



UNIVERSIDAD
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DE COLOMBIA

ANEXOS

Estudio comparativo de pórticos resistentes a momentos empleando el método de análisis estático no lineal de plastificación progresiva para el cálculo simplificado del coeficiente R

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Facultad de Minas, Departamento de Ingeniería Civil
Medellín, Colombia

2021

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Trabajo de investigación presentado como requisito parcial para optar al título de:
Magister en Ingeniería - Estructuras

Director:
Ms. C Yosef Farbiarz Farbiarz

Línea de Investigación:
Ingeniería Sísmica – Diseño Estructural

Grupo de Investigación:
Centro de Proyectos e Investigaciones Sísmicas CPIS

Universidad Nacional de Colombia
Facultad de Minas, Departamento de Ingeniería Civil
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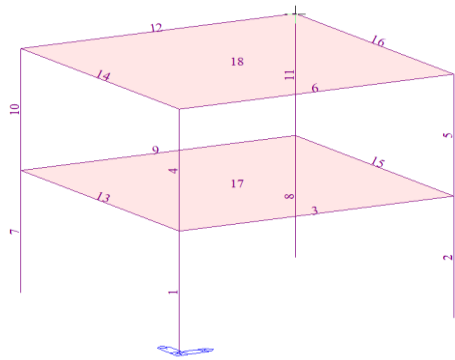
Largo de losa [m]	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Área de losa [m ²]	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
Espesor de losa [m]	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Volumen total de losa [m ³]	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
Peso de losa [kN/m ²]	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Peso propio total del modelo [kN/m ²]	4.35	5.09	5.60	6.45	7.36	7.36	7.36	7.36
Carga iluminación [kN/m ²]	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Carga acabados, fachada y refinado de piso [kN/m ²]	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
Carga particiones [kN/m ²]	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Carga muerta del modelo [kN/m²]	9.35	10.09	10.60	11.45	12.36	12.36	12.36	12.36
Carga viva del modelo [kN/m²]	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80

A-2. Definición de tamaño de secciones en columnas.

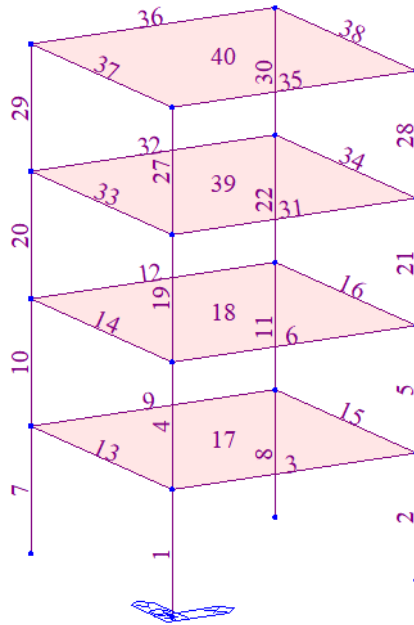
Cálculo de carga axial para dimensionamiento de columnas [kN/m ²]								
Calculo	Modelos							
	MB2N	MC4N	MD6N	ME8N	MF12N	MG14N	MH16N	MI20N
Área aferente de columna A_{af} [m ²]	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
Número de pisos	2	4	6	8	12	14	16	20
Q_u carga de la estructura [kN/m ²]	11.15	11.89	12.40	13.25	14.16	14.16	14.16	14.16
P_u carga axial por columna [kN]	253.80	539.42	842.56	1196.35	1912.66	2231.43	2550.21	3187.76
Ag área bruta sección de columna [m ²]	0.02	0.04	0.06	0.08	0.13	0.15	0.18	0.22
H_c altura de columna [m ²]	0.13	0.19	0.24	0.29	0.36	0.39	0.42	0.47
B_c ancho de columna [m ²]	0.13	0.19	0.24	0.29	0.36	0.39	0.42	0.47
Dimensión Columna $H_c = B_c$ [m]	0.40	0.45	0.50	0.55	0.60	0.60	0.60	0.60

A-3. Esquema de elementos para modelos en MidasGen.

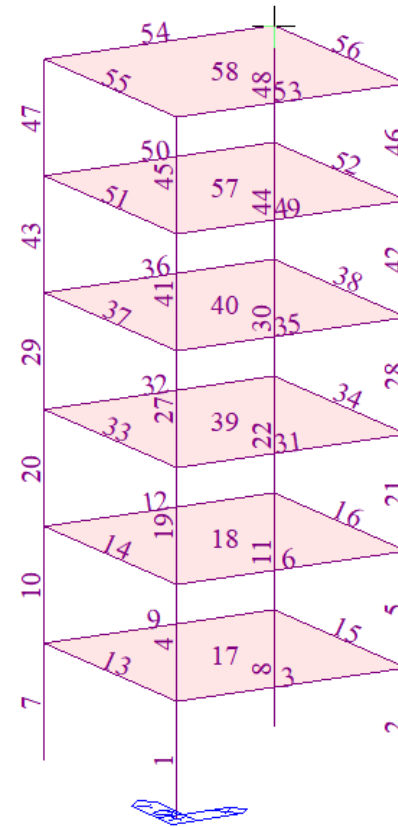
MB2N



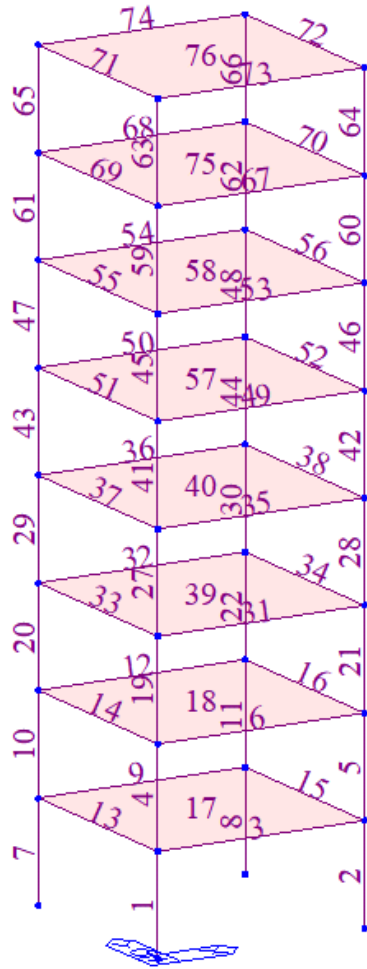
MC4N



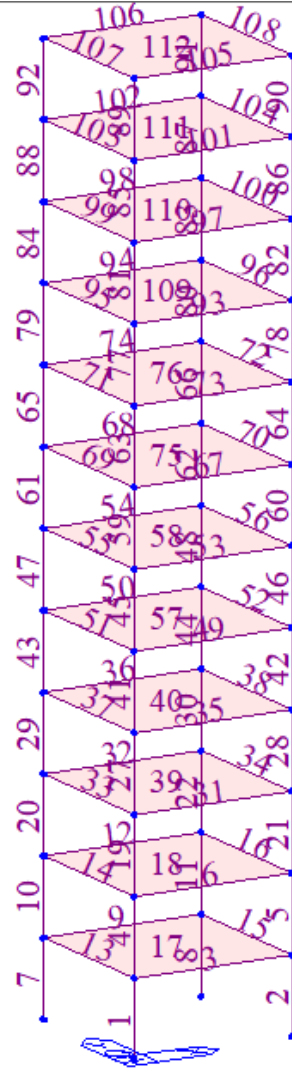
MD6N



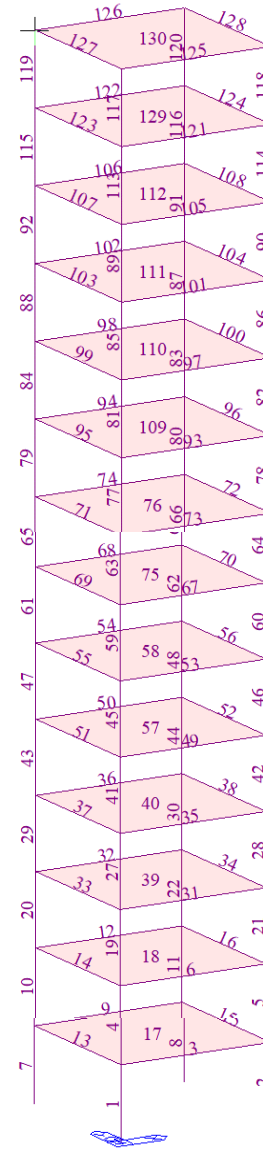
ME8N



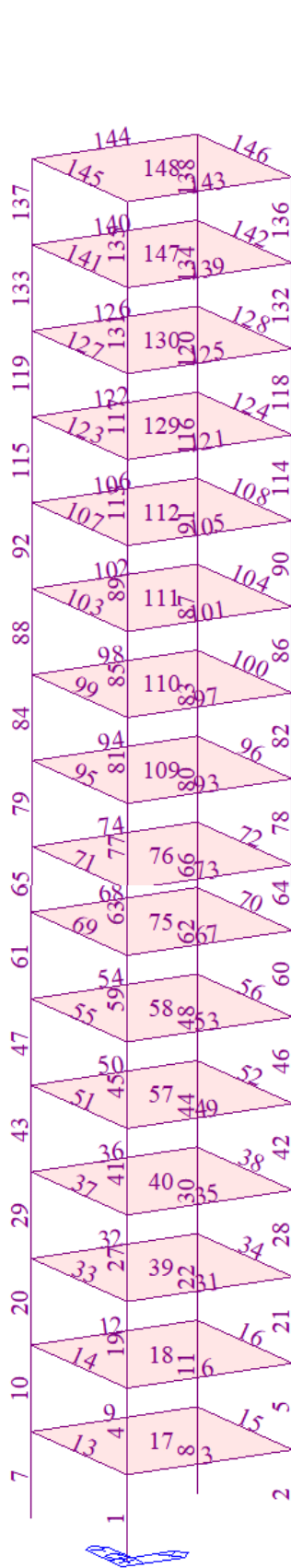
MF12N



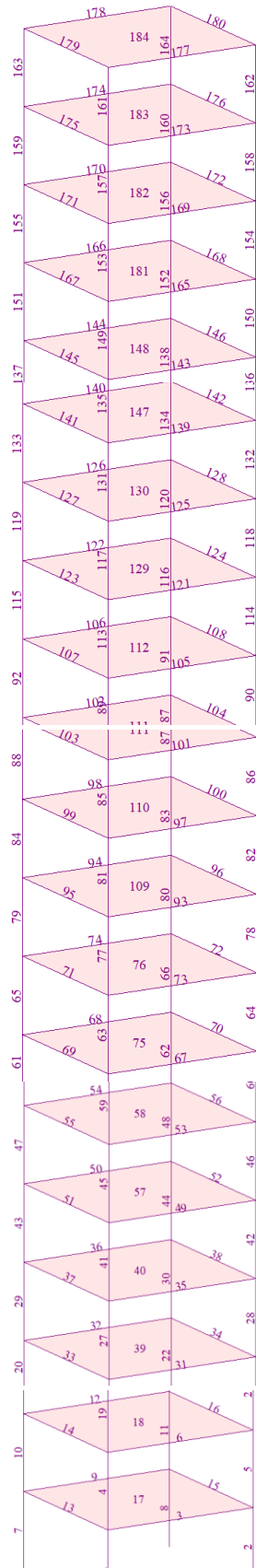
MG14N



MH16N



MI20N



A-4. Resultados del análisis modal por modelo.

Modo	Análisis modal sección bruta															
	Período	Frecuencia	Relación de periodos		Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
	[s]	[ciclos/s]			x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
			T_j/T_i													
1	0.37	2.74			86.19	0.13	0.00	86.19	0.13	0.00	0.00	0.02	0.00	0.00	0.02	0.00
2	0.37	2.74	T_2/T_1	1.00	0.13	86.19	0.00	86.31	86.31	0.00	0.02	0.00	0.00	0.02	0.02	0.00
3	0.32	3.09	T_3/T_2	0.89	0.00	0.00	0.00	86.31	86.31	0.00	0.00	0.00	1.95	0.02	0.02	1.95
4	0.10	10.27	T_4/T_3	0.30	13.42	0.16	0.00	99.73	86.47	0.00	0.01	0.45	0.00	0.03	0.47	1.95
5	0.10	10.27	T_5/T_4	1.00	0.16	13.42	0.00	99.89	99.89	0.00	0.45	0.01	0.00	0.48	0.48	1.95
Análisis modal sección Agrietada																
Modo	Período	Frecuencia	Relación de periodos		Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
	[s]	[ciclos/s]			x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	0.51	1.95	T_j/T_i		72.53	11.20	0.00	72.53	11.20	0.00	0.00	0.01	0.00	0.00	0.01	0.00
2	0.51	1.95	T_2/T_1	1.00	11.20	72.53	0.00	83.73	83.73	0.00	0.01	0.00	0.00	0.01	0.01	0.00
3	0.41	2.44	T_3/T_2	0.80	0.00	0.00	0.00	83.73	83.73	0.00	0.00	0.00	1.95	0.01	0.01	1.95
4	0.12	8.41	T_4/T_3	0.29	0.06	16.06	0.00	83.79	99.79	0.00	0.56	0.00	0.00	0.57	0.01	1.95
5	0.12	8.41	T_5/T_4	1.00	16.06	0.06	0.00	99.85	99.85	0.00	0.00	0.56	0.00	0.57	0.57	1.95
6	0.11	9.14	T_6/T_5	0.92	0.00	0.00	0.00	99.85	99.85	0.00	0.00	0.00	0.32	0.57	0.57	2.27
7	0.07	14.54	T_7/T_6	0.63	0.00	0.00	0.00	99.85	99.85	0.00	0.00	0.00	0.00	0.57	0.57	2.27
8	0.04	23.89	T_8/T_7	0.61	0.00	0.00	0.00	99.85	99.85	0.00	0.00	0.00	0.00	0.57	0.57	2.27

MODELO B 2NIVELES

Verificación de flexibilidad	
Altura de la estructura	5.6
Periodo fundamental	0.37
Verificación	15.34

Periodo admisible aproximado	
Número de pisos	2
Factor	0.1
Periodo adm	0.2

Análisis modal sección bruta																
Modo	Período	Frecuencia	Relación de periodos		Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
	[s]	[ciclos/s]			x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	0.64	1.56	T_j/T_i		1.23	80.24	0.00	1.23	80.24	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.64	1.56	T_2/T_1	1.00	80.24	1.23	0.00	81.47	81.47	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.54	1.84	T_3/T_2	0.85	0.00	0.00	0.00	81.47	81.47	0.00	0.00	0.00	1.96	0.00	1.96	
4	0.19	5.34	T_4/T_3	0.34	0.28	11.86	0.00	81.75	93.33	0.00	0.03	0.00	0.00	0.03	1.96	
5	0.19	5.34	T_5/T_4	1.00	11.86	0.28	0.00	93.61	93.61	0.00	0.00	0.03	0.00	0.03	1.96	
6	0.17	6.02	T_6/T_5	0.89	0.00	0.00	0.00	93.61	93.61	0.00	0.00	0.00	0.24	0.03	2.21	
7	0.09	10.63	T_7/T_6	0.57	0.28	4.51	0.00	93.89	98.12	0.00	0.04	0.00	0.00	0.07	2.21	
8	0.09	10.63	T_8/T_7	1.00	4.51	0.28	0.00	98.39	98.39	0.00	0.00	0.04	0.00	0.08	2.21	
9	0.09	11.47	T_9/T_8	0.93	0.00	0.00	0.00	98.39	98.39	0.00	0.00	0.00	0.16	0.08	2.36	
10	0.07	15.05	T_{10}/T_9	0.76	0.00	0.00	0.00	98.39	98.39	0.00	0.00	0.00	0.00	0.08	2.36	

Análisis modal sección Agrietada																
Modo	Período	Frecuencia	Relación de periodos		Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
	[s]	[ciclos/s]			x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	0.95	1.05	T_j/T_i		78.75	0.38	0.00	78.75	0.38	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.95	1.05	T_2/T_1	1.00	0.38	78.75	0.00	79.13	79.13	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.70	1.42	T_3/T_2	0.74	0.00	0.00	0.00	79.13	79.13	0.00	0.00	0.00	2.03	0.00	2.03	
4	0.26	3.84	T_4/T_3	0.37	0.44	13.04	0.00	79.57	92.17	0.00	0.04	0.00	0.00	0.04	2.03	
5	0.26	3.84	T_5/T_4	1.00	13.04	0.44	0.00	92.61	92.61	0.00	0.00	0.04	0.00	0.04	2.03	
6	0.21	4.70	T_6/T_5	0.82	0.00	0.00	0.00	92.61	92.61	0.00	0.00	0.00	0.26	0.04	2.29	
7	0.12	8.31	T_7/T_6	0.57	1.51	3.95	0.00	94.12	96.56	0.00	0.02	0.01	0.00	0.06	2.29	
8	0.12	8.31	T_8/T_7	1.00	3.95	1.51	0.00	98.07	98.07	0.00	0.01	0.02	0.00	0.07	2.29	
9	0.11	9.27	T_9/T_8	0.90	0.00	0.00	0.00	98.07	98.07	0.00	0.00	0.00	0.17	0.07	2.46	
10	0.07	13.52	T_{10}/T_9	0.69	0.02	1.85	0.00	98.09	99.91	0.00	0.18	0.00	0.00	0.25	2.46	

MODELO C 4 NIVELES

Verificación de flexibilidad	
Altura de las estructuras	11.2
Periodo fundamental	0.64
Verificación	17.48

Periodo admisible aproximado	
Número de pisos	4
factor	0.1
periodo adm	0.4

Análisis modal sección bruta																
Modo	Período	Frecuencia	Relación de periodos		Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
	[s]	[ciclos/s]			x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	0.80	1.24	T_j/T_i		17.66	62.93	0.00	17.66	62.93	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.80	1.24	T_2/T_1	1.00	62.93	17.66	0.00	80.59	80.59	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.65	1.53	T_3/T_2	0.81	0.00	0.00	0.00	80.59	80.59	0.00	0.00	0.00	2.53	0.00	2.53	
4	0.25	4.03	T_4/T_3	0.38	0.57	10.44	0.00	81.15	91.03	0.00	0.00	0.00	0.00	0.00	2.53	
5	0.25	4.03	T_5/T_4	1.00	10.44	0.57	0.00	91.60	91.60	0.00	0.00	0.00	0.00	0.00	2.53	
6	0.21	4.80	T_6/T_5	0.84	0.00	0.00	0.00	91.60	91.60	0.00	0.00	0.00	0.27	0.00	2.80	
7	0.13	7.61	T_7/T_6	0.63	0.31	4.10	0.00	91.91	95.70	0.00	0.01	0.00	0.00	0.01	2.80	
8	0.13	7.61	T_8/T_7	1.00	4.10	0.31	0.00	96.01	96.01	0.00	0.00	0.01	0.00	0.01	2.80	
9	0.12	8.67	T_9/T_8	0.88	0.00	0.00	0.00	96.01	96.01	0.00	0.00	0.00	0.17	0.01	2.96	
10	0.08	11.97	T_{10}/T_9	0.72	1.49	0.86	0.00	97.50	96.87	0.00	0.01	0.02	0.00	0.03	2.96	
11	0.08	11.97	T_{11}/T_{10}	1.00	0.86	1.49	0.00	98.36	98.36	0.00	0.02	0.01	0.00	0.05	2.96	
12	0.08	13.25	T_{12}/T_{11}	0.90	0.00	0.00	0.00	98.36	98.36	0.00	0.00	0.00	0.06	0.05	3.03	
13	0.06	16.73	T_{13}/T_{12}	0.79	0.98	0.23	0.00	99.34	98.59	0.00	0.01	0.04	0.00	0.06	3.03	
14	0.06	16.73	T_{14}/T_{13}	1.00	0.23	0.98	0.00	99.57	99.57	0.00	0.04	0.01	0.00	0.10	3.03	
15	0.06	18.14	T_{15}/T_{14}	0.92	0.00	0.00	0.00	99.57	99.57	0.00	0.00	0.00	0.06	0.10	3.08	

Análisis modal sección Agrietada																
Modo	Período	Frecuencia	Relación de periodos		Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
	[s]	[ciclos/s]			x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	1.21	0.83	T_j/T_i		78.85	0.10	0.00	78.85	0.10	0.00	0.00	0.00	0.00	0.00	0.00	
2	1.21	0.83	T_2/T_1	1.00	0.10	78.85	0.00	78.95	78.95	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.85	1.18	T_3/T_2	0.70	0.00	0.00	0.00	78.95	78.95	0.00	0.00	0.00	2.63	0.00	2.63	
4	0.36	2.79	T_4/T_3	0.42	11.41	0.06	0.00	90.36	79.01	0.00	0.00	0.01	0.00	0.00	2.63	

MODELO D 6 NIVELES

Verificación de flexibilidad	
Altura de las estructuras	16.8
Periodo fundamental	0.80
Verificación	20.89

Periodo admisible aproximado	
Número de pisos	6
factor	0.1
periodo adm	0.6

5	0.36	2.79	T5/T4	1.00	0.06	11.41	0.00	90.42	90.42	0.00	0.01	0.00	0.00	0.01	0.01	2.63
6	0.27	3.75	T6/T5	0.74	0.00	0.00	0.00	90.42	90.42	0.00	0.00	0.00	0.29	0.01	0.01	2.92
7	0.18	5.57	T7/T6	0.67	4.91	0.03	0.00	95.33	90.44	0.00	0.00	0.00	0.00	0.01	0.01	2.92
8	0.18	5.57	T8/T7	1.00	0.03	4.91	0.00	95.36	95.36	0.00	0.00	0.00	0.00	0.01	0.01	2.92
9	0.15	6.87	T9/T8	0.81	0.00	0.00	0.00	95.36	95.36	0.00	0.00	0.00	0.18	0.01	0.01	3.10
10	0.11	9.29	T10/T9	0.74	2.68	0.00	0.00	98.03	95.36	0.00	0.00	0.07	0.00	0.01	0.08	3.10
11	0.11	9.29	T11/T10	1.00	0.00	2.68	0.00	98.03	98.03	0.00	0.07	0.00	0.00	0.08	0.08	3.10
12	0.09	10.73	T12/T11	0.87	0.00	0.00	0.00	98.03	98.03	0.00	0.00	0.00	0.07	0.08	0.08	3.17
13	0.07	13.60	T13/T12	0.79	1.34	0.08	0.00	99.38	98.11	0.00	0.00	0.03	0.00	0.08	0.10	3.17
14	0.07	13.60	T14/T13	1.00	0.08	1.34	0.00	99.46	99.46	0.00	0.03	0.00	0.00	0.10	0.10	3.17
15	0.07	15.03	T15/T14	0.90	0.00	0.00	0.00	99.46	99.46	0.00	0.00	0.00	0.06	0.10	0.10	3.23

Modo	Periodo [s]	Frecuencia [ciclos/s]	Relación de periodos	Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)			
				x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	
				Tj/Ti												
1	0.96	1.04		0.13	79.58	0.00	0.13	79.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.96	1.04	T2/T1	1.00	79.58	0.13	0.00	79.71	79.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.76	1.32	T3/T2	0.79	0.00	0.00	0.00	79.71	79.71	0.00	0.00	0.00	2.69	0.00	0.00	2.69
4	0.30	3.31	T4/T3	0.40	0.00	10.97	0.00	79.71	90.68	0.00	0.00	0.00	0.00	0.00	0.00	2.69
5	0.30	3.31	T5/T4	1.00	10.97	0.00	0.00	90.68	90.68	0.00	0.00	0.00	0.00	0.00	0.00	2.69
6	0.24	4.09	T6/T5	0.81	0.00	0.00	0.00	90.68	90.68	0.00	0.00	0.00	0.28	0.00	0.00	2.97
7	0.16	6.11	T7/T6	0.67	0.01	4.10	0.00	90.69	94.78	0.00	0.01	0.00	0.00	0.01	0.00	2.97
8	0.16	6.11	T8/T7	1.00	4.10	0.01	0.00	94.79	94.79	0.00	0.00	0.01	0.00	0.01	0.01	2.97
9	0.14	7.19	T9/T8	0.85	0.00	0.00	0.00	94.79	94.79	0.00	0.00	0.00	0.16	0.01	0.01	3.13
10	0.11	9.42	T10/T9	0.76	0.02	2.27	0.00	94.81	97.06	0.00	0.00	0.00	0.00	0.01	0.01	3.13
11	0.11	9.42	T11/T10	1.00	2.27	0.02	0.00	97.08	97.08	0.00	0.00	0.00	0.00	0.01	0.01	3.13
12	0.09	10.77	T12/T11	0.87	0.00	0.00	0.00	97.08	97.08	0.00	0.00	0.00	0.06	0.01	0.01	3.19

Verificación de flexibilidad	
Altura de las estructuras	22.4
Periodo fundamental	0.96
Verificación	23.33

Periodo admisible aproximado	
Número de pisos	8
factor	0.1
periodo adm	0.8

13	0.08	13.29	T13/T12	0.81	0.34	1.07	0.00	97.42	98.15	0.00	0.03	0.01	0.00	0.04	0.02	3.19
14	0.08	13.29	T14/T13	1.00	1.07	0.34	0.00	98.49	98.49	0.00	0.01	0.03	0.00	0.05	0.05	3.19
15	0.07	14.84	T15/T14	0.90	0.00	0.00	0.00	98.49	98.49	0.00	0.00	0.00	0.07	0.05	0.05	3.26
16	0.06	17.45	T16/T15	0.85	0.13	0.75	0.00	98.61	99.23	0.00	0.00	0.00	0.00	0.05	0.05	3.26
17	0.06	17.45	T17/T16	1.00	0.75	0.13	0.00	99.36	99.36	0.00	0.00	0.00	0.00	0.05	0.05	3.26

Análisis modal sección Agrietada

Modo	Período	Frecuencia	Relación de periodos	Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)			
	[s]	[ciclos/s]		x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	
1	1.44	0.69	T_j/T_i	0.01	78.72	0.00	0.01	78.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1.44	0.69	T2/T1	1.00	78.72	0.01	0.00	78.73	78.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.98	1.02	T3/T2	0.68	0.00	0.00	0.00	78.73	78.73	0.00	0.00	0.00	2.84	0.00	0.00	2.84
4	0.44	2.26	T4/T3	0.45	0.00	10.82	0.00	78.73	89.55	0.00	0.00	0.00	0.00	0.00	0.00	2.84
5	0.44	2.26	T5/T4	1.00	10.82	0.00	0.00	89.55	89.55	0.00	0.00	0.00	0.00	0.00	0.00	2.84
6	0.31	3.18	T6/T5	0.71	0.00	0.00	0.00	89.55	89.55	0.00	0.00	0.00	0.30	0.00	0.00	3.14
7	0.23	4.32	T7/T6	0.74	0.01	4.48	0.00	89.56	94.03	0.00	0.00	0.00	0.00	0.00	0.00	3.14
8	0.23	4.32	T8/T7	1.00	4.48	0.01	0.00	94.04	94.04	0.00	0.00	0.00	0.00	0.00	0.00	3.14
9	0.18	5.65	T9/T8	0.77	0.00	0.00	0.00	94.04	94.04	0.00	0.00	0.00	0.17	0.00	0.00	3.31
10	0.14	6.99	T10/T9	0.81	0.03	2.54	0.00	94.07	96.58	0.00	0.01	0.00	0.00	0.02	0.00	3.31
11	0.14	6.99	T11/T10	1.00	2.54	0.03	0.00	96.60	96.60	0.00	0.00	0.01	0.00	0.02	0.02	3.31
12	0.12	8.58	T12/T11	0.82	0.00	0.00	0.00	96.60	96.60	0.00	0.00	0.00	0.07	0.02	0.02	3.38
13	0.10	10.29	T13/T12	0.83	0.34	1.26	0.00	96.94	97.87	0.00	0.01	0.00	0.00	0.03	0.02	3.38
14	0.10	10.29	T14/T13	1.00	1.26	0.34	0.00	98.20	98.20	0.00	0.00	0.01	0.00	0.03	0.03	3.38
15	0.08	12.02	T15/T14	0.86	0.00	0.00	0.00	98.20	98.20	0.00	0.00	0.00	0.07	0.03	0.03	3.46
16	0.07	14.03	T16/T15	0.86	0.10	0.91	0.00	98.31	99.11	0.00	0.04	0.00	0.00	0.07	0.03	3.46
17	0.07	14.03	T17/T16	1.00	0.91	0.10	0.00	99.21	99.21	0.00	0.00	0.04	0.00	0.07	0.07	3.46

Análisis modal sección bruta																
Modo	Período [s]	Frecuencia [ciclos/s]	Relación de periodos		Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
					x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	1.36	0.74	Tj/Ti		57.77	20.19	0.00	57.77	20.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1.36	0.74	T2/T1	1.00	20.19	57.77	0.00	77.96	77.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	1.00	1.00	T3/T2	0.73	0.00	0.00	0.00	77.96	77.96	0.00	0.00	0.00	2.81	0.00	0.00	2.81
4	0.43	2.32	T4/T3	0.43	11.58	0.35	0.00	89.53	78.31	0.00	0.00	0.01	0.00	0.00	0.01	2.81
5	0.43	2.32	T5/T4	1.00	0.35	11.58	0.00	89.88	89.88	0.00	0.01	0.00	0.00	0.01	0.01	2.81
6	0.33	3.05	T6/T5	0.76	0.00	0.00	0.00	89.88	89.88	0.00	0.00	0.00	0.29	0.01	0.01	3.09
7	0.23	4.26	T7/T6	0.71	0.62	3.21	0.00	90.51	93.10	0.00	0.01	0.00	0.00	0.02	0.02	3.09
8	0.23	4.26	T8/T7	1.00	3.21	0.62	0.00	93.72	93.72	0.00	0.00	0.01	0.00	0.02	0.02	3.09
9	0.19	5.22	T9/T8	0.82	0.00	0.00	0.00	93.72	93.72	0.00	0.00	0.00	0.14	0.02	0.02	3.24
10	0.16	6.36	T10/T9	0.82	0.39	1.72	0.00	94.12	95.44	0.00	0.00	0.00	0.00	0.03	0.02	3.24
11	0.16	6.36	T11/T10	1.00	1.72	0.39	0.00	95.84	95.84	0.00	0.00	0.00	0.00	0.03	0.03	3.24
12	0.13	7.61	T12/T11	0.84	0.00	0.00	0.00	95.84	95.84	0.00	0.00	0.00	0.06	0.03	0.03	3.30
13	0.11	8.78	T13/T12	0.87	0.49	0.84	0.00	96.33	96.68	0.00	0.02	0.01	0.00	0.04	0.04	3.30
14	0.11	8.78	T14/T13	1.00	0.84	0.49	0.00	97.17	97.17	0.00	0.01	0.02	0.00	0.05	0.05	3.30
15	0.10	10.24	T15/T14	0.86	0.00	0.00	0.00	97.17	97.17	0.00	0.00	0.00	0.06	0.05	0.05	3.36
16	0.09	11.46	T16/T15	0.89	0.93	0.00	0.00	98.10	97.17	0.00	0.00	0.01	0.00	0.05	0.07	3.36
17	0.09	11.46	T17/T16	1.00	0.00	0.93	0.00	98.10	98.10	0.00	0.01	0.00	0.00	0.07	0.07	3.36
18	0.08	12.25	T18/T17	0.94	0.00	0.00	84.47	98.10	98.10	84.47	0.00	0.00	0.00	0.07	0.07	3.36
19	0.08	13.14	T19/T18	0.93	0.00	0.00	0.00	98.10	98.10	84.47	0.00	0.00	0.03	0.07	0.07	3.38
20	0.07	14.43	T20/T19	0.91	0.31	0.35	0.00	98.41	98.45	84.47	0.14	0.12	0.00	0.21	0.19	3.38
21	0.07	14.43	T21/T20	1.00	0.35	0.31	0.00	98.76	98.76	84.47	0.12	0.14	0.00	0.33	0.33	3.38
22	0.06	16.22	T22/T21	0.89	0.01	0.04	0.00	98.77	98.80	84.47	5.17	1.49	0.00	5.49	1.82	3.38
23	0.06	16.22	T23/T22	1.00	0.04	0.01	0.00	98.81	98.81	84.47	1.49	5.17	0.00	6.98	6.98	3.38

MODELO F 12NIVELES

Análisis modal sección Agrietada

Verificación de flexibilidad	
Altura de las estructuras	33.6
Periodo fundamental	1.36
Verificación	24.71

Periodo admisible aproximado	
Número de pisos	12
factor	0.1
periodo adm	1.2

Modo	Período	Frecuencia	Relación de periodos		Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
	[s]	[ciclos/s]			x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	2.00	0.50	T_j/T_i		71.90	6.38	0.00	71.90	6.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2.00	0.50	T_2/T_1	1.00	6.38	71.90	0.00	78.29	78.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	1.29	0.77	T_3/T_2	0.65	0.00	0.00	0.00	78.29	78.29	0.00	0.00	0.00	3.01	0.00	0.00	3.01
4	0.63	1.58	T_4/T_3	0.49	8.67	2.03	0.00	86.96	80.32	0.00	0.00	0.00	0.00	0.00	0.00	3.01
5	0.63	1.58	T_5/T_4	1.00	2.03	8.67	0.00	88.99	88.99	0.00	0.00	0.00	0.00	0.00	0.00	3.01
6	0.42	2.36	T_6/T_5	0.67	0.00	0.00	0.00	88.99	88.99	0.00	0.00	0.00	0.31	0.00	0.00	3.32
7	0.34	2.91	T_7/T_6	0.81	3.26	0.74	0.00	92.25	89.72	0.00	0.00	0.00	0.00	0.00	0.00	3.32
8	0.34	2.91	T_8/T_7	1.00	0.74	3.26	0.00	92.98	92.98	0.00	0.00	0.00	0.00	0.00	0.00	3.32
9	0.25	4.07	T_9/T_8	0.71	0.00	0.00	0.00	92.98	92.98	0.00	0.00	0.00	0.16	0.00	0.00	3.48
10	0.22	4.48	T_{10}/T_9	0.91	2.00	0.28	0.00	94.98	93.27	0.00	0.00	0.00	0.00	0.00	0.00	3.48
11	0.22	4.48	T_{11}/T_{10}	1.00	0.28	2.00	0.00	95.27	95.27	0.00	0.00	0.00	0.00	0.00	0.00	3.48
12	0.17	5.97	T_{12}/T_{11}	0.75	0.00	0.00	0.00	95.27	95.27	0.00	0.00	0.00	0.06	0.00	0.00	3.54
13	0.16	6.39	T_{13}/T_{12}	0.93	1.19	0.29	0.00	96.46	95.56	0.00	0.00	0.00	0.00	0.00	0.01	3.54
14	0.16	6.39	T_{14}/T_{13}	1.00	0.29	1.19	0.00	96.75	96.75	0.00	0.00	0.00	0.00	0.01	0.01	3.54
15	0.12	8.11	T_{15}/T_{14}	0.79	0.00	0.00	0.00	96.75	96.75	0.00	0.00	0.00	0.06	0.01	0.01	3.60
16	0.12	8.62	T_{16}/T_{15}	0.94	1.01	0.03	0.00	97.76	96.78	0.00	0.00	0.00	0.00	0.01	0.01	3.60
17	0.12	8.62	T_{17}/T_{16}	1.00	0.03	1.01	0.00	97.80	97.80	0.00	0.00	0.00	0.00	0.01	0.01	3.60
18	0.10	10.52	T_{18}/T_{17}	0.82	0.00	0.00	0.00	97.80	97.80	0.00	0.00	0.00	0.03	0.01	0.01	3.63
19	0.09	11.18	T_{19}/T_{18}	0.94	0.73	0.03	0.00	98.52	97.83	0.00	0.00	0.03	0.00	0.01	0.04	3.63
20	0.09	11.18	T_{20}/T_{19}	1.00	0.03	0.73	0.00	98.55	98.55	0.00	0.03	0.00	0.00	0.04	0.04	3.63
21	0.08	12.21	T_{21}/T_{20}	0.92	0.00	0.00	84.39	98.55	98.55	84.39	0.00	0.00	0.00	0.04	0.04	3.63
22	0.08	13.20	T_{22}/T_{21}	0.93	0.00	0.00	0.00	98.55	98.55	84.39	0.00	0.00	0.04	0.04	0.04	3.67
23	0.07	13.96	T_{23}/T_{22}	0.94	0.52	0.02	0.00	99.07	98.58	84.39	0.01	0.18	0.00	0.05	0.21	3.67

Análisis modal sección bruta																
Modo	Período [s]	Frecuencia [ciclos/s]	Relación de periodos		Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
					x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	1.64	0.61	Tj/Ti		19.88	57.26	0.00	19.88	57.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1.64	0.61	T2/T1	1.00	57.26	19.88	0.00	77.13	77.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	1.17	0.86	T3/T2	0.71	0.00	0.00	0.00	77.13	77.13	0.00	0.00	0.00	2.79	0.00	0.00	2.79
4	0.52	1.94	T4/T3	0.44	1.21	11.32	0.00	78.34	88.46	0.00	0.01	0.00	0.00	0.02	0.00	2.79
5	0.52	1.94	T5/T4	1.00	11.32	1.21	0.00	89.67	89.67	0.00	0.00	0.01	0.00	0.02	0.02	2.79
6	0.39	2.60	T6/T5	0.75	0.00	0.00	0.00	89.67	89.67	0.00	0.00	0.00	0.29	0.02	0.02	3.08
7	0.28	3.57	T7/T6	0.73	2.10	1.70	0.00	91.76	91.36	0.00	0.00	0.00	0.00	0.02	0.02	3.08
8	0.28	3.57	T8/T7	1.00	1.70	2.10	0.00	93.46	93.46	0.00	0.00	0.00	0.00	0.03	0.03	3.08
9	0.23	4.42	T9/T8	0.81	0.00	0.00	0.00	93.46	93.46	0.00	0.00	0.00	0.14	0.03	0.03	3.21
10	0.19	5.27	T10/T9	0.84	1.78	0.28	0.00	95.24	93.74	0.00	0.00	0.01	0.00	0.03	0.03	3.21
11	0.19	5.27	T11/T10	1.00	0.28	1.78	0.00	95.52	95.52	0.00	0.01	0.00	0.00	0.03	0.03	3.21
12	0.16	6.39	T12/T11	0.83	0.00	0.00	0.00	95.52	95.52	0.00	0.00	0.00	0.06	0.03	0.03	3.27
13	0.14	7.21	T13/T12	0.89	0.08	1.21	0.00	95.60	96.72	0.00	0.02	0.00	0.00	0.05	0.03	3.27
14	0.14	7.21	T14/T13	1.00	1.21	0.08	0.00	96.81	96.81	0.00	0.00	0.02	0.00	0.05	0.05	3.27
15	0.12	8.52	T15/T14	0.85	0.00	0.00	0.00	96.81	96.81	0.00	0.00	0.00	0.05	0.05	0.05	3.32
16	0.11	9.34	T16/T15	0.91	0.91	0.00	0.00	97.72	96.81	0.00	0.00	0.02	0.00	0.05	0.07	3.32
17	0.11	9.34	T17/T16	1.00	0.00	0.91	0.00	97.72	97.72	0.00	0.02	0.00	0.00	0.07	0.07	3.32
18	0.09	10.56	T18/T17	0.88	0.00	0.00	84.04	97.72	97.72	84.04	0.00	0.00	0.00	0.07	0.07	3.32
19	0.09	10.86	T19/T18	0.97	0.00	0.00	0.00	97.72	97.72	84.04	0.00	0.00	0.03	0.07	0.07	3.35
20	0.09	11.71	T20/T19	0.93	0.42	0.24	0.00	98.14	97.96	84.04	0.04	0.07	0.00	0.11	0.14	3.35
21	0.09	11.71	T21/T20	1.00	0.24	0.42	0.00	98.38	98.38	84.04	0.07	0.04	0.00	0.17	0.17	3.35
22	0.07	13.40	T22/T21	0.87	0.00	0.00	0.00	98.38	98.38	84.04	0.00	0.00	0.03	0.17	0.17	3.38
23	0.07	14.13	T23/T22	0.95	0.04	0.36	0.00	98.42	98.74	84.04	1.38	0.16	0.00	1.56	0.33	3.38
24	0.07	14.13	T24/T23	1.00	0.36	0.04	0.00	98.78	98.78	84.04	0.16	1.38	0.00	1.71	1.71	3.38
25	0.07	14.87	T25/T24	0.95	0.10	0.02	0.00	98.88	98.80	84.04	0.88	4.74	0.00	2.59	6.46	3.38

MODELO G 14 NIVELES

Verificación de flexibilidad	
Altura de las estructuras	39.2
Periodo fundamental	1.64
Verificación	23.92

Periodo admisible aproximado	
Número de pisos	14
factor	0.1
periodo adm	1.4

26	0.07	14.87	T26/T25	1.00	0.02	0.10	0.00	98.90	98.90	84.04	4.74	0.88	0.00	7.34	7.34	3.38
27	0.06	16.12	T27/T26	0.92	0.00	0.00	0.00	98.90	98.90	84.04	0.00	0.00	0.02	7.34	7.34	3.40
28	0.06	17.06	T28/T27	0.95	0.24	0.14	0.00	99.14	99.04	84.04	0.02	0.04	0.00	7.36	7.37	3.40
29	0.06	17.06	T29/T28	1.00	0.14	0.24	0.00	99.28	99.28	84.04	0.04	0.02	0.00	7.39	7.39	3.40
30	0.05	18.98	T30/T29	0.90	0.00	0.00	0.00	99.28	99.28	84.04	0.00	0.00	0.02	7.39	7.39	3.42

Análisis modal sección Agrietada

Modo	Período	Frecuencia	Relación de periodos	Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
	[s]	[ciclos/s]		x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	2.38	0.42	T_j/T_i	70.18	7.86	0.00	70.18	7.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2.38	0.42	T2/T1	1.00	7.86	70.18	0.00	78.04	78.04	0.00	0.00	0.00	0.00	0.00	0.00
3	1.51	0.66	T3/T2	0.64	0.00	0.00	0.00	78.04	78.04	0.00	0.00	0.00	2.99	0.00	2.99
4	0.76	1.32	T4/T3	0.50	10.79	0.07	0.00	88.82	78.10	0.00	0.00	0.00	0.00	0.00	2.99
5	0.76	1.32	T5/T4	1.00	0.07	10.79	0.00	88.89	88.89	0.00	0.00	0.00	0.00	0.00	2.99
6	0.50	2.01	T6/T5	0.66	0.00	0.00	0.00	88.89	88.89	0.00	0.00	0.00	0.31	0.00	3.31
7	0.42	2.41	T7/T6	0.83	3.34	0.53	0.00	92.23	89.42	0.00	0.00	0.00	0.00	0.00	3.31
8	0.42	2.41	T8/T7	1.00	0.53	3.34	0.00	92.76	92.76	0.00	0.00	0.00	0.00	0.01	3.31
9	0.29	3.44	T9/T8	0.70	0.00	0.00	0.00	92.76	92.76	0.00	0.00	0.00	0.15	0.01	3.45
10	0.27	3.65	T10/T9	0.94	1.95	0.23	0.00	94.71	92.99	0.00	0.00	0.00	0.00	0.01	3.45
11	0.27	3.65	T11/T10	1.00	0.23	1.95	0.00	94.94	94.94	0.00	0.00	0.00	0.00	0.01	3.45
12	0.20	4.99	T12/T11	0.73	0.00	0.00	0.00	94.94	94.94	0.00	0.00	0.00	0.06	0.01	3.51
13	0.19	5.13	T13/T12	0.97	1.16	0.26	0.00	96.10	95.20	0.00	0.00	0.00	0.00	0.01	3.51
14	0.19	5.13	T14/T13	1.00	0.26	1.16	0.00	96.36	96.36	0.00	0.00	0.00	0.00	0.01	3.51
15	0.15	6.71	T15/T14	0.77	0.00	0.00	0.00	96.36	96.36	0.00	0.00	0.00	0.06	0.01	3.57
16	0.15	6.85	T16/T15	0.98	1.01	0.00	0.00	97.37	96.36	0.00	0.00	0.00	0.00	0.01	3.57
17	0.15	6.85	T17/T16	1.00	0.00	1.01	0.00	97.37	97.37	0.00	0.00	0.00	0.00	0.01	3.57
18	0.12	8.62	T18/T17	0.80	0.00	0.00	0.00	97.37	97.37	0.00	0.00	0.00	0.03	0.01	3.60
19	0.11	8.83	T19/T18	0.98	0.55	0.20	0.00	97.92	97.57	0.00	0.01	0.01	0.00	0.02	3.60
20	0.11	8.83	T20/T19	1.00	0.20	0.55	0.00	98.12	98.12	0.00	0.01	0.01	0.00	0.03	3.60

21	0.09	10.54	T ₂₁ /T ₂₀	0.84	0.00	0.00	83.99	98.12	98.12	83.99	0.00	0.00	0.00	0.03	0.03	3.60
22	0.09	10.74	T ₂₂ /T ₂₁	0.98	0.00	0.00	0.00	98.12	98.12	83.99	0.00	0.00	0.04	0.03	0.03	3.64
23	0.09	11.03	T ₂₃ /T ₂₂	0.97	0.20	0.36	0.00	98.33	98.49	83.99	0.01	0.00	0.00	0.04	0.03	3.64
24	0.09	11.03	T ₂₄ /T ₂₃	1.00	0.36	0.20	0.00	98.69	98.69	83.99	0.00	0.01	0.00	0.04	0.04	3.64
25	0.08	12.89	T ₂₅ /T ₂₄	0.86	0.03	0.00	0.00	98.71	98.69	83.99	0.19	7.97	0.00	0.23	8.01	3.64
26	0.08	12.89	T ₂₆ /T ₂₅	1.00	0.00	0.03	0.00	98.72	98.72	83.99	7.97	0.19	0.00	8.20	8.20	3.64
27	0.08	13.05	T ₂₇ /T ₂₆	0.99	0.00	0.00	0.00	98.72	98.72	83.99	0.00	0.00	0.02	8.20	8.20	3.65
28	0.07	13.47	T ₂₈ /T ₂₇	0.97	0.24	0.18	0.00	98.95	98.89	83.99	0.14	0.18	0.00	8.33	8.38	3.65
29	0.07	13.47	T ₂₉ /T ₂₈	1.00	0.18	0.24	0.00	99.13	99.13	83.99	0.18	0.14	0.00	8.51	8.51	3.65
30	0.06	15.52	T ₃₀ /T ₂₉	0.87	0.00	0.00	0.00	99.13	99.13	83.99	0.00	0.00	0.02	8.51	8.51	3.68

Modo	Análisis modal sección bruta														
	Período [s]	Frecuencia [ciclos/s]	Relación de periodos T _j /T _i	Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
				x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	1.94	0.52	T ₂ /T ₁	1.00	1.59	74.70	0.00	74.70	1.59	0.00	0.00	0.00	0.00	0.00	0.00
2	1.94	0.52	T ₃ /T ₂	0.69	0.00	0.00	0.00	76.29	76.29	0.00	0.00	0.00	0.00	0.00	0.00
3	1.34	0.75	T ₄ /T ₃	0.45	0.17	13.03	0.00	76.46	89.32	0.00	0.02	0.00	0.00	0.02	0.00
4	0.61	1.65	T ₅ /T ₄	1.00	13.03	0.17	0.00	89.49	89.49	0.00	0.00	0.02	0.00	0.02	0.02
5	0.44	2.26	T ₆ /T ₅	0.73	0.00	0.00	0.00	89.49	89.49	0.00	0.00	0.00	0.29	0.02	0.02
6	0.33	3.06	T ₇ /T ₆	0.74	0.06	3.73	0.00	89.55	93.22	0.00	0.01	0.00	0.00	0.03	0.02
7	0.33	3.06	T ₈ /T ₇	1.00	3.73	0.06	0.00	93.28	93.28	0.00	0.00	0.01	0.00	0.03	0.03
8	0.26	3.84	T ₉ /T ₈	0.80	0.00	0.00	0.00	93.28	93.28	0.00	0.00	0.00	0.13	0.03	0.03
9	0.22	4.50	T ₁₀ /T ₉	0.85	1.05	0.97	0.00	94.33	94.25	0.00	0.00	0.01	0.00	0.03	0.03
10	0.22	4.50	T ₁₁ /T ₁₀	1.00	0.97	1.05	0.00	95.30	95.30	0.00	0.01	0.00	0.00	0.04	0.04
11	0.18	5.51	T ₁₂ /T ₁₁	0.82	0.00	0.00	0.00	95.30	95.30	0.00	0.00	0.00	0.05	0.04	0.04
12	0.16	6.10	T ₁₃ /T ₁₂	0.90	1.17	0.08	0.00	96.47	95.38	0.00	0.00	0.02	0.00	0.04	0.05

Verificación de flexibilidad	
Altura de las estructuras	44.8
Periodo fundamental	1.94
Verificación	23.12

Periodo admisible aproximado	
Número de pisos	16
factor	0.1
periodo adm	1.6

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14	0.16	6.10	T14/T13	1.00	0.08	1.17	0.00	96.55	96.55	0.00	0.02	0.00	0.00	0.06	0.06	3.25
15	0.14	7.30	T15/T14	0.84	0.00	0.00	0.00	96.55	96.55	0.00	0.00	0.00	0.05	0.06	0.06	3.30
16	0.13	7.85	T16/T15	0.93	0.14	0.74	0.00	96.70	97.29	0.00	0.01	0.00	0.00	0.07	0.06	3.30
17	0.13	7.85	T17/T16	1.00	0.74	0.14	0.00	97.44	97.44	0.00	0.00	0.01	0.00	0.07	0.07	3.30
18	0.11	9.24	T18/T17	0.85	0.00	0.00	0.00	97.44	97.44	0.00	0.00	0.00	0.02	0.07	0.07	3.33
19	0.11	9.28	T19/T18	1.00	0.00	0.00	83.70	97.44	97.44	83.70	0.00	0.00	0.00	0.07	0.07	3.33
20	0.10	9.79	T20/T19	0.95	0.64	0.00	0.00	98.08	97.44	83.70	0.00	0.06	0.00	0.07	0.13	3.33
21	0.10	9.79	T21/T20	1.00	0.00	0.64	0.00	98.09	98.09	83.70	0.06	0.00	0.00	0.13	0.13	3.33
22	0.09	11.34	T22/T21	0.86	0.00	0.00	0.00	98.09	98.09	83.70	0.00	0.00	0.03	0.13	0.13	3.36
23	0.08	11.86	T23/T22	0.96	0.31	0.18	0.00	98.40	98.27	83.70	0.07	0.12	0.00	0.20	0.25	3.36
24	0.08	11.86	T24/T23	1.00	0.18	0.31	0.00	98.58	98.58	83.70	0.12	0.07	0.00	0.31	0.31	3.36
25	0.07	13.52	T25/T24	0.88	0.03	0.05	0.00	98.61	98.63	83.70	4.06	2.05	0.00	4.37	2.37	3.36
26	0.07	13.52	T26/T25	1.00	0.05	0.03	0.00	98.66	98.66	83.70	2.05	4.06	0.00	6.42	6.42	3.36
27	0.07	13.59	T27/T26	0.99	0.00	0.00	0.00	98.66	98.66	83.70	0.00	0.00	0.01	6.42	6.42	3.37
28	0.07	14.29	T28/T27	0.95	0.07	0.27	0.00	98.72	98.93	83.70	0.69	0.16	0.00	7.11	6.59	3.37
29	0.07	14.29	T29/T28	1.00	0.27	0.07	0.00	99.00	99.00	83.70	0.16	0.69	0.00	7.28	7.28	3.37
30	0.06	15.99	T30/T29	0.89	0.00	0.00	0.00	99.00	99.00	83.70	0.00	0.00	0.02	7.28	7.28	3.39

Análisis modal sección Agrietada

Modo	Período	Frecuencia	Relación de periodos	Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
	[s]	[ciclos/s]		x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	2.78	0.36	T_j/T_i	1.06	76.67	0.00	1.06	76.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2.78	0.36	T2/T1	1.00	76.67	1.06	0.00	77.73	77.73	0.00	0.00	0.00	0.00	0.00	0.00
3	1.73	0.58	T3/T2	0.62	0.00	0.00	0.00	77.73	77.73	0.00	0.00	0.00	2.98	0.00	2.98
4	0.89	1.13	T4/T3	0.51	1.68	9.43	0.00	79.41	87.16	0.00	0.00	0.00	0.00	0.00	2.98
5	0.89	1.13	T5/T4	1.00	9.43	1.68	0.00	88.84	88.84	0.00	0.00	0.00	0.00	0.00	2.98
6	0.57	1.75	T6/T5	0.65	0.00	0.00	0.00	88.84	88.84	0.00	0.00	0.00	0.31	0.00	3.30
7	0.49	2.05	T7/T6	0.85	3.39	0.40	0.00	92.22	89.23	0.00	0.00	0.00	0.00	0.01	3.30
8	0.49	2.05	T8/T7	1.00	0.40	3.39	0.00	92.62	92.62	0.00	0.00	0.00	0.01	0.01	3.30

9	0.34	2.98	T9/T8	0.69	0.00	0.00	0.00	92.62	92.62	0.00	0.00	0.00	0.14	0.01	0.01	3.44
10	0.33	3.08	T10/T9	0.97	1.99	0.12	0.00	94.61	92.74	0.00	0.00	0.00	0.00	0.01	0.01	3.44
11	0.33	3.08	T11/T10	1.00	0.12	1.99	0.00	94.73	94.73	0.00	0.00	0.00	0.00	0.01	0.01	3.44
12	0.23	4.27	T12/T11	0.72	0.01	1.36	0.00	94.74	96.09	0.00	0.01	0.00	0.00	0.01	0.01	3.44
13	0.23	4.27	T13/T12	1.00	1.36	0.01	0.00	96.10	96.10	0.00	0.00	0.01	0.00	0.01	0.01	3.44
14	0.23	4.29	T14/T13	1.00	0.00	0.00	0.00	96.10	96.10	0.00	0.00	0.00	0.06	0.01	0.01	3.50
15	0.18	5.65	T15/T14	0.76	0.78	0.20	0.00	96.87	96.30	0.00	0.00	0.00	0.00	0.01	0.01	3.50
16	0.18	5.65	T16/T15	1.00	0.20	0.78	0.00	97.07	97.07	0.00	0.00	0.00	0.00	0.01	0.01	3.50
17	0.17	5.72	T17/T16	0.99	0.00	0.00	0.00	97.07	97.07	0.00	0.00	0.00	0.06	0.01	0.01	3.55
18	0.14	7.22	T18/T17	0.79	0.73	0.00	0.00	97.80	97.07	0.00	0.00	0.01	0.00	0.01	0.03	3.55
19	0.14	7.22	T19/T18	1.00	0.00	0.73	0.00	97.80	97.80	0.00	0.01	0.00	0.00	0.03	0.03	3.55
20	0.14	7.29	T20/T19	0.99	0.00	0.00	0.00	97.80	97.80	0.00	0.00	0.00	0.03	0.03	0.03	3.58
21	0.11	8.99	T21/T20	0.81	0.36	0.20	0.00	98.16	98.00	0.00	0.00	0.01	0.00	0.03	0.03	3.58
22	0.11	8.99	T22/T21	1.00	0.20	0.36	0.00	98.36	98.36	0.00	0.01	0.00	0.00	0.04	0.04	3.58
23	0.11	9.02	T23/T22	1.00	0.00	0.00	0.00	98.36	98.36	0.00	0.00	0.00	0.03	0.04	0.04	3.61
24	0.11	9.26	T24/T23	0.97	0.00	0.00	83.67	98.36	98.36	83.67	0.00	0.00	0.00	0.04	0.04	3.61
25	0.09	10.90	T25/T24	0.85	0.00	0.00	0.00	98.36	98.36	83.67	0.00	0.00	0.02	0.04	0.04	3.63
26	0.09	10.92	T26/T25	1.00	0.32	0.11	0.00	98.69	98.47	83.67	0.08	0.23	0.00	0.11	0.27	3.63
27	0.09	10.92	T27/T26	1.00	0.11	0.32	0.00	98.79	98.79	83.67	0.23	0.08	0.00	0.34	0.34	3.63
28	0.09	11.66	T28/T27	0.94	0.01	0.01	0.00	98.80	98.81	83.67	4.09	3.94	0.00	4.43	4.28	3.63
29	0.09	11.66	T29/T28	1.00	0.01	0.01	0.00	98.82	98.82	83.67	3.94	4.09	0.00	8.37	8.37	3.63
30	0.08	12.94	T30/T29	0.90	0.00	0.00	0.00	98.82	98.82	83.67	0.00	0.00	0.02	8.37	8.37	3.65

MODELO I 20	Análisis modal sección bruta															
	Modo	Período	Frecuencia	Relación de periodos	Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
		[s]	[ciclos/s]		x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	2.60	0.38	T_j/T_i	71.30	3.28	0.00	71.30	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Verificación de flexibilidad	
Altura de las estructuras	56
Periodo fundamental	2.60

2	2.60	0.38	T2/T1	1.00	3.28	71.30	0.00	74.58	74.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	1.67	0.60	T3/T2	0.64	0.00	0.00	0.00	74.58	74.58	0.00	0.00	0.00	2.76	0.00	0.00	2.76
4	0.79	1.26	T4/T3	0.47	1.19	13.42	0.00	75.78	88.01	0.00	0.02	0.00	0.00	0.02	0.01	2.76
5	0.79	1.26	T5/T4	1.00	13.42	1.19	0.00	89.20	89.20	0.00	0.00	0.02	0.00	0.02	0.02	2.76
6	0.55	1.80	T6/T5	0.70	0.00	0.00	0.00	89.20	89.20	0.00	0.00	0.00	0.29	0.02	0.02	3.05
7	0.42	2.38	T7/T6	0.76	0.05	3.79	0.00	89.25	92.99	0.00	0.01	0.00	0.00	0.03	0.02	3.05
8	0.42	2.38	T8/T7	1.00	3.79	0.05	0.00	93.04	93.04	0.00	0.00	0.01	0.00	0.03	0.03	3.05
9	0.33	3.04	T9/T8	0.78	0.00	0.00	0.00	93.04	93.04	0.00	0.00	0.00	0.13	0.03	0.03	3.18
10	0.29	3.47	T10/T9	0.88	0.19	1.80	0.00	93.23	94.84	0.00	0.01	0.00	0.00	0.04	0.03	3.18
11	0.29	3.47	T11/T10	1.00	1.80	0.19	0.00	95.03	95.03	0.00	0.00	0.01	0.00	0.04	0.04	3.18
12	0.23	4.33	T12/T11	0.80	0.00	0.00	0.00	95.03	95.03	0.00	0.00	0.00	0.05	0.04	0.04	3.23
13	0.21	4.67	T13/T12	0.93	0.12	1.08	0.00	95.15	96.11	0.00	0.01	0.00	0.00	0.05	0.04	3.23
14	0.21	4.67	T14/T13	1.00	1.08	0.12	0.00	96.23	96.23	0.00	0.00	0.01	0.00	0.05	0.05	3.23
15	0.18	5.68	T15/T14	0.82	0.00	0.00	0.00	96.23	96.23	0.00	0.00	0.00	0.05	0.05	0.05	3.28
16	0.17	5.94	T16/T15	0.96	0.03	0.82	0.00	96.26	97.05	0.00	0.01	0.00	0.00	0.07	0.05	3.28
17	0.17	5.94	T17/T16	1.00	0.82	0.03	0.00	97.08	97.08	0.00	0.00	0.01	0.00	0.07	0.07	3.28
18	0.14	7.12	T18/T17	0.83	0.00	0.00	0.00	97.08	97.08	0.00	0.00	0.00	0.02	0.07	0.07	3.30
19	0.14	7.33	T19/T18	0.97	0.54	0.08	0.00	97.62	97.16	0.00	0.00	0.03	0.00	0.07	0.09	3.30
20	0.14	7.33	T20/T19	1.00	0.08	0.54	0.00	97.70	97.70	0.00	0.03	0.00	0.00	0.10	0.10	3.30
21	0.13	7.46	T21/T20	0.98	0.00	0.00	83.20	97.70	97.70	83.20	0.00	0.00	0.00	0.10	0.10	3.30
22	0.12	8.66	T22/T21	0.86	0.00	0.00	0.00	97.70	97.70	83.20	0.00	0.00	0.03	0.10	0.10	3.33
23	0.11	8.82	T23/T22	0.98	0.19	0.30	0.00	97.88	98.00	83.20	0.03	0.02	0.00	0.12	0.12	3.33
24	0.11	8.82	T24/T23	1.00	0.30	0.19	0.00	98.18	98.18	83.20	0.02	0.03	0.00	0.14	0.14	3.33
25	0.10	10.29	T25/T24	0.86	0.00	0.00	0.00	98.18	98.18	83.20	0.00	0.00	0.01	0.14	0.14	3.34
26	0.10	10.42	T26/T25	0.99	0.31	0.07	0.00	98.49	98.25	83.20	0.04	0.16	0.00	0.18	0.30	3.34
27	0.10	10.42	T27/T26	1.00	0.07	0.31	0.00	98.56	98.56	83.20	0.16	0.04	0.00	0.34	0.34	3.34
28	0.08	11.89	T28/T27	0.88	0.08	0.09	0.00	98.64	98.65	83.20	1.95	1.68	0.00	2.28	2.01	3.34
29	0.08	11.89	T29/T28	1.00	0.09	0.08	0.00	98.72	98.72	83.20	1.68	1.95	0.00	3.96	3.96	3.34
30	0.08	12.03	T30/T29	0.99	0.00	0.00	0.00	98.72	98.72	83.20	0.00	0.00	0.02	3.96	3.96	3.36

Verificación	21.52
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Periodo admisible aproximado	
Número de pisos	20
factor	0.1
periodo adm	2

31	0.08	12.43	T31/T30	0.97	0.00	0.17	0.00	98.73	98.89	83.20	3.14	0.09	0.00	7.10	4.05	3.36
32	0.08	12.43	T32/T31	1.00	0.17	0.00	0.00	98.89	98.89	83.20	0.09	3.14	0.00	7.19	7.19	3.36
33	0.07	13.87	T33/T32	0.90	0.00	0.00	0.00	98.89	98.89	83.20	0.00	0.00	0.01	7.19	7.19	3.37
34	0.07	14.05	T34/T33	0.99	0.24	0.01	0.00	99.14	98.90	83.20	0.00	0.09	0.00	7.20	7.28	3.37
35	0.07	14.05	T35/T34	1.00	0.01	0.24	0.00	99.15	99.15	83.20	0.09	0.00	0.00	7.29	7.29	3.37

Análisis modal sección Agrietada

Modo	Período	Frecuencia	Relación de periodos	Participación de masa (Traslacional)			Sum de masa (Traslacional)			Participación de masa (Rotacional)			Sum de masa (Rotacional)		
	[s]	[ciclos/s]		x [%]	y [%]	z [%]	Sum x	Sum y	Sum z	x [%]	y [%]	z [%]	Sum x	Sum y	Sum z
1	3.62	0.28	T_j/T_i	76.94	0.05	0.00	76.94	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	3.62	0.28	T2/T1	1.00	0.05	76.94	0.00	76.98	76.98	0.00	0.00	0.00	0.00	0.00	0.00
3	2.17	0.46	T3/T2	0.60	0.00	0.00	0.00	76.98	76.98	0.00	0.00	0.00	2.97	0.00	2.97
4	1.15	0.87	T4/T3	0.53	11.77	0.02	0.00	88.75	77.01	0.00	0.00	0.01	0.00	0.00	2.97
5	1.15	0.87	T5/T4	1.00	0.02	11.77	0.00	88.78	88.78	0.00	0.01	0.00	0.00	0.01	2.97
6	0.72	1.39	T6/T5	0.63	0.00	0.00	0.00	88.78	88.78	0.00	0.00	0.00	0.31	0.01	3.28
7	0.63	1.58	T7/T6	0.88	3.67	0.03	0.00	92.45	88.81	0.00	0.00	0.00	0.00	0.01	3.28
8	0.63	1.58	T8/T7	1.00	0.03	3.67	0.00	92.48	92.48	0.00	0.00	0.00	0.00	0.01	3.28
9	0.43	2.33	T9/T8	0.68	2.01	0.00	0.00	94.49	92.49	0.00	0.00	0.00	0.00	0.01	3.28
10	0.43	2.33	T10/T9	1.00	0.00	2.01	0.00	94.50	94.50	0.00	0.00	0.00	0.00	0.01	3.28
11	0.43	2.35	T11/T10	0.99	0.00	0.00	0.00	94.50	94.50	0.00	0.00	0.00	0.14	0.01	3.42
12	0.31	3.19	T12/T11	0.74	1.25	0.03	0.00	95.75	94.53	0.00	0.00	0.00	0.00	0.01	3.42
13	0.31	3.19	T13/T12	1.00	0.03	1.25	0.00	95.78	95.78	0.00	0.00	0.00	0.00	0.02	3.42
14	0.30	3.36	T14/T13	0.95	0.00	0.00	0.00	95.78	95.78	0.00	0.00	0.00	0.06	0.02	3.48
15	0.24	4.15	T15/T14	0.81	0.90	0.01	0.00	96.68	95.79	0.00	0.00	0.00	0.00	0.02	3.48
16	0.24	4.15	T16/T15	1.00	0.01	0.90	0.00	96.69	96.69	0.00	0.00	0.00	0.00	0.02	3.48
17	0.23	4.43	T17/T16	0.94	0.00	0.00	0.00	96.69	96.69	0.00	0.00	0.00	0.05	0.02	3.53
18	0.19	5.23	T18/T17	0.85	0.68	0.00	0.00	97.38	96.70	0.00	0.00	0.01	0.00	0.02	3.53
19	0.19	5.23	T19/T18	1.00	0.00	0.68	0.00	97.38	97.38	0.00	0.01	0.00	0.00	0.03	3.53
20	0.18	5.57	T20/T19	0.94	0.00	0.00	0.00	97.38	97.38	0.00	0.00	0.00	0.03	0.03	3.55

21	0.16	6.43	T21/T 20	0.87	0.45	0.08	0.00	97.83	97.47	0.00	0.00	0.01	0.00	0.03	0.04	3.55
22	0.16	6.43	T22/T 21	1.00	0.08	0.45	0.00	97.92	97.92	0.00	0.01	0.00	0.00	0.04	0.04	3.55
23	0.15	6.81	T23/T 22	0.94	0.00	0.00	0.00	97.92	97.92	0.00	0.00	0.00	0.03	0.04	0.04	3.58
24	0.13	7.45	T24/T 23	0.91	0.00	0.00	83.19	97.92	97.92	83.19	0.00	0.00	0.00	0.04	0.04	3.58
25	0.13	7.76	T25/T 24	0.96	0.37	0.06	0.00	98.29	97.98	83.19	0.01	0.04	0.00	0.04	0.08	3.58
26	0.13	7.76	T26/T 25	1.00	0.06	0.37	0.00	98.35	98.35	83.19	0.04	0.01	0.00	0.08	0.08	3.58
27	0.12	8.15	T27/T 26	0.95	0.00	0.00	0.00	98.35	98.35	83.19	0.00	0.00	0.01	0.08	0.08	3.60
28	0.11	9.20	T28/T 27	0.89	0.33	0.01	0.00	98.68	98.36	83.19	0.01	0.23	0.00	0.09	0.32	3.60
29	0.11	9.20	T29/T 28	1.00	0.01	0.33	0.00	98.69	98.69	83.19	0.23	0.01	0.00	0.32	0.32	3.60
30	0.10	9.59	T30/T 29	0.96	0.00	0.00	0.00	98.69	98.69	83.19	0.00	0.00	0.02	0.32	0.32	3.62
31	0.10	9.94	T31/T 30	0.97	0.01	0.01	0.00	98.70	98.70	83.19	2.87	5.08	0.00	3.20	5.40	3.62
32	0.10	9.94	T32/T 31	1.00	0.01	0.01	0.00	98.71	98.71	83.19	5.08	2.87	0.00	8.27	8.27	3.62
33	0.09	10.81	T33/T 32	0.92	0.25	0.04	0.00	98.96	98.75	83.19	0.02	0.12	0.00	8.29	8.40	3.62
34	0.09	10.81	T34/T 33	1.00	0.04	0.25	0.00	98.99	98.99	83.19	0.12	0.02	0.00	8.42	8.42	3.62
35	0.09	11.14	T35/T 34	0.97	0.00	0.00	0.00	98.99	98.99	83.19	0.00	0.00	0.01	8.42	8.42	3.63

A-5. Resultados de derivas de piso por modelo.

MODELO B 2NIVELES	Chequeo de derivas en sección bruta				
	Nodos	piso	ΔX [m]	deriva	% de H
	X	2	0		
X	4	1	0.008	0.008	0.28%
X	6	2	0.018	0.010	0.37%
Y	2	0	0.000	0.000	0.00%
Y	4	1	0.008	0.008	0.28%
Y	6	2	0.018	0.010	0.37%

Chequeo de derivas en sección agrietada					
Nodos	piso	ΔX [m]	deriva	% de H	
X	2	0			0.000
X	4	1	0.014	0.014	0.50%
X	6	2	0.036	0.022	0.78%
Y	2	0	0.000	0.000	0.00%
Y	4	1	0.014	0.014	0.50%
Y	6	2	0.036	0.022	0.78%

MODELO C 4NIVELES	Chequeo de derivas en sección bruta				
	Nodos	piso	ΔX [m]	deriva	% de H
	X	2	0		
4		1	0.0118	0.0118	0.42%
6		2	0.0313	0.0194	0.69%
15		3	0.04825	0.0170	0.61%
18		4	0.05933	0.0111	0.40%
Y	2	0	0.0000	0.0000	0.00%
	4	1	0.0118	0.0118	0.42%
	6	2	0.0313	0.0194	0.69%
	15	3	0.04825	0.0170	0.61%
	18	4	0.05933	0.0111	0.40%

Chequeo de derivas en sección agrietada					
Nodos	piso	ΔX [m]	deriva	% de H	
X	2	0			
	4	1	0.020	0.0203	0.73%
	6	2	0.058	0.0373	1.33%
	15	3	0.093	0.0354	1.27%
	18	4	0.119	0.0261	0.93%
Y	2	0	0.000	0.0000	0.00%
	4	1	0.020	0.0203	0.73%
	6	2	0.058	0.0373	1.33%
	15	3	0.093	0.0354	1.27%
	18	4	0.119	0.0261	0.93%

MODELO D 6NIVELES	Chequeo de derivas en sección bruta				
	Nodos	piso	ΔX [m]	deriva	% de H
	X	2	0		
4		1	0.0123	0.0123	0.44%
6		2	0.0333	0.0210	0.75%
15		3	0.0543	0.0210	0.75%
18		4	0.0722	0.0179	0.64%
25		5	0.0855	0.0133	0.48%
28		6	0.0938	0.0083	0.30%
Y	2	0	0.0000	0.0000	0.00%
	4	1	0.0123	0.0123	0.44%
	6	2	0.0333	0.0210	0.75%
	15	3	0.0543	0.0210	0.75%
	18	4	0.0722	0.0179	0.64%
	25	5	0.0855	0.0133	0.48%
	28	6	0.0938	0.0083	0.30%

Chequeo de derivas en sección agrietada					
Nodos	piso	ΔX [m]	deriva	% de H	
X	2	0			
	4	1	0.017	0.0170	0.61%
	6	2	0.049	0.0324	1.16%
	15	3	0.083	0.0340	1.22%
	18	4	0.113	0.0298	1.06%
	25	5	0.136	0.0227	0.81%
	28	6	0.151	0.0152	0.54%
Y	2	0	0.000	0.0000	0.00%
	4	1	0.017	0.0170	0.61%
	6	2	0.049	0.0324	1.16%
	15	3	0.083	0.0340	1.22%
	18	4	0.113	0.0298	1.06%
	25	5	0.136	0.0227	0.81%
	28	6	0.151	0.0152	0.54%

		Chequeo de derivas en sección bruta				
		Nodos	piso	ΔX [m]	deriva	% de H
MODELO E 8NIVELES	X	2	0	0.0000		
		4	1	0.0112	0.0112	0.40%
		6	2	0.0308	0.0196	0.70%
		15	3	0.0515	0.0207	0.74%
		18	4	0.0709	0.0195	0.70%
		25	5	0.0881	0.0172	0.61%
		28	6	0.1022	0.0141	0.50%
		32	7	0.1128	0.0106	0.38%
	36	8	0.1198	0.0070	0.25%	
	Y	2	0	0.0000	0.0000	0.00%
		4	1	0.0112	0.0112	0.40%
		6	2	0.0308	0.0196	0.70%
		15	3	0.0515	0.0207	0.74%
		18	4	0.0709	0.0195	0.70%
		25	5	0.0881	0.0172	0.61%
		28	6	0.1022	0.0141	0.50%
32		7	0.1128	0.0106	0.38%	
36	8	0.1198	0.0070	0.25%		

		Chequeo de derivas en sección agrietada				
		Nodos	piso	ΔX [m]	deriva	% de H
	X	2	0	0.000		
		4	1	0.015	0.0148	0.53%
		6	2	0.043	0.0287	1.02%
		15	3	0.075	0.0316	1.13%
		18	4	0.105	0.0301	1.07%
		25	5	0.132	0.0264	0.94%
		28	6	0.153	0.0216	0.77%
		32	7	0.169	0.0161	0.57%
	36	8	0.180	0.0108	0.39%	
	Y	2	0	0.000	0.0000	0.00%
		4	1	0.015	0.0148	0.53%
		6	2	0.043	0.0287	1.02%
		15	3	0.075	0.0316	1.13%
		18	4	0.105	0.0301	1.07%
		25	5	0.132	0.0264	0.94%
		28	6	0.153	0.0216	0.77%
32		7	0.169	0.0161	0.57%	
36	8	0.180	0.0108	0.39%		

		Chequeo de derivas en sección bruta				
		Nodos	piso	ΔX [m]	deriva	% de H
MODELO F 12NIVELES	X	2	0	0.0000		
		4	1	0.0095	0.0095	0.34%
		6	2	0.0265	0.0170	0.61%
		15	3	0.0454	0.0188	0.67%
		18	4	0.0643	0.0190	0.68%

		Chequeo de derivas en sección agrietada				
		Nodos	piso	ΔX [m]	deriva	% de H
	X	2	0	0.000		
		4	1	0.013	0.0130	0.47%
		6	2	0.039	0.0257	0.92%
		15	3	0.068	0.0293	1.05%
		18	4	0.097	0.0295	1.05%

Y	25	5	0.0828	0.0185	0.66%
	28	6	0.1005	0.0177	0.63%
	32	7	0.1170	0.0165	0.59%
	36	8	0.1322	0.0151	0.54%
	40	9	0.1456	0.0135	0.48%
	44	10	0.1572	0.0116	0.41%
	48	11	0.1667	0.0095	0.34%
	52	12	0.1741	0.0074	0.26%
	2	0	0.0000	0.0000	0.00%
	4	1	0.0095	0.0095	0.34%
	6	2	0.0265	0.0170	0.61%
	15	3	0.0454	0.0188	0.67%
	18	4	0.0643	0.0190	0.68%
	25	5	0.0828	0.0185	0.66%
	28	6	0.1005	0.0177	0.63%
	32	7	0.1170	0.0165	0.59%
	36	8	0.1322	0.0151	0.54%
	40	9	0.1456	0.0135	0.48%
	44	10	0.1572	0.0116	0.41%
	48	11	0.1667	0.0095	0.34%
	52	12	0.1741	0.0074	0.26%

Y	25	5	0.126	0.0282	1.01%
	28	6	0.152	0.0263	0.94%
	32	7	0.176	0.0240	0.86%
	36	8	0.197	0.0214	0.76%
	40	9	0.216	0.0185	0.66%
	44	10	0.231	0.0153	0.55%
	48	11	0.243	0.0119	0.42%
	52	12	0.252	0.0087	0.31%
	2	0	0.000	0.0000	0.00%
	4	1	0.013	0.0130	0.47%
	6	2	0.039	0.0257	0.92%
	15	3	0.068	0.0293	1.05%
	18	4	0.097	0.0295	1.05%
	25	5	0.126	0.0282	1.01%
	28	6	0.152	0.0263	0.94%
	32	7	0.176	0.0240	0.86%
	36	8	0.197	0.0214	0.76%
	40	9	0.216	0.0185	0.66%
	44	10	0.231	0.0153	0.55%
	48	11	0.243	0.0119	0.42%
	52	12	0.252	0.0087	0.31%

MODELO G 14 NIVELES	Chequeo de derivas en sección bruta					
	Nodos	piso	ΔX [m]	deriva	% de H	
	X	2	0			0.0000
		4	1	0.0094	0.0094	0.33%
		6	2	0.0263	0.0169	0.60%
		15	3	0.0451	0.0188	0.67%
18		4	0.0643	0.0192	0.69%	

MODELO G 14 NIVELES	Chequeo de derivas en sección agrietada					
	Nodos	piso	ΔX [m]	deriva	% de H	
	X	2	0			0.0000
		4	1	0.0131	0.0131	0.47%
		6	2	0.0391	0.0260	0.93%
		15	3	0.0689	0.0298	1.06%
18		4	0.0991	0.0302	1.08%	

MODELO H 16 NIVELES	Y	25	5	0.0834	0.0191	0.68%
		28	6	0.1021	0.0187	0.67%
		32	7	0.1201	0.0180	0.64%
		36	8	0.1373	0.0172	0.61%
		40	9	0.1535	0.0162	0.58%
		44	10	0.1685	0.0150	0.54%
		48	11	0.1821	0.0136	0.48%
		52	12	0.1940	0.0120	0.43%
		56	13	0.2042	0.0102	0.36%
		60	14	0.2126	0.0084	0.30%
	2	0	0.0000	0.0000	0.00%	
	4	1	0.0094	0.0094	0.33%	
	6	2	0.0263	0.0169	0.60%	
	15	3	0.0451	0.0188	0.67%	
	18	4	0.0643	0.0192	0.69%	
	25	5	0.0834	0.0191	0.68%	
	28	6	0.1021	0.0187	0.67%	
	32	7	0.1201	0.0180	0.64%	
	36	8	0.1373	0.0172	0.61%	
	40	9	0.1535	0.0162	0.58%	
	44	10	0.1685	0.0150	0.54%	
	48	11	0.1821	0.0136	0.48%	
	52	12	0.1940	0.0120	0.43%	
	56	13	0.2042	0.0102	0.36%	
	60	14	0.2126	0.0084	0.30%	

MODELO H 16 NIVELES	Y	25	5	0.1285	0.0293	1.05%
		28	6	0.1563	0.0278	0.99%
		32	7	0.1824	0.0261	0.93%
		36	8	0.2066	0.0242	0.87%
		40	9	0.2288	0.0222	0.79%
		44	10	0.2488	0.0200	0.71%
		48	11	0.2663	0.0175	0.62%
		52	12	0.2810	0.0147	0.53%
		56	13	0.2928	0.0118	0.42%
		60	14	0.3018	0.0090	0.32%
	2	0	0.000	0.0000	0.00%	
	4	1	0.013	0.0131	0.47%	
	6	2	0.039	0.0260	0.93%	
	15	3	0.069	0.0298	1.06%	
	18	4	0.099	0.0302	1.08%	
	25	5	0.128	0.0293	1.05%	
	28	6	0.156	0.0278	0.99%	
	32	7	0.182	0.0261	0.93%	
	36	8	0.207	0.0242	0.87%	
	40	9	0.229	0.0222	0.79%	
	44	10	0.249	0.0200	0.71%	
	48	11	0.266	0.0175	0.62%	
	52	12	0.281	0.0147	0.53%	
	56	13	0.293	0.0118	0.42%	
	60	14	0.302	0.0090	0.32%	

MODELO H 16 NIVELES	Chequeo de derivas en sección bruta				
	Nodos	piso	ΔX [m]	deriva	% de H
	X	2	0		

MODELO H 16 NIVELES	Chequeo de derivas en sección agrietada				
	Nodos	piso	ΔX [m]	deriva	% de H
	X	2	0		

	4	1	0.0093	0.0093	0.33%
	6	2	0.0261	0.0168	0.60%
	15	3	0.0449	0.0188	0.67%
	18	4	0.0643	0.0194	0.69%
	25	5	0.0837	0.0195	0.69%
	28	6	0.1030	0.0193	0.69%
	32	7	0.1219	0.0189	0.68%
	36	8	0.1404	0.0185	0.66%
	40	9	0.1583	0.0179	0.64%
	44	10	0.1755	0.0172	0.61%
	48	11	0.1918	0.0163	0.58%
	52	12	0.2071	0.0153	0.55%
	56	13	0.2212	0.0141	0.50%
	60	14	0.2339	0.0127	0.45%
	64	15	0.2451	0.0112	0.40%
	68	15	0.2547	0.0096	0.34%
Y	2	0	0.0000	0.0000	0.00%
	4	1	0.0093	0.0093	0.33%
	6	2	0.0261	0.0168	0.60%
	15	3	0.0449	0.0188	0.67%
	18	4	0.0643	0.0194	0.69%
	25	5	0.0837	0.0195	0.69%
	28	6	0.1030	0.0193	0.69%
	32	7	0.1219	0.0189	0.68%
	36	8	0.1404	0.0185	0.66%
	40	9	0.1583	0.0179	0.64%
	44	10	0.1755	0.0172	0.61%
	48	11	0.1918	0.0163	0.58%
	52	12	0.2071	0.0153	0.55%

	4	1	0.013	0.0132	0.47%
	6	2	0.039	0.0262	0.94%
	15	3	0.070	0.0302	1.08%
	18	4	0.100	0.0308	1.10%
	25	5	0.131	0.0302	1.08%
	28	6	0.160	0.0290	1.03%
	32	7	0.187	0.0276	0.98%
	36	8	0.213	0.0261	0.93%
	40	9	0.238	0.0245	0.88%
	44	10	0.261	0.0229	0.82%
	48	11	0.282	0.0212	0.76%
	52	12	0.301	0.0193	0.69%
	56	13	0.318	0.0171	0.61%
	60	14	0.333	0.0147	0.53%
	64	15	0.345	0.0121	0.43%
	68	15	0.355	0.0096	0.34%
Y	2	0	0.0000	0.0000	0.00%
	4	1	0.0132	0.0132	0.47%
	6	2	0.0394	0.0262	0.94%
	15	3	0.0696	0.0302	1.08%
	18	4	0.1005	0.0308	1.10%
	25	5	0.1306	0.0302	1.08%
	28	6	0.1596	0.0290	1.03%
	32	7	0.1871	0.0276	0.98%
	36	8	0.2132	0.0261	0.93%
	40	9	0.2377	0.0245	0.88%
	44	10	0.2606	0.0229	0.82%
	48	11	0.2818	0.0212	0.76%
	52	12	0.3011	0.0193	0.69%

56	13	0.2212	0.0141	0.50%
60	14	0.2339	0.0127	0.45%
64	15	0.2451	0.0112	0.40%
68	16	0.2547	0.0096	0.34%

56	13	0.3182	0.0171	0.61%
60	14	0.3329	0.0147	0.53%
64	15	0.3450	0.0121	0.43%
68	16	0.3546	0.0096	0.34%

						Chequeo de derivas en sección bruta				
						Nodos	piso	ΔX [m]	deriva	% de H
MODELO I 20 NIVELES	X	2	0	0.0000						
		4	1	0.0093	0.0093	0.33%				
		6	2	0.0261	0.0169	0.60%				
		15	3	0.0451	0.0190	0.68%				
		18	4	0.0649	0.0197	0.70%				
		25	5	0.0848	0.0200	0.71%				
		28	6	0.1049	0.0200	0.72%				
		32	7	0.1248	0.0200	0.71%				
		36	8	0.1446	0.0198	0.71%				
		40	9	0.1643	0.0197	0.70%				
		44	10	0.1838	0.0195	0.69%				
		48	11	0.2030	0.0192	0.69%				
		52	12	0.2219	0.0190	0.68%				
		56	13	0.2406	0.0186	0.66%				
		60	14	0.2587	0.0182	0.65%				
		64	15	0.2764	0.0176	0.63%				
		68	16	0.2933	0.0169	0.61%				
		72	17	0.3094	0.0161	0.57%				
		76	18	0.3244	0.0150	0.54%				
		80	19	0.3383	0.0138	0.49%				
84	20	0.3509	0.0126	0.45%						
	Y	2	0	0.0000	0.0000	0.00%				

						Chequeo de derivas en sección agrietada				
						Nodos	piso	ΔX [m]	deriva	% de H
MODELO I 20 NIVELES	X	2	0	0.000						
		4	1	0.013	0.0130	0.46%				
		6	2	0.039	0.0260	0.93%				
		15	3	0.069	0.0302	1.08%				
		18	4	0.100	0.0313	1.12%				
		25	5	0.132	0.0311	1.11%				
		28	6	0.162	0.0305	1.09%				
		32	7	0.192	0.0296	1.06%				
		36	8	0.220	0.0287	1.03%				
		40	9	0.248	0.0278	0.99%				
		44	10	0.275	0.0268	0.96%				
		48	11	0.301	0.0257	0.92%				
		52	12	0.325	0.0247	0.88%				
		56	13	0.349	0.0235	0.84%				
		60	14	0.371	0.0222	0.79%				
		64	15	0.392	0.0208	0.74%				
		68	16	0.411	0.0192	0.69%				
		72	17	0.428	0.0174	0.62%				
		76	18	0.444	0.0154	0.55%				
		80	19	0.457	0.0133	0.48%				
84	20	0.469	0.0114	0.41%						
	Y	2	0	0.0000	0.0000	0.00%				

4	1	0.0093	0.0093	0.33%
6	2	0.0261	0.0169	0.60%
15	3	0.0451	0.0190	0.68%
18	4	0.0649	0.0197	0.70%
25	5	0.0848	0.0200	0.71%
28	6	0.1049	0.0200	0.72%
32	7	0.1248	0.0200	0.71%
36	8	0.1446	0.0198	0.71%
40	9	0.1643	0.0197	0.70%
44	10	0.1838	0.0195	0.69%
48	11	0.2030	0.0192	0.69%
52	12	0.2219	0.0190	0.68%
56	13	0.2406	0.0186	0.66%
60	14	0.2587	0.0182	0.65%
64	15	0.2764	0.0176	0.63%
68	16	0.2933	0.0169	0.61%
72	17	0.3094	0.0161	0.57%
76	18	0.3244	0.0150	0.54%
80	19	0.3383	0.0138	0.49%
84	20	0.3509	0.0126	0.45%

4	1	0.0130	0.0130	0.46%
6	2	0.0390	0.0260	0.93%
15	3	0.0692	0.0302	1.08%
18	4	0.1005	0.0313	1.12%
25	5	0.1316	0.0311	1.11%
28	6	0.1620	0.0305	1.09%
32	7	0.1916	0.0296	1.06%
36	8	0.2204	0.0287	1.03%
40	9	0.2481	0.0278	0.99%
44	10	0.2749	0.0268	0.96%
48	11	0.3006	0.0257	0.92%
52	12	0.3253	0.0247	0.88%
56	13	0.3488	0.0235	0.84%
60	14	0.3710	0.0222	0.79%
64	15	0.3918	0.0208	0.74%
68	16	0.4111	0.0192	0.69%
72	17	0.4285	0.0174	0.62%
76	18	0.4439	0.0154	0.55%
80	19	0.4573	0.0133	0.48%
84	20	0.4686	0.0114	0.41%

A-6. Análisis por Fuerza Horizontal Equivalente (FHE).

a. Masa por nivel de piso por modelo

Cálculo de masa/peso por nivel de piso [kN]								
Calculo	Modelos							
	MB2N	MC4N	MD6N	ME8N	MF12N	MG14N	MH16N	MI20N
Área de losa [m2]	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
Pp obre losa [kN/m2]	4.35	5.09	5.60	6.45	7.36	7.36	7.36	7.36
CP sobre losa [kN/m2]	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
L sobre losa [kN/m2]	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
Peso de losa por piso [kN]	401.40	427.92	446.49	476.88	509.69	509.69	509.69	509.69
Área de columnas [m2]	0.16	0.20	0.25	0.30	0.36	0.36	0.36	0.36
Pp Columnas primer nivel [kN]	21.50	27.22	33.60	40.66	48.38	48.38	48.38	48.38
Pp columnas niveles intermedios [kN]	43.01	54.43	67.20	81.31	96.77	96.77	96.77	96.77
Pp columnas último nivel [kN]	21.50	27.22	33.60	40.66	48.38	48.38	48.38	48.38
Cantidad de columnas por nivel	4	4	4	4	4	4	4	4
Cantidad de niveles del modelo	2	4	6	8	12	14	16	18
Peso de losa total [kN]	802.80	1711.68	2678.94	3815.04	6116.33	7135.72	8155.10	10193.88
Peso total de columnas [kN]	86.02	217.73	403.20	650.50	1161.22	1354.75	1548.29	1935.36
Peso primer nivel	21.50	27.22	33.60	40.66	48.38	48.38	48.38	48.38
Peso niveles intermedios	444.41	482.35	513.69	558.19	606.46	606.46	606.46	606.46
Peso último nivel	422.90	455.14	480.09	517.54	558.08	558.08	558.08	558.08
Peso total estructura	888.82	1929.41	3082.14	4465.54	7277.54	8490.47	9703.39	12129.24

b. Cortante en la base por método de FHE

Procedimiento de análisis de la Fuerza Horizontal Equivalente por modelo							
Modelo	Coef K	Nivel	h_x [m]	W_x [kN]	$W_x h_x^k$ [kN.M]	C_{vx}	F_x [kN]
Modelo B 2 niveles	1	2	5.60	422.90	2368.26	0.66	262.20
		1	2.80	444.41	1244.34	0.34	137.77

Procedimiento de análisis de la Fuerza Horizontal Equivalente por modelo							
Modelo	Coef K	Nivel	h_x [m]	W_x [kN]	$W_x h_x^k$ [kN.M]	C_{vx}	F_x [kN]
		0	0.00	21.50	0.00	0.00	0.00
		sumatoria	8.40	888.82	3612.60	1.00	399.97
Modelo C 4 niveles	1.07	4	11.20	455.14	6042.60	0.40	344.01
		3	8.40	482.35	4706.66	0.31	267.95
		2	5.60	482.35	3049.47	0.20	173.61
		1	2.80	482.35	1452.12	0.10	82.67
		0	0.00	27.22	0.00	0.00	0.00
		sumatoria	28.00	1929.41	15250.85	1.00	868.23
Modelo D 6 niveles	1.15	6	16.80	480.09	12388.01	0.29	401.21
		5	14.00	513.69	10743.73	0.25	347.96
		4	11.20	513.69	8308.17	0.19	269.08
		3	8.40	513.69	5964.35	0.14	193.17
		2	5.60	513.69	3738.42	0.09	121.08
		1	2.80	513.69	1682.18	0.04	54.48
		0	0.00	33.60	0.00	0.00	0.00
		sumatoria	58.80	3082.14	42824.86	1.00	1386.96
Modelo E 8 niveles	1.23	8	22.40	517.54	23703.54	0.23	463.08
		7	19.60	558.19	21693.18	0.21	423.80
		6	16.80	558.19	17946.32	0.17	350.60
		5	14.00	558.19	14340.97	0.14	280.17
		4	11.20	558.19	10898.69	0.11	212.92
		3	8.40	558.19	7650.56	0.07	149.46
		2	5.60	558.19	4646.14	0.05	90.77
		1	2.80	558.19	1980.66	0.02	38.69
		0	0.00	40.66	0.00	0.00	0.00
		sumatoria	100.80	4465.54	102860.05	1.00	2009.49
	1.43	12	33.60	558.08	84958.62	0.17	436.67

Procedimiento de análisis de la Fuerza Horizontal Equivalente por modelo								
Modelo	Coef K	Nivel	h_x [m]	W_x [kN]	$W_x h_x^k$ [kN.M]	C_{vx}	F_x [kN]	
Modelo E 12 niveles		11	30.80	606.46	81523.40	0.16	419.01	
		10	28.00	606.46	71136.89	0.14	365.63	
		9	25.20	606.46	61188.00	0.12	314.49	
		8	22.40	606.46	51703.89	0.10	265.75	
		7	19.60	606.46	42716.98	0.09	219.56	
		6	16.80	606.46	34266.78	0.07	176.12	
		5	14.00	606.46	26402.93	0.05	135.71	
		4	11.20	606.46	19190.24	0.04	98.63	
		3	8.40	606.46	12718.34	0.03	65.37	
		2	5.60	606.46	7122.59	0.01	36.61	
		1	2.80	606.46	2643.59	0.01	13.59	
		0	0.00	48.38	0.00	0.00	0.00	0.00
		sumatoria		218.40	7277.54	495572.24	1.00	2547.14
Modelo G 14 niveles	1.57	14	39.20	558.08	176781.60	0.16	398.79	
		13	36.40	606.46	171013.45	0.15	385.77	
		12	33.60	606.46	150823.64	0.13	340.23	
		11	30.80	606.46	131570.45	0.12	296.80	
		10	28.00	606.46	113289.71	0.10	255.56	
		9	25.20	606.46	96022.24	0.09	216.61	
		8	22.40	606.46	79815.16	0.07	180.05	
		7	19.60	606.46	64723.82	0.06	146.00	
		6	16.80	606.46	50814.51	0.05	114.63	
		5	14.00	606.46	38168.83	0.03	86.10	
		4	11.20	606.46	26890.80	0.02	60.66	
		3	8.40	606.46	17120.09	0.02	38.62	
		2	5.60	606.46	9059.87	0.01	20.44	
		1	2.80	606.46	3052.39	0.00	6.89	

Procedimiento de análisis de la Fuerza Horizontal Equivalente por modelo							
Modelo	Coef K	Nivel	h_x [m]	W_x [kN]	$W_x h_x^k$ [kN.M]	C_{vx}	F_x [kN]
		0	0.00	48.38	0.00	0.00	0.00
		sumatoria	294.00	8490.47	1129146.56	1.00	2547.14
Modelo H 16 niveles	1.72	16	44.80	558.08	384879.14	0.15	381.86
		15	42.00	606.46	374326.25	0.14	371.39
		14	39.20	606.46	332462.00	0.13	329.86
		13	36.40	606.46	292694.75	0.11	290.40
		12	33.60	606.46	255068.68	0.10	253.07
		11	30.80	606.46	219632.55	0.08	217.91
		10	28.00	606.46	186440.65	0.07	184.98
		9	25.20	606.46	155554.00	0.06	154.34
		8	22.40	606.46	127042.04	0.05	126.05
		7	19.60	606.46	100984.89	0.04	100.19
		6	16.80	606.46	77476.77	0.03	76.87
		5	14.00	606.46	56631.10	0.02	56.19
		4	11.20	606.46	38588.85	0.01	38.29
		3	8.40	606.46	23533.47	0.01	23.35
		2	5.60	606.46	11721.31	0.00	11.63
		1	2.80	606.46	3560.33	0.00	3.53
		0	0.00	48.38	0.00	0.00	0.00
		sumatoria	380.80	9703.39	2640596.77	1.00	2619.92
Modelo I 20 niveles	2	20	56.00	558.08	1750132.61	0.13	251.70
		19	53.20	606.46	1716433.01	0.13	246.85
		18	50.40	606.46	1540510.51	0.11	221.55
		17	47.60	606.46	1374097.34	0.10	197.62
		16	44.80	606.46	1217193.49	0.09	175.05
		15	42.00	606.46	1069798.97	0.08	153.85
		14	39.20	606.46	931913.77	0.07	134.02

Procedimiento de análisis de la Fuerza Horizontal Equivalente por modelo							
Modelo	Coef K	Nivel	h_x [m]	W_x [kN]	$W_x h_x^k$ [kN.M]	C_{vx}	F_x [kN]
		13	36.40	606.46	803537.89	0.06	115.56
		12	33.60	606.46	684671.34	0.05	98.47
		11	30.80	606.46	575314.11	0.04	82.74
		10	28.00	606.46	475466.21	0.04	68.38
		9	25.20	606.46	385127.63	0.03	55.39
		8	22.40	606.46	304298.37	0.02	43.76
		7	19.60	606.46	232978.44	0.02	33.51
		6	16.80	606.46	171167.83	0.01	24.62
		5	14.00	606.46	118866.55	0.01	17.09
		4	11.20	606.46	76074.59	0.01	10.94
		3	8.40	606.46	42791.96	0.00	6.15
		2	5.60	606.46	19018.65	0.00	2.74
		1	2.80	606.46	4754.66	0.00	0.68
		0	0.00	48.38	0.00	0.00	0.00
		sumatoria	380.80	12129.24	13494147.95	1.00	1940.68

A-7. Resultado de diseño en elementos viga por modelo

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N° Barra	Ab [mm ²]	cantidad	As' [mm ²]	N° Barra	Ab [mm ²]	cantidad	As [mm ²]	N° Barra	Ab [mm ²]	cantidad	As [mm ²]	s [mm]		
0.30x0.40		Modelo MB2N														
Piso 1	3	Extremos i-j	N°4	127	5	633.38	N°4	127	2	253.35	N°3	71	2	142.51	170	0.0084
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	170	0.0060
	9	Extremos i-j	N°4	127	5	633.38	N°4	127	2	253.35	N°3	71	2	142.51	170	0.0084
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	170	0.0060

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s		
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]		
	13	Extremos i-j	N°4	127	5	633.38	N°4	127	2	253.35	N°3	71	2	142.51	170	0.0084
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	170	0.0060
	15	Extremos i-j	N°4	127	5	633.38	N°4	127	2	253.35	N°3	71	2	142.51	170	0.0084
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	170	0.0060
Piso 2	6	Extremos i-j	N°5	198	3	593.80	N°4	127	2	253.35	N°3	71	2	142.51	170	0.0081
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	170	0.0060
	12	Extremos i-j	N°5	198	3	593.80	N°4	127	2	253.35	N°3	71	2	142.51	170	0.0081
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	170	0.0060
	14	Extremos i-j	N°5	198	3	593.80	N°4	127	2	253.35	N°3	71	2	142.51	170	0.0081
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	170	0.0060
	16	Extremos i-j	N°5	198	3	593.80	N°4	127	2	253.35	N°3	71	2	142.51	170	0.0081
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	170	0.0060
0.35x0.45		Modelo MC4N														
Piso 1	3	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
	9	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
	13	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
	15	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
Piso 2	6	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
	12	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
	14	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s		
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]		
16	centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045	
	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083	
	centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045	
Piso 3	31	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
	32	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
	33	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
	34	Extremos i-j	N°7	388	2	775.90	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0083
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
Piso 4	35	Extremos i-j	N°5	198	3	593.80	N°4	127	2	253.35	N°3	71	2	142.51	200	0.0061
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
	36	Extremos i-j	N°5	198	3	593.80	N°4	127	2	253.35	N°3	71	2	142.51	200	0.0061
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
	37	Extremos i-j	N°5	198	3	593.80	N°4	127	2	253.35	N°3	71	2	142.51	200	0.0061
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
	38	Extremos i-j	N°5	198	3	593.80	N°4	127	2	253.35	N°3	71	2	142.51	200	0.0061
		centro	N°4	127	2	253.35	N°4	127	3	380.03	N°3	71	2	142.51	200	0.0045
0.45x0.50		Modelo MD6N														
Piso 1	3	Extremos i-j	N°5	198	5	989.66	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0074
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
	9	Extremos i-j	N°5	198	5	989.66	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0074
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
	13	Extremos i-j	N°5	198	5	989.66	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0074
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s		
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]		
15	Extremos i-j	N°5	198	5	989.66	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0074	
	centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044	
Piso 2	6	Extremos i-j	N°6	285	4	1140.09	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0081
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
	12	Extremos i-j	N°6	285	4	1140.09	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0081
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
	14	Extremos i-j	N°6	285	4	1140.09	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0081
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
	16	Extremos i-j	N°6	285	4	1140.09	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0081
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
Piso 3	31	Extremos i-j	N°4	127	8	1013.41	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0075
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
	32	Extremos i-j	N°4	127	8	1013.41	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0075
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
	33	Extremos i-j	N°4	127	8	1013.41	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0075
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
	34	Extremos i-j	N°4	127	8	1013.41	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0075
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
Piso 4	35	Extremos i-j	N°4	127	7	886.74	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0069
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
	36	Extremos i-j	N°4	127	7	886.74	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0069
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
	37	Extremos i-j	N°4	127	7	886.74	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0069
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044
	38	Extremos i-j	N°4	127	7	886.74	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0069
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	220	0.0044

Elemento viga			Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]
			N° Barra	Ab [mm2]	cantidad	As' [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	s [mm]	
Piso 5	49	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0056
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0038
	50	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0056
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0038
	51	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0056
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0038
	52	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0056
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0038
Piso 6	53	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0056
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0038
	54	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0056
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0038
	55	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0056
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0038
	56	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0056
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	220	0.0038
0.50x0.55			Modelo ME8N													
Piso 1	3	Extremos i-j	N°6	285	4	1140.09	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0069
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0044
	9	Extremos i-j	N°6	285	4	1140.09	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0069
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0044
	13	Extremos i-j	N°6	285	4	1140.09	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0069
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0044
	15	Extremos i-j	N°6	285	4	1140.09	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0069
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0044
Piso 2	6	Extremos i-j	N°5	198	7	1385.53	N°6	285	3	855.07	N°3	71	2	142.51	250	0.0090

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]		
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s			
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]			
12	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	250	0.0054		
	Extremos i-j	N°5	198	7	1385.53	N°6	285	3	855.07	N°3	71	2	142.51	250	0.0090		
	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	250	0.0054		
	Extremos i-j	N°5	198	7	1385.53	N°6	285	3	855.07	N°3	71	2	142.51	250	0.0090		
	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	250	0.0054		
	Extremos i-j	N°5	198	7	1385.53	N°6	285	3	855.07	N°3	71	2	142.51	250	0.0090		
14	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	250	0.0054		
	Extremos i-j	N°5	198	7	1385.53	N°6	285	3	855.07	N°3	71	2	142.51	250	0.0090		
16	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	250	0.0054		
	Extremos i-j	N°5	198	7	1385.53	N°6	285	3	855.07	N°3	71	2	142.51	250	0.0090		
Piso 3	31	Extremos i-j	N°5	198	7	1385.53	N°6	285	3	855.07	N°3	71	2	142.51	250	0.0090	
		centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	250	0.0054	
	32	Extremos i-j	N°5	198	7	1385.53	N°6	285	3	855.07	N°3	71	2	142.51	250	0.0090	
		centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	250	0.0054	
	33	Extremos i-j	N°5	198	7	1385.53	N°6	285	3	855.07	N°3	71	2	142.51	250	0.0090	
		centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	250	0.0054	
	34	Extremos i-j	N°5	198	7	1385.53	N°6	285	3	855.07	N°3	71	2	142.51	250	0.0090	
		centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	250	0.0054	
	Piso 4	35	Extremos i-j	N°4	127	10	1266.77	N°4	127	6	760.06	N°3	71	2	142.51	240	0.0081
			centro	N°4	127	4	506.71	N°4	127	5	633.38	N°3	71	2	142.51	250	0.0046
		36	Extremos i-j	N°4	127	10	1266.77	N°4	127	6	760.06	N°3	71	2	142.51	240	0.0081
			centro	N°4	127	4	506.71	N°4	127	5	633.38	N°3	71	2	142.51	250	0.0046
37		Extremos i-j	N°4	127	10	1266.77	N°4	127	6	760.06	N°3	71	2	142.51	240	0.0081	
		centro	N°4	127	4	506.71	N°4	127	5	633.38	N°3	71	2	142.51	250	0.0046	
38		Extremos i-j	N°4	127	10	1266.77	N°4	127	6	760.06	N°3	71	2	142.51	240	0.0081	
		centro	N°4	127	4	506.71	N°4	127	5	633.38	N°3	71	2	142.51	250	0.0046	
Piso 5	49	Extremos i-j	N°6	285	4	1140.09	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0069	
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0044	
	50	Extremos i-j	N°6	285	4	1140.09	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0069	

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s		
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]		
51	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0044	
	Extremos i-j	N°6	285	4	1140.09	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0069	
	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0044	
	Extremos i-j	N°6	285	4	1140.09	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0069	
	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0044	
52	Extremos i-j	N°6	285	4	1140.09	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0069	
	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0044	
	Extremos i-j	N°6	285	4	1140.09	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0069	
	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0044	
	Extremos i-j	N°6	285	4	1140.09	N°5	198	3	593.80	N°3	71	2	142.51	250	0.0069	
Piso 6	53	Extremos i-j	N°5	198	5	989.66	N°4	127	4	506.71	N°3	71	2	142.51	250	0.0060
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	250	0.0035
	54	Extremos i-j	N°5	198	5	989.66	N°4	127	4	506.71	N°3	71	2	142.51	250	0.0060
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	250	0.0035
	55	Extremos i-j	N°5	198	5	989.66	N°4	127	4	506.71	N°3	71	2	142.51	250	0.0060
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	250	0.0035
	56	Extremos i-j	N°5	198	5	989.66	N°4	127	4	506.71	N°3	71	2	142.51	250	0.0060
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	250	0.0035
Piso 7	67	Extremos i-j	N°6	285	3	855.07	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0049
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0030
	68	Extremos i-j	N°6	285	3	855.07	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0049
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0030
	69	Extremos i-j	N°6	285	3	855.07	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0049
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0030
	70	Extremos i-j	N°6	285	3	855.07	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0049
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0030
Piso 8	71	Extremos i-j	N°5	198	4	791.73	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0047
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0030
	72	Extremos i-j	N°5	198	4	791.73	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0047
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0030
	73	Extremos i-j	N°5	198	4	791.73	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0047

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s		
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]		
74	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0030	
	Extremos i-j	N°5	198	4	791.73	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0047	
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	250	0.0030	
0.55X0.60		Modelo MF12N														
Piso 1	3	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
	9	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
	13	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°3	71	3	213.77	N°3	71	2	142.51	270	0.0027
	15	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
Piso 2	6	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	12	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	14	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	16	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
Piso 3	31	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	32	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	33	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s	
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]	
34	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
35	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
36	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
37	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
38	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
49	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
	centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
50	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
	centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
51	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
	centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
52	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
	centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
53	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045
54	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045
55	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045
56	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045

Elemento viga			Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]
			N° Barra	Ab [mm2]	cantidad	As' [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	s [mm]	
Piso 7	67	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
	68	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
	69	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
	70	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
Piso 8	71	Extremos i-j	N°4	127	8	1013.41	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0062
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
	72	Extremos i-j	N°4	127	8	1013.41	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0062
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
	73	Extremos i-j	N°4	127	8	1013.41	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0062
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
	74	Extremos i-j	N°4	127	8	1013.41	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0062
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
Piso 9	93	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029
	94	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029
	95	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029
	96	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029
Piso 10	97	Extremos i-j	N°4	127	7	886.74	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0046
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s		
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]		
98	Extremos i-j	N°4	127	7	886.74	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0046	
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
99	Extremos i-j	N°4	127	7	886.74	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0046	
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
100	Extremos i-j	N°4	127	7	886.74	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0046	
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
Piso 11	101	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0038
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	102	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0038
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	103	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0038
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
104	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0038	
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
Piso 12	105	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	106	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	107	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
108	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029	
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
0.55X0.60		Modelo MG14N														
Piso 1	3	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
	9	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s		
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]		
	13	centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
		Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
	15	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
Piso 2	6	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	12	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	14	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	16	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
Piso 3	31	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
	32	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
	33	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
34	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083	
	centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051	
Piso 4	35	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
	36	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
	37	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s		
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]		
38	centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051	
	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079	
	centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051	
Piso 5	49	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	50	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	51	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	52	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
Piso 6	53	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
		centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
	54	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
		centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
	55	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
		centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
	56	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
		centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
Piso 7	67	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045
	68	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045
	69	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045
70	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071	

Elemento viga			Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]
			N°	Ab	cantidad	As'	N°	Ab	cantidad	As	N°	Ab	cantidad	As	s	
			Barra	[mm2]		[mm2]	Barra	[mm2]		[mm2]	Barra	[mm2]		[mm]		
		centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045
Piso 8	71	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
	72	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
	73	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
	74	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
Piso 9	93	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
	94	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
	95	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
	96	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
Piso 10	97	Extremos i-j	N°4	127	8	1013.41	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0060
		centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034
	98	Extremos i-j	N°4	127	8	1013.41	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0060
		centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034
	99	Extremos i-j	N°4	127	8	1013.41	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0060
		centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034
	100	Extremos i-j	N°4	127	8	1013.41	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0060
		centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034
Piso 11	101	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s	
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]	
102	centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029
	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
	centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029
	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
	centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029
	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
103	centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029
	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
104	centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029
	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
Piso 12	Extremos i-j	N°6	285	3	855.07	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0045
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	Extremos i-j	N°6	285	3	855.07	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0045
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	Extremos i-j	N°6	285	3	855.07	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0045
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	Extremos i-j	N°6	285	3	855.07	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0045
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
Piso 13	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0038
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0038
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0038
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	Extremos i-j	N°4	127	6	760.06	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0038
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
Piso 14	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N° Barra	Ab [mm2]	cantidad	As' [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	s [mm]		
127	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029	
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
128	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029	
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
0.55x0.60		Modelo MH16N														
Piso 1	3	Extremos i-j	N°4	127	8	1013.41	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0067
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
	9	Extremos i-j	N°4	127	8	1013.41	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0067
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
	13	Extremos i-j	N°4	127	8	1013.41	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0067
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
15	Extremos i-j	N°4	127	8	1013.41	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0067	
	centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041	
Piso 2	6	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
	12	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
	14	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
16	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079	
	centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051	
Piso 3	31	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053
	32	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s	
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]	
33	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
	centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053
34	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
	centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053
35	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
	centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
36	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
	centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
37	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
	centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
38	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
	centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
49	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
50	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
51	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
52	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
53	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
54	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
55	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s		
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]		
56	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075	
	centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050	
Piso 7	67	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
		centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
	68	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
		centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
	69	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
		centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
70	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073	
	centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046	
Piso 8	71	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045
	72	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045
	73	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045
74	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071	
	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045	
Piso 9	93	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
	94	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
	95	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
96	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071	
	centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041	

Elemento viga			Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]
			N° Barra	Ab [mm2]	cantidad	As' [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	s [mm]	
Piso 10	97	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
	98	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
	99	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
	100	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066
		centro	N°5	198	3	593.80	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0039
Piso 11	101	Extremos i-j	N°4	127	8	1013.41	N°4	127	7	886.74	N°3	71	2	142.51	270	0.0063
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
	102	Extremos i-j	N°4	127	8	1013.41	N°4	127	7	886.74	N°3	71	2	142.51	270	0.0063
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
	103	Extremos i-j	N°4	127	8	1013.41	N°4	127	7	886.74	N°3	71	2	142.51	270	0.0063
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
	104	Extremos i-j	N°4	127	8	1013.41	N°4	127	7	886.74	N°3	71	2	142.51	270	0.0063
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
Piso 12	105	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
		centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034
	106	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
		centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034
	107	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
		centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034
	108	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
		centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034
Piso 13	121	Extremos i-j	N°5	198	5	989.66	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0054
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]		
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s			
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]			
122	Extremos i-j	N°5	198	5	989.66	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0054		
	centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029		
	123	Extremos i-j	N°5	198	5	989.66	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0054	
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029	
	124	Extremos i-j	N°5	198	5	989.66	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0054	
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029	
Piso 14	125	Extremos i-j	N°6	285	3	855.07	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0045	
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
	126	Extremos i-j	N°6	285	3	855.07	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0045	
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
	127	Extremos i-j	N°6	285	3	855.07	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0045	
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
	128	Extremos i-j	N°6	285	3	855.07	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0045	
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
	Piso 15	139	Extremos i-j	N°4	127	5	633.38	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0034
			centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
		140	Extremos i-j	N°4	127	5	633.38	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0034
			centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
141		Extremos i-j	N°4	127	5	633.38	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0034	
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
142	Extremos i-j	N°4	127	5	633.38	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0034		
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025		
Piso 16	143	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029	
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
	144	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029	
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N° Barra	Ab [mm2]	cantidad	As' [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	s [mm]		
145	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029	
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
146	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029	
	centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025	
0.55x0.60		Modelo MI20N														
Piso 1	3	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
	9	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
	13	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
	15	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
Piso 2	6	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053
	12	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053
	14	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053
	16	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053
Piso 3	31	Extremos i-j	N°8	507	3	1520.12	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0088
		centro	N°5	198	4	791.73	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0054
	32	Extremos i-j	N°8	507	3	1520.12	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0088
		centro	N°5	198	4	791.73	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0054
	33	Extremos i-j	N°8	507	3	1520.12	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0088

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab	cantidad	As'	N°	Ab	cantidad	As	N°	Ab	cantidad	As	s		
		Barra	[mm2]		[mm2]	Barra	[mm2]		[mm2]	Barra	[mm2]		[mm]			
34	centro	N°5	198	4	791.73	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0054	
	Extremos i-j	N°8	507	3	1520.12	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0088	
	centro	N°5	198	4	791.73	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0054	
Piso 4	35	Extremos i-j	N°6	285	5	1425.11	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0085
		centro	N°5	198	4	791.73	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0054
	36	Extremos i-j	N°6	285	5	1425.11	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0085
		centro	N°5	198	4	791.73	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0054
	37	Extremos i-j	N°6	285	5	1425.11	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0085
		centro	N°5	198	4	791.73	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0054
	38	Extremos i-j	N°6	285	5	1425.11	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0085
		centro	N°5	198	4	791.73	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0054
Piso 5	49	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053
	50	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053
	51	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053
	52	Extremos i-j	N°5	198	7	1385.53	N°6	285	4	1140.09	N°3	71	2	142.51	270	0.0083
		centro	N°4	127	6	760.06	N°6	285	3	855.07	N°3	71	2	142.51	270	0.0053
Piso 6	53	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
	54	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
	55	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
	56	Extremos i-j	N°5	198	7	1385.53	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0079

Elemento viga			Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]
			N° Barra	Ab [mm2]	cantidad	As' [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	s [mm]	
		centro	N°4	127	6	760.06	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0051
Piso 7	67	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	68	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	69	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	70	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
Piso 8	71	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	72	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	73	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
	74	Extremos i-j	N°4	127	10	1266.77	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0075
		centro	N°4	127	6	760.06	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0050
Piso 9	93	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
		centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
	94	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
		centro	N°4	127	5	633.38	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0046
	95	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
		centro	N°5	198	4	791.73	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0051
	96	Extremos i-j	N°5	198	6	1187.60	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0073
		centro	N°5	198	4	791.73	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0051
Piso 10	97	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]		
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s			
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]			
98	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045		
	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071		
	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045		
	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071		
	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045		
	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071		
99	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045		
	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071		
100	centro	N°5	198	3	593.80	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0045		
	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071		
Piso 11	101	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071	
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041	
	102	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071	
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041	
	103	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071	
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041	
	104	Extremos i-j	N°6	285	4	1140.09	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0071	
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041	
	Piso 12	105	Extremos i-j	N°4	127	8	1013.41	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0067
			centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
		106	Extremos i-j	N°4	127	8	1013.41	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0067
			centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041
107		Extremos i-j	N°4	127	8	1013.41	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0067	
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041	
108		Extremos i-j	N°4	127	8	1013.41	N°4	127	8	1013.41	N°3	71	2	142.51	270	0.0067	
		centro	N°5	198	3	593.80	N°4	127	5	633.38	N°3	71	2	142.51	270	0.0041	
Piso 13	121	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066	
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036	
	122	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066	

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s		
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]		
123	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036	
	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066	
	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036	
	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066	
	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036	
	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066	
124	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036	
	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066	
	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036	
	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066	
	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036	
	Extremos i-j	N°4	127	8	1013.41	N°5	198	5	989.66	N°3	71	2	142.51	270	0.0066	
Piso 14	125	Extremos i-j	N°4	127	8	1013.41	N°4	127	7	886.74	N°3	71	2	142.51	270	0.0063
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
	126	Extremos i-j	N°4	127	8	1013.41	N°4	127	7	886.74	N°3	71	2	142.51	270	0.0063
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
	127	Extremos i-j	N°4	127	8	1013.41	N°4	127	7	886.74	N°3	71	2	142.51	270	0.0063
		centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036
128	Extremos i-j	N°4	127	8	1013.41	N°4	127	7	886.74	N°3	71	2	142.51	270	0.0063	
	centro	N°4	127	4	506.71	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0036	
Piso 15	139	Extremos i-j	N°4	127	8	1013.41	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0060
		centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034
	140	Extremos i-j	N°4	127	8	1013.41	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0060
		centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034
	141	Extremos i-j	N°4	127	8	1013.41	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0060
		centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034
142	Extremos i-j	N°4	127	8	1013.41	N°5	198	4	791.73	N°3	71	2	142.51	270	0.0060	
	centro	N°4	127	4	506.71	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0034	
Piso 16	143	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029
	144	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059
		centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029
	145	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059

Elemento viga		Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]	
		N°	Ab		As'	N°	Ab		As	N°	Ab		As	s		
		Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	Barra	[mm2]	cantidad	[mm2]	[mm]		
146	centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029	
	Extremos i-j	N°4	127	8	1013.41	N°4	127	6	760.06	N°3	71	2	142.51	270	0.0059	
	centro	N°4	127	3	380.03	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0029	
Piso 17	165	Extremos i-j	N°5	198	5	989.66	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0052
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	166	Extremos i-j	N°5	198	5	989.66	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0052
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	167	Extremos i-j	N°5	198	5	989.66	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0052
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	168	Extremos i-j	N°5	198	5	989.66	N°5	198	3	593.80	N°3	71	2	142.51	270	0.0052
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
Piso 18	169	Extremos i-j	N°4	127	6	760.06	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0042
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	170	Extremos i-j	N°4	127	6	760.06	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0042
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	171	Extremos i-j	N°4	127	6	760.06	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0042
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	172	Extremos i-j	N°4	127	6	760.06	N°4	127	4	506.71	N°3	71	2	142.51	270	0.0042
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
Piso 19	173	Extremos i-j	N°5	198	3	593.80	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0032
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	174	Extremos i-j	N°5	198	3	593.80	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0032
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	175	Extremos i-j	N°5	198	3	593.80	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0032
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
176	Extremos i-j	N°5	198	3	593.80	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0032	

Elemento viga			Acero Longitudinal superior				Acero Longitudinal inferior				Acero transversal (Estribos)					Cuantía Total ρ [%]
			N° Barra	Ab [mm2]	cantidad	As' [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	N° Barra	Ab [mm2]	cantidad	As [mm2]	s [mm]	
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
Piso 20	177	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	178	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	179	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025
	180	Extremos i-j	N°4	127	4	506.71	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0029
		centro	N°4	127	3	380.03	N°4	127	3	380.03	N°3	71	2	142.51	270	0.0025

B. Anexo: Desarrollo de Diagramas Momento-Curvatura.

B-1. Resultados de diagramas momento-curvatura por modelo.

Modelo	MB2N								MC4N							
Grupo de elementos	Viga 3 9 13 y 15				Viga 6 12 14 16				Viga 3 9 13 15 6 12 14 16 31 32 33 34				Viga 35 36 37 38			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0003	13.889	0.0003	13.631	0.0003	13.834	0.0003	13.631	0.0003	20.595	0.0003	19.978	0.0003	20.236	0.0003	19.978
	0.0008	20.823	0.0008	21.623	0.0008	20.713	0.0008	21.623	0.0007	31.381	0.0007	30.658	0.0007	29.485	0.0007	30.658
	0.0013	23.02	0.0013	24.71	0.0013	22.872	0.0013	24.71	0.0012	35.055	0.0012	34.178	0.0012	31.22	0.0012	34.178
	0.0018	24.667	0.0018	27.275	0.0018	24.495	0.0018	27.275	0.0016	37.988	0.0016	37.044	0.0016	30.918	0.0016	37.044
	0.0023	25.787	0.0023	29.771	0.0023	25.607	0.0023	29.771	0.0021	40.84	0.0021	39.864	0.0021	30.618	0.0021	39.864
	0.0028	26.353	0.0028	32.289	0.0028	26.167	0.0028	32.289	0.0025	43.427	0.0025	42.509	0.0025	31.832	0.0025	42.509
	0.0033	26.823	0.0033	34.854	0.0033	26.64	0.0033	34.854	0.0030	44.844	0.0030	43.941	0.0030	33.298	0.0030	43.941
	0.0038	27.957	0.0038	37.463	0.0038	27.783	0.0038	37.463	0.0034	46.026	0.0034	45.151	0.0034	34.844	0.0034	45.151
	0.0043	29.378	0.0043	39.472	0.0043	29.215	0.0043	39.472	0.0039	48.024	0.0039	47.154	0.0039	36.406	0.0039	47.154

0.0048	30.796	0.0048	40.796	0.0048	30.643	0.0048	40.796	0.0043	50.72	0.0043	49.905	0.0043	37.937	0.0043	49.905
0.0053	32.172	0.0053	42.419	0.0053	32.036	0.0053	42.419	0.0047	53.377	0.0047	52.632	0.0047	39.35	0.0047	52.632
0.0059	33.524	0.0059	44.91	0.0059	33.424	0.0059	44.91	0.0052	56.048	0.0052	55.425	0.0052	40.44	0.0052	55.425
0.0065	34.578	0.0065	47.514	0.0065	34.561	0.0065	47.514	0.0057	58.544	0.0057	58.145	0.0057	39.845	0.0057	58.145
0.0071	34.057	0.0071	50.02	0.0071	34.101	0.0071	50.02	0.0063	58.263	0.0063	58.478	0.0063	39.198	0.0063	58.478
0.0078	33.628	0.0078	49.863	0.0078	33.67	0.0078	49.863	0.0069	57.537	0.0069	57.574	0.0069	39.083	0.0069	57.574
0.0086	33.807	0.0086	49.611	0.0086	33.851	0.0086	49.611	0.0076	57.785	0.0076	57.744	0.0076	39.261	0.0076	57.744
0.0102	34.663	0.0094	49.806	0.0094	34.347	0.0094	49.806	0.0084	58.054	0.0084	57.919	0.0084	39.776	0.0084	57.919
0.0112	35.437	0.0104	49.993	0.0104	35.12	0.0104	49.993	0.0092	58.33	0.0092	58.125	0.0092	40.588	0.0092	58.125
0.0124	36.183	0.0114	50.194	0.0114	35.868	0.0114	50.194	0.0102	58.682	0.0102	58.315	0.0102	41.362	0.0102	58.315
0.0136	37.079	0.0126	50.383	0.0126	36.59	0.0126	50.383	0.0112	59.83	0.0121	59.501	0.0112	42.229	0.0121	59.501
0.0150	38.002	0.0138	51.194	0.0138	37.497	0.0138	51.194	0.0123	61.305	0.0133	60.515	0.0123	43.213	0.0133	60.515
0.0165	38.943	0.0152	52.116	0.0152	38.413	0.0152	52.116	0.0135	62.775	0.0146	61.549	0.0135	44.208	0.0146	61.549
0.0181	39.877	0.0167	53.043	0.0167	39.326	0.0167	53.043	0.0149	64.218	0.0161	62.619	0.0149	45.208	0.0161	62.619
0.0199	40.817	0.0184	53.994	0.0184	40.244	0.0184	53.994	0.0164	65.695	0.0177	63.716	0.0164	46.218	0.0177	63.716
0.0219	41.755	0.0202	54.973	0.0202	41.171	0.0202	54.973	0.0180	67.187	0.0195	64.855	0.0180	47.243	0.0195	64.855
0.0241	42.493	0.0223	55.975	0.0223	42.018	0.0223	55.975	0.0198	68.677	0.0214	66.034	0.0198	48.282	0.0214	66.034
0.0265	43.211	0.0245	56.953	0.0245	42.676	0.0245	56.953	0.0218	69.801	0.0236	67.182	0.0218	49.287	0.0236	67.182
0.0292	43.941	0.0269	57.763	0.0269	43.391	0.0269	57.763	0.0240	70.92	0.0259	68.193	0.0240	50.175	0.0259	68.193
0.0321	44.668	0.0296	58.555	0.0296	44.115	0.0296	58.555	0.0263	72.031	0.0285	69.135	0.0263	51.034	0.0285	69.135
0.0353	45.417	0.0326	59.337	0.0326	44.841	0.0326	59.337	0.0290	73.107	0.0314	70.093	0.0290	51.895	0.0314	70.093
0.0388	46.168	0.0359	60.121	0.0359	45.593	0.0359	60.121	0.0319	74.21	0.0345	71.072	0.0319	52.768	0.0345	71.072
0.0427	46.911	0.0395	60.921	0.0395	46.346	0.0395	60.921	0.0351	75.349	0.0379	72.048	0.0351	53.666	0.0379	72.048
0.0469	47.64	0.0434	61.739	0.0434	47.102	0.0434	61.739	0.0386	76.477	0.0417	73.072	0.0386	54.602	0.0417	73.072
0.0516	48.314	0.0477	62.57	0.0477	47.842	0.0477	62.57	0.0424	77.596	0.0459	74.146	0.0424	55.554	0.0459	74.146
0.0568	48.904	0.0525	63.391	0.0525	48.517	0.0525	63.391	0.0467	78.653	0.0505	75.236	0.0467	56.51	0.0505	75.236
0.0625	49.357	0.0578	64.194	0.0578	49.106	0.0578	64.194	0.0513	79.61	0.0555	76.337	0.0513	57.455	0.0555	76.337
0.0687	49.684	0.0635	64.941	0.0635	49.556	0.0635	64.941	0.0565	80.426	0.0611	77.431	0.0565	58.329	0.0611	77.431
0.0756	49.813	0.0699	65.61	0.0699	49.855	0.0699	65.61	0.0621	81.043	0.0672	78.486	0.0621	59.105	0.0672	78.486

	0.0832	49.754	0.0769	66.15	0.0769	49.951	0.0769	66.15	0.0683	81.435	0.0739	79.457	0.0683	59.722	0.0739	79.457
	0.0915	49.515	0.0846	66.522	0.0846	49.843	0.0846	66.522	0.0752	81.574	0.0813	80.302	0.0752	60.149	0.0813	80.302
	0.1006	49.145	0.0930	66.694	0.0930	49.555	0.0930	66.694	0.0827	81.488	0.0895	80.945	0.0827	60.336	0.0895	80.945
	0.1107	48.691	0.1023	66.672	0.1023	49.123	0.1023	66.672	0.0910	81.232	0.0984	81.381	0.0910	60.285	0.0984	81.381
	0.1218	48.214	0.1126	66.471	0.1126	48.614	0.1126	66.471	0.1001	80.868	0.1082	81.553	0.1001	60.014	0.1082	81.553
	0.1340	47.761	0.1238	66.185	0.1238	48.08	0.1238	66.185	0.1101	80.475	0.1191	81.494	0.1101	59.569	0.1191	81.494
	0.1473	47.37	0.1362	65.871	0.1362	47.588	0.1362	65.871	0.1211	80.122	0.1310	81.283	0.1211	59.034	0.1310	81.283
	0.1621	47.046	0.1498	65.613	0.1498	47.162	0.1498	65.613	0.1332	79.848	0.1441	80.995	0.1332	58.479	0.1441	80.995
	0.1783	46.787	0.1648	65.452	0.1648	46.814	0.1648	65.452	0.1465	79.672			0.1465	57.922		
			0.1813	65.375	0.1813	46.535	0.1813	65.375								
φmax - Mmax	0.1783	46.79	0.1813	65.38	0.1813	46.54	0.1813	65.38	0.1465	79.67	0.1441	81.00	0.1465	57.92	0.1441	81.00
φy - My	0.0071	34.06	0.0078	49.86	0.0071	34.10	0.0078	49.86	0.0069	57.54	0.0069	57.57	0.0057	39.85	0.0069	57.57
μ	25.13		23.22		25.55		23.22		21.11		20.77		25.55		20.77	

Modelo	MD6N															
Grupo de elementos	Viga 3 9 13 15				Viga 6 12 14 16				Viga 31 32 33 34				Viga 35 36 37 38			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0003	32.719	0.0003	31.795	0.0003	32.914	0.0003	31.795	0.0003	32.785	0.0003	31.795	0.0003	32.59	0.0003	31.795
	0.0007	49.924	0.0007	48.53	0.0007	50.009	0.0007	48.53	0.0007	50.177	0.0007	48.53	0.0007	49.953	0.0007	48.53
	0.0011	55.703	0.0011	53.927	0.0011	55.697	0.0011	53.927	0.0011	56.085	0.0011	53.927	0.0011	55.813	0.0011	53.927
	0.0015	60.257	0.0015	58.315	0.0015	60.226	0.0015	58.315	0.0015	60.72	0.0015	58.315	0.0015	60.435	0.0015	58.315
	0.0019	64.645	0.0019	62.634	0.0019	64.583	0.0019	62.634	0.0019	65.15	0.0019	62.634	0.0019	64.856	0.0019	62.634
	0.0023	67.195	0.0023	65.24	0.0023	67.057	0.0023	65.24	0.0023	67.727	0.0023	65.24	0.0023	67.481	0.0023	65.24
	0.0027	68.904	0.0027	67.015	0.0027	68.745	0.0027	67.015	0.0027	69.434	0.0027	67.015	0.0027	69.19	0.0027	67.015

0.0031	70.644	0.0031	68.807	0.0031	70.541	0.0031	68.807	0.0031	71.128	0.0031	68.807	0.0031	70.876	0.0031	68.807
0.0035	74.782	0.0035	73.034	0.0035	74.682	0.0035	73.034	0.0035	75.234	0.0035	73.034	0.0035	75	0.0035	73.034
0.0039	78.882	0.0039	77.251	0.0039	78.774	0.0039	77.251	0.0039	79.289	0.0039	77.251	0.0039	79.082	0.0039	77.251
0.0043	82.843	0.0043	81.393	0.0043	82.76	0.0043	81.393	0.0043	83.211	0.0043	81.393	0.0043	83.03	0.0043	81.393
0.0047	86.722	0.0047	85.578	0.0047	86.638	0.0047	85.578	0.0047	87.027	0.0047	85.578	0.0047	86.891	0.0047	85.578
0.0052	89.367	0.0052	89.224	0.0052	89.258	0.0052	89.224	0.0052	89.327	0.0052	89.224	0.0052	89.445	0.0052	89.224
0.0057	87.444	0.0057	87.812	0.0057	87.396	0.0057	87.812	0.0057	87.404	0.0057	87.812	0.0057	87.473	0.0057	87.812
0.0062	86.842	0.0062	87.023	0.0062	86.847	0.0062	87.023	0.0062	86.821	0.0062	87.023	0.0062	86.85	0.0062	87.023
0.0069	87.132	0.0069	87.264	0.0069	87.215	0.0069	87.264	0.0069	87.094	0.0069	87.264	0.0069	87.126	0.0069	87.264
0.0076	87.437	0.0076	87.523	0.0076	87.469	0.0076	87.523	0.0076	87.389	0.0076	87.523	0.0076	87.4	0.0076	87.523
0.0083	87.757	0.0083	87.761	0.0083	87.814	0.0083	87.761	0.0083	87.696	0.0083	87.761	0.0083	87.7	0.0083	87.761
0.0091	88.093	0.0091	88.029	0.0091	88.183	0.0091	88.029	0.0091	88.023	0.0091	88.029	0.0091	88.024	0.0091	88.029
0.0101	88.891	0.0101	88.747	0.0101	88.98	0.0101	88.747	0.0101	88.792	0.0101	88.747	0.0101	88.801	0.0101	88.747
0.0111	90.023	0.0111	89.82	0.0111	90.182	0.0111	89.82	0.0111	89.931	0.0111	89.82	0.0111	89.911	0.0111	89.82
0.0122	91.557	0.0122	91.039	0.0122	92.18	0.0122	91.039	0.0122	91.174	0.0122	91.039	0.0122	91.132	0.0122	91.039
0.0134	93.609	0.0134	92.633	0.0134	94.355	0.0134	92.633	0.0134	93.051	0.0134	92.633	0.0134	93.027	0.0134	92.633
0.0147	95.72	0.0147	94.272	0.0147	96.556	0.0147	94.272	0.0147	95.167	0.0147	94.272	0.0147	95.035	0.0147	94.272
0.0162	97.873	0.0162	95.975	0.0162	98.791	0.0162	95.975	0.0162	97.289	0.0162	95.975	0.0162	97.109	0.0162	95.975
0.0178	100.05 3	0.0178	97.737	0.0178	101.07 1	0.0178	97.737	0.0178	99.489	0.0178	97.737	0.0178	99.231	0.0178	97.737
0.0196	102.27 3	0.0196	99.536	0.0196	103.39 7	0.0196	99.536	0.0196	101.71 6	0.0196	99.536	0.0196	101.37 3	0.0196	99.536
0.0216	104.42 7	0.0216	101.41	0.0216	105.37 4	0.0216	101.41	0.0216	103.98	0.0216	101.41	0.0216	103.59 4	0.0216	101.41
0.0237	106.23 4	0.0237	103.03	0.0237	107.15 3	0.0237	103.03	0.0237	105.96 8	0.0237	103.03	0.0237	105.53 6	0.0237	103.03
0.0261	107.93 8	0.0261	104.51 1	0.0261	108.84 3	0.0261	104.51 1	0.0261	107.72 1	0.0261	104.51 1	0.0261	107.26	0.0261	104.51 1
0.0287	109.58 3	0.0287	105.98 2	0.0287	110.49 9	0.0287	105.98 2	0.0287	109.41 4	0.0287	105.98 2	0.0287	108.91 8	0.0287	105.98 2
0.0316	111.22 5	0.0316	107.45 7	0.0316	112.15 5	0.0316	107.45 7	0.0316	111.06 8	0.0316	107.45 7	0.0316	110.55 4	0.0316	107.45 7
0.0347	112.87 6	0.0347	108.93 2	0.0347	113.84	0.0347	108.93 2	0.0347	112.74 7	0.0347	108.93 2	0.0347	112.19 4	0.0347	108.93 2
0.0382	114.56	0.0382	110.48 4	0.0382	115.50 2	0.0382	110.48 4	0.0382	114.38 4	0.0382	110.48 4	0.0382	113.86 4	0.0382	110.48 4

Resultado

0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
0.0003	32.189	0.0003	31.595	0.0002	43.977	0.0002	42.884	0.0002	44.908	0.0002	43.352	0.0002	44.591	0.0002	42.976
0.0007	47.575	0.0007	46.516	0.0006	65.397	0.0006	64.11	0.0006	69.302	0.0006	67.868	0.0006	64.627	0.0006	65.978
0.0011	51.708	0.0011	50.321	0.0010	72.301	0.0010	70.829	0.0010	79.328	0.0010	77.027	0.0010	71.723	0.0010	73.685
0.0015	52.067	0.0015	50.552	0.0013	77.933	0.0013	76.392	0.0013	87.985	0.0013	84.788	0.0013	78.84	0.0013	79.993
0.0019	51.906	0.0019	50.395	0.0017	83.241	0.0017	81.797	0.0017	96.564	0.0017	92.49	0.0017	86.387	0.0017	86.22
0.0023	52.897	0.0023	51.434	0.0021	86.036	0.0021	84.692	0.0021	105.27 2	0.0021	100.32 1	0.0021	94.324	0.0021	90.828
0.0027	55.562	0.0027	54.172	0.0024	88.235	0.0024	87.009	0.0024	114.18 7	0.0024	108.18 7	0.0024	102.6	0.0024	93.632
0.0031	58.328	0.0031	57.017	0.0028	91.827	0.0028	90.504	0.0028	123.26 5	0.0028	112.85 8	0.0028	108.28 5	0.0028	96.213
0.0035	61.128	0.0035	59.915	0.0032	97.314	0.0032	96.093	0.0032	129.71 2	0.0032	116.87 7	0.0032	113.01	0.0032	101.77 9
0.0039	63.867	0.0039	62.789	0.0035	102.81 9	0.0035	101.68 4	0.0035	134.50 3	0.0035	122.61	0.0035	119.48 7	0.0035	107.81 7
0.0043	66.397	0.0043	65.514	0.0039	108.12	0.0039	107.11 4	0.0039	142.10 8	0.0039	130.07 2	0.0039	127.7	0.0039	113.74 3
0.0047	68.33	0.0047	67.891	0.0043	113.29 7	0.0043	112.50 2	0.0043	150.64 6	0.0043	137.75 4	0.0043	136.30 8	0.0043	119.68 5
0.0052	67.189	0.0052	67.386	0.0047	115.97 4	0.0047	116.53 6	0.0047	159.21 9	0.0047	145.28 1	0.0047	145.29 9	0.0047	124.61 1
0.0057	65.959	0.0057	66.064	0.0052	113.47 4	0.0052	113.84 4	0.0052	162.35 1	0.0052	146.27 1	0.0052	150.96 6	0.0052	121.98 3
0.0062	65.908	0.0062	65.938	0.0057	113.11 1	0.0057	113.31 4	0.0057	159.95 4	0.0057	144.56 4	0.0057	149.22 7	0.0057	121.29 7
0.0069	66.116	0.0069	66.118	0.0062	113.43 8	0.0062	113.60 3	0.0062	160.43 5	0.0062	144.94 6	0.0062	149.67 8	0.0062	121.67 3
0.0076	66.348	0.0076	66.308	0.0069	113.77 5	0.0069	113.91 4	0.0069	160.91 5	0.0069	145.36 4	0.0069	150.13 4	0.0069	121.92 1
0.0083	66.594	0.0083	66.494	0.0076	114.14 6	0.0076	114.22 2	0.0076	161.38 1	0.0076	145.78 4	0.0076	150.59 2	0.0076	122.24 8
0.0091	66.853	0.0091	66.732	0.0083	114.52 9	0.0083	114.52 1	0.0083	161.84 7	0.0083	146.18 8	0.0083	151.23 3	0.0083	122.57 3
0.0101	68.106	0.0101	67.821	0.0091	115.67 5	0.0091	115.54 9	0.0091	163.04 2	0.0091	147.34 2	0.0091	152.66 4	0.0091	123.71 4
0.0111	69.614	0.0111	69.017	0.0101	117.13 3	0.0101	116.97 1	0.0101	165.00 3	0.0101	149.14 8	0.0101	154.71 2	0.0101	125.18 7
0.0122	71.141	0.0122	70.248	0.0111	118.7	0.0111	118.45 1	0.0111	167.09 3	0.0111	151.04	0.0111	156.88 6	0.0111	126.75 9
0.0134	72.679	0.0134	71.509	0.0132	122.61 1	0.0122	120.01 6	0.0122	169.35 8	0.0122	153.03 8	0.0122	159.14 5	0.0122	128.46 4

0.0147	74.251	0.0147	72.792	0.0145	125.31 4	0.0134	121.77 5	0.0134	171.77 5	0.0134	155.18 5	0.0134	161.52 5	0.0134	130.25 6
0.0162	75.855	0.0162	74.117	0.0159	128.08 5	0.0147	124.02 8	0.0147	174.35 4	0.0147	157.46 2	0.0147	164.06 3	0.0147	132.33 8
0.0178	77.496	0.0178	75.488	0.0175	130.97 5	0.0162	126.36 5	0.0162	177.1	0.0162	159.93 8	0.0162	165.85 9	0.0162	134.78 8
0.0196	79.176	0.0196	76.903	0.0193	133.80 1	0.0178	128.75 6	0.0178	180.00 8	0.0178	162.71 8	0.0178	167.58	0.0178	137.35 5
0.0216	80.89	0.0216	78.356	0.0212	136.14 8	0.0196	131.23 7	0.0196	183.02 2	0.0196	165.73 1	0.0196	169.55 3	0.0196	139.99 8
0.0237	82.478	0.0237	79.882	0.0233	138.31 4	0.0216	133.51 2	0.0216	185.99 5	0.0216	168.18 7	0.0216	171.81 5	0.0216	142.46 1
0.0261	83.882	0.0261	81.209	0.0257	140.39 5	0.0237	135.49 6	0.0237	188.89 1	0.0237	170.49 3	0.0237	174.07 1	0.0237	144.59 1
0.0287	85.27	0.0287	82.475	0.0282	142.46 1	0.0261	137.40 8	0.0261	191.62 9	0.0261	172.73 9	0.0261	176.34 3	0.0261	146.62 3
0.0316	86.646	0.0316	83.727	0.0310	144.56 9	0.0287	139.28 5	0.0287	194.25	0.0287	175.02 2	0.0287	178.68	0.0287	148.61 4
0.0347	88.035	0.0347	85.003	0.0341	146.67 7	0.0316	141.20 6	0.0316	196.82 7	0.0316	177.27 3	0.0316	181.19 4	0.0316	150.63 1
0.0382	89.463	0.0382	86.317	0.0376	148.86 1	0.0347	143.19	0.0347	199.49 7	0.0347	179.61 2	0.0347	183.66 9	0.0347	152.71 1
0.0420	90.924	0.0420	87.678	0.0413	151.02 1	0.0382	145.24 5	0.0382	202.08	0.0382	182.03 4	0.0382	186.29 3	0.0382	154.89 8
0.0462	92.395	0.0462	89.112	0.0454	153.14 6	0.0420	147.38 2	0.0420	204.66 1	0.0420	184.55 4	0.0420	188.87	0.0420	157.08 8
0.0508	93.843	0.0508	90.574	0.0500	155.16 2	0.0462	149.57 3	0.0462	207.10 9	0.0462	187.05 9	0.0462	191.41	0.0462	159.41 5
0.0559	95.207	0.0559	92.056	0.0550	157.02	0.0508	151.81 1	0.0508	209.42 8	0.0508	189.55 5	0.0508	193.83 1	0.0508	161.69 7
0.0615	96.457	0.0615	93.543	0.0605	158.63 7	0.0559	153.99	0.0559	211.53 8	0.0559	191.94 4	0.0559	196.07 7	0.0559	163.96 6
0.0677	97.516	0.0677	94.981	0.0665	159.97 7	0.0615	156.14 2	0.0615	213.40 5	0.0615	194.26 1	0.0615	198.12 1	0.0615	166.18 4
0.0744	98.352	0.0744	96.304	0.0732	161.00 1	0.0677	158.16 3	0.0677	215.12 2	0.0677	196.34 7	0.0677	199.86 8	0.0677	168.24 3
0.0819	98.9	0.0819	97.469	0.0805	161.78 1	0.0744	159.96 7	0.0744	216.63 3	0.0744	198.14 8	0.0744	201.43 6	0.0744	170.09 7
0.0901	99.162	0.0901	98.388	0.0886	162.28 5	0.0819	161.48 1	0.0819	218.02 6	0.0819	199.64 3	0.0819	202.84 1	0.0819	171.63 4
0.0991	99.172	0.0991	99.002	0.0974	162.65	0.0901	162.67 3	0.0901	219.34 1	0.0901	200.84 1	0.0901	204.16 9	0.0901	172.85 7
0.1090	98.965	0.1090	99.288	0.1072	162.90 7	0.0991	163.53 5	0.0991	220.76 4	0.0991	201.81 6	0.0991	205.48 9	0.0991	173.75 6
0.1199	98.633	0.1199	99.239	0.1179	163.17 7	0.1090	164.08 6	0.1090	222.25 2	0.1090	202.65 2	0.1090	206.85 7	0.1090	174.38 4

	0.1318	98.233							0.1199	223.779			0.1199	208.295		
φmax - Mmax	0.1318	98.23	0.1199	99.24	0.1179	163.18	0.1090	164.09	0.1199	223.78	0.1090	202.65	0.1199	208.30	0.1090	174.38
φy - My	0.0052	67.19	0.0052	67.39	0.0052	113.47	0.0052	113.84	0.0057	159.95	0.0057	144.56	0.0057	149.23	0.0052	121.98
μ	25.55		23.22		22.84		21.11		21.11		19.19		21.11		21.11	

Modelo	ME8N															
Grupo de elementos	Viga 49 50 51 52				Viga 53 54 55 56				Viga 67 68 69 70				Viga 71 72 73 74			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	43.977	0.0002	42.884	0.0002	43.595	0.0002	42.506	0.0002	43.091	0.0002	42.272	0.0002	43.002	0.0002	42.272
	0.0006	65.397	0.0006	64.11	0.0006	65.043	0.0006	63.126	0.0006	61.7	0.0006	60.566	0.0006	61.813	0.0006	60.566
	0.0010	72.301	0.0010	70.829	0.0010	71.34	0.0010	68.812	0.0010	61.155	0.0010	59.925	0.0010	61.455	0.0010	59.925
	0.0013	77.933	0.0013	76.392	0.0013	74.97	0.0013	72.301	0.0013	58.733	0.0013	57.526	0.0013	59.085	0.0013	57.526
	0.0017	83.241	0.0017	81.797	0.0017	75.735	0.0017	72.993	0.0017	60.255	0.0017	58.977	0.0017	60.525	0.0017	58.977
	0.0021	86.036	0.0021	84.692	0.0021	76.482	0.0021	73.912	0.0021	62.744	0.0021	61.553	0.0021	63.029	0.0021	61.553
	0.0024	88.235	0.0024	87.009	0.0024	79.546	0.0024	77.054	0.0024	65.553	0.0024	64.436	0.0024	65.832	0.0024	64.436
	0.0028	91.827	0.0028	90.504	0.0028	84.001	0.0028	81.587	0.0028	68.499	0.0028	67.463	0.0028	68.744	0.0028	67.463
	0.0032	97.314	0.0032	96.093	0.0032	88.461	0.0032	86.254	0.0032	71.458	0.0032	70.539	0.0032	71.67	0.0032	70.539
	0.0035	102.819	0.0035	101.684	0.0035	92.857	0.0035	90.871	0.0035	74.29	0.0035	73.516	0.0035	74.473	0.0035	73.516
	0.0039	108.12	0.0039	107.114	0.0039	96.979	0.0039	95.309	0.0039	76.629	0.0039	76.127	0.0039	76.772	0.0039	76.127
	0.0043	113.297	0.0043	112.502	0.0043	100.55	0.0043	99.479	0.0043	76.393	0.0043	76.666	0.0043	76.399	0.0043	76.666
	0.0047	115.974	0.0047	116.536	0.0047	99.537	0.0047	100.015	0.0047	74.913	0.0047	75.046	0.0047	74.926	0.0047	75.046

0.0052	113.47 4	0.0052	113.84 4	0.0052	97.566	0.0052	97.803	0.0052	73.837	0.0052	73.846	0.0052	73.803	0.0052	73.846
0.0057	113.11 1	0.0057	113.31 4	0.0057	97.654	0.0057	97.801	0.0057	74.038	0.0057	74.014	0.0057	74.006	0.0057	74.014
0.0062	113.43 8	0.0062	113.60 3	0.0062	97.915	0.0062	98.029	0.0062	74.278	0.0062	74.195	0.0062	74.239	0.0062	74.195
0.0069	113.77 5	0.0069	113.91 4	0.0069	98.216	0.0069	98.282	0.0069	74.523	0.0069	74.359	0.0069	74.461	0.0069	74.359
0.0076	114.14 6	0.0076	114.22 2	0.0076	98.52	0.0076	98.533	0.0076	74.788	0.0076	74.552	0.0076	74.699	0.0076	74.552
0.0083	114.52 9	0.0083	114.52 1	0.0083	98.834	0.0083	98.756	0.0083	75.559	0.0083	74.825	0.0083	75.071	0.0083	74.825
0.0091	115.67 5	0.0091	115.54 9	0.0091	99.95	0.0091	99.838	0.0091	77.26	0.0091	76.015	0.0091	76.736	0.0091	76.015
0.0101	117.13 3	0.0101	116.97 1	0.0101	101.20 2	0.0101	101	0.0101	78.981	0.0101	77.322	0.0101	78.397	0.0101	77.322
0.0111	118.7	0.0111	118.45 1	0.0111	102.72 2	0.0111	102.28 2	0.0111	80.709	0.0111	78.653	0.0111	80.075	0.0111	78.653
0.0132	122.61 1	0.0122	120.01 6	0.0122	104.97	0.0122	104.00 3	0.0122	82.46	0.0122	80.011	0.0122	81.76	0.0122	80.011
0.0145	125.31 4	0.0134	121.77 5	0.0134	107.27 8	0.0134	105.81 1	0.0134	84.242	0.0134	81.415	0.0134	83.497	0.0134	81.415
0.0159	128.08 5	0.0147	124.02 8	0.0147	109.62 5	0.0147	107.69 1	0.0147	86.05	0.0147	82.867	0.0147	85.261	0.0147	82.867
0.0175	130.97 5	0.0162	126.36 5	0.0162	112.00 5	0.0162	109.63 4	0.0162	87.929	0.0162	84.374	0.0162	87.08	0.0162	84.374
0.0193	133.80 1	0.0178	128.75 6	0.0178	114.46 7	0.0178	111.62 4	0.0178	89.838	0.0178	85.92	0.0178	88.939	0.0178	85.92
0.0212	136.14 8	0.0196	131.23 7	0.0196	116.97 7	0.0196	113.69 5	0.0196	91.819	0.0196	87.544	0.0196	90.849	0.0196	87.544
0.0233	138.31 4	0.0216	133.51 2	0.0216	119.36 1	0.0216	115.82 7	0.0216	93.593	0.0216	89.242	0.0216	92.787	0.0216	89.242
0.0257	140.39 5	0.0237	135.49 6	0.0237	121.39 4	0.0237	117.66 4	0.0237	95.189	0.0237	90.991	0.0237	94.488	0.0237	90.991
0.0282	142.46 1	0.0261	137.40 8	0.0261	123.34 8	0.0261	119.33 9	0.0261	96.779	0.0261	92.545	0.0261	96.076	0.0261	92.545
0.0310	144.56 9	0.0287	139.28 5	0.0287	125.25 7	0.0287	121.04 1	0.0287	98.365	0.0287	94.003	0.0287	97.632	0.0287	94.003
0.0341	146.67 7	0.0316	141.20 6	0.0316	127.16 4	0.0316	122.73 4	0.0316	99.979	0.0316	95.455	0.0316	99.227	0.0316	95.455
0.0376	148.86 1	0.0347	143.19	0.0347	129.15 8	0.0347	124.51 1	0.0347	101.64 7	0.0347	96.933	0.0347	100.86 3	0.0347	96.933
0.0413	151.02 1	0.0382	145.24 5	0.0382	131.10 1	0.0382	126.33 8	0.0382	103.38 9	0.0382	98.47	0.0382	102.54 7	0.0382	98.47
0.0454	153.14 6	0.0420	147.38 2	0.0420	133.11 2	0.0420	128.22 5	0.0420	105.15	0.0420	100.08 2	0.0420	104.31 1	0.0420	100.08 2

	0.0500	155.16 2	0.0462	149.57 3	0.0462	135.15 4	0.0462	130.23 1	0.0462	106.94 3	0.0462	101.73 4	0.0462	106.07 3	0.0462	101.73 4
	0.0550	157.02	0.0508	151.81 1	0.0508	137.07	0.0508	132.28 5	0.0508	108.71 4	0.0508	103.48 4	0.0508	107.85 3	0.0508	103.48 4
	0.0605	158.63 7	0.0559	153.99	0.0559	138.88 1	0.0559	134.35 9	0.0559	110.37 8	0.0559	105.26 3	0.0559	109.54 9	0.0559	105.26 3
	0.0665	159.97 7	0.0615	156.14 2	0.0615	140.48	0.0615	136.44 3	0.0615	111.88 8	0.0615	107.05 7	0.0615	111.13 4	0.0615	107.05 7
	0.0732	161.00 1	0.0677	158.16 3	0.0677	141.83 2	0.0677	138.46	0.0677	113.14 5	0.0677	108.83 1	0.0677	112.51 5	0.0677	108.83 1
	0.0805	161.78 1	0.0744	159.96 7	0.0744	142.88 4	0.0744	140.34 8	0.0744	114.13 7	0.0744	110.52 9	0.0744	113.62 3	0.0744	110.52 9
	0.0886	162.28 5	0.0819	161.48 1	0.0819	143.61 9	0.0819	142.03 2	0.0819	114.75 4	0.0819	111.96 4	0.0819	114.38 8	0.0819	111.96 4
	0.0974	162.65	0.0901	162.67 3	0.0901	144.07 1	0.0901	143.41 9	0.0901	114.99 6	0.0901	113.16 8	0.0901	114.80 2	0.0901	113.16 8
	0.1072	162.90 7	0.0991	163.53 5	0.0991	144.28 5	0.0991	144.43 8	0.0991	114.90 1	0.0991	114.17 3	0.0991	114.87 1	0.0991	114.17 3
	0.1179	163.17 7	0.1090	164.08 6	0.1090	144.33 8	0.1090	145.05 4	0.1090	114.52 2	0.1090	114.88 5	0.1090	114.63	0.1090	114.88 5
φmax - Mmax	0.1179	163.18	0.1090	164.09	0.1090	144.34	0.1090	145.05	0.1090	114.52	0.1090	114.89	0.1090	114.63	0.1090	114.89
φy - My	0.0052	113.47	0.0052	113.84	0.0047	99.54	0.0052	97.80	0.0043	76.39	0.0047	75.05	0.0043	76.40	0.0047	75.05
μ	22.84		21.11		23.22		21.11		25.55		23.22		25.55		23.22	

Modelo	MF12N															
Grupo de elementos	Viga 3 9 13 15				Viga 6 12 14 16 35 36 37 38				Viga 31 32 33 34				Viga 49 50 51 52			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	57.727	0.0002	55.983	0.0002	58.348	0.0002	56.731	0.0002	58.552	0.0002	56.731	0.0002	58.141	0.0002	56.46
	0.0006	90.913	0.0006	81.245	0.0006	93.605	0.0006	87.486	0.0006	93.511	0.0006	87.486	0.0006	92.87	0.0006	86.859

0.0009	104.35 5	0.0009	88.066	0.0009	108.22 9	0.0009	98.064	0.0009	107.92 7	0.0009	98.064	0.0009	107.10 6	0.0009	97.185
0.0012	115.86 5	0.0012	92.143	0.0012	120.57 5	0.0012	106.73 3	0.0012	120.17 4	0.0012	106.73 3	0.0012	119.24 3	0.0012	105.75 1
0.0016	127.18 8	0.0016	93.18	0.0016	132.54 7	0.0016	115.20 7	0.0016	132.07 7	0.0016	115.20 7	0.0016	131.13 6	0.0016	114.16 1
0.0019	138.64 7	0.0019	94.334	0.0019	144.57 9	0.0019	121.43 7	0.0019	144.09 6	0.0019	121.43 7	0.0019	143.12	0.0019	120.36 1
0.0022	150.38 8	0.0022	99.312	0.0022	156.80 7	0.0022	125.34 4	0.0022	156.29 3	0.0022	125.34 4	0.0022	155.30 5	0.0022	124.30 5
0.0026	161.26 6	0.0026	105.30 6	0.0026	168.26 8	0.0026	128.84 7	0.0026	167.62 7	0.0026	128.84 7	0.0026	166.67 3	0.0026	127.88 8
0.0029	168.27 1	0.0029	111.35 4	0.0029	175.35 5	0.0029	136.34 7	0.0029	174.68 8	0.0029	136.34 7	0.0029	173.77 9	0.0029	135.41 2
0.0032	174.22 4	0.0032	117.39 3	0.0032	181.26 4	0.0032	144.46 4	0.0032	180.60 7	0.0032	144.46 4	0.0032	179.82	0.0032	143.6
0.0036	185.05 3	0.0036	123.16	0.0036	191.68 8	0.0036	152.37 6	0.0036	191.23 5	0.0036	152.37 6	0.0036	190.33 8	0.0036	151.61 5
0.0039	196.21 8	0.0039	128.47 6	0.0039	203.02	0.0039	160.11 7	0.0039	202.59 5	0.0039	160.11 7	0.0039	201.88 4	0.0039	159.51 4
0.0043	207.11 5	0.0043	128.30 6	0.0043	213.94 2	0.0043	165.00 3	0.0043	213.61 2	0.0043	165.00 3	0.0043	213.06 3	0.0043	165.2
0.0047	208.37 1	0.0047	125.60 9	0.0047	214.05 4	0.0047	160.98 7	0.0047	213.87 7	0.0047	160.98 7	0.0047	214.13 3	0.0047	161.04 8
0.0052	206.05 8	0.0052	125.85 5	0.0052	211.83 1	0.0052	160.60 2	0.0052	211.73 7	0.0052	160.60 2	0.0052	211.87 3	0.0052	160.67 9
0.0057	206.63 6	0.0057	126.18 1	0.0057	212.43 8	0.0057	161.03 2	0.0057	212.32 4	0.0057	161.03 2	0.0057	212.42 2	0.0057	161.09 1
0.0063	207.20 9	0.0063	126.48 3	0.0063	212.95 4	0.0063	161.40 9	0.0063	212.92 5	0.0063	161.40 9	0.0063	213.01 3	0.0063	161.48 6
0.0069	207.68 6	0.0069	126.78 6	0.0069	213.52	0.0069	161.81 2	0.0069	213.48 5	0.0069	161.81 2	0.0069	213.58 8	0.0069	161.87 9
0.0076	208.26 6	0.0076	127.15 1	0.0076	214.07 7	0.0076	162.24 1	0.0076	214.03 5	0.0076	162.24 1	0.0076	214.15 4	0.0076	162.29 1
0.0084	210.05 4	0.0084	128.55 4	0.0084	215.96 9	0.0084	163.95 7	0.0084	215.95 6	0.0084	163.95 7	0.0084	216.01	0.0084	163.99 7
0.0092	212.53 3	0.0092	130.09 9	0.0092	218.56 7	0.0092	165.84 9	0.0092	218.47 3	0.0092	165.84 9	0.0092	218.59 8	0.0092	165.92 5
0.0101	215.18 5	0.0101	131.83 5	0.0101	221.29 9	0.0101	167.96 2	0.0101	221.27 8	0.0101	167.96 2	0.0101	221.33 5	0.0101	167.94 4
0.0112	218.03 4	0.0112	133.46 1	0.0112	224.21 3	0.0112	170.17 3	0.0112	224.20 3	0.0112	170.17 3	0.0112	224.26 8	0.0112	170.22 4
0.0123	221.05 4	0.0123	135.67 8	0.0123	227.32 2	0.0123	172.54 4	0.0123	227.32 3	0.0123	172.54 4	0.0123	227.45 7	0.0123	172.56 5
0.0135	224.30 4	0.0135	138.23 2	0.0135	230.65 4	0.0135	175.08 8	0.0135	230.66 4	0.0135	175.08 8	0.0135	230.76 6	0.0135	175.08 5

0.0148	227.75 6	0.0148	140.86	0.0148	234.17 8	0.0148	177.80 6	0.0148	234.24 1	0.0148	177.80 6	0.0148	234.32 6	0.0148	177.78 9	
0.0163	231.26 6	0.0163	143.53 3	0.0163	237.89 6	0.0163	180.65 2	0.0163	237.94 7	0.0163	180.65 2	0.0163	237.98 4	0.0163	180.61 8	
0.0180	234.90 1	0.0180	146.36 7	0.0180	241.74 8	0.0180	184.07 9	0.0180	241.80 1	0.0180	184.07 9	0.0180	241.81 1	0.0180	184.03 3	
0.0198	238.19 3	0.0198	149.08 2	0.0198	245.44	0.0198	187.82	0.0198	245.38 5	0.0198	187.82	0.0198	245.16 6	0.0198	187.54	
0.0217	241.27 4	0.0217	151.4	0.0217	248.76 3	0.0217	190.95 9	0.0217	248.76 5	0.0217	190.95 9	0.0217	248.42 6	0.0217	190.44	
0.0239	244.35 4	0.0239	153.58 8	0.0239	252.03 5	0.0239	193.81 4	0.0239	252.08 7	0.0239	193.81 4	0.0239	251.71 8	0.0239	193.18 7	
0.0263	247.65 3	0.0263	155.75 4	0.0263	255.47 7	0.0263	196.53 5	0.0263	255.62 3	0.0263	196.53 5	0.0263	255.16	0.0263	195.86	
0.0289	250.96 8	0.0289	157.95 5	0.0289	258.97 2	0.0289	199.27 1	0.0289	259.10 2	0.0289	199.27 1	0.0289	258.58 5	0.0289	198.53 5	
0.0318	254.29 4	0.0318	160.21 4	0.0318	262.44	0.0318	202.04 6	0.0318	262.68	0.0318	202.04 6	0.0318	262.02 5	0.0318	201.22 2	
0.0350	257.66 9	0.0350	162.54	0.0350	265.99	0.0350	204.86 6	0.0350	266.14 2	0.0350	204.86 6	0.0350	265.52 8	0.0350	204.03 2	
0.0385	261.17 2	0.0385	165.01 8	0.0385	269.54	0.0385	207.84 5	0.0385	269.64 7	0.0385	207.84 5	0.0385	268.96 6	0.0385	206.91 4	
0.0424	264.60 9	0.0424	167.59 4	0.0424	273.02 7	0.0424	210.76 7	0.0424	273.08 6	0.0424	210.76 7	0.0424	272.48 4	0.0424	209.93	
0.0466	268.03 7	0.0466	170.22 4	0.0466	276.43 5	0.0466	213.81 7	0.0466	276.5	0.0466	213.81 7	0.0466	275.92 4	0.0466	212.97 5	
0.0513	271.39 5	0.0513	172.89 9	0.0513	279.78 9	0.0513	216.79 8	0.0513	279.71 8	0.0513	216.79 8	0.0513	279.24 6	0.0513	215.98 4	
0.0564	274.59 2	0.0564	175.52 1	0.0564	282.95 9	0.0564	219.72 5	0.0564	282.79 4	0.0564	219.72 5	0.0564	282.37	0.0564	218.98 3	
0.0620	277.64 7	0.0620	178.10 5	0.0620	285.94 5	0.0620	222.47 4	0.0620	285.62 1	0.0620	222.47 4	0.0620	285.29 8	0.0620	221.85 4	
0.0682	280.43 7	0.0682	180.51 9	0.0682	288.72	0.0682	225.00 9	0.0682	288.29 3	0.0682	225.00 9	0.0682	287.98 8	0.0682	224.52 5	
0.0750	283.02	0.0750	182.64 4	0.0750	291.32 7	0.0750	227.25 4	0.0750	290.77 6	0.0750	227.25 4	0.0750	290.47	0.0750	226.91 8	
0.0825	285.40 8	0.0825	184.42	0.0825	293.77 8	0.0825	229.15 7	0.0825	293.11 2	0.0825	229.15 7	0.0825	292.83 3	0.0825	228.89 6	
0.0908	287.65 9	0.0908	185.78 3	0.0908	296.20 6	0.0908	230.73 6	0.0908	295.44 5	0.0908	230.73 6	0.0908	295.13	0.0908	230.56 2	
0.0999	289.83 5	0.0999	186.71 6	0.0999	298.57 5	0.0999	232.05 4	0.0999	297.72 5	0.0999	232.05 4	0.0999	297.33 1	0.0999	231.93	
φmax - Mmax	0.0999	289.84	0.0999	186.72	0.0999	298.58	0.0999	232.05	0.0999	297.73	0.0999	232.05	0.0999	297.33	0.0999	231.93

$\phi_y - M_y$	0.0052	206.06	0.0043	128.31	0.0052	211.83	0.0047	160.99	0.0052	211.74	0.0047	160.99	0.0052	211.87	0.0052	160.68
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μ	19.19		23.22		19.19		21.11		19.19		21.11		19.19		19.19	
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Modelo	MF12N															
Grupo de elementos	Viga 53 54 55 56				Viga 67 68 69 70				Viga 71 72 73 74				Viga 93 94 95 96			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	58.009	0.0002	55.652	0.0002	57.727	0.0002	55.983	0.0002	58.009	0.0002	55.817	0.0002	57.268	0.0002	55.381
	0.0006	92.196	0.0006	81.028	0.0006	90.913	0.0006	81.245	0.0006	92.196	0.0006	81.317	0.0006	88.486	0.0006	80.059
	0.0009	106.133	0.0009	85.271	0.0009	104.355	0.0009	88.066	0.0009	106.133	0.0009	88.265	0.0009	99.386	0.0009	83.837
	0.0012	118.132	0.0012	83.686	0.0012	115.865	0.0012	92.143	0.0012	118.132	0.0012	92.458	0.0012	108.196	0.0012	82.096
	0.0016	129.917	0.0016	82.782	0.0016	127.188	0.0016	93.18	0.0016	129.917	0.0016	93.541	0.0016	116.747	0.0016	81.209
	0.0019	141.798	0.0019	86.91	0.0019	138.647	0.0019	94.334	0.0019	141.798	0.0019	94.695	0.0019	122.963	0.0019	85.458
	0.0022	153.987	0.0022	91.497	0.0022	150.388	0.0022	99.312	0.0022	153.987	0.0022	99.587	0.0022	126.787	0.0022	90.116
	0.0026	165.289	0.0026	96.311	0.0026	161.266	0.0026	105.306	0.0026	165.289	0.0026	105.546	0.0026	130.207	0.0026	95
	0.0029	172.423	0.0029	101.179	0.0029	168.271	0.0029	111.354	0.0029	172.423	0.0029	111.614	0.0029	137.665	0.0029	99.999
	0.0032	178.56	0.0032	105.899	0.0032	174.224	0.0032	117.393	0.0032	178.56	0.0032	117.632	0.0032	145.721	0.0032	104.842
	0.0036	189.22	0.0036	110.245	0.0036	185.053	0.0036	123.16	0.0036	189.22	0.0036	123.365	0.0036	153.47	0.0036	109.386
	0.0039	200.821	0.0039	112.585	0.0039	196.218	0.0039	128.476	0.0039	200.821	0.0039	128.646	0.0039	161.004	0.0039	112.539
	0.0043	212.333	0.0043	110.053	0.0043	207.115	0.0043	128.306	0.0043	212.333	0.0043	128.363	0.0043	164.713	0.0043	110.167
	0.0047	214.098	0.0047	108.281	0.0047	208.371	0.0047	125.609	0.0047	214.098	0.0047	125.634	0.0047	160.726	0.0047	108.355

0.0052	211.84 8	0.0052	108.51 9	0.0052	206.05 8	0.0052	125.85 5	0.0052	211.84 8	0.0052	125.89 1	0.0052	160.54 5	0.0052	108.56 5
0.0057	212.41 3	0.0057	108.77 2	0.0057	206.63 6	0.0057	126.18 1	0.0057	212.41 3	0.0057	126.17 5	0.0057	160.91 9	0.0057	108.77
0.0063	212.95	0.0063	108.99 7	0.0063	207.20 9	0.0063	126.48 3	0.0063	212.95	0.0063	126.49 5	0.0063	161.33 6	0.0063	109.00 7
0.0069	213.58 3	0.0069	109.24 5	0.0069	207.68 6	0.0069	126.78 6	0.0069	213.58 3	0.0069	126.75 8	0.0069	161.70 8	0.0069	109.25 7
0.0076	214.10 6	0.0076	109.66 8	0.0076	208.26 6	0.0076	127.15 1	0.0076	214.10 6	0.0076	127.13 1	0.0076	162.13 7	0.0076	109.67 4
0.0084	216.01 8	0.0084	110.87 8	0.0084	210.05 4	0.0084	128.55 4	0.0084	216.01 8	0.0084	128.54 7	0.0084	163.87 7	0.0084	110.87 6
0.0092	218.58	0.0092	112.19 4	0.0092	212.53 3	0.0092	130.09 9	0.0092	218.58	0.0092	130.00 9	0.0092	165.82 6	0.0092	112.17
0.0101	221.37 5	0.0101	113.59 8	0.0101	215.18 5	0.0101	131.83 5	0.0101	221.37 5	0.0101	131.64	0.0101	167.90 9	0.0101	113.55 9
0.0112	224.37 4	0.0112	115.47 9	0.0112	218.03 4	0.0112	133.46 1	0.0112	224.37 4	0.0112	133.39 6	0.0112	170.15 8	0.0112	115.39 5
0.0123	227.48 1	0.0123	117.55 8	0.0123	221.05 4	0.0123	135.67 8	0.0123	227.48 1	0.0123	135.26 2	0.0123	172.53 7	0.0123	117.34
0.0135	230.81 6	0.0135	119.72 6	0.0135	224.30 4	0.0135	138.23 2	0.0135	230.81 6	0.0135	137.71 3	0.0135	175.13 2	0.0135	119.37
0.0148	234.41 9	0.0148	121.95 5	0.0148	227.75 6	0.0148	140.86 0.0148	0.0148	234.41 9	0.0148	140.28 8	0.0148	177.84 7	0.0148	121.49 6
0.0163	238.09 1	0.0163	124.21 4	0.0163	231.26 6	0.0163	143.53 3	0.0163	238.09 1	0.0163	142.88 6	0.0163	180.67	0.0163	123.67 1
0.0180	241.71 8	0.0180	126.62 6	0.0180	234.90 1	0.0180	146.36 7	0.0180	241.71 8	0.0180	145.62 1	0.0180	184.23 9	0.0180	125.94 7
0.0198	244.92 3	0.0198	129.16	0.0198	238.19 3	0.0198	149.08 2	0.0198	244.92 3	0.0198	148.44 5	0.0198	188.17 7	0.0198	128.35 8
0.0217	248.13 6	0.0217	131.67 3	0.0217	241.27 4	0.0217	151.4	0.0217	248.13 6	0.0217	150.79 5	0.0217	191.74	0.0217	130.71 9
0.0239	251.55 5	0.0239	133.86	0.0239	244.35 4	0.0239	153.58 8	0.0239	251.55 5	0.0239	153.04 1	0.0239	194.70 8	0.0239	132.74 1
0.0263	254.94 1	0.0263	135.89 5	0.0263	247.65 3	0.0263	155.75 4	0.0263	254.94 1	0.0263	155.19 3	0.0263	197.62 7	0.0263	134.68 4
0.0289	258.25 2	0.0289	137.90 2	0.0289	250.96 8	0.0289	157.95 5	0.0289	258.25 2	0.0289	157.37 5	0.0289	200.45	0.0289	136.60 9
0.0318	261.66 1	0.0318	139.95 2	0.0318	254.29 4	0.0318	160.21 4	0.0318	261.66 1	0.0318	159.60 2	0.0318	203.30 5	0.0318	138.58 5
0.0350	265.14 8	0.0350	142.05 1	0.0350	257.66 9	0.0350	162.54	0.0350	265.14 8	0.0350	161.92 6	0.0350	206.18 9	0.0350	140.61 8
0.0385	268.64 2	0.0385	144.26 8	0.0385	261.17 2	0.0385	165.01 8	0.0385	268.64 2	0.0385	164.31 9	0.0385	209.17 7	0.0385	142.74 6
0.0424	272.11 5	0.0424	146.59 2	0.0424	264.60 9	0.0424	167.59 4	0.0424	272.11 5	0.0424	166.82 3	0.0424	212.22 1	0.0424	144.97

	0.0466	275.52 7	0.0466	148.91 9	0.0466	268.03 7	0.0466	170.22 4	0.0466	275.52 7	0.0466	169.45 8	0.0466	215.12 1	0.0466	147.29 1
	0.0513	278.86 9	0.0513	151.36 1	0.0513	271.39 5	0.0513	172.89 9	0.0513	278.86 9	0.0513	172.13 6	0.0513	218.00 6	0.0513	149.72 9
	0.0564	281.91 3	0.0564	153.79 2	0.0564	274.59 2	0.0564	175.52 1	0.0564	281.91 3	0.0564	174.79 5	0.0564	220.77 3	0.0564	152.19 7
	0.0620	284.77 1	0.0620	156.22 8	0.0620	277.64 7	0.0620	178.10 5	0.0620	284.77 1	0.0620	177.43 5	0.0620	223.33 8	0.0620	154.66 8
	0.0682	287.39	0.0682	158.52 7	0.0682	280.43 7	0.0682	180.51 9	0.0682	287.39	0.0682	179.95 2	0.0682	225.65 1	0.0682	157.13 6
	0.0750	289.77 3	0.0750	160.64 1	0.0750	283.02	0.0750	182.64 4	0.0750	289.77 3	0.0750	182.25 5	0.0750	227.67 9	0.0750	159.43 2
	0.0825	291.98 7	0.0825	162.47 8	0.0825	285.40 8	0.0825	184.42	0.0825	291.98 7	0.0825	184.22 4	0.0825	229.41 5	0.0825	161.52 9
	0.0908	294.10 2	0.0908	163.93 9	0.0908	287.65 9	0.0908	185.78 3	0.0908	294.10 2	0.0908	185.82 2	0.0908	230.89 6	0.0908	163.31 2
	0.0999	296.28 9	0.0999	164.91 4	0.0999	289.83 5	0.0999	186.71 6	0.0999	296.28 9	0.0999	186.95 5	0.0999	232.16 7	0.0999	164.61 8
φmax - Mmax	0.0999	296.29	0.0999	164.91	0.0999	289.84	0.0999	186.72	0.0999	296.29	0.0999	186.96	0.0999	232.17	0.0999	164.62
φy - My	0.0052	211.85	0.0043	110.05	0.0052	206.06	0.0043	128.31	0.0052	211.85	0.0043	128.36	0.0047	160.73	0.0043	110.17
μ	19.19		23.22		19.19		23.22		19.19		23.22		21.11		23.22	

Modelo	MF12N												MG14N			
Grupo de elementos	Viga 97 98 99 100				Viga 101 102 103 104				Viga 105 106 107 108				3 9 13 15			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	56.455	0.0002	55.112	0.0002	55.915	0.0002	55.112	0.0002	57.268	0.0002	55.112	0.0002	57.727	0.0002	55.983
	0.0006	82.748	0.0006	75.109	0.0006	77.138	0.0006	75.109	0.0006	88.486	0.0006	75.109	0.0006	90.913	0.0006	81.245
	0.0009	87.575	0.0009	67.954	0.0009	70.54	0.0009	67.954	0.0009	99.386	0.0009	67.954	0.0009	104.355	0.0009	88.066

0.0012	86.128	0.0012	67.846	0.0012	70.438	0.0012	67.846	0.0012	108.19 6	0.0012	67.846	0.0012	115.86 5	0.0012	92.143
0.0016	85.142	0.0016	69.761	0.0016	72.255	0.0016	69.761	0.0016	116.74 7	0.0016	69.761	0.0016	127.18 8	0.0016	93.18
0.0019	89.166	0.0019	72.296	0.0019	74.663	0.0019	72.296	0.0019	122.96 3	0.0019	72.296	0.0019	138.64 7	0.0019	94.334
0.0022	93.644	0.0022	75.253	0.0022	77.432	0.0022	75.253	0.0022	126.78 7	0.0022	75.253	0.0022	150.38 8	0.0022	99.312
0.0026	98.31	0.0026	78.354	0.0026	80.339	0.0026	78.354	0.0026	130.20 7	0.0026	78.354	0.0026	161.26 6	0.0026	105.30 6
0.0029	102.98 6	0.0029	81.476	0.0029	83.219	0.0029	81.476	0.0029	137.66 5	0.0029	81.476	0.0029	168.27 1	0.0029	111.35 4
0.0032	107.49 3	0.0032	84.401	0.0032	85.693	0.0032	84.401	0.0032	145.72 1	0.0032	84.401	0.0032	174.22 4	0.0032	117.39 3
0.0036	111.45 1	0.0036	86.133	0.0036	86.022	0.0036	86.133	0.0036	153.47	0.0036	86.133	0.0036	185.05 3	0.0036	123.16
0.0039	112.26 4	0.0039	84.44	0.0039	84.213	0.0039	84.44	0.0039	161.00 4	0.0039	84.44	0.0039	196.21 8	0.0039	128.47 6
0.0043	109.83 3	0.0043	82.769	0.0043	82.627	0.0043	82.769	0.0043	164.71 3	0.0043	82.769	0.0043	207.11 5	0.0043	128.30 6
0.0047	108.18 4	0.0047	81.931	0.0047	81.899	0.0047	81.931	0.0047	160.72 6	0.0047	81.931	0.0047	208.37 1	0.0047	125.60 9
0.0052	108.41 8	0.0052	82.081	0.0052	82.048	0.0052	82.081	0.0052	160.54 5	0.0052	82.081	0.0052	206.05 8	0.0052	125.85 5
0.0057	108.68 3	0.0057	82.267	0.0057	82.256	0.0057	82.267	0.0057	160.91 9	0.0057	82.267	0.0057	206.63 6	0.0057	126.18 1
0.0063	108.95	0.0063	82.399	0.0063	82.444	0.0063	82.399	0.0063	161.33 6	0.0063	82.399	0.0063	207.20 9	0.0063	126.48 3
0.0069	109.22 1	0.0069	82.594	0.0069	82.679	0.0069	82.594	0.0069	161.70 8	0.0069	82.594	0.0069	207.68 6	0.0069	126.78 6
0.0076	109.67	0.0076	83.021	0.0076	83.162	0.0076	83.021	0.0076	162.13 7	0.0076	83.021	0.0076	208.26 6	0.0076	127.15 1
0.0084	110.92 4	0.0084	84.216	0.0084	84.377	0.0084	84.216	0.0084	163.87 7	0.0084	84.216	0.0084	210.05 4	0.0084	128.55 4
0.0092	112.27 3	0.0092	85.622	0.0092	86.103	0.0092	85.622	0.0092	165.82 6	0.0092	85.622	0.0092	212.53 3	0.0092	130.09 9
0.0101	113.72 9	0.0101	87.038	0.0101	87.872	0.0101	87.038	0.0101	167.90 9	0.0101	87.038	0.0101	215.18 5	0.0101	131.83 5
0.0112	115.66 3	0.0112	88.488	0.0112	89.665	0.0112	88.488	0.0112	170.15 8	0.0112	88.488	0.0112	218.03 4	0.0112	133.46 1
0.0123	118.04 7	0.0123	90.014	0.0123	91.486	0.0123	90.014	0.0123	172.53 7	0.0123	90.014	0.0123	221.05 4	0.0123	135.67 8
0.0135	120.52 2	0.0135	91.599	0.0135	93.366	0.0135	91.599	0.0135	175.13 2	0.0135	91.599	0.0135	224.30 4	0.0135	138.23 2
0.0148	123.05	0.0148	93.258	0.0148	95.317	0.0148	93.258	0.0148	177.84 7	0.0148	93.258	0.0148	227.75 6	0.0148	140.86

0.0163	125.63	0.0163	94.917	0.0163	97.312	0.0163	94.917	0.0163	180.67	0.0163	94.917	0.0163	231.26 6	0.0163	143.53 3	
0.0180	128.30 3	0.0180	96.701	0.0180	99.355	0.0180	96.701	0.0180	184.23 9	0.0180	96.701	0.0180	234.90 1	0.0180	146.36 7	
0.0198	131.07 7	0.0198	98.562	0.0198	101.46 9	0.0198	98.562	0.0198	188.17 7	0.0198	98.562	0.0198	238.19 3	0.0198	149.08 2	
0.0217	133.86 8	0.0217	100.51 3	0.0217	103.67 4	0.0217	100.51 3	0.0217	191.74	0.0217	100.51 3	0.0217	241.27 4	0.0217	151.4	
0.0239	136.23 7	0.0239	102.49 3	0.0239	105.77 8	0.0239	102.49 3	0.0239	194.70 8	0.0239	102.49 3	0.0239	244.35 4	0.0239	153.58 8	
0.0263	138.45 8	0.0263	104.22 7	0.0263	107.65 6	0.0263	104.22 7	0.0263	197.62 7	0.0263	104.22 7	0.0263	247.65 3	0.0263	155.75 4	
0.0289	140.63 8	0.0289	105.90 7	0.0289	109.47 4	0.0289	105.90 7	0.0289	200.45	0.0289	105.90 7	0.0289	250.96 8	0.0289	157.95 5	
0.0318	142.83 1	0.0318	107.57 5	0.0318	111.29 3	0.0318	107.57 5	0.0318	203.30 5	0.0318	107.57 5	0.0318	254.29 4	0.0318	160.21 4	
0.0350	145.08 7	0.0350	109.28 8	0.0350	113.15 5	0.0350	109.28 8	0.0350	206.18 9	0.0350	109.28 8	0.0350	257.66 9	0.0350	162.54	
0.0385	147.36 9	0.0385	111.05 6	0.0385	115.07 8	0.0385	111.05 6	0.0385	209.17 7	0.0385	111.05 6	0.0385	261.17 2	0.0385	165.01 8	
0.0424	149.75	0.0424	112.89 8	0.0424	117.08 6	0.0424	112.89 8	0.0424	212.22 1	0.0424	112.89 8	0.0424	264.60 9	0.0424	167.59 4	
0.0466	152.15 3	0.0466	114.81 1	0.0466	119.12 3	0.0466	114.81 1	0.0466	215.12 1	0.0466	114.81 1	0.0466	268.03 7	0.0466	170.22 4	
0.0513	154.51 3	0.0513	116.84	0.0513	121.19	0.0513	116.84	0.0513	218.00 6	0.0513	116.84	0.0513	271.39 5	0.0513	172.89 9	
0.0564	156.79 3	0.0564	118.88 2	0.0564	123.21 4	0.0564	118.88 2	0.0564	220.77 3	0.0564	118.88 2	0.0564	274.59 2	0.0564	175.52 1	
0.0620	158.93 2	0.0620	120.99 5	0.0620	125.15 1	0.0620	120.99 5	0.0620	223.33 8	0.0620	120.99 5	0.0620	277.64 7	0.0620	178.10 5	
0.0682	160.84 2	0.0682	123.06 8	0.0682	126.91 2	0.0682	123.06 8	0.0682	225.65 1	0.0682	123.06 8	0.0682	280.43 7	0.0682	180.51 9	
0.0750	162.44	0.0750	124.89 2	0.0750	128.43 2	0.0750	124.89 2	0.0750	227.67 9	0.0750	124.89 2	0.0750	283.02	0.0750	182.64 4	
0.0825	163.67 1	0.0825	126.48 7	0.0825	129.60 6	0.0825	126.48 7	0.0825	229.41 5	0.0825	126.48 7	0.0825	285.40 8	0.0825	184.42	
0.0908	164.52	0.0908	127.94 8	0.0908	130.36 8	0.0908	127.94 8	0.0908	230.89 6	0.0908	127.94 8	0.0908	287.65 9	0.0908	185.78 3	
0.0999	164.99 4	0.0999	129.14 4	0.0999	130.62 7	0.0999	129.14 4	0.0999	232.16 7	0.0999	129.14 4	0.0999	289.83 5	0.0999	186.71 6	
φmax - Mmax	0.0999	164.99	0.0999	129.14	0.0999	130.63	0.0999	129.14	0.0999	232.17	0.0999	129.14	0.0999	289.84	0.0999	186.72
φy - My	0.0043	109.83	0.0039	84.44	0.0039	84.21	0.0039	84.44	0.0047	160.73	0.0039	84.44	0.0052	206.06	0.0039	128.48

μ	23.22		25.55		25.55		25.55		21.11		25.55		19.19		25.55	
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Modelo	MG14N															
Grupo de elementos	Viga 6 12 14 16 49 50 51 52				Viga 31 32 33 34				Viga 35 36 37 38				Viga 53 54 55 56			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	58.348	0.0002	56.731	0.0002	58.753	0.0002	56.772	0.0002	58.552	0.0002	56.772	0.0002	58.141	0.0002	56.46
	0.0006	93.605	0.0006	87.486	0.0006	92.665	0.0006	86.529	0.0006	93.511	0.0006	86.529	0.0006	92.87	0.0006	86.859
	0.0009	108.229	0.0009	98.064	0.0009	107.58	0.0009	96.928	0.0009	107.927	0.0009	96.928	0.0009	107.106	0.0009	97.185
	0.0012	120.575	0.0012	106.733	0.0012	120.672	0.0012	105.664	0.0012	120.174	0.0012	105.664	0.0012	119.243	0.0012	105.751
	0.0016	132.547	0.0016	115.207	0.0016	133.66	0.0016	114.331	0.0016	132.077	0.0016	114.331	0.0016	131.136	0.0016	114.161
	0.0019	144.579	0.0019	121.437	0.0019	146.847	0.0019	122.733	0.0019	144.096	0.0019	122.733	0.0019	143.12	0.0019	120.361
	0.0022	156.807	0.0022	125.344	0.0022	160.286	0.0022	127.75	0.0022	156.293	0.0022	127.75	0.0022	155.305	0.0022	124.305
	0.0026	168.268	0.0026	128.847	0.0026	173.948	0.0026	131.857	0.0026	167.627	0.0026	131.857	0.0026	166.673	0.0026	127.888
	0.0029	175.355	0.0029	136.347	0.0029	187.384	0.0029	138.463	0.0029	174.688	0.0029	138.463	0.0029	173.779	0.0029	135.412
	0.0032	181.264	0.0032	144.464	0.0032	196.401	0.0032	146.999	0.0032	180.607	0.0032	146.999	0.0032	179.82	0.0032	143.6
	0.0036	191.688	0.0036	152.376	0.0036	204.44	0.0036	155.359	0.0036	191.235	0.0036	155.359	0.0036	190.338	0.0036	151.615
	0.0039	203.02	0.0039	160.117	0.0039	217.692	0.0039	163.705	0.0039	202.595	0.0039	163.705	0.0039	201.884	0.0039	159.514
	0.0043	213.942	0.0043	165.003	0.0043	231.151	0.0043	170.589	0.0043	213.612	0.0043	170.589	0.0043	213.063	0.0043	165.2
	0.0047	214.054	0.0047	160.987	0.0047	239.093	0.0047	166.87	0.0047	213.877	0.0047	166.87	0.0047	214.133	0.0047	161.048
	0.0052	211.831	0.0052	160.602	0.0052	235.169	0.0052	166.257	0.0052	211.737	0.0052	166.257	0.0052	211.873	0.0052	160.679

0.0057	212.43 8	0.0057	161.03 2	0.0057	235.78 3	0.0057	166.67 5	0.0057	212.32 4	0.0057	166.67 5	0.0057	212.42 2	0.0057	161.09 1
0.0063	212.95 4	0.0063	161.40 9	0.0063	236.43 5	0.0063	167.03 4	0.0063	212.92 5	0.0063	167.03 4	0.0063	213.01 3	0.0063	161.48 6
0.0069	213.52	0.0069	161.81 2	0.0069	237.11 1	0.0069	167.47	0.0069	213.48 5	0.0069	167.47	0.0069	213.58 8	0.0069	161.87 9
0.0076	214.07 7	0.0076	162.24 1	0.0076	237.73 9	0.0076	167.87 2	0.0076	214.03 5	0.0076	167.87 2	0.0076	214.15 4	0.0076	162.29 1
0.0084	215.96 9	0.0084	163.95 7	0.0084	239.52	0.0084	169.57 5	0.0084	215.95 6	0.0084	169.57 5	0.0084	216.01	0.0084	163.99 7
0.0092	218.56 7	0.0092	165.84 9	0.0092	242.33 7	0.0092	171.52 7	0.0092	218.47 3	0.0092	171.52 7	0.0092	218.59 8	0.0092	165.92 5
0.0101	221.29 9	0.0101	167.96 2	0.0101	245.33 9	0.0101	173.71 5	0.0101	221.27 8	0.0101	173.71 5	0.0101	221.33 5	0.0101	167.94 4
0.0112	224.21 3	0.0112	170.17 3	0.0112	248.61 9	0.0112	176.00 5	0.0112	224.20 3	0.0112	176.00 5	0.0112	224.26 8	0.0112	170.22 4
0.0123	227.32 2	0.0123	172.54 4	0.0123	252.04 8	0.0123	178.45 1	0.0123	227.32 3	0.0123	178.45 1	0.0123	227.45 7	0.0123	172.56 5
0.0135	230.65 4	0.0135	175.08 8	0.0135	255.70 9	0.0135	181.06 7	0.0135	230.66 4	0.0135	181.06 7	0.0135	230.76 6	0.0135	175.08 5
0.0148	234.17 8	0.0148	177.80 6	0.0148	259.61 8	0.0148	183.86 7	0.0148	234.24 1	0.0148	183.86 7	0.0148	234.32 6	0.0148	177.78 9
0.0163	237.89 6	0.0163	180.65 2	0.0163	263.55	0.0163	186.75	0.0163	237.94 7	0.0163	186.75	0.0163	237.98 4	0.0163	180.61 8
0.0180	241.74 8	0.0180	184.07 9	0.0180	266.94 1	0.0180	190.02 2	0.0180	241.80 1	0.0180	190.02 2	0.0180	241.81 1	0.0180	184.03 3
0.0198	245.44	0.0198	187.82	0.0198	270.23 5	0.0198	193.65	0.0198	245.38 5	0.0198	193.65	0.0198	245.16 6	0.0198	187.54
0.0217	248.76 3	0.0217	190.95 9	0.0217	273.45 6	0.0217	196.68 5	0.0217	248.76 5	0.0217	196.68 5	0.0217	248.42 6	0.0217	190.44
0.0239	252.03 5	0.0239	193.81 4	0.0239	276.71 6	0.0239	199.53 6	0.0239	252.08 7	0.0239	199.53 6	0.0239	251.71 8	0.0239	193.18 7
0.0263	255.47 7	0.0263	196.53 5	0.0263	280.08 5	0.0263	202.22 4	0.0263	255.62 3	0.0263	202.22 4	0.0263	255.16	0.0263	195.86
0.0289	258.97 2	0.0289	199.27 1	0.0289	283.69 9	0.0289	204.98 5	0.0289	259.10 2	0.0289	204.98 5	0.0289	258.58 5	0.0289	198.53 5
0.0318	262.44	0.0318	202.04 6	0.0318	287.33 6	0.0318	207.79 7	0.0318	262.68	0.0318	207.79 7	0.0318	262.02 5	0.0318	201.22 2
0.0350	265.99	0.0350	204.86 6	0.0350	291.05 4	0.0350	210.67 9	0.0350	266.14 2	0.0350	210.67 9	0.0350	265.52 8	0.0350	204.03 2
0.0385	269.54	0.0385	207.84 5	0.0385	294.82 3	0.0385	213.64	0.0385	269.64 7	0.0385	213.64	0.0385	268.96 6	0.0385	206.91 4
0.0424	273.02 7	0.0424	210.76 7	0.0424	298.49 5	0.0424	216.73 7	0.0424	273.08 6	0.0424	216.73 7	0.0424	272.48 4	0.0424	209.93
0.0466	276.43 5	0.0466	213.81 7	0.0466	302.08	0.0466	219.79 7	0.0466	276.5	0.0466	219.79 7	0.0466	275.92 4	0.0466	212.97 5

	0.0513	279.78 9	0.0513	216.79 8	0.0513	305.58 3	0.0513	222.83 6	0.0513	279.71 8	0.0513	222.83 6	0.0513	279.24 6	0.0513	215.98 4
	0.0564	282.95 9	0.0564	219.72 5	0.0564	308.88 6	0.0564	225.77 9	0.0564	282.79 4	0.0564	225.77 9	0.0564	282.37	0.0564	218.98 3
	0.0620	285.94 5	0.0620	222.47 4	0.0620	312.00 5	0.0620	228.64 9	0.0620	285.62 1	0.0620	228.64 9	0.0620	285.29 8	0.0620	221.85 4
	0.0682	288.72	0.0682	225.00 9	0.0682	314.96 5	0.0682	231.23	0.0682	288.29 3	0.0682	231.23	0.0682	287.98 8	0.0682	224.52 5
	0.0750	291.32 7	0.0750	227.25 4	0.0750	317.80 8	0.0750	233.54 5	0.0750	290.77 6	0.0750	233.54 5	0.0750	290.47	0.0750	226.91 8
	0.0825	293.77 8	0.0825	229.15 7	0.0825	320.61 5	0.0825	235.53 3	0.0825	293.11 2	0.0825	235.53 3	0.0825	292.83 3	0.0825	228.89 6
	0.0908	296.20 6	0.0908	230.73 6	0.0908	323.42 3	0.0908	237.19 3	0.0908	295.44 5	0.0908	237.19 3	0.0908	295.13	0.0908	230.56 2
	0.0999	298.57 5	0.0999	232.05 4	0.0999	326.31 7	0.0999	238.54 2	0.0999	297.72 5	0.0999	238.54 2	0.0999	297.33 1	0.0999	231.93
φmax - Mmax	0.0999	298.58	0.0999	232.05	0.0999	326.32	0.0999	238.54	0.0999	297.73	0.0999	238.54	0.0999	297.33	0.0999	231.93
φy - My	0.0052	211.83	0.0047	160.99	0.0052	235.17	0.0047	166.87	0.0052	211.74	0.0047	166.87	0.0052	211.87	0.0047	161.05
μ	19.19		21.11		19.19		21.11		19.19		21.11		19.19		21.11	

Modelo	MG14N															
Grupo de elementos	Viga 67 68 69 70				Viga 71 72 73 74				Viga 93 94 95 96				Viga 97 98 99 100			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	58.009	0.0002	56.356	0.0002	58.009	0.0002	56.087	0.0002	57.727	0.0002	55.817	0.0002	57.31	0.0002	55.652
	0.0006	92.196	0.0006	85.97	0.0006	92.196	0.0006	83.634	0.0006	90.913	0.0006	81.317	0.0006	87.461	0.0006	81.028
	0.0009	106.13 3	0.0009	95.841	0.0009	106.13 3	0.0009	91.661	0.0009	104.35 5	0.0009	88.265	0.0009	98.139	0.0009	85.271
	0.0012	118.13 2	0.0012	104.16 5	0.0012	118.13 2	0.0012	98.001	0.0012	115.86 5	0.0012	92.458	0.0012	107.02 9	0.0012	83.686

0.0016	129.91 7	0.0016	112.49	0.0016	129.91 7	0.0016	99.934	0.0016	127.18 8	0.0016	93.541	0.0016	115.71	0.0016	82.782
0.0019	141.79 8	0.0019	118.50 5	0.0019	141.79 8	0.0019	101.70 9	0.0019	138.64 7	0.0019	94.695	0.0019	124.12 4	0.0019	86.91
0.0022	153.98 7	0.0022	122.45 9	0.0022	153.98 7	0.0022	104.8	0.0022	150.38 8	0.0022	99.587	0.0022	129.08 1	0.0022	91.497
0.0026	165.28 9	0.0026	126.17 4	0.0026	165.28 9	0.0026	111.36 1	0.0026	161.26 6	0.0026	105.54 6	0.0026	133.12 3	0.0026	96.311
0.0029	172.42 3	0.0029	133.91 8	0.0029	172.42 3	0.0029	117.99 7	0.0029	168.27 1	0.0029	111.61 4	0.0029	139.70 1	0.0029	101.17 9
0.0032	178.56	0.0032	142.17	0.0032	178.56	0.0032	124.57 8	0.0032	174.22 4	0.0032	117.63 2	0.0032	148.17 8	0.0032	105.89 9
0.0036	189.22	0.0036	150.32 2	0.0036	189.22	0.0036	130.87 3	0.0036	185.05 3	0.0036	123.36 5	0.0036	156.44 3	0.0036	110.24 5
0.0039	200.82 1	0.0039	158.42 7	0.0039	200.82 1	0.0039	136.84 4	0.0039	196.21 8	0.0039	128.64 6	0.0039	164.58 4	0.0039	112.58 5
0.0043	212.33 3	0.0043	164.95 9	0.0043	212.33 3	0.0043	137.51 1	0.0043	207.11 5	0.0043	128.36 1	0.0043	170.78 4	0.0043	110.05 3
0.0047	214.09 8	0.0047	161.07 7	0.0047	214.09 8	0.0047	134.43 6	0.0047	208.37 1	0.0047	125.63 4	0.0047	166.65 8	0.0047	108.28 1
0.0052	211.84 8	0.0052	160.72 5	0.0052	211.84 8	0.0052	134.66 4	0.0052	206.05 8	0.0052	125.89 1	0.0052	166.1	0.0052	108.51 9
0.0057	212.41 3	0.0057	161.09 2	0.0057	212.41 3	0.0057	135.03 4	0.0057	206.63 6	0.0057	126.17 5	0.0057	166.59 7	0.0057	108.77 2
0.0063	212.95	0.0063	161.52 3	0.0063	212.95	0.0063	135.34 5	0.0063	207.20 9	0.0063	126.49 5	0.0063	166.90 8	0.0063	108.99 7
0.0069	213.58 3	0.0069	161.87 3	0.0069	213.58 3	0.0069	135.68 4	0.0069	207.68 6	0.0069	126.75 8	0.0069	167.36 8	0.0069	109.24 5
0.0076	214.10 6	0.0076	162.32	0.0076	214.10 6	0.0076	136.06 9	0.0076	208.26 6	0.0076	127.13 1	0.0076	167.79 7	0.0076	109.66 8
0.0084	216.01 8	0.0084	164.02 4	0.0084	216.01 8	0.0084	137.57 5	0.0084	210.05 4	0.0084	128.54 7	0.0084	169.49 9	0.0084	110.87 8
0.0092	218.58	0.0092	165.93 6	0.0092	218.58	0.0092	139.21	0.0092	212.53 3	0.0092	130.00 9	0.0092	171.48 1	0.0092	112.19 4
0.0101	221.37 5	0.0101	168.03 2	0.0101	221.37 5	0.0101	140.94 9	0.0101	215.18 5	0.0101	131.64	0.0101	173.65	0.0101	113.59 8
0.0112	224.37 4	0.0112	170.24 7	0.0112	224.37 4	0.0112	142.83 2	0.0112	218.03 4	0.0112	133.39 6	0.0112	175.95 1	0.0112	115.47 9
0.0123	227.48 1	0.0123	172.61 9	0.0123	227.48 1	0.0123	144.81 4	0.0123	221.05 4	0.0123	135.26 2	0.0123	178.41 7	0.0123	117.55 8
0.0135	230.81 6	0.0135	175.15 3	0.0135	230.81 6	0.0135	147.40 7	0.0135	224.30 4	0.0135	137.71 3	0.0135	181.05 5	0.0135	119.72 6
0.0148	234.41 9	0.0148	177.83 7	0.0148	234.41 9	0.0148	150.20 6	0.0148	227.75 6	0.0148	140.28 8	0.0148	183.84 8	0.0148	121.95 5
0.0163	238.09 1	0.0163	180.90 5	0.0163	238.09 1	0.0163	153.07 5	0.0163	231.26 6	0.0163	142.88 6	0.0163	186.80 6	0.0163	124.21 4

0.0180	241.71 8	0.0180	184.40 4	0.0180	241.71 8	0.0180	156.06 8	0.0180	234.90 1	0.0180	145.62 1	0.0180	190.07 8	0.0180	126.62 6	
0.0198	244.92 3	0.0198	187.43 3	0.0198	244.92 3	0.0198	159.04 3	0.0198	238.19 3	0.0198	148.44 5	0.0198	193.99 8	0.0198	129.16	
0.0217	248.13 6	0.0217	190.11 3	0.0217	248.13 6	0.0217	161.48 3	0.0217	241.27 4	0.0217	150.79 5	0.0217	197.35 9	0.0217	131.67 3	
0.0239	251.55 5	0.0239	192.73 8	0.0239	251.55 5	0.0239	163.84 4	0.0239	244.35 4	0.0239	153.04 1	0.0239	200.34 4	0.0239	133.86	
0.0263	254.94 1	0.0263	195.31 5	0.0263	254.94 1	0.0263	166.13 8	0.0263	247.65 3	0.0263	155.19 3	0.0263	203.22 2	0.0263	135.89 5	
0.0289	258.25 2	0.0289	197.89 4	0.0289	258.25 2	0.0289	168.45 7	0.0289	250.96 8	0.0289	157.37 5	0.0289	206.06 9	0.0289	137.90 2	
0.0318	261.66 1	0.0318	200.57 1	0.0318	261.66 1	0.0318	170.84 9	0.0318	254.29 4	0.0318	159.60 2	0.0318	208.94 6	0.0318	139.95 2	
0.0350	265.14 8	0.0350	203.38 4	0.0350	265.14 8	0.0350	173.3	0.0350	257.66 9	0.0350	161.92 6	0.0350	211.87 8	0.0350	142.05 1	
0.0385	268.64 2	0.0385	206.30 7	0.0385	268.64 2	0.0385	175.88 5	0.0385	261.17 2	0.0385	164.31 9	0.0385	214.92 9	0.0385	144.26 8	
0.0424	272.11 5	0.0424	209.22 6	0.0424	272.11 5	0.0424	178.53 8	0.0424	264.60 9	0.0424	166.82 3	0.0424	217.91 4	0.0424	146.59 2	
0.0466	275.52 7	0.0466	212.31 4	0.0466	275.52 7	0.0466	181.31 9	0.0466	268.03 7	0.0466	169.45 8	0.0466	220.97 8	0.0466	148.91 9	
0.0513	278.86 9	0.0513	215.39	0.0513	278.86 9	0.0513	184.09 5	0.0513	271.39 5	0.0513	172.13 6	0.0513	223.92 1	0.0513	151.36 1	
0.0564	281.91 3	0.0564	218.40 4	0.0564	281.91 3	0.0564	186.82 4	0.0564	274.59 2	0.0564	174.79 5	0.0564	226.76	0.0564	153.79 2	
0.0620	284.77 1	0.0620	221.31 7	0.0620	284.77 1	0.0620	189.47 8	0.0620	277.64 7	0.0620	177.43 5	0.0620	229.39 1	0.0620	156.22 8	
0.0682	287.39	0.0682	223.99	0.0682	287.39	0.0682	191.94 7	0.0682	280.43 7	0.0682	179.95 2	0.0682	231.78 5	0.0682	158.52 7	
0.0750	289.77 3	0.0750	226.40 3	0.0750	289.77 3	0.0750	194.16 5	0.0750	283.02	0.0750	182.25 5	0.0750	233.86 8	0.0750	160.64 1	
0.0825	291.98 7	0.0825	228.41 7	0.0825	291.98 7	0.0825	195.98 9	0.0825	285.40 8	0.0825	184.22 4	0.0825	235.70 1	0.0825	162.47 8	
0.0908	294.10 2	0.0908	230.04 2	0.0908	294.10 2	0.0908	197.39 9	0.0908	287.65 9	0.0908	185.82 2	0.0908	237.29	0.0908	163.93 9	
0.0999	296.28 9	0.0999	231.26 7	0.0999	296.28 9	0.0999	198.38 3	0.0999	289.83 5	0.0999	186.95 5	0.0999	238.65 7	0.0999	164.91 4	
φmax - Mmax	0.0999	296.29	0.0999	231.27	0.0999	296.29	0.0999	198.38	0.0999	289.84	0.0999	186.96	0.0999	238.66	0.0999	164.91
φy - My	0.0052	211.85	0.0047	161.08	0.0052	211.85	0.0047	134.44	0.0052	206.06	0.0043	128.36	0.0047	166.66	0.0043	110.05
μ	19.19		21.11		19.19		21.11		19.19		23.22		21.11		23.22	

Modelo	MG14N															
Grupo de elementos	Viga 101 102 103 104				Viga 105 106 107 108				Viga 121 122 123 124				Viga 125 126 127 128			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	57.268	0.0002	55.381	0.0002	56.335	0.0002	55.112	0.0002	55.915	0.0002	55.112	0.0002	55.381	0.0002	55.112
	0.0006	88.486	0.0006	80.059	0.0006	81.71	0.0006	75.109	0.0006	77.138	0.0006	75.109	0.0006	76.038	0.0006	75.109
	0.0009	99.386	0.0009	83.837	0.0009	85.992	0.0009	67.954	0.0009	70.54	0.0009	67.954	0.0009	69.165	0.0009	67.954
	0.0012	108.196	0.0012	82.096	0.0012	84.211	0.0012	67.846	0.0012	70.438	0.0012	67.846	0.0012	69.054	0.0012	67.846
	0.0016	116.747	0.0016	81.209	0.0016	83.221	0.0016	69.761	0.0016	72.255	0.0016	69.761	0.0016	70.916	0.0016	69.761
	0.0019	122.963	0.0019	85.458	0.0019	87.433	0.0019	72.296	0.0019	74.663	0.0019	72.296	0.0019	73.415	0.0019	72.296
	0.0022	126.787	0.0022	90.116	0.0022	92.021	0.0022	75.253	0.0022	77.432	0.0022	75.253	0.0022	76.268	0.0022	75.253
	0.0026	130.207	0.0026	95	0.0026	96.789	0.0026	78.354	0.0026	80.339	0.0026	78.354	0.0026	79.285	0.0026	78.354
	0.0029	137.665	0.0029	99.999	0.0029	101.595	0.0029	81.476	0.0029	83.219	0.0029	81.476	0.0029	82.31	0.0029	81.476
	0.0032	145.721	0.0032	104.842	0.0032	106.26	0.0032	84.401	0.0032	85.693	0.0032	84.401	0.0032	85.038	0.0032	84.401
	0.0036	153.47	0.0036	109.386	0.0036	110.501	0.0036	86.133	0.0036	86.022	0.0036	86.133	0.0036	86.233	0.0036	86.133
	0.0039	161.004	0.0039	112.539	0.0039	112.301	0.0039	84.44	0.0039	84.213	0.0039	84.44	0.0039	84.371	0.0039	84.44
	0.0043	164.713	0.0043	110.167	0.0043	109.905	0.0043	82.769	0.0043	82.627	0.0043	82.769	0.0043	82.731	0.0043	82.769
	0.0047	160.726	0.0047	108.355	0.0047	108.199	0.0047	81.931	0.0047	81.899	0.0047	81.931	0.0047	81.912	0.0047	81.931
	0.0052	160.545	0.0052	108.565	0.0052	108.446	0.0052	82.081	0.0052	82.048	0.0052	82.081	0.0052	82.143	0.0052	82.081
	0.0057	160.919	0.0057	108.77	0.0057	108.748	0.0057	82.267	0.0057	82.256	0.0057	82.267	0.0057	82.244	0.0057	82.267

0.0063	161.33 6	0.0063	109.00 7	0.0063	109.02 7	0.0063	82.399	0.0063	82.444	0.0063	82.399	0.0063	82.451	0.0063	82.399
0.0069	161.70 8	0.0069	109.25 7	0.0069	109.30 9	0.0069	82.594	0.0069	82.679	0.0069	82.594	0.0069	82.625	0.0069	82.594
0.0076	162.13 7	0.0076	109.67 4	0.0076	109.77	0.0076	83.021	0.0076	83.162	0.0076	83.021	0.0076	83.075	0.0076	83.021
0.0084	163.87 7	0.0084	110.87 6	0.0084	111.06 2	0.0084	84.216	0.0084	84.377	0.0084	84.216	0.0084	84.29	0.0084	84.216
0.0092	165.82 6	0.0092	112.17	0.0092	112.42 1	0.0092	85.622	0.0092	86.103	0.0092	85.622	0.0092	85.823	0.0092	85.622
0.0101	167.90 9	0.0101	113.55 9	0.0101	114.43	0.0101	87.038	0.0101	87.872	0.0101	87.038	0.0101	87.36	0.0101	87.038
0.0112	170.15 8	0.0112	115.39 5	0.0112	116.75 6	0.0112	88.488	0.0112	89.665	0.0112	88.488	0.0112	88.951	0.0112	88.488
0.0123	172.53 7	0.0123	117.34	0.0123	119.14 8	0.0123	90.014	0.0123	91.486	0.0123	90.014	0.0123	90.585	0.0123	90.014
0.0135	175.13 2	0.0135	119.37	0.0135	121.58 6	0.0135	91.599	0.0135	93.366	0.0135	91.599	0.0135	92.266	0.0135	91.599
0.0148	177.84 7	0.0148	121.49 6	0.0148	124.10 4	0.0148	93.258	0.0148	95.317	0.0148	93.258	0.0148	94.009	0.0148	93.258
0.0163	180.67	0.0163	123.67 1	0.0163	126.70 9	0.0163	94.917	0.0163	97.312	0.0163	94.917	0.0163	95.793	0.0163	94.917
0.0180	184.23 9	0.0180	125.94 7	0.0180	129.35 4	0.0180	96.701	0.0180	99.355	0.0180	96.701	0.0180	97.673	0.0180	96.701
0.0198	188.17 7	0.0198	128.35 8	0.0198	132.05 5	0.0198	98.562	0.0198	101.46 9	0.0198	98.562	0.0198	99.628	0.0198	98.562
0.0217	191.74	0.0217	130.71 9	0.0217	134.35 5	0.0217	100.51 3	0.0217	103.67 4	0.0217	100.51 3	0.0217	101.66 9	0.0217	100.51 3
0.0239	194.70 8	0.0239	132.74 1	0.0239	136.49 9	0.0239	102.49 3	0.0239	105.77 8	0.0239	102.49 3	0.0239	103.72 4	0.0239	102.49 3
0.0263	197.62 7	0.0263	134.68 4	0.0263	138.62 4	0.0263	104.22 7	0.0263	107.65 6	0.0263	104.22 7	0.0263	105.56 3	0.0263	104.22 7
0.0289	200.45	0.0289	136.60 9	0.0289	140.74 1	0.0289	105.90 7	0.0289	109.47 4	0.0289	105.90 7	0.0289	107.29	0.0289	105.90 7
0.0318	203.30 5	0.0318	138.58 5	0.0318	142.92 3	0.0318	107.57 5	0.0318	111.29 3	0.0318	107.57 5	0.0318	109.03 2	0.0318	107.57 5
0.0350	206.18 9	0.0350	140.61 8	0.0350	145.16 8	0.0350	109.28 8	0.0350	113.15 5	0.0350	109.28 8	0.0350	110.79 6	0.0350	109.28 8
0.0385	209.17 7	0.0385	142.74 6	0.0385	147.54 8	0.0385	111.05 6	0.0385	115.07 8	0.0385	111.05 6	0.0385	112.64 9	0.0385	111.05 6
0.0424	212.22 1	0.0424	144.97	0.0424	149.90 6	0.0424	112.89 8	0.0424	117.08 6	0.0424	112.89 8	0.0424	114.54 7	0.0424	112.89 8
0.0466	215.12 1	0.0466	147.29 1	0.0466	152.33 1	0.0466	114.81 1	0.0466	119.12 3	0.0466	114.81 1	0.0466	116.54 2	0.0466	114.81 1
0.0513	218.00 6	0.0513	149.72 9	0.0513	154.72 4	0.0513	116.84	0.0513	121.19	0.0513	116.84	0.0513	118.58 8	0.0513	116.84

	0.0564	220.77 3	0.0564	152.19 7	0.0564	157.03 4	0.0564	118.88 2	0.0564	123.21 4	0.0564	118.88 2	0.0564	120.67 3	0.0564	118.88 2
	0.0620	223.33 8	0.0620	154.66 8	0.0620	159.16 5	0.0620	120.99 5	0.0620	125.15 1	0.0620	120.99 5	0.0620	122.75 2	0.0620	120.99 5
	0.0682	225.65 1	0.0682	157.13 6	0.0682	161.05	0.0682	123.06 8	0.0682	126.91 2	0.0682	123.06 8	0.0682	124.74 7	0.0682	123.06 8
	0.0750	227.67 9	0.0750	159.43 2	0.0750	162.57 6	0.0750	124.89 2	0.0750	128.43 2	0.0750	124.89 2	0.0750	126.59 8	0.0750	124.89 2
	0.0825	229.41 5	0.0825	161.52 9	0.0825	163.71 7	0.0825	126.48 7	0.0825	129.60 6	0.0825	126.48 7	0.0825	128.20 3	0.0825	126.48 7
	0.0908	230.89 6	0.0908	163.31 2	0.0908	164.40 5	0.0908	127.94 8	0.0908	130.36 8	0.0908	127.94 8	0.0908	129.41 4	0.0908	127.94 8
	0.0999	232.16 7	0.0999	164.61 8	0.0999	164.71 7	0.0999	129.14 4	0.0999	130.62 7	0.0999	129.14 4	0.0999	130.19 4	0.0999	129.14 4
φmax - Mmax	0.0999	232.17	0.0999	164.62	0.0999	164.72	0.0999	129.14	0.0999	130.63	0.0999	129.14	0.0999	130.19	0.0999	129.14
φy - My	0.0047	160.73	0.0043	110.17	0.0052	108.45	0.0039	84.44	0.0039	84.21	0.0039	84.44	0.0039	84.37	0.0039	84.44
μ	21.11		23.22		19.19		25.55		25.55		25.55		25.55		25.55	

Modelo	MH16N															
Grupo de elementos	Viga 3 9 13 15				Viga 6 12 14 16				Viga 31 32 33 34				Viga 35 36 37 38			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	57.811	0.0002	56.087	0.0002	58.753	0.0002	56.772	0.0002	58.753	0.0002	56.88	0.0002	58.793	0.0002	56.772
	0.0006	92.719	0.0006	83.634	0.0006	92.665	0.0006	86.529	0.0006	92.665	0.0006	86.212	0.0006	92.409	0.0006	86.529
	0.0009	107.12 2	0.0009	91.661	0.0009	107.58	0.0009	96.928	0.0009	107.58	0.0009	97.002	0.0009	107.11 2	0.0009	96.928
	0.0012	119.33 2	0.0012	98.001	0.0012	120.67 2	0.0012	105.66 4	0.0012	120.67 2	0.0012	106.3	0.0012	120.13 9	0.0012	105.66 4
	0.0016	131.24 3	0.0016	99.934	0.0016	133.66	0.0016	114.33 1	0.0016	133.66	0.0016	115.58 2	0.0016	133.07 2	0.0016	114.33 1

0.0019	143.23 6	0.0019	101.70 9	0.0019	146.84 7	0.0019	122.73 3	0.0019	146.84 7	0.0019	125.16 3	0.0019	146.23 2	0.0019	122.73 3
0.0022	155.43 4	0.0022	104.8	0.0022	160.28 6	0.0022	127.75	0.0022	160.28 6	0.0022	133.85 6	0.0022	159.65	0.0022	127.75
0.0026	166.95 5	0.0026	111.36 1	0.0026	173.94 8	0.0026	131.85 7	0.0026	173.94 8	0.0026	139.57 4	0.0026	173.31 4	0.0026	131.85 7
0.0029	174.12 9	0.0029	117.99 7	0.0029	187.38 4	0.0029	138.46 3	0.0029	187.38 4	0.0029	144.56 8	0.0029	186.65 1	0.0029	138.46 3
0.0032	180.09 2	0.0032	124.57 8	0.0032	196.40 1	0.0032	146.99 9	0.0032	196.40 1	0.0032	153.93 6	0.0032	195.67	0.0032	146.99 9
0.0036	190.47 8	0.0036	130.87 3	0.0036	204.44	0.0036	155.35 9	0.0036	204.44	0.0036	163.11 9	0.0036	203.86 6	0.0036	155.35 9
0.0039	201.94 7	0.0039	136.84 4	0.0039	217.69 2	0.0039	163.70 5	0.0039	217.69 2	0.0039	172.44 9	0.0039	217.10 8	0.0039	163.70 5
0.0043	213.19 2	0.0043	137.51 1	0.0043	231.15 1	0.0043	170.58 9	0.0043	231.15 1	0.0043	181.22 8	0.0043	230.72	0.0043	170.58 9
0.0047	214.35 2	0.0047	134.43 6	0.0047	239.09 3	0.0047	166.87	0.0047	239.09 3	0.0047	179.69 7	0.0047	239.09 3	0.0047	166.87
0.0052	211.99	0.0052	134.66 4	0.0052	235.16 9	0.0052	166.25 7	0.0052	235.16 9	0.0052	178.44 1	0.0052	235.07	0.0052	166.25 7
0.0057	212.54 7	0.0057	135.03 4	0.0057	235.78 3	0.0057	166.67 5	0.0057	235.78 3	0.0057	178.86 2	0.0057	235.71 2	0.0057	166.67 5
0.0063	213.14	0.0063	135.34 5	0.0063	236.43 5	0.0063	167.03 4	0.0063	236.43 5	0.0063	179.35 6	0.0063	236.33 3	0.0063	167.03 4
0.0069	213.63 9	0.0069	135.68 4	0.0069	237.11 1	0.0069	167.47	0.0069	237.11 1	0.0069	179.75 4	0.0069	237.04	0.0069	167.47
0.0076	214.23 8	0.0076	136.06 9	0.0076	237.73 9	0.0076	167.87 2	0.0076	237.73 9	0.0076	180.25 6	0.0076	237.7	0.0076	167.87 2
0.0084	216.09 3	0.0084	137.57 5	0.0084	239.52	0.0084	169.57 5	0.0084	239.52	0.0084	181.90 5	0.0084	239.39 9	0.0084	169.57 5
0.0092	218.67 3	0.0092	139.21	0.0092	242.33 7	0.0092	171.52 7	0.0092	242.33 7	0.0092	184.05 4	0.0092	242.33 5	0.0092	171.52 7
0.0101	221.40 4	0.0101	140.94 9	0.0101	245.33 9	0.0101	173.71 5	0.0101	245.33 9	0.0101	186.34 5	0.0101	245.36 1	0.0101	173.71 5
0.0112	224.31 5	0.0112	142.83 2	0.0112	248.61 9	0.0112	176.00 5	0.0112	248.61 9	0.0112	188.79 3	0.0112	248.58 9	0.0112	176.00 5
0.0123	227.42 7	0.0123	144.81 4	0.0123	252.04 8	0.0123	178.45 1	0.0123	252.04 8	0.0123	191.40 6	0.0123	252.07 1	0.0123	178.45 1
0.0135	230.74 9	0.0135	147.40 7	0.0135	255.70 9	0.0135	181.06 7	0.0135	255.70 9	0.0135	194.19 8	0.0135	255.72 4	0.0135	181.06 7
0.0148	234.30 4	0.0148	150.20 6	0.0148	259.61 8	0.0148	183.86 7	0.0148	259.61 8	0.0148	197.18 1	0.0148	259.61 3	0.0148	183.86 7
0.0163	237.92 3	0.0163	153.07 5	0.0163	263.55	0.0163	186.75	0.0163	263.55	0.0163	200.30 9	0.0163	263.47 6	0.0163	186.75
0.0180	241.78 3	0.0180	156.06 8	0.0180	266.94 1	0.0180	190.02 2	0.0180	266.94 1	0.0180	203.56 6	0.0180	266.82 4	0.0180	190.02 2

0.0198	245.15 1	0.0198	159.04 3	0.0198	270.23 5	0.0198	193.65	0.0198	270.23 5	0.0198	206.59 4	0.0198	270.14 8	0.0198	193.65	
0.0217	248.39	0.0217	161.48 3	0.0217	273.45 6	0.0217	196.68 5	0.0217	273.45 6	0.0217	209.66	0.0217	273.3	0.0217	196.68 5	
0.0239	251.53 1	0.0239	163.84 4	0.0239	276.71 6	0.0239	199.53 6	0.0239	276.71 6	0.0239	212.49 7	0.0239	276.62 9	0.0239	199.53 6	
0.0263	254.86 8	0.0263	166.13 8	0.0263	280.08 5	0.0263	202.22 4	0.0263	280.08 5	0.0263	215.34 8	0.0263	280.09 8	0.0263	202.22 4	
0.0289	258.27 2	0.0289	168.45 7	0.0289	283.69 9	0.0289	204.98 5	0.0289	283.69 9	0.0289	218.16 9	0.0289	283.72 9	0.0289	204.98 5	
0.0318	261.68 3	0.0318	170.84 9	0.0318	287.33 6	0.0318	207.79 7	0.0318	287.33 6	0.0318	221.10 1	0.0318	287.35	0.0318	207.79 7	
0.0350	265.19 6	0.0350	173.3	0.0350	291.05 4	0.0350	210.67 9	0.0350	291.05 4	0.0350	224.19 7	0.0350	291.03 4	0.0350	210.67 9	
0.0385	268.72 5	0.0385	175.88 5	0.0385	294.82 3	0.0385	213.64	0.0385	294.82 3	0.0385	227.25 3	0.0385	294.80 3	0.0385	213.64	
0.0424	272.22 3	0.0424	178.53 8	0.0424	298.49 5	0.0424	216.73 7	0.0424	298.49 5	0.0424	230.47 4	0.0424	298.43 6	0.0424	216.73 7	
0.0466	275.70 8	0.0466	181.31 9	0.0466	302.08	0.0466	219.79 7	0.0466	302.08	0.0466	233.68 7	0.0466	301.99 9	0.0466	219.79 7	
0.0513	279.11 6	0.0513	184.09 5	0.0513	305.58 3	0.0513	222.83 6	0.0513	305.58 3	0.0513	236.85 7	0.0513	305.39 5	0.0513	222.83 6	
0.0564	282.38	0.0564	186.82 4	0.0564	308.88 6	0.0564	225.77 9	0.0564	308.88 6	0.0564	239.94 8	0.0564	308.59 3	0.0564	225.77 9	
0.0620	285.43 1	0.0620	189.47 8	0.0620	312.00 5	0.0620	228.64 9	0.0620	312.00 5	0.0620	242.85 9	0.0620	311.59 1	0.0620	228.64 9	
0.0682	288.29 9	0.0682	191.94 7	0.0682	314.96 5	0.0682	231.23	0.0682	314.96 5	0.0682	245.59	0.0682	314.41 5	0.0682	231.23	
0.0750	290.94	0.0750	194.16 5	0.0750	317.80 8	0.0750	233.54 5	0.0750	317.80 8	0.0750	248.00 9	0.0750	317.12 8	0.0750	233.54 5	
0.0825	293.38	0.0825	195.98 9	0.0825	320.61 5	0.0825	235.53 3	0.0825	320.61 5	0.0825	250.13	0.0825	319.80 4	0.0825	235.53 3	
0.0908	295.74 9	0.0908	197.39 9	0.0908	323.42 3	0.0908	237.19 3	0.0908	323.42 3	0.0908	251.95 2	0.0908	322.56 4	0.0908	237.19 3	
0.0999	297.98 5	0.0999	198.38 3	0.0999	326.31 7	0.0999	238.54 2	0.0999	326.31 7	0.0999	253.58 1	0.0999	325.34 1	0.0999	238.54 2	
φmax - Mmax	0.0999	297.99	0.0999	198.38	0.0999	326.32	0.0999	238.54	0.0999	326.32	0.0999	253.58	0.0999	325.34	0.0999	238.54
φy - My	0.0052	211.99	0.0047	134.44	0.0052	235.17	0.0047	166.87	0.0052	235.17	0.0047	179.70	0.0052	235.07	0.0047	166.87
μ	19.19		21.11		19.19		21.11		19.19		21.11		19.19		21.11	

Modelo	MH16N															
Grupo de elementos	Viga 49 50 51 52 53 54 55 56				Viga 67 68 69 70				Viga 71 72 73 74				Viga 93 94 95 96			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	58.348	0.0002	56.731	0.0002	58.141	0.0002	56.46	0.0002	58.009	0.0002	56.356	0.0002	58.009	0.0002	56.087
	0.0006	93.605	0.0006	87.486	0.0006	92.87	0.0006	86.859	0.0006	92.196	0.0006	85.97	0.0006	92.196	0.0006	83.634
	0.0009	108.229	0.0009	98.064	0.0009	107.106	0.0009	97.185	0.0009	106.133	0.0009	95.841	0.0009	106.133	0.0009	91.661
	0.0012	120.575	0.0012	106.733	0.0012	119.243	0.0012	105.751	0.0012	118.132	0.0012	104.165	0.0012	118.132	0.0012	98.001
	0.0016	132.547	0.0016	115.207	0.0016	131.136	0.0016	114.161	0.0016	129.917	0.0016	112.49	0.0016	129.917	0.0016	99.934
	0.0019	144.579	0.0019	121.437	0.0019	143.12	0.0019	120.361	0.0019	141.798	0.0019	118.505	0.0019	141.798	0.0019	101.709
	0.0022	156.807	0.0022	125.344	0.0022	155.305	0.0022	124.305	0.0022	153.987	0.0022	122.459	0.0022	153.987	0.0022	104.8
	0.0026	168.268	0.0026	128.847	0.0026	166.673	0.0026	127.888	0.0026	165.289	0.0026	126.174	0.0026	165.289	0.0026	111.361
	0.0029	175.355	0.0029	136.347	0.0029	173.779	0.0029	135.412	0.0029	172.423	0.0029	133.918	0.0029	172.423	0.0029	117.997
	0.0032	181.264	0.0032	144.464	0.0032	179.82	0.0032	143.6	0.0032	178.56	0.0032	142.17	0.0032	178.56	0.0032	124.578
	0.0036	191.688	0.0036	152.376	0.0036	190.338	0.0036	151.615	0.0036	189.22	0.0036	150.322	0.0036	189.22	0.0036	130.873
	0.0039	203.02	0.0039	160.117	0.0039	201.884	0.0039	159.514	0.0039	200.821	0.0039	158.427	0.0039	200.821	0.0039	136.844
	0.0043	213.942	0.0043	165.003	0.0043	213.063	0.0043	165.2	0.0043	212.333	0.0043	164.959	0.0043	212.333	0.0043	137.511
	0.0047	214.054	0.0047	160.987	0.0047	214.133	0.0047	161.048	0.0047	214.098	0.0047	161.077	0.0047	214.098	0.0047	134.436
	0.0052	211.831	0.0052	160.602	0.0052	211.873	0.0052	160.679	0.0052	211.848	0.0052	160.725	0.0052	211.848	0.0052	134.664
	0.0057	212.438	0.0057	161.032	0.0057	212.422	0.0057	161.091	0.0057	212.413	0.0057	161.092	0.0057	212.413	0.0057	135.034
	0.0063	212.954	0.0063	161.409	0.0063	213.013	0.0063	161.486	0.0063	212.95	0.0063	161.523	0.0063	212.95	0.0063	135.345

0.0069	213.52	0.0069	161.81 2	0.0069	213.58 8	0.0069	161.87 9	0.0069	213.58 3	0.0069	161.87 3	0.0069	213.58 3	0.0069	135.68 4
0.0076	214.07 7	0.0076	162.24 1	0.0076	214.15 4	0.0076	162.29 1	0.0076	214.10 6	0.0076	162.32	0.0076	214.10 6	0.0076	136.06 9
0.0084	215.96 9	0.0084	163.95 7	0.0084	216.01	0.0084	163.99 7	0.0084	216.01 8	0.0084	164.02 4	0.0084	216.01 8	0.0084	137.57 5
0.0092	218.56 7	0.0092	165.84 9	0.0092	218.59 8	0.0092	165.92 5	0.0092	218.58	0.0092	165.93 6	0.0092	218.58	0.0092	139.21
0.0101	221.29 9	0.0101	167.96 2	0.0101	221.33 5	0.0101	167.94 4	0.0101	221.37 5	0.0101	168.03 2	0.0101	221.37 5	0.0101	140.94 9
0.0112	224.21 3	0.0112	170.17 3	0.0112	224.26 8	0.0112	170.22 4	0.0112	224.37 4	0.0112	170.24 7	0.0112	224.37 4	0.0112	142.83 2
0.0123	227.32 2	0.0123	172.54 4	0.0123	227.45 7	0.0123	172.56 5	0.0123	227.48 1	0.0123	172.61 9	0.0123	227.48 1	0.0123	144.81 4
0.0135	230.65 4	0.0135	175.08 8	0.0135	230.76 6	0.0135	175.08 5	0.0135	230.81 6	0.0135	175.15 3	0.0135	230.81 6	0.0135	147.40 7
0.0148	234.17 8	0.0148	177.80 6	0.0148	234.32 6	0.0148	177.78 9	0.0148	234.41 9	0.0148	177.83 7	0.0148	234.41 9	0.0148	150.20 6
0.0163	237.89 6	0.0163	180.65 2	0.0163	237.98 4	0.0163	180.61 8	0.0163	238.09 1	0.0163	180.90 5	0.0163	238.09 1	0.0163	153.07 5
0.0180	241.74 8	0.0180	184.07 9	0.0180	241.81 1	0.0180	184.03 3	0.0180	241.71 8	0.0180	184.40 4	0.0180	241.71 8	0.0180	156.06 8
0.0198	245.44	0.0198	187.82	0.0198	245.16 6	0.0198	187.54	0.0198	244.92 3	0.0198	187.43 3	0.0198	244.92 3	0.0198	159.04 3
0.0217	248.76 3	0.0217	190.95 9	0.0217	248.42 6	0.0217	190.44	0.0217	248.13 6	0.0217	190.11 3	0.0217	248.13 6	0.0217	161.48 3
0.0239	252.03 5	0.0239	193.81 4	0.0239	251.71 8	0.0239	193.18 7	0.0239	251.55 5	0.0239	192.73 8	0.0239	251.55 5	0.0239	163.84 4
0.0263	255.47 7	0.0263	196.53 5	0.0263	255.16	0.0263	195.86	0.0263	254.94 1	0.0263	195.31 5	0.0263	254.94 1	0.0263	166.13 8
0.0289	258.97 2	0.0289	199.27 1	0.0289	258.58 5	0.0289	198.53 5	0.0289	258.25 2	0.0289	197.89 4	0.0289	258.25 2	0.0289	168.45 7
0.0318	262.44	0.0318	202.04 6	0.0318	262.02 5	0.0318	201.22 2	0.0318	261.66 1	0.0318	200.57 1	0.0318	261.66 1	0.0318	170.84 9
0.0350	265.99	0.0350	204.86 6	0.0350	265.52 8	0.0350	204.03 2	0.0350	265.14 8	0.0350	203.38 4	0.0350	265.14 8	0.0350	173.3
0.0385	269.54	0.0385	207.84 5	0.0385	268.96 6	0.0385	206.91 4	0.0385	268.64 2	0.0385	206.30 7	0.0385	268.64 2	0.0385	175.88 5
0.0424	273.02 7	0.0424	210.76 7	0.0424	272.48 4	0.0424	209.93	0.0424	272.11 5	0.0424	209.22 6	0.0424	272.11 5	0.0424	178.53 8
0.0466	276.43 5	0.0466	213.81 7	0.0466	275.92 4	0.0466	212.97 5	0.0466	275.52 7	0.0466	212.31 4	0.0466	275.52 7	0.0466	181.31 9
0.0513	279.78 9	0.0513	216.79 8	0.0513	279.24 6	0.0513	215.98 4	0.0513	278.86 9	0.0513	215.39	0.0513	278.86 9	0.0513	184.09 5
0.0564	282.95 9	0.0564	219.72 5	0.0564	282.37	0.0564	218.98 3	0.0564	281.91 3	0.0564	218.40 4	0.0564	281.91 3	0.0564	186.82 4

	0.0620	285.94 5	0.0620	222.47 4	0.0620	285.29 8	0.0620	221.85 4	0.0620	284.77 1	0.0620	221.31 7	0.0620	284.77 1	0.0620	189.47 8
	0.0682	288.72	0.0682	225.00 9	0.0682	287.98 8	0.0682	224.52 5	0.0682	287.39	0.0682	223.99	0.0682	287.39	0.0682	191.94 7
	0.0750	291.32 7	0.0750	227.25 4	0.0750	290.47	0.0750	226.91 8	0.0750	289.77 3	0.0750	226.40 3	0.0750	289.77 3	0.0750	194.16 5
	0.0825	293.77 8	0.0825	229.15 7	0.0825	292.83 3	0.0825	228.89 6	0.0825	291.98 7	0.0825	228.41 7	0.0825	291.98 7	0.0825	195.98 9
	0.0908	296.20 6	0.0908	230.73 6	0.0908	295.13	0.0908	230.56 2	0.0908	294.10 2	0.0908	230.04 2	0.0908	294.10 2	0.0908	197.39 9
	0.0999	298.57 5	0.0999	232.05 4	0.0999	297.33 1	0.0999	231.93	0.0999	296.28 9	0.0999	231.26 7	0.0999	296.28 9	0.0999	198.38 3
φmax - Mmax	0.0999	298.58	0.0999	232.05	0.0999	297.33	0.0999	231.93	0.0999	296.29	0.0999	231.27	0.0999	296.29	0.0999	198.38
φy - My	0.0052	211.83	0.0047	160.99	0.0052	211.87	0.0052	160.68	0.0052	211.85	0.0052	160.73	0.0052	211.85	0.0047	134.44
μ	19.19		21.11		19.19		19.19		19.19		19.19		19.19		21.11	

Modelo	MH16N															
Grupo de elementos	Viga 97 98 99 100				Viga 101 102 103 104				Viga 105 106 107 108				Viga 121 121 123 124			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	57.727	0.0002	55.983	0.0002	57.54	0.0002	55.817	0.0002	57.268	0.0002	55.652	0.0002	56.912	0.0002	55.381
	0.0006	90.913	0.0006	81.245	0.0006	90.7	0.0006	81.317	0.0006	88.486	0.0006	81.028	0.0006	85.46	0.0006	80.059
	0.0009	104.35 5	0.0009	88.066	0.0009	103.37 5	0.0009	88.265	0.0009	99.386	0.0009	85.271	0.0009	94.122	0.0009	83.837
	0.0012	115.86 5	0.0012	92.143	0.0012	113.93 8	0.0012	92.458	0.0012	108.19 6	0.0012	83.686	0.0012	100.73 9	0.0012	82.096
	0.0016	127.18 8	0.0016	93.18	0.0016	124.17 8	0.0016	93.541	0.0016	116.74 7	0.0016	82.782	0.0016	102.76 6	0.0016	81.209
	0.0019	138.64 7	0.0019	94.334	0.0019	134.56 2	0.0019	94.695	0.0019	122.96 3	0.0019	86.91	0.0019	104.38 5	0.0019	85.458

0.0022	150.38 8	0.0022	99.312	0.0022	143.92 7	0.0022	99.587	0.0022	126.78 7	0.0022	91.497	0.0022	107.34 6	0.0022	90.116
0.0026	161.26 6	0.0026	105.30 6	0.0026	149.61 9	0.0026	105.54 6	0.0026	130.20 7	0.0026	96.311	0.0026	113.75 1	0.0026	95
0.0029	168.27 1	0.0029	111.35 4	0.0029	154.47 1	0.0029	111.61 4	0.0029	137.66 5	0.0029	101.17 9	0.0029	120.26 2	0.0029	99.999
0.0032	174.22 4	0.0032	117.39 3	0.0032	162.94 6	0.0032	117.63 2	0.0032	145.72 1	0.0032	105.89 9	0.0032	126.60 2	0.0032	104.84 2
0.0036	185.05 3	0.0036	123.16	0.0036	172.42 7	0.0036	123.36 5	0.0036	153.47	0.0036	110.24 5	0.0036	132.64	0.0036	109.38 6
0.0039	196.21 8	0.0039	128.47 6	0.0039	182.01 6	0.0039	128.64 6	0.0039	161.00 4	0.0039	112.58 5	0.0039	138.04 8	0.0039	112.53 9
0.0043	207.11 5	0.0043	128.30 6	0.0043	190.56 3	0.0043	128.36 1	0.0043	164.71 3	0.0043	110.05 3	0.0043	137.13 1	0.0043	110.16 7
0.0047	208.37 1	0.0047	125.60 9	0.0047	187.44 7	0.0047	125.63 4	0.0047	160.72 6	0.0047	108.28 1	0.0047	134.23 3	0.0047	108.35 5
0.0052	206.05 8	0.0052	125.85 5	0.0052	186.31 6	0.0052	125.89 1	0.0052	160.54 5	0.0052	108.51 9	0.0052	134.54 8	0.0052	108.56 5
0.0057	206.63 6	0.0057	126.18 1	0.0057	186.81 4	0.0057	126.17 5	0.0057	160.91 9	0.0057	108.77 2	0.0057	134.89 8	0.0057	108.77
0.0063	207.20 9	0.0063	126.48 3	0.0063	187.31 3	0.0063	126.49 5	0.0063	161.33 6	0.0063	108.99 7	0.0063	135.22 4	0.0063	109.00 7
0.0069	207.68 6	0.0069	126.78 6	0.0069	187.75 8	0.0069	126.75 8	0.0069	161.70 8	0.0069	109.24 5	0.0069	135.58 3	0.0069	109.25 7
0.0076	208.26 6	0.0076	127.15 1	0.0076	188.25 4	0.0076	127.13 1	0.0076	162.13 7	0.0076	109.66 8	0.0076	135.99 3	0.0076	109.67 4
0.0084	210.05 4	0.0084	128.55 4	0.0084	190.06 8	0.0084	128.54 7	0.0084	163.87 7	0.0084	110.87 8	0.0084	137.53 9	0.0084	110.87 6
0.0092	212.53 3	0.0092	130.09 9	0.0092	192.31 3	0.0092	130.00 9	0.0092	165.82 6	0.0092	112.19 4	0.0092	139.20 7	0.0092	112.17
0.0101	215.18 5	0.0101	131.83 5	0.0101	194.73 8	0.0101	131.64	0.0101	167.90 9	0.0101	113.59 8	0.0101	140.97 6	0.0101	113.55 9
0.0112	218.03 4	0.0112	133.46 1	0.0112	197.34 6	0.0112	133.39 6	0.0112	170.15 8	0.0112	115.47 9	0.0112	142.90 3	0.0112	115.39 5
0.0123	221.05 4	0.0123	135.67 8	0.0123	200.01 3	0.0123	135.26 2	0.0123	172.53 7	0.0123	117.55 8	0.0123	144.94 6	0.0123	117.34
0.0135	224.30 4	0.0135	138.23 2	0.0135	202.96 5	0.0135	137.71 3	0.0135	175.13 2	0.0135	119.72 6	0.0135	147.59 9	0.0135	119.37
0.0148	227.75 6	0.0148	140.86	0.0148	206.13 8	0.0148	140.28 8	0.0148	177.84 7	0.0148	121.95 5	0.0148	150.73	0.0148	121.49 6
0.0163	231.26 6	0.0163	143.53 3	0.0163	209.37 9	0.0163	142.88 6	0.0163	180.67	0.0163	124.21 4	0.0163	153.92	0.0163	123.67 1
0.0180	234.90 1	0.0180	146.36 7	0.0180	212.84 7	0.0180	145.62 1	0.0180	184.23 9	0.0180	126.62 6	0.0180	157.19 7	0.0180	125.94 7
0.0198	238.19 3	0.0198	149.08 2	0.0198	216.46 9	0.0198	148.44 5	0.0198	188.17 7	0.0198	129.16	0.0198	160.59	0.0198	128.35 8

0.0217	241.27 4	0.0217	151.4	0.0217	219.87 4	0.0217	150.79 5	0.0217	191.74	0.0217	131.67 3	0.0217	163.44 8	0.0217	130.71 9	
0.0239	244.35 4	0.0239	153.58 8	0.0239	223.24 1	0.0239	153.04 1	0.0239	194.70 8	0.0239	133.86	0.0239	166.04 3	0.0239	132.74 1	
0.0263	247.65 3	0.0263	155.75 4	0.0263	226.40 8	0.0263	155.19 3	0.0263	197.62 7	0.0263	135.89 5	0.0263	168.55 8	0.0263	134.68 4	
0.0289	250.96 8	0.0289	157.95 5	0.0289	229.48 5	0.0289	157.37 5	0.0289	200.45	0.0289	137.90 2	0.0289	171.04	0.0289	136.60 9	
0.0318	254.29 4	0.0318	160.21 4	0.0318	232.62	0.0318	159.60 2	0.0318	203.30 5	0.0318	139.95 2	0.0318	173.56 5	0.0318	138.58 5	
0.0350	257.66 9	0.0350	162.54	0.0350	235.83 3	0.0350	161.92 6	0.0350	206.18 9	0.0350	142.05 1	0.0350	176.18	0.0350	140.61 8	
0.0385	261.17 2	0.0385	165.01 8	0.0385	239.06 1	0.0385	164.31 9	0.0385	209.17 7	0.0385	144.26 8	0.0385	178.77 6	0.0385	142.74 6	
0.0424	264.60 9	0.0424	167.59 4	0.0424	242.36 4	0.0424	166.82 3	0.0424	212.22 1	0.0424	146.59 2	0.0424	181.51	0.0424	144.97	
0.0466	268.03 7	0.0466	170.22 4	0.0466	245.59 4	0.0466	169.45 8	0.0466	215.12 1	0.0466	148.91 9	0.0466	184.22 1	0.0466	147.29 1	
0.0513	271.39 5	0.0513	172.89 9	0.0513	248.74 9	0.0513	172.13 6	0.0513	218.00 6	0.0513	151.36 1	0.0513	186.82 1	0.0513	149.72 9	
0.0564	274.59 2	0.0564	175.52 1	0.0564	251.76 5	0.0564	174.79 5	0.0564	220.77 3	0.0564	153.79 2	0.0564	189.30 1	0.0564	152.19 7	
0.0620	277.64 7	0.0620	178.10 5	0.0620	254.59 9	0.0620	177.43 5	0.0620	223.33 8	0.0620	156.22 8	0.0620	191.59	0.0620	154.66 8	
0.0682	280.43 7	0.0682	180.51 9	0.0682	257.18 5	0.0682	179.95 2	0.0682	225.65 1	0.0682	158.52 7	0.0682	193.61 6	0.0682	157.13 6	
0.0750	283.02	0.0750	182.64 4	0.0750	259.48 6	0.0750	182.25 5	0.0750	227.67 9	0.0750	160.64 1	0.0750	195.30 3	0.0750	159.43 2	
0.0825	285.40 8	0.0825	184.42	0.0825	261.56 6	0.0825	184.22 4	0.0825	229.41 5	0.0825	162.47 8	0.0825	196.63 5	0.0825	161.52 9	
0.0908	287.65 9	0.0908	185.78 3	0.0908	263.46 5	0.0908	185.82 2	0.0908	230.89 6	0.0908	163.93 9	0.0908	197.64 6	0.0908	163.31 2	
0.0999	289.83 5	0.0999	186.71 6	0.0999	265.20 1	0.0999	186.95 5	0.0999	232.16 7	0.0999	164.91 4	0.0999	198.37 1	0.0999	164.61 8	
φmax - Mmax	0.0999	289.84	0.0999	186.72	0.0999	265.20	0.0999	186.96	0.0999	232.17	0.0999	164.91	0.0999	198.37	0.0999	164.62
φy - My	0.0052	206.06	0.0043	128.31	0.0047	187.45	0.0043	128.36	0.0047	160.73	0.0043	110.05	0.0043	137.13	0.0043	110.17
μ	19.19		23.22		21.11		23.22		21.11		23.22		23.22		23.22	

Modelo	MH16N	MI20N
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Grupo de elementos	Viga 125 126 127 128				Viga 139 140 141 142				Viga 143 144 145 146				Viga 3 9 13 15			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	56.335	0.0002	55.112	0.0002	55.649	0.0002	55.112	0.0002	55.381	0.0002	55.112	0.0002	58.009	0.0002	56.087
	0.0006	81.71	0.0006	75.109	0.0006	76.65	0.0006	75.109	0.0006	76.038	0.0006	75.109	0.0006	92.196	0.0006	83.634
	0.0009	85.992	0.0009	67.954	0.0009	69.986	0.0009	67.954	0.0009	69.165	0.0009	67.954	0.0009	106.133	0.0009	91.661
	0.0012	84.211	0.0012	67.846	0.0012	69.852	0.0012	67.846	0.0012	69.054	0.0012	67.846	0.0012	118.132	0.0012	98.001
	0.0016	83.221	0.0016	69.761	0.0016	71.704	0.0016	69.761	0.0016	70.916	0.0016	69.761	0.0016	129.917	0.0016	99.934
	0.0019	87.433	0.0019	72.296	0.0019	74.137	0.0019	72.296	0.0019	73.415	0.0019	72.296	0.0019	141.798	0.0019	101.709
	0.0022	92.021	0.0022	75.253	0.0022	76.961	0.0022	75.253	0.0022	76.268	0.0022	75.253	0.0022	153.987	0.0022	104.8
	0.0026	96.789	0.0026	78.354	0.0026	79.905	0.0026	78.354	0.0026	79.285	0.0026	78.354	0.0026	165.289	0.0026	111.361
	0.0029	101.595	0.0029	81.476	0.0029	82.834	0.0029	81.476	0.0029	82.31	0.0029	81.476	0.0029	172.423	0.0029	117.997
	0.0032	106.26	0.0032	84.401	0.0032	85.451	0.0032	84.401	0.0032	85.038	0.0032	84.401	0.0032	178.56	0.0032	124.578
	0.0036	110.501	0.0036	86.133	0.0036	86.136	0.0036	86.133	0.0036	86.233	0.0036	86.133	0.0036	189.22	0.0036	130.873
	0.0039	112.301	0.0039	84.44	0.0039	84.33	0.0039	84.44	0.0039	84.371	0.0039	84.44	0.0039	200.821	0.0039	136.844
	0.0043	109.905	0.0043	82.769	0.0043	82.695	0.0043	82.769	0.0043	82.731	0.0043	82.769	0.0043	212.333	0.0043	137.511
	0.0047	108.199	0.0047	81.931	0.0047	81.916	0.0047	81.931	0.0047	81.912	0.0047	81.931	0.0047	214.098	0.0047	134.436
	0.0052	108.446	0.0052	82.081	0.0052	82.079	0.0052	82.081	0.0052	82.143	0.0052	82.081	0.0052	211.848	0.0052	134.664
	0.0057	108.748	0.0057	82.267	0.0057	82.261	0.0057	82.267	0.0057	82.244	0.0057	82.267	0.0057	212.413	0.0057	135.034
	0.0063	109.027	0.0063	82.399	0.0063	82.458	0.0063	82.399	0.0063	82.451	0.0063	82.399	0.0063	212.95	0.0063	135.345
0.0069	109.309	0.0069	82.594	0.0069	82.655	0.0069	82.594	0.0069	82.625	0.0069	82.594	0.0069	213.583	0.0069	135.684	

0.0076	109.77	0.0076	83.021	0.0076	83.104	0.0076	83.021	0.0076	83.075	0.0076	83.021	0.0076	214.10 6	0.0076	136.06 9
0.0084	111.06 2	0.0084	84.216	0.0084	84.368	0.0084	84.216	0.0084	84.29	0.0084	84.216	0.0084	216.01 8	0.0084	137.57 5
0.0092	112.42 1	0.0092	85.622	0.0092	85.979	0.0092	85.622	0.0092	85.823	0.0092	85.622	0.0092	218.58	0.0092	139.21
0.0101	114.43	0.0101	87.038	0.0101	87.646	0.0101	87.038	0.0101	87.36	0.0101	87.038	0.0101	221.37 5	0.0101	140.94 9
0.0112	116.75 6	0.0112	88.488	0.0112	89.336	0.0112	88.488	0.0112	88.951	0.0112	88.488	0.0112	224.37 4	0.0112	142.83 2
0.0123	119.14 8	0.0123	90.014	0.0123	91.074	0.0123	90.014	0.0123	90.585	0.0123	90.014	0.0123	227.48 1	0.0123	144.81 4
0.0135	121.58 6	0.0135	91.599	0.0135	92.851	0.0135	91.599	0.0135	92.266	0.0135	91.599	0.0135	230.81 6	0.0135	147.40 7
0.0148	124.10 4	0.0148	93.258	0.0148	94.685	0.0148	93.258	0.0148	94.009	0.0148	93.258	0.0148	234.41 9	0.0148	150.20 6
0.0163	126.70 9	0.0163	94.917	0.0163	96.604	0.0163	94.917	0.0163	95.793	0.0163	94.917	0.0163	238.09 1	0.0163	153.07 5
0.0180	129.35 4	0.0180	96.701	0.0180	98.562	0.0180	96.701	0.0180	97.673	0.0180	96.701	0.0180	241.71 8	0.0180	156.06 8
0.0198	132.05 5	0.0198	98.562	0.0198	100.59 3	0.0198	98.562	0.0198	99.628	0.0198	98.562	0.0198	244.92 3	0.0198	159.04 3
0.0217	134.35 5	0.0217	100.51 3	0.0217	102.71 8	0.0217	100.51 3	0.0217	101.66 9	0.0217	100.51 3	0.0217	248.13 6	0.0217	161.48 3
0.0239	136.49 9	0.0239	102.49 3	0.0239	104.80 7	0.0239	102.49 3	0.0239	103.72 4	0.0239	102.49 3	0.0239	251.55 5	0.0239	163.84 4
0.0263	138.62 4	0.0263	104.22 7	0.0263	106.64 4	0.0263	104.22 7	0.0263	105.56 3	0.0263	104.22 7	0.0263	254.94 1	0.0263	166.13 8
0.0289	140.74 1	0.0289	105.90 7	0.0289	108.45 1	0.0289	105.90 7	0.0289	107.29	0.0289	105.90 7	0.0289	258.25 2	0.0289	168.45 7
0.0318	142.92 3	0.0318	107.57 5	0.0318	110.25 1	0.0318	107.57 5	0.0318	109.03 2	0.0318	107.57 5	0.0318	261.66 1	0.0318	170.84 9
0.0350	145.16 8	0.0350	109.28 8	0.0350	112.06 5	0.0350	109.28 8	0.0350	110.79 6	0.0350	109.28 8	0.0350	265.14 8	0.0350	173.3
0.0385	147.54 8	0.0385	111.05 6	0.0385	113.98 1	0.0385	111.05 6	0.0385	112.64 9	0.0385	111.05 6	0.0385	268.64 2	0.0385	175.88 5
0.0424	149.90 6	0.0424	112.89 8	0.0424	115.90 3	0.0424	112.89 8	0.0424	114.54 7	0.0424	112.89 8	0.0424	272.11 5	0.0424	178.53 8
0.0466	152.33 1	0.0466	114.81 1	0.0466	117.94 3	0.0466	114.81 1	0.0466	116.54 2	0.0466	114.81 1	0.0466	275.52 7	0.0466	181.31 9
0.0513	154.72 4	0.0513	116.84	0.0513	120.00 3	0.0513	116.84	0.0513	118.58 8	0.0513	116.84	0.0513	278.86 9	0.0513	184.09 5
0.0564	157.03 4	0.0564	118.88 2	0.0564	122.1	0.0564	118.88 2	0.0564	120.67 3	0.0564	118.88 2	0.0564	281.91 3	0.0564	186.82 4
0.0620	159.16 5	0.0620	120.99 5	0.0620	124.07 7	0.0620	120.99 5	0.0620	122.75 2	0.0620	120.99 5	0.0620	284.77 1	0.0620	189.47 8

	0.0682	161.05	0.0682	123.06 8	0.0682	125.97 7	0.0682	123.06 8	0.0682	124.74 7	0.0682	123.06 8	0.0682	287.39	0.0682	191.94 7
	0.0750	162.57 6	0.0750	124.89 2	0.0750	127.64 4	0.0750	124.89 2	0.0750	126.59 8	0.0750	124.89 2	0.0750	289.77 3	0.0750	194.16 5
	0.0825	163.71 7	0.0825	126.48 7	0.0825	129.03 9	0.0825	126.48 7	0.0825	128.20 3	0.0825	126.48 7	0.0825	291.98 7	0.0825	195.98 9
	0.0908	164.40 5	0.0908	127.94 8	0.0908	130.03 3	0.0908	127.94 8	0.0908	129.41 4	0.0908	127.94 8	0.0908	294.10 2	0.0908	197.39 9
	0.0999	164.71 7	0.0999	129.14 4	0.0999	130.51 8	0.0999	129.14 4	0.0999	130.19 4	0.0999	129.14 4	0.0999	296.28 9	0.0999	198.38 3
φmax - Mmax	0.0999	164.72	0.0999	129.14	0.0999	130.52	0.0999	129.14	0.0999	130.19	0.0999	129.14	0.0999	296.29	0.0999	198.38
φy - My	0.0043	109.91	0.0039	84.44	0.0039	84.33	0.0039	84.44	0.0039	84.37	0.0039	84.44	0.0052	211.85	0.0047	134.44
μ	23.22		25.55		25.55		25.55		25.55		25.55		19.19		21.11	

Modelo	M120N															
Grupo de elementos	Viga 6 12 14 16				Viga 31 32 33 34				Viga 35 36 37 38				Viga 49 50 51 52			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	58.753	0.0002	56.88	0.0002	58.904	0.0002	56.921	0.0002	58.793	0.0002	56.921	0.0002	58.753	0.0002	56.88
	0.0006	92.665	0.0006	86.212	0.0006	92.014	0.0006	85.89	0.0006	92.409	0.0006	85.89	0.0006	92.665	0.0006	86.212
	0.0009	107.58	0.0009	97.002	0.0009	106.39 2	0.0009	96.422	0.0009	107.11 2	0.0009	96.422	0.0009	107.58	0.0009	97.002
	0.0012	120.67 2	0.0012	106.3	0.0012	119.27 3	0.0012	105.61 7	0.0012	120.13 9	0.0012	105.61 7	0.0012	120.67 2	0.0012	106.3
	0.0016	133.66	0.0016	115.58 2	0.0016	132.14 7	0.0016	114.84 3	0.0016	133.07 2	0.0016	114.84 3	0.0016	133.66	0.0016	115.58 2
	0.0019	146.84 7	0.0019	125.16 3	0.0019	145.23 2	0.0019	124.38 6	0.0019	146.23 2	0.0019	124.38 6	0.0019	146.84 7	0.0019	125.16 3
	0.0022	160.28 6	0.0022	133.85 6	0.0022	158.65 3	0.0022	133.01 4	0.0022	159.65	0.0022	133.01 4	0.0022	160.28 6	0.0022	133.85 6

0.0026	173.94 8	0.0026	139.57 4	0.0026	172.24 3	0.0026	138.7	0.0026	173.31 4	0.0026	138.7	0.0026	173.94 8	0.0026	139.57 4
0.0029	187.38 4	0.0029	144.56 8	0.0029	185.56 7	0.0029	143.81 9	0.0029	186.65 1	0.0029	143.81 9	0.0029	187.38 4	0.0029	144.56 8
0.0032	196.40 1	0.0032	153.93 6	0.0032	194.46 5	0.0032	153.21 5	0.0032	195.67	0.0032	153.21 5	0.0032	196.40 1	0.0032	153.93 6
0.0036	204.44	0.0036	163.11 9	0.0036	202.88	0.0036	162.41 1	0.0036	203.86 6	0.0036	162.41 1	0.0036	204.44	0.0036	163.11 9
0.0039	217.69 2	0.0039	172.44 9	0.0039	216.17	0.0039	171.88 2	0.0039	217.10 8	0.0039	171.88 2	0.0039	217.69 2	0.0039	172.44 9
0.0043	231.15 1	0.0043	181.22 8	0.0043	229.85 7	0.0043	180.82 6	0.0043	230.72	0.0043	180.82 6	0.0043	231.15 1	0.0043	181.22 8
0.0047	239.09 3	0.0047	179.69 7	0.0047	238.78 8	0.0047	179.63 9	0.0047	239.09 3	0.0047	179.63 9	0.0047	239.09 3	0.0047	179.69 7
0.0052	235.16 9	0.0052	178.44 1	0.0052	234.90 7	0.0052	178.34 8	0.0052	235.07	0.0052	178.34 8	0.0052	235.16 9	0.0052	178.44 1
0.0057	235.78 3	0.0057	178.86 2	0.0057	235.57 5	0.0057	178.84 4	0.0057	235.71 3	0.0057	178.84 4	0.0057	235.78 3	0.0057	178.86 2
0.0063	236.43 5	0.0063	179.35 6	0.0063	236.21 6	0.0063	179.33 9	0.0063	236.33 3	0.0063	179.33 9	0.0063	236.43 5	0.0063	179.35 6
0.0069	237.11 1	0.0069	179.75 4	0.0069	236.93 4	0.0069	179.76 9	0.0069	237.04	0.0069	179.76 9	0.0069	237.11 1	0.0069	179.75 4
0.0076	237.73 9	0.0076	180.25 6	0.0076	237.61 3	0.0076	180.23 9	0.0076	237.7	0.0076	180.23 9	0.0076	237.73 9	0.0076	180.25 6
0.0084	239.52	0.0084	181.90 5	0.0084	239.4	0.0084	181.90 4	0.0084	239.39 9	0.0084	181.90 4	0.0084	239.52	0.0084	181.90 5
0.0092	242.33 7	0.0092	184.05 4	0.0092	242.25 4	0.0092	184.03 4	0.0092	242.33 5	0.0092	184.03 4	0.0092	242.33 7	0.0092	184.05 4
0.0101	245.33 9	0.0101	186.34 5	0.0101	245.32 9	0.0101	186.36 7	0.0101	245.36 1	0.0101	186.36 7	0.0101	245.33 9	0.0101	186.34 5
0.0112	248.61 9	0.0112	188.79 3	0.0112	248.62 2	0.0112	188.83 9	0.0112	248.58 9	0.0112	188.83 9	0.0112	248.61 9	0.0112	188.79 3
0.0123	252.04 8	0.0123	191.40 6	0.0123	252.11 7	0.0123	191.48	0.0123	252.07 1	0.0123	191.48	0.0123	252.04 8	0.0123	191.40 6
0.0135	255.70 9	0.0135	194.19 8	0.0135	255.84	0.0135	194.27 2	0.0135	255.72 4	0.0135	194.27 2	0.0135	255.70 9	0.0135	194.19 8
0.0148	259.61 8	0.0148	197.18 1	0.0148	259.81 9	0.0148	197.23 6	0.0148	259.61 3	0.0148	197.23 6	0.0148	259.61 8	0.0148	197.18 1
0.0163	263.55	0.0163	200.30 9	0.0163	263.47 9	0.0163	200.32 8	0.0163	263.47 6	0.0163	200.32 8	0.0163	263.55	0.0163	200.30 9
0.0180	266.94 1	0.0180	203.56 6	0.0180	266.77 2	0.0180	203.59	0.0180	266.82 4	0.0180	203.59	0.0180	266.94 1	0.0180	203.56 6
0.0198	270.23 5	0.0198	206.59 4	0.0198	270.02 5	0.0198	206.77 8	0.0198	270.14 8	0.0198	206.77 8	0.0198	270.23 5	0.0198	206.59 4
0.0217	273.45 6	0.0217	209.66	0.0217	273.33 7	0.0217	209.68 6	0.0217	273.3	0.0217	209.68 6	0.0217	273.45 6	0.0217	209.66

0.0239	276.71 6	0.0239	212.49 7	0.0239	276.82 4	0.0239	212.53 5	0.0239	276.62 9	0.0239	212.53 5	0.0239	276.71 6	0.0239	212.49 7	
0.0263	280.08 5	0.0263	215.34 8	0.0263	280.41 4	0.0263	215.34 6	0.0263	280.09 8	0.0263	215.34 6	0.0263	280.08 5	0.0263	215.34 8	
0.0289	283.69 9	0.0289	218.16 9	0.0289	284.01 8	0.0289	218.18 9	0.0289	283.72 9	0.0289	218.18 9	0.0289	283.69 9	0.0289	218.16 9	
0.0318	287.33 6	0.0318	221.10 1	0.0318	287.61 7	0.0318	221.12 5	0.0318	287.35 5	0.0318	221.12 5	0.0318	287.33 6	0.0318	221.10 1	
0.0350	291.05 4	0.0350	224.19 7	0.0350	291.35 9	0.0350	224.17 1	0.0350	291.03 4	0.0350	224.17 1	0.0350	291.05 4	0.0350	224.19 7	
0.0385	294.82 3	0.0385	227.25 3	0.0385	294.99 2	0.0385	227.28 6	0.0385	294.80 3	0.0385	227.28 6	0.0385	294.82 3	0.0385	227.25 3	
0.0424	298.49 5	0.0424	230.47 4	0.0424	298.50 7	0.0424	230.47 9	0.0424	298.43 6	0.0424	230.47 9	0.0424	298.49 5	0.0424	230.47 4	
0.0466	302.08	0.0466	233.68 7	0.0466	301.97	0.0466	233.66 9	0.0466	301.99 9	0.0466	233.66 9	0.0466	302.08	0.0466	233.68 7	
0.0513	305.58 3	0.0513	236.85 7	0.0513	305.18 1	0.0513	236.83 5	0.0513	305.39 5	0.0513	236.83 5	0.0513	305.58 3	0.0513	236.85 7	
0.0564	308.88 6	0.0564	239.94 8	0.0564	308.14 7	0.0564	239.90 1	0.0564	308.59 3	0.0564	239.90 1	0.0564	308.88 6	0.0564	239.94 8	
0.0620	312.00 5	0.0620	242.85 9	0.0620	310.89 7	0.0620	242.77 3	0.0620	311.59 1	0.0620	242.77 3	0.0620	312.00 5	0.0620	242.85 9	
0.0682	314.96 5	0.0682	245.59	0.0682	313.45 3	0.0682	245.39 6	0.0682	314.41 5	0.0682	245.39 6	0.0682	314.96 5	0.0682	245.59	
0.0750	317.80 8	0.0750	248.00 9	0.0750	315.87 7	0.0750	247.69 4	0.0750	317.12 8	0.0750	247.69 4	0.0750	317.80 8	0.0750	248.00 9	
0.0825	320.61 5	0.0825	250.13	0.0825	318.34 3	0.0825	249.69	0.0825	319.80 4	0.0825	249.69	0.0825	320.61 5	0.0825	250.13	
0.0908	323.42 3	0.0908	251.95 2	0.0908	320.83 9	0.0908	251.41 5	0.0908	322.56 4	0.0908	251.41 5	0.0908	323.42 3	0.0908	251.95 2	
0.0999	326.31 7	0.0999	253.58 1	0.0999	323.40 8	0.0999	252.92 9	0.0999	325.34 1	0.0999	252.92 9	0.0999	326.31 7	0.0999	253.58 1	
φmax - Mmax	0.0999	326.32	0.0999	253.58	0.0999	323.41	0.0999	252.93	0.0999	325.34	0.0999	252.93	0.0999	326.32	0.0999	253.58
φy - My	0.0052	235.17	0.0047	179.70	0.0052	234.91	0.0047	179.64	0.0052	235.07	0.0047	179.64	0.0052	235.17	0.0047	179.70
μ	19.19		21.11		19.19		21.11		19.19		21.11		19.19		21.11	

Modelo	MI20N														
Grupo de elementos	Viga 53 54 55 56				Viga 67 68 69 70 71 72 73 74				Viga 93 94 95 96				Viga 97 98 99 100		

Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	58.552	0.0002	56.772	0.0002	58.348	0.0002	56.731	0.0002	59.168	0.0002	56.46	0.0002	58.009	0.0002	56.356
	0.0006	93.511	0.0006	86.529	0.0006	93.605	0.0006	87.486	0.0006	94.045	0.0006	86.859	0.0006	92.196	0.0006	85.97
	0.0009	107.927	0.0009	96.928	0.0009	108.229	0.0009	98.064	0.0009	108.425	0.0009	97.185	0.0009	106.133	0.0009	95.841
	0.0012	120.174	0.0012	105.664	0.0012	120.575	0.0012	106.733	0.0012	120.609	0.0012	105.751	0.0012	118.132	0.0012	104.165
	0.0016	132.077	0.0016	114.331	0.0016	132.547	0.0016	115.207	0.0016	132.55	0.0016	114.161	0.0016	129.917	0.0016	112.49
	0.0019	144.096	0.0019	122.733	0.0019	144.579	0.0019	121.437	0.0019	144.546	0.0019	120.361	0.0019	141.798	0.0019	118.505
	0.0022	156.293	0.0022	127.75	0.0022	156.807	0.0022	125.344	0.0022	156.76	0.0022	124.305	0.0022	153.987	0.0022	122.459
	0.0026	167.627	0.0026	131.857	0.0026	168.268	0.0026	128.847	0.0026	167.892	0.0026	127.888	0.0026	165.289	0.0026	126.174
	0.0029	174.688	0.0029	138.463	0.0029	175.355	0.0029	136.347	0.0029	174.843	0.0029	135.412	0.0029	172.423	0.0029	133.918
	0.0032	180.607	0.0032	146.999	0.0032	181.264	0.0032	144.464	0.0032	180.714	0.0032	143.6	0.0032	178.56	0.0032	142.17
	0.0036	191.235	0.0036	155.359	0.0036	191.688	0.0036	152.376	0.0036	191.552	0.0036	151.615	0.0036	189.22	0.0036	150.322
	0.0039	202.595	0.0039	163.705	0.0039	203.02	0.0039	160.117	0.0039	202.862	0.0039	159.514	0.0039	200.821	0.0039	158.427
	0.0043	213.612	0.0043	170.589	0.0043	213.942	0.0043	165.003	0.0043	213.744	0.0043	165.2	0.0043	212.333	0.0043	164.959
	0.0047	213.877	0.0047	166.87	0.0047	214.054	0.0047	160.987	0.0047	213.435	0.0047	161.048	0.0047	214.098	0.0047	161.077
	0.0052	211.737	0.0052	166.257	0.0052	211.831	0.0052	160.602	0.0052	211.539	0.0052	160.679	0.0052	211.848	0.0052	160.725
	0.0057	212.324	0.0057	166.675	0.0057	212.438	0.0057	161.032	0.0057	212.141	0.0057	161.091	0.0057	212.413	0.0057	161.092
	0.0063	212.925	0.0063	167.034	0.0063	212.954	0.0063	161.409	0.0063	212.72	0.0063	161.486	0.0063	212.95	0.0063	161.523
0.0069	213.485	0.0069	167.47	0.0069	213.52	0.0069	161.812	0.0069	213.29	0.0069	161.879	0.0069	213.583	0.0069	161.873	
0.0076	214.035	0.0076	167.872	0.0076	214.077	0.0076	162.241	0.0076	213.874	0.0076	162.291	0.0076	214.106	0.0076	162.32	

0.0084	215.95 6	0.0084	169.57 5	0.0084	215.96 9	0.0084	163.95 7	0.0084	215.78 4	0.0084	163.99 7	0.0084	216.01 8	0.0084	164.02 4
0.0092	218.47 3	0.0092	171.52 7	0.0092	218.56 7	0.0092	165.84 9	0.0092	218.34 4	0.0092	165.92 5	0.0092	218.58	0.0092	165.93 6
0.0101	221.27 8	0.0101	173.71 5	0.0101	221.29 9	0.0101	167.96 2	0.0101	221.11 5	0.0101	167.94 4	0.0101	221.37 5	0.0101	168.03 2
0.0112	224.20 3	0.0112	176.00 5	0.0112	224.21 3	0.0112	170.17 3	0.0112	224.12 6	0.0112	170.22 4	0.0112	224.37 4	0.0112	170.24 7
0.0123	227.32 3	0.0123	178.45 1	0.0123	227.32 2	0.0123	172.54 4	0.0123	227.28 3	0.0123	172.56 5	0.0123	227.48 1	0.0123	172.61 9
0.0135	230.66 4	0.0135	181.06 7	0.0135	230.65 4	0.0135	175.08 8	0.0135	230.63 9	0.0135	175.08 5	0.0135	230.81 6	0.0135	175.15 3
0.0148	234.24 1	0.0148	183.86 7	0.0148	234.17 8	0.0148	177.80 6	0.0148	234.27 4	0.0148	177.78 9	0.0148	234.41 9	0.0148	177.83 7
0.0163	237.94 7	0.0163	186.75	0.0163	237.89 6	0.0163	180.65 2	0.0163	238.01 4	0.0163	180.61 8	0.0163	238.09 1	0.0163	180.90 5
0.0180	241.80 1	0.0180	190.02 2	0.0180	241.74 8	0.0180	184.07 9	0.0180	242.00 7	0.0180	184.03 3	0.0180	241.71 8	0.0180	184.40 4
0.0198	245.38 5	0.0198	193.65	0.0198	245.44	0.0198	187.82	0.0198	245.72 8	0.0198	187.54	0.0198	244.92 3	0.0198	187.43 3
0.0217	248.76 5	0.0217	196.68 5	0.0217	248.76 3	0.0217	190.95 9	0.0217	249.11 1	0.0217	190.44	0.0217	248.13 6	0.0217	190.11 3
0.0239	252.08 7	0.0239	199.53 6	0.0239	252.03 5	0.0239	193.81 4	0.0239	252.74 1	0.0239	193.18 7	0.0239	251.55 5	0.0239	192.73 8
0.0263	255.62 3	0.0263	202.22 4	0.0263	255.47 7	0.0263	196.53 5	0.0263	256.41 7	0.0263	195.86	0.0263	254.94 1	0.0263	195.31 5
0.0289	259.10 2	0.0289	204.98 5	0.0289	258.97 2	0.0289	199.27 1	0.0289	259.89 4	0.0289	198.53 5	0.0289	258.25 2	0.0289	197.89 4
0.0318	262.68	0.0318	207.79 7	0.0318	262.44	0.0318	202.04 6	0.0318	263.38 8	0.0318	201.22 2	0.0318	261.66 1	0.0318	200.57 1
0.0350	266.14 2	0.0350	210.67 9	0.0350	265.99	0.0350	204.86 6	0.0350	266.92 9	0.0350	204.03 2	0.0350	265.14 8	0.0350	203.38 4
0.0385	269.64 7	0.0385	213.64	0.0385	269.54	0.0385	207.84 5	0.0385	270.40 7	0.0385	206.91 4	0.0385	268.64 2	0.0385	206.30 7
0.0424	273.08 6	0.0424	216.73 7	0.0424	273.02 7	0.0424	210.76 7	0.0424	273.77 9	0.0424	209.93	0.0424	272.11 5	0.0424	209.22 6
0.0466	276.5	0.0466	219.79 7	0.0466	276.43 5	0.0466	213.81 7	0.0466	277.04 2	0.0466	212.97 5	0.0466	275.52 7	0.0466	212.31 4
0.0513	279.71 8	0.0513	222.83 6	0.0513	279.78 9	0.0513	216.79 8	0.0513	280.13 1	0.0513	215.98 4	0.0513	278.86 9	0.0513	215.39
0.0564	282.79 4	0.0564	225.77 9	0.0564	282.95 9	0.0564	219.72 5	0.0564	283.01 4	0.0564	218.98 3	0.0564	281.91 3	0.0564	218.40 4
0.0620	285.62 1	0.0620	228.64 9	0.0620	285.94 5	0.0620	222.47 4	0.0620	285.66 4	0.0620	221.85 4	0.0620	284.77 1	0.0620	221.31 7
0.0682	288.29 3	0.0682	231.23	0.0682	288.72	0.0682	225.00 9	0.0682	288.13 6	0.0682	224.52 5	0.0682	287.39	0.0682	223.99

	0.0750	290.77 6	0.0750	233.54 5	0.0750	291.32 7	0.0750	227.25 4	0.0750	290.46 2	0.0750	226.91 8	0.0750	289.77 3	0.0750	226.40 3
	0.0825	293.11 2	0.0825	235.53 3	0.0825	293.77 8	0.0825	229.15 7	0.0825	292.66 8	0.0825	228.89 6	0.0825	291.98 7	0.0825	228.41 7
	0.0908	295.44 5	0.0908	237.19 3	0.0908	296.20 6	0.0908	230.73 6	0.0908	294.97 8	0.0908	230.56 2	0.0908	294.10 2	0.0908	230.04 2
	0.0999	297.72 5	0.0999	238.54 2	0.0999	298.57 5	0.0999	232.05 4	0.0999	297.22 9	0.0999	231.93	0.0999	296.28 9	0.0999	231.26 7
φmax - Mmax	0.0999	297.73	0.0999	238.54	0.0999	298.58	0.0999	232.05	0.0999	297.23	0.0999	231.93	0.0999	296.29	0.0999	231.27
φy - My	0.0052	211.74	0.0047	166.87	0.0052	211.83	0.0047	160.99	0.0047	213.44	0.0052	160.68	0.0052	211.85	0.0047	161.08
μ	19.19		21.11		19.19		21.11		21.11		19.19		19.19		21.11	

Modelo	MI20N															
Grupo de elementos	Viga 101 102 103 104				Viga 105 106 107 108				Viga 121 122 123 124				Viga 125 126 127 128			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	58.009	0.0002	56.087	0.0002	57.811	0.0002	56.087	0.0002	57.727	0.0002	55.817	0.0002	57.54	0.0002	55.817
	0.0006	92.196	0.0006	83.634	0.0006	92.719	0.0006	83.634	0.0006	90.913	0.0006	81.317	0.0006	90.7	0.0006	81.317
	0.0009	106.13 3	0.0009	91.661	0.0009	107.12 2	0.0009	91.661	0.0009	104.35 5	0.0009	88.265	0.0009	103.37 5	0.0009	88.265
	0.0012	118.13 2	0.0012	98.001	0.0012	119.33 2	0.0012	98.001	0.0012	115.86 5	0.0012	92.458	0.0012	113.93 8	0.0012	92.458
	0.0016	129.91 7	0.0016	99.934	0.0016	131.24 3	0.0016	99.934	0.0016	127.18 8	0.0016	93.541	0.0016	124.17 8	0.0016	93.541
	0.0019	141.79 8	0.0019	101.70 9	0.0019	143.23 6	0.0019	101.70 9	0.0019	138.64 7	0.0019	94.695	0.0019	134.56 2	0.0019	94.695
	0.0022	153.98 7	0.0022	104.8	0.0022	155.43 4	0.0022	104.8	0.0022	150.38 8	0.0022	99.587	0.0022	143.92 7	0.0022	99.587
	0.0026	165.28 9	0.0026	111.36 1	0.0026	166.95 5	0.0026	111.36 1	0.0026	161.26 6	0.0026	105.54 6	0.0026	149.61 9	0.0026	105.54 6

0.0029	172.42 3	0.0029	117.99 7	0.0029	174.12 9	0.0029	117.99 7	0.0029	168.27 1	0.0029	111.61 4	0.0029	154.47 1	0.0029	111.61 4
0.0032	178.56	0.0032	124.57 8	0.0032	180.09 2	0.0032	124.57 8	0.0032	174.22 4	0.0032	117.63 2	0.0032	162.94 6	0.0032	117.63 2
0.0036	189.22	0.0036	130.87 3	0.0036	190.47 8	0.0036	130.87 3	0.0036	185.05 3	0.0036	123.36 5	0.0036	172.42 7	0.0036	123.36 5
0.0039	200.82 1	0.0039	136.84 4	0.0039	201.94 7	0.0039	136.84 4	0.0039	196.21 8	0.0039	128.64 6	0.0039	182.01 6	0.0039	128.64 6
0.0043	212.33 3	0.0043	137.51 1	0.0043	213.19 2	0.0043	137.51 1	0.0043	207.11 5	0.0043	128.36 1	0.0043	190.56 3	0.0043	128.36 1
0.0047	214.09 8	0.0047	134.43 6	0.0047	214.35 2	0.0047	134.43 6	0.0047	208.37 1	0.0047	125.63 4	0.0047	187.44 7	0.0047	125.63 4
0.0052	211.84 8	0.0052	134.66 4	0.0052	211.99	0.0052	134.66 4	0.0052	206.05 8	0.0052	125.89 1	0.0052	186.31 6	0.0052	125.89 1
0.0057	212.41 3	0.0057	135.03 4	0.0057	212.54 7	0.0057	135.03 4	0.0057	206.63 6	0.0057	126.17 5	0.0057	186.81 4	0.0057	126.17 5
0.0063	212.95	0.0063	135.34 5	0.0063	213.14	0.0063	135.34 5	0.0063	207.20 9	0.0063	126.49 5	0.0063	187.31 3	0.0063	126.49 5
0.0069	213.58 3	0.0069	135.68 4	0.0069	213.63 9	0.0069	135.68 4	0.0069	207.68 6	0.0069	126.75 8	0.0069	187.75 8	0.0069	126.75 8
0.0076	214.10 6	0.0076	136.06 9	0.0076	214.23 8	0.0076	136.06 9	0.0076	208.26 6	0.0076	127.13 1	0.0076	188.25 4	0.0076	127.13 1
0.0084	216.01 8	0.0084	137.57 5	0.0084	216.09 3	0.0084	137.57 5	0.0084	210.05 4	0.0084	128.54 7	0.0084	190.06 8	0.0084	128.54 7
0.0092	218.58	0.0092	139.21	0.0092	218.67 3	0.0092	139.21	0.0092	212.53 3	0.0092	130.00 9	0.0092	192.31 3	0.0092	130.00 9
0.0101	221.37 5	0.0101	140.94 9	0.0101	221.40 4	0.0101	140.94 9	0.0101	215.18 5	0.0101	131.64	0.0101	194.73 8	0.0101	131.64
0.0112	224.37 4	0.0112	142.83 2	0.0112	224.31 5	0.0112	142.83 2	0.0112	218.03 4	0.0112	133.39 6	0.0112	197.34 6	0.0112	133.39 6
0.0123	227.48 1	0.0123	144.81 4	0.0123	227.42 7	0.0123	144.81 4	0.0123	221.05 4	0.0123	135.26 2	0.0123	200.01 3	0.0123	135.26 2
0.0135	230.81 6	0.0135	147.40 7	0.0135	230.74 9	0.0135	147.40 7	0.0135	224.30 4	0.0135	137.71 3	0.0135	202.96 5	0.0135	137.71 3
0.0148	234.41 9	0.0148	150.20 6	0.0148	234.30 4	0.0148	150.20 6	0.0148	227.75 6	0.0148	140.28 8	0.0148	206.13 8	0.0148	140.28 8
0.0163	238.09 1	0.0163	153.07 5	0.0163	237.92 3	0.0163	153.07 5	0.0163	231.26 6	0.0163	142.88 6	0.0163	209.37 9	0.0163	142.88 6
0.0180	241.71 8	0.0180	156.06 8	0.0180	241.78 3	0.0180	156.06 8	0.0180	234.90 1	0.0180	145.62 1	0.0180	212.84 7	0.0180	145.62 1
0.0198	244.92 3	0.0198	159.04 3	0.0198	245.15 1	0.0198	159.04 3	0.0198	238.19 3	0.0198	148.44 5	0.0198	216.46 9	0.0198	148.44 5
0.0217	248.13 6	0.0217	161.48 3	0.0217	248.39	0.0217	161.48 3	0.0217	241.27 4	0.0217	150.79 5	0.0217	219.87 4	0.0217	150.79 5
0.0239	251.55 5	0.0239	163.84 4	0.0239	251.53 1	0.0239	163.84 4	0.0239	244.35 4	0.0239	153.04 1	0.0239	223.24 1	0.0239	153.04 1

0.0263	254.94 1	0.0263	166.13 8	0.0263	254.86 8	0.0263	166.13 8	0.0263	247.65 3	0.0263	155.19 3	0.0263	226.40 8	0.0263	155.19 3	
0.0289	258.25 2	0.0289	168.45 7	0.0289	258.27 2	0.0289	168.45 7	0.0289	250.96 8	0.0289	157.37 5	0.0289	229.48 5	0.0289	157.37 5	
0.0318	261.66 1	0.0318	170.84 9	0.0318	261.68 3	0.0318	170.84 9	0.0318	254.29 4	0.0318	159.60 2	0.0318	232.62	0.0318	159.60 2	
0.0350	265.14 8	0.0350	173.3	0.0350	265.19 6	0.0350	173.3	0.0350	257.66 9	0.0350	161.92 6	0.0350	235.83 3	0.0350	161.92 6	
0.0385	268.64 2	0.0385	175.88 5	0.0385	268.72 5	0.0385	175.88 5	0.0385	261.17 2	0.0385	164.31 9	0.0385	239.06 1	0.0385	164.31 9	
0.0424	272.11 5	0.0424	178.53 8	0.0424	272.22 3	0.0424	178.53 8	0.0424	264.60 9	0.0424	166.82 3	0.0424	242.36 4	0.0424	166.82 3	
0.0466	275.52 7	0.0466	181.31 9	0.0466	275.70 8	0.0466	181.31 9	0.0466	268.03 7	0.0466	169.45 8	0.0466	245.59 4	0.0466	169.45 8	
0.0513	278.86 9	0.0513	184.09 5	0.0513	279.11 6	0.0513	184.09 5	0.0513	271.39 5	0.0513	172.13 6	0.0513	248.74 9	0.0513	172.13 6	
0.0564	281.91 3	0.0564	186.82 4	0.0564	282.38	0.0564	186.82 4	0.0564	274.59 2	0.0564	174.79 5	0.0564	251.76 5	0.0564	174.79 5	
0.0620	284.77 1	0.0620	189.47 8	0.0620	285.43 1	0.0620	189.47 8	0.0620	277.64 7	0.0620	177.43 5	0.0620	254.59 9	0.0620	177.43 5	
0.0682	287.39	0.0682	191.94 7	0.0682	288.29 9	0.0682	191.94 7	0.0682	280.43 7	0.0682	179.95 2	0.0682	257.18 2	0.0682	179.95 2	
0.0750	289.77 3	0.0750	194.16 5	0.0750	290.94	0.0750	194.16 5	0.0750	283.02	0.0750	182.25 5	0.0750	259.48 6	0.0750	182.25 5	
0.0825	291.98 7	0.0825	195.98 9	0.0825	293.38	0.0825	195.98 9	0.0825	285.40 8	0.0825	184.22 4	0.0825	261.56 6	0.0825	184.22 4	
0.0908	294.10 2	0.0908	197.39 9	0.0908	295.74 9	0.0908	197.39 9	0.0908	287.65 9	0.0908	185.82 2	0.0908	263.46 5	0.0908	185.82 2	
0.0999	296.28 9	0.0999	198.38 3	0.0999	297.98 5	0.0999	198.38 3	0.0999	289.83 5	0.0999	186.95 5	0.0999	265.20 1	0.0999	186.95 5	
φmax - Mmax	0.0999	296.29	0.0999	198.38	0.0999	297.99	0.0999	198.38	0.0999	289.84	0.0999	186.96	0.0999	265.20	0.0999	186.96
φy - My	0.0052	211.85	0.0047	134.44	0.0052	211.99	0.0047	134.44	0.0052	206.06	0.0043	128.36	0.0047	187.45	0.0043	128.36
μ	19.19		21.11		19.19		21.11		19.19		23.22		21.11		23.22	

Modelo	M120N														
Grupo de elementos	Viga 139 140 141 142				Viga 143 144 145 146				Viga 165 166 167 168				Viga 169 170 171 172		
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO		EXTREMOS		CENTRO

	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	57.31	0.0002	55.652	0.0002	57.268	0.0002	55.381	0.0002	56.806	0.0002	55.112	0.0002	56.188	0.0002	55.112
	0.0006	87.461	0.0006	81.028	0.0006	88.486	0.0006	80.059	0.0006	82.901	0.0006	75.109	0.0006	82.293	0.0006	75.109
	0.0009	98.139	0.0009	85.271	0.0009	99.386	0.0009	83.837	0.0009	90.247	0.0009	67.954	0.0009	86.996	0.0009	67.954
	0.0012	107.029	0.0012	83.686	0.0012	108.196	0.0012	82.096	0.0012	94.503	0.0012	67.846	0.0012	85.542	0.0012	67.846
	0.0016	115.71	0.0016	82.782	0.0016	116.747	0.0016	81.209	0.0016	95.518	0.0016	69.761	0.0016	84.577	0.0016	69.761
	0.0019	124.124	0.0019	86.91	0.0019	122.963	0.0019	85.458	0.0019	96.548	0.0019	72.296	0.0019	88.603	0.0019	72.296
	0.0022	129.081	0.0022	91.497	0.0022	126.787	0.0022	90.116	0.0022	101.452	0.0022	75.253	0.0022	93.116	0.0022	75.253
	0.0026	133.123	0.0026	96.311	0.0026	130.207	0.0026	95	0.0026	107.323	0.0026	78.354	0.0026	97.815	0.0026	78.354
	0.0029	139.701	0.0029	101.179	0.0029	137.665	0.0029	99.999	0.0029	113.264	0.0029	81.476	0.0029	102.543	0.0029	81.476
	0.0032	148.178	0.0032	105.899	0.0032	145.721	0.0032	104.842	0.0032	119.108	0.0032	84.401	0.0032	107.096	0.0032	84.401
	0.0036	156.443	0.0036	110.245	0.0036	153.47	0.0036	109.386	0.0036	124.598	0.0036	86.133	0.0036	111.157	0.0036	86.133
	0.0039	164.584	0.0039	112.585	0.0039	161.004	0.0039	112.539	0.0039	129.367	0.0039	84.44	0.0039	112.367	0.0039	84.44
	0.0043	170.784	0.0043	110.053	0.0043	164.713	0.0043	110.167	0.0043	127.988	0.0043	82.769	0.0043	109.919	0.0043	82.769
	0.0047	166.658	0.0047	108.281	0.0047	160.726	0.0047	108.355	0.0047	125.441	0.0047	81.931	0.0047	108.219	0.0047	81.931
	0.0052	166.1	0.0052	108.519	0.0052	160.545	0.0052	108.565	0.0052	125.73	0.0052	82.081	0.0052	108.442	0.0052	82.081
	0.0057	166.597	0.0057	108.772	0.0057	160.919	0.0057	108.77	0.0057	126.052	0.0057	82.267	0.0057	108.702	0.0057	82.267
	0.0063	166.908	0.0063	108.997	0.0063	161.336	0.0063	109.007	0.0063	126.372	0.0063	82.399	0.0063	108.935	0.0063	82.399
	0.0069	167.368	0.0069	109.245	0.0069	161.708	0.0069	109.257	0.0069	126.702	0.0069	82.594	0.0069	109.228	0.0069	82.594
0.0076	167.797	0.0076	109.668	0.0076	162.137	0.0076	109.674	0.0076	127.115	0.0076	83.021	0.0076	109.656	0.0076	83.021	
0.0084	169.499	0.0084	110.878	0.0084	163.877	0.0084	110.876	0.0084	128.545	0.0084	84.216	0.0084	110.914	0.0084	84.216	

0.0092	171.48 1	0.0092	112.19 4	0.0092	165.82 6	0.0092	112.17	0.0092	130.09 6	0.0092	85.622	0.0092	112.25 3	0.0092	85.622
0.0101	173.65	0.0101	113.59 8	0.0101	167.90 9	0.0101	113.55 9	0.0101	131.79 3	0.0101	87.038	0.0101	113.70 4	0.0101	87.038
0.0112	175.95 1	0.0112	115.47 9	0.0112	170.15 8	0.0112	115.39 5	0.0112	133.6	0.0112	88.488	0.0112	115.59 9	0.0112	88.488
0.0123	178.41 7	0.0123	117.55 8	0.0123	172.53 7	0.0123	117.34	0.0123	135.81 8	0.0123	90.014	0.0123	117.92 2	0.0123	90.014
0.0135	181.05 5	0.0135	119.72 6	0.0135	175.13 2	0.0135	119.37	0.0135	138.66 7	0.0135	91.599	0.0135	120.29	0.0135	91.599
0.0148	183.84 8	0.0148	121.95 5	0.0148	177.84 7	0.0148	121.49 6	0.0148	141.57 8	0.0148	93.258	0.0148	122.72 9	0.0148	93.258
0.0163	186.80 6	0.0163	124.21 4	0.0163	180.67	0.0163	123.67 1	0.0163	144.65 6	0.0163	94.917	0.0163	125.19 7	0.0163	94.917
0.0180	190.07 8	0.0180	126.62 6	0.0180	184.23 9	0.0180	125.94 7	0.0180	147.73 9	0.0180	96.701	0.0180	127.80 9	0.0180	96.701
0.0198	193.99 8	0.0198	129.16	0.0198	188.17 7	0.0198	128.35 8	0.0198	150.81 1	0.0198	98.562	0.0198	130.50 4	0.0198	98.562
0.0217	197.35 9	0.0217	131.67 3	0.0217	191.74	0.0217	130.71 9	0.0217	153.37 5	0.0217	100.51 3	0.0217	133.22	0.0217	100.51 3
0.0239	200.34 4	0.0239	133.86	0.0239	194.70 8	0.0239	132.74 1	0.0239	155.77 9	0.0239	102.49 3	0.0239	135.50 8	0.0239	102.49 3
0.0263	203.22 2	0.0263	135.89 5	0.0263	197.62 7	0.0263	134.68 4	0.0263	158.14	0.0263	104.22 7	0.0263	137.71 7	0.0263	104.22 7
0.0289	206.06 9	0.0289	137.90 2	0.0289	200.45	0.0289	136.60 9	0.0289	160.47 1	0.0289	105.90 7	0.0289	139.87 2	0.0289	105.90 7
0.0318	208.94 6	0.0318	139.95 2	0.0318	203.30 5	0.0318	138.58 5	0.0318	162.86 8	0.0318	107.57 5	0.0318	142.02	0.0318	107.57 5
0.0350	211.87 8	0.0350	142.05 1	0.0350	206.18 9	0.0350	140.61 8	0.0350	165.31 7	0.0350	109.28 8	0.0350	144.22 2	0.0350	109.28 8
0.0385	214.92 9	0.0385	144.26 8	0.0385	209.17 7	0.0385	142.74 6	0.0385	167.86 5	0.0385	111.05 6	0.0385	146.5	0.0385	111.05 6
0.0424	217.91 4	0.0424	146.59 2	0.0424	212.22 1	0.0424	144.97	0.0424	170.45 9	0.0424	112.89 8	0.0424	148.85 8	0.0424	112.89 8
0.0466	220.97 8	0.0466	148.91 9	0.0466	215.12 1	0.0466	147.29 1	0.0466	173.06 1	0.0466	114.81 1	0.0466	151.25 1	0.0466	114.81 1
0.0513	223.92 1	0.0513	151.36 1	0.0513	218.00 6	0.0513	149.72 9	0.0513	175.58 4	0.0513	116.84	0.0513	153.67	0.0513	116.84
0.0564	226.76	0.0564	153.79 2	0.0564	220.77 3	0.0564	152.19 7	0.0564	177.98 4	0.0564	118.88 2	0.0564	156.00 3	0.0564	118.88 2
0.0620	229.39 1	0.0620	156.22 8	0.0620	223.33 8	0.0620	154.66 8	0.0620	180.21 6	0.0620	120.99 5	0.0620	158.23 6	0.0620	120.99 5
0.0682	231.78 5	0.0682	158.52 7	0.0682	225.65 1	0.0682	157.13 6	0.0682	182.16 1	0.0682	123.06 8	0.0682	160.27 2	0.0682	123.06 8
0.0750	233.86 8	0.0750	160.64 1	0.0750	227.67 9	0.0750	159.43 2	0.0750	183.77 3	0.0750	124.89 2	0.0750	162.03 7	0.0750	124.89 2

	0.0825	235.70 1	0.0825	162.47 8	0.0825	229.41 5	0.0825	161.52 9	0.0825	185.01 8	0.0825	126.48 7	0.0825	163.44 9	0.0825	126.48 7
	0.0908	237.29	0.0908	163.93 9	0.0908	230.89 6	0.0908	163.31 2	0.0908	185.91 1	0.0908	127.94 8	0.0908	164.43	0.0908	127.94 8
	0.0999	238.65 7	0.0999	164.91 4	0.0999	232.16 7	0.0999	164.61 8	0.0999	186.56 7	0.0999	129.14 4	0.0999	165.02 9	0.0999	129.14 4
φmax - Mmax	0.0999	238.66	0.0999	164.91	0.0999	232.17	0.0999	164.62	0.0999	186.57	0.0999	129.14	0.0999	165.03	0.0999	129.14
φy - My	0.0047	166.66	0.0043	110.05	0.0047	160.73	0.0043	110.17	0.0043	127.99	0.0039	84.44	0.0043	109.92	0.0039	84.44
μ	21.11		23.22		21.11		23.22		23.22		25.55		23.22		25.55	

Modelo	MI20N							
Grupo de elementos	Viga 173 174 175 176				Viga 177 178 179 180			
Sección	EXTREMOS		CENTRO		EXTREMOS		CENTRO	
	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y	eje X	Eje Y
	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento	Curvatura	Momento
	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]	[rad/m]	[kN.m]
Resultado	0.0000	0	0.0000	0	0.0000	0	0.0000	0
	0.0002	55.545	0.0002	55.112	0.0002	55.381	0.0002	55.112
	0.0006	75.882	0.0006	75.109	0.0006	76.038	0.0006	75.109
	0.0009	68.903	0.0009	67.954	0.0009	69.165	0.0009	67.954
	0.0012	68.811	0.0012	67.846	0.0012	69.054	0.0012	67.846
	0.0016	70.687	0.0016	69.761	0.0016	70.916	0.0016	69.761
	0.0019	73.164	0.0019	72.296	0.0019	73.415	0.0019	72.296
	0.0022	76.063	0.0022	75.253	0.0022	76.268	0.0022	75.253
	0.0026	79.084	0.0026	78.354	0.0026	79.285	0.0026	78.354
	0.0029	82.105	0.0029	81.476	0.0029	82.31	0.0029	81.476
	0.0032	84.89	0.0032	84.401	0.0032	85.038	0.0032	84.401
	0.0036	86.152	0.0036	86.133	0.0036	86.233	0.0036	86.133

0.0039	84.323	0.0039	84.44	0.0039	84.371	0.0039	84.44
0.0043	82.69	0.0043	82.769	0.0043	82.731	0.0043	82.769
0.0047	81.911	0.0047	81.931	0.0047	81.912	0.0047	81.931
0.0052	82.09	0.0052	82.081	0.0052	82.143	0.0052	82.081
0.0057	82.28	0.0057	82.267	0.0057	82.244	0.0057	82.267
0.0063	82.48	0.0063	82.399	0.0063	82.451	0.0063	82.399
0.0069	82.692	0.0069	82.594	0.0069	82.625	0.0069	82.594
0.0076	83.152	0.0076	83.021	0.0076	83.075	0.0076	83.021
0.0084	84.724	0.0084	84.216	0.0084	84.29	0.0084	84.216
0.0092	86.329	0.0092	85.622	0.0092	85.823	0.0092	85.622
0.0101	87.951	0.0101	87.038	0.0101	87.36	0.0101	87.038
0.0112	89.628	0.0112	88.488	0.0112	88.951	0.0112	88.488
0.0123	91.324	0.0123	90.014	0.0123	90.585	0.0123	90.014
0.0135	93.086	0.0135	91.599	0.0135	92.266	0.0135	91.599
0.0148	94.898	0.0148	93.258	0.0148	94.009	0.0148	93.258
0.0163	96.754	0.0163	94.917	0.0163	95.793	0.0163	94.917
0.0180	98.699	0.0180	96.701	0.0180	97.673	0.0180	96.701
0.0198	100.719	0.0198	98.562	0.0198	99.628	0.0198	98.562
0.0217	102.803	0.0217	100.513	0.0217	101.669	0.0217	100.513
0.0239	104.707	0.0239	102.493	0.0239	103.724	0.0239	102.493
0.0263	106.481	0.0263	104.227	0.0263	105.563	0.0263	104.227
0.0289	108.217	0.0289	105.907	0.0289	107.29	0.0289	105.907
0.0318	109.979	0.0318	107.575	0.0318	109.032	0.0318	107.575
0.0350	111.794	0.0350	109.288	0.0350	110.796	0.0350	109.288
0.0385	113.668	0.0385	111.056	0.0385	112.649	0.0385	111.056
0.0424	115.624	0.0424	112.898	0.0424	114.547	0.0424	112.898
0.0466	117.692	0.0466	114.811	0.0466	116.542	0.0466	114.811
0.0513	119.806	0.0513	116.84	0.0513	118.588	0.0513	116.84
0.0564	121.871	0.0564	118.882	0.0564	120.673	0.0564	118.882

	0.0620	123.946	0.0620	120.995	0.0620	122.752	0.0620	120.995
	0.0682	125.881	0.0682	123.068	0.0682	124.747	0.0682	123.068
	0.0750	127.605	0.0750	124.892	0.0750	126.598	0.0750	124.892
	0.0825	129.023	0.0825	126.487	0.0825	128.203	0.0825	126.487
	0.0908	130.033	0.0908	127.948	0.0908	129.414	0.0908	127.948
	0.0999	130.557	0.0999	129.144	0.0999	130.194	0.0999	129.144
φmax - Mmax	0.0999	130.56	0.0999	129.14	0.0999	130.19	0.0999	129.14
φy - My	0.0039	84.32	0.0039	84.44	0.0039	84.37	0.0039	84.44
μ	25.55		25.55		25.55		25.55	

B-2. Resultado de diagramas momento-curvatura modelo MB2N con variación de cuantías.

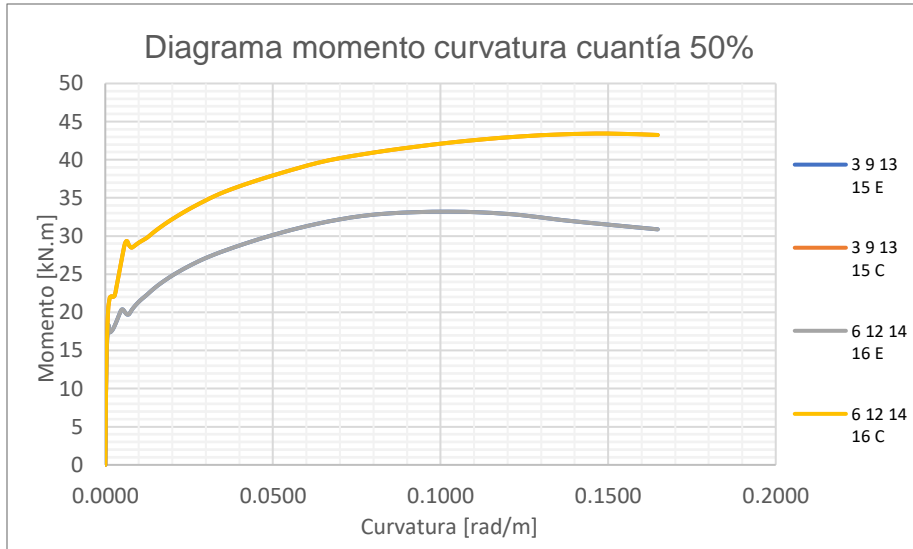
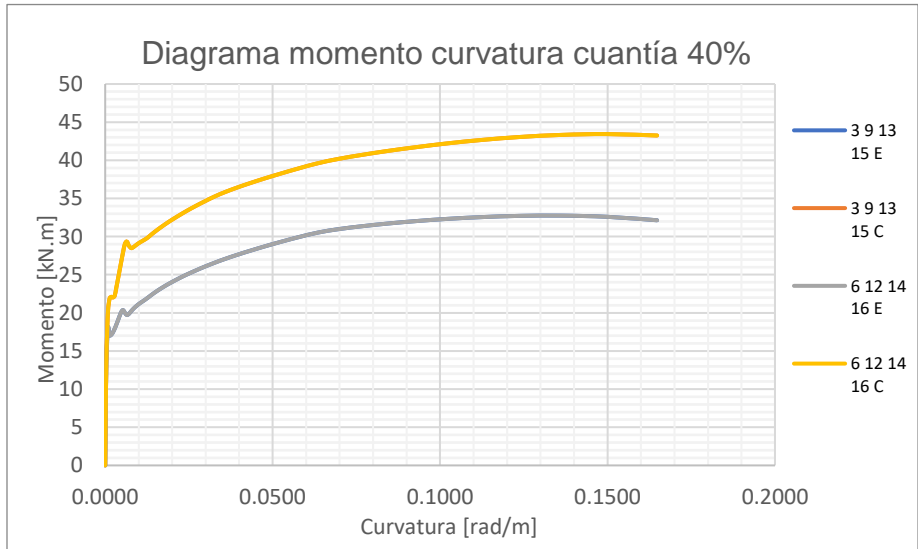
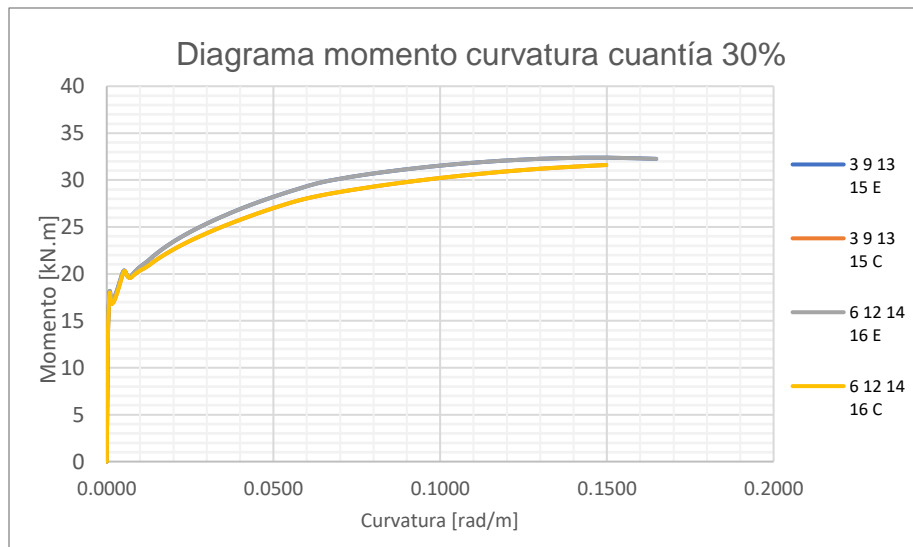
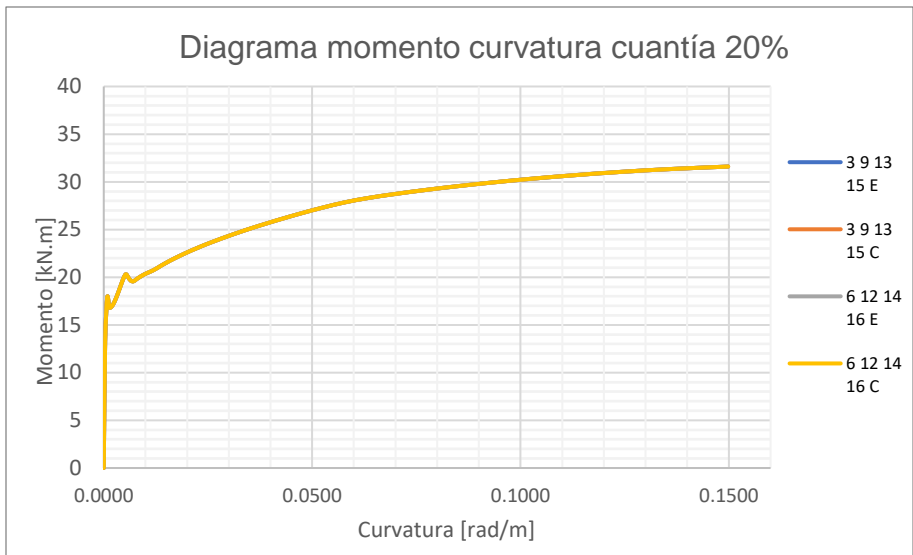


Diagrama momento curvatura cuantía 60%

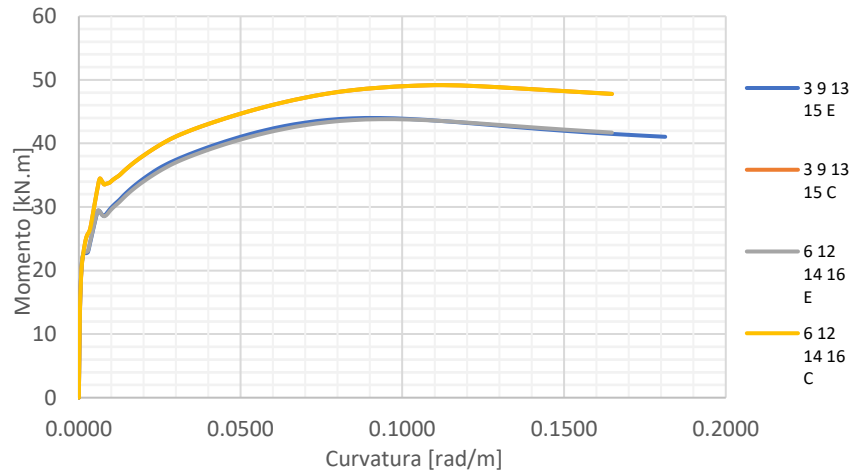


Diagrama momento curvatura cuantía 70%

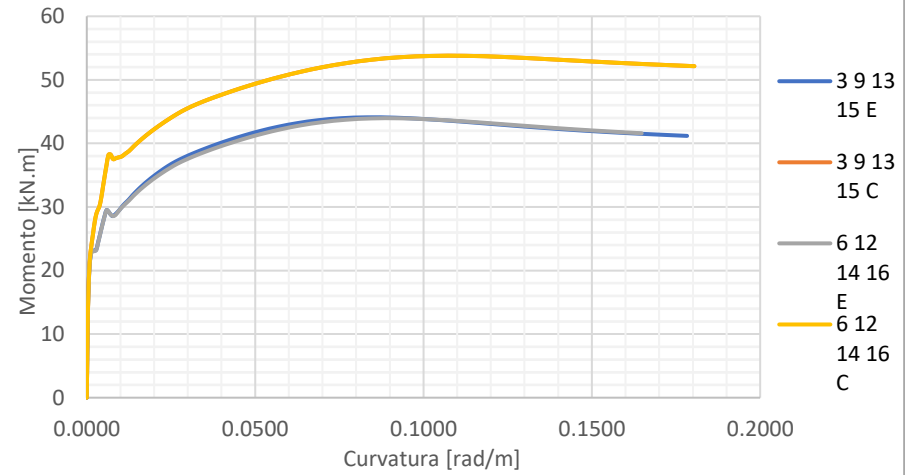


Diagrama momento curvatura cuantía 80%

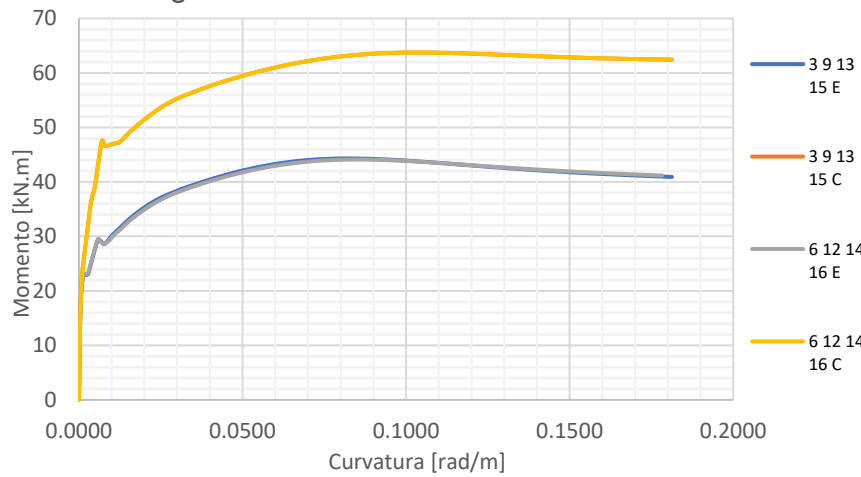


Diagrama momento curvatura cuantía 90%

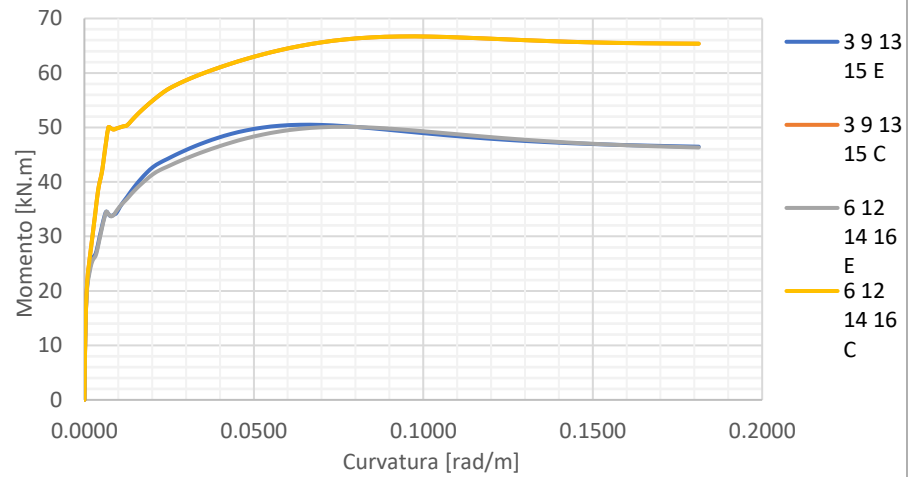


Diagrama momento curvatura cuantía 100%

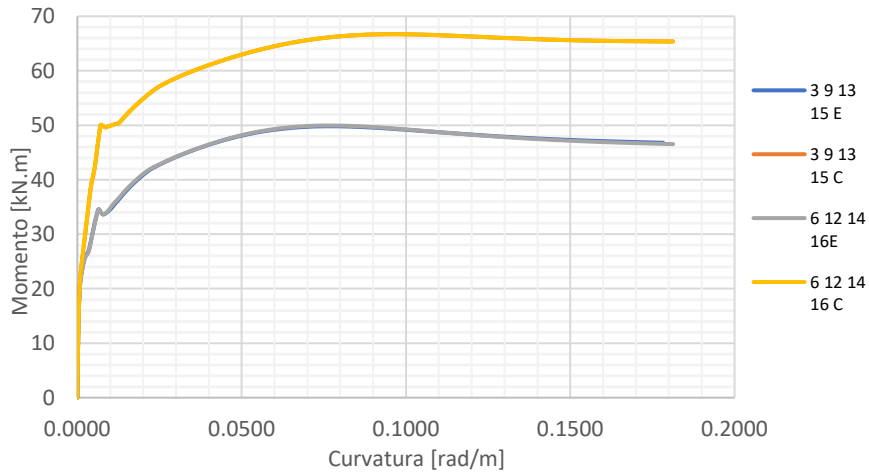


Diagrama momento curvatura cuantía 120%

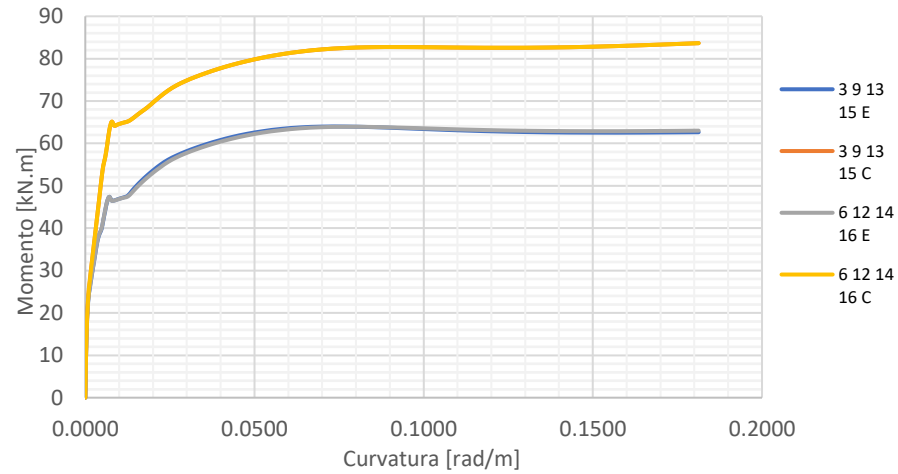


Diagrama momento curvatura cuantía 140%

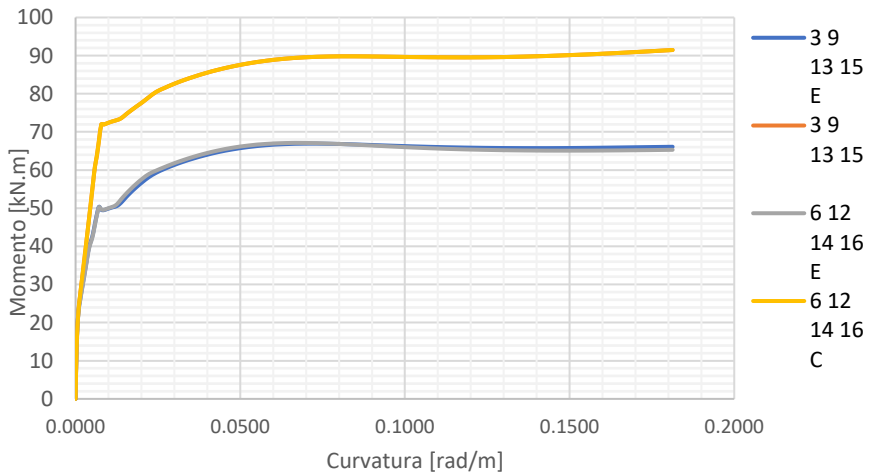
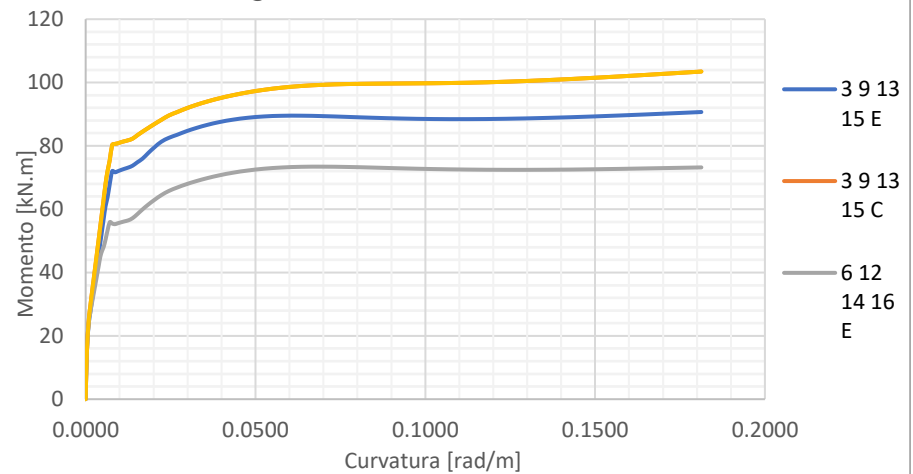


Diagrama de momento curvatura 160%



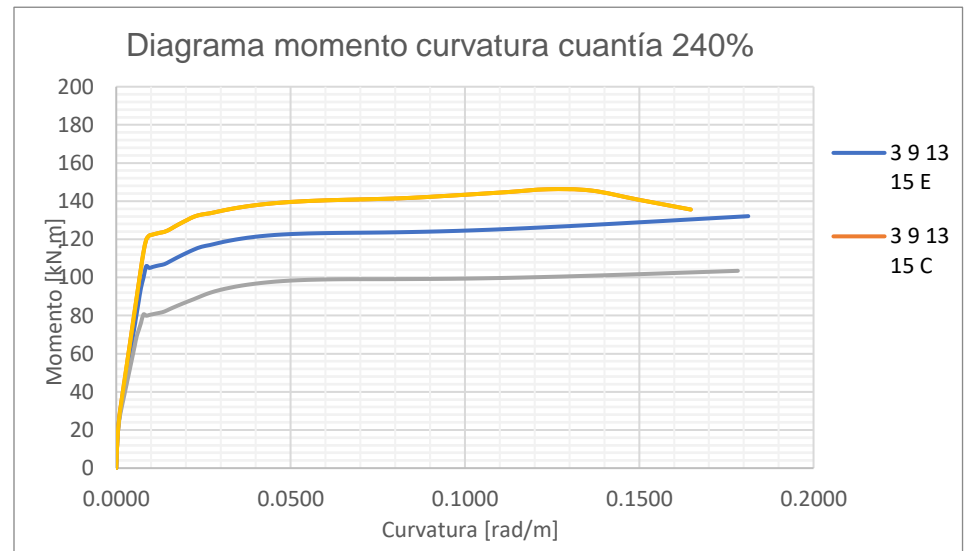
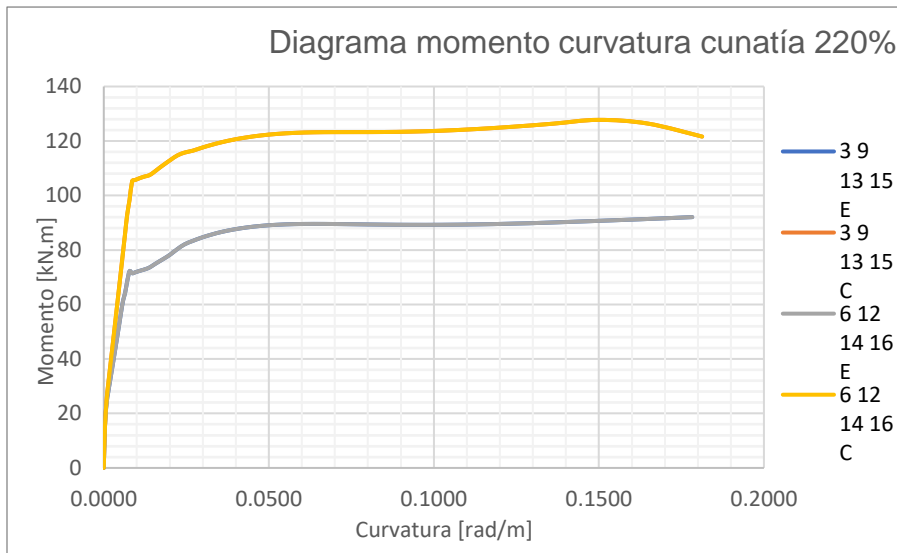
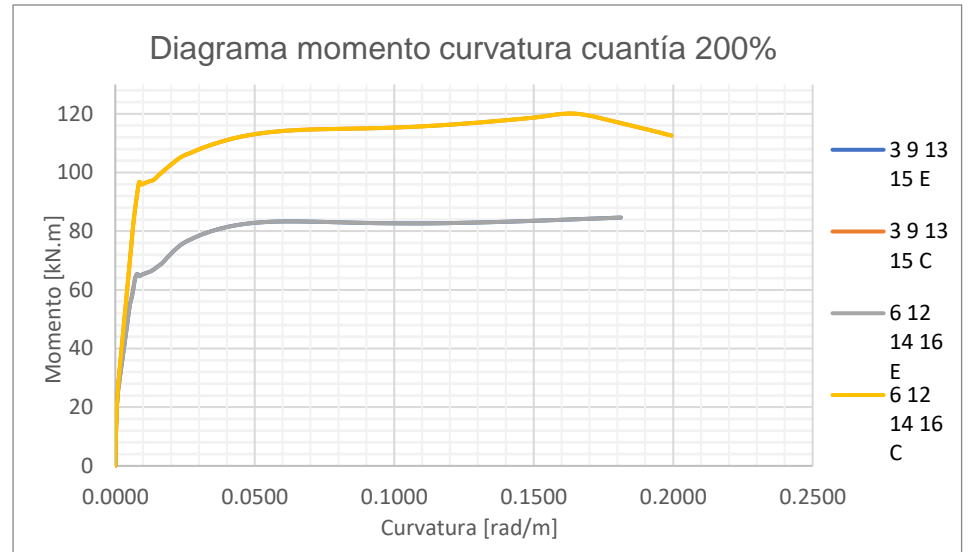
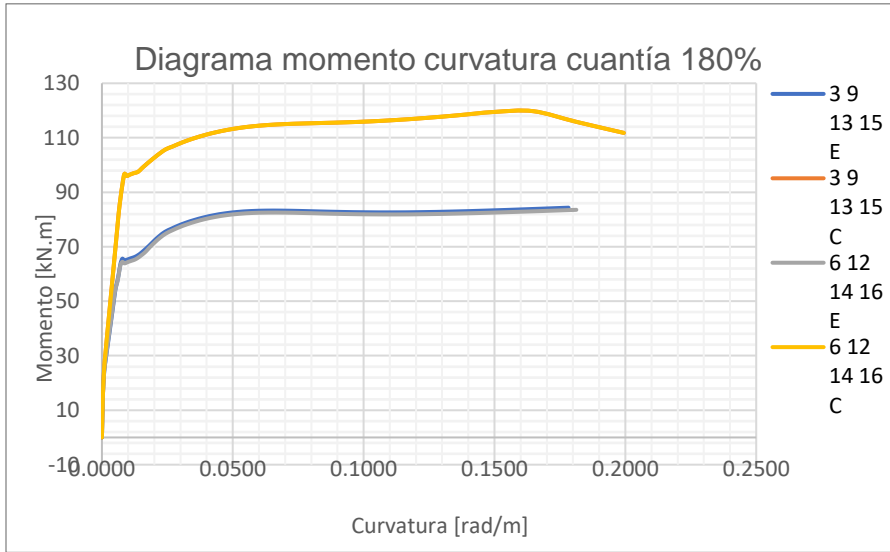


Diagrama momento curvatura cuantía 280%

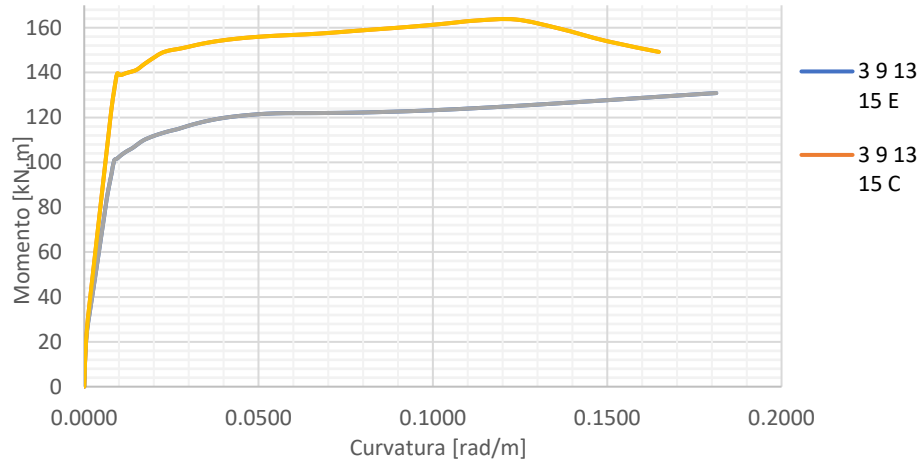
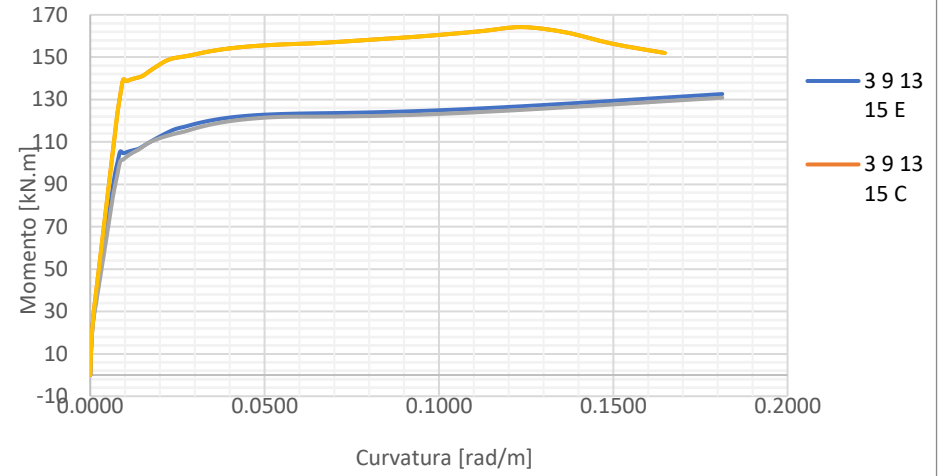


Diagrama momento curvatura cuatía 300%

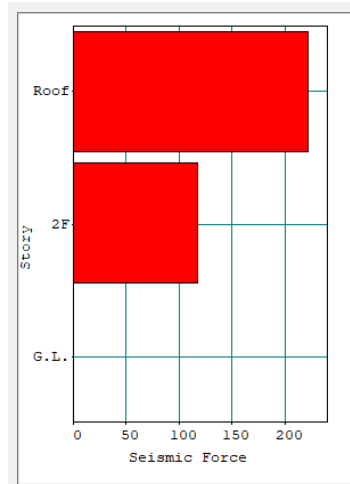


C. Anexo: Desarrollo del análisis *Pushover*.

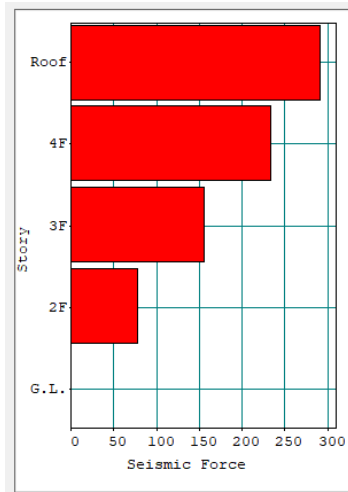
C-1. Patrón de carga de FHE aplicado en el análisis *pushover* por modelo.

Patrón de carga según FHE (Dirección X y dirección Y)

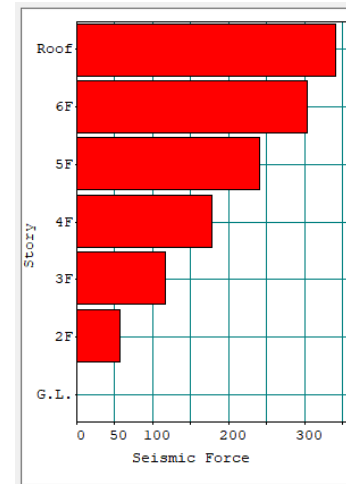
MB2B



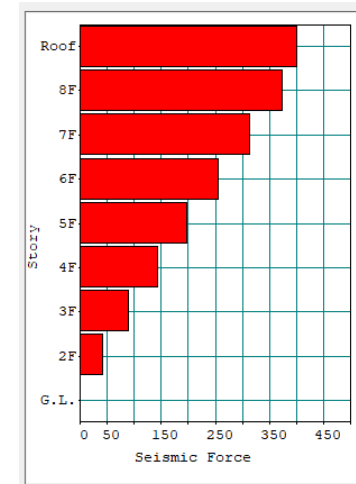
MC4N



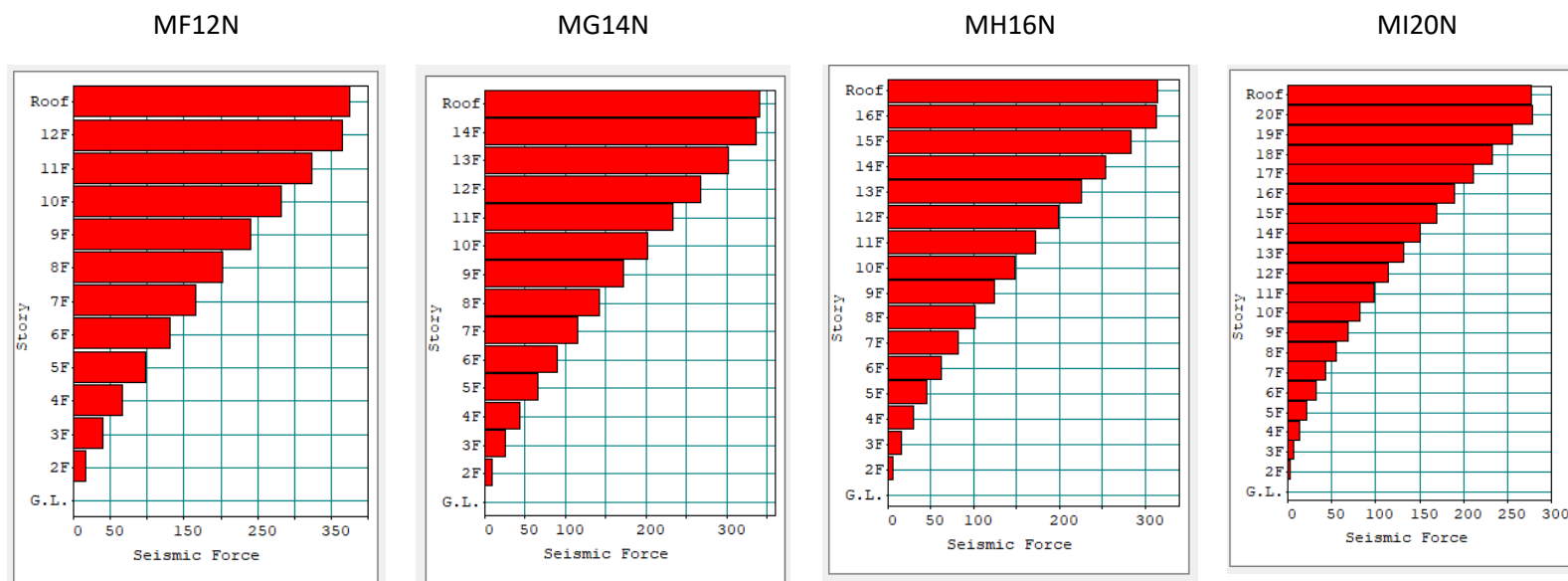
MD6N



ME8N



Patrón de carga según FHE (Dirección X y dirección Y)



C-2. Resultado de curvas de capacidad en análisis *pushover* por modelo.

Curvas de capacidad para PUSHX (Desplazamiento-Cortante en la base)																
Modelo	MB2N		MC4N		MD6N		ME8N		MF12N		MG14N		MH16N		MI20N	
Pasos	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]
0	11.83	0.001	12.91	0.001	10.32	0.001	25.62	0.003	23.49	0.003	21.21	0.0035	14.33	0.003	12.32	0.004
1	118.3	0.008	129.13	0.013	103.17	0.010	256.24	0.025	234.88	0.030	212.1	0.0350	143.26	0.030	123.19	0.040
2	181.86	0.015	204.31	0.025	206.34	0.020	383.00	0.050	390.88	0.060	375.09	0.0700	286.53	0.060	246.38	0.080
3	234.11	0.023	243.04	0.038	268.12	0.030	407.70	0.075	423.09	0.090	409.81	0.1050	376.08	0.090	352.22	0.120
4	235.92	0.030	263.71	0.050	288.95	0.040	427.31	0.100	437.74	0.120	422.4	0.1400	396.61	0.120	388.57	0.160

Curvas de capacidad para PUSHX (Desplazamiento-Cortante en la base)																
Modelo	MB2N		MC4N		MD6N		ME8N		MF12N		MG14N		MH16N		MI20N	
Pasos	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]
5	236.38	0.038	274.66	0.063	304.20	0.050	444.38	0.125	449.29	0.150	430.94	0.1750	403.77	0.150	390.43	0.200
6	236.84	0.045	279.68	0.075	318.51	0.060	452.52	0.150	458.60	0.180	437.47	0.2100	408.37	0.180	390.36	0.240
7	237.29	0.053	279.28	0.088	330.71	0.070	457.48	0.175	466.39	0.210	443.51	0.2450	411.93	0.210	389.18	0.280
8	237.75	0.060	278.88	0.100	340.96	0.080	459.38	0.200	472.88	0.240	448.52	0.2800	414.55	0.240	387.63	0.320
9	238.21	0.068	278.48	0.113	349.68	0.090	457.75	0.225	478.33	0.270	453.03	0.3150	417.00	0.270	385.87	0.360
10	238.66	0.075	278.08	0.125	354.50	0.100	456.12	0.250	481.82	0.300	456.89	0.3500	418.74	0.300	383.95	0.400
11	239.12	0.083	277.68	0.138	357.88	0.110	454.49	0.275	482.74	0.330	460.56	0.3850	420.48	0.330	381.83	0.440
12	239.57	0.090	277.28	0.150	361.25	0.120	452.86	0.300	483.67	0.360	462.87	0.4200	422.00	0.360	379.71	0.480
13	240.03	0.098	276.88	0.163	361.27	0.130	451.23	0.325	484.59	0.390	464.92	0.4550	423.12	0.390	377.55	0.520
14	240.49	0.105	276.48	0.175	360.75	0.140	449.59	0.350	485.14	0.420	465.88	0.4900	424.23	0.420	375.17	0.560
15	0		276.08	0.188	360.24	0.150	447.96	0.375	485.40	0.450	465.34	0.5250	425.29	0.450	372.79	0.600
16	0		275.68	0.200	359.72	0.160	446.33	0.400	482.56	0.480			426.10	0.480	370.41	0.640
17	0		275.28	0.213	359.21	0.170	444.70	0.425	479.42	0.510			426.78	0.510		
18	0				358.69	0.180			432.82	0.540			427.45	0.540		
19	0				358.18	0.190										
20	0				357.66	0.200										
Vsy [kN]	234.11		243.04		268.12		383.00		390.88		375.09		376.08		352.22	
δ_y [m]	0.0225		0.0375		0.0300		0.0500		0.0600		0.0700		0.0900		0.1200	

Curvas de capacidad para PUSHY (Desplazamiento-Cortante en la base)																
Modelo	MB2N		MC4N		MD6N		ME8N		MF12N		MG14N		MH16N		MI20N	
Pasos	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]	Vs [kN]	δ [m]
0	11.83	0.001	12.91	0.001	10.32	0.001	25.62	0.003	24.02	0.003	21.21	0.004	14.33	0.003	12.32	0.004
1	118.30	0.008	129.13	0.013	103.17	0.010	256.24	0.025	240.18	0.030	212.10	0.035	143.26	0.030	123.19	0.040

Curvas de capacidad para PUSHY (Desplazamiento-Cortante en la base)

Modelo	MB2N		MC4N		MD6N		ME8N		MF12N		MG14N		MH16N		MI20N	
2	181.86	0.015	204.31	0.025	206.34	0.020	383.00	0.050	402.98	0.060	375.09	0.070	286.53	0.060	246.38	0.080
3	233.15	0.023	243.05	0.038	268.12	0.030	407.70	0.075	443.25	0.090	409.81	0.105	376.08	0.090	352.22	0.120
4	235.05	0.030	263.71	0.050	288.95	0.040	427.31	0.100	464.24	0.120	422.40	0.140	396.61	0.120	388.57	0.160
5	235.51	0.038	274.66	0.063	304.20	0.050	444.38	0.125	481.59	0.150	430.94	0.175	403.77	0.150	390.43	0.200
6	235.97	0.045	279.68	0.075	318.51	0.060	452.78	0.150	495.79	0.180	437.47	0.210	408.37	0.180	390.36	0.240
7	236.43	0.053	279.28	0.088	330.72	0.070	457.74	0.175	508.60	0.210	443.51	0.245	411.93	0.210	389.18	0.280
8	236.89	0.060	278.88	0.100	340.96	0.080	462.69	0.200	519.36	0.240	448.52	0.280	414.55	0.240	387.63	0.320
9	237.35	0.068	278.48	0.113	349.68	0.090	465.74	0.225	529.09	0.270	453.03	0.315	417.00	0.270	385.87	0.360
10	237.81	0.075	278.08	0.125	354.50	0.100	464.11	0.250	534.62	0.300	456.89	0.350	418.74	0.300	383.95	0.400
11	238.26	0.083	277.68	0.138	357.88	0.110	462.48	0.275	540.13	0.330	460.51	0.385	420.48	0.330	381.83	0.440
12	238.72	0.090	277.28	0.150	361.25	0.120	460.85	0.300	545.64	0.360	462.56	0.420	422.00	0.360	379.71	0.480
13	239.18	0.098	276.88	0.163	361.27	0.130	459.22	0.325	551.14	0.390	464.61	0.455	423.12	0.390	377.55	0.520
14	239.64	0.105	276.48	0.175	360.75	0.140	457.59	0.350	556.65	0.420	465.67	0.490	424.23	0.420	375.17	0.560
15			276.08	0.188	360.24	0.150	455.96	0.375	560.06	0.450	464.68	0.525	425.29	0.450	372.79	0.600
16			275.68	0.200	359.72	0.160	454.32	0.400	562.29	0.480			426.10	0.480	370.41	0.640
17			275.28	0.213	359.21	0.170	423.24	0.425	564.52	0.510			426.78	0.510		
18					358.69	0.180			566.75	0.540			427.29	0.540		
19					358.18	0.190										
20					357.66	0.200										
Vsy [kN]	233.15		243.05		268.12		383.00		402.98		375.09		376.08		352.22	
δy [m]	0.0225		0.0375		0.0300		0.0500		0.0600		0.0700		0.0900		0.1200	

C-3. Resumen de resultados para el análisis *pushover*.

REUSLTADOS DE ANÁLISIS NO LINEAL											
Modelo	Cortante en la base				Coeficiente R_{μ}		Ductilidad global μ		Ductilidad local μ_L		
	Vs elástica		Vsy inelástica		PUSHX	PUSHY	PUSHX	PUSHY	Elemento	μ_L	
	dirX	dirY	Pushover X	Pushover Y						EXTREMO	CENTRO
MB2N	285.60	285.60	232.38	211.43	1.22	1.22	4.67	4.67	3 9 13 y 15	25.13	23.22
									6 12 14 16	25.55	23.22
MC4N	545.60	545.60	243.04	243.05	2.24	2.24	5.67	5.67	3 9 13 15 6 12 14 16 31 32 33 34	21.11	20.77
									35 36 37 38	25.55	20.77
MD6N	704.40	704.40	268.12	268.12	2.63	2.63	6.67	6.67	3 9 13 15	23.22	23.22
									6 12 14 16	23.22	23.22
									31 32 33 34	23.22	23.22
									35 36 37 38	23.22	23.22
									49 50 51 52 53 54 55 56	25.55	23.22
ME8N	873.20	873.20	383.00	383.00	2.28	2.28	8.50	8.50	3 9 13 15	22.84	21.11
									6 12 14 16 31 32 33 34	21.11	19.19
									35 36 37 38	21.11	21.11
									49 50 51 52	22.84	21.11
									53 54 55 56	23.22	21.11
									67 68 69 70	25.55	23.22
									71 72 73 74	25.55	23.22
MF12N	1065.20	1065.20	390.88	402.98	2.73	2.64	9.00	9.00	3 9 13 15	19.19	23.22
									6 12 14 16 35 36 37 38	19.19	21.11
									31 32 33 34	19.19	21.11
									49 50 51 52	19.19	19.19
									53 54 55 56	19.19	23.22
									67 68 69 70	19.19	23.22
									71 72 73 74	19.19	23.22

REUSLTADOS DE ANÁLISIS NO LINEAL												
Modelo	Cortante en la base				Coeficiente R μ		Ductilidad global μ		Ductilidad local μ L			
	Vs elástica		Vsy inelástica		PUSHX	PUSHY	PUSHX	PUSHY	Elemento	μ L		
	dirX	dirY	Pushover X	Pushover Y						EXTREMO	CENTRO	
										93 94 95 96	21.11	23.22
										97 98 99 100	23.22	25.55
										101 102 103 104	25.55	25.55
										105 106 107 108	21.11	25.55
MG14N	1068.40	1068.40	375.09	375.09	2.85	2.85	7.50	7.50		3 9 13 15	19.19	25.55
										6 12 14 16 49 50 51 52	19.19	21.11
										31 32 33 34	19.19	21.11
										35 36 37 38	19.19	21.11
										53 54 55 56	19.19	21.11
										67 68 69 70	19.19	21.11
										71 72 73 74	19.19	21.11
										93 94 95 96	19.19	23.22
										97 98 99 100	21.11	23.22
										101 102 103 104	21.11	23.22
										105 106 107 108	19.19	25.55
										121 122 123 124	25.55	25.55
										125 126 127 128	25.55	25.55
MH16N	1070.80	1070.80	376.08	376.08	2.85	2.85	6.00	6.00		3 9 13 15	19.19	21.11
										6 12 14 16	19.19	21.11
										31 32 33 34	19.19	21.11
										35 36 37 38	19.19	21.11
										49 50 51 52 53 54 55 56	19.19	21.11
										67 68 69 70	19.19	19.19
										71 72 73 74	19.19	19.19
										93 94 95 96	19.19	21.11

REUSLTADOS DE ANÁLISIS NO LINEAL											
Modelo	Cortante en la base				Coeficiente R μ		Ductilidad global μ		Ductilidad local μ L		
	Vs elástica		Vsy inelástica		PUSHX	PUSHY	PUSHX	PUSHY	Elemento	μ L	
	dirX	dirY	Pushover X	Pushover Y						EXTREMO	CENTRO
									97 98 99 100	19.19	23.22
									101 102 103 104	21.11	23.22
									105 106 107 108	21.11	23.22
									121 121 123 124	23.22	23.22
									125 126 127 128	23.22	25.55
									139 140 141 142	25.55	25.55
									143 144 145 146	25.55	25.55
									3 9 13 15	19.19	21.11
									6 12 14 16	19.19	21.11
									31 32 33 34	19.19	21.11
									35 36 37 38	19.19	21.11
									49 50 51 52	19.19	21.11
									53 54 55 56	19.19	21.11
									67 68 69 70 71 72 73 74	19.19	21.11
									93 94 95 96	21.11	19.19
									97 98 99 100	19.19	21.11
									101 102 103 104	19.19	21.11
									105 106 107 108	19.19	21.11
									121 122 123 124	19.19	23.22
									125 126 127 128	21.11	23.22
									139 140 141 142	21.11	23.22
									143 144 145 146	21.11	23.22
									165 166 167 168	23.22	25.55
									169 170 171 172	23.22	25.55
									173 174 175 176	25.55	25.55
M120N	1045.60	1045.60	352.22	352.22	2.97	2.97	5.33	5.33			

Resultados Pushover (Load case PSUHX)																		
Pasos	20%		30%		40%		50%		60%		70%		80%		90%		100%	
	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]
16																		
17																		
18																		
19																		
20																		
Vsy [kN]	80.147		95.198		103.522		155.362		128.172		188.586		211.131		222.737		234.110	
δy [m]	0.015		0.015		0.015		0.023		0.015		0.023		0.023		0.023		0.023	

Resultados Pushover (Load case PSUHX)																		
Pasos	120%		140%		160%		180%		200%		220%		240%		280%		300%	
	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]
0	12.20	0.001	12.20	0.001	12.20	0.001	12.20	0.001	12.20	0.001	12.20	0.001	12.20	0.001	12.20	0.001	12.20	0.001
1	122.01	0.008	122.01	0.008	122.01	0.008	122.01	0.008	122.01	0.008	122.01	0.008	122.01	0.008	122.01	0.008	122.01	0.008
2	206.53	0.015	230.54	0.015	242.21	0.015	244.02	0.015	244.02	0.015	244.02	0.015	244.02	0.015	244.02	0.015	244.02	0.015
3	265.87	0.023	292.80	0.023	320.86	0.023	339.92	0.023	355.73	0.023	361.04	0.023	366.03	0.023	366.03	0.023	366.03	0.023
4	278.39	0.030	328.24	0.030	362.54	0.030	386.42	0.030	420.36	0.030	429.43	0.030	463.20	0.030	470.50	0.030	475.75	0.030
5	279.17	0.038	329.43	0.038	364.11	0.038	390.36	0.038	444.61	0.038	456.75	0.038	500.04	0.038	547.58	0.038	552.61	0.038
6	279.96	0.045	330.62	0.045	365.55	0.045	392.01	0.045	446.68	0.045	458.95	0.045	505.52	0.045	578.04	0.045	590.50	0.045
7	280.75	0.053	331.82	0.053	366.99	0.053	393.66	0.053	448.75	0.053	461.16	0.053	508.05	0.053	587.35	0.053	622.45	0.053
8	281.53	0.060	333.01	0.060	368.43	0.060	395.31	0.060	450.82	0.060	463.36	0.060	510.58	0.060	592.48	0.060	629.35	0.060
9	282.32	0.068	334.20	0.068	369.88	0.068	396.96	0.068	452.89	0.068	465.57	0.068	513.10	0.068	595.65	0.068	632.91	0.068
10	283.10	0.075	335.40	0.075	371.32	0.075	398.61	0.075	454.96	0.075	467.77	0.075	515.63	0.075	598.81	0.075	636.47	0.075
11	283.89	0.083	336.59	0.083	372.76	0.083	400.26	0.083	457.04	0.083	469.97	0.083	518.16	0.083	601.98	0.083	640.03	0.083
12	284.68	0.090	337.78	0.090	374.20	0.090	401.91	0.090	459.11	0.090	472.18	0.090	520.69	0.090	605.14	0.090	643.59	0.090
13	285.46	0.098	338.98	0.098	375.64	0.098	403.56	0.098	461.18	0.098	474.38	0.098	523.22	0.098	608.31	0.098	647.14	0.098
14	286.25	0.105	340.17	0.105	377.08	0.105	405.21	0.105	463.25	0.105	476.58	0.105	525.75	0.105	611.47	0.105	650.70	0.105

Resultados Pushover (Load case PSUHX)																		
Pasos	120%		140%		160%		180%		200%		220%		240%		280%		300%	
	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]
15			341.366	0.113	378.52	0.113	406.86	0.113	465.32	0.113	478.79	0.113	528.28	0.113	614.64	0.113	654.26	0.113
16							408.51	0.120	467.39	0.120	480.99	0.120	530.81	0.120	617.80	0.120	657.82	0.120
17													533.34	0.128				
18																		
19																		
20																		
Vsy [kN]	265.871		292.797		320.860		339.919		355.730		429.434		463.198		547.584		552.614	
δy [m]	0.023		0.023		0.023		0.023		0.023		0.030		0.030		0.038		0.038	

Resultados Pushover (Load case PSUHY)																		
Pasos	20%		30%		40%		50%		60%		70%		80%		90%		100%	
	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]
1	4.17	0.0008	4.76	0.0008	5.19	0.0008	6.61	0.0008	6.98	0.0008	8.87	0.0008	9.87	0.0008	11.36	0.0008	11.83	0.0008
2	41.70	0.0075	47.56	0.0075	51.89	0.0075	66.13	0.0075	69.76	0.0075	88.69	0.0075	98.66	0.0075	113.60	0.0075	118.30	0.0075
3	80.15	0.0150	95.20	0.0150	103.71	0.0150	124.51	0.0150	128.17	0.0150	147.34	0.0150	157.43	0.0150	173.82	0.0150	181.86	0.0150
4	85.49	0.0225	116.25	0.0225	124.29	0.0225	155.36	0.0225	144.10	0.0225	188.59	0.0225	211.13	0.0225	222.74	0.0225	233.15	0.0225
5	90.83	0.0300	125.55	0.0300	133.02	0.0300	156.71	0.0300	154.12	0.0300	192.01	0.0300	211.81	0.0300	225.60	0.0300	235.05	0.0300
6	96.17	0.0375	131.32	0.0375	132.67	0.0375	156.56	0.0375	153.92	0.0375	192.13	0.0375	212.10	0.0375	225.98	0.0375	235.51	0.0375
7	99.81	0.0450	130.96	0.0450	132.33	0.0450	156.41	0.0450	153.72	0.0450	192.25	0.0450	212.39	0.0450	226.36	0.0450	235.97	0.0450
8	99.22	0.0525	130.61	0.0525	131.98	0.0525	156.25	0.0525	153.52	0.0525	192.37	0.0525	212.68	0.0525	226.74	0.0525	236.43	0.0525
9	98.63	0.0600	130.26	0.0600	131.64	0.0600	156.10	0.0600	153.31	0.0600	192.49	0.0600	212.97	0.0600	227.12	0.0600	236.89	0.0600
10	98.04	0.0675	129.90	0.0675	131.29	0.0675	155.95	0.0675	153.11	0.0675	192.61	0.0675	213.26	0.0675	227.50	0.0675	237.35	0.0675
11	97.45	0.0750	129.55	0.0750	130.95	0.0750	155.80	0.0750	152.91	0.0750	192.73	0.0750	213.55	0.0750	227.88	0.0750	237.81	0.0750
12	96.86	0.0825	129.20	0.0825	130.60	0.0825	155.65	0.0825	152.70	0.0825	192.85	0.0825	213.84	0.0825	228.27	0.0825	238.26	0.0825

Resultados Pushover (Load case PSUHY)																		
Pasos	20%		30%		40%		50%		60%		70%		80%		90%		100%	
	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]
13			128.85	0.0900	130.26	0.0900	155.49	0.0900	152.50	0.0900	192.97	0.0900	214.13	0.0900	228.65	0.0900	238.72	0.0900
14							155.34	0.0975	152.30	0.0975	193.09	0.0975	214.42	0.0975	229.03	0.0975	239.18	0.0975
15															229.41	0.1050	239.64	0.1050
16																		
17																		
18																		
19																		
20																		
Vsy [kN]	80.147		95.198		103.712		155.362		128.172		188.586		211.131		222.737		233.149	
δy [m]	0.015		0.015		0.015		0.023		0.015		0.023		0.023		0.023		0.023	

Resultados Pushover (Load case PSUHY)																		
Pasos	120%		140%		160%		180%		200%		220%		240%		280%		300%	
	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]
1	10.70	0.0008	12.20	0.0008	12.20	0.0008	12.20	0.0008	12.20	0.0008	12.20	0.0008	12.20	0.0008	12.20	0.0008	12.20	0.0008
2	106.96	0.0075	122.01	0.0075	122.01	0.0075	122.01	0.0075	122.01	0.0075	122.01	0.0075	122.01	0.0075	122.01	0.0075	122.01	0.0075
3	188.97	0.0150	230.54	0.0150	242.21	0.0150	244.02	0.0150	244.02	0.0150	244.02	0.0150	244.02	0.0150	244.02	0.0150	244.02	0.0150
4	239.43	0.0225	292.80	0.0225	320.86	0.0225	339.92	0.0225	355.73	0.0225	361.04	0.0225	366.03	0.0225	366.03	0.0225	366.03	0.0225
5	274.23	0.0300	328.24	0.0300	362.54	0.0300	386.42	0.0300	420.36	0.0300	429.43	0.0300	463.20	0.0300	470.50	0.0300	475.75	0.0300
6	278.22	0.0375	329.43	0.0375	364.11	0.0375	390.36	0.0375	444.61	0.0375	456.75	0.0375	500.04	0.0375	547.58	0.0375	552.61	0.0375
7	279.00	0.0450	330.62	0.0450	365.55	0.0450	392.01	0.0450	446.68	0.0450	458.95	0.0450	505.52	0.0450	578.04	0.0450	590.50	0.0450
8	279.79	0.0525	331.82	0.0525	366.99	0.0525	393.66	0.0525	448.75	0.0525	461.16	0.0525	508.05	0.0525	587.35	0.0525	622.45	0.0525
9	280.57	0.0600	333.01	0.0600	368.43	0.0600	395.31	0.0600	450.82	0.0600	463.36	0.0600	510.58	0.0600	592.48	0.0600	629.35	0.0600
10	281.35	0.0675	334.20	0.0675	369.88	0.0675	396.96	0.0675	452.89	0.0675	465.57	0.0675	513.10	0.0675	595.65	0.0675	632.91	0.0675
11	282.14	0.0750	335.40	0.0750	371.32	0.0750	398.61	0.0750	454.96	0.0750	467.77	0.0750	515.63	0.0750	598.81	0.0750	636.47	0.0750
12	282.92	0.0825	336.59	0.0825	372.76	0.0825	400.26	0.0825	457.04	0.0825	469.97	0.0825	518.16	0.0825	601.98	0.0825	640.03	0.0825

Resultados <i>Pushover</i> (Load case PSUHY)																		
Pasos	120%		140%		160%		180%		200%		220%		240%		280%		300%	
	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]	Vb [kN]	δ [m]
13	283.70	0.0900	337.78	0.0900	374.20	0.0900	401.91	0.0900	459.11	0.0900	472.18	0.0900	520.69	0.0900	605.14	0.0900	643.59	0.0900
14	284.48	0.0975	338.98	0.0975	375.64	0.0975	403.56	0.0975	461.18	0.0975	474.38	0.0975	523.22	0.0975	608.31	0.0975	647.14	0.0975
15	285.27	0.1050	340.17	0.1050	377.08	0.1050	405.21	0.1050	463.25	0.1050	476.58	0.1050	525.75	0.1050	611.47	0.1050	650.70	0.1050
16			341.37	0.1125	378.52	0.1125	406.86	0.1125	465.32	0.1125	478.79	0.1125	528.28	0.1125	614.64	0.1125	654.26	0.1125
17							408.51	0.1200	467.39	0.1200	480.99	0.1200	530.81	0.1200	617.80	0.1200	657.82	0.1200
18													533.34	0.1275				
19																		
20																		
Vsy [kN]	239.426		292.797		320.860		339.919		355.730		429.434		463.198		547.584		552.614	
δ_y [m]	0.023		0.023		0.023		0.023		0.023		0.030		0.030		0.038		0.038	

D. Anexo: Resumen de fuerzas

D-1. Resultados de momento para el diseño, la fluencia por momento-curvatura y la fluencia para la primera rotula plástica por análisis *pushover*.

Modelo	LOAD COMBO	ELEMENTOS	MOMENTOS [kN.m]													
			MODELO + R		MODELO + SINR		MOMENTO-CURVATURA (My)		PUSHOVER							
									sismo DIR X (PUSHX)				sismo DIR Y (PUSHY)			
			EXTREMO	CENTRO	EXTREMO	CENTRO	EXTREMO	CENTRO	PASO	EXTREMO IZ	CENTRO	EXTREMO D	PASO	EXTREMO IZ	CENTRO	EXTREMO D
MB2N	5. U: 1.2D-1/RSX+1L / 2. U: 1.2D+16L	3 y 9	-74.55	34.00	-139.03	34.00	34.06	49.86	1	-5.92	31.10	-88.60	-	-48.50	28.4	-48.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	34.06	49.86	-	-48.50	28.40	-48.50	1	-5.90	31.10	-88.60
	5. U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	6 y 12	-70.9	36.71	-130.82	36.69	34.10	49.86	2	13.80	47.20	-83.60	-	-44.50	32.40	-44.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	14 y 16	-70.9	36.71	-130.82	36.69	34.10	49.86	-	-44.50	32.40	-44.50	2	13.80	47.20	-83.60
MC4N	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	3 9	-102.68	37.11	-266.31	112.70	57.54	57.57	4	24.40	49.30	-122.70	-	-52.80	29.5	-52.80
	6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	13 15	-102.68	37.11	-266.31	112.70	57.54	57.57	-	-52.80	29.50	-52.80	4	24.40	49.30	-122.70
	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	6 12	-109.61	36.7	-299.42	128.67	57.54	57.57	3	19.20	45.50	-122.30	-	-53.10	29.10	-53.10
	6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	14 16	-109.61	36.7	-299.42	128.67	57.54	57.57	-	-53.10	29.10	-53.10	3	19.20	45.50	-122.30
	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	31 32	-101.75	35.88	-257.11	106.38	57.54	57.57	4	22.00	47.50	-122.70	-	-53.80	28.50	-53.80
	6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	33 34	-101.75	35.88	-257.11	106.38	57.54	57.57	-	-53.80	28.50	-53.80	4	22.00	47.50	-122.70
	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	35 36	-85.72	39.86	-191.75	79.26	39.85	57.57	4	1.30	38.50	-96.60	-	-50.60	31.70	-50.60

	6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	37 38	-85.72	37.06	-191.75	79.26	39.85	57.57	-	-50.60	31.70	-50.60	4	1.40	38.50	-96.60
MD6N	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3 Y 9	-163.73	65.2	-362.75	160.50	87.44	87.81	3	92.00	89.20	-178.80	-	-52.70	33.8	-52.70
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	13 15	-163.73	65.2	-362.75	160.50	87.44	87.81	-	-52.70	33.80	52.70	3	92.00	89.20	-178.80
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	6 12	-179.54	71.21	-434.23	195.19	87.40	87.81	3	97.60	87.80	-201.50	-	-53.80	32.70	-53.80
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	14 16	-179.54	71.21	-434.23	195.19	87.40	87.81	-	-53.80	32.70	-53.80	3	97.60	87.70	-201.50
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	31 32	-167.76	65.61	-412.97	184.72	87.40	87.81	3	97.30	91.80	-184.30	-	-53.70	33.10	-53.70
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	33 34	-167.76	65.61	-412.97	184.72	87.40	87.81	-	-53.70	32.90	53.70	3	97.30	91.80	-184.30
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	35 36	-145.11	54.73	-349.65	153.37	87.47	87.81	3	67.80	75.20	-162.30	-	-53.40	33.10	-53.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	37 38	-145.11	54.73	-349.65	153.37	87.47	87.81	-	-53.40	33.10	-53.40	3	67.80	75.20	-162.30
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	49 50	-118.94	39.84	-268.77	111.36	67.19	67.39	4	41.30	60.80	-140.40	-	-54.80	31.70	-54.80
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	51 52	-118.94	39.84	-268.77	111.36	67.19	67.39	-	-54.80	31.70	-54.80	4	41.30	60.80	-140.40
	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	53 54	-85.16	48.10	-189.65	78.52	67.19	67.39	8	54.10	70.40	-140.30	-	-48.20	38.30	-48.20
6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	55 56	-85.16	48.10	-189.65	78.52	67.19	67.39	-	-48.20	38.30	-48.20	8	54.10	70.40	-140.30	
ME8N	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3 Y 9	-196.36	75.86	-450.86	203.11	113.47	113.84	2	125.50	107.00	-226.90	-	-56.40	36.3	-56.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	13 15	-196.36	75.86	-450.86	203.11	113.47	113.84	-	-56.40	36.40	-56.40	2	125.50	107.00	-226.90
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	6 12	-232.19	92.62	-556.94	255.00	159.95	144.56	2	173.20	130.30	-277.10	-	-57.60	35.10	-57.60
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	14 16	-232.19	92.62	-556.94	255.00	159.95	144.56	-	-57.60	35.10	-57.60	2	173.30	130.30	-277.10
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	31 32	-232.09	92.83	-556.98	255.27	159.95	144.56	2	173.20	130.20	-277.10	-	-57.30	35.40	-57.30
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	33 34	-232.09	92.83	-556.98	255.27	159.95	144.56	-	-57.30	35.40	-57.30	2	173.20	130.20	-277.10
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	35 36	-217.45	85.47	-512.95	233.22	149.23	121.98	2	174.80	137.20	-254.10	-	-57.40	35.30	-57.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	37 38	-217.45	85.47	-512.95	233.22	149.23	121.98	-	-574.00	35.30	-57.40	2	174.80	137.20	-276.90
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	49 50	-195.28	74.31	-446.28	199.81	113.47	113.84	2	125.20	106.80	-226.30	-	-57.40	35.30	-57.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	51 52	-195.28	74.31	-446.28	199.81	113.47	113.84	-	-57.40	35.30	-57.40	2	125.20	106.80	-226.30
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	53 54	-167.93	61.02	-364.64	159.37	99.54	97.80	2	94.60	90.40	-200.20	-	-57.10	35.60	-57.10
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	55 56	-167.93	61.02	-364.64	159.37	99.54	97.80	-	-57.10	35.60	-57.10	2	94.60	90.40	-200.20
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	67 68	-139.32	45.02	-276.47	113.60	76.39	75.05	3	68.00	77.50	-172.00	-	-58.60	34.10	-58.60
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	69 70	-139.32	45.02	-276.47	113.60	76.39	75.05	-	-58.60	34.10	-58.60	3	68.00	77.50	-172.00
	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	71 72	-108.73	45.73	-194.36	79.85	76.40	75.05	5	69.50	81.20	-162.20	-	-51.50	41.20	-51.50
6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	73 74	-108.73	45.73	-194.36	79.85	76.40	75.05	-	-51.50	41.20	-51.50	5	11.50	49.70	-114.10	

MF12N	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3 9	-198.05	88.27	-509.09	243.79	206.06	128.31	2	162.90	139.30	-229.80	-	-60.10	39.2	-60.10
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	13 15	-198.05	88.27	-509.09	243.79	206.06	128.31	-	-60.10	39.20	-60.10	2	162.10	138.70	-229.70
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	6 12	-248.08	112.72	-652.98	315.17	211.83	160.99	2	224.00	171.50	-284.00	-	-61.50	37.80	-61.50
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	14 16	-248.08	112.72	-652.98	315.17	211.83	160.99	-	-61.60	37.80	-61.60	2	221.70	169.80	-284.00
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	31 32	-256.12	116.87	-676.38	327.00	211.74	160.99	2	229.00	169.60	-306.70	-	-61.30	38.00	-61.30
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	33 34	-256.12	116.87	-676.38	327.00	211.74	160.99	-	-61.30	38.00	-61.30	2	228.90	169.60	-306.60
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	35 36	-248.78	113.17	-655.13	316.34	211.83	160.99	2	228.80	175.10	-284.10	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	37 38	-248.78	113.17	-655.13	316.34	211.83	160.99	-	-61.40	38.00	-61.40	2	227.30	174.00	-284.10
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	49 50	-235.44	106.5	-616.56	297.07	211.87	160.68	2	214.30	168.90	-265.30	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	51 52	-235.44	106.5	-616.56	297.07	211.87	160.68	-	-61.40	38.00	-61.40	2	213.40	168.30	-265.20
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	53 54	-219.48	98.52	-570.44	274.00	211.85	110.05	2	193.10	156.40	-251.60	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	55 56	-219.48	98.52	-570.44	274.00	211.85	110.05	-	-61.40	38.00	-61.40	2	193.60	156.80	-251.60
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	67 68	-201.67	89.62	-518.96	248.26	206.06	128.31	2	160.50	137.50	-229.70	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	69 70	-201.67	89.62	-518.96	248.26	206.06	128.31	-	-61.40	38.00	61.40	2	162.10	138.70	-229.70
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	71 72	-181.52	79.55	-460.76	219.17	211.85	128.36	-	-61.40	38.00	-61.40	2	130.50	115.10	-229.10
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	73 74	-181.52	79.55	-460.76	219.17	211.85	128.36	2	128.60	113.70	-229.10	-	-61.40	38.00	-61.40
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	93 94	-158.2	67.85	-393.28	185.39	160.73	110.17	3	117.80	105.60	-228.90	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	95 96	-158.2	67.85	-393.28	185.39	160.73	110.17	-	-61.40	37.90	-61.40	3	123.70	110.10	-229.00
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	97 98	-130.98	54.42	-314.86	146.36	109.83	84.44	4	82.30	85.90	-201.40	-	-61.10	38.20	-61.10
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	99 100	-130.98	54.42	-314.86	146.36	109.83	84.44	-	-61.10	38.20	-61.10	4	90.60	92.10	-201.60
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	101 102	-101.88	39.06	-229.73	102.99	84.21	84.44	6	52.90	70.70	-174.00	-	-62.70	36.70	-62.70	
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	103 104	-101.88	39.06	-229.73	102.99	84.21	84.44	-	-62.70	36.70	-62.70	6	67.70	81.80	-174.20	
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	105 106	-73.88	28.64	-153.31	68.35	160.73	84.44	7	13.30	54.60	-119.50	-	-55.00	44.40	-55.00	
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	107 108	-73.88	28.63	-153.31	68.35	160.73	84.44	-	-55.00	44.40	55.00	7	30.50	67.50	-119.70	
MG14N	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3 9	-201.43	89.96	-815.66	399.36	206.06	128.48	2	152.60	131.60	-229.50	-	-60.10	39.3	-60.10
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	13 15	-201.43	89.96	-841.13	413.36	206.06	128.48	-	-60.20	39.20	-60.20	2	152.60	131.60	-229.50
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	6 12	-253.13	115.25	-979.94	480.49	211.83	160.99	2	208.60	160.30	-283.70	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	14 16	-253.13	115.25	-978.84	480.95	211.83	160.99	-	-61.50	37.90	-61.50	2	208.90	160.30	-283.70
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	31 32	-262.54	120.08	-988.92	485.20	235.17	166.87	2	221.80	164.30	-306.30	-	-61.10	38.30	-61.10

	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	33 34	-262.54	120.08	-974.96	479.28	235.17	166.87	-	-61.20	38.10	-61.20	2	221.80	164.30	-306.30
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	35 36	-256.8	117.18	-955.41	468.40	211.74	166.87	2	219.50	162.60	-306.30	-	-61.30	38.00	-61.30
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	37 38	-256.8	117.18	-937.38	460.43	211.74	166.87	-	-61.40	38.00	-61.40	2	219.50	162.60	-306.30
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	49 50	-245.64	111.61	-907.48	444.44	211.83	160.99	2	209.10	160.50	-283.70	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	51 52	-245.64	111.61	-888.82	436.16	211.83	160.99	-	-61.40	38.00	-61.40	2	209.10	160.50	-283.70
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	53 54	-232.89	105.23	-853	417.20	211.87	161.05	2	196.50	155.70	-264.90	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	55 56	-232.89	105.23	-835.11	409.31	211.87	161.05	-	-61.40	38.00	-61.40	2	196.50	155.70	-264.90
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	67 68	-219.73	98.65	-794.03	387.71	211.85	161.08	2	177.80	145.00	-251.30	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	69 70	-219.73	98.65	-777.6	380.55	211.85	161.08	-	-61.30	38.00	-61.30	2	177.80	145.00	-251.30
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	71 72	-206.06	91.82	-715.54	349.52	211.85	134.44	-	-61.10	38.20	-61.10	2	157.40	129.80	-250.90
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	73 74	-206.06	91.82	-730.12	355.76	211.85	134.44	2	157.40	129.80	-250.90	-	-61.10	38.20	-61.10
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	93 94	-191.04	84.3	-659.27	320.33	206.06	128.36	2	126.20	111.90	-229.10	-	-61.10	38.20	-61.10
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	95 96	-191.04	84.3	-646.78	315.14	206.06	128.36	-	-61.20	38.20	-61.20	2	126.20	111.90	-229.10
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	97 98	-173.45	75.52	-578.64	280.03	166.66	110.05	3	127.60	113.00	-229.00	-	-61.40	37.90	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	99 100	-173.45	75.52	-568.34	275.93	166.66	110.05	-	-61.40	37.90	-61.40	3	127.60	113.00	-229.00
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	101 102	-152.22	64.86	-485.39	233.35	110.17	110.17	5	121.30	108.30	-228.90	-	-61.40	37.90	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	103 104	-89.92	34.61	-477.17	230.28	110.17	110.17	-	-61.40	37.90	-61.40	5	121.30	1083.00	-228.90
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	105 106	-126.71	52.29	-377.29	179.58	108.45	84.44	6	73.90	130.00	-229.50	-	-61.10	38.20	-61.10
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	107 108	-126.71	52.29	-370.47	177.26	108.45	84.44	-	-61.40	38.20	-61.10	6	73.90	82.30	-190.60
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	121 122	-99.02	37.63	-258.23	118.74	84.21	84.44	9	51.70	69.80	-174.00	-	-62.70	36.70	-62.70
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	123 124	-99.02	37.63	-251.05	115.99	84.21	84.44	-	-62.70	36.70	-62.70	9	51.70	69.80	-174.00	
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	125 126	-72.12	27.75	-145.42	68.39	84.37	84.44	11	21.10	60.40	-119.60	-	-55.00	44.40	-55.00	
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	127 128	-72.12	27.75	-133.05	64.28	84.37	84.44	-	-55.00	44.40	-55.00	11	20.90	60.30	-119.50	
MH16N	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3 9	-204.13	91.31	-514.14	246.31	211.99	134.44	3	151.60	130.80	-229.50	-	-60.30	39.00	-60.30
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	13 15	-204.13	91.31	-514.14	246.31	211.99	134.44	-	-60.30	39.00	-60.30	3	151.60	130.80	-229.50
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	6 12	-257.15	117.26	-662.84	320.10	235.17	166.87	3	216.40	160.30	-306.20	-	-61.60	37.80	-61.60
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	14 16	-257.15	117.26	-662.84	320.10	235.17	166.87	-	-61.60	37.80	-61.60	3	216.40	160.30	-306.20
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	31 32	-267.58	122.6	-692.36	334.99	235.17	179.70	3	226.60	167.80	-306.50	-	-61.30	38.00	-61.30
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	33 34	-267.58	122.6	-692.36	334.99	235.17	179.70	-	-61.30	38.00	-61.30	3	226.60	167.80	-306.50

	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	35 36	-262.83	120.2	-678.96	328.26	235.07	166.87	3	230.80	171.00	-306.50	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	37 38	-262.83	120.2	-678.96	328.26	235.07	166.87	-	-61.40	38.00	-61.40	3	230.80	171.00	-306.50
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	49 50	-252.78	115.17	-650.63	314.10	211.83	160.99	3	223.60	171.20	-284.00	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	51 52	-252.78	115.17	-650.63	314.10	211.83	160.99	-	-61.40	38.00	-61.40	3	223.60	171.20	-284.00
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	53 54	-241.38	109.48	-618.54	298.05	211.83	160.99	3	220.40	168.80	-283.90	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	55 56	-241.38	109.48	-618.54	298.05	211.83	160.99	-	-61.40	38.00	-61.40	3	220.40	168.80	-283.90
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	67 68	-230.17	103.87	-586.94	282.25	211.87	160.68	3	206.40	163.00	-265.10	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	69 70	-230.17	103.87	-586.94	282.25	211.87	160.68	-	-61.40	38.00	-61.40	3	206.40	163.00	-265.10
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	71 72	-219.45	98.51	-556.75	267.16	211.85	160.73	-	-61.40	38.00	-61.40	3	189.10	153.40	-251.50
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	73 74	-219.45	98.51	-556.75	267.16	211.85	160.73	3	189.10	153.40	-251.50	-	-61.40	38.00	-61.40
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	93 94	-208.84	93.21	-526.87	252.22	211.85	134.44	3	171.00	140.00	-251.10	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	95 96	-208.84	93.21	-526.87	252.22	211.85	134.44	-	-61.40	38.00	-61.40	3	171.00	140.00	-251.10
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	97 98	-197.47	87.52	-494.84	236.21	206.06	128.31	3	141.50	123.30	-229.40	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	99 100	-197.47	87.52	-494.84	236.21	206.06	128.31	-	-61.40	38.00	-61.40	3	141.50	123.30	-229.40
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	101 102	-184.23	80.9	-457.53	217.55	187.45	128.36	3	117.20	105.20	-228.90	-	-61.40	38.00	61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	103 104	-184.23	80.9	-457.53	217.55	187.45	128.36	-	-61.40	38.00	-61.40	3	117.20	105.20	-228.90
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	105 106	-167.96	72.77	-411.73	72.77	160.73	110.05	5	111.60	101.90	-225.30	-	-61.40	38.00	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	107 108	-167.96	72.77	-411.73	194.65	160.73	110.05	-	-61.40	38.00	-61.40	5	111.60	101.90	-225.30
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	121 122	-147.78	62.64	-354.82	166.16	137.13	110.17	9	106.00	98.50	-221.90	-	-61.40	37.90	-61.40
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	123 124	-147.78	62.64	-354.82	166.16	137.13	110.17	-	-61.40	37.90	-61.40	9	106.00	98.50	-221.90
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	125 126	-123.23	50.55	-285.88	131.87	109.91	84.44	12	72.60	81.30	-190.60	-	-61.10	38.20	-61.10
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	127 128	-123.23	50.55	-285.88	131.87	109.91	84.44	-	-61.10	38.20	-61.10	12	72.60	81.30	-190.60
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	139 140	-96.55	36.39	-209.74	92.99	84.33	84.44	14	22.50	54.70	-146.70	-	-62.70	36.70	-62.70
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	141 142	-96.55	36.39	-209.74	92.99	84.33	84.44	-	-62.70	36.70	-62.70	14	22.50	54.70	-146.70
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	143 144	-70.54	26.96	-140.81	62.10	84.37	84.44		-10.10	44.90	-98.70	-	-55.00	44.40	-55.00	
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	145 146	-70.54	26.96	-140.81	62.10	84.37	84.44	-	-55.00	44.40	-55.00		-10.30	44.90	-98.60	
MIZON	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3 9	-208.84	93.66	-504.85	241.67	211.85	134.44	3	136.80	114.50	-250.40	-	-60.30	39.00	-60.30
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	13 15	-208.84	93.66	-504.85	241.67	211.85	134.44	-	-60.30	39.00	-60.30	3	136.80	114.50	-250.40
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	6 12	-264.37	120.87	585.75	315.43	235.17	179.70	3	185.70	137.40	-305.50	-	-61.60	37.80	-61.60

6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	14 16	-264.37	120.87	-653.49	315.43	235.17	179.70	-	-61.60	37.80	-61.60	3	185.70	137.40	-305.50
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	31 32	-276.98	127.3	-687.54	332.58	234.91	179.64	4	251.00	179.20	-334.10	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	33 34	-276.98	127.3	-687.54	332.58	234.91	179.64	-	-61.40	38.00	-61.40	4	251.00	179.20	-334.10
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	35 36	-274.56	126.06	-680.99	329.27	235.07	179.64	3	199.90	147.00	-309.80	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	37 38	-274.56	126.06	-680.99	329.27	235.07	179.64	-	-61.40	38.00	-61.40	3	199.90	144.00	-322.40
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	49 50	-266.86	122.21	-660.29	318.93	235.17	179.70	3	200.80	148.70	-305.80	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	51 52	-266.86	122.21	-660.29	318.93	235.17	179.70	-	-61.40	38.00	-61.40	3	200.80	148.70	-305.80
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	53 54	-257.62	117.59	-635.46	306.52	211.74	166.87	3	201.40	149.10	-305.80	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	55 56	-257.62	117.59	-635.46	306.52	211.74	166.87	-	-61.40	38.00	-61.40	3	201.40	149.10	-305.80
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	67 68	-248.23	112.9	-610.23	293.90	211.83	160.99	3	192.20	147.80	-283.30	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	69 70	-248.23	112.9	-610.23	293.90	211.83	160.99	-	-61.40	38.00	-61.40	3	192.20	147.80	-283.30
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	71 72	-239.15	108.36	-585.8	281.68	211.83	160.99	-	-61.40	38.00	-61.40	3	185.00	142.50	-283.20
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	73 74	-239.15	108.36	-585.8	281.68	211.83	160.99	3	185.00	142.50	-283.20	-	-61.40	38.00	-61.40
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	93 94	-230.41	103.99	-562.33	269.95	213.44	160.68	4	229.50	154.50	-368.80	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	95 96	-230.41	103.99	-562.33	269.95	213.44	160.68	-	-61.40	38.00	-61.40	4	229.50	154.50	-368.80
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	97 98	-221.91	99.74	-539.47	258.52	211.85	161.08	3	165.10	135.60	-251.00	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	99 100	-221.91	99.74	-539.47	258.52	211.85	161.08	-	-61.40	38.00	-61.40	3	165.10	135.60	-251.00
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	101 102	-213.41	95.49	-516.62	247.09	211.85	134.44	3	161.40	132.80	-250.90	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	103 104	-213.41	95.49	-516.62	247.09	211.85	134.44	-	-61.40	38.00	-61.40	3	161.40	132.80	-250.90
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	105 106	-204.6	91.08	-492.94	235.25	211.99	134.44	3	142.30	123.90	-229.40	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	107 108	-204.6	91.08	-492.94	235.25	211.99	134.44	-	-61.40	38.00	-61.40	3	142.30	123.90	-229.40
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	121 122	-195.07	86.32	-467.31	222.44	206.06	128.36	3	125.10	111.00	-229.10	-	61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	123 124	-195.07	86.32	-467.31	222.44	206.06	128.36	-	-61.40	38.00	-61.40	3	125.10	111.00	-229.10
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	125 126	-184.27	80.92	-438.29	207.93	187.45	128.36	4	130.60	115.20	-229.10	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	127 128	-184.27	80.92	-438.29	207.93	187.45	128.36	-	-61.40	38.00	-61.40	4	130.60	115.20	-229.10
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	139 140	-171.56	74.56	-404.12	190.84	166.66	110.05	5	107.10	97.70	-228.70	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	141 142	-171.56	74.56	-404.12	190.84	166.66	110.05	-	-61.40	38.00	-61.40	5	107.10	97.70	-228.70
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	143 144	-156.17	66.88	-362.76	170.17	160.73	110.17	13	109.50	99.50	-228.70	-	-61.40	38.00	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	145 146	-156.17	66.88	-362.76	170.17	160.73	110.17	-	-61.40	38.00	-61.40	13	109.50	99.50	-228.70

5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	165 166	-137.44	57.47	-312.36	144.93	127.99	84.44		-14.60	38.10	-108.00	-	-61.40	37.90	-61.40
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	167 168	-137.44	57.47	-312.36	144.93	127.99	84.44	-	-61.40	37.90	-61.40		-14.60	38.10	108.00
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	169 170	-114.95	46.41	-252.1	114.98	109.92	84.44		-34.70	38.20	-87.60	-	-61.10	38.20	-61.10
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	171 172	-114.95	46.41	-252.1	114.98	109.92	84.44	-	-61.10	38.20	-61.10		-34.70	38.20	-87.60
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	173 174	-90.73	46.41	-186.08	81.16	84.32	84.44		-47.40	36.70	-78.00	-	-62.70	36.70	-62.70
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	175 175	-90.73	33.48	-186.08	81.16	84.32	84.44	-	-62.70	36.70	-62.70		-47.40	36.70	-78.00
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	177 178	-34.25	20.95	-126.08	23.67	84.37	84.44		-47.80	44.40	-62.60	-	-55.00	44.40	-55.00
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	179 180	-90.73	20.95	-126.08	23.67	84.37	84.44	-	-55.00	44.40	-55.00		-47.30	44.40	-62.60

D-2. Resultados de momento para el diseño, la fluencia por momento-curvatura y la fluencia para la primera rotula plástica por análisis *pushover*. Para variación de cuantías

%ρ	LOAD COMBO	ELEMENTOS	MOMENTOS [kN.m]															
			MODELO + R		MODELO + SINR		MOMENTO-CURVATURA (My)		PUSHOVER									
											sismo DIR X (PUSHX)				sismo DIR Y (PUSHY)			
			EXTREMO	CENTRO	EXTREMO	CENTRO	EXTREMO	CENTRO	PASO	EXTREMO IZ	CENTRO	EXTREMO D	PASO	EXTREMO IZ	CENTRO	EXTREMO D		
20%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+1.6L	3 y 9	-74.55	34.00	-139.03	34.00	20.00	20.00	1	-13.50	58.70	-23.00	1	-22.20	54.70	-22.20		
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	20.00	20.00	1	-22.00	54.70	-22.20	1	-13.50	58.70	-23.00		
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+1.6L	6 y 12	-70.90	36.71	-130.82	36.69	20.00	20.00	1	-11.10	59.90	-23.00	1	-21.20	55.80	-21.20		
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	20.00	20.00	1	-21.20	55.80	21.20	1	-11.10	59.90	-23.00		
30%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+1.6L	3 y 9	-74.55	34.00	-139.03	34.00	20.00	20.00	1	-18.50	51.30	-32.80	1	-32.50	44.50	-32.50		
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	20.00	20.00	1	-32.50	44.50	-32.50	1	-18.50	51.30	-32.80		
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+1.6L	6 y 12	-70.90	36.71	-130.82	36.69	20.00	20.00	1	-16.90	51.70	-33.60	1	-33.20	43.70	-33.20		
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	20.00	20.00	1	-33.20	43.70	-33.20	1	-16.90	51.70	-33.60		
40%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+1.6L	3 y 9	-74.55	34.00	-139.03	34.00	20.03	28.79	1	-21.20	46.90	-38.90	1	-38.50	38.40	-38.50		
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	20.03	28.79	1	-38.50	38.40	-38.50	1	-21.20	46.90	-38.90		
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+1.6L	6 y 12	-70.90	36.71	-130.82	36.69	20.03	28.79	1	-19.00	48.00	-38.90	1	-38.40	38.50	-38.40		
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	20.03	28.79	1	-38.40	38.50	-38.40	1	-18.70	48.10	-38.90		
50%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+1.6L	3 y 9	-74.55	34.00	-139.03	34.00	20.02	28.79	1	-23.10	39.60	-51.60	-	-48.40	28.50	-48.40		

%ρ	LOAD COMBO	ELEMENTOS	MOMENTOS [kN.m]													
			MODELO + R		MODELO + SINR		MOMENTO-CURVATURA (My)		PUSHOVER							
									sismo DIR X (PUSHX)				sismo DIR Y (PUSHY)			
			EXTREMO	CENTRO	EXTREMO	CENTRO	EXTREMO	CENTRO	PASO	EXTREMO IZ	CENTRO	EXTREMO D	PASO	EXTREMO IZ	CENTRO	EXTREMO D
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	20.02	28.79	-	-48.40	28.50	-48.40	1	-23.10	39.60	-51.60
	5.U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	6 y 12	-70.90	36.71	-130.82	36.69	20.02	28.79	1	-19.00	41.60	-51.50	-	-44.50	32.40	-44.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	20.02	28.79	-	-44.50	32.40	-44.50	1	-19.00	41.60	-51.50
60%	5.U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	3 y 9	-74.55	34.00	-139.03	34.00	29.32	34.10	1	-21.20	38.30	-56.00	-	-48.40	28.60	-48.40
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	29.32	34.10	-	-48.40	28.60	-48.40	1	-21.20	3.30	-56.00
	5.U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	6 y 12	-70.90	36.71	-130.82	36.69	29.30	34.10	1	-18.80	41.60	-51.80	-	-44.50	32.40	-44.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	29.30	34.10	-	-44.50	32.40	-44.50	1	-18.80	41.60	-51.80
70%	5.U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	3 y 9	-74.55	34.00	-139.03	34.00	29.27	37.53	1	-14.80	34.60	-69.90	-	-48.50	28.50	-48.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	29.27	37.53	-	-48.50	28.50	-48.50	1	-14.80	34.60	-69.90
	5.U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	6 y 12	-70.90	36.71	-130.82	36.69	29.29	37.53	1	-16.10	38.50	-60.80	-	-44.50	32.40	-44.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	29.29	37.53	-	-44.50	32.40	-44.50	1	-16.10	38.50	-60.80
80%	5.U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	3 y 9	-74.55	34.00	-139.03	34.00	29.30	46.69	1	-13.30	34.10	-72.40	-	-48.50	28.40	-48.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	29.30	46.69	-	-48.50	28.40	-48.50	1	-13.30	34.10	-72.40
	5.U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	6 y 12	-70.90	36.71	-130.82	36.69	29.27	46.69	1	-13.80	35.20	-69.70	-	-44.50	32.40	-44.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	29.27	46.69	-	-44.50	32.40	-44.50	1	-13.80	35.20	-69.70
90%	5.U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	3 y 9	-74.55	34.00	-139.03	34.00	34.07	49.86	1	-8.30	31.30	-83.00	-	-48.50	28.50	-48.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	34.07	49.86	-	-48.50	28.50	-48.50	1	-8.30	31.30	-83.00
	5.U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	6 y 12	-70.90	36.71	-130.82	36.69	34.14	49.86	2	12.60	47.30	-79.50	-	-44.50	32.40	-44.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	34.14	49.86	-	44.50	32.40	-44.50	2	12.60	47.30	-79.50
100%	5.U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	3 y 9	-74.55	34.00	-139.03	34.00	34.06	49.86	1	-5.92	31.10	-88.60	-	-48.50	28.40	-48.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	34.06	49.86	-	-48.50	28.40	-48.50	1	-5.90	31.10	-88.60
	5. U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	6 y 12	-70.90	36.71	-130.82	36.69	34.10	49.86	2	13.80	47.20	-83.60	-	-44.50	32.40	-44.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	34.10	49.86	-	-44.50	32.40	-44.50	2	13.80	47.20	-83.60
120%	5.U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	3 y 9	-74.55	34.00	-139.03	34.00	46.51	64.18	2	26.10	50.90	-105.70	-	-48.50	28.40	-48.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	46.51	64.18	-	-47.50	29.40	-47.50	2	25.90	50.70	-105.60

%ρ	LOAD COMBO	ELEMENTOS	MOMENTOS [kN.m]													
			MODELO + R		MODELO + SINR		MOMENTO-CURVATURA (My)		PUSHOVER							
									sismo DIR X (PUSHX)				sismo DIR Y (PUSHY)			
			EXTREMO	CENTRO	EXTREMO	CENTRO	EXTREMO	CENTRO	PASO	EXTREMO IZ	CENTRO	EXTREMO D	PASO	EXTREMO IZ	CENTRO	EXTREMO D
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	-70.90	36.71	-130.82	36.69	46.49	64.18	2	17.80	46.70	-97.10	-	-44.50	32.40	-44.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	14 y 16	-70.90	36.71	-130.82	36.69	46.49	64.18	-	-42.80	34.10	-42.80	2	14.10	44.00	96.80
140%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	-74.55	34.00	-139.03	34.00	49.57	71.94	2	33.50	52.50	-121.40	-	-48.50	28.40	-48.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	13 y 15	-74.55	34.00	-139.03	34.00	49.57	71.94	-	-48.50	28.40	-48.50	2	33.50	52.50	-121.30
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	-70.90	36.71	-130.82	36.69	49.67	71.94	3	46.40	63.60	-115.60	-	-44.50	32.40	-44.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	14 y 16	-70.90	36.71	-130.82	36.69	49.67	71.94	-	-44.50	32.40	-44.50	3	46.40	63.60	-115.60
160%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	-74.55	34.00	-139.03	34.00	71.63	80.81	2	39.60	53.50	-135.40	-	-48.50	28.40	-48.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	13 y 15	-74.55	34.00	-139.03	34.00	71.63	80.81	-	-48.50	28.40	-48.50	2	39.60	53.50	-135.40
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	-70.90	36.71	-130.82	36.69	55.48	80.81	3	51.50	63.00	-133.30	-	-44.50	32.40	-44.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	14 y 16	-70.90	36.71	-130.82	36.69	55.48	80.81	-	-44.50	32.40	-44.50	3	51.50	63.00	-133.30
180%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	-74.55	34.00	-139.03	34.00	64.87	95.96	3	71.50	73.60	-150.90	-	-48.50	28.50	-48.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	13 y 15	-74.55	34.00	-139.03	34.00	64.87	95.96	-	-48.50	28.50	-48.50	3	71.50	73.60	-150.90
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	-70.90	36.71	-130.82	36.69	63.88	95.96	4	70.30	72.70	-150.70	-	-44.50	32.40	-44.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	14 y 16	-70.90	36.71	-130.82	36.69	63.88	95.96	-	-44.50	32.40	-44.50	4	70.30	72.70	-150.70
200%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	-74.55	34.00	-139.03	34.00	64.78	95.94	3	72.70	68.10	-176.70	-	-48.50	28.50	-48.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	13 y 15	-74.55	34.00	-139.03	34.00	64.78	95.94	-	-48.50	28.50	-48.50	3	72.70	68.10	-176.70
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	-70.90	36.71	-130.82	36.69	64.78	95.94	4	72.80	69.50	-171.30	-	-44.50	32.40	-44.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	14 y 16	-70.90	36.71	-130.82	36.69	64.78	95.94	-	-44.50	32.40	44.50	4	72.80	69.50	-171.30
220%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	-74.55	34.00	-139.03	34.00	71.43	105.66	3	79.00	72.10	-179.40	-	-48.50	28.40	-48.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	13 y 15	-74.55	34.00	-139.03	34.00	71.43	105.66	-	-48.50	28.40	-48.50	3	79.00	72.10	-179.40
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	-70.90	36.71	-130.82	36.69	71.43	105.66	4	79.10	73.80	-173.00	-	-44.50	32.40	-44.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	14 y 16	-70.90	36.71	-130.82	36.69	71.43	105.66	-	-44.50	32.40	-44.50	4	79.10	73.80	-173.00
240%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	-74.55	34.00	-139.03	34.00	104.96	121.91	4	114.50	93.80	-199.10	-	-48.50	28.40	-48.50
	6.U: 1.2D-1/RSY+1L / 2.U: 1.2D+16L	13 y 15	-74.55	34.00	-139.03	34.00	104.96	121.91	-	-48.50	28.40	-48.50	4	114.40	93.80	-199.10
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	-70.90	36.71	-130.82	36.69	79.90	121.91	5	89.50	78.50	-185.20	-	-44.50	32.40	-44.50

%ρ	LOAD COMBO	ELEMENTOS	MOMENTOS [kN.m]													
			MODELO + R		MODELO + SINR		MOMENTO-CURVATURA (My)		PUSHOVER							
									sismo DIR X (PUSHX)				sismo DIR Y (PUSHY)			
			EXTREMO	CENTRO	EXTREMO	CENTRO	EXTREMO	CENTRO	PASO	EXTREMO IZ	CENTRO	EXTREMO D	PASO	EXTREMO IZ	CENTRO	EXTREMO D
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	79.90	121.91	-	-44.50	32.40	-44.50	5	89.50	78.50	-185.20
280%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	-74.55	34.00	-139.03	34.00	100.82	138.88	4	108.60	84.80	-217.50	-	-48.50	28.40	-48.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	100.82	138.88	-	-48.50	28.40	-48.50	4	108.60	84.80	-217.50
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	-70.90	36.71	-130.82	36.69	100.82	138.88	5	108.40	87.50	-206.00	-	-44.50	32.40	-44.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	100.82	138.88	-	-44.50	32.40	-44.50	5	108.40	87.50	-206.00
300%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	-74.55	34.00	-139.03	34.00	104.69	138.78	4	114.80	88.80	-220.20	-	-48.50	28.40	-48.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	-74.55	34.00	-139.03	34.00	104.69	138.78	-	-48.50	28.50	-48.50	4	114.80	88.80	-220.20
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	-70.90	36.71	-130.82	36.69	100.82	138.78	5	114.50	93.40	-200.60	-	-44.50	32.40	-44.50
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	14 y 16	-70.90	36.71	-130.82	36.69	100.82	138.78	-	-44.50	32.40	-44.50	5	114.50	93.40	-200.60

D-3. Relación de momentos de fluencia por modelo

Modelo	LOAD COMBO	ELEMENTOS		RELACIÓN DE MOMENTOS				
				M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
				M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
MB2N	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	1	3 y 9	2.0	11.3	0.8		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	2	13 y 15	2.0			11.4	0.8
	5. U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	3	6 y 12	1.9	4.6	0.8		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	4	14 y 16	1.9			4.6	0.8
MC4N	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	1	3 9	1.6	3.8	0.8		
	6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	2	13 15	1.6			3.8	0.8
	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	3	6 12	1.7	5.1	0.8		

Modelo	LOAD COMBO	ELEMENTOS		RELACIÓN DE MOMENTOS				
				M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
				M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
	6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	4	14 16	1.7			5.1	0.8
	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	5	31 32	1.6	4.2	0.7		
	6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	6	33 34	1.6			4.2	0.7
	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	7	35 36	1.9	59.3	0.8		
	6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	8	37 38	1.9			55.1	0.8
MD6N	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	1	3 Y 9	1.7	1.6	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	2	13 15	1.7			1.6	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3	6 12	1.8	1.7	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	4	14 16	1.8			1.7	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	5	31 32	1.7	1.6	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	6	33 34	1.7			1.6	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	7	35 36	1.5	1.9	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	8	37 38	1.5			1.9	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	9	49 50	1.6	2.6	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	10	51 52	1.6			2.6	0.8
	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	11	53 54	1.1	1.4	0.5		
	6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	12	55 56	1.1			1.4	0.5
ME8N	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	1	3 Y 9	1.6	1.4	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	2	13 15	1.6			1.4	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3	6 12	1.3	1.2	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	4	14 16	1.3			1.2	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	5	31 32	1.3	1.2	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	6	33 34	1.3			1.2	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	7	35 36	1.3	1.1	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	8	37 38	1.3			1.1	0.7

Modelo	LOAD COMBO	ELEMENTOS		RELACIÓN DE MOMENTOS				
				M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
				M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
MF12N	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	9	49 50	1.5	1.4	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	10	51 52	1.5			1.4	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	11	53 54	1.5	1.6	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	12	55 56	1.5			1.6	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	13	67 68	1.6	1.8	0.7		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	14	69 70	1.6			1.8	0.7
	5: 1.2D-1/RSX+1L/2: 1.2D+1.6L	15	71 72	1.3	1.4	0.6		
	6: 1.2D-1/RSY+1L/2: 1.2D+1.6L	16	73 74	1.3			8.5	0.9
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	1	3 9	0.9	1.1	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	2	13 15	0.9			1.1	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3	6 12	1.1	1.0	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	4	14 16	1.1			1.0	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	5	31 32	1.1	1.0	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	6	33 34	1.1			1.0	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	7	35 36	1.1	1.0	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	8	37 38	1.1			1.0	0.8
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	9	49 50	1.0	1.0	0.8			
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	10	51 52	1.0			1.0	0.8	
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	11	53 54	0.9	1.0	0.8			
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	12	55 56	0.9			1.0	0.8	
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	13	67 68	0.9	1.1	0.8			
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	14	69 70	0.9			1.1	0.8	
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	15	73 74	0.8	1.3	0.7			
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	16	71 72	0.8			1.3	0.7	
5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	17	93 94	0.9	1.2	0.6			

Modelo	LOAD COMBO	ELEMENTOS		RELACIÓN DE MOMENTOS				
				M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
				M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	18	95 96	0.9			1.2	0.6
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	19	97 98	1.1	1.4	0.6		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	20	99 100	1.1			1.3	0.6
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	21	101 102	1.1	1.7	0.5		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	22	103 104	1.1			1.4	0.5
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	23	105 106	0.4	5.0	0.6		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	24	107 108	0.4			2.2	0.6
MG14N	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	1	3 9	0.9	1.2	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	2	13 15	0.9			1.2	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3	6 12	1.1	1.1	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	4	14 16	1.1			1.1	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	5	31 32	1.0	1.1	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	6	33 34	1.0			1.1	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	7	35 36	1.1	1.1	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	8	37 38	1.1			1.1	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	9	49 50	1.0	1.1	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	10	51 52	1.0			1.1	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	11	53 54	1.0	1.1	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	12	55 56	1.0			1.1	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	13	67 68	0.9	1.1	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	14	69 70	0.9			1.1	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	15	73 74	0.9	1.2	0.7		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	16	71 72	0.9			1.2	0.7
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	17	93 94	0.8	1.4	0.8		
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	18	95 96	0.8			1.4	0.8	

Modelo	LOAD COMBO	ELEMENTOS		RELACIÓN DE MOMENTOS				
				M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
				M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	19	97 98	0.9	1.2	0.7		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	20	99 100	0.9			1.2	0.7
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	21	101 102	1.2	1.1	0.6		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	22	103 104	0.7			0.7	0.4
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	23	105 106	1.1	1.5	0.5		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	24	107 108	1.1			1.5	0.6
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	25	121 122	1.1	1.7	0.5		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	26	123 124	1.1			1.7	0.5
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	27	125 126	0.8	3.1	0.5		
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	28	127 128	0.8			3.1	0.5	
MH16N	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	1	3 9	0.9	1.2	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	2	13 15	0.9			1.2	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3	6 12	1.0	1.1	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	4	14 16	1.0			1.1	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	5	31 32	1.0	1.1	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	6	33 34	1.0			1.1	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	7	35 36	1.0	1.0	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	8	37 38	1.0			1.0	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	9	49 50	1.1	1.0	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	10	51 52	1.1			1.0	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	11	53 54	1.0	1.0	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	12	55 56	1.0			1.0	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	13	67 68	1.0	1.0	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	14	69 70	1.0			1.0	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	15	73 74	0.9	1.0	0.8		

Modelo	LOAD COMBO	ELEMENTOS		RELACIÓN DE MOMENTOS				
				M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
				M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	16	71 72	0.9			1.0	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	17	93 94	0.9	1.1	0.7		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	18	95 96	0.9			1.1	0.7
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	19	97 98	0.9	1.3	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	20	99 100	0.9			1.3	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	21	101 102	0.9	1.4	0.7		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	22	103 104	0.9			1.4	0.7
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	23	105 106	0.9	1.4	0.7		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	24	107 108	0.9			1.4	0.7
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	25	121 122	1.0	1.3	0.6		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	26	123 124	1.0			1.3	0.6
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	27	125 126	1.0	1.5	0.6		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	28	127 128	1.0			1.5	0.6
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	29	139 140	1.0	3.9	0.6		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	30	141 142	1.0			3.9	0.6
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	31	143 144	0.8				
6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	32	145 146	0.8					
MI20N	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	1	3 9	0.9	1.4	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	2	13 15	0.9			1.4	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	3	6 12	1.0	1.3	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	4	14 16	1.0			1.3	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	5	31 32	1.1	1.0	0.7		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	6	33 34	1.1			1.0	0.7
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	7	35 36	1.1	1.2	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	8	37 38	1.1			1.2	0.8

Modelo	LOAD COMBO	ELEMENTOS		RELACIÓN DE MOMENTOS				
				M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
				M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	9	49 50	1.0	1.2	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	10	51 52	1.0			1.2	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	11	53 54	1.1	1.2	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	12	55 56	1.1			1.2	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	13	67 68	1.1	1.2	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	14	69 70	1.1			1.2	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	15	73 74	1.0	1.2	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	16	71 72	1.0			1.2	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	17	93 94	1.0	0.9	0.6		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	18	95 96	1.0			0.9	0.6
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	19	97 98	0.9	1.2	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	20	99 100	0.9			1.2	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	21	101 102	0.9	1.2	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	22	103 104	0.9			1.2	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	23	105 106	0.9	1.3	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	24	107 108	0.9			1.3	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	25	121 122	0.9	1.4	0.8		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	26	123 124	0.9			1.4	0.8
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	27	125 126	0.9	1.3	0.7		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	28	127 128	0.9			1.3	0.7
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	29	139 140	0.9	1.4	0.7		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	30	141 142	0.9			1.4	0.7
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	31	143 144	0.9	1.3	0.6		
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	32	145 146	0.9			1.3	0.6
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	33	165 166	1.0				

Modelo	LOAD COMBO	ELEMENTOS		RELACIÓN DE MOMENTOS				
				M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
				M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	34	167 168	1.0				
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	35	169 170	0.9				
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	36	171 172	0.9				
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	37	173 174	1.0				
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	38	175 175	1.0				
	5: 1.2D-1/RSX+1L/3: 1.2D+1/RSX+1L	39	177 178	0.4				
	6: 1.2D-1/RSY+1L/4: 1.2D+1/RSY+1L	40	179 180	1.0				

D-4. Relación de momentos de fluencia para variación de cuantías

%ρ	LOAD COMBO	ELEMENTOS		RELACIÓN DE MOMENTOS				
				M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
				M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
20%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9		3.4	5.0	2.9	3.0	3.0
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15		3.4	3.0	3.0	5.0	2.9
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12		3.2	5.7	2.8	3.0	3.0
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	14 y 16		3.2	3.0	3.0	5.7	2.8
30%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9		3.4	3.6	2.0	2.1	2.1
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15		3.4	2.1	2.1	3.6	2.0
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12		3.2	3.8	1.9	1.9	1.9

%p	LOAD COMBO	ELEMENTOS	RELACIÓN DE MOMENTOS				
			M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
			M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
	6. U: 1.2D-1/RSY+1L / 2. U:1.2D+1.6L	14 y 16	3.2	1.9	1.9	3.8	1.9
40%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	3.4	3.2	1.7	1.7	1.7
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	3.4	1.7	1.7	3.2	1.7
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	3.2	3.4	1.6	1.7	1.7
	6. U: 1.2D-1/RSY+1L / 2. U:1.2D+1.6L	14 y 16	3.2	1.7	1.7	3.4	1.6
50%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	3.4	2.9	1.3		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	3.4			2.9	1.3
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	3.2	3.4	1.2		
	6. U: 1.2D-1/RSY+1L / 2. U:1.2D+1.6L	14 y 16	3.2			3.4	1.2
60%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	2.3	3.2	1.2		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	2.3			3.2	1.2
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	2.2	3.4	1.2		
	6. U: 1.2D-1/RSY+1L / 2. U:1.2D+1.6L	14 y 16	2.2			3.4	1.2
70%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	2.3	4.5	1.0		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	2.3			4.5	1.0
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	2.2	4.0	1.0		
	6. U: 1.2D-1/RSY+1L / 2. U:1.2D+1.6L	14 y 16	2.2			4.0	1.0
80%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	2.3	5.0	0.9		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	2.3			5.0	0.9
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	2.2	4.6	0.9		
	6. U: 1.2D-1/RSY+1L / 2. U:1.2D+1.6L	14 y 16	2.2			4.6	0.9
90%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	2.0	8.1	0.8		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	2.0			8.1	0.8
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	1.9	5.1	0.8		
	6. U: 1.2D-1/RSY+1L / 2. U:1.2D+1.6L	14 y 16	1.9			5.1	0.8

%p	LOAD COMBO	ELEMENTOS	RELACIÓN DE MOMENTOS				
			M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
			M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
100%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	2.0	11.3	0.8		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	2.0			11.4	0.8
	5. U: 1.2D-1/RSX+1L / 2. U: 1.2D+1.6L	6 y 12	1.9	4.6	0.8		
	6. U: 1.2D-1/RSY+1L /2. U:1.2D+1.6L	14 y 16	1.9			4.6	0.8
120%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	1.4	2.6	0.6		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	1.4			2.6	0.6
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	1.4	3.6	0.7		
	6. U: 1.2D-1/RSY+1L /2. U:1.2D+1.6L	14 y 16	1.4			4.5	0.7
140%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	1.4	2.0	0.6		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	1.4			2.0	0.6
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	1.3	1.4	0.6		
	6. U: 1.2D-1/RSY+1L /2. U:1.2D+1.6L	14 y 16	1.3			1.4	0.6
160%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	0.9	1.7	0.5		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	0.9			1.7	0.5
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	1.2	1.2	0.5		
	6. U: 1.2D-1/RSY+1L /2. U:1.2D+1.6L	14 y 16	1.2			1.2	0.5
180%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	1.0	0.9	0.4		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	1.0			0.9	0.4
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	1.0	0.9	0.4		
	6. U: 1.2D-1/RSY+1L /2. U:1.2D+1.6L	14 y 16	1.0			0.9	0.4
200%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	1.0	0.9	0.4		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	1.0			0.9	0.4
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	1.0	0.9	0.4		
	6. U: 1.2D-1/RSY+1L /2. U:1.2D+1.6L	14 y 16	1.0			0.9	0.4
220%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	0.9	0.8	0.4		

%ρ	LOAD COMBO	ELEMENTOS	RELACIÓN DE MOMENTOS				
			M-C	PushXEiz	PushXEd	PushYEiz	PushYEd
			M+R/My	M+R/MpE	M+R/MpE	M+R/MpE	M+R/MpE
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	0.9			0.8	0.4
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	0.9	0.8	0.4		
	6. U: 1.2D-1/RSY+1L / 2. U:1.2D+1.6L	14 y 16	0.9			0.8	0.4
240%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	0.6	0.6	0.3		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	0.6			0.6	0.3
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	0.8	0.7	0.3		
	6. U: 1.2D-1/RSY+1L / 2. U:1.2D+1.6L	14 y 16	0.8			0.7	0.3
280%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	0.7	0.6	0.3		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	0.7			0.6	0.3
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	0.6	0.6	0.3		
	6. U: 1.2D-1/RSY+1L / 2. U:1.2D+1.6L	14 y 16	0.6			0.6	0.3
300%	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	3 y 9	0.6	0.6	0.3		
	6. U: 1.2D-1/RSY+1L / 2. U: 1.2D+1.6L	13 y 15	0.6			0.6	0.3
	5.U: 1.2D-1/RSX+1L / 2.U: 1.2D+16L	6 y 12	0.6	0.6	0.3		
	6. U: 1.2D-1/RSY+1L / 2. U:1.2D+1.6L	14 y 16	0.6			0.6	0.3