

Angulos

(APS)		ANGULOS LADOS IGUALES					(LI)				
Medida estándar		Peso			Area	Ejes X-X y Y-Y				Eje z-z	
Pulg.	Mm	Kg/m	Pz 6.1m	Cm2	I	S	r	x=y	r min		
					Cm4	Cm3	Cm	cm	cm		
1/8"	3/4"	19.1	0.88	5.368	1.11	0.37	0.28	0.058	0.58	0.38	
	1"	25.4	1.19	7.259	1.52	0.92	0.51	0.79	0.76	0.48	
	1 1/4"	31.8	1.50	9.150	1.93	1.83	0.80	0.97	0.89	0.60	
	1 1/2"	38.1	1.83	11.163	2.34	3.25	1.18	1.17	1.07	0.73	
	1 3/4"	44.5	2.14	13.054	2.74	5.41	1.64	1.40	1.22	0.86	
	2"	50.8	2.46	15.006	3.10	7.91	2.13	1.60	1.40	0.99	
5/32"	1 1/2"	38.1	2.28	13.908	2.91	3.95	1.47	1.16	1.09	0.80	
	2"	50.8	3.09	18.849	3.95	9.73	2.71	1.57	1.40	1.05	
	2 1/2"	63.5	3.92	23.912	5.01	19.48	43.34	1.97	1.70	1.24	
3/16"	1"	25.4	1.73	10.553	2.21	1.25	0.72	0.76	0.81	0.48	
	1 1/4"	31.8	2.20	13.420	2.79	2.54	1.16	0.97	0.97	0.60	
	1 1/2"	38.1	2.68	16.348	3.43	4.58	1.64	1.17	1.12	0.73	
	1 3/4"	44.5	3.15	19.215	4.03	7.49	2.29	1.37	1.30	0.86	
	2"	50.8	3.63	22.143	4.61	11.45	3.11	1.57	1.45	0.99	
	2 1/2"	63.5	4.61	29.121	5.81	22.89	4.92	1.98	1.75	1.24	
	3"	76.2	5.52	33.672	7.03	40.01	7.22	2.39	2.08	1.51	
	3 1/2"	88.9	6.55	39.955	8.36	64.36	9.92	2.78	2.40	1.76	
1/4"	1"	25.4	2.22	13.542	2.80	1.54	0.92	0.74	0.86	0.48	
	1 1/4"	31.8	2.86	17.446	3.72	3.21	1.49	0.94	1.02	0.60	
	1 1/2"	38.1	3.48	21.228	4.40	5.83	2.20	1.14	1.19	0.73	
	1 3/4"	44.5	4.12	25.132	5.20	9.57	3.11	1.35	1.35	0.86	
	2"	50.8	4.75	28.975	6.06	14.57	4.10	1.55	1.50	0.99	
	2 1/2"	63.5	6.10	37.210	7.68	29.14	6.39	1.96	1.83	1.24	
	3"	76.2	7.29	44.669	9.29	51.60	9.50	2.36	2.13	1.49	
	3 1/2"	88.9	8.63	52.643	10.90	83.66	13.01	2.77	4.46	1.76	
	4"	101.6	9.82	59.902	12.52	124.90	17.20	3.18	2.77	2.00	
5/16"	2 1/2"	63.5	7.44	45.384	9.48	35.38	7.87	1.93	1.88	1.24	
	3"	76.2	9.08	55.388	11.48	62.90	11.60	2.34	2.21	1.47	
	3 1/2"	88.9	10.71	65.331	13.48	101.95	16.00	2.74	2.51	1.75	
	4"	101.6	12.20	74.420	15.48	154.40	21.10	3.15	2.84	2.00	
	5"	127.0	15.47	94.367	19.72	310.91	34.62	3.97	3.44	2.62	
3/8"	2 1/2"	63.5	8.78	53.558	11.16	40.79	9.34	1.91	1.93	1.24	
	3"	76.2	10.72	65.392	13.61	73.30	13.60	2.31	2.26	1.47	
	3 1/2"	88.9	12.65	77.165	16.00	119.46	18.84	2.72	2.57	1.74	
	4"	101.6	14.58	88.938	18.45	181.50	24.90	3.12	2.89	1.98	
	5"	127.0	18.30	111.630	23.29	363.80	39.70	3.96	3.53	2.52	
	6"	152.4	22.17	135.237	28.13	640.60	57.80	4.48	4.16	3.05	
7/16"	4"	101.6	13.82	102.602	21.35	206.90	28.70	3.12	2.94	1.98	
	5"	127.0	21.28	129.808	26.97	417.10	45.70	3.94	3.58	2.52	
	6"	152.4	25.60	156.160	32.65	735.90	66.70	4.75	4.27	3.02	
1/2"	3"	76.2	13.99	85.339	17.74	92.40	17.50	2.29	2.36	1.47	
	3 1/2"	88.9	16.52	100.772	20.97	151.51	24.41	2.69	2.69	1.73	
	4"	101.6	19.05	116.205	24.19	231.40	32.30	3.10	2.99	1.98	
	5"	127.0	24.11	147.071	30.65	468.30	51.60	3.91	3.63	2.49	
	6"	152.4	29.17	177.937	37.10	828.70	75.50	4.27	4.27	2.99	
5/8"	6"	152.4	36.01	219.661	45.87	1005.60	92.80	4.67	4.39	2.99	
3/4"	6"	190.5	42.71	260.531	54.45	1171.70	109.10	4.65	4.52	2.98	

CUADRADOS Y REDONDOS

Medida estándar	Diámetro		Redondo Peso teórico		Cuadrado Peso teórico	
	In.	mm.	Kg/m	Kg/pz	Kg/m	Kg/pz
3/8"	0.375	9.525	0.559	3.410	0.712	4.343
7/16"	0.438	11.125	0.761	4.640	0.971	5.923
1/2"	0.500	12.700	0.994	6.063	1.266	7.723
9/16"	0.562	14.275	1.257	7.668	1.601	9.766
5/8"	0.625	15.875	1.552	9.467	1.978	12.066
11/16"	0.688	17.475	1.878	11.456	2.393	14.597
3/4"	0.750	19.050	2.235	13.634	2.848	17.373
13/16"	0.812	20.625	2.624	16.006	3.341	20.380
7/8"	0.875	22.225	3.024	18.556	3.874	23.631
15/16"	0.938	23.825	3.493	21.307	4.449	27.139
1"	1.000	25.400	3.974	24.241	5.060	30.866
1 1/16"	1.062	26.975	4.486	27.365	5.712	34.843
1 1/8"	1.125	28.575	5.029	30.677	6.464	39.064
1 3/16"	1.188	30.175	5.605	34.191	7.136	43.530
1 1/4"	1.250	31.750	6.211	37.887	7.906	48.227
1 5/16"	1.321	33.325	6.846	41.761	8.717	53.174
1 3/8"	1.375	34.925	7.470	45.567	9.567	58.359
1 1/2"	1.500	38.100	8.942	54.546	11.395	69.510
1 9/16"	1.562	39.675	9.704	59.194	12.350	75.335
1 3/4"	1.750	44.450	12.170	74.237	15.400	93.940
1 13/16"	1.812	46.025	13.060	79.666	16.620	101.382
2	2.000	50.800	15.900	96.990	20.240	123.464
2 1/8"	2.125	53.975	17.650	107.665	22.850	139.385
2 1/4"	2.250	57.150	20.120	122.732	25.530	155.733
2 1/2"	2.500	63.500	24.840	151.524	31.630	192.943

SEMIFLECHA

Diametro	Largo	Pzas/atado	Kg/atado
Pulg.	Mts.	Aprox.	Aprox.
3/16	6	120	100
1/4	6	67	100
5/16	6	43	100
3/8	6	30	100
1/2	6	17	100

SOLERAS

Medidas Estándar			Peso Teórico		
Pulgadas	mm		Kg/m	Kg/6.1mt	
1/8"	1/2"	12.7	3.175	0.317	1.93
	3/4"	19.1		0.476	2.9
	1"	25.4		0.633	3.86
	1 1/4"	31.7		0.790	4.82
	1 1/2"	38.1		0.950	5.79
	2"	50.8		1.266	7.72
	2 1/2"	63.5		1.583	9.65
	3"	76.2		1.899	11.59
3/16"	1/2"	12.7	4.775	0.476	2.90
	3/4"	19.1		0.716	4.37
	1"	25.4		0.952	5.81
	1 1/4"	31.7		1.188	7.25
	1 1/2"	38.1		1.428	8.71
	2"	50.8		1.904	11.61
	2 1/2"	63.5		2.380	14.52
	3"	76.2		2.856	17.42
1/4"	1/2"	12.7	6.350	0.633	3.86
	3/4"	19.1		0.952	5.81
	1"	25.4		1.266	7.72
	1 1/4"	31.7		1.580	9.64
	1 1/2"	38.1		1.899	11.58
	2"	50.8		2.532	15.45
	2 1/2"	63.5		3.165	19.31
	3"	76.2		3.798	23.17
	4"	101.6		5.065	30.90
	5"	127.0		6.331	38.62
5/16"	1 1/2"	38.1	7.950	2.378	14.51
	2"	50.8		3.170	19.34
	2 1/2"	63.5		3.963	24.17
	3"	76.2		4.756	29.01
	4"	101.6		6.341	38.68
	5"	127.0		7.926	48.35
	6"	152.4		9.511	58.02

Medidas Estándar			Peso Teórico		
Pulgadas	mm		Kg/m	Kg/6.1mt	
3/8"	1 1/2"	38.1	9.525	2.849	17.38
	2"	50.8		3.798	23.17
	2 1/2"	63.5		4.748	28.96
	3"	76.2		5.698	34.76
	4"	101.6		7.597	46.34
	5"	127.0		9.496	57.93
	6"	152.4		11.395	69.51
1/2"	1 1/2"	38.1	12.700	3.798	23.17
	2"	50.8		5.065	30.90
	2 1/2"	63.5		6.331	38.62
	3"	76.2		7.597	46.34
	4"	101.6		10.129	61.79
	5"	127.0		12.661	77.23
5/8"	1 1/2"	38.1	15.875	4.748	28.96
	2"	50.8		6.331	38.62
	2 1/2"	63.5		7.913	48.27
	3"	76.2		9.496	57.93
	4"	101.6		12.661	77.23
	5"	127.0		15.827	96.54
3/4"	1 1/2"	38.1	19.050	5.698	34.76
	2"	50.8		7.597	46.34
	2 1/2"	63.5		9.496	57.93
	3"	76.2		11.395	69.51
	4"	101.6		15.194	92.68
	5"	127.0		18.992	115.85
1"	1 1/2"	38.1	25.400	5.698	34.76
	2"	50.8		7.597	46.34
	2 1/2"	63.5		9.496	57.93
	3"	76.2		11.395	69.51
	4"	101.6		15.194	92.68
	5"	127.0		18.992	115.85
1"	2"	50.8	25.400	10.129	61.79
	3"	76.2		15.194	92.68
	4"	101.6		20.258	123.57
	5"	127.0		25.232	154.47
	6"	152.4		30.387	185.36

CANALES

PROPIEDADES DE DISEÑO Y DIMENSIONES										
Peralte		Peso teórico		Área	Patín		Espesor			
Pulg	Mm	Kg/m	Lb/ft	Cm2	In	Mm	Alma		Patín	
							In	Mm	In	mm
3" L	76.20	5.21	3.50	6.68	1.410	35.814	0.125	3.175	0.254	6.452
3"	76.20	6.10	4.10	7.68	1.410	35.814	0.170	4.318	0.273	6.934
4" L	101.60	6.70	4.50	8.54	1.584	40.234	0.174	4.420	0.220	5.588
4"	101.60	8.04	5.40	10.00	1.584	40.234	0.184	4.674	0.296	7.518
6" L	152.20	12.20	8.20	15.35	1.920	48.768	0.200	5.080	0.343	8.712
6" SP	152.20	15.62	10.50	19.81	2.034	51.664	0.314	7.976	0.343	8.712
6" P	152.20	19.34	13.00	24.71	2.157	54.788	0.437	11.100	0.343	8.712
8" L	203.20	17.11	11.50	21.81	2.260	57.404	0.220	5.588	0.390	9.906
8" SP	203.20	20.46	13.75	26.06	2.343	59.512	0.303	7.696	0.390	9.906
8" P	254.00	27.90	18.75	35.55	2.527	64.186	0.487	12.370	0.390	9.906
10"	254.00	22.77	15.30	28.97	2.600	66.040	0.240	6.096	0.436	11.070
10"	254.00	29.76	20.00	37.94	2.739	69.571	0.379	9.627	0.436	11.070
10"	254.00	37.20	25.00	47.42	2.886	73.304	0.526	13.360	0.436	11.070
10"	254.00	44.64	30.00	56.90	3.033	77.038	0.673	17.094	0.436	11.070
12"	304.80	30.80	20.70	39.29	2.942	74.727	0.282	7.163	0.501	12.720
12"	304.80	37.20	25.00	47.42	3.047	77.394	0.387	9.830	0.501	12.720
12"	304.80	44.64	30.00	56.90	3.170	80.170	0.510	12.954	0.501	12.720

PROPIEDADES DE DISEÑO Y DIMENSIONES								
Peralte		EJE X-X			EJE Y-Y			DISTANCIA
Pulg	mm	5 cm ³	I cm ⁴	r cm ³	S cm ³	I cm ⁴	r cm ³	X CM
3" L	76.20	16.31	62.27	3.06	2.87	7.03	1.03	1.04
3"	76.20	17.90	68.10	2.97	3.40	8.30	1.04	1.12
4" L	101.60	25.20	128.12	3.89	2.98	9.53	1.06	0.92
4"	101.60	31.10	157.90	3.97	4.70	13.30	1.15	1.17
6" L	152.20	71.00	541.00	5.94	8.20	29.10	1.38	1.32
6" SP	152.20	82.50	628.50	5.64	9.34	36.21	1.35	1.27
6" P	152.20	95.00	724.20	5.41	10.52	43.70	1.33	1.31
8" L	203.20	133.40	1356.90	7.90	12.80	54.94	1.59	1.45
8" SP	203.20	148.00	1502.60	7.59	13.99	63.68	1.56	1.40
8" P	254.00	180.30	1831.40	7.16	16.55	82.41	1.52	1.44
10"	254.00	221.20	2805.40	9.83	19.01	94.90	1.81	1.61
10"	254.00	258.90	3284.10	9.30	21.63	116.96	1.76	1.54
10"	254.00	298.20	3776.00	8.94	24.25	139.85	1.72	1.57
10"	254.00	339.20	4287.20	8.69	27.04	164.00	1.70	1.65
12"	304.80	352.30	5368.40	11.71	28.35	161.50	2.03	1.77
12"	304.80	394.90	5993.70	11.25	30.81	186.06	1.98	1.71
12"	304.80	442.50	6742.90	10.90	33.76	213.94	1.94	1.70

VIGAS IPS

PROPIEDADES Y MEDIDAS												
Peralte		Peso kg/m	Área cm ²	Patín		Alma espesor mm	Eje - XX			Eje - YY		
pulg	mm			Ancho mm	Espesor mm		I cm ⁴	S cm ³	r cm	I cm ⁴	S cm ³	r cm
3	76.20	8.483	10.52	59	6.60	4.3000	103.3	27.10	3.12	19.10	6.50	1.35
4	101.60	11.459	14.26	67.64	7.44	4.9022	248.3	48.90	4.17	32.10	9.50	1.5
5	127.00	11.882	18.52	76.30	8.28	5.4356	503.3	79.30	5.21	51.20	13.40	1.65
6	152.40	18.602	23.29	84.63	9.12	5.8928	906.8	119.00	6.25	77.00	18.20	1.83
7	200.00	26.199	33.50	89.99	11.30	7.4930	2148.0	214.00	8.01	137.90	26.00	2.03
8	203.20	27.383	34.90	101.62	10.82	6.8830	2397.5	235.97	8.28	155.25	31.48	2.11

TABLA DE ESPECIFICACIONES DE VIGAS PARA CLAROS DETERMINADOS						
CLARO	USO ENTRE PISO			USO AZOTEA		
	SEPARACION ENTRE VIGAS (mts)					
mts	0.90	1.00	1.10	0.90	1.00	1.10
2.50	4"	4"	4"	4"	4"	4"
3.00	4"	4"	4"	4"	4"	4"
3.20	4"	4"	5"	4"	4"	4"
3.40	4"	5"	5"	4"	4"	4"
3.50	5"	5"	5"	4"	4"	5"
3.60	5"	5"	5"	4"	4"	5"
3.80	5"	5"	5"	4"	5"	5"
4.00	5"	5"	5"	5"	5"	5"
4.20	5"	5"	5"	5"	5"	5"
4.40	5"	6"	6"	5"	5"	5"
4.50	6"	6"	6"	5"	5"	6"
4.60	6"	6"	6"	5"	5"	6"
4.80	6"	6"	6"	6"	6"	6"
5.00	6"	6"	8" L	6"	6"	6"
5.20	6"	8" L	8" L	6"	8" L	8" L
5.40	8" SP	8" SP	8" SP	8" L	8" L	8" SP
5.60	8" SP	8"	8"	8" L	8" SP	8" SP
5.80	8"	8"	8"	8"	8"	8"
6.00	8"	8"	8"	8"	8"	8"

VIGAS IPR

Designación	Peso		Área	Peralte	Patín		Espesor del alma	Eje - XX			Eje - YY		
	Lb/pie	Kg/m			cm ²	mm		Ancho	Espesor	l	S	r	l
					mm	mm	mm	cm ⁴	cm ³	cm	cm ⁴	cm ³	cm
6" x 4" 152.4 x 101.6	9	13.4	17.29	150	100	5.5	4.3	683	91	6.27	91	18	2.3
	12	17.6	22.90	153	102	7.1	5.8	920	120	6.32	124	25	2.33
	16	23.8	30.58	160	102	10.3	6.6	1336	167	6.60	184	36	2.45
8" x 4" 203.2 x 101.6	10	14.9	19.10	201	100	5.2	4.3	1282	128	8.18	87	17	2.14
	13	19.4	24.71	203	102	6.5	5.8	1648	162	8.15	114	22	2.14
	15	22.4	28.65	206	102	8.0	6.2	1998	193	8.36	142	28	2.23
8" x 5 1/4" 203.2 x 133.4	18	26.9	33.94	207	133	8.4	5.8	2576	249	8.74	332	50	3.12
	21	31.3	39.74	210	134	10.2	6.4	3134	298	8.86	407	61	3.20
10" x 4" 254.0 x 101.6	12	17.9	22.84	251	101	5.3	4.8	2239	179	9.91	91	18	1.99
	15	22.4	28.45	254	102	6.9	5.8	2868	226	10.03	120	24	2.06
	17	25.5	32.19	257	102	8.4	6.1	3409	265	10.29	148	29	2.14
	19	28.3	36.26	260	102	10.0	6.4	4008	308	10.52	179	35	2.22
10" x 5 3/4" 254.0 x 146.0	22	32.8	41.87	258	146	9.1	6.1	4912	380	10.85	475	65	3.38
	26	38.7	49.10	262	147	11.2	6.6	5994	457	11.05	587	80	3.45
	30	44.7	57.03	266	148	13.0	7.6	7076	531	11.13	695	94	3.48
12" x 4" 304.8 x 101.6	14	20.9	26.71	303	101	5.7	5.1	3688	244	11.73	98	20	1.91
	16	23.8	30.39	305	101	6.7	5.6	4287	280	11.86	117	23	1.96
	19	28.3	35.94	309	102	8.9	6.0	5411	349	12.24	157	31	2.09
	22	32.8	41.81	313	102	10.8	6.6	6493	416	12.47	194	38	2.15
12" x 6 1/2" 304.8 x 165.1	26	38.7	49.35	310	165	9.7	5.8	8494	547	13.13	720	88	3.84
	30	44.7	56.71	313	166	11.2	6.6	9906	633	13.23	845	102	3.86
	25	52.2	66.45	318	167	13.2	7.6	11863	747	13.34	1020	122	3.91
12" x 8" 304.8 x 203.2	40	59.6	76.13	303	203	13.1	7.5	12903	850	13.06	1836	180	4.90
	45	67.1	85.16	306	204	14.6	8.5	14568	952	13.08	2081	203	4.93
	50	74.5	94.84	310	205	16.3	9.4	16400	1060	13.16	2343	228	4.98
14" x 5" 355.6 x 127.0	22	32.8	41.88	349	127	8.5	5.8	8283	476	14.10	291	46	2.64
	26	38.7	49.98	353	128	10.7	6.5	10198	584	14.40	375	59	2.74
	30	44.7	57.10	352	171	9.8	6.9	12112	688	14.55	816	95	3.78
14" x 6 3/4" 355.6 x 171.4	34	50.7	64.52	355	171	11.6	7.2	14152	796	14.81	970	113	3.89
	38	56.6	72.26	358	172	13.1	7.9	16025	895	14.91	1111	129	3.94
	43	64.1	81.29	347	203	13.5	7.7	17815	1027	14.78	1881	185	4.80
14" x 8" 355.6 x 203.2	48	71.5	90.97	350	204	15.1	8.6	20187	1152	14.86	2139	210	4.85
	53	79.0	100.64	354	205	16.8	9.4	22518	1275	14.96	2402	234	4.88
	26	38.7	50.09	399	140	8.8	6.4	12700	637	15.90	404	58	2.84
16" x 5 1/2" 406.7 x 139.7	31	46.1	59.04	403	140	11.2	7.7	15600	774	16.30	514	73	2.95
	36	53.6	68.39	403	177	10.9	7.5	18647	926	16.54	1020	115	3.86
	40	59.6	76.13	407	178	12.8	7.7	21561	1060	16.84	1203	135	3.99
16" x 7" 406.4 x 177.8	45	67.1	85.81	410	179	14.4	8.8	24391	1191	16.89	1365	153	3.99
	50	74.5	94.84	413	180	16.0	9.7	27430	1327	16.94	1548	172	4.04
	57	84.8	108.39	417	181	18.2	10.9	31550	1511	17.07	1794	198	4.06
	35	52.2	66.43	450	152	10.8	7.6	21300	947	17.90	634	83	3.09
18" x 6" 457.2 x 152.4	40	59.6	76.01	455	153	13.3	8.0	25600	1130	18.40	796	104	3.24
	46	68.4	87.44	459	154	15.4	9.1	29800	1300	18.50	941	122	3.28
	50	74.5	94.84	457	190	14.5	9.0	33299	1457	18.75	1669	175	4.19
18" x 11" 457.2 x 190.5	55	81.8	104.52	460	191	16.0	9.9	37045	1611	18.82	1869	195	4.24
	60	89.3	113.55	463	192	17.7	10.5	40957	1770	18.97	2085	218	4.29
	65	96.7	123.23	466	193	19.1	11.4	44537	1917	19.02	2281	236	4.29
	71	105.6	134.19	469	194	20.6	12.6	48699	2081	19.05	2510	259	4.32
18" x 11" 457.2 x 279.4	76	113.2	143.87	463	280	17.3	10.8	55359	2393	19.63	6327	452	6.62
	86	128.1	163.22	467	282	19.6	12.2	63683	2720	19.73	7284	518	6.68
	97	144.3	183.87	472	283	22.1	13.6	72841	3081	19.86	8366	592	6.73
	106	157.7	200.64	476	284	23.9	15.0	79500	3343	19.91	8157	646	6.76
	119	177.3	226.45	482	286	26.9	16.6	91115	3785	20.06	10531	736	6.83

MALLA CICLONICA GALVANIZADA

Descripcion:

La malla ciclónica se fabrica partiendo de alambre galvanizado y tensado en zig-zag formando un rombo. Los extremos de los alambres pueden ser entorchados (para formar una púa) y doblados para formar un nudo y evitar que la malla se desteje.

Para la fabricación de este producto se utiliza la mas alta tecnología.

Beneficios

- Resistente a la corrosión (galvanizada clase comercial y/o clase I).
- Homogéneo en sus propiedades mecánicas.
- Producto ideal para cercas.
- Optima en medidas: altura y abertura.
- Mayor facilidad de instalación.

Materiales

Se utiliza la mejor calidad de alambrón como materia prima.

Normas

La malla ciclónica cumple ampliamente con la norma de calidad: ASTM-A-392.

Presentación:

Se ofrece en rollos compactos de 20mts. Lineales de lardo y de 1.0 a 2.0mts. de altura en calibres 10.5 y 11. Otros calibres, dimensiones, aberturas y acabados bajo

pedido. Producto fabricado bajo el sistema de calidad BSI ISO 9002.

Aplicaciones:

Para cercado de protección y delimitación de espacios agrícolas, ganaderos, residenciales, cercos perimetrales, retención de deslaves, dimensiones internas de cercos deportivos, bodegas, estacionamientos, jaulas para zoológico, etc.

MALLA CICLONICA GALVANIZADA					
CALIBRE	DIAMETRO		ABERTURA	ALTURA	EXTREMOS TERMINADOS EN
	mm	Pulg.		m	
10.0	3.43	0.135	D57	1.00	PÚA-NUDO
			D63	1.25	
			D69	1.50	PÚA-PÚA
10.5	3.25	0.128	D57	1.75	
			D63	2.00	
			D69	1.50	PÚA-PÚA
11.0	3.05	0.120	D57	1.75	
			D63	2.00	
			D69	1.50	PÚA-PÚA
12.0	2.67	0.105	D57	1.00	
			D63	1.25	
			D69	1.50	PÚA-PÚA
12.5	2.51	0.099	D57	1.75	
			D63	2.00	
			D69	1.50	PÚA-PÚA
13.0	2.32	0.091	D57	1.00	
			D63	1.25	
			D69	1.50	PÚA-PÚA

PTR

DIMENSIONES Y PROPIEDADES DEL TUBO CUADRADO Y RECTANGULAR														
Dimensiones exteriores	Espesor t.		Calibre	Color	Peso		Área	Momento de Inercia		Módulo de selección		Radio de giro		Constante de torsión
	D x B	Pug			mm.	Kg/m		Kg/pza	I _{xx}	I _{yy}	S _{xx}	S _{yy}	R _{xx}	
Pul-mm							Cm ²	Cm ⁴	Cm ⁴	Cm ³	Cm ³	cm	cm	cm ⁴
1 x 1 25 x 25	0.0750	1.91	14	Azul	1.33	2.11	1.70	1.52	1.52	1.19	0.95	0.95	0.95	2.54
	0.095	2.41	13	Verde	1.62	9.88	2.07	1.75	1.75	1.38	1.39	0.92	0.92	3.01
	0.133	3.38	10	Rojo	2.10	12.81	2.68	2.04	2.04	1.60	1.60	0.87	0.87	3.65
1 1/4 x 1 1/4 32 x 32	0.075	1.91	14	Azul	1.71	10.43	2.18	3.17	3.17	1.99	1.99	1.2	1.2	5.20
1 1/2 x 1 1/2 38 x 38	0.075	1.91	14	Azul	2.09	12.75	2.66	5.71	5.71	3.00	3.00	1.46	1.46	9.25
	0.110	2.79	12	Blanco	2.94	17.93	3.74	7.56	7.56	3.97	3.97	1.42	1.42	12.64
	0.125	3.18	11	Verde	3.27	19.95	4.18	8.21	8.21	4.31	4.31	1.40	1.40	13.91
	0.154	3.91	9	Rojo	3.89	23.73	4.96	9.24	9.24	4.85	4.85	1.37	1.37	16.03
2 x 2 51 x 51	0.075	1.91	14	Azul	2.85	17.39	3.63	14.28	14.28	5.62	5.62	1.98	1.98	22.71
	0.110	2.79	12	Blanco	4.05	24.71	5.16	19.43	19.43	7.65	7.65	1.94	1.94	31.70
	0.125	3.18	11	Verde	4.54	27.68	5.79	21.37	21.37	8.41	8.41	1.92	1.92	35.22
	0.156	3.96	9	Rojo	5.50	33.55	7.02	24.88	24.88	9.80	9.80	1.88	1.88	41.88
2 1/2 x 2 1/2 64 x 64	0.125	3.18	11	Blanco	5.80	35.38	7.40	44.08	44.08	13.88	13.88	2.44	2.44	71.38
	0.141	3.58	9	Verde	6.47	39.47	8.25	48.36	48.36	15.23	15.23	2.42	2.42	79.03
	0.188	4.78	6	Rojo	8.34	5.87	10.63	59.32	59.32	18.68	18.68	2.36	2.36	99.46
3 x 3 76 x 76	0.125	3.18	11	Blanco	7.07	43.13	9.01	78.93	78.93	20.72	20.72	2.96	2.96	126.27
	0.156	3.96	9	Verde	8.66	52.83	11.05	94.24	94.24	24.73	24.73	2.92	2.92	153.04
	0.188	4.78	6	Rojo	10.24	62.46	13.06	108.40	108.40	28.45	28.45	2.88	2.88	178.70
3 1/2 x 3 1/2 89 x 89	0.125	3.18	11	Blanco	8.33	50.81	10.63	128.54	128.54	28.95	28.95	3.48	3.48	203.82
	0.156	3.96	9	Verde	10.24	62.46	13.06	154.51	154.51	34.76	34.76	3.44	3.44	248.22
	0.188	4.78	6	Rojo	12.14	74.05	15.48	40.27	40.27	40.27	40.27	3.40	3.40	291.41
	0.250	6.35	2	Azul	15.63	95.34	19.93	220.16	220.16	49.53	49.53	3.32	3.32	367.28
4 x 4 102 x 102	0.125	3.18	11	Blanco	9.60	58.56	12.24	195.49	195.49	38.48	38.48	4.00	4.00	307.91
	0.156	3.96	9	Verde	11.82	72.10	15.07	236.16	236.16	46.49	46.49	3.96	3.96	376.31
	0.188	4.78	6	Rojo	14.04	85.64	17.91	275.07	275.07	54.15	54.15	3.92	3.92	443.48
	0.250	6.35	2	Azul	18.16	110.78	23.16	341.94	341.94	67.31	67.31	3.84	3.84	563.55
4 1/2 x 4 1/2 114 x 114	0.125	3.18	11	Blanco	10.86	66.25	13.85	282.40	282.40	49.41	49.41	4.51	4.51	442.46
	0.156	3.96	9	Verde	13.40	81.71	17.08	342.44	342.44	59.92	59.92	4.48	4.48	542.15
	0.188	4.78	6	Rojo	15.94	97.23	20.33	400.48	400.48	70.07	70.07	4.44	4.44	640.77
	0.250	6.35	2	Azul	20.69	126.21	26.38	501.90	501.90	87.82	87.82	4.36	4.36	818.19
5 x 5 127 x 127	0.125	3.18	11	Blanco	12.13	73.99	15.47	391.86	391.86	61.71	61.71	5.03	5.03	611.36
	0.156	3.96	9	Verde	14.98	91.38	19.10	476.61	476.61	75.06	75.06	5.00	5.00	750.64
	0.188	4.78	6	Rojo	17.85	108.89	22.76	559.16	559.16	88.06	88.06	4.96	4.96	889.14
	0.250	6.35	2	Azul	23.22	141.64	29.61	705.26	705.26	111.06	111.06	4.88	4.88	1142.00
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
	0.156	3.96	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	117.41	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	6.56	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	237.2
	0.188	4.78	6	Rojo	12.14	74.05	15.48	218.17	139.38	42.95	36.58	3.75	3.00	278.2
	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
5 x 3 127 x 76	0.125	3.18	11	Blanco	9.60	58.56	12.24	268.18	121.94	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
	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	23.15	470.26	210.74	74.06	55.19	4.51	3.01	485.61
6 x 3 152 x 76	0.125	3.18	11	Blanco	10.86	66.25	13.85	419.43	413.48	55.04	37.66	5.50	3.22	344.40
	0.156	3.96	9	Verde	13.40	81.74	17.08	508.85	173.10	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	494.67
	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	1042.5