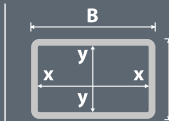


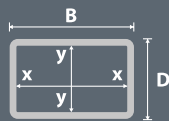
**PTR**  
Perfil Tubular Rectangular (HSS)



**PTR**  
Perfil Tubular Rectangular (HSS)

Dimensiones BXD	Espesor mm.	Peso		Área cm <sup>2</sup>	Ejes X- X			Ejes Y- Y		
		Kg/m	lbs/pie		I cm <sup>4</sup>	S cm <sup>3</sup>	r cm	I cm <sup>4</sup>	S cm <sup>3</sup>	r cm
8" x 6"	0.188	25.42	17.08	32.39	1.984.0	191.73	7.75	1.252.9	163.9	6.22
	0.250	33.36	22.42	42.52	2.510.6	245.81	7.68	1.606.7	211.4	6.15
	0.313	41.06	27.59	52.39	3.013.5	296.61	7.60	1.931.3	254.0	6.07
	0.375	48.48	32.58	61.81	3.483.9	342.48	7.52	2.226.8	291.7	6.00
	0.500	62.58	42.06	80.00	4.287.2	422.79	7.34	2.734.6	358.9	5.87
10" x 4"	0.188	25.42	17.08	32.39	2.568.2	201.56	8.91	616.00	121.1	4.37
	0.250	33.36	22.42	42.52	3.300.7	260.55	8.81	782.5	153.9	4.30
	0.313	41.06	27.59	52.32	3.954.2	313.00	8.71	932.4	183.5	4.22
	0.375	48.48	32.58	61.81	4.578.6	360.52	8.61	1.061.4	209.8	4.14
	0.500	52.58	42.06	80.00	5.660.8	444.10	8.40	1.282.0	252.4	4.01
12" x 2"	0.188	25.42	17.08	32.39	2.996.9	196.64	9.62	156.5	61.6	2.20
	0.250	33.36	22.42	42.52	3.837.7	252.36	9.50	192.3	75.7	2.13
10" x 6"	0.188	29.21	19.63	37.23	3.321.5	262.20	9.45	1.519.2	199.9	6.38
	0.250	38.42	25.82	48.97	4.287.2	337.57	9.37	1.952.1	255.6	6.32
	0.313	47.38	31.84	60.39	5.202.9	409.68	9.27	2.351.1	308.1	6.25
	0.375	56.09	37.69	71.61	6.035.4	457.22	9.19	2.722.2	357.2	6.17
	0.500	72.7	48.86	92.90	7.533.8	593.21	9.01	3.363.2	440.8	6.02
12" x 4"	0.188	29.21	19.63	37.23	4.087.4	268.75	10.50	728.4	143.4	4.42
	0.250	38.42	25.82	48.97	5.286.1	345.77	10.39	928.2	181.9	4.34
	0.313	47.38	31.84	60.39	6.368.3	2307.22	10.29	1.107.2	218.0	4.82
	0.375	56.09	37.69	71.61	7.408.9	484.10	10.19	1.269.5	249.1	4.22
	0.500	72.7	48.86	92.90	9.198.7	603.00	9.96	1.535.9	303.2	4.06
12" x 6"	0.188	33.01	22.18	42.06	5.161.3	339.21	11.11	1.781.5	234.3	6.50
	0.250	43.5	29.23	55.42	6.701.3	440.81	11.00	2.297.6	301.5	6.43
	0.313	53.72	36.10	68.39	8.158.1	534.20	10.92	2.772.1	363.8	6.38
	0.375	63.68	42.80	81.29	9.490.0	624.35	10.82	3.213.3	421.2	6.30
	0.500	82.83	55.67	105.81	11.945.8	783.30	10.64	3.995.8	524.4	6.15
14" x 4"	0.250	43.5	29.23	55.42	7.866.8	442.45	11.19	1.073.9	211.4	4.39
	0.313	53.72	36.10	68.39	9.573.3	537.5	11.81	1.286.2	252.4	4.34
	0.375	63.68	42.80	81.29	11.113.4	625.98	11.70	1.473.5	290.1	4.27
	0.500	82.83	55.56	105.81	13.943.8	783.30	11.48	1.794.0	352.3	4.11

Dimensiones BXD	Espesor mm.	Peso		Área cm <sup>2</sup>	Ejes X- X			Ejes Y- Y		
		Kg/m	lbs/pie		I cm <sup>4</sup>	S cm <sup>3</sup>	r cm	I cm <sup>4</sup>	S cm <sup>3</sup>	r cm
12" x 8"	0.250	48.56	32.63	61.87	8.158.1	534.22	11.48	4.370.4	431.0	8.41
	0.312	60.05	40.35	76.77	9.947.9	652.21	11.40	5.327.8	524.4	8.33
	0.375	71.28	47.90	90.97	11.612.9	762.00	11.30	6.201.9	611.2	8.28
	0.500	92.95	62.47	118.71	14.693.0	965.20	11.15	7.825.2	768.6	8.13
	0.250	48.56	32.63	61.87	9.864.7	553.90	12.62	2.638.9	345.8	6.53
14" x 6"	0.312	60.05	40.36	76.77	11.987.5	675.15	12.52	3.192.5	419.5	6.45
	0.375	71.28	47.90	90.97	14.027.0	788.22	12.42	3.708.6	486.7	6.40
	0.500	92.95	62.47	118.71	17.731.5	996.33	12.24	4.620.2	608.0	6.25
16" x 4"	0.312	60.05	40.36	76.77	13.610.8	670.23	13.33	1.461.0	288.4	4.37
	0.375	71.28	47.90	90.97	15.900.0	783.30	13.23	1.681.6	331.0	4.29
	0.500	92.95	62.47	118.71	20.020.7	986.50	13.30	2.052.0	403.1	4.17
14" x 10"	0.312	72.71	48.86	92.90	16.857.4	948.81	13.49	10.072.8	793.1	10.49
	0.375	86.46	48.10	110.32	19.812.6	1114.32	13.41	11.821.0	930.8	10.36
	0.500	113.20	76.08	144.52	25.306.9	1424.00	13.26	15.026.0	1.184.8	10.21
16" x 8"	0.312	72.71	48.86	92.90	20.020.7	984.86	14.70	6.867.8	675.2	8.61
	0.375	86.46	58.10	110.32	23.517.0	1156.93	14.60	8.033.3	789.9	8.53
	0.500	113.20	76.08	144.52	30.052.0	1478.11	14.43	10.156.0	999.6	8.38
18" x 6"	0.312	72.71	48.86	92.90	22.726.2	994.70	15.67	4.037.4	529.3	6.60
	0.375	86.46	58.10	110.32	26.680.4	1168.40	15.57	4.703.4	616.2	6.53
	0.500	113.20	76.08	114.52	34.047.7	1489.58	15.37	5.868.9	773.5	6.40
20" x 4"	0.312	72.71	48.86	92.90	24.807.4	976.67	16.36	1.818.9	357.2	4.42
	0.375	86.46	58.10	110.32	29.094.6	1145.46	16.26	2.093.6	411.3	4.37
	0.500	113.20	76.08	114.52	37.201.0	1456.81	16.03	2.564.0	504.7	4.22
16" x 12"	0.312	85.36	57.37	109.00	26.430.7	1301.13	15.60	17.023.9	1.117.6	12.52
	0.375	101.66	68.32	129.68	31.134.1	1532.20	15.51	20.062.4	1.315.9	12.45
	0.500	133.46	89.69	170.32	40.041.5	1966.45	15.34	25.723.1	1.687.9	12.28
20" x 8"	0.312	85.36	57.37	109.00	34.880.2	1373.24	17.90	8.407.9	825.9	8.79
	0.375	101.66	68.32	129.68	41.123.7	1619.00	17.83	9.823.1	968.5	8.71
	0.500	133.46	89.69	170.32	52.861.4	2081.16	17.63	12.486.9	1.230.7	8.59
20" x 12"	0.312	98.03	65.88	125.16	44.953.0	1769.80	18.93	20.603.5	1.352.0	12.85
	0.375	116.85	78.53	149.00	53.277.6	2097.54	18.90	24.266.3	1.593.0	12.78
	0.500	153.73	103.31	196.13	68.678.2	2703.87	18.72	31.217.4	2.048.4	12.62



# PTR

## Perfil Tubular Rectangular (HSS)

Dimensiones Exteriores D x B pulg - mm	Espesor (t)		Calibre	Color	Peso		Área cm <sup>2</sup>	Momentos de inercia		Módulo de sección		Radio de Giro		Constante de Torsión J cm <sup>4</sup>
	pulg.	mm.			kg/m	kg/pza.		I <sub>xx</sub> cm <sup>4</sup>	I <sub>yy</sub> cm <sup>4</sup>	S <sub>xx</sub> cm <sup>3</sup>	S <sub>yy</sub> cm <sup>3</sup>	r <sub>xx</sub> cm.	r <sub>yy</sub> cm.	
3" x 2" 76 x 51	0.125	3.18	11	Blanco	5.80	35.38	7.40	57.42	30.53	15.07	12.02	2.79	2.03	65.16
	0.141	3.58	9	Verde	6.47	39.47	8.25	63.03	33.43	16.54	13.16	2.76	2.01	72.04
	0.188	4.78	6	Rojo	8.34	50.87	10.63	77.42	40.75	20.32	16.04	2.7	1.96	90.26
4" x 2" 102 x 51	0.125	3.18	11	Blanco	7.07	43.13	9.01	117.34	39.69	23.1	15.63	3.61	2.10	97.47
	0.156	3.96	9	Verde	8.66	52.83	11.05	140.16	47.02	27.59	18.51	3.56	2.06	117.34
	0.188	4.78	6	Rojo	10.24	62.46	13.06	161.26	53.64	31.74	21.12	3.51	2.03	136.01
4" x 3" 102 x 76	0.125	3.18	11	Blanco	8.33	50.81	10.63	156.42	100.45	30.79	26.36	3.84	3.07	194.95
	0.156	3.96	9	Verde	10.24	62.46	13.06	188.16	120.53	37.04	31.63	3.80	3.04	237.20
	0.188	4.78	6	Rojo	12.14	74.05	15.48	218.17	139.38	42.95	36.58	3.75	3.00	278.20
5" x 3" 127 x 76	0.250	6.35	2	Azul	15.63	95.34	19.93	268.67	170.81	52.89	44.83	3.67	2.93	349.91
	0.125	3.18	11	Blanco	9.60	58.56	12.24	268.18	121.97	42.23	32.01	4.68	3.16	268.19
	0.156	3.96	9	Verde	11.82	72.10	15.07	324.20	146.81	51.05	38.53	4.64	3.12	326.94
6" x 3" 152 x 76	0.188	4.78	6	Rojo	14.04	85.64	17.91	377.87	170.37	59.51	44.72	4.59	3.08	384.27
	0.250	6.35	2	Azul	18.16	110.78	23.16	470.26	210.27	74.06	55.19	4.51	3.01	485.61
	0.125	3.18	11	Blanco	10.86	66.25	13.85	419.43	143.48	55.04	37.66	5.50	3.22	344.40
6" x 4" 152 x 102	0.156	3.96	9	Verde	13.40	81.74	17.08	508.85	173.1	66.78	45.43	5.46	3.18	420.29
	0.188	4.78	6	Rojo	15.94	97.23	20.33	595.34	201.35	78.13	52.85	5.41	3.15	494.57
	0.250	6.35	2	Azul	20.69	126.21	26.38	746.55	249.72	97.97	65.54	5.32	3.08	626.61
6" x 4" 152 x 102	0.125	3.18	11	Blanco	12.13	73.99	15.47	509.23	273.64	66.83	53.87	5.74	4.21	560.93
	0.156	3.96	9	Verde	14.98	91.38	19.10	619.76	332.16	81.33	65.39	5.70	4.17	687.90
	0.188	4.78	6	Rojo	17.85	108.89	22.76	727.55	388.87	95.48	76.55	5.65	4.13	813.78
	0.250	6.35	2	Azul	23.22	141.64	29.61	918.68	488.49	120.56	96.16	5.57	4.06	1042.50

