

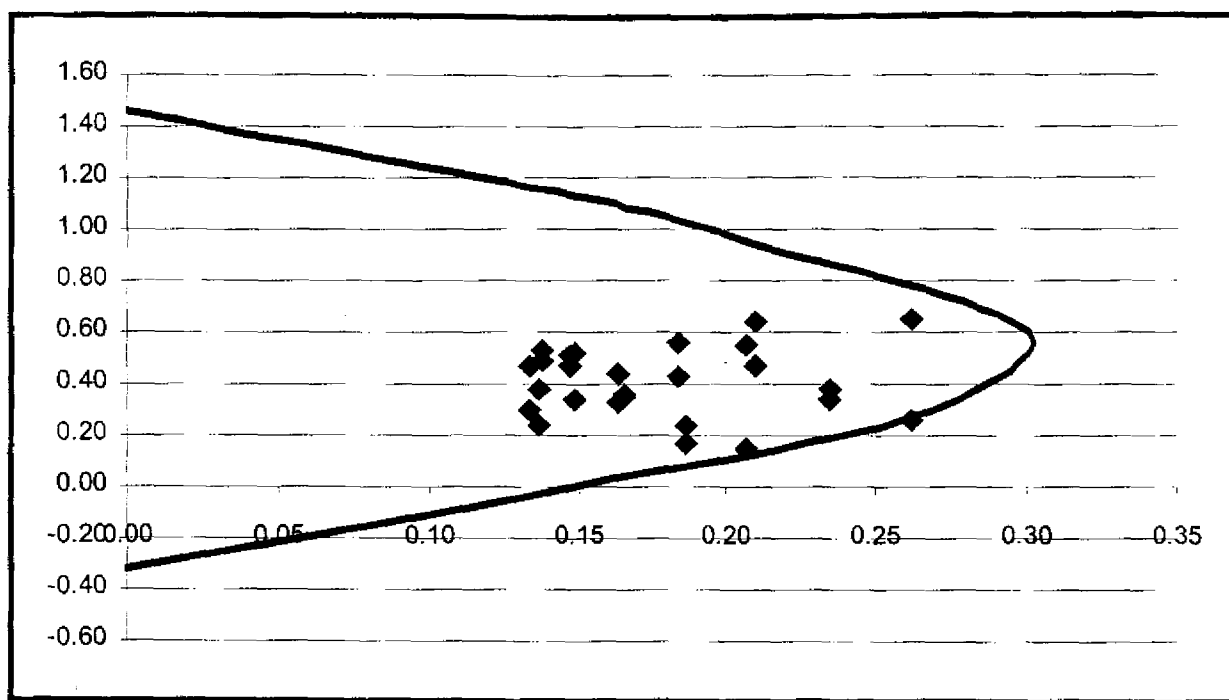


Figura 1. Diagrama de Interacción. Pedestal 60 x 60.

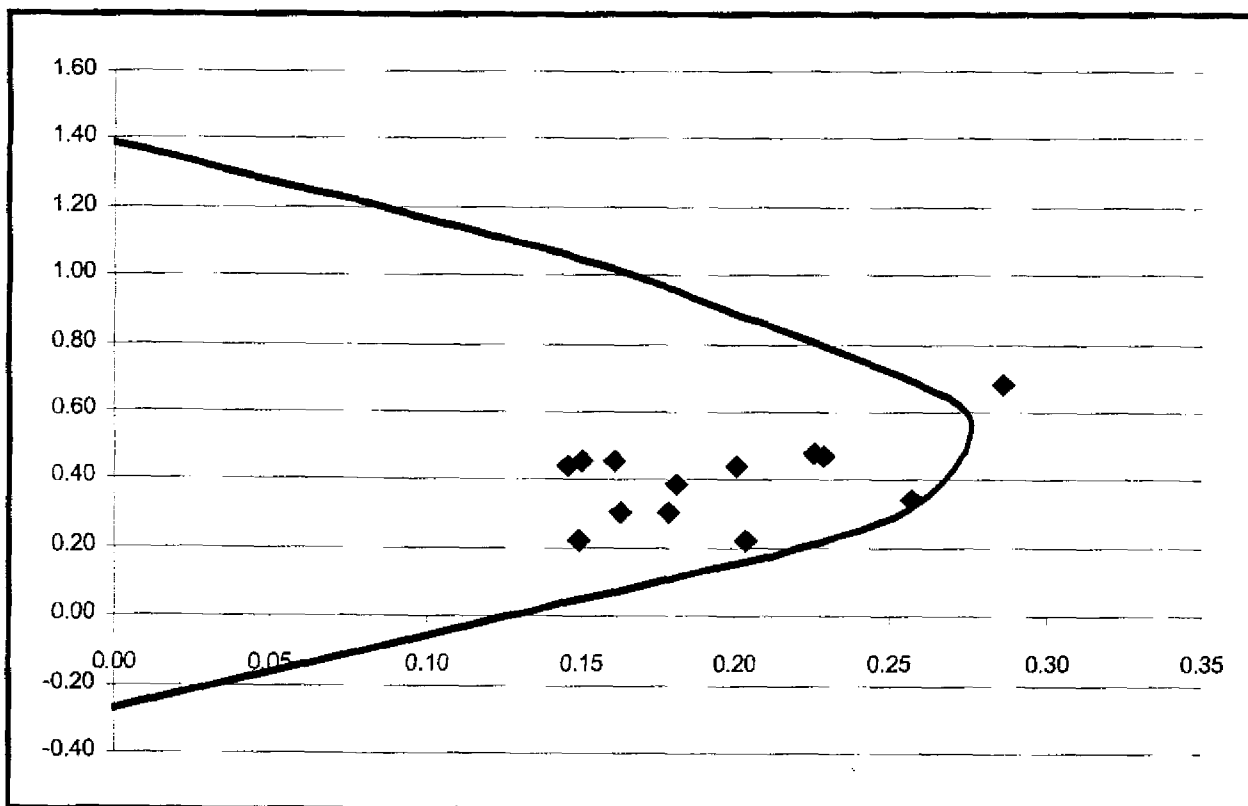


Figura 2. Diagrama de Interacción. Pedestal 70 x 60.

Tabla 18. Chequeo de la resistencia de las secciones de los pedestales de 60 x 35. Edificio 1. Bloque de Hospitalizados 1. Combinación CPCTCSX.

PEDESTAL	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
331	422.61	-1673.06	35.00	52.00	1.50	0.61	0.30
336	422.61	-861.75	35.00	52.00	1.50	0.32	0.30
341	422.61	-559.64	35.00	52.00	1.50	0.20	0.30

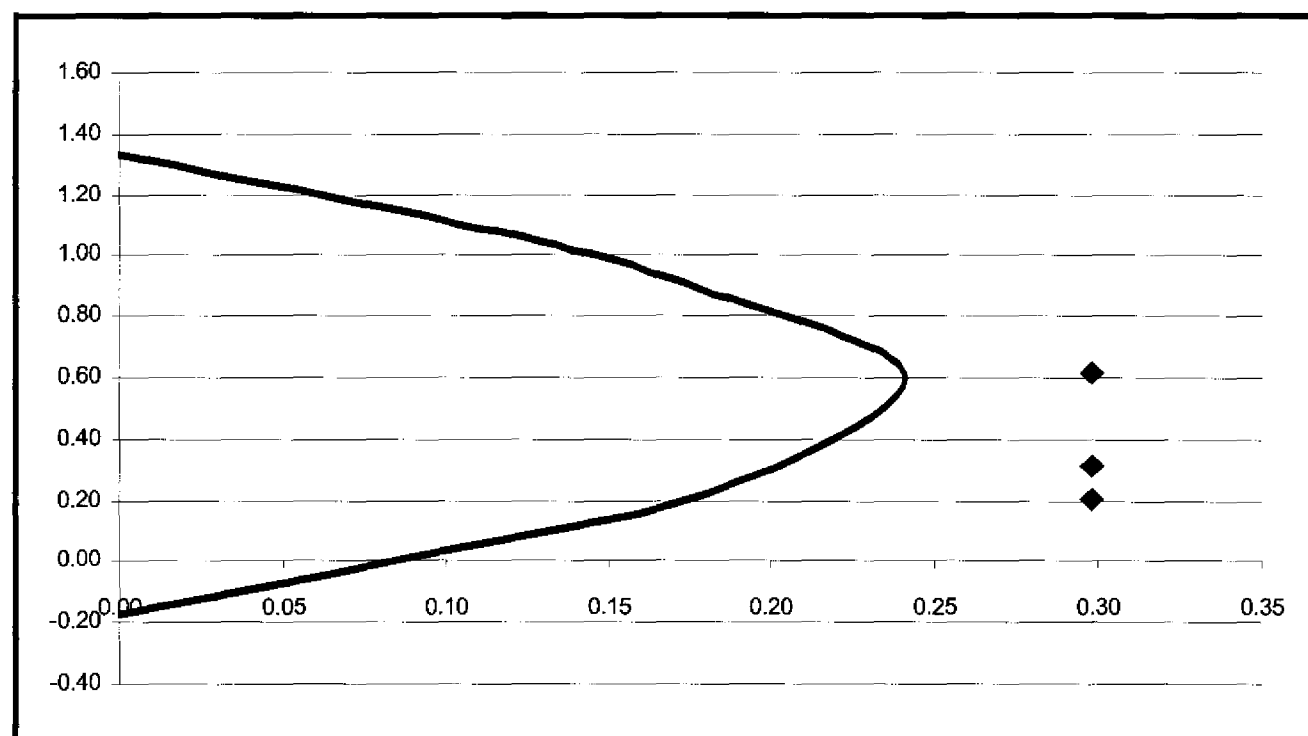


Figura 3. Diagrama de Interacción. Pedestal 60 x 35.

Tabla 19. Chequeo de la resistencia de las secciones de las columnas de 60 x 35. Edificio 1. Bloque de Hospitalizados 1. Combinación CPCTCSX.

COLUMNA	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
7	-107.15	-581.94	35.00	52.00	1.50	0.21	0.08
12	103.55	-2005.97	35.00	52.00	1.50	0.73	0.07
17	106.15	-2497.56	35.00	52.00	1.50	0.91	0.07
32	-130.92	-2159.12	35.00	52.00	1.50	0.79	0.09
37	132.21	-2201.04	35.00	52.00	1.50	0.81	0.09
42	131.92	-2107.35	35.00	52.00	1.50	0.77	0.09
57	-122.84	-2475.04	35.00	52.00	1.50	0.91	0.09
62	122.53	-983.98	35.00	52.00	1.50	0.36	0.09
67	125.64	-1596.16	35.00	52.00	1.50	0.58	0.09
82	-117.01	-1938.96	35.00	52.00	1.50	0.71	0.08
87	111.34	-1900.94	35.00	52.00	1.50	0.70	0.08
92	117.66	-655.03	35.00	52.00	1.50	0.24	0.08
107	-111.91	-2156.47	35.00	52.00	1.50	0.79	0.08
112	106.16	-979.26	35.00	52.00	1.50	0.36	0.07
117	116.78	-1318.32	35.00	52.00	1.50	0.48	0.08
132	-112.92	-1305.19	35.00	52.00	1.50	0.48	0.08
137	103.78	-1840.89	35.00	52.00	1.50	0.67	0.07
142	113.02	-2162.42	35.00	52.00	1.50	0.79	0.08
157	-115.66	-2392.89	35.00	52.00	1.50	0.88	0.08
162	107.76	-1900.58	35.00	52.00	1.50	0.70	0.08
167	115.51	-2168.72	35.00	52.00	1.50	0.79	0.08
182	-119.17	-2343.98	35.00	52.00	1.50	0.86	0.08
187	116.92	-990.47	35.00	52.00	1.50	0.36	0.08
192	122.97	-1268.08	35.00	52.00	1.50	0.46	0.09
207	-127.15	-1567.62	35.00	52.00	1.50	0.57	0.09
212	129.38	-1909.26	35.00	52.00	1.50	0.70	0.09
217	129.38	-1524.09	35.00	52.00	1.50	0.56	0.09
232	-134.72	-985.70	35.00	52.00	1.50	0.36	0.09
237	145.07	-987.75	35.00	52.00	1.50	0.36	0.10
242	140.53	-635.54	35.00	52.00	1.50	0.23	0.10
257	-145.79	-1828.22	35.00	52.00	1.50	0.67	0.10
262	159.55	-1837.83	35.00	52.00	1.50	0.67	0.11
267	146.41	-2727.92	35.00	52.00	1.50	1.00	0.10
282	-156.70	-1671.93	35.00	52.00	1.50	0.61	0.11
287	179.09	-1646.01	35.00	52.00	1.50	0.60	0.13
292	159.63	-1282.66	35.00	52.00	1.50	0.47	0.11
307	-169.92	-1094.98	35.00	52.00	1.50	0.40	0.12
312	192.37	-2865.92	35.00	52.00	1.50	1.05	0.14
317	165.81	-2935.26	35.00	52.00	1.50	1.08	0.12
332	-129.69	-1583.58	35.00	52.00	1.50	0.58	0.09
337	150.13	-685.64	35.00	52.00	1.50	0.25	0.11
342	132.98	-451.78	35.00	52.00	1.50	0.17	0.09

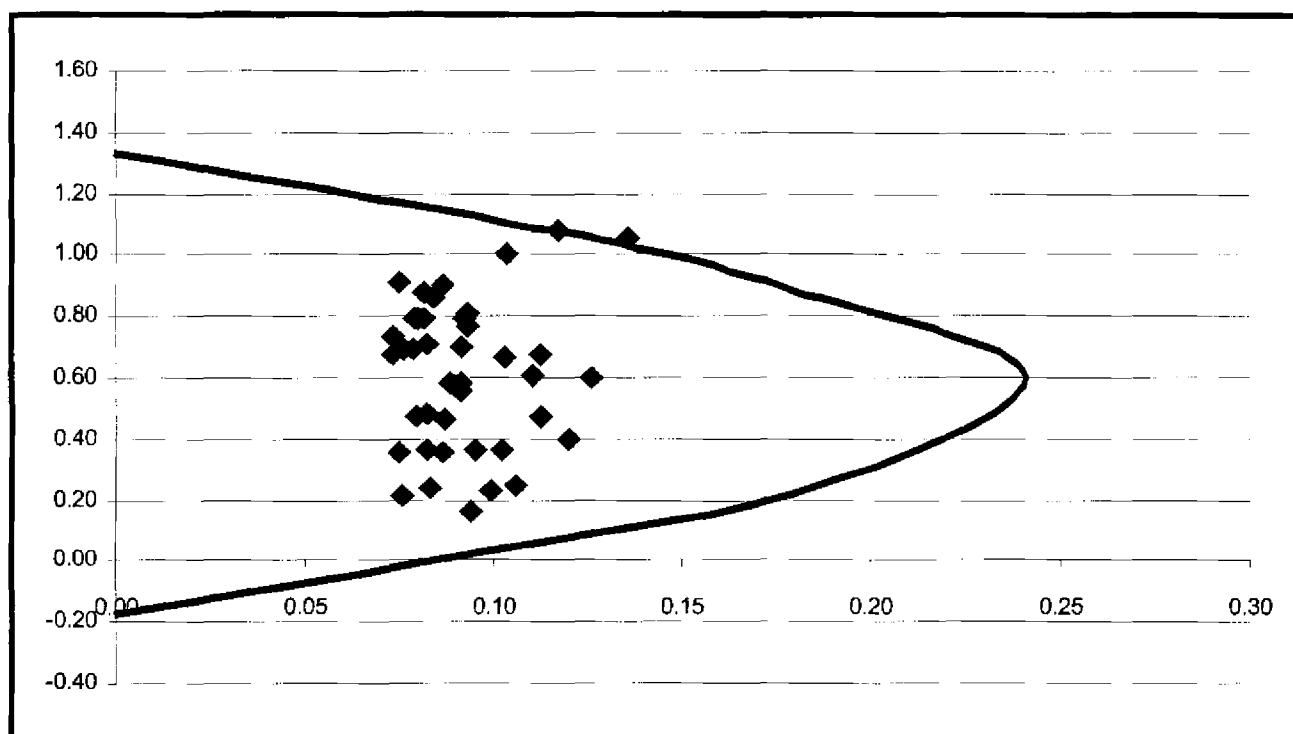


Figura 4. Diagrama de Interacción. Columna 60 x 35.

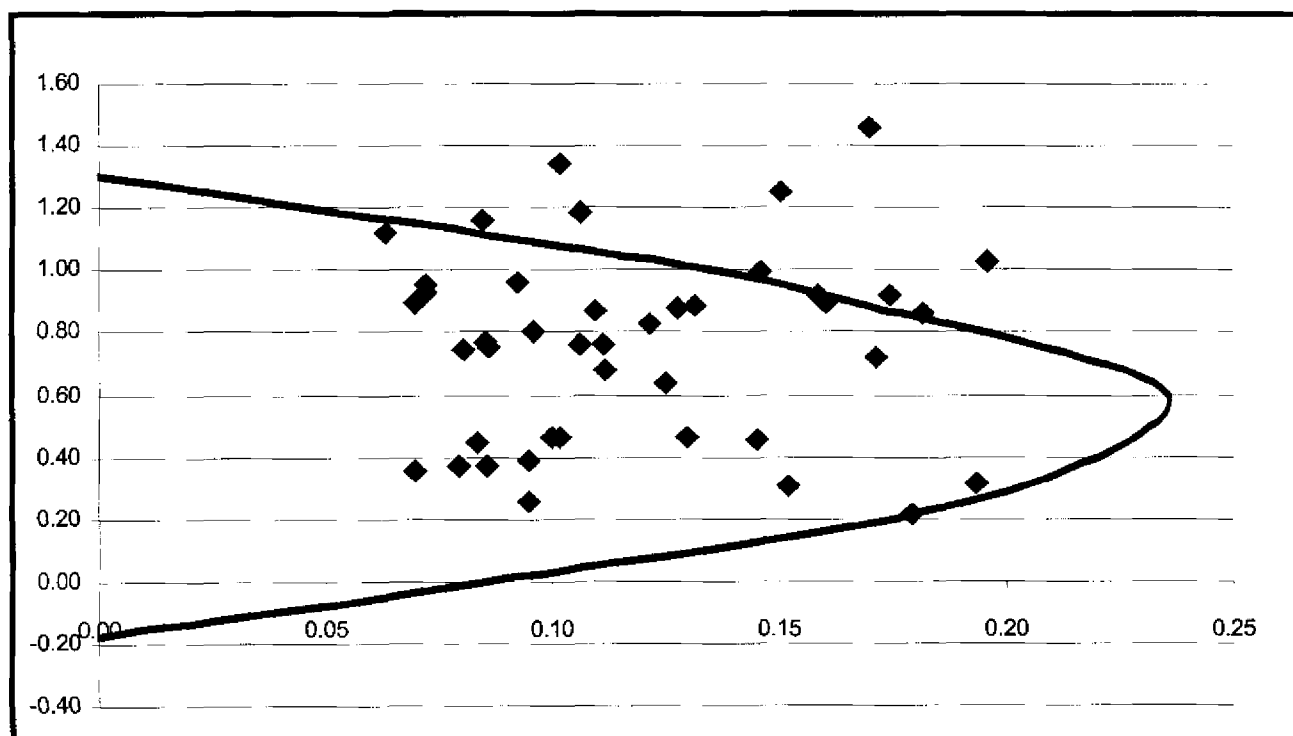


Figura 5. Diagrama de Interacción. Columna 40 x 30.

Tabla 20. Chequeo de la resistencia de las secciones de las columnas de 30 x 40. Edificio 1. Bloque de Hospitalizados 1. Combinación CPCTCSX.

COLUMNA	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
8	51.89	-403.55	30.00	35.50	1.50	0.25	0.09
13	60.78	-1215.98	30.00	35.50	1.50	0.76	0.11
18	-33.45	-1788.84	30.00	35.50	1.50	1.12	0.06
33	64.09	-1083.01	30.00	35.50	1.50	0.68	0.11
38	62.88	-1393.63	30.00	35.50	1.50	0.87	0.11
43	-47.64	-1847.76	30.00	35.50	1.50	1.16	0.08
58	62.51	-1888.38	30.00	35.50	1.50	1.18	0.11
63	60.25	-733.11	30.00	35.50	1.50	0.46	0.10
68	-50.53	-599.35	30.00	35.50	1.50	0.38	0.09
83	59.11	-1278.51	30.00	35.50	1.50	0.80	0.10
88	54.41	-1232.22	30.00	35.50	1.50	0.77	0.09
93	-43.90	-1517.34	30.00	35.50	1.50	0.95	0.07
108	58.33	-1529.43	30.00	35.50	1.50	0.96	0.09
113	55.16	-729.01	30.00	35.50	1.50	0.44	0.08
118	-49.78	-591.28	30.00	35.50	1.50	0.37	0.08
133	-59.71	-623.10	30.00	35.50	1.50	0.39	0.09
138	53.11	-1187.48	30.00	35.50	1.50	0.74	0.08
143	-43.16	-1430.99	30.00	35.50	1.50	0.90	0.07
158	64.21	-2148.18	30.00	35.50	1.50	1.34	0.10
163	55.34	-1207.06	30.00	35.50	1.50	0.76	0.09
168	-43.33	-1479.21	30.00	35.50	1.50	0.93	0.07
183	61.35	-1211.16	30.00	35.50	1.50	0.76	0.11
188	-61.15	-735.70	30.00	35.50	1.50	0.46	0.10
193	-41.92	-568.03	30.00	35.50	1.50	0.36	0.07
208	70.73	-1325.36	30.00	35.50	1.50	0.83	0.12
213	-72.44	-1019.73	30.00	35.50	1.50	0.64	0.13
218	72.74	-1405.96	30.00	35.50	1.50	0.88	0.13
233	76.62	-733.81	30.00	35.50	1.50	0.46	0.13
238	-80.83	-723.93	30.00	35.50	1.50	0.45	0.15
243	85.12	-489.13	30.00	35.50	1.50	0.31	0.15
258	80.29	-1582.41	30.00	35.50	1.50	0.99	0.15
263	-86.06	-1471.59	30.00	35.50	1.50	0.92	0.16
268	82.53	-1996.47	30.00	35.50	1.50	1.25	0.15
283	84.12	-1434.06	30.00	35.50	1.50	0.90	0.16
288	-95.02	-1328.60	30.00	35.50	1.50	0.87	0.18
293	91.62	-1086.65	30.00	35.50	1.50	0.72	0.17
308	90.91	-1462.48	30.00	35.50	1.50	0.92	0.17
313	-100.65	-1647.52	30.00	35.50	1.50	1.03	0.20
318	89.46	-2335.57	30.00	35.50	1.50	1.46	0.17
333	68.74	-1410.41	30.00	35.50	1.50	0.88	0.13
338	-98.60	-500.07	30.00	35.50	1.50	0.31	0.19
343	94.34	-340.55	30.00	35.50	1.50	0.21	0.18

Tabla 21. Chequeo de la resistencia de las secciones de los pedestales de 60 x 60. Edificio 1. Bloque de Hospitalizados 1. Combinación CPCTCSY.

PEDESTAL	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
6	-534.30	-691.20	60.00	52.73	1.50	0.15	0.21
16	-534.30	-2608.01	60.00	52.73	1.50	0.55	0.21
31	-485.96	-2642.09	60.00	52.73	1.50	0.56	0.19
41	-485.96	-2056.93	60.00	52.73	1.50	0.43	0.19
56	-444.80	-2069.20	60.00	52.73	1.50	0.44	0.18
66	-444.80	-1572.88	60.00	52.73	1.50	0.33	0.18
81	-413.04	-2410.93	60.00	52.73	1.50	0.51	0.17
91	-413.04	-2234.05	60.00	52.73	1.50	0.47	0.17
106	-393.11	-1800.87	60.00	52.73	1.50	0.38	0.16
116	-393.11	-1121.29	60.00	52.73	1.50	0.24	0.16
131	-387.05	-1441.15	60.00	52.73	1.50	0.30	0.15
141	-387.05	-2219.96	60.00	52.73	1.50	0.47	0.15
156	-395.60	-2524.74	60.00	52.73	1.50	0.53	0.16
166	-395.60	-2318.08	60.00	52.73	1.50	0.49	0.16
181	417.76	-2479.87	60.00	52.73	1.50	0.52	0.17
191	417.76	-1594.58	60.00	52.73	1.50	0.34	0.17
206	451.37	-1700.38	60.00	52.73	1.50	0.36	0.18
216	451.37	-1676.59	60.00	52.73	1.50	0.35	0.18
231	493.99	-1139.11	60.00	52.73	1.50	0.24	0.20
241	493.99	-790.64	60.00	52.73	1.50	0.17	0.20
256	543.45	-2233.05	60.00	52.73	1.50	0.47	0.22
266	543.45	-3051.30	60.00	52.73	1.50	0.64	0.22
281	598.05	-1807.78	60.00	52.73	1.50	0.38	0.24
291	598.05	-1634.93	60.00	52.73	1.50	0.34	0.24
306	656.52	-1246.98	60.00	52.73	1.50	0.26	0.26
316	656.52	-3098.65	60.00	52.73	1.50	0.65	0.26

Tabla 22. Chequeo de la resistencia de las secciones de los pedestales de 70 x 60. Edificio 1. Bloque de Hospitalizados 1. Combinación CPCTCSY.

PEDESTAL	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
11	-825.71	-2713.23	70.00	52.73	1.50	0.41	0.20
36	-751.01	-2472.72	70.00	52.73	1.50	0.38	0.18
61	-687.41	-1739.79	70.00	52.73	1.50	0.26	0.17
86	-638.33	-2574.41	70.00	52.73	1.50	0.39	0.15
111	-607.53	-1251.06	70.00	52.73	1.50	0.19	0.15
136	-598.16	-2498.72	70.00	52.73	1.50	0.38	0.14
161	611.36	-2573.26	70.00	52.73	1.50	0.39	0.15
186	645.61	-1725.75	70.00	52.73	1.50	0.26	0.16
211	697.56	-2180.74	70.00	52.73	1.50	0.33	0.17
236	763.42	-1259.27	70.00	52.73	1.50	0.19	0.18
261	839.86	-2657.03	70.00	52.73	1.50	0.40	0.20
286	924.24	-1917.07	70.00	52.73	1.50	0.29	0.22
311	1014.6	-3841.48	70.00	52.73	1.50	0.58	0.25

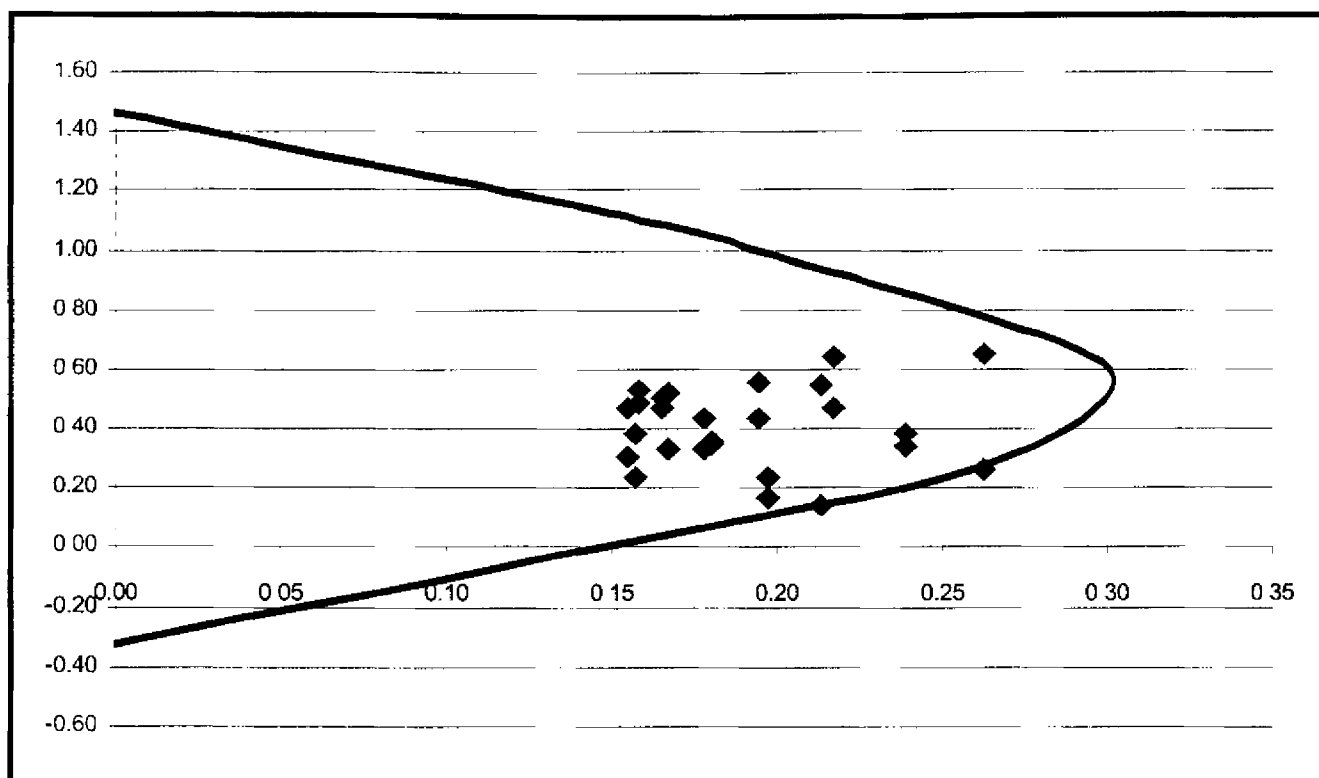


Figura 6. Diagrama de Interacción. Pedestal 60 x 60.

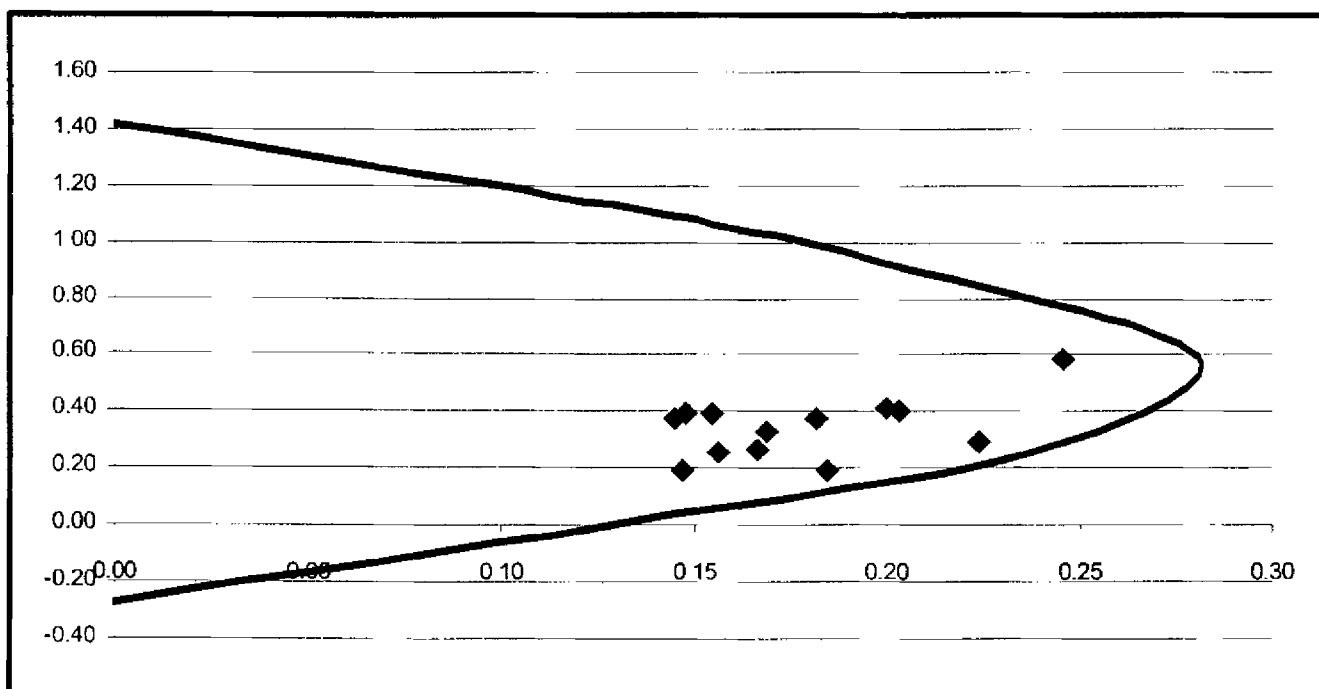


Figura 7. Diagrama de Interacción. Pedestal 70 x 60.

Tabla 23. Chequeo de la resistencia de las secciones de los pedestales de 60 x 35. Edificio 1. Bloque de Hospitalizados 1. Combinación CPCTCSY.

PEDESTAL	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
331	418.79	-1673.04	60.00	27.00	1.50	0.52	0.64
336	418.79	-861.8	60.00	27.00	1.50	1.39	0.65
341	418.79	-559.63	60.00	27.00	1.50	1.27	0.64

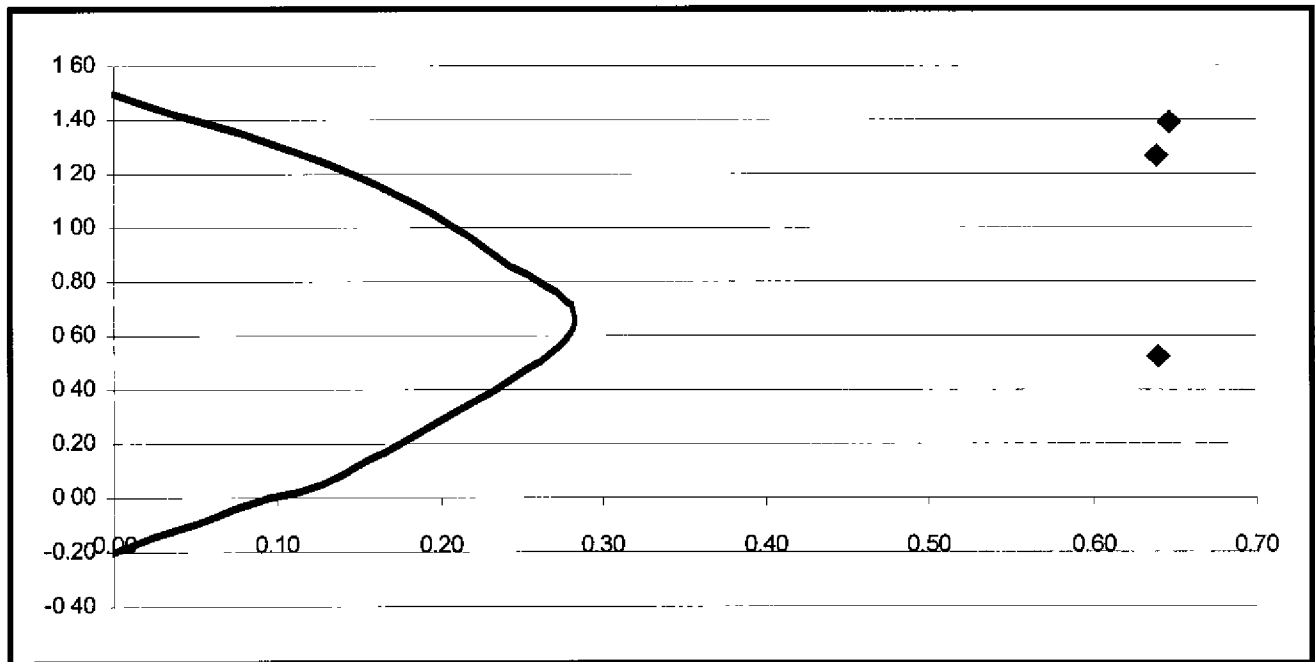


Figura 8. Diagrama de Interacción. Pedestal 60 x 35.

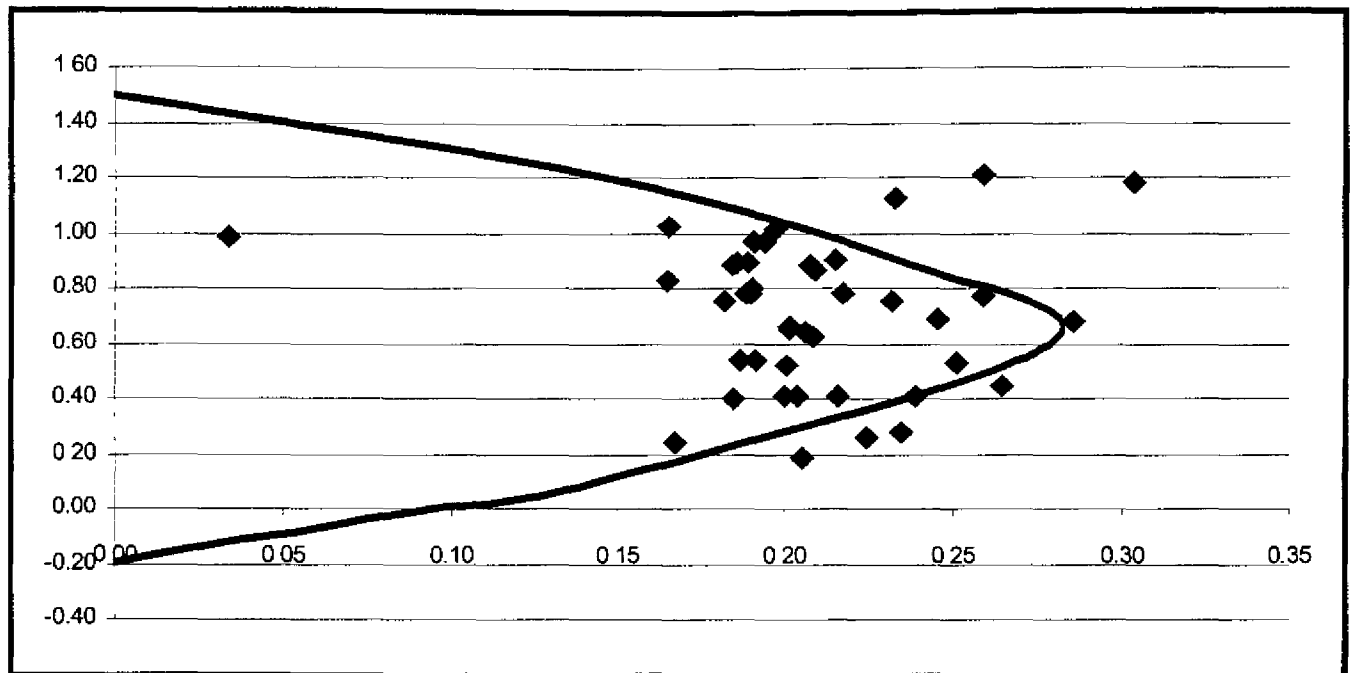


Figura 9. Diagrama de Interacción. Columna 60 x 35.

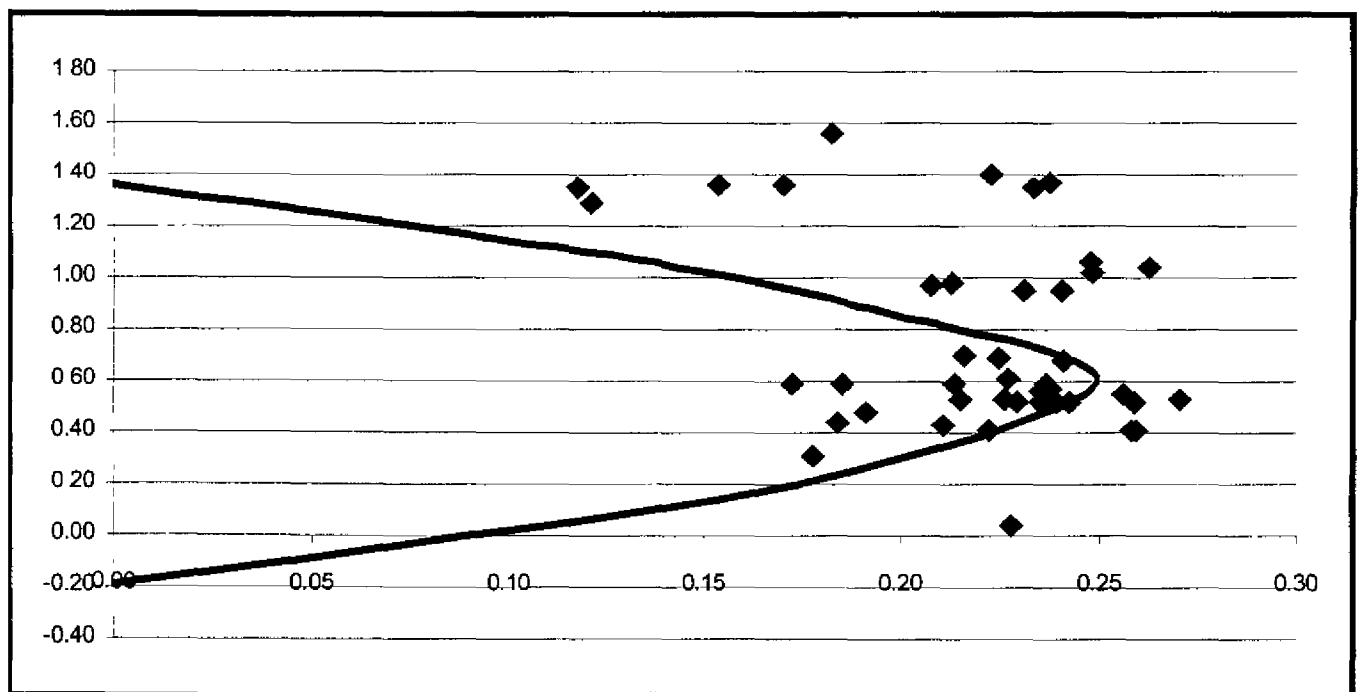


Figura 10. Diagrama de Interacción. Columna 40 x 30.

ANEXO 4. RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 24. Chequeo de la resistencia de las secciones de las columnas de 60 x 35. Edificio 1. Bloque de Hospitalizados 1. Combinación CPCTCSY.

COLUMNA	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
7	-109.53	-581.97	60.00	27.00	1.50	0.24	0.17
12	108.04	-2005.99	60.00	27.00	1.50	0.83	0.16
17	108.51	-2497.6	60.00	27.00	1.50	1.03	0.17
32	-136.4	-2158.67	60.00	27.00	1.50	0.89	0.21
37	141.04	-2201.05	60.00	27.00	1.50	0.91	0.21
42	137.09	-2107.52	60.00	27.00	1.50	0.87	0.21
57	-129.62	-2475.19	60.00	27.00	1.50	1.02	0.20
62	133.74	-983.86	60.00	27.00	1.50	0.40	0.20
67	132.16	-1596.19	60.00	27.00	1.50	0.66	0.20
82	-125.07	-1938.44	60.00	27.00	1.50	0.80	0.19
87	124.51	-1901.07	60.00	27.00	1.50	0.78	0.19
92	125.15	-2361.51	60.00	27.00	1.50	0.97	0.19
107	-121.02	-2156.71	60.00	27.00	1.50	0.89	0.18
112	121.28	-979.26	60.00	27.00	1.50	0.40	0.18
117	125.62	-1318.46	60.00	27.00	1.50	0.54	0.19
132	-122.52	-1305	60.00	27.00	1.50	0.54	0.19
137	119.41	-1841.13	60.00	27.00	1.50	0.76	0.18
142	121.85	-2162.54	60.00	27.00	1.50	0.89	0.19
157	22.1	-2392.84	60.00	27.00	1.50	0.98	0.03
162	123.56	-1900.8	60.00	27.00	1.50	0.78	0.19
167	124.09	-2168.88	60.00	27.00	1.50	0.89	0.19
182	127.28	-2343.82	60.00	27.00	1.50	0.96	0.19
187	131.27	-990.5	60.00	27.00	1.50	0.41	0.20
192	131.77	-1268.05	60.00	27.00	1.50	0.52	0.20
207	-135.39	-1567.54	60.00	27.00	1.50	0.65	0.21
212	142.71	-1909.55	60.00	27.00	1.50	0.79	0.22
217	136.94	-1524.21	60.00	27.00	1.50	0.63	0.21
232	-141.61	-985.51	60.00	27.00	1.50	0.41	0.22
237	156.75	-987.85	60.00	27.00	1.50	0.41	0.24
242	147.41	-635.58	60.00	27.00	1.50	0.26	0.22
257	-152.03	-1828.14	60.00	27.00	1.50	0.75	0.23
262	170.02	-1873.11	60.00	27.00	1.50	0.77	0.26
267	152.73	-2728.12	60.00	27.00	1.50	1.12	0.23
282	-161.12	-1671.45	60.00	27.00	1.50	0.69	0.25
287	187.23	-1646.02	60.00	27.00	1.50	0.68	0.29
292	164.85	-1282.67	60.00	27.00	1.50	0.53	0.25
307	-173.65	-1094.84	60.00	27.00	1.50	0.45	0.26
312	198.99	-2866.15	60.00	27.00	1.50	1.18	0.30
317	170.01	-2935.35	60.00	27.00	1.50	1.21	0.26
332	132.13	-1583.57	60.00	27.00	1.50	0.65	0.20
337	154.15	-685.7	60.00	27.00	1.50	0.28	0.23
342	134.85	-451.77	60.00	27.00	1.50	0.19	0.21

Tabla 25. Chequeo de la resistencia de las secciones de las columnas de 30 x 40. Edificio 1. Bloque de Hospitalizados 1. Combinación CPCTCSY.

COLUMNA	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
8	51.89	-403.55	40.00	25.50	1.50	0.31	0.18
13	60.78	-1215.98	40.00	25.50	1.50	0.95	0.24
18	-33.45	-1788.84	40.00	25.50	1.50	1.40	0.22
33	64.09	-1083.01	40.00	25.50	1.50	0.52	0.24
38	62.88	-1393.63	40.00	25.50	1.50	0.53	0.27
43	-47.64	-1847.76	40.00	25.50	1.50	0.52	0.26
58	62.51	-1888.38	40.00	25.50	1.50	0.68	0.24
63	60.25	-733.11	40.00	25.50	1.50	1.04	0.26
68	-50.53	-599.35	40.00	25.50	1.50	1.37	0.24
83	59.11	-1278.51	40.00	25.50	1.50	0.61	0.23
88	54.41	-1232.22	40.00	25.50	1.50	0.41	0.26
93	-43.90	-1517.34	40.00	25.50	1.50	0.55	0.26
108	58.33	-1529.43	40.00	25.50	1.50	0.52	0.23
113	55.16	-729.01	40.00	25.50	1.50	1.02	0.25
118	-49.78	-591.28	40.00	25.50	1.50	1.35	0.23
133	-59.71	-623.10	40.00	25.50	1.50	0.53	0.21
138	53.11	-1187.48	40.00	25.50	1.50	0.52	0.24
143	-43.16	-1430.99	40.00	25.50	1.50	0.57	0.24
158	64.21	-2148.18	40.00	25.50	1.50	0.70	0.22
163	55.34	-1207.06	40.00	25.50	1.50	0.98	0.21
168	-43.33	-1479.21	40.00	25.50	1.50	1.29	0.12
183	61.35	-1211.16	40.00	25.50	1.50	0.59	0.21
188	-61.15	-735.70	40.00	25.50	1.50	0.97	0.21
193	-41.92	-568.03	40.00	25.50	1.50	1.36	0.15
208	70.73	-1325.36	40.00	25.50	1.50	0.43	0.21
213	-72.44	-1019.73	40.00	25.50	1.50	0.41	0.22
218	72.74	-1405.96	40.00	25.50	1.50	0.59	0.17
233	76.62	-733.81	40.00	25.50	1.50	0.53	0.23
238	-80.83	-723.93	40.00	25.50	1.50	0.04	0.23
243	85.12	-489.13	40.00	25.50	1.50	1.36	0.17
258	80.29	-1582.41	40.00	25.50	1.50	0.69	0.22
263	-86.06	-1471.59	40.00	25.50	1.50	0.52	0.24
268	82.53	-1996.47	40.00	25.50	1.50	0.59	0.19
283	84.12	-1434.06	40.00	25.50	1.50	0.59	0.24
288	-95.02	-1328.60	40.00	25.50	1.50	1.06	0.25
293	91.62	-1086.65	40.00	25.50	1.50	1.56	0.18
308	90.91	-1462.48	40.00	25.50	1.50	0.56	0.24
313	-100.65	-1647.52	40.00	25.50	1.50	0.41	0.26
318	89.46	-2335.57	40.00	25.50	1.50	0.48	0.19
333	68.74	-1410.41	40.00	25.50	1.50	0.44	0.18
338	-98.60	-500.07	40.00	25.50	1.50	0.95	0.23
343	94.34	-340.55	40.00	25.50	1.50	1.35	0.12

Tabla 26. Chequeo de la resistencia de las secciones de los pedestales de 60 x 60. Edificio 2. Bloque de Hospitalizados 1. Combinación CPCTCSX.

PEDESTAL	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
6	-673.52	-1400.70	60.00	52.73	1.50	0.30	0.27
16	673.02	-2993.56	60.00	52.73	1.50	0.63	0.27
31	-618.98	-1445.35	60.00	52.73	1.50	0.30	0.25
41	619.69	-1932.13	60.00	52.73	1.50	0.41	0.25
56	-537.20	-1992.05	60.00	52.73	1.50	0.42	0.21
66	536.99	-2564.86	60.00	52.73	1.50	0.54	0.21
81	-454.59	-2095.04	60.00	52.73	1.50	0.44	0.18
91	457.06	-1113.03	60.00	52.73	1.50	0.23	0.18
106	-372.87	-1347.60	60.00	52.73	1.50	0.28	0.15
111	560.32	-2275.57	60.00	52.73	1.50	0.48	0.22
131	-291.58	-1285.81	60.00	52.73	1.50	0.27	0.12
141	294.99	-1068.11	60.00	52.73	1.50	0.23	0.12
156	-216.28	-2064.72	60.00	52.73	1.50	0.44	0.09
166	219.25	-1852.03	60.00	52.73	1.50	0.39	0.09
181	-226.61	-2953.62	60.00	52.73	1.50	0.62	0.09
191	229.70	-1966.07	60.00	52.73	1.50	0.41	0.09
206	-307.50	-1268.59	60.00	52.73	1.50	0.27	0.12
216	311.32	-1548.87	60.00	52.73	1.50	0.33	0.12
231	-393.00	-1317.61	60.00	52.73	1.50	0.28	0.16
241	395.85	-2206.16	60.00	52.73	1.50	0.46	0.16
256	-478.77	-1901.00	60.00	52.73	1.50	0.40	0.19
266	482.75	-1669.99	60.00	52.73	1.50	0.35	0.19
281	-564.85	-1923.84	60.00	52.73	1.50	0.41	0.23
291	568.32	-2416.43	60.00	52.73	1.50	0.51	0.23
306	-651.19	-1610.21	60.00	52.73	1.50	0.34	0.26
316	655.26	-2257.19	60.00	52.73	1.50	0.48	0.26

Tabla 27. Chequeo de la resistencia de las secciones de los pedestales de 70 x 60. Edificio 2. Bloque de Hospitalizados 1. Combinación CPCTCSX.

PEDESTAL	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
11	1028.35	-3470.85	60.00	62.73	1.50	0.61	0.29
36	944.99	-2136.95	60.00	62.73	1.50	0.38	0.27
61	816.46	-3264.79	60.00	62.73	1.50	0.58	0.23
86	689.16	-1342.97	60.00	62.73	1.50	0.24	0.19
111	560.32	-2275.57	60.00	62.73	1.50	0.40	0.16
136	433.99	-1304.09	60.00	62.73	1.50	0.23	0.12
161	314.97	-2169.10	60.00	62.73	1.50	0.38	0.09
186	328.02	-2056.08	60.00	62.73	1.50	0.36	0.09
211	455.31	-885.44	60.00	62.73	1.50	0.16	0.13
236	588.68	-2600.14	60.00	62.73	1.50	0.46	0.17
261	724.33	-1835.84	60.00	62.73	1.50	0.33	0.20
286	859.00	-2599.14	60.00	62.73	1.50	0.46	0.24
311	994.83	-2034.58	60.00	62.73	1.50	0.36	0.28

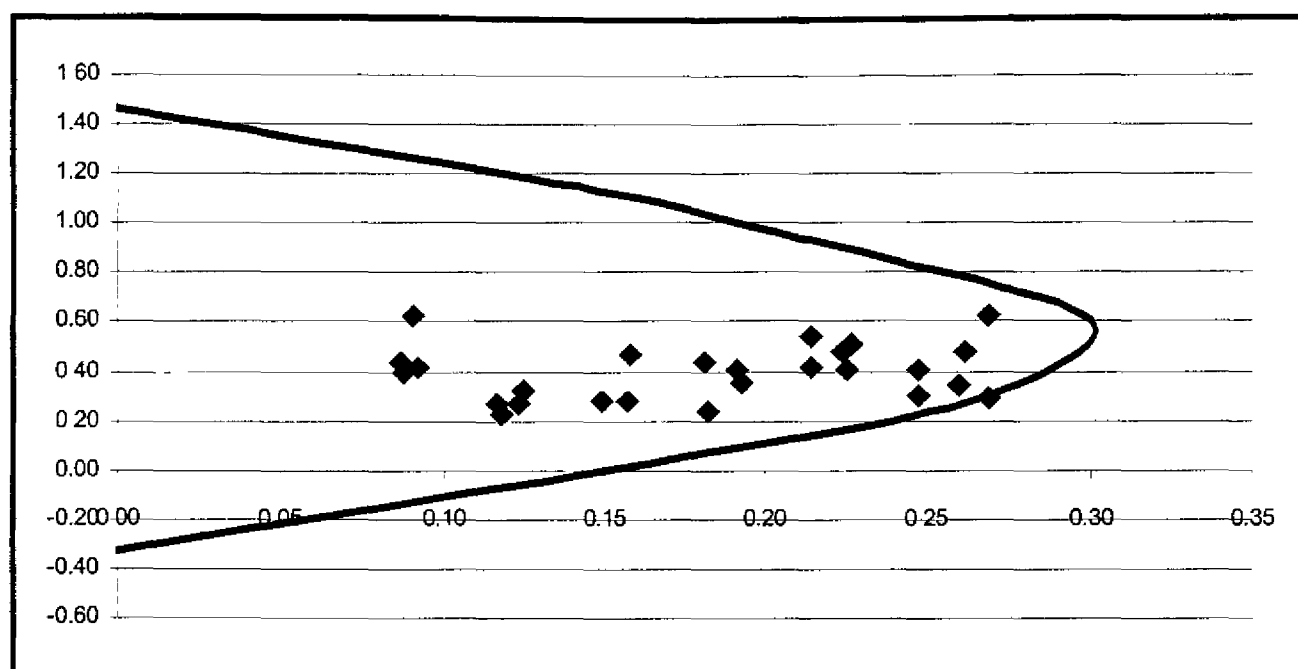


Figura 11. Diagrama de Interacción. Pedestal 60 x 60.

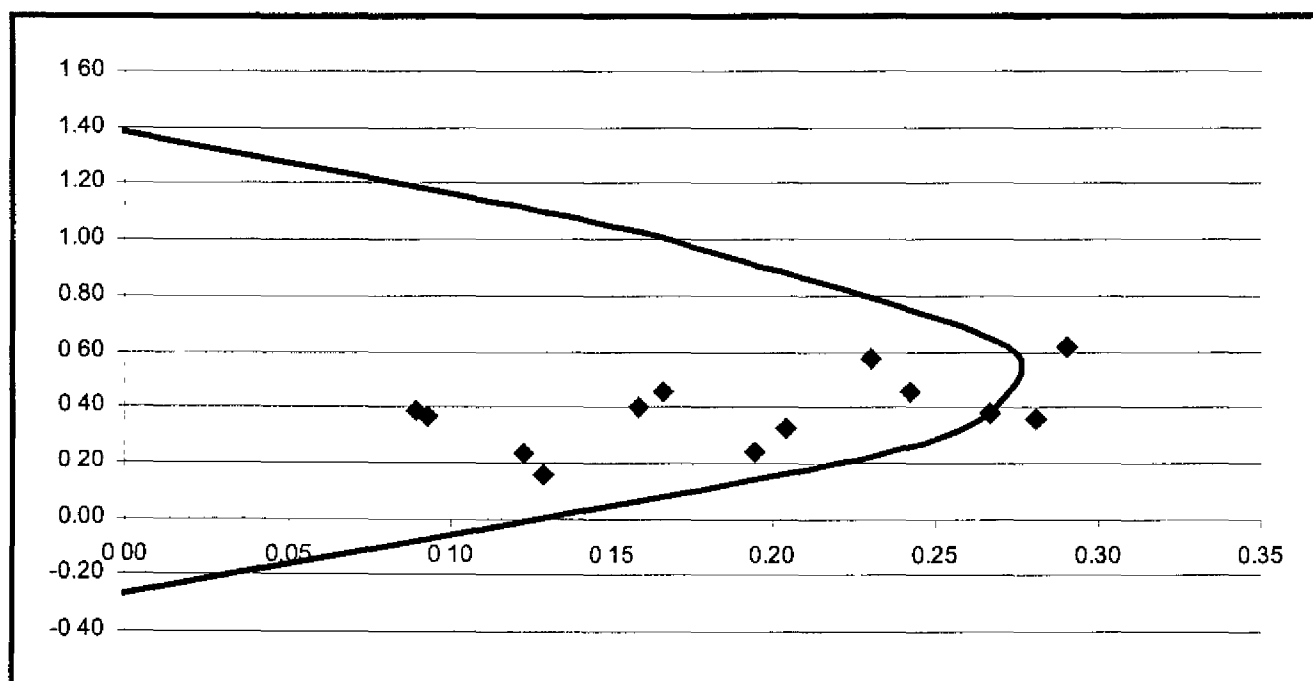


Figura 12. Diagrama de Interacción. Pedestal 70 x 60.

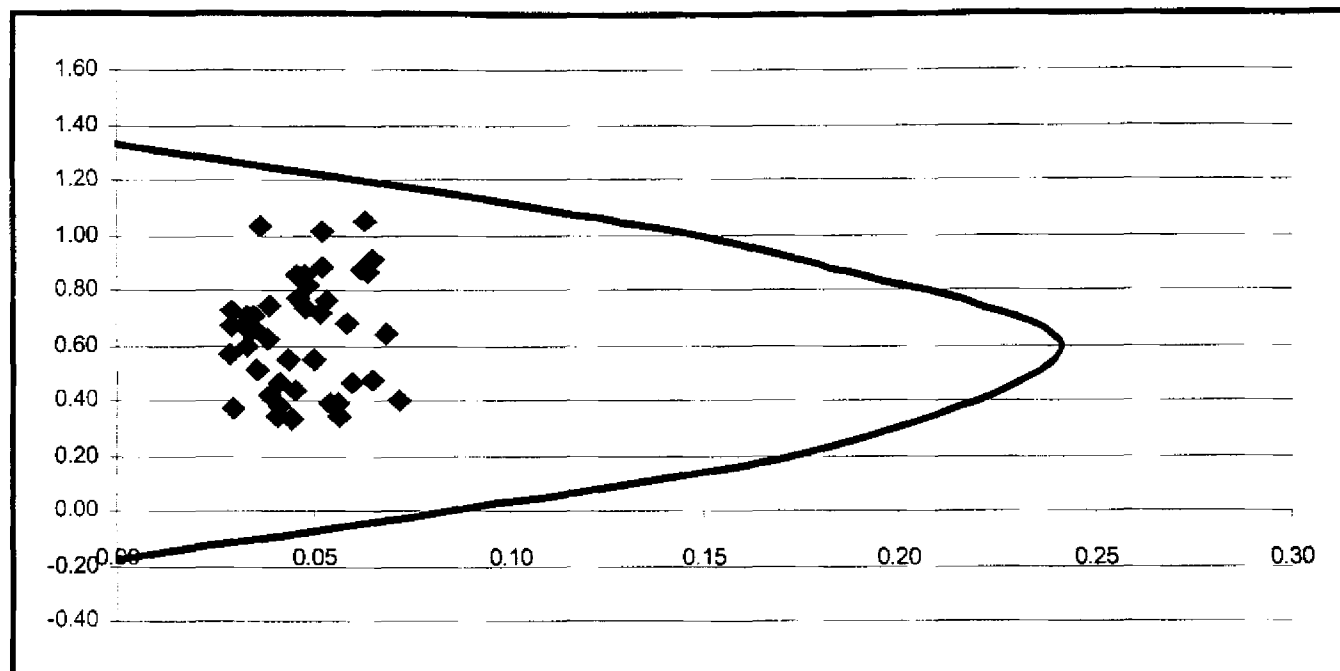


Figura 14. Diagrama de Interacción. Columna 60 x 35.

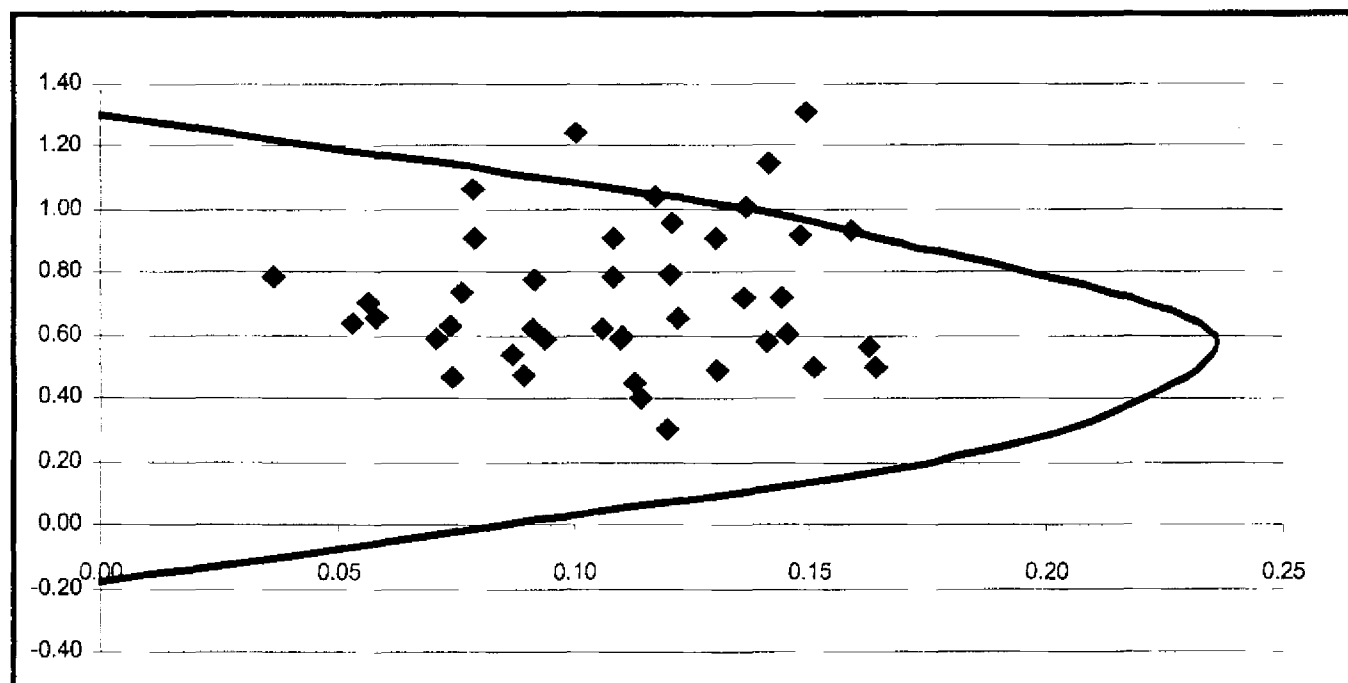


Figura 15. Diagrama de Interacción. Columna 40 x 30.

Tabla 29. Chequeo de la resistencia de las secciones de las columnas de 60 x 35. Edificio 2. Bloque de Hospitalizados 1. Combinación CPCTCSX.

COLUMNA	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_l	m_l
7	84.71	-1278.66	35.00	52.00	1.50	0.47	0.06
12	91.75	-2486.90	35.00	52.00	1.50	0.91	0.06
17	89.19	-2869.69	35.00	52.00	1.50	1.05	0.06
32	-91.80	-1301.20	35.00	52.00	1.50	0.48	0.06
37	101.37	-1094.35	35.00	52.00	1.50	0.40	0.07
42	97.17	-1751.43	35.00	52.00	1.50	0.64	0.07
57	-83.05	-1842.93	35.00	52.00	1.50	0.68	0.06
62	90.45	-2371.12	35.00	52.00	1.50	0.87	0.06
67	87.79	-2392.80	35.00	52.00	1.50	0.88	0.06
82	-72.98	-1956.84	35.00	52.00	1.50	0.72	0.05
87	79.69	-1070.86	35.00	52.00	1.50	0.39	0.06
92	80.19	-942.76	35.00	52.00	1.50	0.35	0.06
107	-64.14	-1186.93	35.00	52.00	1.50	0.43	0.05
112	68.42	-2008.88	35.00	52.00	1.50	0.74	0.05
117	70.96	-1506.98	35.00	52.00	1.50	0.55	0.05
132	-54.95	-1145.42	35.00	52.00	1.50	0.42	0.04
137	57.79	-932.19	35.00	52.00	1.50	0.34	0.04
142	63.07	-908.88	35.00	52.00	1.50	0.33	0.04
157	-46.89	-1928.64	35.00	52.00	1.50	0.71	0.03
162	47.28	-1622.98	35.00	52.00	1.50	0.59	0.03
167	54.75	-1701.24	35.00	52.00	1.50	0.62	0.04
182	-41.70	-1828.26	35.00	52.00	1.50	0.67	0.03
187	40.64	-1555.37	35.00	52.00	1.50	0.57	0.03
192	49.59	-1814.46	35.00	52.00	1.50	0.66	0.03
207	-41.21	-1991.79	35.00	52.00	1.50	0.73	0.03
212	42.15	-1011.65	35.00	52.00	1.50	0.37	0.03
217	50.59	-1390.18	35.00	52.00	1.50	0.51	0.04
232	-46.16	-1835.24	35.00	52.00	1.50	0.67	0.03
237	49.55	-1939.16	35.00	52.00	1.50	0.71	0.03
242	55.28	-2043.89	35.00	52.00	1.50	0.75	0.04
257	-51.75	-2820.69	35.00	52.00	1.50	1.03	0.04
262	58.64	-1042.68	35.00	52.00	1.50	0.38	0.04
267	62.16	-1503.69	35.00	52.00	1.50	0.55	0.04
282	-58.69	-1261.64	35.00	52.00	1.50	0.46	0.04
287	67.70	-2332.19	35.00	52.00	1.50	0.85	0.05
292	68.52	-2243.17	35.00	52.00	1.50	0.82	0.05
307	-64.87	-2328.73	35.00	52.00	1.50	0.85	0.05
312	76.71	-1069.76	35.00	52.00	1.50	0.39	0.05
317	75.59	-2076.91	35.00	52.00	1.50	0.76	0.05
332	-65.36	-2112.95	35.00	52.00	1.50	0.77	0.05
337	73.87	-2407.73	35.00	52.00	1.50	0.88	0.05
342	73.69	-2776.25	35.00	52.00	1.50	1.02	0.05

Tabla 30. Chequeo de la resistencia de las secciones de las columnas de 30 x 40. Edificio 2. Bloque de Hospitalizados 1. Combinación CPCTCSX.

COLUMNA	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
8	67.92	-486.22	30.00	35.50	1.50	0.30	0.12
13	-90.14	-1488.24	30.00	35.50	1.50	0.93	0.16
18	84.69	-2089.68	30.00	35.50	1.50	1.31	0.15
33	82.42	-963.05	30.00	35.50	1.50	0.60	0.15
38	-93.20	-804.56	30.00	35.50	1.50	0.50	0.16
43	92.34	-908.39	30.00	35.50	1.50	0.57	0.16
58	77.45	-1603.68	30.00	35.50	1.50	1.00	0.14
63	61.39	-1449.03	30.00	35.50	1.50	0.91	0.11
68	80.24	-1835.44	30.00	35.50	1.50	1.15	0.14
83	68.39	-1268.84	30.00	35.50	1.50	0.79	0.12
88	-73.92	-786.71	30.00	35.50	1.50	0.49	0.13
93	79.96	-931.76	30.00	35.50	1.50	0.58	0.14
108	62.29	-938.81	30.00	35.50	1.50	0.59	0.11
113	-61.33	-1252.64	30.00	35.50	1.50	0.78	0.11
118	68.58	-1534.47	30.00	35.50	1.50	0.96	0.12
133	51.69	-998.08	30.00	35.50	1.50	0.62	0.09
138	-50.47	-753.42	30.00	35.50	1.50	0.47	0.09
143	62.54	-957.88	30.00	35.50	1.50	0.60	0.11
158	44.37	-1695.15	30.00	35.50	1.50	1.06	0.08
163	-32.90	-1050.40	30.00	35.50	1.50	0.66	0.06
168	-20.69	-1252.81	30.00	35.50	1.50	0.78	0.04
183	42.96	-1172.01	30.00	35.50	1.50	0.73	0.08
188	30.07	-1019.40	30.00	35.50	1.50	0.64	0.05
193	-31.86	-1122.41	30.00	35.50	1.50	0.70	0.06
208	49.21	-866.68	30.00	35.50	1.50	0.54	0.09
213	41.80	-747.90	30.00	35.50	1.50	0.47	0.07
218	-40.02	-948.65	30.00	35.50	1.50	0.59	0.07
233	60.14	-990.65	30.00	35.50	1.50	0.62	0.11
238	51.75	-1237.67	30.00	35.50	1.50	0.77	0.09
243	-44.52	-1452.57	30.00	35.50	1.50	0.91	0.08
258	66.40	-1660.70	30.00	35.50	1.50	1.04	0.12
263	64.82	-637.26	30.00	35.50	1.50	0.40	0.11
268	-53.15	-946.10	30.00	35.50	1.50	0.59	0.09
283	77.11	-1157.03	30.00	35.50	1.50	0.72	0.14
288	73.73	-1449.77	30.00	35.50	1.50	0.91	0.13
293	-56.98	-1983.86	30.00	35.50	1.50	1.24	0.10
308	81.78	-1149.48	30.00	35.50	1.50	0.72	0.14
313	85.66	-794.45	30.00	35.50	1.50	0.50	0.15
318	-64.10	-714.11	30.00	35.50	1.50	0.45	0.11
333	69.30	-1045.42	30.00	35.50	1.50	0.65	0.12
338	83.85	-1460.02	30.00	35.50	1.50	0.91	0.15
343	-41.67	-1013.32	30.00	35.50	1.50	0.63	0.07

ANEXO 4. RESULTADO DEL ANALISIS DE LA VULNERABILIDAD ESTRUCTURAL

Tabla 31. Chequeo de la resistencia de las secciones de los pedestales de 60 x 60. Edificio 2. Bloque de Hospitalizados 1. Combinación CPCTCSY.

COLUMNA	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
6	-608.01	-1065.49	60.00	52.73	1.50	0.22	0.24
16	607.53	-3080.95	60.00	52.73	1.50	0.65	0.24
31	-616.50	-1300.37	60.00	52.73	1.50	0.27	0.25
41	617.01	-2096.11	60.00	52.73	1.50	0.44	0.25
56	-599.06	-1398.13	60.00	52.73	1.50	0.29	0.24
66	597.77	-3007.11	60.00	52.73	1.50	0.63	0.24
81	-579.46	-1561.39	60.00	52.73	1.50	0.33	0.23
91	582.06	-1266.56	60.00	52.73	1.50	0.27	0.23
106	-562.02	-1230.79	60.00	52.73	1.50	0.26	0.22
116	562.77	-2243.43	60.00	52.73	1.50	0.47	0.22
131	-543.25	-1264.09	60.00	52.73	1.50	0.27	0.22
141	546.53	-1319.75	60.00	52.73	1.50	0.28	0.22
156	-528.15	-1427.86	60.00	52.73	1.50	0.30	0.21
166	528.55	-3019.83	60.00	52.73	1.50	0.64	0.21
181	-537.52	-1901.35	60.00	52.73	1.50	0.40	0.21
191	538.29	-3117.80	60.00	52.73	1.50	0.66	0.22
206	-567.66	-1226.04	60.00	52.73	1.50	0.26	0.23
216	570.61	-2132.82	60.00	52.73	1.50	0.45	0.23
231	-600.40	-1292.85	60.00	52.73	1.50	0.27	0.24
241	601.60	-3074.99	60.00	52.73	1.50	0.65	0.24
256	-632.04	-1387.79	60.00	52.73	1.50	0.29	0.25
266	635.55	-2046.18	60.00	52.73	1.50	0.43	0.25
281	-664.64	-1517.68	60.00	52.73	1.50	0.32	0.27
291	667.29	-2828.00	60.00	52.73	1.50	0.60	0.27
306	-696.75	-1285.43	60.00	52.73	1.50	0.27	0.28
316	700.75	-2252.27	60.00	52.73	1.50	0.47	0.28

Tabla 32. Chequeo de la resistencia de las secciones de los pedestales de 70 x 60. Edificio 2. Bloque de Hospitalizados 1. Combinación CPCTCSY.

COLUMNA	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
11	933.71	-3564.08	70.00	52.73	1.50	0.64	0.32
36	948.58	-2250.98	70.00	52.73	1.50	0.41	0.32
61	919.74	-1091.57	70.00	52.73	1.50	0.20	0.32
86	891.65	-1379.59	70.00	52.73	1.50	0.25	0.31
111	862.10	-2908.68	70.00	52.73	1.50	0.53	0.30
136	834.11	-1353.51	70.00	52.73	1.50	0.24	0.29
161	807.21	-3432.23	70.00	52.73	1.50	0.62	0.28
186	820.62	-3376.22	70.00	52.73	1.50	0.61	0.28
211	869.04	-2033.59	70.00	52.73	1.50	0.37	0.30
236	918.34	-3518.66	70.00	52.73	1.50	0.64	0.31
261	962.32	-2098.05	70.00	52.73	1.50	0.38	0.33
286	1019.14	-2983.95	70.00	52.73	1.50	0.54	0.35
311	1069.69	-2150.71	70.00	52.73	1.50	0.39	0.37

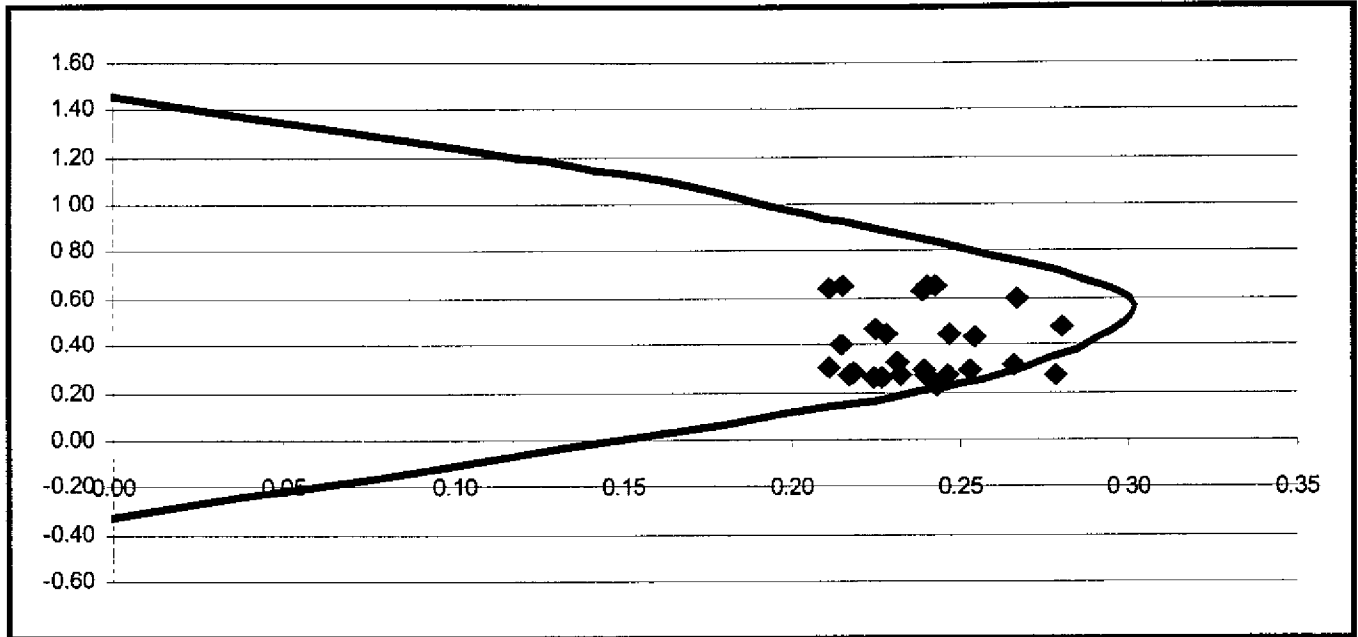


Figura 16. Diagrama de Interacción. Pedestal 60 x 60.

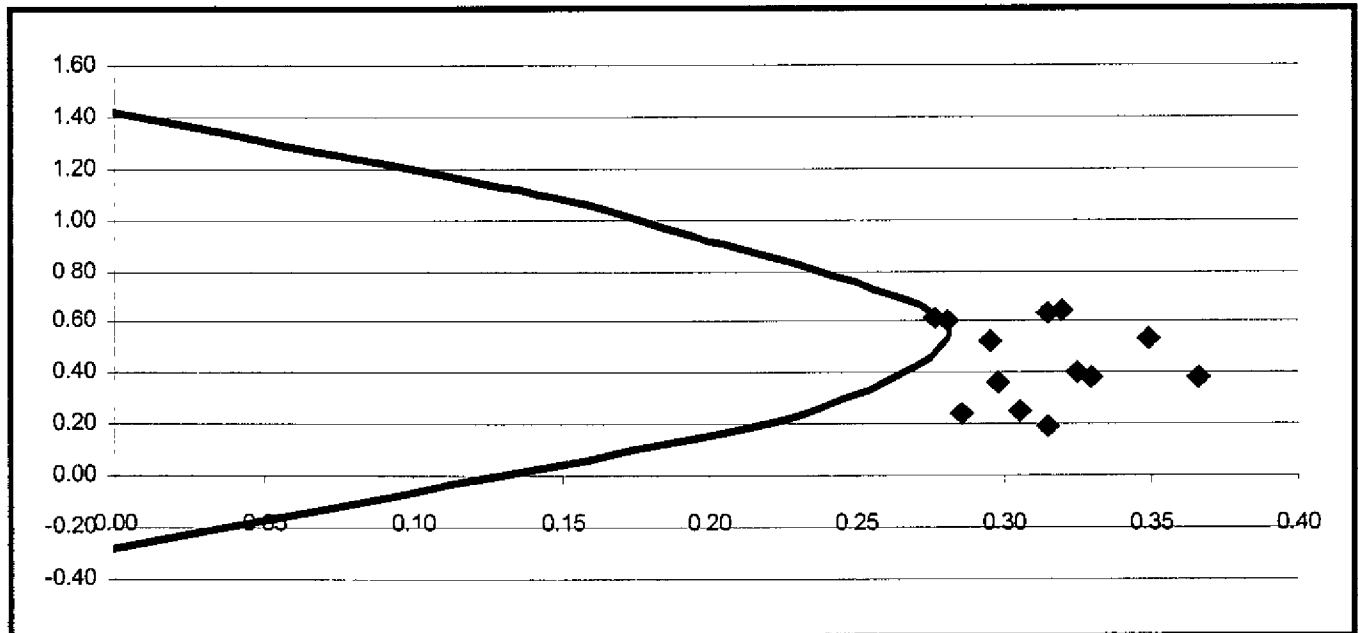


Figura 17. Diagrama de Interacción. Pedestal 70 x 60.

Tabla 33. Chequeo de la resistencia de las secciones de los pedestales de 60 x 35. Edificio 2. Bloque de Hospitalizados 1. Combinación CPCTCSY.

COLUMNA	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
331	419.95	-1268.64	60.00	27.00	1.50	0.52	0.64
336	424.36	-3370.27	60.00	27.00	1.50	1.39	0.65
341	418.89	-3086.68	60.00	27.00	1.50	1.27	0.64

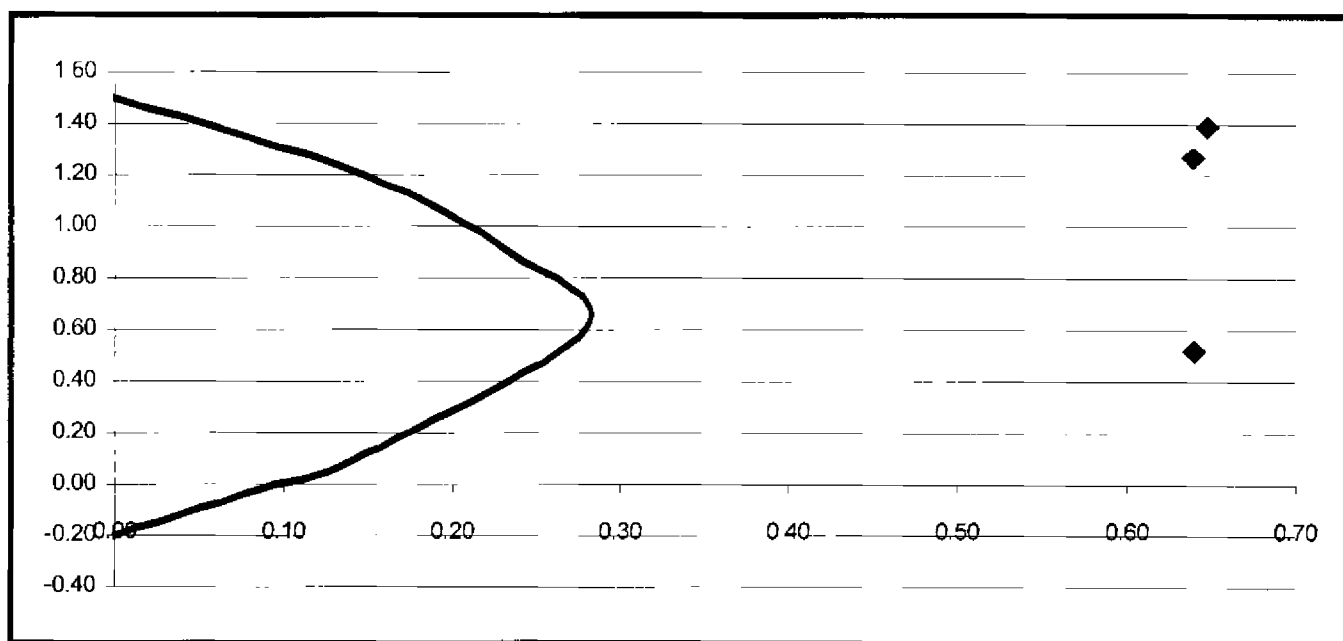


Figura 18. Diagrama de Interacción. Pedestal 60 x 35.

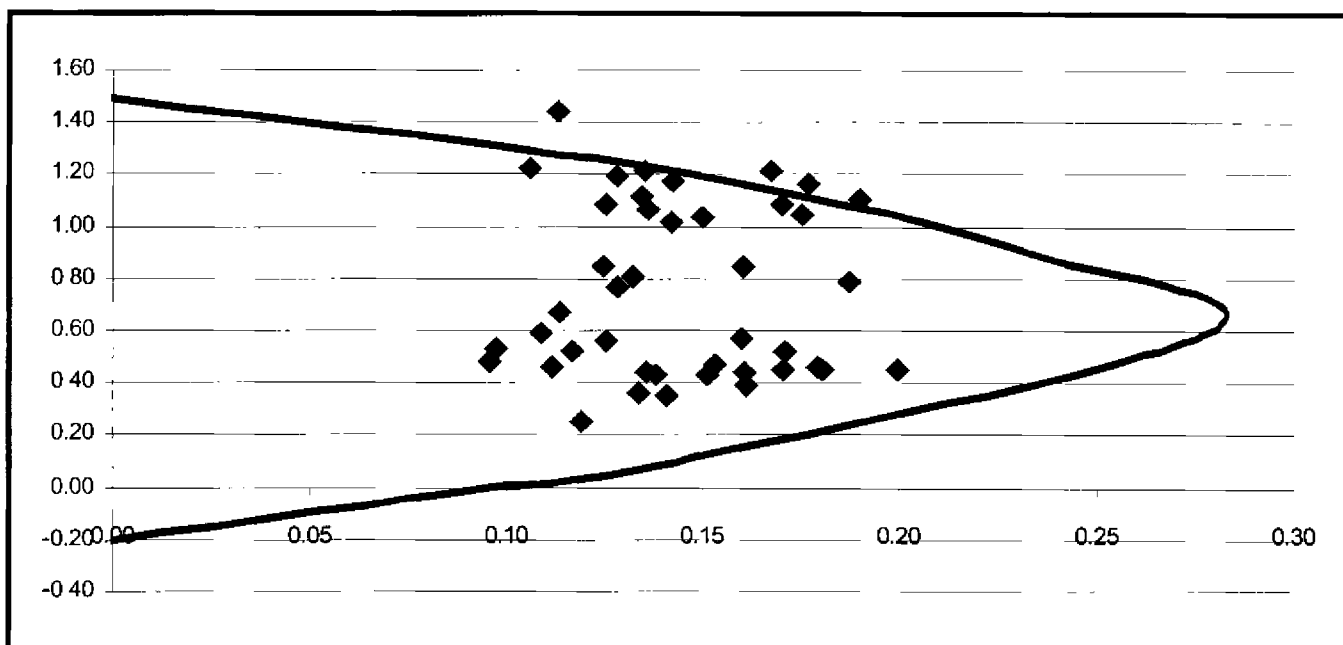


Figura 19. Diagrama de Interacción. Columna 60 x 35.

Tabla 34. Chequeo de la resistencia de las secciones de las columnas de 60 x 35. Edificio 2. Bloque de Hospitalizados 1. Combinación CPCTCSY.

COLUMNA	M*	N*	b (cm)	h (cm)	R'b* (KN/cm ²)	η_i	m_i
7	-105.69	-942.53	60.00	27.00	1.50	0.39	0.16
12	115.16	-2533.44	60.00	27.00	1.50	1.04	0.18
17	109.86	-2960.88	60.00	27.00	1.50	1.22	0.17
32	-117.76	-1130.49	60.00	27.00	1.50	0.47	0.18
37	131.06	-1102.93	60.00	27.00	1.50	0.45	0.20
42	122.84	-1913.66	60.00	27.00	1.50	0.79	0.19
57	-112.24	-1265.83	60.00	27.00	1.50	0.52	0.17
62	124.67	-2695.46	60.00	27.00	1.50	1.11	0.19
67	116.20	-2830.18	60.00	27.00	1.50	1.16	0.18
82	-104.91	-1394.38	60.00	27.00	1.50	0.57	0.16
87	118.51	-1106.23	60.00	27.00	1.50	0.46	0.18
92	112.01	-1086.40	60.00	27.00	1.50	0.45	0.17
107	-99.30	-1056.36	60.00	27.00	1.50	0.43	0.15
112	111.63	-2643.93	60.00	27.00	1.50	1.09	0.17
117	105.25	-2068.37	60.00	27.00	1.50	0.85	0.16
132	-92.51	-855.77	60.00	27.00	1.50	0.35	0.14
137	105.36	-1080.41	60.00	27.00	1.50	0.44	0.16
142	100.52	-1142.42	60.00	27.00	1.50	0.47	0.15
157	63.66	-1300.38	60.00	27.00	1.50	0.54	0.10
162	98.51	-2510.88	60.00	27.00	1.50	1.03	0.15
167	93.51	-2848.09	60.00	27.00	1.50	1.17	0.14
182	-82.22	-1359.09	60.00	27.00	1.50	0.56	0.13
187	93.16	-2474.27	60.00	27.00	1.50	1.02	0.14
192	88.77	-2944.58	60.00	27.00	1.50	1.21	0.14
207	-78.16	-604.54	60.00	27.00	1.50	0.25	0.12
212	90.63	-1055.74	60.00	27.00	1.50	0.43	0.14
217	86.75	-1955.74	60.00	27.00	1.50	0.80	0.13
232	-76.60	-1277.35	60.00	27.00	1.50	0.53	0.12
237	89.34	-2577.56	60.00	27.00	1.50	1.06	0.14
242	84.22	-2899.28	60.00	27.00	1.50	1.19	0.13
257	-74.36	-1631.05	60.00	27.00	1.50	0.67	0.11
262	89.04	-1074.30	60.00	27.00	1.50	0.44	0.14
267	83.97	-1866.48	60.00	27.00	1.50	0.77	0.13
282	-73.13	-1122.55	60.00	27.00	1.50	0.46	0.11
287	88.32	-2718.00	60.00	27.00	1.50	1.12	0.13
292	82.23	-2647.98	60.00	27.00	1.50	1.09	0.13
307	-71.25	-1442.27	60.00	27.00	1.50	0.59	0.11
312	87.73	-873.49	60.00	27.00	1.50	0.36	0.13
317	81.64	-2066.66	60.00	27.00	1.50	0.85	0.12
332	-62.65	-1177.40	60.00	27.00	1.50	0.48	0.10
337	74.22	-3493.23	60.00	27.00	1.50	1.44	0.11
342	69.55	-2973.00	60.00	27.00	1.50	1.22	0.11

Tabla 35. Chequeo de la resistencia de las secciones de las columnas de 30 x 40. Edificio 2. Bloque de Hospitalizados 1. Combinación CPCTCSY.

COLUMNA	M*	N*	b (cm)	h (cm)	R*b* (KN/cm ²)	η_i	m_i
8	69.33	-476.21	40.00	25.50	1.50	0.31	0.18
13	-93.89	-1459.14	40.00	25.50	1.50	0.95	0.24
18	86.90	-2138.15	40.00	25.50	1.50	1.40	0.22
33	91.83	-797.95	40.00	25.50	1.50	0.52	0.24
38	-105.47	-812.69	40.00	25.50	1.50	0.53	0.27
43	100.93	-793.99	40.00	25.50	1.50	0.52	0.26
58	94.01	-1036.05	40.00	25.50	1.50	0.68	0.24
63	-102.28	-1584.19	40.00	25.50	1.50	1.04	0.26
68	92.53	-2096.07	40.00	25.50	1.50	1.37	0.24
83	88.62	-932.65	40.00	25.50	1.50	0.61	0.23
88	-101.16	-624.99	40.00	25.50	1.50	0.41	0.26
93	99.90	-844.28	40.00	25.50	1.50	0.55	0.26
108	89.48	-799.85	40.00	25.50	1.50	0.52	0.23
113	-96.71	-1561.39	40.00	25.50	1.50	1.02	0.25
118	90.99	-2061.67	40.00	25.50	1.50	1.35	0.23
133	83.86	-816.63	40.00	25.50	1.50	0.53	0.21
138	-93.36	-793.81	40.00	25.50	1.50	0.52	0.24
143	92.76	-870.72	40.00	25.50	1.50	0.57	0.24
158	84.20	-1070.55	40.00	25.50	1.50	0.70	0.22
163	-83.02	-1504.28	40.00	25.50	1.50	0.98	0.21
168	-47.27	-1979.37	40.00	25.50	1.50	1.29	0.12
183	83.34	-906.92	40.00	25.50	1.50	0.59	0.21
188	80.98	-1488.12	40.00	25.50	1.50	0.97	0.21
193	-59.96	-2082.76	40.00	25.50	1.50	1.36	0.15
208	82.19	-663.74	40.00	25.50	1.50	0.43	0.21
213	86.66	-626.42	40.00	25.50	1.50	0.41	0.22
218	-67.42	-904.22	40.00	25.50	1.50	0.59	0.17
233	88.26	-817.60	40.00	25.50	1.50	0.53	0.23
238	88.92	-57.42	40.00	25.50	1.50	0.04	0.23
243	-66.46	-2079.74	40.00	25.50	1.50	1.36	0.17
258	87.62	-1061.33	40.00	25.50	1.50	0.69	0.22
263	94.60	-801.43	40.00	25.50	1.50	0.52	0.24
268	-72.28	-910.02	40.00	25.50	1.50	0.59	0.19
283	92.20	-5117.71	40.00	25.50	1.50	0.59	0.24
288	96.60	-1617.31	40.00	25.50	1.50	1.06	0.25
293	-71.25	-2386.25	40.00	25.50	1.50	1.56	0.18
308	91.80	-860.87	40.00	25.50	1.50	0.56	0.24
313	100.70	-630.82	40.00	25.50	1.50	0.41	0.26
318	-74.67	-731.57	40.00	25.50	1.50	0.48	0.19
333	71.80	-680.48	40.00	25.50	1.50	0.44	0.18
338	90.06	-1452.58	40.00	25.50	1.50	0.95	0.23
343	-45.79	-2070.40	40.00	25.50	1.50	1.35	0.12

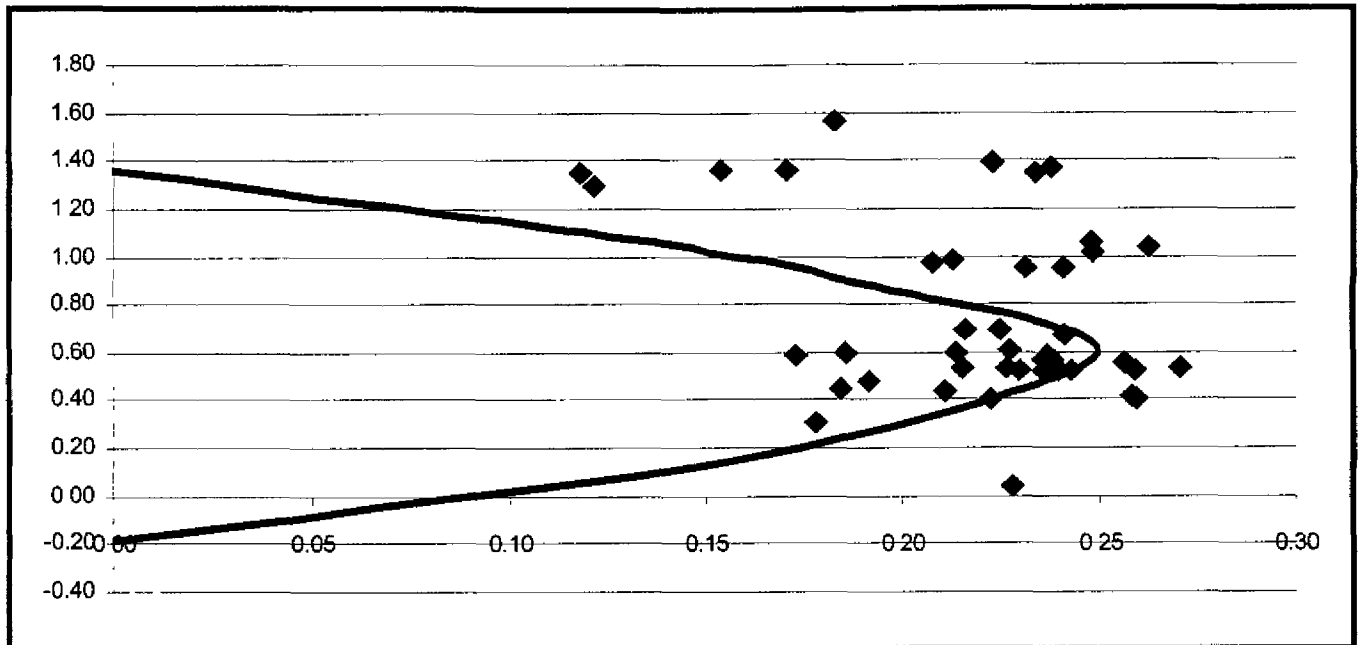


Figura 20. Diagrama de Interacción. Columna 40 x 30.

o **Bloque de Hospitalizados 2.****Tabla 36. Períodos de oscilación.**

Modo de oscilación	Edificio 1	Edificio 2
	T (seg)	T (seg)
1	0.2943	0.3101
2	0.2832	0.2774
3	0.2613	0.2199
4	0.1381	0.1381
5	0.1380	0.1380
6	0.1334	0.1336

Tabla 37. Chequeo de los desplazamientos. Bloque 1. Hospitalizados 2.

Desplazamiento tope permisible:		$\delta_{lim} = \frac{H}{600} = \frac{14.95}{600} = 0.0249$	
Desplazamiento relativo permisible:		$\Delta = 0.01 \frac{h}{Rd} = (0.01) \frac{3.3}{Rd} = 0.022$	
Dirección transversal:		Dirección longitudinal:	
Desplazamiento tope:	$\delta_{max} = 0.02737$	Desplazamiento tope:	$\delta_{max} = 0.01354$
$\delta_{max} < \delta_{lim}$		$\delta_{max} < \delta_{lim}$	
Desplazamiento máximo:	$\delta_{max} = 0.041$	Desplazamiento máximo:	$\delta_{max} = 0.020$
Desplazamientos relativos:		Desplazamientos relativos:	
$\Delta_{1.20} = 0.00312$	$\Delta_{6.60} = 0.00793$	$\Delta_{1.20} = 0.00198$	$\Delta_{6.60} = 0.00433$
$\Delta_{2.20} = 0.00706$	$\Delta_{2.20} = 0.00716$	$\Delta_{2.20} = 0.00311$	$\Delta_{2.20} = 0.00280$
$\Delta i \pi \Delta$	$\Delta_{0.00} = 0.00210$	$\Delta i \pi \Delta$	$\Delta_{0.00} = 0.00132$

Tabla 38. Chequeo de los desplazamientos. Bloque 2. Hospitalizados 2.

Dirección transversal:		Dirección longitudinal:	
Desplazamiento tope:	$\delta_{max} = 0.03343$	Desplazamiento tope:	$\delta_{max} = 0.01102$
$\delta_{max} < \delta_{lim}$		$\delta_{max} < \delta_{lim}$	
Desplazamiento máximo:	$\delta_{max} = 0.050$	Desplazamiento máximo:	$\delta_{max} = 0.016$
Desplazamientos relativos:		Desplazamientos relativos:	
$\Delta_{1.20} = 0.00521$	$\Delta_{6.60} = 0.00825$	$\Delta_{1.20} = 0.00199$	$\Delta_{6.60} = 0.00350$
$\Delta_{2.20} = 0.00770$	$\Delta_{2.20} = 0.00967$	$\Delta_{2.20} = 0.00279$	$\Delta_{2.20} = 0.00116$
$\Delta i \pi \Delta$	$\Delta_{0.00} = 0.00260$	$\Delta i \pi \Delta$	$\Delta_{0.00} = 0.00158$