



Instituto Tecnológico y de Estudios  
Superiores de Monterrey.

“ Desarrollo de Tablas de las Características  
Estructurales de Perfiles LM”

Perfiles y Herrajes L.M. S.A. de C.V.

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## Desarrollo de tablas de las características estructurales de Perfiles LM.

Estas características se determinaron tomando como base las dimensiones nominales con que se fabrican los perfiles LM, se determinaron y tabularon de acuerdo con las especificaciones del Manual de Construcción en Acero editado por el Instituto Mexicano de la Construcción en Acero A.C. del 2002 y LRFD Cold-Formed Steel Design Manual de la American Iron And Steel Institute.

Las características y dimensiones indicadas en cada una de las tablas son las siguientes:

### Dimensiones

- H Altura del alma.
- B Ancho del patín
- d Longitud del atiesador.
- R Radio de curvatura interior en las esquinas.
- t Espesor de la lámina correspondiente al calibre indicado.
- A Área de la sección transversal.

### Propiedades de las secciones

- Ae Área efectiva.
- Ix Momento de inercia de área con respecto al eje x-x.
- Iy Momento de inercia de área con respecto al eje y-y.
- Iyc Momento de inercia del área en compresión con respecto al eje y-y ( $I_{yc}=I_y/2$ )
- Ixy Producto de inercia de área para Z.
- Sx Módulo de sección con respecto al eje x-x.
- Sxe Módulo de sección efectivo con respecto al eje x-x.
- Sy Módulo de sección con respecto al eje y-y.
- rx Radio de giro con respecto al eje x-x.
- ry Radio de giro con respecto al eje y-y.
- rm Radio mínimo de giro para Z.
- Xc Distancia del centroide al lado exterior del alma.
- M Distancia del centro de corte a la línea media del alma.
- Lsc Longitud libre entre soportes laterales en perfiles C.
- Lsz Longitud libre entre soportes laterales en perfiles Z.
- J Constante de torsión (St. Venant)
- Cw Constante de alabeo.

Características mecánicas mínimas que debe de tener la lámina empleada en la fabricación de los perfiles formados en frío de calibre ligero:

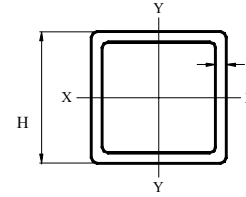
### Pruebas de tensión:

	A.R	C.C
Resistencia a la tensión Kg/cm <sup>2</sup>	5,000	3,400
Resistencia a la cedencia Kg/cm <sup>2</sup>	3,500	2,100
% de elongación en 2"	22	28

# H

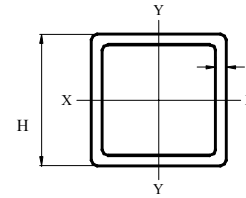
## TUBO CUADRADO PHERT

### DIMENSIONES Y PROPIEDADES



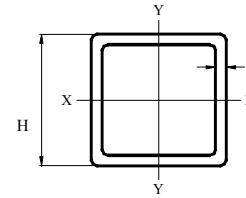
PERFIL	PERFILES ESTRUCTURALES RECTANGULARES															PERFIL
	DIMENSIONES Y PESOS TEORICOS								PROPIEDADES ESTRUCTURALES							
	DIMENSIONES EXTERIORES		CAL	COLOR	ESPESOR		LONG	PESO	AREA	lx	Sx	rx	ly	Sy	ry	
	pulgadas	milimetros			pigs	mm	M	Kg/m		cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	
H0505	1/2 x 1/2	12.7 x 12.7	20		0.036	0.912	6	0.34	0.43	0.10	0.16	0.48	0.10	0.16	0.48	H0505
H0505	1/2 x 1/2	12.7 x 12.7	18		0.048	1.214	6	0.44	0.56	0.12	0.20	0.47	0.12	0.20	0.47	H0505
H0505	1/2 x 1/2	12.7 x 12.7	16		0.060	1.519	6	0.53	0.68	0.14	0.23	0.46	0.14	0.23	0.46	H0505
H0606	5/8 x 5/8	15.9 x 15.9	20		0.036	0.912	6	0.43	0.55	0.20	0.26	0.61	0.20	0.26	0.61	H0606
H0606	5/8 x 5/8	15.9 x 15.9	18		0.048	1.214	6	0.56	0.71	0.26	0.32	0.60	0.26	0.32	0.60	H0606
H0606	5/8 x 5/8	15.9 x 15.9	16		0.060	1.519	6	0.69	0.87	0.30	0.38	0.59	0.30	0.38	0.59	H0606
H0707	3/4 x 3/4	19.0 x 19.0	20		0.036	0.912	6	0.52	0.66	0.36	0.38	0.74	0.36	0.38	0.74	H0707
H0707	3/4 x 3/4	19.0 x 19.0	18		0.048	1.214	6	0.68	0.87	0.46	0.48	0.73	0.46	0.48	0.73	H0707
H0707	3/4 x 3/4	19.0 x 19.0	16		0.060	1.519	6	0.84	1.07	0.55	0.58	0.72	0.55	0.58	0.72	H0707
H0707	3/4 x 3/4	19.0 x 19.0	14		0.075	1.897	6	1.02	1.30	0.65	0.68	0.70	0.65	0.68	0.70	H0707
H0808	13/16 x 13/16	20.6 x 20.6	20		0.036	0.912	6	0.57	0.72	0.47	0.45	0.81	0.47	0.45	0.81	H0808
H0808	13/16 x 13/16	20.6 x 20.6	18		0.048	1.214	6	0.74	0.94	0.60	0.58	0.79	0.60	0.58	0.79	H0808
H0808	13/16 x 13/16	20.6 x 20.6	16		0.060	1.519	6	0.91	1.16	0.71	0.69	0.78	0.71	0.69	0.78	H0808
H0909	7/8 x 7/8	22.2 x 22.2	20		0.036	0.912	6	0.61	0.78	0.59	0.53	0.87	0.59	0.53	0.87	H0909
H0909	7/8 x 7/8	22.2 x 22.2	18		0.048	1.214	6	0.80	1.02	0.75	0.68	0.86	0.75	0.68	0.86	H0909
H0909	7/8 x 7/8	22.2 x 22.2	16		0.060	1.519	6	0.99	1.26	0.90	0.81	0.85	0.90	0.81	0.85	H0909
H1010	1 x 1	25.4 x 25.4	20		0.036	0.912	6	0.70	0.89	0.89	0.70	1.00	0.89	0.70	1.00	H1010
H1010	1 x 1	25.4 x 25.4	18		0.048	1.214	6	0.92	1.17	1.15	0.90	0.99	1.15	0.90	0.99	H1010
H1010	1 x 1	25.4 x 25.4	16		0.060	1.519	6	1.14	1.45	1.38	1.09	0.98	1.38	1.09	0.98	H1010
H1010	1 x 1	25.4 x 25.4	14	AZUL	0.075	1.897	6	1.40	1.78	1.65	1.30	0.96	1.65	1.30	0.96	H1010
H1010	1 x 1	25.4 x 25.4	13	VERDE	0.090	2.278	6	1.66	2.11	1.90	1.49	0.95	1.90	1.49	0.95	H1010
H1010	1 x 1	25.4 x 25.4	12		0.105	2.657	6	1.90	2.42	2.11	1.66	0.93	2.11	1.66	0.93	H1010
H1212	1 1/4 x 1 1/4	31.8 x 31.8	20		0.036	0.912	6	0.89	1.12	1.78	1.12	1.26	1.78	1.12	1.26	H1212
H1212	1 1/4 x 1 1/4	31.8 x 31.8	18		0.048	1.214	6	1.17	1.48	2.31	1.45	1.25	2.31	1.45	1.25	H1212
H1212	1 1/4 x 1 1/4	31.8 x 31.8	16		0.060	1.519	6	1.45	1.84	2.80	1.77	1.24	2.80	1.77	1.24	H1212
H1212	1 1/4 x 1 1/4	31.8 x 31.8	14	AZUL	0.075	1.897	6	1.78	2.27	3.38	2.13	1.22	3.38	2.13	1.22	H1212
H1212	1 1/4 x 1 1/4	31.8 x 31.8	13		0.090	2.278	6	2.11	2.69	3.91	2.46	1.21	3.91	2.46	1.21	H1212
H1212	1 1/4 x 1 1/4	31.8 x 31.8	12	BLANCO	0.105	2.657	6	2.43	3.09	4.40	2.77	1.19	4.40	2.77	1.19	H1212
H1212	1 1/4 x 1 1/4	31.8 x 31.8	11		0.120	3.038	6	2.75	3.49	4.85	3.05	1.18	4.85	3.05	1.18	H1212

# H TUBO CUADRADO PHERT DIMENSIONES Y PROPIEDADES



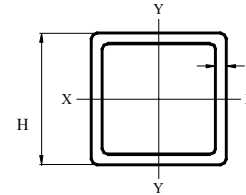
PERFIL	PERFILES ESTRUCTURALES RECTANGULARES															PERFIL
	DIMENSIONES Y PESOS TEORICOS								PROPIEDADES ESTRUCTURALES							
	DIMENSIONES EXTERIORES		CAL	COLOR	ESPESOR		LONG	PESO	AREA	Ix	Sx	rx	Iy	Sy	ry	
	pulgadas	milímetros			pigs	mm	M	Kg/m	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	
H1515	1 1/2 X 1 1/2	38.1 x 38.1	20		0.036	0.912	6	1.07	1.36	3.13	1.64	1.52	3.13	1.64	1.52	H1515
H1515	1 1/2 X 1 1/2	38.1 x 38.1	18		0.048	1.214	6	1.41	1.79	4.07	2.13	1.51	4.07	2.13	1.51	H1515
H1515	1 1/2 X 1 1/2	38.1 x 38.1	16		0.060	1.519	6	1.75	2.22	4.97	2.61	1.49	4.97	2.61	1.49	H1515
H1515	1 1/2 X 1 1/2	38.1 x 38.1	14	AZUL	0.075	1.897	6	2.16	2.75	6.02	3.16	1.48	6.02	3.16	1.48	H1515
H1515	1 1/2 X 1 1/2	38.1 x 38.1	13		0.090	2.278	6	2.57	3.26	7.01	3.68	1.47	7.01	3.68	1.47	H1515
H1515	1 1/2 X 1 1/2	38.1 x 38.1	12	BLANCO	0.105	2.657	6	2.96	3.77	7.93	4.16	1.45	7.93	4.16	1.45	H1515
H1515	1 1/2 X 1 1/2	38.1 x 38.1	11	VERDE	0.120	3.038	6	3.35	4.26	8.80	4.62	1.44	8.80	4.62	1.44	H1515
H1515	1 1/2 X 1 1/2	38.1 x 38.1	10	ROJO	0.135	3.416	6	3.73	4.74	9.59	5.04	1.42	9.59	5.04	1.42	H1515
H1717	1 3/4 X 1 3/4	44.5 x 44.5	20		0.036	0.912	6	1.25	1.59	5.02	2.26	1.78	5.02	2.26	1.78	H1717
H1717	1 3/4 X 1 3/4	44.5 x 44.5	18		0.048	1.214	6	1.65	2.10	6.55	2.95	1.77	6.55	2.95	1.77	H1717
H1717	1 3/4 X 1 3/4	44.5 x 44.5	16		0.060	1.519	6	2.05	2.61	8.02	3.61	1.75	8.02	3.61	1.75	H1717
H1717	1 3/4 X 1 3/4	44.5 x 44.5	14		0.075	1.897	6	2.54	3.23	9.77	4.39	1.74	9.77	4.39	1.74	H1717
H1717	1 3/4 X 1 3/4	44.5 x 44.5	13		0.090	2.278	6	3.02	3.84	11.43	5.14	1.72	11.43	5.14	1.72	H1717
H1717	1 3/4 X 1 3/4	44.5 x 44.5	12		0.105	2.657	6	3.50	4.44	12.98	5.84	1.71	12.98	5.84	1.71	H1717
H1717	1 3/4 X 1 3/4	44.5 x 44.5	11		0.120	3.038	6	3.96	5.03	14.46	6.51	1.70	14.46	6.51	1.70	H1717
H2020	2 X 2	50.8 x 50.8	18		0.048	1.214	6	1.90	2.41	9.87	3.89	2.02	9.87	3.89	2.02	H2020
H2020	2 X 2	50.8 x 50.8	16		0.060	1.519	6	2.36	2.99	12.13	4.78	2.01	12.13	4.78	2.01	H2020
H2020	2 X 2	50.8 x 50.8	14	AZUL	0.075	1.897	6	2.92	3.71	14.82	5.83	2.00	14.82	5.83	2.00	H2020
H2020	2 X 2	50.8 x 50.8	13		0.090	2.278	6	3.48	4.42	17.39	6.85	1.98	17.39	6.85	1.98	H2020
H2020	2 X 2	50.8 x 50.8	12	BLANCO	0.105	2.657	6	4.03	5.12	19.82	7.80	1.97	19.82	7.80	1.97	H2020
H2020	2 X 2	50.8 x 50.8	11	VERDE	0.120	3.038	6	4.57	5.80	22.16	8.72	1.95	22.16	8.72	1.95	H2020
H2020	2 X 2	50.8 x 50.8	10	ROJO	0.135	3.416	6	5.10	6.48	24.36	9.59	1.94	24.36	9.59	1.94	H2020
H2020	2 X 2	50.8 x 50.8	8		0.164	4.176	6	6.13	7.79	28.44	11.20	1.91	28.44	11.20	1.91	H2020
H2020	2 X 2	50.8 x 50.8	7		0.179	4.554	6	6.63	8.42	30.32	11.94	1.90	30.32	11.94	1.90	H2020
H2525	2 1/2 X 2 1/2	63.5 x 63.5	14	AZUL	0.075	1.897	6	3.68	4.68	29.60	9.32	2.52	29.60	9.32	2.52	H2525
H2525	2 1/2 X 2 1/2	63.5 x 63.5	13		0.090	2.278	6	4.39	5.58	34.90	10.99	2.50	34.90	10.99	2.50	H2525
H2525	2 1/2 X 2 1/2	63.5 x 63.5	12		0.105	2.657	6	5.09	6.47	39.97	12.59	2.49	39.97	12.59	2.49	H2525
H2525	2 1/2 X 2 1/2	63.5 x 63.5	11	BLANCO	0.120	3.038	6	5.78	7.35	44.88	14.13	2.47	44.88	14.13	2.47	H2525
H2525	2 1/2 X 2 1/2	63.5 x 63.5	10	VERDE	0.135	3.416	6	6.46	8.21	49.56	15.61	2.46	49.56	15.61	2.46	H2525
H2525	2 1/2 X 2 1/2	63.5 x 63.5	8		0.164	4.176	6	7.80	9.91	58.41	18.40	2.43	58.41	18.40	2.43	H2525
H2525	2 1/2 X 2 1/2	63.5 x 63.5	7	ROJO	0.179	4.554	6	8.45	10.74	62.56	19.70	2.41	62.56	19.70	2.41	H2525
H2525	2 1/2 X 2 1/2	63.5 x 63.5	4		0.224	5.695	6	10.36	13.17	74.04	23.32	2.37	74.04	23.32	2.37	H2525
H2525	2 1/2 X 2 1/2	63.5 x 63.5	1/4		0.250	6.350	6	11.42	14.52	79.99	25.20	2.35	79.99	25.20	2.35	H2525

# H TUBO CUADRADO PHERT DIMENSIONES Y PROPIEDADES



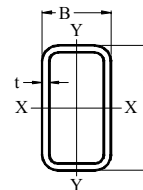
PERFIL	PERFILES ESTRUCTURALES RECTANGULARES															PERFIL
	DIMENSIONES Y PESOS TEORICOS								PROPIEDADES ESTRUCTURALES							
	DIMENSIONES EXTERIORES		CAL	COLOR	ESPESOR		LONG	PESO	AREA	Ix	Sx	rx	Iy	Sy	ry	
	pulgadas	milímetros			pigs	mm	M	Kg/m	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	
H3030	3 x 3	76.2 x 76.2	14	AZUL	0.075	1.897	6	4.44	5.64	51.92	13.63	3.03	51.92	13.63	3.03	H3030
H3030	3 x 3	76.2 x 76.2	13		0.090	2.278	6	5.30	6.74	61.41	16.12	3.02	61.41	16.12	3.02	H3030
H3030	3 x 3	76.2 x 76.2	12		0.105	2.657	6	6.15	7.82	70.55	18.52	3.00	70.55	18.52	3.00	H3030
H3030	3 x 3	76.2 x 76.2	11	BLANCO	0.120	3.038	6	7.00	8.89	79.45	20.85	2.99	79.45	20.85	2.99	H3030
H3030	3 x 3	76.2 x 76.2	10	VERDE	0.135	3.416	6	7.83	9.95	88.01	23.10	2.97	88.01	23.10	2.97	H3030
H3030	3 x 3	76.2 x 76.2	8		0.164	4.176	6	9.47	12.03	104.36	27.39	2.95	104.36	27.39	2.95	H3030
H3030	3 x 3	76.2 x 76.2	7	ROJO	0.179	4.554	6	10.27	13.05	112.11	29.43	2.93	112.11	29.43	2.93	H3030
H3030	3 x 3	76.2 x 76.2	4		0.224	5.695	6	12.64	16.06	133.93	35.15	2.89	133.93	35.15	2.89	H3030
H3030	3 x 3	76.2 x 76.2	1/4		0.250	6.350	6	13.96	17.74	145.46	38.18	2.86	145.46	38.18	2.86	H3030
H3535	3 1/2 x 3 1/2	88.9 x 88.9	14	AZUL	0.075	1.897	6	5.20	6.60	83.34	18.75	3.55	83.34	18.75	3.55	H3535
H3535	3 1/2 x 3 1/2	88.9 x 88.9	13		0.090	2.278	6	6.21	7.89	98.79	22.23	3.54	98.79	22.23	3.54	H3535
H3535	3 1/2 x 3 1/2	88.9 x 88.9	12		0.105	2.657	6	7.21	9.17	113.73	25.59	3.52	113.73	25.59	3.52	H3535
H3535	3 1/2 x 3 1/2	88.9 x 88.9	11	BLANCO	0.120	3.038	6	8.21	10.43	128.36	28.88	3.51	128.36	28.88	3.51	H3535
H3535	3 1/2 x 3 1/2	88.9 x 88.9	10	VERDE	0.135	3.416	6	9.19	11.68	142.50	32.06	3.49	142.50	32.06	3.49	H3535
H3535	3 1/2 x 3 1/2	88.9 x 88.9	8		0.164	4.176	6	11.14	14.15	169.72	38.18	3.46	169.72	38.18	3.46	H3535
H3535	3 1/2 x 3 1/2	88.9 x 88.9	7	ROJO	0.179	4.554	6	12.09	15.37	182.72	41.11	3.45	182.72	41.11	3.45	H3535
H3535	3 1/2 x 3 1/2	88.9 x 88.9	4		0.224	5.695	6	14.92	18.95	219.72	49.43	3.40	219.72	49.43	3.40	H3535
H3535	3 1/2 x 3 1/2	88.9 x 88.9	1/4		0.250	6.350	6	16.50	20.97	239.55	53.89	3.38	239.55	53.89	3.38	H3535
H4040	4 x 4	101.6 x 101.6	14	AZUL	0.075	1.897	6	5.96	7.57	125.41	24.69	4.07	125.41	24.69	4.07	H4040
H4040	4 x 4	101.6 x 101.6	13		0.090	2.278	6	7.12	9.05	148.90	29.31	4.06	148.90	29.31	4.06	H4040
H4040	4 x 4	101.6 x 101.6	12		0.105	2.657	6	8.28	10.52	171.69	33.80	4.04	171.69	33.80	4.04	H4040
H4040	4 x 4	101.6 x 101.6	11	BLANCO	0.120	3.038	6	9.43	11.98	194.10	38.21	4.03	194.10	38.21	4.03	H4040
H4040	4 x 4	101.6 x 101.6	10	VERDE	0.135	3.416	6	10.56	13.42	215.83	42.49	4.01	215.83	42.49	4.01	H4040
H4040	4 x 4	101.6 x 101.6	8		0.164	4.176	6	12.81	16.27	257.89	50.77	3.98	257.89	50.77	3.98	H4040
H4040	4 x 4	101.6 x 101.6	7	ROJO	0.179	4.554	6	13.91	17.68	278.10	54.74	3.97	278.10	54.74	3.97	H4040
H4040	4 x 4	101.6 x 101.6	4		0.224	5.695	6	17.19	21.85	336.07	66.16	3.92	336.07	66.16	3.92	H4040
H4040	4 x 4	101.6 x 101.6	1/4		0.250	6.350	6	19.04	24.19	367.45	72.33	3.90	367.45	72.33	3.90	H4040

**H**  
**TUBO CUADRADO PHERT**  
**DIMENSIONES Y PROPIEDADES**



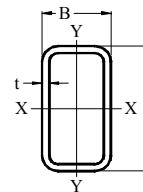
PERFIL	<b>PERFILES ESTRUCTURALES RECTANGULARES</b>															PERFIL
	DIMENSIONES Y PESOS TEORICOS								PROPIEDADES ESTRUCTURALES							
	DIMENSIONES EXTERIORES		CAL	COLOR	ESPESOR		LONG	PESO	AREA	Ix	Sx	rx	Iy	Sy	ry	
	pulgadas	milímetros			plgs	mm	M	Kg/m	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	
H4040	5 x 5	127 x 127	14	AZUL	0.075	1.897	6	7.47	9.49	247.72	39.01	5.11	247.72	39.01	5.11	H5050
H4040	5 x 5	127 x 127	13		0.090	2.278	6	8.95	11.37	294.78	46.42	5.09	294.78	46.42	5.09	H5050
H4040	5 x 5	127 x 127	12		0.105	2.657	6	10.40	13.21	340.67	53.65	5.08	340.67	53.65	5.08	H5050
H4040	5 x 5	127 x 127	11	BLANCO	0.120	3.038	6	11.85	15.06	386.01	60.79	5.06	386.01	60.79	5.06	H5050
H4040	5 x 5	127 x 127	10	VERDE	0.135	3.416	6	13.29	16.89	430.21	67.75	5.05	430.21	67.75	5.05	H5050
H4040	5 x 5	127 x 127	8		0.164	4.176	6	16.15	20.52	516.41	81.33	5.02	516.41	81.33	5.02	H5050
H4040	5 x 5	127 x 127	7	ROJO	0.179	4.554	6	17.55	22.31	558.15	87.90	5.00	558.15	87.90	5.00	H5050
H4040	5 x 5	127 x 127	4		0.224	5.695	6	21.75	27.63	679.16	107.0	4.96	679.16	107.0	4.96	H5050
H4040	5 x 5	127 x 127	1/4		0.250	6.350	6	24.12	30.65	745.53	117.4	4.93	745.53	117.4	4.93	H5050

# H TUBO RECTANGULAR PHERT DIMENSIONES Y PROPIEDADES



PERFIL	PERFILES ESTRUCTURALES RECTANGULARES															PERFIL
	DIMENSIONES Y PESOS TEORICOS								PROPIEDADES ESTRUCTURALES							
	DIMENSIONES EXTERIORES		CAL	COLOR	ESPESOR		LONG	PESO	AREA	Ix	Sx	rx	Iy	Sy	ry	
	pulgadas	milimetros			pigs	mm	M	Kg/m	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	
H0206	1/4 x 5/8	6.4 x 15.9	20		0.036	0.912	6	0.29	0.37	0.11	0.01	0.54	0.02	0.01	0.25	H0206
H0206	1/4 x 5/8	6.4 x 15.9	18		0.048	1.214	6	0.38	0.48	0.13	0.02	0.53	0.03	0.01	0.24	H0206
H0206	1/4 x 5/8	6.4 x 15.9	16		0.060	1.519	6	0.46	0.59	0.15	0.02	0.51	0.03	0.01	0.23	H0206
H0702	3/4 x 1/4	19.0 x 6.4	20		0.036	0.912	6	0.34	0.43	0.17	0.02	0.63	0.03	0.01	0.25	H0702
H0702	3/4 x 1/4	19.0 x 6.4	18		0.048	1.214	6	0.44	0.56	0.22	0.02	0.62	0.03	0.01	0.24	H0702
H0702	3/4 x 1/4	19.0 x 6.4	16		0.060	1.519	6	0.53	0.68	0.25	0.03	0.61	0.04	0.01	0.23	H0702
H0705	3/4 x 1/2	19.0 x 12.7	20		0.036	0.912	6	0.43	0.54	0.27	0.03	0.70	0.14	0.02	0.51	H0705
H0705	3/4 x 1/2	19.0 x 12.7	18		0.048	1.214	6	0.56	0.71	0.34	0.04	0.69	0.17	0.03	0.50	H0705
H0705	3/4 x 1/2	19.0 x 12.7	16		0.060	1.519	6	0.69	0.87	0.40	0.04	0.68	0.20	0.03	0.48	H0705
H1005	1 x 1/2	25.4 x 12.7	20		0.036	0.912	6	0.52	0.66	0.55	0.04	0.91	0.18	0.03	0.52	H1005
H1005	1 x 1/2	25.4 x 12.7	18		0.048	1.214	6	0.68	0.87	0.70	0.05	0.90	0.23	0.04	0.51	H1005
H1005	1 x 1/2	25.4 x 12.7	16		0.060	1.519	6	0.84	1.07	0.83	0.07	0.88	0.27	0.04	0.50	H1005
H1007	1 x 3/4	25.4 x 19.0	20		0.036	0.912	6	0.61	0.78	0.72	0.06	0.96	0.46	0.05	0.77	H1007
H1007	1 x 3/4	25.4 x 19.0	18		0.048	1.214	6	0.80	1.02	0.92	0.07	0.95	0.58	0.06	0.75	H1007
H1007	1 x 3/4	25.4 x 19.0	16		0.060	1.519	6	0.99	1.26	1.11	0.09	0.94	0.69	0.07	0.74	H1007
H1107	1 1/8 x 3/4	28.6 x 19.0	20		0.036	0.912	6	0.66	0.83	0.96	0.07	1.07	0.50	0.05	0.78	H1107
H1107	1 1/8 x 3/4	28.6 x 19.0	18		0.048	1.214	6	0.86	1.10	1.23	0.09	1.06	0.64	0.07	0.77	H1107
H1107	1 1/8 x 3/4	28.6 x 19.0	16		0.060	1.519	6	1.07	1.35	1.48	0.10	1.05	0.77	0.08	0.75	H1107
H0712	3/4 X 1 1/4	19.0 x 31.8	20		0.036	0.912	6	0.70	0.89	1.24	0.08	1.18	0.55	0.06	0.79	H0712
H0712	3/4 X 1 1/4	19.0 x 31.8	18		0.048	1.214	6	0.92	1.17	1.59	0.10	1.16	0.70	0.07	0.77	H0712
H0712	3/4 X 1 1/4	19.0 x 31.8	16		0.060	1.519	6	1.14	1.45	1.93	0.12	1.15	0.84	0.09	0.76	H0712
H1205	1 1/2 X 1/2	38.1 x 12.7	20		0.036	0.912	6	0.70	0.89	1.53	0.08	1.31	0.26	0.04	0.54	H1205
H1205	1 1/2 X 1/2	38.1 x 12.7	18		0.048	1.214	6	0.92	1.17	1.97	0.10	1.29	0.33	0.05	0.53	H1205
H1205	1 1/2 X 1/2	38.1 x 12.7	16		0.060	1.519	6	1.14	1.45	2.38	0.13	1.28	0.39	0.06	0.52	H1205
H1707	1 3/4 X 3/4	44.5 x 19.0	20		0.036	0.912	6	0.89	1.12	2.83	0.13	1.59	0.74	0.08	0.81	H1707
H1707	1 3/4 X 3/4	44.5 x 19.0	18		0.048	1.214	6	1.17	1.48	3.67	0.16	1.57	0.95	0.10	0.80	H1707
H1707	1 3/4 X 3/4	44.5 x 19.0	16		0.060	1.519	6	1.45	1.84	4.47	0.20	1.56	1.14	0.12	0.79	H1707
H2010	2 x 1	50.8 x 25.4	20		0.036	0.912	6	1.07	1.36	4.67	0.18	1.86	1.59	0.13	1.08	H2010
H2010	2 x 1	50.8 x 25.4	18		0.048	1.214	6	1.41	1.79	6.08	0.24	1.84	2.05	0.16	1.07	H2010
H2010	2 x 1	50.8 x 25.4	16		0.060	1.519	6	1.75	2.22	7.44	0.29	1.83	2.49	0.20	1.06	H2010
H2010	2 x 1	50.8 x 25.4	14	AZUL	0.075	1.897	6	2.16	2.75	9.05	0.36	1.81	2.99	0.24	1.04	H2010

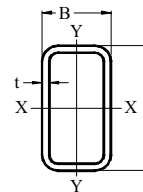
# H TUBO RECTANGULAR PHERT DIMENSIONES Y PROPIEDADES



PERFIL	PERFILES ESTRUCTURALES RECTANGULARES															PERFIL
	DIMENSIONES Y PESOS TEORICOS								PROPIEDADES ESTRUCTURALES							
	DIMENSIONES EXTERIORES		CAL	COLOR	ESPESOR		LONG	PESO	AREA	Ix	Sx	rx	ly	Sy	ry	
	pulgadas	milímetros			plgs	mm	M	Kg/m								
H2207	2 1/4 X 3/4	57.2 x 19.0	20		0.036	0.912	6	1.07	1.36	5.33	0.19	1.98	0.93	0.10	0.83	H2207
H2207	2 1/4 X 3/4	57.2 x 19.0	18		0.048	1.214	6	1.41	1.79	6.94	0.24	1.97	1.19	0.13	0.82	H2207
H2207	2 1/4 X 3/4	57.2 x 19.0	16		0.060	1.519	6	1.75	2.22	8.50	0.30	1.96	1.43	0.15	0.80	H2207
H2207	2 1/4 X 3/4	57.2 x 19.0	14		0.075	1.897	6	2.16	2.75	10.33	0.36	1.94	1.70	0.18	0.79	H2207
H2512	2 1/2 X 1 1/4	63.5 x 31.8	20		0.036	0.912	6	1.34	1.70	9.25	0.29	2.33	3.17	0.20	1.36	H2512
H2512	2 1/2 X 1 1/4	63.5 x 31.8	18		0.048	1.214	6	1.77	2.26	12.10	0.38	2.32	4.12	0.26	1.35	H2512
H2512	2 1/2 X 1 1/4	63.5 x 31.8	16		0.060	1.519	6	2.21	2.80	14.88	0.47	2.30	5.03	0.32	1.34	H2512
H2515	2 1/2 X 1 1/2	63.5 x 38.1	20		0.036	0.912	6	1.43	1.82	10.37	0.33	2.39	4.73	0.25	1.61	H2515
H2515	2 1/2 X 1 1/2	63.5 x 38.1	18		0.048	1.214	6	1.90	2.41	13.58	0.43	2.38	6.17	0.32	1.60	H2515
H2515	2 1/2 X 1 1/2	63.5 x 38.1	16		0.060	1.519	6	2.36	2.99	16.71	0.53	2.36	7.55	0.40	1.59	H2515
H2515	2 1/2 X 1 1/2	63.5 x 38.1	14		0.075	1.897	6	2.92	3.71	20.45	0.64	2.35	9.18	0.48	1.57	H2515
H3015	3 X 1 1/2	76.2 x 38.1	20		0.036	0.912	6	1.61	2.05	16.10	0.42	2.80	5.53	0.29	1.64	H3015
H3015	3 X 1 1/2	76.2 x 38.1	18		0.048	1.214	6	2.14	2.72	21.13	0.55	2.79	7.21	0.38	1.63	H3015
H3015	3 X 1 1/2	76.2 x 38.1	16		0.060	1.519	6	2.66	3.38	26.05	0.68	2.78	8.84	0.46	1.62	H3015
H3015	3 X 1 1/2	76.2 x 38.1	14		0.075	1.897	6	3.30	4.19	31.96	0.84	2.76	10.76	0.56	1.60	H3015
H3020	3 X 2	76.2 x 50.8	14	AZUL	0.075	1.897	6	3.68	4.68	38.62	1.01	2.87	20.58	0.81	2.10	H3020
H3020	3 X 2	76.2 x 50.8	13		0.090	2.278	6	4.39	5.58	45.60	1.20	2.86	24.21	0.95	2.08	H3020
H3020	3 X 2	76.2 x 50.8	12		0.105	2.657	6	5.09	6.47	52.29	1.37	2.84	27.65	1.09	2.07	H3020
H3020	3 X 2	76.2 x 50.8	11	BLANCO	0.120	3.038	6	5.78	7.35	58.78	1.54	2.83	30.97	1.22	2.05	H3020
H3020	3 X 2	76.2 x 50.8	10	VERDE	0.135	3.416	6	6.46	8.21	65.01	1.71	2.81	34.11	1.34	2.04	H3020
H3020	3 X 2	76.2 x 50.8	8		0.164	4.176	6	7.80	9.91	76.82	2.02	2.78	40.00	1.57	2.01	H3020
H3020	3 X 2	76.2 x 50.8	7	ROJO	0.179	4.554	6	8.45	10.74	82.38	2.16	2.77	42.73	1.68	1.99	H3020
H3020	3 X 2	76.2 x 50.8	4		0.224	5.695	6	10.36	13.17	97.90	2.57	2.73	50.19	1.98	1.95	H3020
H3020	3 X 2	76.2 x 50.8	1/4		0.250	6.350	6	11.42	14.52	106.01	2.78	2.70	53.98	2.13	1.93	H3020
H3525	3 1/2 X 2 1/2	88.9 x 63.5	14		0.075	1.897	6	4.44	5.64	65.10	1.46	3.40	38.75	1.22	2.62	H3525
H3525	3 1/2 X 2 1/2	88.9 x 63.5	13		0.090	2.278	6	5.30	6.74	77.07	1.73	3.38	45.75	1.44	2.61	H3525
H3525	3 1/2 X 2 1/2	88.9 x 63.5	12		0.105	2.657	6	6.15	7.82	88.62	1.99	3.37	52.47	1.65	2.59	H3525
H3525	3 1/2 X 2 1/2	88.9 x 63.5	11		0.120	3.038	6	7.00	8.89	99.90	2.25	3.35	58.99	1.86	2.58	H3525
H3525	3 1/2 X 2 1/2	88.9 x 63.5	10		0.135	3.416	6	7.83	9.95	110.78	2.49	3.34	65.24	2.05	2.56	H3525
H3525	3 1/2 X 2 1/2	88.9 x 63.5	8		0.164	4.176	6	9.47	12.03	131.62	2.96	3.31	77.10	2.43	2.53	H3525
H3525	3 1/2 X 2 1/2	88.9 x 63.5	7		0.179	4.554	6	10.27	13.05	141.53	3.18	3.29	82.69	2.60	2.52	H3525
H3525	3 1/2 X 2 1/2	88.9 x 63.5	4		0.224	5.695	6	12.64	16.06	169.57	3.81	3.25	98.29	3.10	2.47	H3525
H3525	3 1/2 X 2 1/2	88.9 x 63.5	1/4		0.250	6.350	6	13.96	17.74	184.49	4.15	3.22	106.44	3.35	2.45	H3525

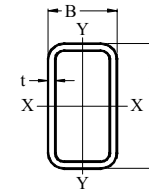


# H TUBO RECTANGULAR PHERT DIMENSIONES Y PROPIEDADES



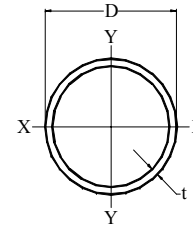
PERFIL	PERFILES ESTRUCTURALES RECTANGULARES															PERFIL
	DIMENSIONES Y PESOS TEORICOS								PROPIEDADES ESTRUCTURALES							
	DIMENSIONES EXTERIORES		CAL	COLOR	ESPESOR		LONG	PESO	AREA	Ix	Sx	rx	ly	Sy	ry	
	pulgadas	milimetros			plgs	mm	M	Kg/m	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	
H4015	4 x 1 1/2	101.6 x 38.1	20		0.036	0.912	6	1.98	2.51	32.71	0.64	3.61	7.13	0.37	1.68	H4015
H4015	4 x 1 1/2	101.6 x 38.1	18		0.048	1.214	6	2.62	3.33	43.05	0.85	3.59	9.31	0.49	1.67	H4015
H4015	4 x 1 1/2	101.6 x 38.1	16		0.060	1.519	6	3.27	4.15	53.22	1.05	3.58	11.42	0.60	1.66	H4015
H4015	4 x 1 1/2	101.6 x 38.1	14		0.075	1.897	6	4.06	5.16	65.52	1.29	3.56	13.92	0.73	1.64	H4015
H4020	4 x 2	101.6 x 50.8	14	AZUL	0.075	1.897	6	4.44	5.64	77.50	1.53	3.71	26.35	1.04	2.16	H4020
H4020	4 x 2	101.6 x 50.8	13		0.090	2.278	6	5.30	6.74	91.80	1.81	3.69	31.02	1.22	2.15	H4020
H4020	4 x 2	101.6 x 50.8	12		0.105	2.657	6	6.15	7.82	105.61	2.08	3.68	35.48	1.40	2.13	H4020
H4020	4 x 2	101.6 x 50.8	11	BLANCO	0.120	3.038	6	7.00	8.89	119.11	2.34	3.66	39.78	1.57	2.12	H4020
H4020	4 x 2	101.6 x 50.8	10	VERDE	0.135	3.416	6	7.83	9.95	132.14	2.60	3.65	43.87	1.73	2.10	H4020
H4020	4 x 2	101.6 x 50.8	8		0.164	4.176	6	9.47	12.03	157.16	3.09	3.61	51.56	2.03	2.07	H4020
H4020	4 x 2	101.6 x 50.8	7	ROJO	0.179	4.554	6	10.27	13.05	169.08	3.33	3.60	55.14	2.17	2.06	H4020
H4020	4 x 2	101.6 x 50.8	4		0.224	5.695	6	12.64	16.06	202.88	3.99	3.55	64.98	2.56	2.01	H4020
H4020	4 x 2	101.6 x 50.8	1/4		0.250	6.350	6	13.96	17.74	220.91	4.35	3.53	70.02	2.76	1.99	H4020
H4030	4 x 3	101.6 x 76.2	14		0.075	1.897	6	5.20	6.60	101.46	2.00	3.92	65.23	1.71	3.14	H4030
H4030	4 x 3	101.6 x 76.2	13		0.090	2.278	6	6.21	7.89	120.35	2.37	3.90	77.23	2.03	3.13	H4030
H4030	4 x 3	101.6 x 76.2	12		0.105	2.657	6	7.21	9.17	138.65	2.73	3.89	88.80	2.33	3.11	H4030
H4030	4 x 3	101.6 x 76.2	11	BLANCO	0.120	3.038	6	8.21	10.43	156.61	3.08	3.87	100.11	2.63	3.10	H4030
H4030	4 x 3	101.6 x 76.2	10	VERDE	0.135	3.416	6	9.19	11.68	173.99	3.42	3.86	111.01	2.91	3.08	H4030
H4030	4 x 3	101.6 x 76.2	8		0.164	4.176	6	11.14	14.15	207.53	4.09	3.83	131.90	3.46	3.05	H4030
H4030	4 x 3	101.6 x 76.2	7	ROJO	0.179	4.554	6	12.09	15.37	223.59	4.40	3.81	141.84	3.72	3.04	H4030
H4030	4 x 3	101.6 x 76.2	4		0.224	5.695	6	14.92	18.95	269.47	5.30	3.77	169.96	4.46	2.99	H4030
H4030	4 x 3	101.6 x 76.2	1/4		0.250	6.350	6	16.50	20.97	294.18	5.79	3.75	184.92	4.85	2.97	H4030
H5030	5 x 3	127.0 x 76.2	14		0.075	1.897	6	5.96	7.57	172.29	2.71	4.77	78.54	2.06	3.22	H5030
H5030	5 x 3	127.0 x 76.2	13		0.090	2.278	6	7.12	9.05	204.75	3.22	4.76	93.05	2.44	3.21	H5030
H5030	5 x 3	127.0 x 76.2	12		0.105	2.657	6	8.28	10.52	236.32	3.72	4.74	107.06	2.81	3.19	H5030
H5030	5 x 3	127.0 x 76.2	11		0.120	3.038	6	9.43	11.98	267.42	4.21	4.73	120.77	3.17	3.18	H5030
H5030	5 x 3	127.0 x 76.2	10		0.135	3.416	6	10.56	13.42	297.65	4.69	4.71	134.01	3.52	3.16	H5030
H5030	5 x 3	127.0 x 76.2	8		0.164	4.176	6	12.81	16.27	356.35	5.61	4.68	159.44	4.18	3.13	H5030
H5030	5 x 3	127.0 x 76.2	7		0.179	4.554	6	13.91	17.68	384.64	6.06	4.66	171.57	4.50	3.12	H5030
H5030	5 x 3	127.0 x 76.2	4		0.224	5.695	6	17.19	21.85	466.16	7.34	4.62	205.99	5.41	3.07	H5030
H5030	5 x 3	127.0 x 76.2	1/4		0.250	6.350	6	19.04	24.19	510.53	8.04	4.59	224.37	5.89	3.05	H5030

**H**  
**TUBO RECTANGULAR PHERT**  
**DIMENSIONES Y PROPIEDADES**



PERFIL	PERFILES ESTRUCTURALES RECTANGULARES														PERFIL	
	DIMENSIONES Y PESOS TEORICOS								PROPIEDADES ESTRUCTURALES							
	DIMENSIONES EXTERIORES		CAL	COLOR	ESPESOR		LONG	PESO	AREA	Ix	Sx	rx	Iy	Sy		ry
	pulgadas	milimetros			plgs	mm	M	Kg/m	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>		cm
H6020	6 x 2	152.4 x 50.8	14	azul	0.075	1.897	6	5.96	7.57	212.95	2.79	5.30	37.88	1.49	2.24	H6020
H6020	6 x 2	152.4 x 50.8	13		0.090	2.278	6	7.12	9.05	253.14	3.32	5.29	44.66	1.76	2.22	H6020
H6020	6 x 2	152.4 x 50.8	12		0.105	2.657	6	8.28	10.52	292.24	3.84	5.27	51.14	2.01	2.21	H6020
H6020	6 x 2	152.4 x 50.8	11	blanco	0.120	3.038	6	9.43	11.98	330.78	4.34	5.26	57.41	2.26	2.19	H6020
H6020	6 x 2	152.4 x 50.8	10	verde	0.135	3.416	6	10.56	13.42	368.27	4.83	5.24	63.39	2.50	2.17	H6020
H6020	6 x 2	152.4 x 50.8	8		0.164	4.176	6	12.81	16.27	441.11	5.79	5.21	74.68	2.94	2.14	H6020
H6020	6 x 2	152.4 x 50.8	7	ROJO	0.179	4.554	6	13.91	17.68	476.25	6.25	5.19	79.96	3.15	2.13	H6020
H6020	6 x 2	152.4 x 50.8	4		0.224	5.695	6	17.19	21.85	577.59	7.58	5.14	94.56	3.72	2.08	H6020
H6020	6 x 2	152.4 x 50.8	1/4		0.250	6.350	6	19.04	24.19	632.80	8.30	5.11	102.11	4.02	2.05	H6020

**M**  
**TUBO CIRCULAR**  
**DIMENSIONES Y PROPIEDADES**



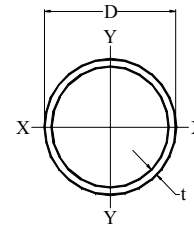
**TUBO ESTRUCTURAL MECÁNICO CEDULA 30**

**DIMENSIONES Y PESOS TEORICOS**

**PROPIEDADES ESTRUCTURALES**

PERFIL	Diámetro Nominal	DIAMETROS EXTERIORES		CAL	ESPESOR		LONG M	PESO Kg/M	AREA cm <sup>2</sup>	Ix cm <sup>4</sup>	Sx cm <sup>3</sup>	rx cm	Iy cm <sup>4</sup>	Sy cm <sup>3</sup>	ry cm	PERFIL
		pulgadas	milímetros		plgs	mm										
<b>M0500</b>	1/2	0.840	21.34	14	0.073	1.85	6.00	0.89	1.13	0.543	0.509	0.69	0.543	0.509	0.69	<b>M0500</b>
<b>M0750</b>	3/4	1.050	26.67	14	0.073	1.85	6.00	1.14	1.45	1.119	0.839	0.88	1.119	0.839	0.88	<b>M0750</b>
<b>M1000</b>	1	1.315	33.40	14	0.073	1.85	6.00	1.45	1.84	2.294	1.374	1.12	2.294	1.374	1.12	<b>M1000</b>
<b>M1250</b>	1 1/4	1.660	42.16	13	0.090	2.29	6.00	2.25	2.86	5.712	2.709	1.41	5.712	2.709	1.41	<b>M1250</b>
<b>M1500</b>	1 1/2	1.900	48.26	13	0.090	2.29	6.00	2.60	3.30	8.745	3.624	1.63	8.745	3.624	1.63	<b>M1500</b>
<b>M2000</b>	2	2.375	60.33	12	0.105	2.67	6.00	3.80	4.83	20.12	6.670	2.04	20.12	6.670	2.04	<b>M2000</b>
<b>M2500</b>	2 1/2	2.875	73.03	12	0.105	3.05	6.00	5.27	6.70	41.09	11.25	2.48	41.09	11.25	2.48	<b>M2500</b>
<b>M3000</b>	3	3.500	88.90	11	0.120	3.05	6.00	6.47	8.22	75.84	17.06	3.04	75.84	17.06	3.04	<b>M3000</b>
<b>M4000</b>	4	4.500	114.30	11	0.120	3.05	6.00	8.38	10.65	164.9	28.86	3.93	164.9	28.86	3.93	<b>M4000</b>
<b>M6000</b>	6	6.625	168.28	0.179"	0.179	4.55	6.00	18.40	23.39	784.2	93.21	5.79	784.2	93.21	5.79	<b>M6000</b>

**M**  
**TUBO CIRCULAR**  
**DIMENSIONES Y PROPIEDADES**

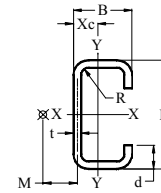


<b>PERFIL</b>	<b>TUBO ESTRUCTURAL MECÁNICO CEDULA 40</b>														<b>PERFIL</b>	
	<b>DIMENSIONES Y PESOS TEORICOS</b>								<b>PROPIEDADES ESTRUCTURALES</b>							
	<b>Díámetro Nominal</b>	<b>DIAMETROS EXTERIORES</b>		<b>CAL</b>	<b>ESPESOR</b>		<b>LONG</b>	<b>PESO</b>	<b>AREA</b>	<b>I<sub>x</sub></b>	<b>S<sub>x</sub></b>	<b>r<sub>x</sub></b>	<b>I<sub>y</sub></b>	<b>S<sub>y</sub></b>		<b>r<sub>y</sub></b>
		<b>pulgadas</b>	<b>milímetros</b>		<b>plgs</b>	<b>mm</b>										
<b>M0500</b>	1/2	0.840	21.34	12	0.105	2.67	6.40	1.23	1.56	0.695	0.652	0.67	0.695	0.652	0.67	<b>M0500</b>
<b>M0750</b>	1/2	1.050	26.67	12	0.105	2.67	6.40	1.58	2.01	1.466	1.10	0.85	1.466	1.10	0.85	<b>M0750</b>
<b>M1000</b>	1	1.315	33.40	10	0.135	3.43	6.40	2.54	3.23	3.673	2.20	1.07	3.673	2.20	1.07	<b>M1000</b>
<b>M1250</b>	1 1/4	1.660	42.16	10	0.135	3.43	6.40	3.28	4.17	7.887	3.741	1.37	7.887	3.741	1.37	<b>M1250</b>
<b>M1500</b>	1 1/2	1.900	48.26	10	0.135	3.43	6.40	3.80	4.83	12.20	5.058	1.59	12.20	5.058	1.59	<b>M1500</b>
<b>M2000</b>	2	2.375	60.33	10	0.135	3.43	6.40	4.82	6.13	24.89	8.252	2.02	24.89	8.252	2.02	<b>M2000</b>
<b>M2500</b>	2 1/2	2.875	73.03	7	0.194	4.93	6.40	8.30	10.54	61.43	16.82	2.41	61.43	16.82	2.41	<b>M2500</b>
<b>M3000</b>	3	3.500	88.90	4	0.224	5.69	6.40	11.71	14.87	129.3	29.1	2.95	129.3	29.1	2.95	<b>M3000</b>
<b>M4000</b>	4	4.500	114.30	4	0.224	5.69	6.40	15.28	19.41	287.0	50.23	3.85	287.0	50.23	3.85	<b>M4000</b>
<b>M6000</b>	6	6.625	168.28	0.280"	0.280	7.11	6.40	28.34	36.01	1171	139.2	5.70	1171	139.2	5.70	<b>M6000</b>
<b>M6000</b>	6	6.625	168.28	0.250"	0.250	6.35	6.10	25.42	32.30	1060	126.0	5.73	1060	126.0	5.73	<b>M6000</b>

# C

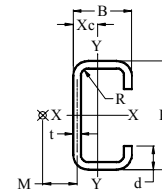
## PERFIL POLIN C FORMADO EN FRIO

### DIMENSIONES Y PROPIEDADES



PERFIL	DIMENSIONES EXTERIORES EN PULGADAS H X B	CALIBRE	DIMENSIONES DE LAS SECCIONES					Long. Comercial m	Propiedades de la Sección										Soportes Laterales Lsc m	PERFIL	
			H mm	B mm	d mm	t mm	R mm		PESO Kg/m	AREA cm <sup>2</sup>	EJE X-X			EJE Y-Y				F. C Q			
											lx	Sx	rx	ly	Sy	ry	Xc				M
											cm <sup>4</sup>	cm <sup>3</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm				cm
C0315	3 X 1 1/2	18	76	38	19	1.06	3.96	6	1.70	2.16	19.17	5.03	2.98	4.95	2.15	1.51	1.51	2.06	0.83	0.80	C0315
C0315	3 X 1 1/2	16	76	38	19	1.52	3.96	6	2.11	2.68	23.55	6.18	2.97	6.03	2.62	1.50	1.51	2.31	0.91	0.78	C0315
C0315	3 X 1 1/2	14	76	38	19	1.90	3.96	4	2.60	3.31	28.77	7.55	2.95	7.29	3.17	1.48	1.51	2.29	0.97	0.76	C0315
C0315	3 X 1 1/2	14	76	38	19	1.90	3.96	5	2.60	3.31	28.77	7.55	2.95	7.29	3.17	1.48	1.51	2.29	0.97	0.76	C0315
C0315	3 X 1 1/2	14	76	38	19	1.90	3.96	6	2.60	3.31	28.77	7.55	2.95	7.29	3.17	1.48	1.51	2.29	0.97	0.76	C0315
C0415	4 X 1 1/2	18	102	38	19	1.06	3.96	6	1.94	2.47	37.97	7.47	3.92	5.51	2.22	1.50	1.33	1.89	0.73	0.94	C0415
C0415	4 X 1 1/2	16	102	38	19	1.52	3.96	6	2.41	3.06	46.78	9.21	3.91	6.72	2.71	1.48	1.33	2.13	0.82	0.93	C0415
C0415	4 X 1 1/2	14	102	38	19	1.90	3.96	4	2.98	3.79	57.34	11.29	3.89	8.13	3.28	1.46	1.33	2.11	0.88	0.92	C0415
C0415	4 X 1 1/2	14	102	38	19	1.90	3.96	5	2.98	3.79	57.34	11.29	3.89	8.13	3.28	1.46	1.33	2.11	0.88	0.92	C0415
C0415	4 X 1 1/2	14	102	38	19	1.90	3.96	6	2.98	3.79	57.34	11.29	3.89	8.13	3.28	1.46	1.33	2.11	0.88	0.92	C0415
C0420	4 X 2	18	102	51	19	1.06	3.96	6	2.18	2.77	45.74	9.00	4.06	10.77	3.33	1.97	1.85	2.48	0.73	1.14	C0420
C0420	4 X 2	16	102	51	19	1.52	3.96	6	2.71	3.45	56.44	11.11	4.05	13.20	4.09	1.96	1.85	2.79	0.85	1.13	C0420
C0420	4 X 2	14	102	51	19	1.90	3.96	4	3.36	4.27	69.31	13.64	4.03	16.07	4.97	1.94	1.85	2.78	0.90	1.12	C0420
C0420	4 X 2	14	102	51	19	1.90	3.96	5	3.36	4.27	69.31	13.64	4.03	16.07	4.97	1.94	1.85	2.78	0.90	1.12	C0420
C0420	4 X 2	14	102	51	19	1.90	3.96	6	3.36	4.27	69.31	13.64	4.03	16.07	4.97	1.94	1.85	2.78	0.90	1.12	C0420
C0520	5 X 2	18	127	51	19	1.06	3.96	6	2.43	3.08	76.92	12.11	5.00	11.66	3.42	1.94	1.67	2.33	0.67	1.12	C0520
C0520	5 X 2	16	127	51	19	1.52	3.96	5	3.02	3.83	95.07	14.97	4.98	14.29	4.19	1.93	1.67	2.63	0.77	1.12	C0520
C0520	5 X 2	14	127	51	19	1.90	3.96	6	3.74	4.75	116.99	18.42	4.96	17.40	5.11	1.91	1.67	2.61	0.82	1.11	C0520
C0620	6 X 2	16	152	51	19	1.52	3.96	6	3.32	4.21	145.17	19.05	5.87	15.17	4.27	1.90	1.53	2.50	0.71	1.10	C0620
C0620	6 X 2	14	152	51	19	1.90	3.96	6	4.11	5.23	178.88	23.48	5.85	18.48	5.20	1.88	1.53	2.48	0.76	1.09	C0620
C0825	8 X 2 1/2	16	203	64	19	1.52	3.96	8	4.23	5.38	329.30	32.41	7.83	28.29	6.12	2.29	1.73	2.85	0.56	1.29	C0825
C0825	8 X 2 1/2	14	203	64	19	1.90	3.96	8	5.26	6.68	407.00	40.06	7.80	34.61	7.49	2.28	1.73	2.83	0.65	1.28	C0825
C0825	8 X 2 1/2	12	203	64	19	2.66	3.96	8	7.29	9.26	557.80	54.90	7.76	46.43	10.06	2.24	1.73	2.79	0.77	1.26	C0825
C0825	8 X 2 1/2	10	203	64	19	3.42	3.96	8	9.27	11.78	701.80	69.07	7.72	57.17	12.39	2.20	1.74	2.75	0.83	1.24	C0825
C0827	8 X 2 3/4	16	203	70	19	1.52	3.96	8	4.38	5.57	349.10	34.36	7.92	35.68	7.09	2.53	1.96	3.16	0.60	1.46	C0827
C0827	8 X 2 3/4	14	203	70	19	1.90	3.96	8	5.45	6.93	431.60	42.48	7.89	43.71	8.69	2.51	1.96	3.14	0.67	1.45	C0827
C0827	8 X 2 3/4	12	203	70	19	2.66	3.96	8	7.55	9.60	592.00	58.27	7.85	58.83	11.70	2.48	1.96	3.10	0.76	1.43	C0827
C0827	8 X 2 3/4	10	203	70	19	3.42	3.96	8	9.61	12.22	745.40	73.37	7.81	72.68	14.46	2.44	1.96	3.06	0.82	1.41	C0827
C1027	10 X 2 3/4	14	254	70	19	1.90	3.96	10	6.21	7.89	731.60	57.61	9.63	46.64	8.86	2.43	1.73	2.91	0.59	1.41	C1027
C1027	10 X 2 3/4	12	254	70	19	2.66	3.96	10	8.62	10.95	1005.80	79.20	9.58	62.78	11.94	2.39	1.73	2.87	0.68	1.39	C1027
C1027	10 X 2 3/4	10	254	70	19	3.42	3.96	10	10.98	13.95	1269.50	99.96	9.54	77.56	14.76	2.36	1.74	2.83	0.74	1.36	C1027
C1235	12 X 3 1/2	14	305	89	25	1.90	3.96	12	7.71	9.80	1337.50	87.76	11.68	98.63	14.97	3.17	2.30	3.81	0.59	1.78	C1235
C1235	12 X 3 1/2	12	305	89	25	2.66	3.96	12	10.72	13.63	1845.50	121.10	11.64	133.96	20.34	3.14	2.30	3.77	0.64	1.77	C1235
C1235	12 X 3 1/2	10	305	89	25	3.42	3.96	12	13.69	17.40	2338.00	153.41	11.59	167.05	25.38	3.10	2.31	3.74	0.70	1.75	C1235

**C**  
**PERFIL POLIN C FORMADO EN FRIO**  
**DIMENSIONES Y PROPIEDADES**

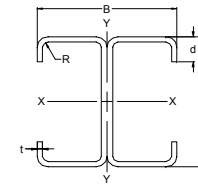


PERFIL	DIMENSIONES EXTERIORES EN PULGADAS H X B	CALIBRE	DIMENSIONES DE LAS SECCIONES					Long. Comercial m	Propiedades de la Sección														PERFIL		
			H mm	B mm	d mm	t mm	R mm		PESO Kg/m	AREA cm <sup>2</sup>	EJE X-X						EJE Y-Y							J cm <sup>4</sup>	Cw cm <sup>6</sup>
											Sxe cm <sup>3</sup>	Ix cm <sup>4</sup>	Sx cm <sup>3</sup>	rx cm	ly cm <sup>4</sup>	Sy cm <sup>3</sup>	ry cm	Xc cm	M cm						
C0315	3 X 1 1/2	18	76	38	19	1.06	3.96	6	1.70	2.16	4.97	19.17	5.03	2.98	4.95	2.15	1.51	1.51	2.06	0.00712	88	C0315			
C0315	3 X 1 1/2	16	76	38	19	1.52	3.96	6	2.11	2.68	6.14	23.55	6.18	2.97	6.03	2.62	1.50	1.51	2.31	0.02059	113	C0315			
C0315	3 X 1 1/2	14	76	38	19	1.90	3.96	4	2.60	3.31	7.55	28.77	7.55	2.95	7.29	3.17	1.48	1.51	2.29	0.03968	135	C0315			
C0315	3 X 1 1/2	14	76	38	19	1.90	3.96	5	2.60	3.31	7.55	28.77	7.55	2.95	7.29	3.17	1.48	1.51	2.29	0.03968	135	C0315			
C0315	3 X 1 1/2	14	76	38	19	1.90	3.96	6	2.60	3.31	7.55	28.77	7.55	2.95	7.29	3.17	1.48	1.51	2.29	0.03968	135	C0315			
C0415	4 X 1 1/2	18	102	38	19	1.06	3.96	6	1.94	2.47	7.41	37.97	7.47	3.92	5.51	2.22	1.50	1.33	1.89	0.00814	144	C0415			
C0415	4 X 1 1/2	16	102	38	19	1.52	3.96	6	2.41	3.06	9.17	46.78	9.21	3.91	6.72	2.71	1.48	1.33	2.13	0.02355	184	C0415			
C0415	4 X 1 1/2	14	102	38	19	1.90	3.96	4	2.98	3.79	11.29	57.34	11.29	3.89	8.13	3.28	1.46	1.33	2.11	0.04546	221	C0415			
C0415	4 X 1 1/2	14	102	38	19	1.90	3.96	5	2.98	3.79	11.29	57.34	11.29	3.89	8.13	3.28	1.46	1.33	2.11	0.04546	221	C0415			
C0415	4 X 1 1/2	14	102	38	19	1.90	3.96	6	2.98	3.79	11.29	57.34	11.29	3.89	8.13	3.28	1.46	1.33	2.11	0.04546	221	C0415			
C0420	4 X 2	18	102	51	19	1.06	3.96	6	2.18	2.77	8.94	45.74	9.00	4.06	10.77	3.33	1.97	1.85	2.48	0.00915	274	C0420			
C0420	4 X 2	16	102	51	19	1.52	3.96	6	2.71	3.45	11.07	56.44	11.11	4.05	13.20	4.09	1.96	1.85	2.79	0.02652	356	C0420			
C0420	4 X 2	14	102	51	19	1.90	3.96	4	3.36	4.27	13.64	69.31	13.64	4.03	16.07	4.97	1.94	1.85	2.78	0.05124	430	C0420			
C0420	4 X 2	14	102	51	19	1.90	3.96	5	3.36	4.27	13.64	69.31	13.64	4.03	16.07	4.97	1.94	1.85	2.78	0.05124	430	C0420			
C0420	4 X 2	14	102	51	19	1.90	3.96	6	3.36	4.27	13.64	69.31	13.64	4.03	16.07	4.97	1.94	1.85	2.78	0.05124	430	C0420			
C0520	5 X 2	18	127	51	19	1.06	3.96	6	2.43	3.08	11.41	76.92	12.11	5.00	11.66	3.42	1.94	1.67	2.33	0.01017	420	C0520			
C0520	5 X 2	16	127	51	19	1.52	3.96	5	3.02	3.83	14.92	95.07	14.97	4.98	14.29	4.19	1.93	1.67	2.63	0.02949	544	C0520			
C0520	5 X 2	14	127	51	19	1.90	3.96	6	3.74	4.75	18.42	116.99	18.42	4.96	17.40	5.11	1.91	1.67	2.61	0.05702	659	C0520			
C0620	6 X 2	16	152	51	19	1.52	3.96	6	3.32	4.21	18.99	145.17	19.05	5.87	15.17	4.27	1.90	1.53	2.50	0.03246	787	C0620			
C0620	6 X 2	14	152	51	19	1.90	3.96	6	4.11	5.23	23.48	178.88	23.48	5.85	18.48	5.20	1.88	1.53	2.48	0.06280	955	C0620			
C0825	8 X 2 1/2	16	203	64	19	1.52	3.96	8	4.23	5.38	30.97	329.30	32.41	7.83	28.29	6.12	2.29	1.73	2.85	0.04136	2430	C0825			
C0825	8 X 2 1/2	14	203	64	19	1.90	3.96	8	5.26	6.68	39.41	407.00	40.06	7.80	34.61	7.49	2.28	1.73	2.83	0.08014	2965	C0825			
C0825	8 X 2 1/2	12	203	64	19	2.66	3.96	8	7.29	9.26	54.90	557.80	54.90	7.76	46.43	10.06	2.24	1.73	2.79	0.21788	3962	C0825			
C0825	8 X 2 1/2	10	203	64	19	3.42	3.96	8	9.27	11.78	69.07	701.80	69.07	7.72	57.17	12.39	2.20	1.74	2.75	0.45812	4858	C0825			
C0827	8 X 2 3/4	16	203	70	19	1.52	3.96	8	4.38	5.57	32.92	349.10	34.36	7.92	35.68	7.09	2.53	1.96	3.16	0.04284	3034	C0827			
C0827	8 X 2 3/4	14	203	70	19	1.90	3.96	8	5.45	6.93	41.83	431.60	42.48	7.89	43.71	8.69	2.51	1.96	3.14	0.08303	3708	C0827			
C0827	8 X 2 3/4	12	203	70	19	2.66	3.96	8	7.55	9.60	58.27	592.00	58.27	7.85	58.83	11.70	2.48	1.96	3.10	0.22583	4968	C0827			
C0827	8 X 2 3/4	10	203	70	19	3.42	3.96	8	9.61	12.22	73.37	745.40	73.37	7.81	72.68	14.46	2.44	1.96	3.06	0.47500	6110	C0827			
C1027	10 X 2 3/4	14	254	70	19	1.90	3.96	10	6.21	7.89	56.81	731.60	57.61	9.63	46.64	8.86	2.43	1.73	2.91	0.09461	6077	C1027			
C1027	10 X 2 3/4	12	254	70	19	2.66	3.96	10	8.62	10.95	79.20	1005.80	79.20	9.58	62.78	11.94	2.39	1.73	2.87	0.25765	8167	C1027			
C1027	10 X 2 3/4	10	254	70	19	3.42	3.96	10	10.98	13.95	99.96	1269.50	99.96	9.54	77.56	14.76	2.36	1.74	2.83	0.54263	10073	C1027			
C1235	12 X 3 1/2	14	305	89	25	1.90	3.96	12	7.71	9.80	87.74	1337.50	87.76	11.68	98.63	14.97	3.17	2.30	3.81	0.11755	18565	C1235			
C1235	12 X 3 1/2	12	305	89	25	2.66	3.96	12	10.72	13.63	121.10	1845.50	121.10	11.64	133.96	20.34	3.14	2.30	3.77	0.32068	25162	C1235			
C1235	12 X 3 1/2	10	305	89	25	3.42	3.96	12	13.69	17.40	153.41	2338.00	153.41	11.59	167.05	25.38	3.10	2.31	3.74	0.67657	31308	C1235			

## 2 C

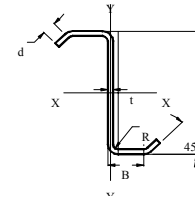
### DOBLE PERFIL POLIN C FORMADO EN FRIO

#### DIMENSIONES Y PROPIEDADES



PERFIL	DIMENSIONES EXTERIORES EN PULGADAS H X B	CALIBRE	DIMENSIONES DE LAS SECCIONES					Long. Comercial m	Propiedades de la Sección												PERFIL
			H mm	B mm	d mm	t mm	R mm		PESO Kg/m	AREA cm <sup>2</sup>	EJE X-X			EJE Y-Y			J cm <sup>4</sup>	Cw cm <sup>6</sup>	Diagrama de la Sección		
											lx cm <sup>4</sup>	Sx cm <sup>3</sup>	rx cm	ly cm <sup>4</sup>	Sy cm <sup>3</sup>	ry cm			ly cm <sup>4</sup>	ry cm	
C0315	3 X 3	18	76	76	19	1.06	3.96	6	6.79	4.31	38.34	10.06	2.98	19.70	2.59	2.14	0.01425	408	32.75	2.76	C0315
C0315	3 X 3	16	76	76	19	1.52	3.96	6	8.42	5.35	47.10	12.36	2.97	24.23	3.18	2.13	0.04117	524	40.42	2.75	C0315
C0315	3 X 3	14	76	76	19	1.90	3.96	4	10.41	6.62	57.54	15.10	2.95	29.62	3.89	2.12	0.07936	626	49.64	2.74	C0315
C0315	3 X 3	14	76	76	19	1.90	3.96	5	10.41	6.62	57.54	15.10	2.95	29.62	3.89	2.12	0.07936	626	49.64	2.74	C0315
C0315	3 X 3	14	76	76	19	1.90	3.96	6	10.41	6.62	57.54	15.10	2.95	29.62	3.89	2.12	0.07936	626	49.64	2.74	C0315
C0415	4 X 3	18	102	76	19	1.06	3.96	6	7.76	4.93	75.94	14.95	3.92	19.71	2.59	2.00	0.01628	631	41.41	2.90	C0415
C0415	4 X 3	16	102	76	19	1.52	3.96	6	9.64	6.12	93.56	18.42	3.91	24.24	3.18	1.99	0.04711	805	51.16	2.89	C0415
C0415	4 X 3	14	102	76	19	1.90	3.96	4	11.93	7.58	114.68	22.57	3.89	29.65	3.89	1.98	0.09092	966	62.93	2.88	C0415
C0415	4 X 3	14	102	76	19	1.90	3.96	5	11.93	7.58	114.68	22.57	3.89	29.65	3.89	1.98	0.09092	966	62.93	2.88	C0415
C0415	4 X 3	14	102	76	19	1.90	3.96	6	11.93	7.58	114.68	22.57	3.89	29.65	3.89	1.98	0.09092	966	62.93	2.88	C0415
C0420	4 X 4	18	102	102	19	1.06	3.96	6	8.73	5.55	91.48	18.01	4.06	40.52	3.99	2.70	0.01830	1199	79.42	3.78	C0420
C0420	4 X 4	16	102	102	19	1.52	3.96	6	10.85	6.90	112.88	22.22	4.05	49.99	4.92	2.69	0.05304	1554	98.35	3.78	C0420
C0420	4 X 4	14	102	102	19	1.90	3.96	4	13.45	8.54	138.62	27.29	4.03	61.36	6.04	2.68	0.10248	1878	121.30	3.77	C0420
C0420	4 X 4	14	102	102	19	1.90	3.96	5	13.45	8.54	138.62	27.29	4.03	61.36	6.04	2.68	0.10248	1878	121.30	3.77	C0420
C0420	4 X 4	14	102	102	19	1.90	3.96	6	13.45	8.54	138.62	27.29	4.03	61.36	6.04	2.68	0.10248	1878	121.30	3.77	C0420
C0520	5 X 4	18	127	102	19	1.06	3.96	6	9.70	6.16	153.84	24.23	5.00	40.53	3.99	2.56	0.02033	1791	94.95	3.92	C0520
C0520	5 X 4	16	127	102	19	1.52	3.96	5	12.07	7.67	190.14	29.94	4.98	50.00	4.92	2.55	0.05898	2319	117.67	3.92	C0520
C0520	5 X 4	14	127	102	19	1.90	3.96	6	14.97	9.51	233.98	36.85	4.96	61.37	6.04	2.54	0.11404	2808	145.26	3.91	C0520
C0620	6 X 4	16	152	102	19	1.52	3.96	6	13.26	8.43	290.34	38.10	5.87	50.00	4.92	2.44	0.06491	3407	136.68	4.03	C0620
C0620	6 X 4	14	152	102	19	1.90	3.96	6	16.46	10.46	357.76	46.95	5.85	61.38	6.04	2.42	0.12559	4133	168.83	4.02	C0620
C0825	8 X 5	16	203	127	19	1.52	3.96	8	16.93	10.75	658.60	64.82	7.83	88.72	6.99	2.87	0.08272	10277	286.23	5.16	C0825
C0825	8 X 5	14	203	127	19	1.90	3.96	8	21.03	13.36	814.00	80.12	7.80	109.23	8.60	2.86	0.16027	12542	354.44	5.15	C0825
C0825	8 X 5	12	203	127	19	2.66	3.96	8	29.14	18.52	1115.60	109.80	7.76	148.46	11.69	2.83	0.43577	16758	487.58	5.13	C0825
C0825	8 X 5	10	203	127	19	3.42	3.96	8	37.08	23.56	1403.60	138.15	7.72	185.31	14.59	2.80	0.91625	20551	615.93	5.11	C0825
C0827	8 X 5 1/2	16	203	140	19	1.52	3.96	8	17.54	11.14	698.20	68.72	7.92	113.96	8.16	3.20	0.08568	12832	353.23	5.63	C0827
C0827	8 X 5 1/2	14	203	140	19	1.90	3.96	8	21.80	13.85	863.20	84.96	7.89	140.41	10.05	3.18	0.16605	15684	437.68	5.62	C0827
C0827	8 X 5 1/2	12	203	140	19	2.66	3.96	8	30.21	19.20	1184.00	116.54	7.85	191.23	13.69	3.16	0.45165	21014	602.81	5.60	C0827
C0827	8 X 5 1/2	10	203	140	19	3.42	3.96	8	38.46	24.43	1490.80	146.73	7.81	239.16	17.12	3.13	0.95000	25844	762.43	5.59	C0827
C1027	10 X 5 1/2	14	254	140	19	1.90	3.96	10	24.83	15.78	1463.20	115.21	9.63	140.43	10.04	2.98	0.18922	25524	529.98	5.80	C1027
C1027	10 X 5 1/2	12	254	140	19	2.66	3.96	10	34.46	21.90	2011.60	158.39	9.58	191.30	13.68	2.96	0.51530	34300	730.72	5.78	C1027
C1027	10 X 5 1/2	10	254	140	19	3.42	3.96	10	43.92	27.90	2539.00	199.92	9.54	239.30	17.12	2.93	1.08526	42306	925.13	5.76	C1027
C1235	12 X 7	14	305	178	25	1.90	3.96	12	30.85	19.60	2675.00	175.52	11.68	300.95	16.93	3.92	0.23509	74629	1048.54	7.31	C1235
C1235	12 X 7	12	305	178	25	2.66	3.96	12	42.89	27.25	3691.00	242.19	11.64	412.46	23.20	3.89	0.64135	101150	1450.35	7.30	C1235
C1235	12 X 7	10	305	178	25	3.42	3.96	12	54.76	34.79	4676.00	306.82	11.59	519.26	29.20	3.86	1.35313	125858	1841.76	7.28	C1235

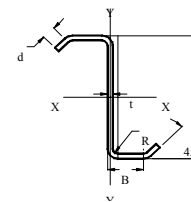
## Z PERFIL POLIN Z FORMADO EN FRIO DIMENSIONES Y PROPIEDADES



PERFIL	DIMENSIONES EXTERIORES EN PULGADAS H X B	CALIBRE	DIMENSIONES DE LAS SECCIONES					Long. Comercial m	Propiedades de la Sección											F. C Q	Soportes. Laterales Lsz m	PERFIL
			H	B	d	t	R		EJE X-X					EJE Y-Y								
									PESO Kg/m	AREA cm <sup>2</sup>	Ix cm <sup>4</sup>	Sx cm <sup>3</sup>	rx cm	Iy cm <sup>4</sup>	Sy cm <sup>3</sup>	ry cm	rm cm	Ixy cm <sup>4</sup>				
Z0825	8 X 2 1/2	16	203	63.5	15	1.52	3.96	8	3.38	4.29	266.89	26.27	7.89	36.88	7.98	2.93	1.95	71.86	0.56	1.28	Z0825	
Z0825	8 X 2 1/2	14	203	63.5	15	1.90	3.96	8	5.25	6.67	411.80	40.53	7.86	56.85	12.31	2.92	1.94	123.43	0.65	1.26	Z0826	
Z0825	8 X 2 1/2	12	203	63.5	15	2.66	3.96	8	7.32	9.30	568.49	55.95	7.82	78.42	16.98	2.90	1.93	170.34	0.77	1.24	Z0827	
Z0825	8 X 2 1/2	10	203	63.5	15	3.42	3.96	8	9.36	11.89	720.45	70.91	7.78	99.32	21.52	2.89	1.92	215.82	0.83	1.22	Z0828	



**Z**  
**PERFIL POLIN Z FORMADO EN FRIO**  
**DIMENSIONES Y PROPIEDADES**



PERFIL	DIMENSIONES EXTERIORES EN PULGADAS H X B	CALIBRE	DIMENSIONES DE LAS SECCIONES					Long. Comercial m	Propiedades de la Sección													PERFIL
			H mm	B mm	d mm	t mm	R mm		PESO Kg/m	AREA cm <sup>2</sup>	EJE X-X				EJE Y-Y					J cm <sup>4</sup>	Cw cm <sup>6</sup>	
											Sxe cm <sup>3</sup>	Ix cm <sup>4</sup>	Sx cm <sup>3</sup>	rx cm	Iy cm <sup>4</sup>	Sy cm <sup>3</sup>	ry cm	rm cm	Ixy cm			
<b>Z0825</b>	8 X 2 1/2	16	203	63.5	15	1.52	3.96	8	3.38	4.29	24.83	266.89	26.27	7.89	36.88	7.98	2.93	1.95	71.86	0.04042	2959	<b>Z0825</b>
<b>Z0825</b>	8 X 2 1/2	14	203	63.5	15	1.90	3.96	8	5.25	6.67	39.88	411.80	40.53	7.86	56.85	12.31	2.92	1.94	123.43	0.07832	3606	<b>Z0826</b>
<b>Z0825</b>	8 X 2 1/2	12	203	63.5	15	2.66	3.96	8	7.32	9.30	55.95	568.49	55.95	7.82	78.42	16.98	2.90	1.93	170.34	0.21288	4807	<b>Z0827</b>
<b>Z0825</b>	8 X 2 1/2	10	203	63.5	15	3.42	3.96	8	9.36	11.89	70.91	720.45	70.91	7.78	99.32	21.52	2.89	1.92	215.82	0.44749	5878	<b>Z0828</b>