

Polín Montén

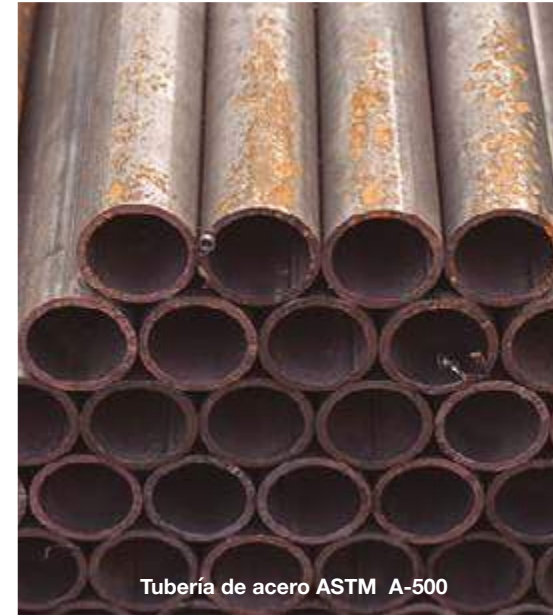
Perfil \square Laminado en Frío (CF)

Especificaciones Técnicas

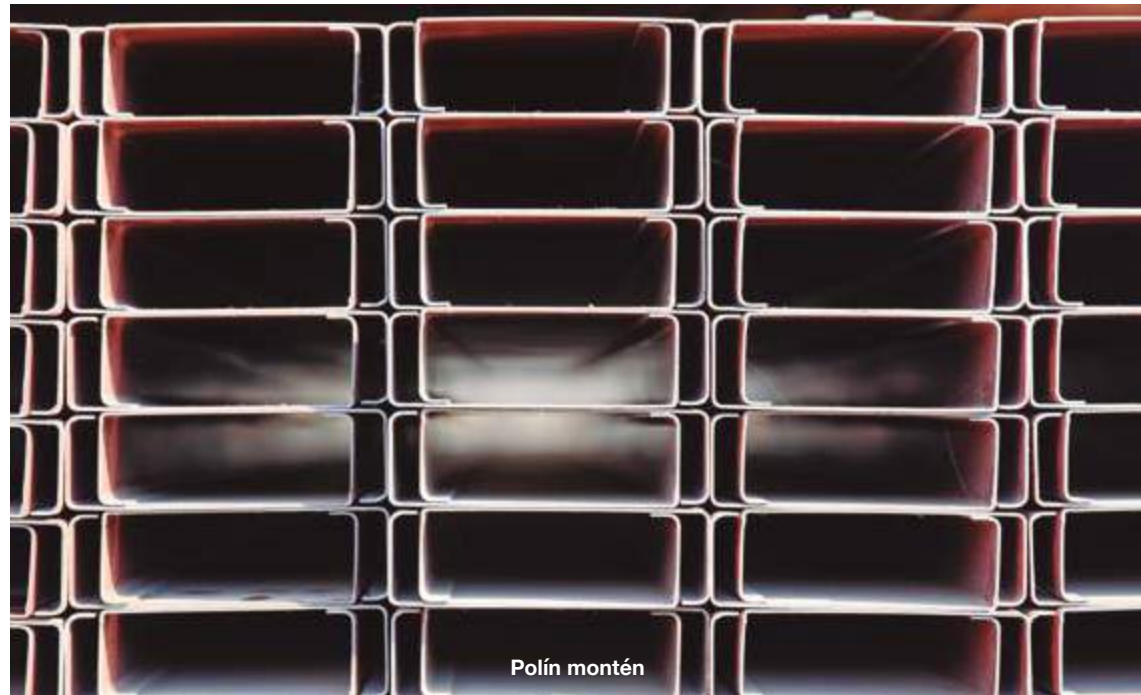
Tubería de Acero ASTM A-500



Designación D X B	Calibre	Peso kg/m	Dimensiones			ÁREA cm ²	Eje X - X			Eje Y - Y				Factor Columna Q
			d	t	R		I _x	S _x	r _x	I _y	S _y	r	x	
			mm	pulg.	mm	cm ²	cm ⁴	cm ³	cm	cm ⁴	cm ³	cm	mm	
3" x 1 1/2"	14	2.40	19	0.0747	6.4	3.23	28	7.22	2.92	7	2.99	1.46	14.99	0.98
4" x 2"	10	5.85	19	0.1345	6.4	7.30	113	22.15	3.93	25	7.66	1.84	18.35	1.00
4" x 2"	12	4.55	19	0.1046	6.4	5.78	91	17.86	3.96	20	6.30	1.88	18.36	0.97
4" x 2"	14	3.29	19	0.0747	6.4	4.19	67	13.22	4.00	15	4.76	1.92	18.37	0.91
6" x 2 1/2"	10	7.95	19	0.1345	6.4	9.90	346	45.44	5.91	50	11.54	2.25	19.89	0.93
6" x 2 1/2"	12	6.18	19	0.1046	6.4	7.80	276	36.27	5.95	41	9.39	2.29	19.90	0.87
6" x 2 1/2"	14	4.46	19	0.0747	6.4	5.64	203	26.54	5.99	31	7.02	2.33	19.90	0.79
8" x 2 3/4"	10	9.82	22	0.1345	6.4	12.28	744	73.19	7.78	75	15.11	2.47	20.21	0.83
8" x 2 3/4"	12	7.72	19	0.1046	6.4	9.49	580	57.10	7.82	57	11.28	2.45	19.38	0.77
8" x 2 3/4"	14	5.57	19	0.0747	6.4	6.85	423	41.16	7.86	42	8.39	2.49	19.37	0.69
8" x 3"	10	10.14	22	0.1345	6.4	12.71	787	77.45	7.87	93	17.34	2.71	22.53	0.84
8" x 3"	12	7.89	22	0.1046	6.4	9.98	625	61.47	7.91	75	14.00	2.74	22.52	0.78
8" x 3"	14	5.63	19	0.0747	6.4	7.09	448	42.80	7.95	52	9.62	2.72	21.67	0.69
10" x 2" 3/4"	10	11.22	22	0.1345	6.4	14.01	1269	99.92	9.52	80	15.44	2.39	17.92	0.75
10" x 2" 3/4"	12	8.80	19	0.1046	6.4	10.84	987	77.75	9.55	61	11.53	2.37	17.13	0.68
10" x 2" 3/4"	14	6.34	19	0.0747	6.4	7.81	719	55.97	9.59	45	8.58	2.41	17.09	0.61
10" x 3 1/2"	10	12.37	25	0.1345	6.4	15.52	1495	117.74	9.82	155	24.29	3.16	25.26	0.77
10" x 3 1/2"	12	9.62	22	0.1046	6.4	12.01	1165	91.12	9.85	118	18.28	3.13	24.42	0.71
10" x 3 1/2"	14	6.87	19	0.0747	6.4	8.53	833	61.37	9.88	82	12.59	3.11	23.55	0.60
12" x 3 1/2"	10	13.74	25	0.1345	6.4	17.26	2308	151.37	11.56	163	24.73	3.08	22.88	0.71
12" x 3 1/2"	12	10.64	22	0.1046	6.4	13.36	1796	117.02	11.59	124	18.61	3.05	22.07	0.64
12" x 3 1/2"	14	7.57	19	0.0747	6.4	9.50	1282	79.06	11.62	87	12.82	3.02	21.25	0.54



Tubería de acero ASTM A-500



Polín montén

CED No.	Diámetro Nominal		Diámetro Exterior		Espesor		Calibre	Peso kg/m	Tramo kg/pieza	Área cm ²	Momento de Inercia cm ⁴	Momento de Sección cm ³	Radio de Giro cm	
	pulg.	mm	pulg.	mm	pulg.	mm								
30	1/2"	13	0.840	21.34	0.075	1.905	14	0.91	5.46	1.163	0.55	0.519	0.69	
	3/4"	19	1.050	26.67	0.075	1.905	14	1.16	6.96	1.482	1.14	0.857	0.878	
	1"	25	1.315	33.40	0.075	1.905	14	1.56	9.36	1.885	2.35	1.405	1.116	
	1 1/4"	32	1.660	42.16	0.090	2.286	13	2.35	14.10	2.864	5.71	2.709	1.412	
	1 1/2"	38	1.900	48.26	0.090	2.286	13	2.71	16.26	3.302	8.75	3.624	1.627	
	2"	51	2.375	60.33	0.105	2.667	12	3.96	23.76	4.831	20.12	6.670	2.041	
	2 1/2"	64	2.875	73.03	0.105	2.667	12	4.84	29.04	6.967	42.58	11.662	2.472	
	3"	76	3.500	88.90	0.120	3.048	11	6.75	40.50	8.551	78.65	17.695	3.033	
	4"	102	4.500	114.30	0.120	3.048	11	8.74	52.44	11.084	171.24	29.962	3.93	
	5"	127	5.000	127.00	0.125	3.175	1/8"	9.69	58.14	12.351	236.87	37.303	4.379	
	6 5/8"	168	6.625	168.30	0.188	4.780	3/16"	19.23	115.38	24.528	820.30	97.495	5.783	
	8"	203	8.125	203.18	0.250	6.350	1/4"	29.25	177.90	36.009	1171.37	139.220	5.704	
40	1/2"	13	0.840	21.34	0.109	2.769	12	1.27	7.62	1.615	0.71	0.667	0.664	
	3/4"	19	1.050	26.67	0.113	2.870	12	1.68	10.08	2.146	1.54	1.156	0.848	
	1"	25	1.315	33.40	0.133	3.378	10	2.65	15.90	3.186	3.64	2.177	1.068	
	1 1/4"	32	1.660	42.16	0.135	3.429	10	3.49	20.94	4.313	8.10	3.844	1.371	
	1 1/2"	38	1.900	48.26	0.145	3.683	9	4.37	26.22	5.158	12.90	5.346	1.581	
	2"	51	2.375	60.33	0.154	3.912	9	5.55	33.30	6.932	27.71	9.187	1.999	
	2 1/2"	64	2.875	73.03	0.188	4.775	3/16"	8.43	50.58	10.994	63.67	17.436	2.406	
	3"	76	3.500	88.90	0.220	5.588	5	12.25	73.50	14.377	125.58	28.253	2.955	
	4"	102	4.500	114.30	0.220	5.588	5	15.98	95.88	20.478	301.04	52.676	3.834	
	6 5/8"	168	6.625	168.28	0.280	7.112	1/4"	29.25	177.90	36.009	1171.37	139.220	5.704	
	PG*	1/2"	13	0.840	21.34	0.090	2.286	13	1.07	6.42	1.368	0.63	0.590	0.678
		3/4"	19	1.050	26.67	0.095	2.413	13	1.44	8.64	1.839	1.37	1.024	0.862
1"		25	1.315	33.40	0.104	2.642	12	2.00	12.00	2.553	3.04	1.821	1.092	
1 1/4"		32	1.660	42.16	0.110	2.794	12	2.71	16.26	3.456	6.73	3.192	1.395	
1 1/2"		38	1.900	48.26	0.114	2.896	11	3.24	19.44	4.127	10.66	4.417	1.607	
2"		51	2.375	60.33	0.120	3.048	11	4.30	25.80	5.485	22.56	7.478	2.028	
2 1/2"		64	2.875	73.03	0.145	3.683	9	6.29	37.74	8.023	48.36	13.244	2.455	
3"		76	3.500	88.90	0.150	3.810	9	7.99	47.94	10.185	92.36	20.779	3.011	
4"		102	4.500	114.30	0.156	3.962	8	10.77	64.62	13.735	209.29	36.621	3.904	
5"		127	5.000	127.00	0.156	3.962	8	12.01	72.06	15.316	290.12	45.689	4.325	
6 1/4"		159	6.250	158.75	0.156	3.962	8	15.11	90.66	19.268	577.45	72.749	5.474	
6 5/8"		168	6.625	168.28	0.250	6.350	1/4"	25.33	151.98	32.303	1060.33	126.024	5.729	



Especificaciones Técnicas

Tubería de Acero ASTM A-500



Especificaciones Técnicas

Tubería de Acero ASTM A-500

Denominación	Tamaño nominal	Cédula	Diámetro Exterior		Diámetro de Pared		Peso Extremo Liso		Diámetro Interior	Propiedades Mecánicas (KSI)						Área		I		S		R	
			D	t	Wpe	d	Grados A 500						pulg ²	cm ²	pulg ⁴	cm ⁴	pulg ³	cm ³	pulg	cm			
			(pulg)a	(pulg)a	(lb/pie)	(kg/m)	A (KSI)	B (KSI)		C (KSI)	LE (fy) UT	LE (fy) UT									LE (fy) UT	% Elong. 25	% Elong. 23
6 5/8			6.625	0.172	11.85	17.66	6.281	33	45	42	58	46	62	3.49	22.50	18.13	754.65	5.47	89.69	2.28	5.80		
6 5/8			6.625	0.188	12.92	19.25	6.249	33	45	42	58	46	62	3.80	24.53	19.67	818.84	5.94	97.32	2.28	5.78		
6 5/8			6.625	0.203	13.92	20.74	6.219	33	45	42	58	46	62	4.10	26.42	21.10	878.14	6.37	104.37	2.27	5.77		
6 5/8			6.625	0.219	14.98	22.32	6.187	33	45	42	58	46	62	4.41	28.43	22.59	940.44	6.82	111.77	2.27	5.76		
6 5/8			6.625	0.250	17.02	25.36	6.125	33	45	42	58	46	62	5.01	32.30	25.43	1058.45	7.68	125.80	2.26	5.73		
6 5/8			6.625	0.280	18.97	28.27	6.065	33	45	42	58	46	62	5.58	36.01	28.09	1169.38	8.48	138.97	2.25	5.73		
6 5/8			6.625	0.312	21.04	31.34	6.001	33	45	42	58	46	62	6.19	39.92	30.85	1283.93	9.30	152.60	2.23	5.68		
6 5/8			6.625	0.344	23.08	34.38	5.937	33	45	42	58	46	62	6.79	43.79	33.51	1394.98	10.12	165.80	2.22	5.65		
6 5/8			6.625	0.375	25.03	37.29	5.875	33	45	42	58	46	62	7.36	47.50	36.02	1499.18	10.87	178.18	2.21	5.62		
6 5/8			6.625	0.432	28.57	42.97	5.761	33	45	42	58	46	62	8.40	54.23	40.42	1682.35	12.20	199.55	2.19	5.57		
6 5/8			6.625	0.500	32.71	48.72	5.625	33	45	42	58	46	62	9.62	62.07	45.34	1887.09	13.69	224.29	2.17	5.52		
8 5/8			8.625	0.188	16.94	25.24	8.249	33	45	42	58	46	62	4.38	32.15	44.28	1843.14	10.27	168.27	2.98	7.58		
8 5/8			8.625	0.203	18.26	27.20	8.219	33	45	42	58	46	62	4.67	34.65	47.59	1979.77	11.03	180.74	2.98	7.57		
8 5/8			8.625	0.219	19.66	29.29	8.187	33	45	42	58	46	62	4.96	37.31	51.03	2123.67	11.83	193.89	2.97	7.55		
8 5/8			8.625	0.250	22.36	33.31	8.125	33	45	42	58	46	62	5.58	42.44	57.62	2398.29	13.36	218.95	2.96	7.52		
8 5/8			8.625	0.277	24.70	36.79	8.071	33	45	42	58	46	62	6.26	46.87	63.24	2632.94	14.66	240.31	2.95	7.50		
8 5/8			8.625	0.312	27.70	41.27	8.001	33	45	42	58	46	62	7.01	52.57	70.36	2928.60	16.32	267.36	2.94	7.47		
8 5/8			8.625	0.322	28.55	42.54	8.981	33	45	42	58	46	62	8.40	54.19	72.36	3011.86	16.78	274.96	2.94	7.46		
8 5/8			8.625	0.344	30.42	45.32	7.937	33	45	42	58	46	62	8.95	57.74	76.71	3192.84	17.79	291.48	2.93	7.44		
8 5/8			8.625	0.375	33.04	49.22	7.875	33	45	42	58	46	62	9.72	62.71	82.71	3442.79	19.18	314.30	2.92	7.42		
8 5/8			8.625	0.432	38.30	57.05	7.749	33	45	42	58	46	62	11.27	72.68	94.49	3932.88	21.91	359.04	2.90	7.36		
8 5/8			8.625	0.500	43.39	64.83	7.625	33	45	42	58	46	62	12.76	82.34	105.53	4392.41	24.47	401.00	2.88	7.31		
10 3/4			10.750	0.188	21.21	31.59	10.374	33	45	42	58	46	62	6.24	40.25	86.86	3615.39	16.16	264.82	3.73	9.49		
10 3/4			10.750	0.203	22.87	34.06	10.344	33	45	42	58	46	62	6.73	43.40	93.40	3887.45	17.38	284.74	3.73	9.47		
10 3/4			10.750	0.219	24.63	36.69	10.312	33	45	42	58	46	62	7.25	46.74	100.31	4175.05	18.66	305.81	3.72	9.46		
10 3/4			10.750	0.250	28.04	41.76	10.250	33	45	42	58	46	62	8.25	53.20	113.51	4724.71	21.12	346.07	3.71	9.43		
10 3/4			10.750	0.279	31.20	46.48	10.192	33	45	42	58	46	62	9.18	59.21	125.65	5229.95	23.38	383.08	3.70	9.41		
10 3/4			10.750	0.307	34.24	51.01	10.136	33	45	42	58	46	62	10.07	64.98	137.18	5709.66	25.52	418.21	3.69	9.38		
10 3/4			10.750	0.344	38.23	56.95	10.062	33	45	42	58	46	62	11.25	72.55	152.11	6331.48	28.30	463.76	3.68	9.35		
10 3/4			10.750	0.365	40.48	60.31	10.020	33	45	42	58	46	62	11.91	76.83	160.45	6678.35	29.85	489.17	3.67	9.33		
10 3/4			10.750	0.438	46.24	71.86	9.974	33	45	42	58	46	62	14.19	91.55	188.61	7850.67	35.09	575.04	3.65	9.27		
10 3/4			10.750	0.500	54.74	81.84	9.750	33	45	42	58	46	62	16.10	103.88	211.57	8806.33	39.36	645.03	3.63	9.22		
12 3/4			12.750	0.188	25.22	37.57	12.374	33	45	42	58	46	62	7.42	47.87	146.12	6682.08	22.92	375.61	4.44	11.28		
12 3/4			12.750	0.203	27.20	40.92	12.344	33	45	42	58	46	62	8.00	51.62	157.22	6544.11	24.66	404.14	4.44	11.27		
12 3/4			12.750	0.219	29.31	43.66	12.312	33	45	42	58	46	62	8.62	55.62	168.97	7033.23	26.51	434.35	4.43	11.25		
12 3/4			12.750	0.250	33.38	49.72	12.250	33	45	42	58	46	62	9.82	63.34	191.48	7970.12	30.04	492.21	4.42	11.20		
12 3/4			12.750	0.281	37.42	55.75	12.188	33	45	42	58	46	62	11.01	71.02	213.65	8892.88	33.51	549.20	4.41	11.20		
12 3/4			12.750	0.312	41.45	61.74	12.126	33	45	42	58	46	62	12.19	78.65	235.49	9801.68	36.94	605.32	4.40	11.17		
12 3/4			12.750	0.330	43.77	65.21	12.090	33	45	42	58	46	62	12.80	83.07	248.01	10233.01	38.90	637.52	4.39	11.16		
12 3/4			12.750	0.344	45.58	67.90	12.062	33	45	42	58	46	62	13.41	86.50	257.68	10725.28	40.42	662.36	4.39	11.15		
12 3/4			12.750	0.375	49.56	73.83	12.000	33	45	42	58	46	62	14.58	94.06	278.84	11606.10	43.74	716.76	4.38	11.12		
12 3/4			12.750	0.406	53.52	79.74	11.939	33	45	42	58	46	62	15.74	101.58	299.67	12473.38	47.01	770.32	4.37	11.09		
12 3/4			12.750	0.438	57.59	85.80	11.874	33	45	42	58	46	62	16.94	109.30	320.85	13353.58	50.33	824.74	4.36	11.06		
12 3/4			12.750	0.500	65.42	97.45	11.750	33	45	42	58	46	62	19.24	124.14	360.90	15021.81	56.61	927.70	4.33	11.01		
14			14.000	0.188	27.73	41.31	13.624	33	45	42	58	46	62	8.16	52.77	194.22	8084.05	27.75	454.67	4.88	12.40		
14			14.000	0.203	29.91	44.56	13.594	33	45	42	58	46	62	8.80	56.77	209.04	8700.92	29.86	489.37	4.88	12.39		
14			14.000	0.210	30.93	46.07	13.580	33	45	42	58	46	62	9.10	58.70	215.92	8987.39	30.85	505.48	4.88	12.39		
14			14.000	0.219	32.23	48.02	13.562	33	45	42	58	46	62	9.48	61.17	224.74	9354.42	32.11	526.12	4.87	12.38		
14			14.000	0.250	36.71	54.69	13.500	33	45	42	58	46	62	10.80	69.67	254.85	10607.49	36.41	596.60	4.86	12.35		
14			14.000	0.281	41.17	61.33	13.438	33	45	42	58	46	62	12.11	78.14	284.54	11843.41	40.65	666.11	4.85	12.32		
14			14.000	0.312	45.61	67.95	13.376	33	45	42	58	46	62	13.42	86.56	313.82	13062.34	44.83	734.66	4.84	12.30		
14			14.000	0.344	50.17	74.74	13.312	33	45	42	58	46	62	14.76	95.21	343.63	14302.94	49.09	804.44	4.83	12.27		
14			14.000	0.375	54.57	81.29	13.250	33	45	42	58	46	62	16.05	103.56	372.10	15487.83	53.16	871.08	4.82	12.24		
14			14.000	0.406	58.94	87.81	13.188	33	45	42	58	46	62	17.34	111.86	400.17	16656.20	57.17	936.79	4.81	12.21		
14			14.000	0.438	63.44	94.51	13.124	33	45	42	58	46	62	18.66	120.40	428.73	17845.10	61.25	1003.66	4.80	12.19		
14			14.000	0.469	67.78	100.97	13.062	33	45	42	58	46	62	19.94	128.62	456.01	18980.38	65.14	1067.51	4.79	12.16		
14			14.000	0.500	72.09	107.39	13.000	33	45	42	58	46	62	21.21	136.81	482.90	20099.61	68.99	1130.46	4.78	12.13		

Especificaciones Técnicas Tubería de Acero ASTM A-500

Denominación	Tamaño nominal	Cédula	Diámetro Exterior		Diámetro de Pared		Peso Extremo Liso		Diámetro Interior	Propiedades Mecánicas (KSI)						Área		I		S		R	
			D	t	Wpe	d	Grados A 500						pulg ²	cm ²	pulg ⁴	cm ⁴							