.25	-295.93	-10.39
				3.3	-315.31	-6.25	-284.05	-10.39
10430	C	16	MAX					
				0	-52.32	-8.71E-01	12.81	3.31
				3.3	-40.44	-8.71E-01	24.69	3.31
10430			MIN					
				0	-376.03	-10.28	-441.16	-14.46
				3.3	-364.15	-10.28	-429.28	-14.46
10431	C	17	MAX					
				0	-158.12	-4.44	-198.47	-2.93
				3.3	-146.24	-4.44	-186.59	-2.93
10431			MIN					
				0	-314.79	-6.47	-274.43	-7.97
				3.3	-302.91	-6.47	-262.55	-7.97
10432	C	18	MAX					
				0	-163.31	-2.39	-108.8	2.14
				3.3	-151.43	-2.39	-96.92	2.14
10432			MIN					
				0	-324.16	-8.97	-378.68	-13.5
				3.3	-312.28	-8.97	-366.8	-13.5
10433	C	19	MAX					
				0	-177.32	-4.51	-192.97	-3.19
				3.3	-165.44	-4.51	-181.09	-3.19
10433			MIN					
				0	-301.8	-6.54	-286.15	-7.85
				3.3	-289.92	-6.54	-274.27	-7.85
10434	C	20	MAX					
				0	-137.58	-3.09	-76.96	0.5235
				3.3	-125.7	-3.09	-65.08	0.5235
10434			MIN					
				0	-347.31	-8.2	-407.93	-11.81
				3.3	-335.43	-8.2	-396.05	-11.81
10435	C	21	MAX					
				0	-134.96	-1.96	-11.2	3.36
				3.3	-123.08	-1.96	0.6759	3.36
10435			MIN					

ANEXO 4. RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 106. Solicitaciones en columnas asociadas a tímpanos longitudinales. (Continuación).

				0	-365.63	-8.84	-489.39	-14 16
				3.3	-353.75	-8.84	-477.51	-14 16
10436	C	22	MAX					
				0	-180.66	-2.49	-90.49	-0.2973
				3.3	-168.78	-2.49	-78.61	-0.2973
10436			MIN					
				0	-315.45	-8.16	-405.62	-10.36
				3.3	-303.57	-8.16	-393.74	-10.36
10437	C	23	MAX					
				0	-141.09	-2.95	-125.63	1.24
				3.3	-129.21	-2.95	-113.75	1.24
10437			MIN					
				0	-348.6	-8.06	-364.05	-12.25
				3.3	-336.72	-8.06	-352.17	-12.25
10438	C	24	MAX					
				0	-171.74	-4.13	-99.39	-2.07
				3.3	-159.86	-4.13	-87.51	-2.07
10438			MIN					
				0	-319.39	-7.07	-391.75	-9.13
				3.3	-307.51	-7.07	-379.87	-9.13
10439	C	25	MAX					
				0	-184.42	-3.3	-160.8	0.2875
				3.3	-172.54	-3.3	-148.92	0.2875
10439			MIN					
				0	-298.16	-7.96	-321.79	-11.55
				3.3	-286.28	-7.96	-309.91	-11.55
10440	C	26	MAX					
				0	-138.27	-4.41	-157.3	-3.28
				3.3	-126.39	-4.41	-145.42	-3.28
10440			MIN					
				0	-331.72	-6.5	-312.69	-7.63
				3.3	-319.84	-6.5	-300.81	-7.63
10441	C	27	MAX					
				0	-86.47	-2.06	-36.49	0.9303
				3.3	-74.59	-2.06	-24.61	0.9303
10441			MIN					
				0	-339.7	-9.11	-389.67	-12.1
				3.3	-327.82	-9.11	-377.79	-12.1
10442	C	28	MAX					
				0	-80.28	-1.41	-67.07	1.32
				3.3	-68.4	-1.41	-55.19	1.32
10442			MIN					
				0	-335.8	-5.41	-349	-8.14
				3.3	-323.92	-5.41	-337.12	-8.14

ANEXO 4 RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 107. Solicitaciones en columnas asociadas a tímpanos transversales.

Elemento	Eje Long.	Eje Transv.	Estados	Localización	Combinación 1		Combinación 2	
					Axial (kN)	Cortante (kN)	Axial (kN)	Cortante (kN)
Segundo Piso								
10214	28	A	MAX					
				0	48.07	13.91	912.69	24.52
				3.3	59.95	13.91	924.57	24.52
10214			MIN					
				0	-1293.22	-7.35	-2157.84	-17.96
				3.3	-1281.34	-7.35	-2145.96	-17.96
10221	21	B	MAX					
				0	52.01	44.92	1835.77	120.7
				3.3	63.89	44.92	1847.65	120.7
10221			MIN					
				0	-2038.64	-44.74	-3822.41	-120.52
				3.3	-2026.76	-44.74	-3810.53	-120.52
10224	24	B	MAX					
				0	-389.34	24.27	564.3	65.23
				3.3	-377.46	24.27	576.18	65.23
10224			MIN					
				0	-1510.74	-24.05	-2464.38	-65.01
				3.3	-1498.86	-24.05	-2452.5	-65.01
10228	28	B	MAX					
				0	-609.64	14.37	-596.06	28.78
				3.3	-597.76	14.37	-584.18	28.78
10228			MIN					
				0	-726.82	-14.17	-740.4	-28.58
				3.3	-714.94	-14.17	-728.52	-28.58
10235	21	C	MAX					
				0	-378.11	25.34	641.63	77.27
				3.3	-366.23	25.34	653.51	77.27
10235			MIN					
				0	-1673.63	-36.13	-2693.38	-88.06
				3.3	-1661.75	-36.13	-2681.5	-88.06
10238	24	C	MAX					
				0	-638.6	10.95	-39.47	38.89
				3.3	-626.72	10.95	-27.59	38.89
10238			MIN					
				0	-1383.54	-21.85	-1982.67	-49.79
				3.3	-1371.66	-21.85	-1970.79	-49.79
10242	28	C	MAX					
				0	-73.49	7.52	553.28	18.39
				3.3	-61.61	7.52	565.16	18.39
10242			MIN					
				0	-1495.32	-13.78	-2122.09	-24.65
				3.3	-1483.44	-13.78	-2110.21	-24.65
Tercer Piso								
1031	15	A	MAX					

ANEXO 4 RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 107. Solicitaciones en columnas asociadas a tímpanos transversales. (Continuación).

				0	2.08	9.75	628.21	19.76
				3.3	13.96	9.75	640.09	19.76
1031			MIN					
				0	-770.3	-3.05	-1396.44	-13.06
				3.3	-758.42	-3.05	-1384.56	-13.06
10314	28	A	MAX					
				0	-99.62	7.99	353.17	15.43
				3.3	-87.74	7.99	365.05	15.43
10314			MIN					
				0	-669.92	-1.3	-1122.71	-8.73
				3.3	-658.04	-1.3	-1110.83	-8.73
10315	15	B	MAX					
				0	-362.47	8.95	-351.33	22.62
				3.3	-350.59	8.95	-339.45	22.62
10315			MIN					
				0	-464.88	-8.74	-476.03	-22.41
				3.3	-453	-8.74	-464.15	-22.41
10317	17	B	MAX					
				0	-351.21	9.02	108.48	22.72
				3.3	-339.33	9.02	120.36	22.72
10317			MIN					
				0	-912.34	-8.78	-1372.03	-22.47
				3.3	-900.46	-8.78	-1360.15	-22.47
10319	19	B	MAX					
				0	-387.86	8.17	30.81	20.9
				3.3	-375.98	8.17	42.69	20.9
10319			MIN					
				0	-884.32	-7.94	-1303	-20.67
				3.3	-872.44	-7.94	-1291.12	-20.67
10321	21	B	MAX					
				0	-505.21	7.66	-351.46	18.31
				3.3	-493.33	7.66	-339.58	18.31
10321			MIN					
				0	-749.21	-7.33	-902.96	-17.98
				3.3	-737.33	-7.33	-891.08	-17.98
10326	26	B	MAX					
				0	-390.47	7.88	-22.32	19.94
				3.3	-378.59	7.88	-10.44	19.94
10326			MIN					
				0	-872.01	-7.52	-1240.16	-19.58
				3.3	-860.13	-7.52	-1228.28	-19.58
10328	28	B	MAX					
				0	-372.62	6.67	-362.58	17.11
				3.3	-360.74	6.67	-350.7	17.11
10328			MIN					
				0	-456.59	-6.48	-466.63	-16.93