



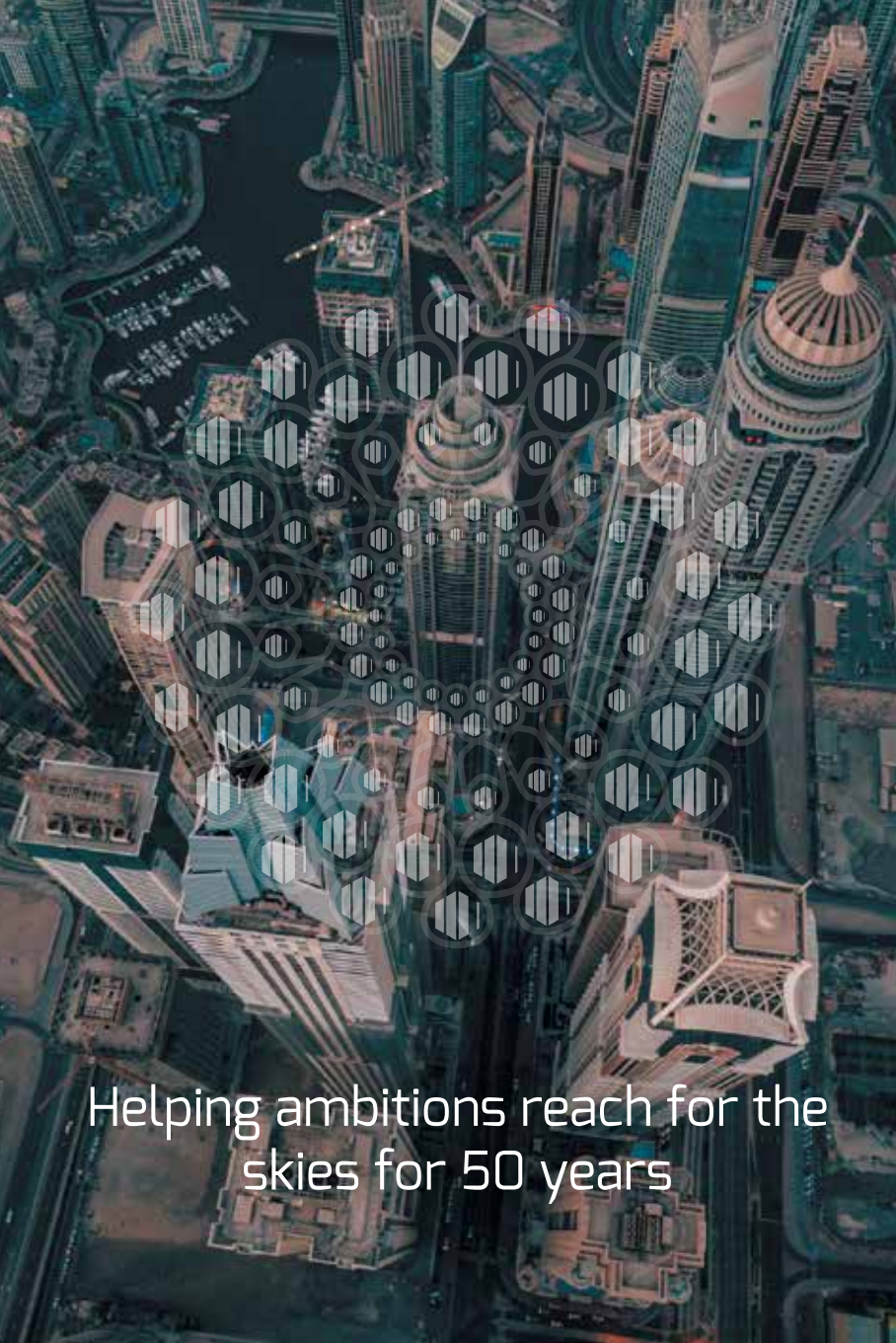
LONGS
FLATS
TUBULARS
VALUE ADDED STEEL PRODUCTS

Celebrating Pride, Forged with
Passion as Strong as Steel

THE STRUCTURAL STEEL
SPECIFICATION HANDBOOK



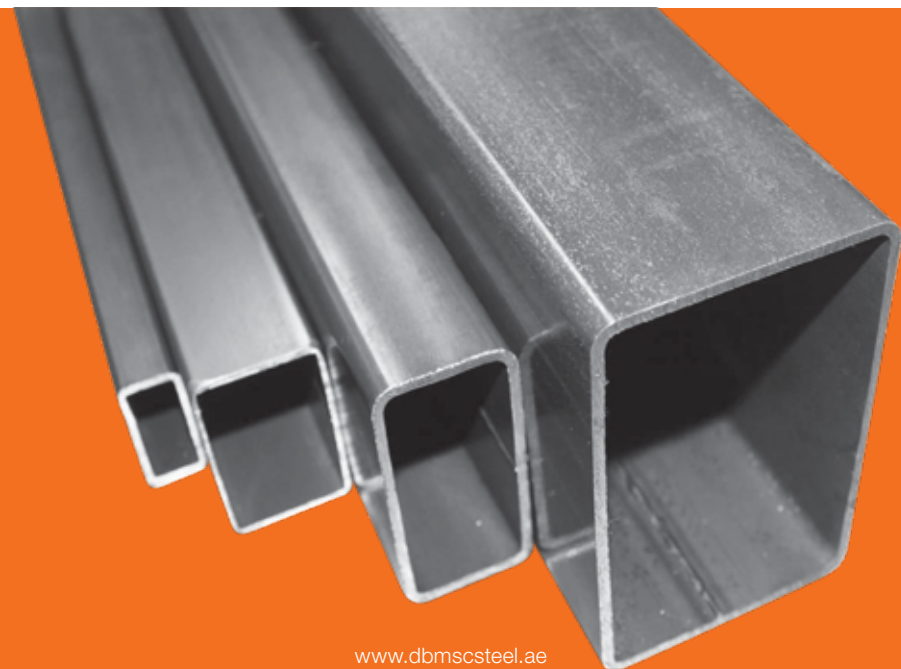
DBMSC/QMP07/R6



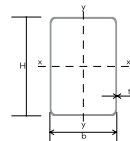
Helping ambitions reach for the
skies for 50 years



MILD STEEL RECTANGULAR HOLLOW SECTIONS



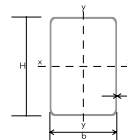
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{p1xx} cm ³	W _{p1yy} cm ³	I _t cm ⁴	C _t cm ³	
50 x 30	2.5	2.89	3.68	11.8	5.22	1.79	1.19	4.73	3.48	5.92	4.11	11.7	5.73	0.154
	3.0	3.41	4.34	13.6	5.94	1.77	1.17	5.43	3.96	6.88	4.76	13.5	6.51	0.152
	3.2	3.61	4.60	14.2	6.20	1.76	1.16	5.68	4.13	7.25	5.00	14.2	6.80	0.152
	4.0	4.39	5.59	16.5	7.08	1.72	1.13	6.60	4.72	8.59	5.88	16.6	7.77	0.150
	4.9	5.20	6.62	18.5	7.82	1.67	1.09	7.41	5.21	9.90	6.72	18.8	8.59	0.147
	5.0	5.28	6.73	18.7	7.89	1.67	1.08	7.49	5.26	10.00	6.80	19.0	8.67	0.147
60 x 40	2.5	3.68	4.68	22.8	12.1	2.21	1.60	7.61	6.03	9.32	7.02	25.1	9.73	0.194
	3.0	4.35	5.54	26.5	13.9	2.18	1.58	8.82	6.95	10.9	8.19	29.2	11.20	0.192
	3.2	4.62	5.88	27.8	14.6	2.18	1.57	9.27	7.29	11.5	8.64	30.8	11.70	0.192
	4.0	5.64	7.19	32.8	17.0	2.14	1.54	10.9	8.52	13.8	10.3	36.7	13.70	0.190
	4.9	6.74	8.58	37.6	19.3	2.09	1.50	12.5	9.66	16.2	12.0	42.4	15.50	0.187
	5.0	6.85	8.73	38.1	19.5	2.09	1.50	12.7	9.77	16.4	12.2	43.0	15.70	0.187
	6.0	7.99	10.2	42.3	21.4	2.04	1.45	14.1	10.7	18.6	13.7	48.2	17.30	0.185
	6.3	8.31	10.6	43.4	21.9	2.02	1.44	14.5	11.0	19.2	14.2	49.5	17.60	0.184
80 x 40	3.0	5.29	6.74	54.2	18.0	2.84	1.63	13.6	9.00	17.1	10.4	43.8	15.30	0.232
	3.2	5.62	7.16	57.2	18.9	2.83	1.63	14.3	9.46	18.0	11.0	46.2	16.10	0.232
	4.0	6.90	8.79	68.2	22.2	2.79	1.59	17.1	11.1	21.8	13.2	55.2	18.90	0.230



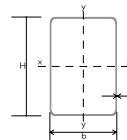
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	r _{xx} cm	r _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
80 x 40	4.9	8.28	10.5	79.2	25.4	2.74	1.55	19.8	12.7	25.7	15.4	64.1	21.6	0.227
	5.0	8.42	10.7	80.3	25.7	2.74	1.55	20.1	12.9	26.1	15.7	65.1	21.9	0.227
	6.0	9.87	12.6	90.5	28.5	2.68	1.50	22.6	14.2	30.0	17.8	73.4	24.2	0.225
	6.3	10.3	13.1	93.3	29.2	2.67	1.49	23.3	14.6	31.1	18.4	75.6	24.8	0.224
	8.0	12.5	16	106	32.1	2.58	1.42	26.5	16.1	36.5	21.2	85.8	27.4	0.219
90 x 50	3.0	6.24	7.94	84.4	33.5	3.26	2.05	18.8	13.4	23.2	15.3	76.5	22.4	0.272
	3.2	6.63	8.44	89.1	35.3	3.25	2.04	19.8	14.1	24.6	16.2	80.9	23.6	0.272
	3.6	7.40	9.42	98.3	38.7	3.23	2.03	21.8	15.5	27.2	18.0	89.4	25.9	0.271
	4.0	8.15	10.39	107	41.9	3.21	2.01	23.8	16.8	29.8	19.6	97.5	28.0	0.270
	4.9	9.81	12.5	125	48.5	3.17	1.97	27.9	19.4	35.4	23.2	115	32.4	0.267
	5.0	9.99	12.73	127	49.2	3.16	1.97	28.3	19.7	36.0	23.5	116	32.9	0.267
	5.6	11.1	14.09	138	53.0	3.13	1.94	30.7	21.2	39.4	25.7	127	35.4	0.266
	6.0	11.8	14.97	145	55.4	3.11	1.92	32.2	22.1	41.6	27.0	133	37.0	0.265
	6.3	12.3	15.63	150	57.0	3.10	1.91	33.3	22.8	43.2	28.0	138	38.1	0.264
	7.1	13.6	17.32	162	60.9	3.06	1.88	36.0	24.4	47.2	30.5	149	40.7	0.262
8.0	15.0	19.15	174	64.6	3.01	1.84	38.6	25.8	51.4	32.9	160	43.2	0.259	
100 x 50	3.0	6.71	8.54	110	36.8	3.58	2.08	21.9	14.7	27.3	16.8	88.4	25.0	0.292



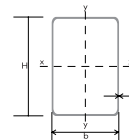
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
				Ixx cm ⁴	Iyy cm ⁴	ixx cm	iyx cm	Welxx cm ³	Welyy cm ³	Wplxx cm ³	Wplyy cm ³	It cm ⁴	Ct cm ³	
100 x 50	3.2	7.13	9.08	116	38.8	3.57	2.07	23.2	15.5	28.9	17.7	93.4	26.4	0.292
	3.6	7.96	10.14	128	42.6	3.55	2.05	25.6	17.0	32.1	19.6	103	29.0	0.291
	4.0	8.78	11.19	140	46.2	3.53	2.03	27.9	18.5	35.2	21.5	113	31.4	0.290
	4.9	10.6	13.48	164	53.5	3.49	1.99	32.8	21.4	41.9	25.4	133	36.4	0.287
	5.0	10.8	13.73	167	54.3	3.48	1.99	33.3	21.7	42.6	25.8	135	36.9	0.287
	6.0	12.7	16.17	190	61.2	3.43	1.95	38.1	24.5	49.4	29.7	154	41.6	0.285
	6.3	13.3	16.89	197	63.0	3.42	1.93	39.4	25.2	51.3	30.8	160	42.9	0.284
	7.1	14.7	18.74	214	67.5	3.38	1.90	42.7	27.0	56.3	33.5	173	46.0	0.282
8.0	16.3	20.75	230	71.7	3.33	1.86	46.0	28.7	61.4	36.3	186	48.9	0.279	
100 x 60	3.0	7.18	9.14	124	55.7	3.68	2.47	24.7	18.6	30.2	21.2	121	30.7	0.312
	3.2	7.63	9.72	131	58.8	3.67	2.46	26.2	19.6	32.0	22.4	129	32.4	0.312
	3.6	8.53	10.9	145	64.8	3.65	2.44	28.9	21.6	35.6	24.9	142	35.6	0.311
	4.0	9.41	12.0	158	70.5	3.63	2.43	31.6	23.5	39.1	27.3	156	38.7	0.310
	4.9	11.4	14.5	186	82.4	3.59	2.39	37.2	27.5	46.6	32.4	185	45.2	0.307
	5.0	11.6	14.7	189	83.6	3.58	2.38	37.8	27.9	47.4	32.9	188	45.9	0.307
	5.6	12.8	16.3	206	90.6	3.55	2.36	41.2	30.2	52.0	36.1	205	49.7	0.306
	6.0	13.6	17.4	217	95.0	3.53	2.34	43.4	31.7	55.1	38.1	216	52.1	0.305
6.3	14.2	18.1	225	98.1	3.52	2.33	45.0	32.7	57.3	39.5	224	53.8	0.304	



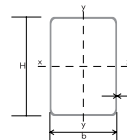
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ³ /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
100 x 60	7.1	15.8	20.2	244	106	3.48	2.29	48.8	35.3	62.9	43.2	245	58.0	0.302
	8.0	17.5	22.4	264	113	3.44	2.25	52.8	37.8	68.7	47.1	265	62.2	0.299
120 x 60	3.6	9.7	12.3	227	76.3	4.30	2.49	37.9	25.4	47.2	28.9	183	43.3	0.351
	4.0	10.7	13.6	249	83.1	4.28	2.47	41.5	27.7	51.9	31.7	201	47.1	0.350
	4.9	12.9	16.4	294	97.3	4.23	2.43	49.1	32.4	62.0	37.8	238	55.1	0.347
	5.0	13.1	16.7	299	98.8	4.23	2.43	49.9	32.9	63.1	38.4	242	56.0	0.347
	5.6	14.6	18.6	327	107	4.20	2.40	54.6	35.8	69.5	42.1	265	60.8	0.346
	6.0	15.5	19.8	345	113	4.18	2.39	57.5	37.5	73.6	44.5	279	63.8	0.345
	6.3	16.2	20.7	358	116	4.16	2.37	59.7	38.8	76.7	46.3	290	65.9	0.344
	7.1	18.1	23.0	391	126	4.12	2.34	65.2	41.9	84.4	50.8	317	71.3	0.342
8.0	20.1	25.6	425	135	4.08	2.30	70.8	45.0	92.7	55.4	344	76.6	0.339	
120 x 80	3.6	10.8	13.7	276	147	4.48	3.27	46.0	36.7	55.6	42.0	301	59.5	0.391
	4.0	11.9	15.2	303	161	4.46	3.25	50.4	40.2	61.2	46.1	330	65.0	0.390
	4.9	14.4	18.4	359	190	4.42	3.21	59.9	47.5	73.3	55.2	394	76.6	0.387
	5.0	14.7	18.7	365	193	4.42	3.21	60.9	48.2	74.6	56.1	401	77.9	0.387
	5.6	16.3	20.8	401	211	4.39	3.18	66.8	52.7	82.3	61.8	442	85.0	0.386
	6.0	17.4	22.2	423	222	4.37	3.17	70.6	55.6	87.3	65.5	468	89.6	0.385
	6.3	18.2	23.2	440	230	4.36	3.15	73.3	57.6	91.0	68.2	487	92.9	0.384



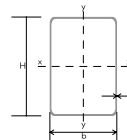
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
120 x 80	7.1	20.3	25.8	482	251	4.32	3.12	80.3	62.8	100	75.2	535	101	0.382
	8.0	22.6	28.8	525	273	4.27	3.08	87.5	68.1	111	82.6	587	110	0.379
	10.0	27.4	34.9	609	313	4.18	2.99	101.6	78.1	131	97.3	688	126	0.374
150 x 100	4.0	15.1	192	607	324	5.63	4.11	81.0	64.8	97.4	73.6	660	105	0.490
	4.9	18.3	23.3	726	386	5.58	4.07	96.8	77.1	117	88.5	792	125	0.487
	5.0	18.6	23.7	739	392	5.58	4.07	98.5	78.5	119	90.1	807	127	0.487
	5.6	20.7	26.4	814	431	5.55	4.04	109	86.2	132	100	891	139	0.486
	6.0	22.1	28.2	862	456	5.53	4.02	115	91.2	141	106	946	147	0.485
	6.3	23.1	29.5	898	474	5.52	4.01	120	94.8	147	110	986	153	0.484
	7.1	25.9	32.9	990	520	5.48	3.97	132	104	163	122	1091	168	0.482
	8.0	28.9	36.8	1087	569	5.44	3.94	145	114	180	135	1203	183	0.479
	8.8	31.5	40.1	1168	610	5.40	3.90	156	122	195	146	1298	196	0.477
	10.0	35.3	44.9	1282	665	5.34	3.85	171	133	216	161	1432	214	0.474
	12.0	41.4	52.7	1450	745	5.25	3.76	193	149	249	185	1633	240	0.469
	12.5	42.8	54.6	1488	763	5.22	3.74	198	153	256	190	1679	246	0.468
160 x 80	4.0	14.4	18.4	612	207	5.77	3.35	76.5	51.7	94.7	58.3	493	88	0.470
	4.9	17.5	22.3	731	245	5.73	3.32	91.4	61.3	114	69.9	590	104	0.467



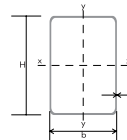
RECTANGULAR HOLLOW SECTIONS



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				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
160 x 80	5.0	17.8	22.7	744	249	5.72	3.31	93.0	62.3	116	71.1	600	106	0.467
	5.6	19.9	25.3	819	273	5.69	3.29	102	68.2	128	78.5	661	116	0.466
	6.0	21.2	27.0	868	288	5.67	3.27	108	72.0	136	83.3	701	122	0.465
	6.3	22.2	28.2	903	299	5.66	3.26	113	74.8	142	86.8	730	127	0.464
	7.1	24.7	31.5	994	327	5.62	3.22	124	81.7	158	95.9	804	139	0.462
	8.0	27.6	35.2	1091	356	5.57	3.18	136	89.0	175	106	883	151	0.459
	8.8	30.1	38.3	1172	379	5.53	3.15	147	94.9	189	114	949	161	0.457
	10.0	33.7	42.9	1284	411	5.47	3.10	161	103	209	125	1041	175	0.454
	12.0	39.5	50.3	1449	455	5.37	3.01	181	114	240	142	1175	194	0.449
	12.5	40.9	52.1	1485	465	5.34	2.99	186	116	247	146	1204	198	0.448
180 x 100	5.0	21.0	26.7	1153	460	6.57	4.15	128	92	157	104	1042	154	0.547
	5.6	23.4	29.8	1272	506	6.54	4.12	141	101	174	115	1152	169	0.546
	6.0	24.9	31.8	1350	536	6.52	4.11	150	107	186	123	1224	179	0.545
	6.3	26.1	33.3	1407	557	6.50	4.09	156	111	194	128	1277	186	0.544
	7.1	29.2	37.2	1555	613	6.47	4.06	173	123	215	142	1413	205	0.542
	8.0	32.6	41.6	1713	671	6.42	4.02	190	134	239	157	1560	224	0.539
	8.8	35.6	45.4	1847	720	6.38	3.98	205	144	259	170	1685	240	0.537
	10.0	40.0	50.9	2036	787	6.32	3.93	226	157	288	188	1862	263	0.534



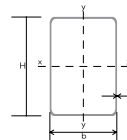
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
180 x 100	12.0	47.0	59.9	2320	886	6.22	3.85	258	177	333	216	2130	296	0.529
	12.5	48.7	62.1	2385	908	6.20	3.82	265	182	344	223	2191	303	0.528
200 x 100	5.0	22.6	28.7	1495	505	7.21	4.19	149	101	185	114	1204	172	0.587
	5.6	25.1	32.0	1652	556	7.18	4.17	165	111	205	126	1331	189	0.586
	6.0	26.8	34.2	1754	589	7.16	4.15	175	118	218	134	1414	200	0.585
	6.3	28.1	35.8	1829	613	7.15	4.14	183	123	228	140	1475	208	0.584
	7.1	31.4	40.0	2024	674	7.11	4.10	202	138	254	155	1634	229	0.582
	8.0	35.1	44.8	2234	739	7.06	4.06	223	148	282	172	1804	251	0.579
	8.8	38.4	48.9	2412	793	7.02	4.03	241	159	306	186	1950	270	0.577
	10.0	43.1	54.9	2664	869	6.96	3.98	266	174	341	206	2156	295	0.574
	12.0	50.8	64.7	3047	979	6.86	3.89	305	196	395	237	2469	333	0.569
	12.5	52.7	67.1	3136	1004	6.84	3.87	314	201	408	245	2541	341	0.568
	14.2	58.9	75.0	3416	1080	6.75	3.80	342	216	450	268	2770	368	0.563
16.0††	65.2	83.0	3678	1147	6.66	3.72	368	229	491	290	2982	391	0.559	
200 x 120	5.0	24.1	30.7	1685	762	7.40	4.98	168	127	205	144	1648	210	0.627
	5.6	26.9	34.2	1863	841	7.38	4.95	186	140	227	159	1826	231	0.626
	6.0	28.7	36.6	1980	892	7.36	4.94	198	149	242	169	1942	245	0.625



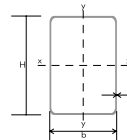
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m A _s m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	r _{xx} cm	r _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
200 x 120	6.3	30.1	38.3	2065	929	7.34	4.92	207	155	253	177	2028	255	0.624
	7.1	33.7	42.9	2288	1025	7.30	4.89	229	171	281	197	2252	282	0.622
	8.0	37.6	48.0	2529	1128	7.26	4.85	253	188	313	218	2495	310	0.619
	8.8	41.1	52.4	2734	1215	7.22	4.82	273	203	340	237	2703	334	0.617
	10.0	46.3	58.9	3026	1337	7.17	4.76	303	223	379	263	3001	367	0.614
	12.0	54.6	69.5	3472	1520	7.07	4.68	347	253	440	305	3461	417	0.609
	12.5	56.6	72.1	3576	1562	7.04	4.66	358	260	455	314	3569	428	0.608
	14.2	63.3	80.7	3907	1693	6.96	4.58	391	282	503	346	3915	464	0.603
	16.0	70.2	89.4	4221	1813	6.87	4.50	422	302	550	377	4247	497	0.599
200 x 150	5.0	26.5	33.7	1970	1265	7.64	6.12	197	169	234	192	2386	267	0.687
	5.6	29.5	37.6	2181	1398	7.61	6.10	218	186	260	213	2648	295	0.686
	6.0	31.5	40.2	2318	1485	7.60	6.08	232	198	277	227	2820	313	0.685
	6.3	33.0	42.1	2420	1549	7.58	6.07	242	207	289	237	2947	326	0.684
	7.1	37.0	47.1	2685	1715	7.55	6.03	268	229	322	264	3280	361	0.682
	8.0	41.4	52.8	2971	1894	7.50	5.99	297	253	359	294	3643	398	0.679
	8.8	45.3	57.7	3217	2047	7.47	5.96	322	273	390	319	3956	430	0.677
	10.0	51.0	64.9	3568	2264	7.41	5.91	357	302	436	356	4409	475	0.674
	12.0	60.2	76.7	4109	2596	7.32	5.82	411	346	508	414	5119	543	0.669
	12.5	62.5	79.6	4236	2673	7.30	5.80	424	356	525	428	5287	559	0.668
	14.2	70.0	89.2	4644	2919	7.22	5.72	464	389	582	473	5834	610	0.663
	16.0	77.7	99.0	5036	3152	7.13	5.64	504	420	638	518	6370	658	0.659



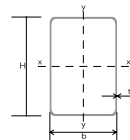
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
250 x 100	5.0	26.5	33.7	2610	618	8.80	4.28	209	124	263	138	1617	217	0.687
	5.6	29.5	37.6	2889	681	8.77	4.25	231	136	292	152	1789	239	0.686
	6.0	31.5	40.2	3072	721	8.74	4.24	246	144	311	162	1901	253	0.685
	6.3	33.0	42.1	3207	751	8.73	4.22	257	150	326	169	1983	264	0.684
	7.1	37.0	47.1	3559	827	8.69	4.19	285	165	363	188	2198	291	0.682
	8.0	41.4	52.8	3940	909	8.64	4.15	315	182	404	209	2430	319	0.679
	8.8	45.3	57.7	4266	977	8.60	4.12	341	195	439	226	2627	343	0.677
	10.0	51.0	64.9	4733	1072	8.54	4.06	379	214	491	251	2908	376	0.674
	12.0	60.2	76.7	5453	1213	8.43	3.98	436	293	572	290	3336	426	0.669
	12.5	62.5	79.6	5622	1245	8.41	3.96	450	249	592	299	3436	438	0.668
	14.2	70.0	89.2	6165	1344	8.31	3.88	493	269	655	329	3752	473	0.663
16.0	77.7	99.0	6686	1433	8.22	3.80	535	287	719	358	4050	505	0.659	
250 x 150	5.0	30.4	38.7	3360	1527	9.31	6.28	269	204	324	228	3278	337	0.787
	5.6	33.9	43.2	3726	1690	9.29	6.25	298	225	361	254	3640	373	0.786
	6.0	36.2	46.2	3965	1796	9.27	6.24	317	239	385	270	3877	396	0.785
	6.3	38.0	48.4	4143	1874	9.25	6.22	331	250	402	283	4054	413	0.784
	7.1	42.6	54.2	4606	2078	9.22	6.19	368	277	449	315	4515	457	0.782
	8.0	47.7	60.8	5111	2298	9.17	6.15	409	306	501	350	5021	506	0.779



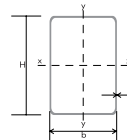
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plx} cm ³	W _{ply} cm ³	I _t cm ⁴	C _t cm ³	
250 x 150	8.8	52.2	66.5	5546	2486	9.13	6.12	444	331	545	381	5457	547	0.777
	10.0	58.8	74.9	6174	2755	9.08	6.06	494	367	611	426	6090	605	0.774
	12.0	69.6	88.1	7154	3168	8.98	5.98	572	422	715	497	7088	695	0.769
	12.5	72.3	92.1	7387	3265	8.96	5.96	591	435	740	514	7326	717	0.768
	14.2	81.1	103	8141	3576	8.87	5.88	651	477	823	570	8102	784	0.763
	16.0	90.3	115	8879	3873	8.79	5.80	710	516	906	625	8868	849	0.759
260 x 140	5.0	30.4	38.7	3532	1354	9.55	5.91	272	193	331	216	3078	326	0.787
	5.6	33.9	43.2	3916	1498	9.52	5.89	301	214	368	240	3417	360	0.786
	6.0	36.2	46.2	4168	1591	9.50	5.87	321	227	393	255	3638	383	0.785
	6.3	38.0	48.4	4355	1660	9.49	5.86	335	237	411	267	3803	399	0.784
	7.1	42.6	54.2	4842	1839	9.45	5.82	372	263	459	298	4234	442	0.782
	8.0	47.7	60.8	5373	2032	9.40	5.78	413	290	511	331	4704	488	0.779
	8.8	52.2	66.5	5831	2197	9.37	5.75	449	314	557	360	5110	527	0.777
	10.0	58.8	74.9	6490	2432	9.31	5.70	499	347	624	402	5698	584	0.774
	12.0	69.6	88.7	7522	2792	9.21	5.61	579	399	730	469	6621	670	0.769

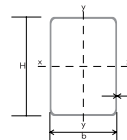


RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
260 x140	12.5	72.3	92.1	7767	2876	9.18	5.59	597	411	756	485	6841	690	0.768
	14.2	81.1	103	8560	3144	9.10	5.52	658	449	840	537	7555	754	0.763
	16.0	90.3	115	9337	3400	9.01	5.44	718	486	925	588	8257	815	0.759
300 x 100	5.0	30.4	38.7	4146	731	10.3	4.34	276	146	354	161	2040	262	0.787
	5.6	33.9	43.2	4598	806	10.3	4.32	307	161	393	179	2257	289	0.786
	6.0	36.2	46.2	4893	854	10.3	4.30	326	171	419	190	2399	306	0.785
	6.3	38.0	48.4	5111	890	10.3	4.29	341	178	439	199	2504	319	0.784
	7.1	42.6	54.2	5683	981	10.2	4.25	379	196	490	221	2775	352	0.782
	8.0	47.7	60.8	6305	1078	10.2	4.21	420	216	546	245	3069	387	0.779
	8.8	52.2	66.5	6841	1160	10.1	4.18	456	232	594	266	3319	416	0.777
	10.0	58.8	74.9	7613	1275	10.1	4.13	508	255	666	296	3676	458	0.774
	12.0	69.6	88.7	8818	1447	9.97	4.04	588	289	779	343	4223	520	0.769
	12.5	72.3	92.1	9103	1486	9.94	4.02	607	297	806	354	4350	534	0.768
	14.2	81.1	103	10028	1607	9.85	3.94	669	321	896	390	4755	578	0.763
16.0	90.3	115	10931	1719	9.75	3.87	729	344	986	425	5138	619	0.759	
300x 200	5.0	38.3	48.7	6322	3396	11.4	8.35	421	340	501	380	6824	552	0.987
	5.6	42.7	54.4	7025	3769	11.4	8.32	468	377	558	423	7593	612	0.986

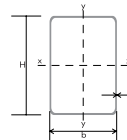
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ³ /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
300 x 200	6.0	45.7	58.2	7486	4013	11.3	8.31	499	401	596	451	8100	651	0.985
	6.3	47.9	61.0	7829	4193	11.3	8.29	522	419	624	472	8476	681	0.984
	7.1	53.7	68.4	8729	4667	11.3	8.26	582	467	698	528	9469	757	0.982
	8.0	60.3	76.8	9717	5184	11.3	8.22	648	518	779	589	10562	840	0.979
	8.8	66.0	84.1	10573	5631	11.2	8.18	705	563	851	643	11514	912	0.977
	10.0	74.5	64.9	11819	6278	11.2	8.13	788	628	956	721	12908	1015	0.974
	12.0	88.5	113	13797	7294	11.1	8.05	920	729	1124	847	15137	1178	0.969
	12.5	91.9	117	14273	7537	11.0	8.02	952	754	1165	877	15677	1217	0.968
	14.2	103	132	15832	8328	11.0	7.95	1055	833	1302	978	17457	1343	0.963
16.0	115	147	17390	9109	10.9	7.87	1159	911	1441	1080	19252	1468	0.959	
300 x 250	6.0	50.4	64.2	8783	6645	11.7	10.2	586	532	684	604	11609	824	1.08
	6.3	52.8	67.3	9188	6950	11.7	10.2	613	556	716	633	12155	862	1.08
	7.1	59.3	75.5	10252	7749	11.6	10.1	683	620	802	708	13595	960	1.08
	8.0	66.5	84.8	11422	8627	11.6	10.1	761	690	896	791	15187	1067	1.08
	8.8	72.9	92.9	12439	9388	11.6	10.1	829	751	979	864	16578	1160	1.08
	10.0	82.4	105	13923	10496	11.5	10.0	928	840	1101	971	18620	1295	1.07
	12.0	97.9	125	16287	12256	11.4	9.91	1086	981	1297	1143	21910	1509	1.07
	12.5	102	130	16857	12680	11.4	9.89	1124	1014	1345	1185	22711	1560	1.07



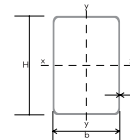
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{p1xx} cm ³	W _{p1yy} cm ³	I _t cm ⁴	C _t cm ³	
300 x 250	14.2	115	146	18734	14070	11.3	9.82	1249	1126	1505	1325	25365	1728	1.06
	16.0	128	163	20620	15460	11.2	9.74	1375	1237	1668	1467	28064	1896	1.06
350 x 150	6.0	45.7	58.2	9066	2418	12.5	6.45	518	322	645	357	6110	562	0.985
	6.3	47.9	61.0	9481	2525	12.5	6.43	542	337	676	373	6389	586	0.984
	7.1	53.7	68.4	10572	2803	12.4	6.40	604	374	756	416	7122	651	0.982
	8.0	60.3	76.8	11770	3105	12.4	6.36	673	414	844	464	7926	721	0.979
	8.8	66.0	84.1	12808	3364	12.3	6.33	732	449	922	506	8622	781	0.977
	10.0	74.5	94.9	14320	3737	12.3	6.27	818	498	1035	566	9633	867	0.974
	12.0	88.5	113	16720	4314	12.2	6.19	955	575	1218	663	11235	1000	0.969
	12.5	91.9	117	17297	4450	12.2	6.17	988	593	1263	686	11619	1032	0.968
	14.2	103	132	19189	4890	12.1	6.09	1097	652	1411	763	12875	1134	0.963
16.0	115	147	21079	5317	12.0	6.01	1205	709	1561	840	14124	1233	0.959	
350 x 250	6.0	55.1	70.2	12616	7538	13.4	10.4	721	603	852	677	14529	967	1.18
	6.3	57.8	73.6	13203	7885	13.4	10.4	754	631	892	709	15215	1011	1.18
	7.1	64.9	82.6	14747	8796	13.4	10.3	843	704	999	794	17024	1127	1.18
	8.0	72.8	92.8	16449	9798	13.3	10.3	940	784	1118	888	19027	1254	1.18
	8.8	79.8	102	17932	10668	13.3	10.2	1025	853	1222	970	20778	1365	1.18



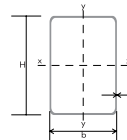
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ³ /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
350 x 250	10.0	90.2	115	20102	11937	13.2	10.2	1149	955	1375	1091	23354	1525	1.17
	12.0	107	137	23577	13957	13.1	10.1	1347	1117	1624	1286	27513	1781	1.17
	12.5	112	142	24419	14444	13.1	10.1	1395	1156	1685	1334	28526	1842	1.17
	14.2	126	160	27200	16046	13.0	10.0	1554	1284	1887	1492	31892	2044	1.16
	16.0	141	179	30011	17654	12.9	9.93	1715	1412	2095	1655	35325	2246	1.16
400 x 120	16.0	47.6	60.6	11272	1672	13.6	5.25	564	279	727	306	4824	505	1.02
	6.3	49.9	63.5	11790	1744	13.6	5.24	590	291	762	320	5039	527	1.02
	7.1	56.0	71.3	13150	1932	13.6	5.21	658	322	852	357	5603	584	1.02
	8.0	62.8	80.0	14644	2134	13.5	5.17	732	356	952	397	6218	645	1.02
	8.8	68.8	87.6	15940	2306	13.5	5.13	797	384	1040	432	6746	697	1.02
	10.0	77.7	98.9	17829	2551	13.4	5.08	891	425	1168	483	7509	771	1.01
	12.0	92.2	117	20830	2926	13.3	4.99	1042	488	1375	564	8698	889	1.01
	12.5	95.8	122	21552	3013	13.3	4.97	1078	502	1426	583	8980	911	1.01
	14.2	108	137	23923	3292	13.2	4.89	1196	549	1593	646	9893	996	1.00
	16.0	120	153	26295	3558	13.1	4.82	1315	593	1764	709	10783	1077	1.00
400 x 150	6.0	50.4	64.2	12669	2730	14.1	6.52	633	364	798	400	7262	645	1.08
	6.3	52.8	67.3	13255	2851	14.0	6.51	663	380	836	418	7595	673	1.08
	7.1	59.3	75.5	14794	3166	14.0	6.47	740	422	936	467	8467	748	1.08



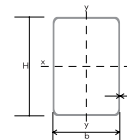
RECTANGULAR HOLLOW SECTIONS



Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m A _s m ² /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{p1xx} cm ³	W _{p1yy} cm ³	I _t cm ⁴	C _t cm ³	
400 x 150	8.0	66.5	84.8	16488	3509	13.9	6.43	824	468	1046	521	9424	828	1.08
	8.8	72.9	92.9	17961	3804	13.9	640	898	507	1143	568	10254	898	1.08
	10.0	82.4	105	20111	4227	13.8	6.35	1006	564	1285	636	11460	998	1.07
	12.0	97.9	125	23541	4887	13.7	6.26	1177	652	1515	745	13372	1153	1.07
	12.5	102	130	24369	5043	13.7	6.24	1218	672	1571	772	13831	1190	1.07
	14.2	115	146	27095	5547	13.6	6.16	1355	740	1758	859	15333	1309	1.06
	16.0	128	163	29836	6038	13.5	6.09	1492	805	1948	947	16829	1426	1.06
400 x 200	6.0	55.1	70.2	14998	5142	14.6	8.56	750	514	917	568	12049	877	1.18
	6.3	57.8	73.6	15696	5376	14.6	8.55	785	538	960	594	12612	917	1.18
	7.1	64.9	82.6	17535	5989	14.6	8.51	877	599	1075	665	14096	1021	1.18
	8.0	72.8	92.8	19562	6660	14.5	8.47	978	666	1203	743	15735	1135	1.18
	8.8	79.8	102	21328	7241	14.5	8.44	1066	724	1315	811	17164	1233	1.18
	10.0	90.2	115	23914	8084	14.4	8.39	1196	808	1480	911	19259	1376	1.17
	12.0	107	137	28059	9418	14.3	8.30	1403	942	1748	1072	22622	1602	1.17
	12.5	112	142	29063	9738	14.3	8.28	1453	974	1813	1111	23438	1656	1.17
	14.2	126	160	32381	10784	14.2	8.21	1619	1078	2032	1242	26137	1834	1.16
	16.0	141	179	35738	11824	14.1	8.13	1787	1182	2256	1374	28871	2010	1.16



RECTANGULAR HOLLOW SECTIONS



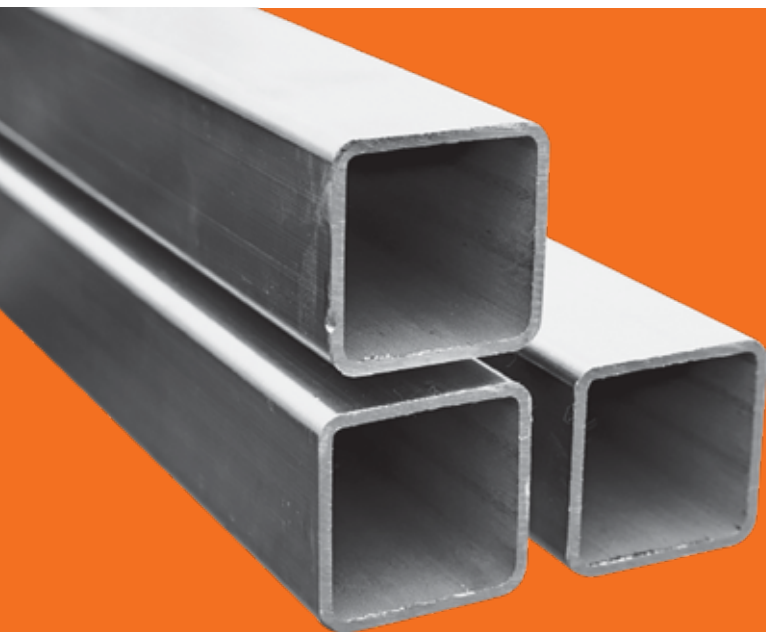
Size H x B mm	Thickness T mm	Mass M mm	Sectional Area A cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Sectional Area/m As m ³ /m
				I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	
400 x 300	8.0	85.4	109	25702	16540	15.4	12.3	1285	1103	1517	1247	31014	1749	1.38
	8.8	93.6	119	28063	18037	15.3	12.3	1403	1202	1659	1363	33908	1906	1.38
	10.0	106	135	31521	20233	15.3	12.2	1576	1349	1870	1536	38180	2135	1.37
	12.0	126	161	37094	23756	15.2	12.2	1855	1584	2213	1816	45113	2503	1.37
	12.5	131	167	38451	24611	15.2	12.1	1923	1641	2298	1884	46810	2592	1.37
	14.2	148	189	42954	27441	15.1	12.1	2148	1829	2579	2113	52472	2887	1.36
	16.0	166	211	47541	30309	15.0	12.0	2377	2021	2870	2349	58286	3184	1.36
450 x 250	8.0	85.4	109	30082	12142	16.6	10.6	1337	971	1622	1081	27083	1629	1.38
	8.8	93.6	119	32840	13229	16.6	10.5	1460	1058	1774	1182	29590	1774	1.38
	10.0	106	135	36895	14819	16.5	10.5	1640	1185	2000	1331	33284	1986	1.37
	12.0	126	161	43434	17359	16.4	10.4	1930	1389	2367	1572	39260	2324	1.37
	12.5	131	167	45026	17973	16.4	10.4	2001	1438	2458	1631	40719	2406	1.37
	14.2	148	189	50315	19999	16.3	10.3	2236	1600	2759	1827	45577	2675	1.36
	16.0	166	211	55705	22041	16.2	10.2	2476	1763	3070	2029	50545	2947	1.36



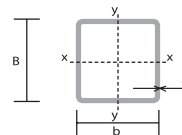




MILD STEEL SQUARE HOLLOW SECTIONS



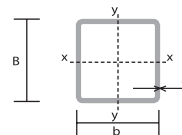
RECTANGULAR HOLLOW SECTIONS



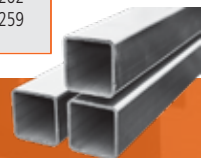
Size B x B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W _{el} cm ³	Plastic Modulus W _{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I _t cm ⁴	C _t cm ³	
40 x 40	2.5	2.89	3.68	8.54	1.52	4.27	5.14	13.6	6.22	0.154
	3.0	3.41	4.34	9.78	1.50	4.89	5.97	15.7	7.10	0.152
	3.2	3.61	4.60	10.20	1.49	5.11	6.28	16.5	7.42	0.152
	4.0	4.39	5.59	11.80	1.45	5.91	7.44	19.5	8.54	0.150
	4.9	5.20	6.62	13.20	1.41	6.62	8.55	22.2	9.51	0.147
	5.0	5.28	6.73	13.40	1.41	6.68	8.66	22.5	9.60	0.147
50 x 50	2.5	3.68	4.68	17.50	1.93	6.99	8.29	27.5	10.20	0.194
	3.0	4.35	5.54	20.20	1.91	8.08	9.70	32.1	11.80	0.192
	3.2	4.62	5.88	21.20	1.90	8.49	10.20	33.8	12.40	0.192
	4.0	5.64	7.19	25.00	1.86	9.99	12.30	40.4	14.50	0.190
	4.9	6.74	8.58	28.50	1.82	11.40	14.30	46.9	16.50	0.187
	5.0	6.85	8.73	28.90	1.82	11.60	14.50	47.6	16.70	0.187
	6.0	7.99	10.20	32.00	1.77	12.80	16.50	53.6	18.40	0.185
	6.3	8.31	10.60	32.80	1.76	13.10	17.00	55.2	18.80	0.184



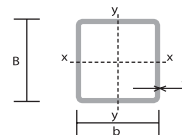
SQUARE HOLLOW SECTIONS



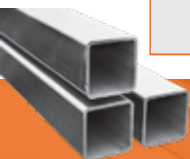
Size B x B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W _{el} cm ³	Plastic Modulus W _{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I _t cm ⁴	C _t cm ³	
60 x 60	3.0	5.29	6.74	36.2	2.32	12.10	14.3	56.9	17.70	0.232
	3.2	5.62	7.16	38.2	2.31	12.70	15.2	60.2	18.60	0.232
	4.0	6.90	8.79	45.4	2.27	15.10	18.3	72.5	22.0	0.230
	4.9	8.28	10.5	52.5	2.23	17.50	21.6	85.1	25.4	0.227
	5.0	8.42	10.7	53.3	2.23	17.80	21.9	86.4	25.7	0.227
	6.0	9.87	12.6	59.9	2.18	20.00	25.1	98.6	28.8	0.225
	6.3	10.3	13.1	61.6	2.17	20.50	26.0	102	29.6	0.224
	8.0	12.5	16.0	69.7	2.09	23.20	30.4	118	33.4	0.219
70 x 70	3.0	6.24	7.94	59.0	2.73	16.90	19.9	92.2	24.8	0.272
	3.2	6.63	8.44	62.3	2.72	17.80	21.0	97.6	26.1	0.272
	3.6	7.40	9.42	68.6	2.70	19.60	23.3	108	28.7	0.271
	4.0	8.15	10.4	74.7	2.68	21.30	25.5	118	31.2	0.270
	4.9	9.81	12.5	87.2	2.64	24.90	30.3	140	36.2	0.267
	5.0	9.99	12.7	88.5	2.64	25.30	30.8	142	36.8	0.267
	6.0	11.8	15.0	101.0	2.59	28.70	35.5	163	41.6	0.265
	6.3	12.3	15.6	104.0	2.58	29.70	36.9	169	42.9	0.264
	7.1	13.6	17.3	112.0	2.54	32.00	40.3	185	46.1	0.262
	8.0	15.0	19.2	120.0	2.50	34.20	43.8	200	49.2	0.259



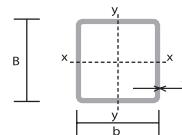
SQUARE HOLLOW SECTIONS



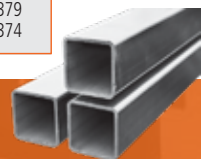
Size $B \times B$ mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W_{el} cm ³	Plastic Modulus W_{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I_t cm ⁴	C_t cm ³	
76.2 x 76.2	3.2	7.25	9.23	81.5	2.97	21.40	25.2	127	31.4	0.297
	3.6	8.10	10.3	89.9	2.95	23.60	27.9	141	34.6	0.296
	4.0	8.93	11.4	98.0	2.93	25.70	30.6	154	37.6	0.294
	4.9	10.8	13.7	115.0	2.89	30.20	36.4	183	43.9	0.292
	5.0	11.0	14.0	117.0	2.89	30.60	37.0	186	44.6	0.292
	6.0	12.9	16.5	133.0	2.85	35.00	42.9	215	50.7	0.289
	6.3	13.5	17.2	138.0	2.83	36.20	44.6	223	52.4	0.289
	7.1	15.0	19.1	149.0	2.80	39.10	48.8	244	56.6	0.287
	8.0	16.6	21.1	160.0	2.75	42.10	53.2	265	60.7	0.284
80 x 80	3.2	7.63	9.72	95.0	3.13	23.7	27.9	148	34.9	0.312
	3.6	8.53	10.9	105	3.11	26.2	31.0	164	38.5	0.311
	4.0	9.41	12.0	114	3.09	28.6	34.0	180	41.9	0.310
	4.9	11.4	14.5	135	3.05	33.6	40.4	214	49.0	0.307
	5.0	11.6	14.7	137	3.05	34.2	41.1	217	49.8	0.307
	5.6	12.8	16.3	149	3.02	37.2	45.2	238	54.1	0.306
	6.0	13.6	17.4	156	3.00	39.1	47.8	252	56.8	0.305
	6.3	14.2	18.1	162	2.99	40.5	49.7	262	58.7	0.304
	7.1	15.8	20.2	176	2.95	43.9	54.5	286	63.5	0.302
	8.0	17.5	22.4	189	2.91	47.3	59.5	312	68.3	0.299



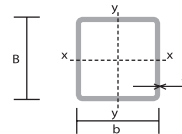
SQUARE HOLLOW SECTIONS



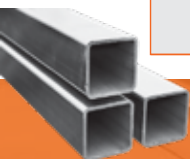
Size B x B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W _{el} cm ³	Plastic Modulus W _{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I _t cm ⁴	C _t cm ³	
90 x 90	3.6	9.66	12.3	152	3.52	33.8	39.7	237	49.7	0.351
	4.0	10.7	13.6	166	3.50	37.0	43.6	260	54.2	0.350
	4.9	12.9	16.4	196	3.46	43.6	52.1	310	63.8	0.347
	5.0	13.1	16.7	200	3.45	44.4	53.0	316	64.8	0.347
	5.6	14.6	18.6	218	3.43	48.5	58.3	347	70.7	0.346
	6.0	15.5	19.8	230	3.41	51.1	61.8	367	74.3	0.345
	6.3	16.2	20.7	238	3.40	53.0	64.3	382	77.0	0.344
	7.1	18.1	23.0	260	3.36	57.7	70.8	419	83.7	0.342
8.0	20.1	25.6	25.6	281	3.32	62.6	77.6	459	90.5	0.339
100 x 100	3.6	10.8	13.7	212	3.92	42.3	49.5	328	62.3	0.391
	4.0	11.9	15.2	232	3.91	46.4	54.4	361	68.2	0.390
	4.9	14.4	18.4	275	3.87	55.0	65.2	432	80.5	0.387
	5.0	14.7	18.7	279	3.86	55.9	66.4	439	81.8	0.387
	5.6	16.3	20.8	306	3.84	61.2	73.2	484	89.5	0.386
	6.0	17.4	22.2	323	3.82	64.6	77.6	513	94.3	0.385
	6.3	18.2	23.2	336	3.80	67.1	80.9	534	97.8	0.384
	7.1	20.3	25.8	367	3.77	73.4	89.2	589	107	0.382
	8.0	22.6	28.8	400	3.73	79.9	98.2	646	116	0.379
	10.0	27.4	34.9	462	3.64	92.4	116	761	133	0.374



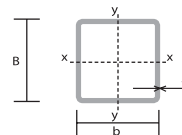
SQUARE HOLLOW SECTIONS



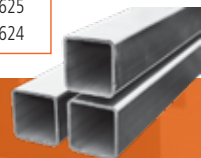
Size B x B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W _{el} cm ³	Plastic Modulus W _{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I _t cm ⁴	C _t cm ³	
120 x 120	4.0	14.4	18.4	410	4.72	68.4	79.7	635	101	0.470
	4.9	17.5	22.3	489	4.68	81.5	95.8	763	120	0.467
	5.0	17.8	22.7	498	4.68	83.0	97.6	777	122	0.467
	5.6	19.9	25.3	547	4.65	91.2	108	858	134	0.466
	6.0	21.2	27.0	579	4.63	96.6	115	911	141	0.465
	6.3	22.2	28.2	603	4.62	100	120	950	147	0.464
	7.1	24.7	31.5	663	4.59	110	133	1051	161	0.462
	8.0	27.6	35.2	726	4.55	121	146	1160	176	0.459
	8.8	30.1	38.3	779	4.51	130	158	1252	189	0.457
	10.0	33.7	42.9	852	4.46	142	175	1382	206	0.454
	12.0	39.5	50.3	958	4.36	160	201	1578	230	0.449
	12.5	40.9	52.1	982	4.34	164	207	1623	236	0.448
140 x 140	4.9	20.6	26.2	793	5.50	113	132	1230	167	0.547
	5.0	21.0	26.7	807	5.50	115	135	1253	170	0.547
	5.6	23.4	29.8	891	5.47	127	149	1387	187	0.546
	6.0	24.9	31.8	944	5.45	135	159	1475	198	0.545
	6.3	26.1	33.3	984	5.44	141	166	1540	206	0.544
	7.1	29.2	37.2	1086	5.40	155	184	1709	227	0.542
	8.0	32.6	41.6	1195	5.36	171	204	1892	249	0.539
	8.8	35.6	45.4	1287	5.33	184	221	2048	268	0.537
	10.0	40.0	50.9	1416	5.27	202	246	2272	294	0.534
	12.0	47.0	59.9	1609	5.18	230	284	2616	333	0.529
	12.5	48.7	62.1	1653	5.16	236	293	2696	342	0.528



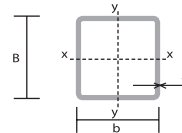
SQUARE HOLLOW SECTIONS



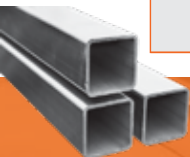
Size B x B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W _{el} cm ³	Plastic Modulus W _{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I _t cm ⁴	C _t cm ³	
150 x 150	4.9	22.1	28.2	984	5.91	131	153	1522	193	0.587
	5.0	22.6	28.7	1002	5.90	134	156	1550	197	0.587
	5.6	25.1	32.0	1106	5.88	147	173	1718	217	0.586
	6.0	26.8	34.2	1174	5.86	156	184	1828	230	0.585
	6.3	28.1	35.8	1223	5.85	163	192	1909	240	0.584
	7.1	31.4	40.0	1352	5.81	180	213	2121	264	0.582
	8.0	35.1	44.8	1491	5.77	199	237	2351	291	0.579
	8.8	38.4	48.9	1608	5.74	214	257	2549	313	0.577
	10.0	43.1	54.9	1773	5.68	236	286	2832	344	0.574
	12.0	50.8	64.7	2023	5.59	270	331	3272	391	0.569
	12.5	52.7	67.1	2080	5.57	277	342	3375	402	0.568
	16.0††	65.2	83.0	2430	5.41	324	411	4026	467	0.559
160 x 160	5.0	24.1	30.7	1225	6.31	153	178	1892	226	0.627
	5.6	26.9	34.2	1353	6.29	169	198	2098	249	0.626
	6.0	28.7	36.6	1437	6.27	180	210	2233	264	0.625
	6.3	30.1	38.3	1499	6.26	187	220	2333	275	0.624



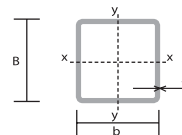
SQUARE HOLLOW SECTIONS



Size B x B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W _{el} cm ³	Plastic Modulus W _{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I _t cm ⁴	C _t cm ³	
160 x 160	7.1	33.7	42.9	1659	6.22	207	245	2595	304	0.622
	8.0	37.6	48.0	1831	6.18	229	272	2880	335	0.619
	8.8	41.1	52.4	1978	6.14	247	295	3125	361	0.617
	10.0	46.3	58.9	2186	6.09	273	329	3478	398	0.614
	12.0	54.6	69.5	2502	6.00	313	382	4028	454	0.609
	12.5	56.6	72.1	2576	5.98	322	395	4158	467	0.608
	14.2	63.3	80.7	2809	5.90	351	436	4579	508	0.603
	16.0	70.2	89.4	3028	5.82	379	476	4988	546	0.599
180 x 180	5.0	27.3	34.7	1765	7.13	196	227	2718	290	0.707
	5.6	30.4	38.7	1954	7.10	217	252	3018	320	0.706
	6.0	32.5	41.4	2077	7.09	231	269	3215	340	0.705
	6.3	34.0	43.3	2168	7.07	241	281	3361	355	0.704
	7.1	38.1	48.6	2404	7.04	267	314	3744	393	0.702
	8.0	42.7	54.4	2661	7.00	296	349	4162	434	0.699
	8.8	46.7	59.4	2880	6.96	320	379	4524	469	0.697



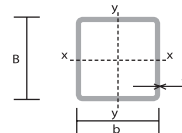
SQUARE HOLLOW SECTIONS



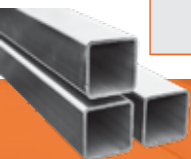
Size $B \times B$ mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W_{el} cm ³	Plastic Modulus W_{pl} cm ³	Torsional Constants		Superficial Area per m^2/m
								I_t cm ⁴	C_t cm ³	
180 x 180	10.0	52.5	66.9	3193	6.91	355	424	5048	518	0.694
	12.0	62.1	79.1	3677	6.82	409	494	5873	595	0.689
	12.5	64.4	82.1	3790	6.80	421	511	6070	613	0.688
	14.2	72.2	92.9	4154	6.72	462	566	6711	670	0.683
	16.0	80.2	102	4504	6.64	500	621	7343	724	0.679
200 x 200	5.0	30.4	38.7	2445	7.95	245	283	3756	362	0.787
	5.6	33.9	43.2	2710	7.92	271	314	4174	401	0.786
	6.0	36.2	46.2	2883	7.90	288	335	4449	426	0.785
	6.3	38.0	48.4	3011	7.89	301	350	4653	444	0.784
	7.1	42.6	54.2	3345	7.85	335	391	5189	493	0.782
	8.0	47.7	60.8	3709	7.81	371	436	5778	545	0.779
	8.8	52.2	66.5	4021	7.78	402	474	6288	590	0.777
	10.0	58.8	74.9	4471	7.72	447	531	7031	655	0.774
	12.0	69.6	88.7	5171	7.64	517	621	8208	754	0.769
	12.5	72.3	92.1	5336	7.61	534	643	8491	778	0.768
	14.2	81.1	103	5872	7.54	587	714	9417	854	0.763
	16.0	90.3	115	6394	7.46	639	785	10340	927	0.759



SQUARE HOLLOW SECTIONS



Size B x B mm	Thickness T mm	Mass M kg/m	Sectional Area A cm ²	Moment of Inertia I cm ⁴	Radius of Gyration i cm	Elastic Modulus W _{el} cm ³	Plastic Modulus W _{pl} cm ³	Torsional Constants		Superficial Area per m m ² /m
								I _t cm ⁴	C _t cm ³	
250 x 250	5.0	38.3	48.7	4861	9.99	389	447	7430	577	0.987
	5.6	42.7	54.4	5399	9.96	432	498	8271	640	0.986
	6.0	45.7	58.2	5752	9.94	460	531	8825	681	0.985
	6.3	47.9	61.0	6014	9.93	481	556	9238	712	0.984
	7.1	53.7	68.4	6701	9.90	536	622	10325	792	0.982
	8.0	60.3	76.8	7455	9.86	596	694	11525	880	0.979
	8.8	66.0	84.1	8107	9.82	649	758	12572	955	0.977
	10.0	74.5	94.9	9055	9.77	724	851	14106	1065	0.974
	12.0	88.5	113	10556	9.68	844	1000	16567	1237	0.969
	12.5	91.9	117	10915	9.66	873	1037	17164	1279	0.968
	14.2	103	132	12094	9.58	967	1158	19139	1413	0.963
16.0	115	147	13267	9.50	1061	1280	21138	1546	0.959	
300 x 300	8.0	72.8	92.8	13128	11.9	875	1013	20194	1294	1.18
	16.0	141	179	23884	11.5	1590	1895	37622	1325	1.16
350 x 350	10.0	106	135	25541	13.9	1479	1715	39886	2185	1.37
	12.5	131	167	31541	13.7	1802	2107	48934	2654	1.37





ERW & SEAMLESS PIPES



DIMENSIONS AND WEIGHTS OF STEEL PIPE TO ASTM A53 / A106

Metric Size (mm)	Outside Diameter		Wall Thickness		Weight		Identification				
	Inches	mm	Inches	mm	lbs/ ft	kg/ m	API Specifications			W. T. Std - XS XSS	Nº Schedule
							5L 3/82	5LX 3/82	5LS 3/82		
1/8	0.405	10.3	0.068	1.73	0.24	0.37	X			STD	40
	0.405	10.3	0.095	2.41	0.31	0.47	X			XS	80
1/4	0.540	13.7	0.088	2.24	0.42	0.63	X			STD	40
	0.540	13.7	0.119	3.02	0.54	0.80	X			XS	80
3/8	0.675	17.1	0.091	2.31	0.57	0.84	X			STD	40
	0.675	17.1	0.126	3.20	0.74	1.10	X			XS	80
1/2	0.840	21.3	0.109	2.77	0.85	1.27	X			STD	40
	0.840	21.3	0.147	3.73	1.09	1.62	X			XS	80
	0.840	21.3	0.188	4.78	1.31	1.95					160
	0.840	21.3	0.294	7.47	1.71	2.55	X			XXS	
3/4	1.050	26.7	0.113	2.87	1.13	1.69	X			STD	40
	1.050	26.7	0.154	3.91	1.47	2.20	X			XS	80
	1.050	26.7	0.219	5.56	1.94	2.90					160
	1.050	26.7	0.308	7.82	2.44	3.64	X			XXS	
1	1.315	33.4	0.133	3.38	1.68	2.50	X			STD	40
	1.315	33.4	0.179	4.55	2.17	3.24	X			XS	80
	1.315	33.4	0.250	6.35	2.84	4.24					160
	1.315	33.4	0.358	9.09	3.66	5.45	X			XXS	
1 1/4	1.660	42.2	0.140	3.56	2.27	3.39	X			STD	40
	1.660	42.2	0.191	4.85	3.00	4.47	X			XS	80
	1.660	42.2	0.250	6.35	3.76	5.61					160
	1.660	42.2	0.382	9.70	5.21	7.77	X			XXS	
1 1/2	1.900	48.3	0.145	3.68	2.72	4.05	X			STD	40
	1.900	48.3	0.200	5.08	3.63	5.41	X			XS	80
	1.900	48.3	0.281	7.14	4.86	7.25					160
	1.900	48.3	0.400	10.15	6.41	9.56	X			XXS	



DIMENSIONS AND WEIGHTS OF STEEL PIPE TO ASTM A53 / A106

Metric Size (mm)	Outside Diameter		Wall Thickness		Weight		Identification				
	Inches	mm	Inches	mm	lbs/ft	kg/m	API Specifications			W. T. Std - XS XSS	N ^o Schedule
							5L 3/82	5LX 3/82	5LS 3/82		
2	2.375	60.3	0.083	2.11	2.03	3.03	X	X			
	2.375	60.3	0.109	2.77	2.64	3.93	X	X			
	2.375	60.3	0.125	3.18	3.00	4.48	X	X			
	2.375	60.3	0.141	3.58	3.36	5.01	X	X			
	2.375	60.3	0.154	3.91	3.65	5.44	X	X		STD	40
	2.375	60.3	0.172	4.37	4.05	6.03	X	X			
	2.375	60.3	0.188	4.78	4.39	6.54	X	X			
	2.375	60.3	0.218	5.54	5.02	7.48	X	X		XS	80
	2.375	60.3	0.250	6.35	6.67	8.45	X	X			
	2.375	60.3	0.281	7.14	6.28	9.36	X	X			
	2.375	60.3	0.344	8.74	7.46	11.11					160
	2.375	60.3	0.436	11.07	9.03	13.44	X	X		XXS	
	2 1/2	2.875	73.0	0.083	2.11	2.47	3.69	X	X		
2.875		73.0	0.109	2.77	3.22	4.80	X	X			
2.875		73.0	0.125	3.18	3.67	5.48	X	X			
2.875		73.0	0.141	3.58	4.12	6.13	X	X			
2.875		73.0	0.156	3.96	4.53	6.74	X	X			
2.875		73.0	0.172	4.37	4.97	7.40	X	X			
2.875		73.0	0.188	4.78	5.40	8.04	X	X			
2.875		73.0	0.203	5.16	5.79	8.63	X	X		STD	40
2.875		73.0	0.216	5.49	6.13	9.14	X	X			
2.875		73.0	0.250	6.35	7.01	10.44	X	X			
2.875		73.0	0.276	7.01	7.66	11.41	X	X		XS	80
2.875		73.0	0.375	9.53	10.01	14.92					160
2.875		73.0	0.552	14.02	13.69	20.39	X	X		XXS	
3		3.500	88.9	0.083	2.11	3.03	4.52	X	X		
	3.500	88.9	0.109	2.77	3.95	5.88	X	X			
	3.500	88.9	0.125	3.18	4.51	6.72	X	X			
	3.500	88.9	0.141	3.58	5.06	7.53	X	X			
	3.500	88.9	0.156	3.96	5.57	8.29	X	X			



DIMENSIONS AND WEIGHTS OF STEEL PIPE TO ASTM A53 / A106

Metric Size (mm)	Outside Diameter		Wall Thickness		Weight		Identification						
	Inches	mm	Inches	mm	lbs/ft	kg/m	API Specifications			W. T. Std - XS XSS	N ^o Schedule		
							5L 3/82	5LX 3/82	5LS 3/82				
3	3.500	88.9	0.172	4.37	6.11	9.11	X	X		STD	40		
	3.500	88.9	0.188	4.78	6.65	9.92	X	X					
	3.500	88.9	0.216	5.49	7.58	11.29	X	X					
	3.500	88.9	0.250	6.35	8.68	12.93	X	X					
	3.500	88.9	0.281	7.14	9.66	14.40	X	X		XS	80		
	3.500	88.9	0.300	7.62	10.25	15.27	X	X					
	3.500	88.9	0.438	11.13	14.32	21.35				XXS	160		
	3.500	88.9	0.600	15.24	18.58	27.68	X	X					
3 1/2	4.000	101.6	0.083	2.11	3.47	5.18	X	X					
	4.000	101.6	0.109	2.77	4.53	6.75	X	X					
	4.000	101.6	0.125	3.18	5.17	7.72	X	X					
	4.000	101.6	0.141	3.58	5.81	8.65	X	X					
	4.000	101.6	0.156	3.96	6.40	9.53	X	X					
	4.000	101.6	0.172	4.37	7.03	10.48	X	X					
	4.000	101.6	0.188	4.78	7.65	11.41	X	X					
	4.000	101.6	0.226	5.74	9.11	13.57	X	X				STD	40
	4.000	101.6	0.250	6.35	10.01	14.92	X	X					
	4.000	101.6	0.281	7.14	11.16	16.63	X	X					
	4.000	101.6	0.318	8.08	12.50	18.63	X	X				XS	80
4	4.500	114.3	0.083	2.11	3.92	5.84	X	X	X				
	4.500	114.3	0.109	2.77	5.11	7.62	X	X	X				
	4.500	114.3	0.125	3.18	5.84	8.71	X	X	X				
	4.500	114.3	0.141	3.58	6.56	9.77	X	X	X				
	4.500	114.3	0.156	3.96	7.24	10.78	X	X	X				
	4.500	114.3	0.172	4.37	7.95	11.85	X	X	X				
	4.500	114.3	0.188	4.78	8.66	12.91	X	X	X				
	4.500	114.3	0.203	5.16	9.32	13.89	X	X	X				
	4.500	114.3	0.219	5.56	10.01	14.91	X	X	X				
	4.500	114.3	0.237	6.02	10.79	16.07	X	X	X			STD	40
	4.500	114.3	0.250	6.35	11.35	16.90	X	X	X				
	4.500	114.3	0.281	7.14	12.66	18.87	X	X	X				
	4.500	114.3	0.312	7.92	13.96	20.78	X	X	X			XS	80 120 160
	4.500	114.3	0.337	8.56	14.98	22.32	X	X	X				
	4.500	114.3	0.438	11.13	19.00	28.32	X	X	X				
	4.500	114.3	0.531	13.49	22.51	33.54	X	X	X				
	4.500	114.3	0.674	17.12	27.54	41.03	X	X	X			XXS	
5	5.563	141.3	0.083	2.11	4.86	7.24	X		X				
	5.563	141.3	0.125	3.18	7.26	10.83	X		X				



DIMENSIONS AND WEIGHTS OF STEEL PIPE TO ASTM A53 / A106

Metric Size (mm)	Outside Diameter		Wall Thickness		Weight		Identification				
	Inches	mm	Inches	mm	lbs/ft	kg/m	API Specifications			W. T. Std - XS XSS	N ^o Schedule
							5L 3/82	5LX 3/82	5LS 3/82		
5	5.563	141.3	0.156	3.96	9.01	13.41	X		X	STD	40
	5.563	141.3	0.188	4.78	10.79	16.09	X		X		
	5.563	141.3	0.219	5.56	12.50	18.61	X		X		
	5.563	141.3	0.258	6.55	14.62	21.77	X		X		
	5.563	141.3	0.281	7.14	15.85	23.62	X		X		
	5.563	141.3	0.312	7.92	17.50	26.05	X		X	XS	80 120 160
	5.563	141.3	0.344	8.74	19.17	28.57	X		X		
	5.563	141.3	0.375	9.53	20.78	30.97	X		X		
	5.563	141.3	0.500	12.70	27.04	40.28	X	X	X		
	5.563	141.3	0.625	15.88	32.96	49.11	X	X	X		
5.563	141.3	0.750	19.05	38.55	57.43	X			XXS		
6	6.625	168.3	0.083	2.11	5.80	8.65	X	X	X	STD	40
	6.625	168.3	0.109	2.77	7.59	11.31	X	X	X		
	6.625	168.3	0.125	3.18	8.68	12.95	X	X	X		
	6.625	168.3	0.141	3.58	9.76	14.54	X	X	X		
	6.625	168.3	0.156	3.96	10.78	16.05	X	X	X		
	6.625	168.3	0.172	4.37	11.88	17.67	X	X	X		
	6.625	168.3	0.188	4.78	12.92	20.97	X	X	X		
	6.625	168.3	0.203	5.16	13.92	20.97	X	X	X		
	6.625	168.3	0.219	5.56	14.98	22.31	X	X	X		
	6.625	168.3	0.250	6.35	17.02	25.36	X	X	X		
	6.625	168.3	0.280	7.11	18.97	28.26	X	X	X		
	6.625	168.3	0.312	7.92	21.04	31.32	X	X	X		
	6.625	168.3	0.344	8.74	23.08	34.39	X	X	X		
	6.625	168.3	0.375	9.53	25.03	37.31	X	X	X		
	6.625	168.3	0.432	10.97	28.57	42.56	X	X	X		
	6.625	168.3	0.500	12.70	32.71	48.73	X	X	X		
6.625	168.3	0.562	14.27	36.39	54.20	X	X	X			
6.625	168.3	0.625	15.88	40.05	59.69	X	X	X			
6.625	168.3	0.719	18.26	45.35	67.56	X	X	X			
6.625	168.3	0.864	21.95	53.16	79.22	X	X	X			
8	8.625	219.1	0.125	3.18	11.35	16.93	X	X	X	STD	40
	8.625	219.1	0.156	3.96	14.11	21.01	X	X	X		
	8.625	219.1	0.188	4.78	16.94	25.26	X	X	X		
	8.625	219.1	0.203	5.16	18.26	27.22	X	X	X		



DIMENSIONS AND WEIGHTS OF STEEL PIPE TO ASTM A53 / A106

Metric Size (mm)	Outside Diameter		Wall Thickness		Weight		Identification				
	Inches	mm	Inches	mm	lbs/ft	kg/m	API Specifications			W. T. Std - XS XSS	N° Schedule
							5L 3/82	5LX 3/82	SLS 3/82		
8	8.625	219.1	0.219	5.56	19.66	29.28	X	X	X	STD	40
	8.625	219.1	0.250	6.35	22.36	33.31	X	X	X		
	8.625	219.1	0.277	7.04	24.70	36.81	X	X	X		
	8.625	219.1	0.312	7.92	27.70	41.24	X	X	X		
	8.625	219.1	0.322	8.18	28.55	42.55	X	X	X		
	8.625	219.1	0.344	8.74	30.42	45.34	X	X	X		
	8.625	219.1	0.375	9.53	33.04	49.25	X	X	X	60	
	8.625	219.1	0.406	10.31	35.64	53.08					
	8.625	219.1	0.438	11.13	38.30	57.08	X	X	X		
	8.625	219.1	0.500	12.70	43.39	64.64	X	X	X	XS	80
	8.625	219.1	0.562	14.27	48.40	72.08	X	X	X		
	8.625	219.1	0.594	15.09	50.95	75.92				100	
	8.625	219.1	0.625	15.88	53.40	79.58	X	X	X		
	8.625	219.1	0.719	18.26	60.71	90.44	X	X	X		
	8.625	219.1	0.812	20.62	67.76	100.92				120	
8.625	219.1	0.875	22.23	72.42	107.92						
8.625	219.1	0.906	23.01	74.69	111.27	X					
10	10.750	273.1	0.156	3.96	17.65	26.28	X	X	X	STD	20
	10.750	273.1	0.188	4.78	21.21	31.63	X	X	X		
	10.750	273.1	0.203	5.16	22.87	34.09		X	X		
	10.750	273.1	0.219	5.56	24.63	36.68	X	X	X		
	10.750	273.1	0.250	6.35	28.04	41.77	X	X	X		
	10.750	273.1	0.279	7.09	31.20	46.51	X	X	X		
	10.750	273.1	0.307	7.80	34.24	51.03	X	X	X	30	
	10.750	273.1	0.344	8.74	38.23	56.98	X	X	X		
	10.750	273.1	0.365	9.27	40.48	60.31	X	X	X		
	10.750	273.1	0.438	11.13	48.24	71.90	X	X	X	XS	60
	10.750	273.1	0.500	12.70	54.74	81.55	X	X	X		
	10.750	273.1	0.562	14.27	61.15	91.08	X	X	X		
	10.750	273.1	0.594	15.09	64.43	96.01				80	
	10.750	273.1	0.625	15.88	67.58	100.73	X	X	X		
	10.750	273.1	0.719	18.26	77.03	114.75	X	X	X		
	10.750	273.1	0.812	20.62	86.18	128.38	X			100	
	10.750	273.1	0.844	21.44	89.29	133.06					
	10.750	273.1	1.000	25.40	104.13	155.15					
	10.750	273.1	1.125	28.58	115.64	172.33				XXS	140
									160		



DIMENSIONS AND WEIGHTS OF STEEL PIPE TO ASTM A53 / A106

Metric Size (mm)	Outside Diameter		Wall Thickness		Weight		Identification				
							API Specifications			W. T. Std - XS XSS	N° Schedule
	Inches	mm	Inches	mm	lbs/ft	kg/m	SL 3/82	SLX 3/82	SLS 3/82		
12	12.750	323.9	0.172	4.37	23.11	34.43	X	X	X	STD	20
	12.750	323.9	0.188	4.78	25.22	37.62	X	X	X		
	12.750	323.9	0.203	5.16	27.20	40.56		X	X		
	12.750	323.9	0.219	5.56	29.31	43.65	X	X	X		
	12.750	323.9	0.250	6.35	33.38	49.73	X	X	X		
	12.750	323.9	0.281	7.14	37.42	55.77	X	X	X		
	12.750	323.9	0.312	7.92	41.45	61.71	X	X	X		
	12.750	323.9	0.330	8.38	43.77	65.20	X	X	X		
	12.750	323.9	0.344	8.74	45.58	67.93	X	X	X		
	12.750	323.9	0.375	9.53	49.56	73.88	X	X	X		
	12.750	323.9	0.406	10.31	53.52	79.73		X	X	XS	40
	12.750	323.9	0.438	11.13	57.59	85.84	X	X	X		
	12.750	323.9	0.500	12.70	65.42	97.46	X	X	X	XSS	60
	12.750	323.9	0.562	14.27	73.15	108.96	X	X	X		
	12.750	323.9	0.625	15.88	80.93	120.62	X	X	X		
	12.750	323.9	0.688	17.48	88.63	132.08	X	X	X		
	12.750	323.9	0.750	19.05	96.12	143.21	X	X	X	100	
	12.750	323.9	0.812	20.62	103.53	154.21	X	X	X		
	12.750	323.9	0.844	21.44	107.32	159.91				XXS	120
	12.750	323.9	0.875	22.23	110.97	165.37	X	X	X		
12.750	323.9	1.000	25.40	125.49	186.97						
12.750	323.9	1.125	28.58	139.67	208.14						
12.750	323.9	1.312	33.32	160.27	238.76				140	160	
14	14.000	355.6	0.188	4.78	27.73	41.35	X	X	X	STD	10
	14.000	355.6	0.203	5.16	29.91	44.59	X		X		
	14.000	355.6	0.210	5.33	30.93	46.04		X	X		
	14.000	355.6	0.219	5.56	32.23	47.99		X	X		
	14.000	355.6	0.250	6.35	36.71	54.69	X	X	X		
	14.000	355.6	0.281	7.14	41.17	61.35	X	X	X		
	14.000	355.6	0.312	7.92	45.61	67.90	X	X	X		
	14.000	355.6	0.344	8.74	50.17	74.76	X	X	X		
	14.000	355.6	0.375	9.53	54.57	81.33	X	X	X		
	14.000	355.6	0.406	10.31	58.94	87.79		X	X		
	14.000	355.6	0.438	11.13	63.44	94.55	X	X	X	40	
	14.000	355.6	0.469	11.91	67.78	100.94	X	X	X		
	14.000	355.6	0.500	12.70	72.09	107.39	X	X	X	XS	60
	14.000	355.6	0.562	14.27	80.66	120.11	X	X	X		
	14.000	355.6	0.594	15.09	85.05	126.71					
	14.000	355.6	0.625	15.88	89.28	133.03	X	X	X		







MS ERW PIPES, BLACK & GALVANIZED



TECHNICAL DATA CONFIRMING TO EN 10255:2004 (SUPERCEDES BS 1387 : 1985) GAL IS : 1239 (pti) : BS1387

CLASS	SIZE		OURSIDE DIAMETER				WALL		WEIGHT OF BLACK PIPES						WEIGHT OF GALVANIZED PIPES					
			Max		Min		Thickness		Plain Ended			Screwed & Socketed			Plain Ended			Screwed & socketed		
	DN	Specific OD	inch	mm	inch	mm	inch	mm	kg/mtr	mtr/ ton	ft/ ton	kg/mtr	mtr/ ton	ft/ ton	kg/mtr	mtr/ ton	ft/ ton	kg/mtr	mtr/ ton	ft/ ton
TYPE L2	1/2	21.3	0.843	21.4	0.827	21.0	0.079	2.0	0.95	1056	3464	0.96	1046	3432	0.995	1005	3297	1.004	996	3268
	3/4	26.9	1.059	26.9	1.039	26.4	0.091	2.3	1.38	725	2377	1.39	719	2360	1.441	694	2277	1.451	689	2261
	1	33.7	1.331	33.8	1.307	33.2	0.102	2.6	1.98	505	1657	2.00	500	1640	2.058	486	1594	2.078	481	1579
	1 1/4	42.4	1.673	42.5	1.650	41.9	0.102	2.6	2.54	394	1292	2.57	389	1277	2.640	379	1243	2.670	375	1229
	1 1/2	48.3	1.906	48.4	1.882	47.8	0.114	2.9	3.23	310	1016	3.27	306	1003	3.344	299	981	3.384	296	970
	2	60.3	2.37	60.2	2.346	59.6	0.114	2.9	4.08	245	804	4.15	241	791	4.223	237	777	4.293	233	764
	2 1/2	76.1	2.992	76.0	2.961	75.2	0.126	3.2	5.71	175	575	5.83	172	563	5.892	170	557	6.012	166	546
	3	88.9	3.492	88.7	3.461	87.9	0.126	3.2	6.72	149	488	6.89	145	476	6.934	144	473	7.104	141	462
	4	114.3	4.484	113.9	4.449	113.0	0.142	3.6	9.75	103	336	10.00	100	328	10.026	100	327	10.276	97	319
	5	21.3	0.858	21.8	0.827	21.0	0.102	2.6	1.21	826	2711	1.22	820	2689	1.257	796	2610	1.266	790	2592
MEDIUM SERIES	3/4	26.9	1.075	27.3	1.043	26.5	0.126	2.6	1.56	641	2103	1.57	637	2090	1.621	617	2024	1.631	613	2012
	1	33.7	1.346	34.2	1.311	33.3	0.126	3.2	2.41	415	1361	2.43	412	1350	2.487	402	1319	2.507	399	1309
	1 1/4	42.4	1.689	42.9	1.654	42.0	0.126	3.2	3.10	323	1058	3.13	319	1048	3.199	313	1026	3.229	310	1016
	1 1/2	48.3	1.921	48.8	1.886	47.9	0.126	3.2	3.56	281	922	3.60	278	911	3.684	271	891	3.724	269	881
	2	60.3	2.394	60.8	2.350	59.7	0.142	3.6	5.03	199	652	5.10	196	643	5.172	193	634	5.242	191	626
	2 1/2	76.1	3.016	76.6	2.965	75.3	0.142	3.6	6.42	156	511	6.54	153	502	6.612	151	496	6.732	149	487
	3	88.9	3.524	89.5	3.465	88.0	0.157	4.0	8.36	120	392	8.53	117	385	8.583	117	382	8.753	114	375
	4	114.3	4.528	115.0	4.453	113.1	0.177	4.5	12.20	82	269	12.50	80	262	12.476	80	263	12.726	79	258
	5	139.7	5.543	140.8	5.453	138.5	0.197	5.0	16.60	60	198	17.10	58	192	16.938	59	194	17.438	57	188
	6	165.1	6.555	166.5	6.453	163.9	0.197	5.0	19.80	51	166	20.40	49	161	20.102	50	163	20.702	48	158
HEAVY SERIES	1/2	21.3	0.858	21.8	0.827	21.0	0.126	3.2	1.44	694	2278	1.45	690	2263	1.486	673	2208	1.495	669	2195
	3/4	26.9	1.075	27.3	1.043	26.5	0.126	3.2	1.87	535	1754	1.88	532	1745	1.930	518	1700	1.940	515	1691
	1	33.7	1.346	34.2	1.311	33.3	0.157	4.0	2.93	341	1120	2.95	339	1112	3.015	332	1088	3.035	329	1081
	1 1/4	42.4	1.689	42.9	1.654	42.0	0.157	4.0	3.79	264	866	3.82	262	859	3.897	257	842	3.927	255	835
	1 1/2	48.3	1.921	48.8	1.886	47.9	0.157	4.0	4.37	229	751	4.41	227	744	4.492	223	730	4.532	221	724
	2	60.3	2.394	60.8	2.350	59.7	0.177	4.5	6.19	162	530	6.26	160	524	6.330	158	518	6.400	156	513
	2 1/2	76.1	3.016	76.6	2.965	75.3	0.177	4.5	7.93	126	414	8.05	124	408	8.110	123	405	8.230	122	399
	3	88.9	3.524	89.5	3.465	88.0	0.197	5.0	10.30	97	319	10.50	95	312	10.510	95	312	10.680	94	307
	4	114.3	4.528	115.0	4.453	113.1	0.213	5.4	14.50	69	226	14.80	68	222	14.774	68	222	15.024	67	218
	5	139.7	5.543	140.8	5.453	138.5	0.213	5.4	17.90	56	183	18.40	54	178	18.238	55	180	18.738	53	175
6	165.1	6.555	166.5	6.453	163.9	0.213	5.4	21.30	47	154	21.90	46	150	21.702	46	151	22.302	45	147	



ASTM A53 : A106

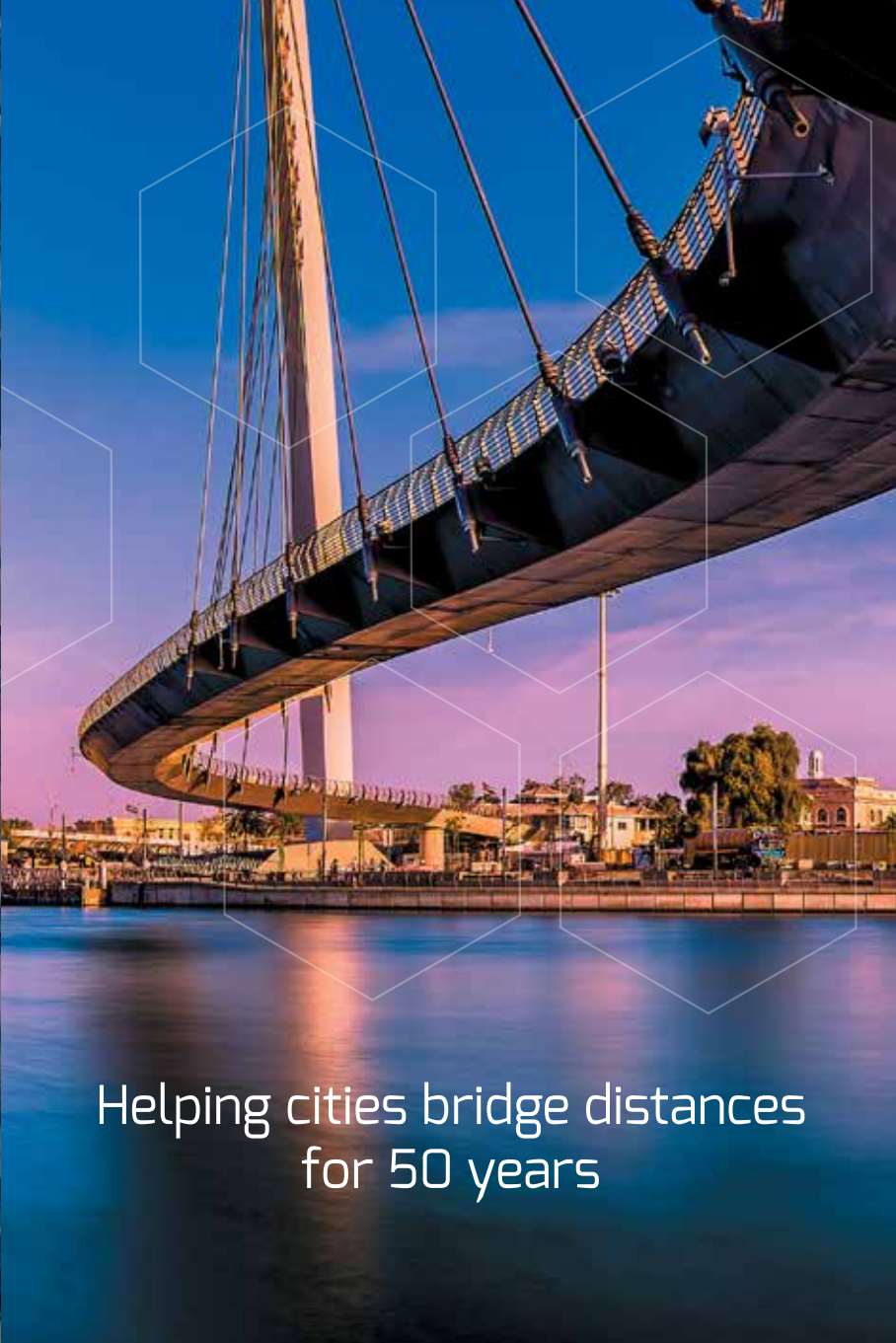
NP INCHES	OD MM	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	5S	10S	Vol/ mm ³	
1/8	10.30	wall thickness (mm)			1.73	1.73		2.41	2.41								1.24	0.0001
		weight (Kg/m)			0.37	0.37		0.47	0.47									0.28
1/4	13.70				2.24	2.24		3.02	3.02								1.65	0.0001
					0.63	0.63		0.80	0.80								0.51	
3/8	17.10				2.31	2.31		3.20	3.20								1.65	0.0003
					0.84	0.84		1.10	1.10								0.64	
1/2	21.30				2.77	2.77		3.73	3.73				4.78	7.47	1.65	2.11	0.0004	
					1.27	1.27		1.62	1.62				1.95	2.55	0.82	1.01		
3/4	26.70				2.87	2.87		3.91	3.91				5.56	7.82	1.65	2.11	0.0007	
					1.69	1.69		2.20	2.20				2.90	3.64	1.04	1.31		
1	33.40				3.38	3.38		4.55	4.55				6.35	9.09	1.65	2.77	0.00011	
					2.50	2.50		3.24	3.24				4.24	5.45	1.33	2.13		
1 1/4	42.20				3.56	3.56		4.85	4.85				6.35	9.70	1.65	2.77	0.0018	
					3.39	3.39		4.47	4.47				5.61	7.77	1.68	2.76		
1 1/2	48.30				3.68	3.68		5.08	5.08				7.14	10.15	1.65	2.77	0.0023	
					4.05	4.05		5.41	5.41				7.25	9.56	1.95	3.17		
2	60.30				3.91	3.91		5.54	5.54				8.74	11.07	1.65	2.77	0.0036	
					5.44	5.44		7.48	7.48				1.11	13.44	2.44	4.01		
2 1/2	73.00				5.16	5.16		7.01	7.01				9.53	14.02	2.11	3.05	0.0053	
					8.63	8.63		11.41	11.41				14.92	20.39	3.77	5.36		
3	88.90				5.49	5.49		7.62	7.62				11.13	15.24	2.11	3.05	0.0079	
					11.29	11.29		15.27	15.27				21.35	27.68	4.60	6.59		
3 1/2	101.60				5.74	5.74		8.08	8.08				-	-	2.11	3.05	0.0103	
					13.57	13.57		18.63	18.63				-	-	5.29	7.55		
4	114.30				6.02	6.02		8.56	8.56		11.13		13.49	17.12	2.11	3.05	0.0130	
					16.07	16.07		22.32	22.32		28.32		33.54	41.03	5.96	8.52		
5	141.30				6.55	6.55		9.53	9.53		12.70		15.88	19.05	2.77	3.40	0.0199	
					21.77	21.77		30.97	30.97		40.28		49.11	57.43	9.67	11.82		
6	168.30				7.11	7.11		10.97	10.97		14.27		18.26	21.95	2.77	3.40	0.0280	
					28.26	28.26		42.56	42.56		54.20		67.56	79.22	11.55	14.13		
8	219.10		6.35	7.04	8.18	8.18	10.30	12.70	12.70	15.09	18.26	20.62	23.01	22.23	2.77	3.76	0.0480	
			33.31	36.81	42.55	42.55	53.08	64.64	64.64	75.92	114.75	100.92	111.27	107.92	15.09	20.37		
10	273.10		6.35	7.80	9.27	9.27	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40	3.40	4.19	0.0740	
			41.77	51.03	60.31	60.31	81.55	81.55	96.01	114.75	133.06	155.15	172.33	155.15	23.08	28.34		



A.P.I SCHEDULE TUBE

NP INCHES	OD MM	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	5S	10S	Vol/mm ³
12	323.90		6.35	8.38	9.53	10.31	14.27	12.70	17.48	21.44	25.40	28.58	33.32	25.40	3.96	4.57	0.1040
			49.73	65.20	73.88	79.73	108.96	97.46	132.08	159.91	186.97	208.14	238.76	186.97	31.89	36.7	
14	355.60	6.35	7.92	9.53	9.53	11.13	15.09	12.70	19.05	23.83	27.79	31.75	35.71		3.96	34.78	0.1260
		54.69	67.90	81.33	81.33	94.55	126.71	107.39	158.10	194.96	224.65	253.56	281.70		35.0	42.14	
16	406.40	6.35	7.92	9.53	9.53	12.70	16.66	12.70	21.44	26.19	30.96	36.53	40.49		64.19	4.78	0.1650
		62.64	77.83	93.27	93.27	123.30	160.12	123.30	203.53	245.56	286.64	333.19	365.35		42.41	48.26	
18	457.00	6.35	7.92	11.13	9.53	14.27	19.05	12.70	23.88	29.36	34.93	39.67	45.24		4.19	7.78	0.2080
		70.57	87.71	122.38	105.16	155.80	205.74	139.15	254.55	309.62	363.56	408.26	459.37		47.77	60.46	
20	508.00	6.35	9.53	12.70	9.53	15.09	20.62	12.70	26.19	32.54	38.10	44.45	50.01		4.78	5.54	0.2580
		78.55	117.15	155.12	117.15	183.42	247.83	155.12	311.17	381.53	441.49	508.11	564.81		60.46	70.00	
22	559.00	6.35	9.53	12.70	9.53	-	22.23	12.70	28.58	34.93	41.28	47.63	53.98		4.78	5.54	0.3120
		86.54	129.13	171.09	129.13	-	294.25	171.09	373.83	451.42	527.02	600.63	672.26		66.57	70.06	
24	610.00	6.35	9.53	14.27	9.53	17.48	24.61	12.70	30.96	38.39	46.02	52.37	59.54		5.54	6.35	0.3720
		94.53	141.12	209.64	141.12	255.41	355.26	187.06	442.08	547.71	640.03	720.15	808.22		84.16	96.37	
26	660.00	7.92	12.70	-	9.53	-		12.70									0.4350
		127.36	202.72	-	152.87	-		202.72									
28	711.00	7.92	12.70	15.88	9.53	-		12.70									0.5050
		137.32	218.69	271.21	164.85	-		218.69							6.35	7.92	
30	762.00	7.92	12.70	15.88	9.53	-		12.70							120.72	150.36	0.5800
		147.28	234.67	292.18	176.84	-		234.67									
32	813.00	7.92	12.70	15.88	9.53	17.48		12.70									0.6600
		157.24	250.64	312.15	188.82	342.91		250.64									
34	864.00	7.92	12.70	15.88	9.53	17.48		12.70									0.7460
		167.20	266.61	332.12	200.31	364.90		266.61									
36	914.00	7.92	12.70	15.88	9.53	19.05		12.70									0.8350
		176.96	282.27	351.70	212.56	420.42		282.27									
38	965.00				9.53			12.70									0.9310
					224.54			298.24									
40	1016.00				9.53			12.70									1.0320
					236.53			314.22									
42	1067.00				9.53			12.70									1.1380
					248.52			330.19									
44	1118.00				9.53			12.70									1.2490
					260.50			346.16									
46	1168.00				9.53			12.70									1.3640
					272.25			351.82									
48	1219.00				9.53			12.70									1.4850
					284.24			377.79									





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