

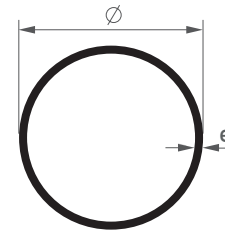
NORMALIZADOS STANDARDS

STRUGAL

ÍNDICE

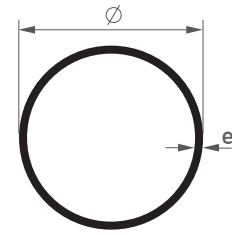
NORMALIZADOS STANDARDS

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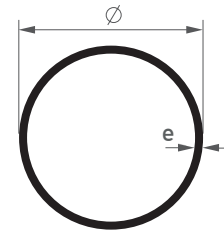
Ref Ref	\varnothing [mm] \varnothing [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /m] Surface [m ² /m]		Ix [cm ⁴]	Iy [cm ⁴]
				TOTAL	EXTERIOR		
1098 *	12	1.15	0.106	0.068	0.038	0.06	0.06
1074 *	14	1.15	0.125	0.081	0.044	0.09	0.09
1115 *	14.8	1.4	0.160	0.085	0.047	0.13	0.13
1050	16	1.5	0.184	0.091	0.050	0.18	0.18
1002 *	17	1.3	0.177	0.099	0.054	0.20	0.20
1060 *	17.7	1.1	0.155	0.105	0.056	0.20	0.20
1058 *	17.8	1.45	0.202	0.103	0.056	0.25	0.25
1059*	17.8	2.0	0.267	0.099	0.056	0.31	0.31
1001*	18	1.1	0.157	0.107	0.057	0.21	0.21
1003	20	1.5	0.235	0.116	0.063	0.38	0.38
1000*	22.5	1.1	0.200	0.135	0.071	0.42	0.42
1070*	22.5	1.5	0.271	0.132	0.071	0.55	0.55
1081*	23	1.1	0.225	0.139	0.073	0.51	0.51
2877*	24.9	1.3	0.262	0.148	0.078	0.681	0.681

* Consultar pedido mínimo * Consulter commande minimale



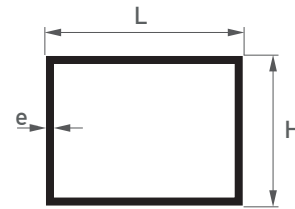
Ref Ref	\varnothing [mm] \varnothing [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /m] Surface [m ² /m]		Ix [cm ⁴]	Iy [cm ⁴]
				TOTAL	EXTERIOR		
11609*	25	1.2	0.243	0.150	0.079	0.64	0.64
1004	25	1.4	0.281	0.148	0.078	0.73	0.73
1005*	25	2.25	0.435	0.142	0.078	1.05	1.05
1092*	27	1.35	0.292	0.160	0.085	0.90	0.90
1006*	28	3.75	0.772	0.152	0.088	2.15	2.15
1083*	28.5	1.05	0.246	0.172	0.100	0.85	0.85
2879*	29.85	1.5	0.363	0.179	0.094	1.367	1.367
1080	30	1.5	0.363	0.180	0.095	1.36	1.36
1007*	30	2.0	0.475	0.76	0.095	1.73	1.73
1084*	31.8	1.05	0.274	0.193	0.103	1.20	1.20
1008*	34	2.0	0.543	0.201	0.107	2.58	2.58
1065*	35	1.5	0.427	0.211	0.110	2.22	2.22
4410*	38.3	1.4	0.442	0.232	0.121	2.77	2.77
1009	40	1.3	0.427	0.243	0.126	2.96	2.96
1054*	40	1.9	0.613	0.241	0.127	4.14	4.14

* Consular pedido mínimo * Consulter commande minimale



Ref Ref	\varnothing [mm] \varnothing [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		Ix [cm ⁴]	Iy [cm ⁴]
				TOTAL	EXTERIOR		
1010*	40	2.3	0.737	0.238	0.127	4.86	4.86
1078*	40	2.5	0.797	0.235	0.125	5.20	5.20
1011*	40	3.5	1.085	0.231	0.127	6.74	6.74
1055	50	1.4	0.577	0.305	0.157	6.32	6.32
1093*	50	2.0	0.819	0.302	0.157	8.70	8.70
1012	65	1.4	0.756	0.399	0.204	0.88	0.88
11960	80	1.5	1.003	0.494	0.252	28.50	28.50
1077*	96	3.0	2.374	0.585	0.302	12.67	12.67
1013	100	1.8	1.498	0.617	0.314	66.96	66.96

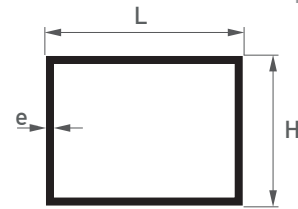
* Consultar pedido mínimo * Consulter commande minimale



Ref Ref	L [mm] L [mm]	H [mm] H [mm]	E [mm] E [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		Ix [cm ⁴]	Iy [cm ⁴]
					TOTAL	EXTERIOR		
1015	20	10	1.3	0.192	0.110	0.060	0.10	0.34
2878*	25	15	1.4	0.282	0.148	0.079	0.366	0.839
1016	30	15	1.3	0.297	0.170	0.090	0.41	1.24
1068	30	20	1.3	0.333	0.189	0.099	0.80	1.51
1069*	30	25	1.3	0.368	0.209	0.109	1.34	1.78
1017	40	20	1.3	0.405	0.230	0.120	1.02	3.08
[1] 10870	40	20	1.5 / 2.5	0.621	0.250	0.120	1.24	5.17
10627*	40	20	2.0	0.608	0.223	0.120	1.44	4.44
1100	50	20	1.3	0.474	0.270	0.140	1.24	5.34
4421	50	25	1.3	0.513	0.289	0.150	2.07	6.15
1102*	50	30	1.2	0.542	0.309	0.160	3.12	6.92
1018	60	20	1.4	0.585	0.308	0.160	1.57	9.16
1110	60	30	1.5	0.707	0.347	0.179	4.15	12.31
1019	60	40	1.5	0.785	0.388	0.200	7.93	14.88
31019*	60	40	2.5/3.0	1.382	0.377	0.199	12.70	26.05

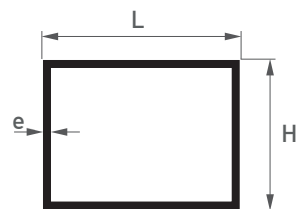
* Consultar pedido mínimo * Consulter commande minimale

*[1] Rectángulo con porta-tornillos



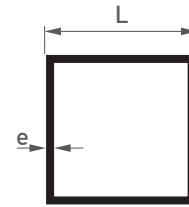
Ref Ref	L [mm] L [mm]	H [mm] H [mm]	E [mm] E [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		Ix [cm ⁴]	Iy [cm ⁴]
					TOTAL	EXTERIOR		
1020	70	20	1.5	0.705	0.348	0.180	1.92	14.53
1082	80	20	1.5	0.789	0.387	0.199	2.17	20.50
1021	80	40	1.5	0.952	0.467	0.239	10.16	29.87
1071	80.2	42	2.5	1.555	0.458	0.238	15.84	47.48
1067*	82	48	3.5	2.331	0.490	0.258	32.45	76.26
1022	100	40	1.85	1.366	0.543	0.279	14.91	62.97
1023	100	50	1.6	1.271	0.583	0.298	21.43	62.71
11920*	100	50	4.0	3.079	0.568	0.300	47.36	144.11
1066*	110	48	3.5	2.862	0.602	0.314	42.17	158.79
1024	120	40	1.85	1.564	0.623	0.318	17.61	99.85
5969*	120	40	2.9	2.423	0.616	0.319	25.90	151.23
1025	140	25	2.2	1.913	0.644	0.330	8.34	143.23
5970*	140	40	3	2.830	0.695	0.359	30,74	232.52
1105*	150	60	2.15	2.394	0.821	0.418	60.11	251.36
11520*	200	20	2.0	2.342	0.864	0.440	6.64	329.18

* Consultar pedido mínimo * Consulter commande minimale



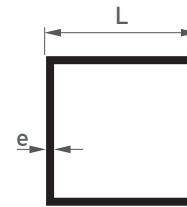
Ref Ref	L [mm] L [mm]	H [mm] H [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml] TOTAL EXTERIOR	Ix [cm ⁴]	Iy [cm ⁴]
11610*	250	50	4.0	6.331	1.167 0.599	110.95	1548.50

* Consultar pedido mínimo * Consulter commande minimale



Ref Ref	L [mm] L [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		Ix [cm ⁴]	Iy [cm ⁴]
				TOTAL	EXTERIOR		
1103*	15.6	1.3	0.205	0.118	0.064	0.28	0.28
1026	16	1.3	0.206	0.116	0.063	0.27	0.27
1027	20	1.25	0.255	0.150	0.080	0.55	0.55
1028	25	1.3	0.332	0.190	0.100	1.15	1.15
1029	30	1.3	0.402	0.230	0.120	2.05	2.05
1107	35	1.35	0.493	0.269	0.140	3.43	3.43
1030	40	1.3	0.543	0.310	0.160	5.02	5.02
1106*	40	1.5	0.626	0.308	0.159	5.71	5.71
10626*	40	2.0	0.824	0.303	0.160	7.33	7.33
1031*	40	2.25	0.918	0.302	0.160	8.10	8.10
1056	40	3.0	1.204	0.296	0.160	10.19	10.19
1109*	50	2.0	1.040	0.383	0.199	14.75	14.75
1072*	51	2.0	1.063	0.391	0.203	15.70	15.70
1033	60	1.6	1.010	0.467	0.240	21.23	21.23
1787*	60	2.65	1.602	0.446	0.231	31.93	31.93

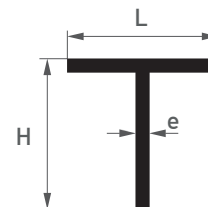
* Consultar pedido mínimo * Consulter commande minimale



Ref Ref	L [mm] L [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		I _x [cm ⁴]	I _y [cm ⁴]
				TOTAL	EXTERIOR		
1096	70	1.5	1.114	0.546	0.279	32.13	31.13
1097	80	1.6	1.360	0.626	0.319	51.38	51.38
1119*	80	2.0	1.692	0.624	0.320	63.26	63.26
10347*	80	6.0	4.813	0.592	0.320	163.10	163.10
1034	100	2.0	2.117	0.784	0.400	125.54	125.54

* Consular pedido mínimo * Consulter commande minimale

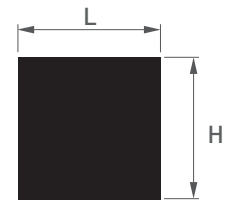
Perfil "T"
Profil "T"



Ref Ref	L [mm] L [mm]	H [mm] H [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		I _x [cm ⁴]	I _y [cm ⁴]
					TOTAL	EXTERIOR		
1051	20	20	1.3	0.135	0.080	0.080	0.19	0.085
1052	30	30	1.3	0.205	0.120	0.120	0.68	0.29
10547*	94	40.2	2.0 / 1.8	0.669	0.286	0.286	2.83	13.12
10570*	94	62	1.8	0.775	0.329	0.329	9.68	13.13
10971*	100	50	2.5 / 2.0	0.935	0.300	0.300	6.09	20.82

* Consular pedido mínimo * Consulter commande minimale

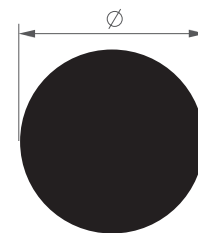
Macizos cuadrados
Massifs carrés



Ref Ref	L [mm] L [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		lx [cm ⁴]	ly [cm ⁴]
			TOTAL	EXTERIOR		
1821*	13 x 13	0.458	0.052	0.052	0.24	0.24
1617*	25 x 25	1.694	0.100	0.100	3.25	3.25

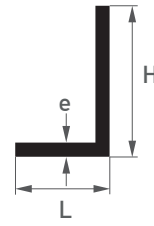
* Consular pedido mínimo * Consulter commande minimale

Macizos redondos
Massifs ronds



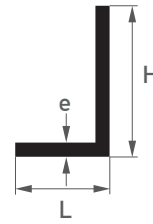
Ref Ref	Ø [mm] Ø [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		lx [cm ⁴]	ly [cm ⁴]
			TOTAL	EXTERIOR		
1014*	Diámetro 8	0.135	0.025	0.025	0.02	0.02
1822*	Diámetro 12	0.306	0.038	0.038	0.10	0.10
10632*	Diámetro 35	2.610	0.110	0.110	7.37	3.37
1118	Diámetro 55	6.439	0.173	0.173	44.92	44.92
1086*	Diámetro 60	7.661	0.189	0.189	63.62	63.62

* Consular pedido mínimo * Consulter commande minimale



Ref Ref	L [mm] L [mm]	H [mm] H [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		Ix [cm ⁴]	Iy [cm ⁴]
					TOTAL	EXTERIOR		
1035	15	15	1.25	0.095	0.059	0.059	0.076	0.076
1036	10	20	1.3	0.103	0.060	0.060	0.16	0.027
1037	20	20	1.3	0.135	0.080	0.080	0.19	0.19
1038	25	25	1.3	0.170	0.100	0.100	0.39	0.39
1039	30	30	1.4	0.221	0.120	0.130	0.73	0.73
1040	20	40	1.3	0.205	0.120	0.120	1.30	0.23
11535*	20	40	2	0.315	0.120	0.120	1.96	0.35
1041	40	40	1.25	0.269	0.160	0.160	1.58	1.58
11522*	40	40	2.0	0.423	0.160	0.160	2.47	2.47
10704*	40	40	4.0	0.824	0.158	0.158	4.57	4.57
1095	40	60	1.4	0.371	0.199	0.199	5.32	1.98
11523*	40	60	2.0	0.532	0.200	0.200	7.51	2.78
1057	40	80	1.5	0.483	0.239	0.239	12.31	2.25
10548*	42	78	2.8	0.889	0.239	0.239	21.39	4.63

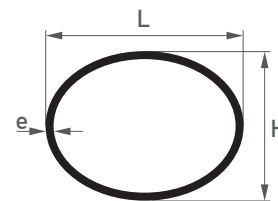
* Consular pedido mínimo * Consulter commande minimale



Ref Ref	L [mm] L [mm]	H [mm] H [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		I _x [cm ⁴]	I _y [cm ⁴]
					TOTAL	EXTERIOR		
10805*	42	110	2.8	1.133	0.304	0.304	54.26	4.99
10843	50	50	5.0	1.288	0.200	0.200	11.24	11.24
1042	50	50	1.5	0.400	0.200	0.200	3.73	3.73
10972*	50	50	2.0	0.532	0.200	0.200	4.90	4.90
10973*	50	80	3.5	1.201	0.260	0.260	30.00	9.39
1094	60	60	1.4	0.450	0.239	0.239	6.06	6.06

* Consular pedido mínimo * Consulter commande minimale

Ovalados Ovales



Ref Ref	L [mm] L [mm]	H [mm] H [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		I _x [cm ⁴]	I _y [cm ⁴]
					TOTAL	EXTERIOR		
2954*	31.2	21.2	1.4	0.315	0.165	0.087	0.70	1.22
2953*	34.2	24.2	1.4	0.350	0.184	0.097	1.02	1.66
4251*	37.7	27.7	1.5	0.418	0.205	0.108	1.58	2.43

* Consular pedido mínimo * Consulter commande minimale



Ref Ref	L [mm] L [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		I _x [cm ⁴]	I _y [cm ⁴]
				TOTAL	EXTERIOR		
1061*	14.8	3.0	0.121	0.035	0.035	0.003	0.08
1073*	15	4.7	0.200	0.038	0.038	0.015	0.14
1043	19.8	1.7	0.092	0.043	0.043	0.001	0.11
1044	20	3.0	0.162	0.046	0.046	0.005	0.20
1099	20	4.0	0.217	0.047	0.047	0.01	0.26
1046*	25	2.0	0.140	0.140	0.054	0.02	0.26
28*	25	2.1	0.140	0.052	0.052	0.02	0.26
1117**	25	3.0	0.198	0.054	0.054	0.005	0.36
1045*	25	10.0	0.675	0.070	0.070	0.21	1.30
1047	30	4.0	0.324	0.068	0.068	0.02	0.90
4503*	40	1.8	0.196	0.082	0.082	0.002	0.93
1048	40	3.0	0.324	0.086	0.086	0.009	1.60
1085*	40	3.5	0.379	0.087	0.087	0.014	1.87
1120*	40	4.0	0.434	0.088	0.088	0.021	2.13

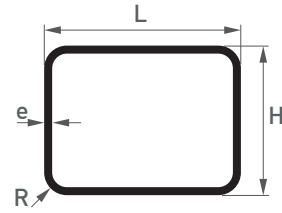
* Cantos redondeados (1117, 28, 4503)

* Consulnar pedido mínimo * Consulter commande minimale



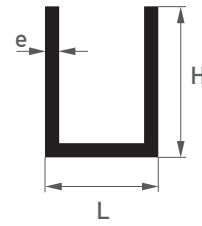
Ref Ref	L [mm] L [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		I _x [cm ⁴]	I _y [cm ⁴]
				TOTAL	EXTERIOR		
10933*	50	3.0	0.407	0.106	0.106	0.01	3.12
1049	50	5.0	0.675	0.110	0.110	0.05	5.20
10934*	100	3.0	0.813	0.206	0.206	0.02	24.98
10935*	100	5.0	1.355	0.210	0.210	0.10	41.65
11938*	125	20	6.775	0.290	0.290	8.33	325.49
10941*	150	3.0	1.220	0.306	0.306	0.03	84.33
10942*	150	5.0	2.033	0.310	0.310	0.15	140.58
11530*	150	10.0	4.065	0.320	0.320	1.25	281.21
12200*	170	24	11.057	0.388	0.388	19.58	982.45

* Consular pedido mínimo * Consulter commande minimale



Ref Ref	L [mm] L [mm]	H [mm] H [mm]	R [mm] R [mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /m] Surface [m ² /m]		Ix [cm ⁴]	Iy [cm ⁴]
						TOTAL	EXTERIOR		
11542*	33	20	5	1.0	0.258	0.189	0.098	0.61	1.30
1113*	35	35	5.85	1.8	0.606	0.248	0.130	3.94	3.94
2466*	38	22.52	7	1.3	0.372	0.21	0.109	1.10	2.40
11543*	50	20	5	1.0	0.350	0.257	0.132	0.92	3.75
2421*	51	51	10	2.0	0.978	0.361	0.188	13.64	13.64
2648*	60	35	10	1.5	0.683	0.336	0.172	5.09	11.37
1101*	60	25	2.5	1.35 / 2.4	0.721	0.318	0.165	0.16	0.83
1108*	65	25	2.5	1.35	0.628	0.343	0.175	2.64	11.84
2647*	70	40	10	1.75	0.935	0.394	0.202	9.23	21.41
1088*	100	25	2.5	1.35	0.886	0.483	0.246	3.97	36.10

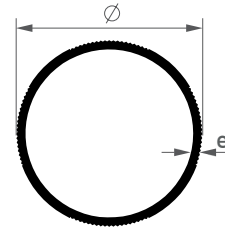
* Consultar pedido mínimo * Consulter commande minimale



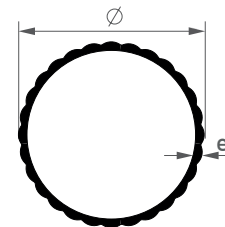
Ref Ref	L [mm] L [mm]	H[mm] H[mm]	e [mm] e [mm]	Peso [kg/ml] Poids [kg/ml]	Superficie [m ² /ml] Surface [m ² /ml]		Ix [cm ⁴]	Iy [cm ⁴]
					TOTAL	EXTERIOR		
1111*	12.6	10	1.3	0.103	0.113	0.113	0.04	0.09
1469	13.2	10	1.3	0.106	0.063	0.063	0.04	0.10
10106*	18	20	1.0	0.152	0.114	0.114	0.23	0.32
1114*	19	32	2.0	0.428	0.160	0.160	1.63	0.98
10970*	20	10	1.5	0.152	0.077	0.077	0.05	0.32
1053	20	20	1.3	0.200	0.116	0.116	0.31	0.51
[1] 1112*	22	15	1.3	0.165	0.101	0.101	0.14	0.48
11894*	29.3	28	2.0	0.442	0.166	0.166	1.32	2,35
1076*	30	15	1.4	0.217	0.116	0.116	0.17	1.09
1487*	35	16	1.2	0.209	0.130	0.130	0.18	1.42

[1] Base de 22 mm no plana

* Consular pedido mínimo * Consulter commande minimale



Ref Ref	Ø [mm] Ø [mm]	e [mm] e [mm]	Peso kg/ml Poids kg/ml	Superficie [m ² /ml] Surface [m ² /ml]		Ix [cm ⁴]	Iy [cm ⁴]
				TOTAL	EXTERIOR		
4107*	22	1.1	0.187	0.139	0.077	0.38	0.38
4108*	22.8	1.1	0.220	0.151	0.079	0.58	0.58
4250*	29	1.25	0.290	0.176	0.093	1.03	1.03



Ref Ref	Ø [mm] Ø [mm]	e [mm] e [mm]	Peso kg/ml Poids kg/ml	Superficie [m ² /ml] Surface [m ² /ml]		Ix [cm ⁴]	Iy [cm ⁴]
				TOTAL	EXTERIOR		
2384*	16	1.15	0.125	0.094	0.05	0.13	0.13
2385*	25	1.15	0.203	0.152	0.08	0.53	0.53

* Consultar pedido mínimo * Consulter commande minimale

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