

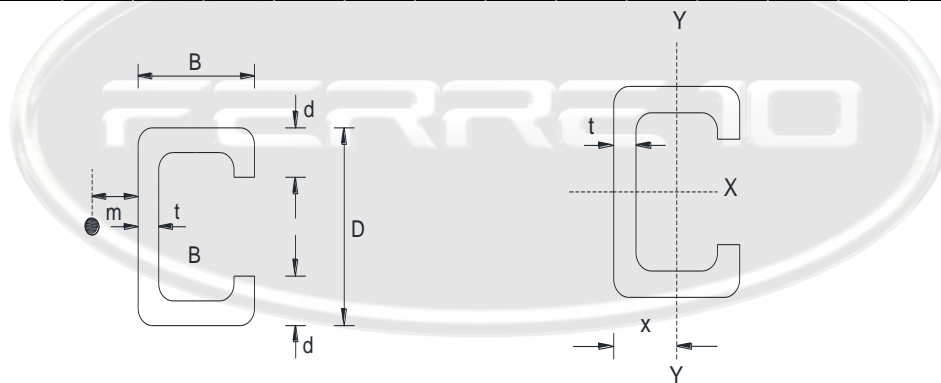


# POLÍN ESTRUCTURAL



Aceros Alianza  
SERVICIO PERSONALIZADO

CLAVE DE POLÍN	Plg	CAL	PESO	ÁREA	DIMENSIONES						PROPIEDADES								
					DIMENSIONES EN (mm)						EJEX - X			EJEX - Y			X	FAC. COL. Fb=2100	SEPARACIÓN SOPORTES LATERALES
					D	B	d	t	R	Long. (m)	Sx	Ix	rx	Iy	Sy	ry			
TIPO	DXB		kg/m	cm <sup>2</sup>	D	B	d	t	R	Long. (m)	cm <sup>3</sup>	cm <sup>4</sup>	cm	cm <sup>4</sup>	cm <sup>3</sup>	cm	cm	kg/cm <sup>2</sup>	Lsc (m)
3 MT 12	3 x 1 1/2	12	3.60	4.54	76	38	19	2.66	3.96	6.00	10.10	38.50	2.91	9.56	41.16	1.45	1.51	1.00	0.84
3 MT 14	3 x 1 1/2	14	2.40	3.31	76	38	19	1.90	3.96	6.00	7.55	28.78	2.95	7.30	3.17	1.48	1.51	0.97	0.86
4 MT 10	4 x 1 1/2	10	5.17	6.58	101	38	19	3.42	3.96	6.00	18.78	95.40	3.81	12.77	5.16	1.39	1.33	1.00	0.81
4 MT 12	4 x 1 1/2	12	4.10	5.21	101	38	19	2.66	3.96	6.00	15.20	77.22	3.85	10.64	4.29	1.43	1.33	0.96	0.83
4 MT 14	4 x 1 1/2	14	2.98	3.79	101	38	19	1.90	3.96	6.00	11.28	57.33	3.89	8.13	3.28	1.46	1.33	0.88	0.85
4 MT 10	4 x 2	10	5.98	7.45	101	50	19	3.42	3.96	---	22.94	116.54	3.96	26.07	8.07	1.87	1.85	1.00	1.08
4 MT 12	4 x 2	12	4.73	5.89	101	50	19	2.66	3.96	---	18.48	93.87	3.99	21.38	6.62	1.9	1.85	0.96	1.10
4 MT 14	4 x 2	14	3.44	4.28	101	50	19	1.90	3.96	---	13.66	69.40	4.03	16.09	4.98	1.94	1.85	0.90	1.12
5 MT 10	5 x 2	10	6.66	8.32	127	50	19	3.42	3.96	5.00	31.23	198.31	4.88	28.27	8.30	1.84	1.67	0.96	1.07
5 MT 12	5 x 2	12	5.27	6.57	127	50	19	2.66	3.96	5.00	25.05	159.08	4.92	23.16	6.80	1.88	1.67	0.90	1.09
5 MT 14	5 x 2	14	3.82	4.76	127	50	19	1.90	3.96	5.00	18.45	117.14	4.96	17.42	5.11	1.91	1.67	0.82	1.11
6 MT 10	6 x 2	10	7.38	9.19	152	50	19	3.42	3.96	6.00	40.28	306.92	5.78	30.05	8.47	1.81	1.53	0.91	1.05
6 MT 12	6 x 2	12	5.82	7.24	152	50	19	2.66	3.96	6.00	32.21	245.47	5.82	24.62	6.93	1.84	1.53	0.84	1.07
6 MT 14	6 x 2	14	4.21	5.24	152	50	19	1.90	3.96	6.00	23.65	180.24	5.86	18.51	5.21	1.88	1.53	0.76	1.09
8 MT 10	8 x 2 3/4	10	9.82	12.23	203	69	19	3.42	3.96	8.00	73.41	745.84	7.81	72.62	14.44	2.44	1.96	0.82	1.41
8 MT 12	8 x 2 3/4	12	7.72	9.61	203	69	19	2.66	3.96	8.00	58.31	592.42	7.85	58.79	11.69	2.47	1.96	0.76	1.43
8 MT 14	8 x 2 3/4	14	5.57	6.93	203	69	19	1.90	3.96	8.00	41.88	432.06	7.89	43.69	8.68	2.51	1.95	0.67	1.45
10 MT 10	10 x 2 3/4	10	11.22	13.96	254	69	19	3.42	3.96	10.00	100.02	1270.21	9.54	77.49	14.76	2.36	1.74	0.74	1.36
10 MT 12	10 x 2 3/4	12	8.80	10.96	254	69	19	2.66	3.96	10.00	79.25	1006.52	9.56	62.73	11.94	2.39	1.73	0.68	1.39
10 MT 14	10 x 2 3/4	14	6.34	7.90	254	69	19	1.90	3.96	10.00	56.86	732.34	9.63	46.62	8.87	2.43	1.73	0.59	1.41
12 MT 10	12 x 3 1/2	10	14.40	17.42	304	89	25	3.42	3.96	12.00	153.71	2342.53	11.6	168.18	25.58	3.11	2.32	0.70	1.75
12 MT 12	12 x 3 1/2	12	11.10	13.65	304	89	25	2.66	3.96	12.00	119.35	1848.96	11.64	134.85	20.50	3.14	2.31	0.64	1.77
12 MT 14	12 x 3 1/2	14	8.00	9.82	304	89	25	1.90	3.96	12.00	87.95	1540.06	11.68	99.27	15.09	3.18	2.31	0.53	1.78



El peso en kg/m puede variar + - 5%

El esfuerzo de flexión se consideró en FB=2100 Kg/cm<sup>2</sup> para el módulo de sección efectiva en flexión y para factor de columna.

\*\*\*\* En longitudes de 4 y 6 m.

## SOBRE PEDIDO

### PROPIEDADES MECÁNICAS DEL ACERO:

	ESFUERZO DE CEDENCIA	RESISTENCIA A LA TENSIÓN	ELOGANCIÓN 2"
CALIDAD COMERCIAL	2320	3163	20%
ALTA RESISTENCIA	3515	4570	12%



PTR



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SERVICIO PERSONALIZADO

PERFIL TUBULAR RECTANGULAR

DIMENSIONES		CALIBRE	ESPESOR		PESO EN KG			
Plg	mm		Pulgadas	mm	M. Lin.		Pza 6.1 m	
			Min	Min	Min	Max	Min	Max
1" x 1"	25.4 x 25.4	10	0.1345	3.42	2.13	2.49	13.00	15.19
		11	0.1196	3.04	1.95	2.24	11.90	13.66
		12	0.1046	2.66	1.76	1.99	10.70	12.14
		13	0.0897	2.28	1.55	1.74	9.50	10.62
		14	0.0747	1.90	1.33	1.46	8.10	8.91
1 1/4" x 1 1/4"	31.75 x 31.75	10	0.1345	3.42	2.81	3.20	17.10	19.52
		12	0.1046	2.66	2.29	2.57	14.00	15.68
		14	0.0747	1.90	1.71	1.87	10.40	11.41
1 1/2" x 1 1/2"	38 x 38	9	0.1495	3.80	3.81	4.02	23.20	24.52
		10	0.1345	3.42	3.50	3.91	21.40	23.85
		11	0.1196	3.04	3.17	3.33	19.30	20.31
		12	0.1046	2.66	2.82	3.12	17.20	19.03
2" x 2"	50.8 x 50.8	14	0.0747	1.90	2.09	2.27	12.70	13.85
		9	0.1495	3.80	5.33	5.56	32.50	33.92
		10	0.1345	3.42	4.86	5.31	29.60	32.39
		11	0.1196	3.04	4.38	4.75	26.70	28.98
2 1/2" x 2 1/2"	63.5 x 63.5	12	0.1046	2.66	3.89	4.18	23.70	25.50
		14	0.0747	1.90	2.85	3.02	17.39	18.42
		7	0.1793	4.55	8.00	8.37	48.80	51.06
		9	0.1495	3.80	6.75	7.13	41.20	43.49
3" x 3"	76.2 x 76.2	10	0.1345	3.42	6.17	6.23	37.60	38.00
		11	0.1196	3.04	5.60	5.82	34.20	35.50
		14	0.0747	1.90	3.61	3.80	22.00	23.18
		7	0.1793	4.55	9.81	10.28	59.80	62.71
3 1/2" x 3 1/2"	89 x 89	9	0.1495	3.80	9.73	10.28	59.40	62.71
		10	0.1345	3.42	8.89	8.97	54.20	54.72
		11	0.1196	3.04	8.03	8.34	49.00	50.87
		14	0.0747	1.90	5.11	5.27	31.17	32.15
		1/4	0.2500	6.35	15.62	15.64	95.28	95.40
4" x 4"	102 x 102	7	0.1793	4.55	11.62	12.16	70.90	74.18
		9	0.1495	3.80	11.24	12.03	68.60	73.38
		11	0.1196	3.04	9.24	9.60	56.40	58.56
		14	0.0747	1.90	5.87	6.03	35.80	36.78
2" x 1"	50.8 x 25.4	14	0.0747	1.90	2.09	2.40	12.70	14.64
2 1/2" x 2 1/2"	63.5 x 38	11	0.1196	3.04	3.77	4.70	23.00	28.68
		12	0.1046	2.66	3.36	4.16	20.50	25.38
		14	0.0747	1.90	1.90	2.85	11.60	17.39
3" x 1 1/2"	76.2 x 38	14	0.0747	1.90	3.23	3.38	19.70	20.62
3" x 2"	76.2 x 50.8	7	0.1793	4.55	8.00	8.74	48.80	53.32
		10	0.1345	3.42	6.17	6.63	37.60	40.43
		11	0.1196	3.04	5.60	5.91	34.20	36.06
		14	0.0747	1.90	3.61	3.80	22.00	23.18
4" x 1 1/2"	102 x 38	14	0.0747	1.90	3.99	4.17	24.30	25.44
4" x 2"	102 x 50.8	7	0.1793	4.55	9.81	10.55	59.80	64.38
		9	0.1495	3.80	8.25	8.77	50.30	53.51
		11	0.1196	3.04	6.81	7.12	41.50	43.45
		14	0.0747	1.90	4.35	4.50	26.50	27.46
4" x 3"	102 x 76.2	1/4	0.2500	6.35	15.62	15.64	95.30	95.40
		7	0.1793	4.55	11.62	12.37	70.90	75.44
		9	0.1495	3.80	9.73	10.27	59.40	62.66
		11	0.1196	3.04	8.03	8.34	49.00	50.84
		14	0.0747	1.90	5.11	5.26	31.20	32.09