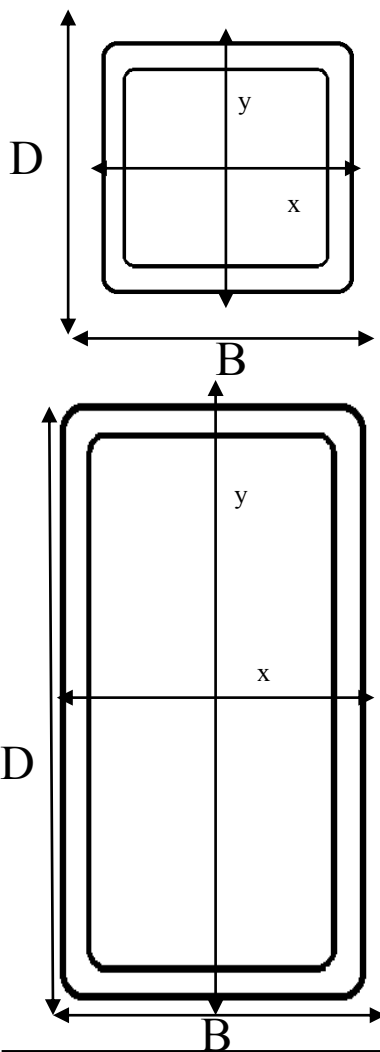


Perfil PTR Negro y Galvanizado

Parte 1-3

PTR

Diagramas de PTR



El P.T.R. es una barra hueca, comúnmente utilizada para armar estructuras que no tengan que resistir mucho peso.

Los hay en distintos calibres y tamaños, se pueden encontrar en acabado negro.

También puede ser manejado en PTR galvanizado pero sólo por pedido especial. Bajo éstas medidas

La gran ventaja de éstos perfiles es que son de fácil armado.

Éste producto está suministrado en tramos de 6.10 metros.

Se puede pedir el calibre mediante código de colores, esto no significa que el PTR esté pintado, sino que indica el calibre del PTR.

Unidad: Kilogramos.

Presentación: Tramo.

Acomodo: Por medida

Puntos de interés especial:

- El PTR es uno de los productos mas comerciales en su ramos por su gran versatilidad.
- El material es acero grado ASTM A 36.
- Parte de calibre 14

¿Cómo interpretar la tabla dimensional?

Utilizaremos de ejemplo el PTR de 2" x 2", ya que ésta es la medida de mayor rotación en GLOBAL ACEROS.

PTR CUADRADO Y RECTANGULAR

Dimensiones		Calibre	Espesor		kg/mt	kg/pza
pulg	mm		pulg	mm		
2" X 2"	50.8X50.8	14	0.075	1.9	3.02	18.422
		12	0.105	2.7	4.18	25.498
		11	0.12	3	4.75	28.975
		10	0.135	3.4	5.31	32.391

1.-En el apartado "Dimensiones" indica el tamaño del PTR, lado por lado (D x B). Es indicado también en milímetros.

2.-Posteriormente indica el espesor en calibre.

3.-Después muestra el espesor en pulgadas y milímetros.

4.-En los dos últimos apartados hace referencia al peso, correspondiente por metros y por piezas.

Perfil Tubular Cuadrado

Parte 2-3

MEDIDA D x B	ESPESOR		CALIBRE	PESO			ÁREA cm ²	MOMENTO DE INERCIA I cm ⁴	MODULO DE SECCIÓN S cm ³	RADIO DE GIRO r cm	COLOR
	pulg.	mm		kg/m	kg/pza	lb/pie					
1" x 1" 25 x 25	0.075	1.910	14	1.33	8.113	0.89	1.70	1.52	1.19	0.95	■ Azul
	0.095	2.281	13	1.62	9.882	1.09	2.07	1.75	1.38	0.92	■ Verde
	0.133	3.378	10	2.10	12.81	1.41	2.68	2.04	1.60	0.87	■ Rojo
1 1/4" x 1 1/4" 32 x 32	0.075	1.910	14	1.71	10.431	1.15	2.18	3.17	1.99	1.20	■ Azul
	0.090	2.281	13	2.20	13.42	1.48	2.62	3.62	2.34	1.18	■ Verde
	0.125	3.175	11	2.94	17.934	1.98	3.74	7.56	3.97	1.42	■ Azul
1 1/2" x 1 1/2" 38 x 38	0.125	3.175	11	3.27	19.947	2.20	4.18	8.21	4.31	1.40	■ Verde
	0.154	3.801	9	3.89	23.729	2.61	4.96	9.24	4.85	1.37	■ Rojo
	0.075	1.910	14	2.85	17.385	1.92	3.63	14.28	5.62	1.98	■ Azul
2" x 2" 51 x 51	0.110	2.794	12	4.05	24.705	2.72	5.16	19.43	7.65	1.94	□ Blanco
	0.125	3.175	11	4.54	27.694	3.05	5.79	21.37	8.41	1.92	■ Verde
	0.156	3.801	9	5.50	33.550	3.70	7.02	24.88	9.80	1.88	■ Rojo
	0.188	4.775	6	6.43	39.223	4.32	7.74	26.64	10.49	1.85	■ Azul
	0.250	6.350	2	8.05	49.105	5.41	9.68	30.80	12.13	1.78	■ Verde
2 1/2" x 2 1/2" 64 x 64	0.125	3.175	11	5.80	35.380	3.90	7.40	44.08	13.88	2.44	□ Blanco
	0.141	3.801	9	6.47	39.467	4.35	8.25	48.36	15.23	2.42	■ Verde
	0.188	4.775	6	8.34	50.874	5.60	10.63	59.32	18.68	2.36	■ Rojo
	0.250	6.350	2	10.58	64.538	7.11	12.71	67.42	21.30	2.31	■ Azul
3" x 3" 76 x 76	0.125	3.175	11	7.07	43.127	4.75	9.01	78.93	20.72	2.96	□ Blanco
	0.156	3.801	9	8.66	52.826	5.82	11.05	94.24	24.72	2.92	■ Verde
	0.188	4.775	6	10.24	62.464	6.88	13.06	108.40	28.30	2.88	■ Rojo
	0.250	6.350	2	13.11	79.971	8.81	15.68	125.29	32.94	2.82	■ Azul
3 1/2" x 3 1/2" 89 x 89	0.125	3.175	11	8.33	50.813	5.60	10.63	128.54	28.92	3.48	□ Blanco
	0.156	3.801	9	10.24	62.464	6.88	13.06	154.51	34.76	3.44	■ Verde
	0.188	4.775	6	12.14	74.054	8.16	15.48	179.01	40.27	3.40	■ Rojo
	0.250	6.350	2	15.63	95.343	10.50	19.93	220.16	49.53	3.32	■ Azul
4" x 4" 102 x 102	0.125	3.175	11	9.60	58.560	6.45	12.24	195.49	38.48	4.00	□ Blanco
	0.156	3.801	9	11.82	72.102	7.94	15.07	236.16	46.49	3.96	■ Verde
	0.188	4.775	6	14.04	85.644	9.43	17.91	275.07	54.15	3.92	■ Rojo
	0.250	6.350	2	18.16	110.776	12.20	23.16	341.94	67.31	3.84	■ Azul
	5/16"	7.950		22.07	134.627	14.83	28.13	398.80	78.50	3.76	■ Verde
	3/8"	9.530		25.70	156.770	17.27	32.77	445.40	87.70	3.68	■ Rojo
1/2"	12.710		32.19	196.359	21.63	41.03	512.00	100.50	3.53	■ Azul	
4 1/2" x 4 1/2" 114 x 114	0.125	3.175	11	10.86	66.246	7.30	13.85	282.40	49.41	4.51	□ Blanco
	0.156	3.801	9	13.40	81.740	9.00	17.08	342.44	59.92	4.48	■ Verde
	0.188	4.775	6	15.94	97.234	10.71	20.33	400.48	70.07	4.44	■ Rojo
	0.250	6.350	2	20.69	126.209	13.90	26.38	501.90	87.82	4.36	■ Azul
5" x 5" 127 x 127	0.125	3.175	11	12.13	73.993	8.15	15.47	391.8	61.7	5.03	□ Blanco
	0.156	3.801	9	14.98	91.378	10.07	19.1	476.6	75.0	5.00	■ Verde
	0.188	4.775	6	17.85	108.885	11.99	22.76	559.1	88.0	4.96	■ Rojo
	0.250	6.350	2	23.22	141.642	15.60	29.61	705.2	111.0	4.88	■ Azul
	5/16"	7.950		28.39	173.179	19.08	36.19	836.6	131.4	4.80	■ Verde
	3/8"	9.530		33.29	203.069	22.37	42.45	949.0	149.3	4.72	■ Rojo
1/2"	12.710		42.31	258.091	28.43	53.94	1,123.8	177.0	4.57	■ Azul	
6" x 6" 152 x 152	3/16"	4.780		21.62	131.882	14.53	27.55	990.6	130.0	5.99	■ Verde
	1/4"	6.350		28.30	172.63	19.02	36.10	1,261.2	165.5	5.92	■ Rojo
	5/16"	7.950		34.73	211.853	23.34	44.26	1,510.9	198.3	5.84	■ Azul
	3/8"	9.530		40.89	249.429	27.48	52.13	1,731.5	227.8	5.77	■ Verde
	1/2"	12.710		52.44	319.884	35.24	67.10	2,102.0	275.3	5.61	■ Rojo
7" x 7" 178 x 178	3/16"	4.780		25.42	155.062	17.08	32.39	1,602.5	180.3	7.04	■ Azul
	1/4"	6.350		33.36	203.496	22.42	42.52	2,056.2	231.1	6.96	■ Verde
	5/16"	7.950		41.06	250.466	27.59	52.32	2,476.6	278.6	6.88	■ Rojo
	3/8"	9.530		48.48	295.728	32.58	61.81	2,859.5	321.2	6.81	■ Azul
	1/2"	12.710		62.58	381.738	42.06	80.00	3,251.3	396.6	6.65	■ Verde
8" x 8" 203 x 203	3/16"	4.780		29.21	178.181	19.63	37.23	2,422.5	239.3	8.08	■ Rojo
	1/4"	6.350		38.42	234.362	25.82	48.97	3,125.9	308.1	8.00	■ Azul
	5/16"	7.950		47.38	289.018	31.84	60.39	3,783.5	372.0	7.92	■ Verde
	3/8"	9.530		56.09	342.149	37.69	71.61	4,412.1	432.6	7.85	■ Rojo
	1/2"	12.710		72.70	443.47	48.86	92.90	5,452.6	539.1	7.69	■ Azul
10" x 10" 254 x 254	5/8"	15.880		88.28	538.508	59.33	105.81	6,077.0	598.1	7.60	■ Verde
	1/4"	6.350		48.56	296.216	32.63	61.87	6,285.0	493.3	10.10	■ Rojo
	5/16"	7.950		60.05	366.305	40.36	76.77	7,617.0	601.4	9.98	■ Azul
	3/8"	9.530		71.28	434.808	47.90	90.97	8,907.0	703.0	9.91	■ Verde
	1/2"	12.710		92.95	566.995	62.47	118.71	11,280.0	881.2	9.75	■ Rojo
12" x 12" 305 x 305	5/8"	15.880		113.59	692.899	76.34	135.48	12,653.4	996.3	9.70	■ Azul
	1/4"	6.350		56.68	345.748	38.09	74.87	11,030.0	722.7	12.14	■ Verde
	5/16"	7.950		72.71	443.531	48.86	92.90	13,486.0	884.9	12.06	■ Rojo
	3/8"	9.530		86.46	527.406	58.10	110.32	15,817.0	1,039.0	12.00	■ Azul
	1/2"	12.710		113.20	690.52	76.08	144.52	20,187.0	1,325.7	11.84	■ Verde
14" x 14" 356 x 356	5/8"	15.880		138.90	847.29	93.35	165.81	22,809.5	1,497.8	11.70	■ Rojo
	5/16"	7.950		85.36	520.696	57.37	109.00	21,727.0	1,222.5	14.15	■ Azul
	3/8"	9.530		101.66	620.126	68.32	129.68	25,598.0	1,440.4	14.07	■ Verde
16" x 16" 406 x 406	1/2"	12.710		133.46	814.106	89.69	170.32	32,924.0	1,851.7	13.92	■ Rojo
	5/16"	7.950		98.03	597.983	65.88	125.16	32,841.0	1,615.8	16.12	■ Azul
	3/8"	9.530		116.85	712.785	78.53	149.00	38,751.0	1,900.9	16.13	■ Verde
1/2"	12.710		153.73	937.753	103.31	196.13	44,948.0	2,458.0	15.98	■ Rojo	

Perfil Tubular Rectangular

Parte 3-3

MEDIDA D x B	ESPESOR		CALIBRE	PESO			ÁREA	MOMENTO DE INERCIA		MODULO DE SECCIÓN		RADIO DE GIRO		COLOR
				kg/m	kg/pza	lb/pie		l xx	l yy	S xx	S yy	r xx	r yy	
								cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	
3" x 2" 76 x 51	0.125	3.175	11	5.80	35.38	3.90	7.40	57.42	30.53	15.07	12.02	2.79	2.03	<input type="checkbox"/> Blanco <input type="checkbox"/> Verde <input type="checkbox"/> Rojo
	0.141	3.801	9	6.47	39.467	4.35	8.25	63.03	33.43	16.54	13.16	2.76	2.01	
	0.188	4.775	6	8.34	50.874	5.60	10.63	77.42	40.75	20.32	16.04	2.70	1.96	
4" x 2" 102 x 51	0.125	3.175	11	7.07	43.127	4.75	9.01	117.34	36.69	23.10	15.63	3.61	2.10	<input type="checkbox"/> Blanco <input type="checkbox"/> Verde <input type="checkbox"/> Rojo
	0.156	3.801	9	8.66	52.826	5.82	11.05	140.16	47.02	27.59	18.51	3.56	2.06	
	0.188	4.775	6	10.24	62.464	6.88	13.06	161.26	53.64	31.74	21.12	3.51	2.03	
4" x 3" 102 x 76	0.125	3.175	11	8.33	50.813	5.60	10.63	156.42	100.45	30.79	26.36	3.84	3.07	<input type="checkbox"/> Blanco <input type="checkbox"/> Verde <input type="checkbox"/> Rojo <input type="checkbox"/> Azul
	0.156	3.801	9	10.24	62.464	6.88	13.06	188.16	120.53	37.04	31.63	3.80	3.04	
	0.188	4.775	6	12.14	74.054	8.16	15.48	218.17	139.38	42.95	36.58	3.75	3.00	
5" x 3" 127 x 76	0.125	3.175	11	9.60	58.56	6.45	12.24	268.18	121.97	42.23	32.01	4.68	3.16	<input type="checkbox"/> Blanco <input type="checkbox"/> Verde <input type="checkbox"/> Rojo <input type="checkbox"/> Azul
	0.156	3.801	9	11.82	72.102	7.94	15.07	324.2	146.81	51.05	38.53	4.64	3.12	
	0.188	4.775	6	14.04	85.644	9.43	17.91	377.87	170.37	59.51	44.72	4.59	3.08	
6" x 2" 152 x 51	0.125	3.175	11	9.61	58.621	6.46	11.42	309.30	54.53	40.64	21.47	5.21	2.18	<input type="checkbox"/> Blanco <input type="checkbox"/> Verde <input type="checkbox"/> Rojo <input type="checkbox"/> Azul
	0.156	3.801	9	10.35	63.135	6.95	12.20	329.00	57.86	43.01	22.78	5.19	2.20	
	0.188	4.775	6	14.02	85.522	9.42	16.71	437.00	75.34	57.19	29.66	5.11	2.11	
6" x 3" 152 x 76	0.125	3.175	11	10.86	66.246	7.30	13.85	419.43	143.48	55.04	37.66	5.50	3.22	<input type="checkbox"/> Blanco <input type="checkbox"/> Verde <input type="checkbox"/> Rojo <input type="checkbox"/> Azul
	0.156	3.801	9	13.40	81.74	9.00	17.08	508.85	173.10	66.78	45.43	5.46	3.18	
	0.188	4.775	6	15.94	97.234	10.71	20.33	595.34	201.35	78.13	52.85	5.41	3.15	
6" x 4" 152 x 102	0.125	3.175	11	12.13	73.993	8.15	15.47	509.23	273.64	66.83	53.87	5.74	4.21	<input type="checkbox"/> Blanco <input type="checkbox"/> Verde <input type="checkbox"/> Rojo <input type="checkbox"/> Azul
	0.156	3.801	9	14.98	91.378	10.07	19.10	619.76	332.16	81.33	65.39	5.70	4.17	
	0.188	4.775	6	17.85	108.885	11.99	22.76	727.55	388.87	95.48	76.55	5.65	4.13	
7" x 5" 178 x 127	3/16"	4.780		21.62	131.882	14.53	27.55	1,240.4	736.7	139.30	116.40	6.71	5.18	
	1/4"	6.350		28.30	172.63	19.02	36.10	1,581.7	940.7	178.60	148.10	6.63	5.11	
	5/16"	7.950		34.73	211.853	23.34	44.26	1,893.9	1,119.7	213.00	177.00	6.55	5.03	
	3/8"	9.530		40.89	249.429	27.48	52.13	2,172.7	1,282.0	244.20	201.60	6.45	4.95	
	1/2"	12.710		52.44	319.884	35.24	67.10	2,643.1	1,548.4	296.60	244.20	6.30	4.83	
8" x 4" 203 x 102	3/16"	4.780		21.62	131.882	14.53	27.55	1,469.3	449.5	144.70	98.70	7.32	4.27	
	1/4"	6.350		28.30	172.63	19.02	36.10	1,877.2	636.8	185.20	126.00	7.21	4.19	
	5/16"	7.950		34.73	211.853	23.34	44.26	2,243.5	753.4	221.20	148.30	7.11	4.11	
	3/8"	9.530		40.89	249.429	27.48	52.13	2,576.5	857.4	254.00	168.80	7.03	4.06	
	1/2"	12.710		52.44	319.884	35.24	67.10	3,125.9	1,023.9	308.10	201.60	6.83	3.91	
8" x 6" 203 x 152	3/16"	4.780		25.43	155.062	17.08	32.39	1,984.0	1,252.9	191.70	163.90	7.75	6.22	
	1/4"	6.350		33.36	203.496	22.42	42.52	2,510.6	1,606.7	245.80	211.40	7.68	6.15	
	5/16"	7.950		41.06	250.466	27.59	52.32	3,013.5	1,931.3	296.60	254.00	7.60	6.07	
	3/8"	9.530		48.48	295.728	32.58	61.81	3,483.9	2,226.8	342.50	291.70	7.52	6.00	
	1/2"	12.710		62.58	381.738	42.05	80.00	4,287.2	2,734.6	422.80	358.90	7.34	5.87	
10" x 2" 254 x 51	3/16"	4.780		21.62	131.882	14.53	27.55	1,818.9	130.7	143.2	51.5	8.13	2.18	
	1/4"	6.350		28.30	172.630	19.02	36.10	2,310.1	160.3	181.9	63.1	8.00	2.11	
	5/16"	7.950		34.73	211.853	23.34	44.26	2,751.3	184.0	261.3	72.4	7.87	2.04	
	3/8"	9.530		40.89	249.429	27.48	52.13	3,138.4	201.9	247.5	79.5	7.77	1.97	
10" x 4" 254 x 102	3/16"	4.780		25.42	155.062	17.08	32.39	2,568.2	616.0	201.6	212.1	8.91	4.37	
	1/4"	6.350		33.36	203.496	22.42	42.52	3,300.7	782.5	260.6	153.9	8.81	4.30	
	5/16"	7.950		41.06	250.466	27.59	52.32	3,954.2	932.4	313.0	183.5	8.71	4.22	
	3/8"	9.530		48.48	295.728	32.58	61.81	4,578.6	1,061.4	360.5	209.8	8.61	4.14	
	1/2"	12.710		62.58	381.738	42.05	80.00	5,660.8	1,282.0	444.1	252.4	8.40	4.01	
10" x 6" 254 x 152	3/16"	4.780		29.21	178.181	19.63	37.23	3,321.5	1,519.2	262.2	199.9	9.45	6.38	
	1/4"	6.350		38.42	234.362	25.82	48.97	4,287.2	1,952.1	337.6	255.6	9.37	6.32	
	5/16"	7.950		47.38	289.018	31.84	60.39	5,202.9	2,351.1	409.7	308.1	9.27	6.25	
	3/8"	9.530		56.09	342.149	37.69	71.61	6,035.4	2,722.2	475.2	357.2	9.19	6.17	
	1/2"	12.710		72.70	443.470	48.85	92.90	7,533.8	3,363.2	593.2	440.8	9.01	6.02	
12" x 2" 305 x 51	3/16"	4.780		25.42	155.062	17.08	32.39	2,996.9	156.5	196.6	61.6	9.62	2.20	
	1/4"	6.350		33.36	203.496	22.42	42.52	3,837.7	192.3	252.4	75.7	9.50	2.13	
12" x 4" 305 x 102	3/16"	4.780		29.21	178.181	19.63	37.23	4,087.4	728.4	268.8	143.4	10.50	4.42	
	1/4"	6.350		38.42	234.362	25.82	48.97	5,286.1	928.2	345.8	181.9	10.39	4.34	
	5/16"	7.950		47.38	289.018	31.84	60.39	6,368.3	1,107.2	417.9	218.0	10.29	4.82	
	3/8"	9.530		56.09	342.149	37.69	71.61	7,408.9	1,269.5	485.1	249.1	10.19	4.22	
	1/2"	12.710		72.70	443.470	48.85	92.90	9,198.7	1,535.9	603.0	303.2	9.96	4.06	
12" x 6" 305 x 152	3/16"	4.780		33.01	201.361	22.18	42.06	5,161.3	1,781.5	339.2	234.3	11.11	6.50	
	1/4"	6.350		43.50	265.350	29.23	55.42	6,701.3	2,297.6	440.8	301.5	11.00	6.43	
	5/16"	7.950		53.72	327.692	36.10	68.39	8,158.1	2,772.1	534.2	363.8	10.92	6.38	
	3/8"	9.530		63.68	388.448	42.79	81.29	9,490.0	3,213.3	624.4	421.2	10.82	6.30	
	1/2"	12.710		82.83	505.263	55.66	105.81	11,945.8	3,995.8	783.3	524.4	10.64	6.15	
12" x 8" 305 x 204	1/4"	6.350		48.56	296.216	32.63	61.87	8,158.1	4,370.4	534.2	431.0	11.48	8.41	
	5/16"	7.950		60.05	366.305	40.35	76.77	9,947.9	5,327.8	652.2	524.4	11.40	8.33	
	3/8"	9.530		71.28	434.808	47.90	90.97	11,612.9	6,201.9	762.0	611.2	11.30	8.28	
	1/2"	12.710		92.95	566.995	62.46	118.71	14,693.0	7,825.2	965.2	768.6	11.15	8.13	
	1/4"	6.350		43.50	265.350	29.23	55.42	7,866.8	1,073.9	442.5	211.4	11.19	4.39	
14" x 14" 356 x 102	5/16"	7.950		53.72	327.692	36.10	68.39	9,573.3	1,286.2	537.5	252.4	11.81	4.34	
	3/8"	9.530		63.68	388.448	42.79	81.29	11,113.4	1,473.5	626.0	290.1	11.70	4.27	
	1/2"	12.710		82.83	505.263	55.66	105.81	13,943.8	1,794.0	783.3	352.3	11.48	4.11	
	1/4"	6.350		48.56	296.216	32.63	61.87	9,864.7	2,638.9	553.9	345.8	12.62	6.53	
14" x 6" 356 x 152	5/16"	7.950		60.05	366.305	40.35	76.77	11,987.5	3,192.5	675.2	419.5	12.52	6.45	
	3/8"	9.530		71.28	434.808	47.90	90.97	14,027.0	3,708.6	788.2	486.7	12.42	6.40	
	1/2"	12.710		92.95	566.995	62.46	118.71	17,731.5	4,620.2	996.3	608.0	12.24	6.25	