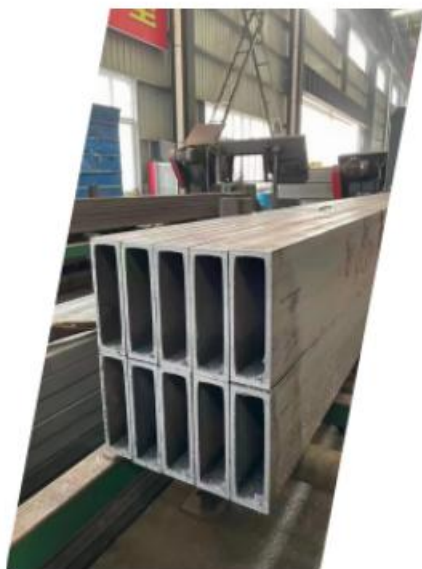




HOLLOW SECTIONS CATALOG BALING STEEL

HUNAN BALING STEEL CO.,LTD.

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HOLLOW SECTIONS



Information

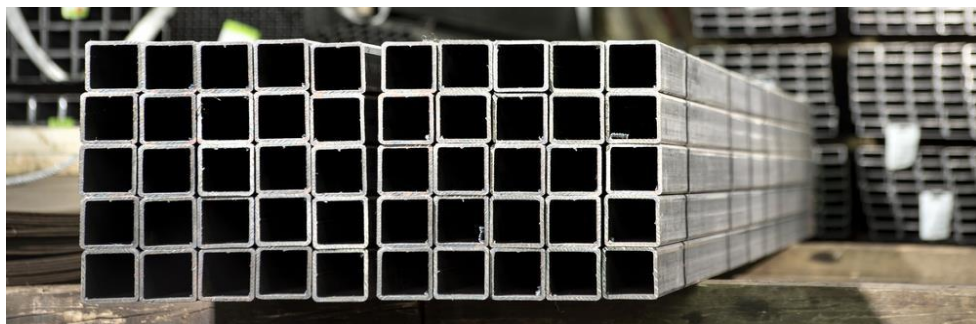
Steel hollow section, also known as structural steel tube or hollow structural section, is a type of steel that is formed into a hollow tubular section. Steel hollow sections are categorized into three main types, rectangular hollow sections (RHS), square hollow sections (SHS) and circular hollow sections (CHS). Each type of hollow section has its own attributes and used for a specific purpose. Available in both hot-finished and cold-formed finished, steel hollow sections possess good base mechanical properties, structural behaviour and can provide better aesthetics architecturally when compared to other structural sections.

Applications

Construction, architectural designs, food industry, pharmaceutical industry, offshore and marine industries, metro trains, railways, bus body building, transportation, process machineries and nuclear plants.

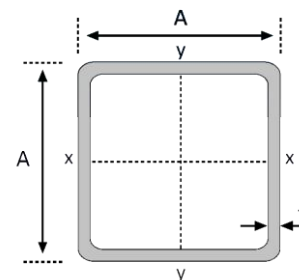
Features

- Good structural versatility
- High strength to weight ratio
- Corrosion resistant
- High pressure integrity
- High durability and ductility
- Cost effective



HOT FINISHED SQUARE HOLLOW SECTIONS

Material Specification: EN 100219 S275JR/J2H
EN 100219 S355JR/J2H

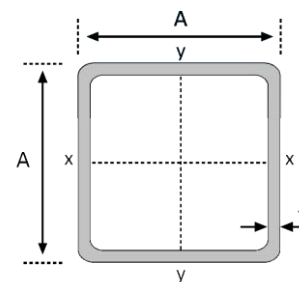


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
A x A	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
20 x 20	2	1.12	1.4	0.739	0.727	0.739	0.93	1.22	1.07	0.0748
	2.5	1.35	1.68	0.835	0.705	0.835	1.08	1.41	1.2	0.0736
25 x 25	2	1.41	1.8	1.56	0.932	1.25	1.53	2.52	1.81	0.0948
	2.5	1.74	2.18	1.81	0.909	1.44	1.82	2.97	2.08	0.0936
	3	2	2.54	2	0.886	1.6	2.06	3.35	2.3	0.0923
	3.2	2.15	2.68	2.06	0.877	1.65	2.15	3.48	2.37	0.0918
30 x 30	2.5	2.14	2.68	3.33	1.11	2.22	2.74	5.4	3.22	0.114
	3	2.47	3.14	3.74	1.09	2.5	3.14	6.16	3.6	0.112
	3.2	2.65	3.32	3.89	1.08	2.59	3.29	6.44	3.74	0.112
35 x 35	4	3.76	4.79	7.48	1.25	4.28	5.47	12.5	6.16	0.13
	6	5.16	6.57	8.81	1.16	5.03	6.91	15.4	7.19	0.125
40 x 40	2.5	2.92	3.68	8.54	1.52	4.27	5.14	13.6	6.22	0.154
	3	3.45	4.34	9.78	1.5	4.89	5.97	15.7	7.1	0.152
	3.2	3.66	4.6	10.2	1.49	5.11	6.28	16.5	7.42	0.152
	4	4.46	5.59	11.8	1.45	5.91	7.44	19.5	8.54	0.15
	5	5.4	6.73	13.4	1.41	6.68	8.66	22.5	9.6	0.147
45 x 45	4	5.01	6.39	17.6	1.66	7.82	9.71	28.7	11.3	0.17
	5	6.07	7.73	20.1	1.61	8.95	11.41	33.5	12.9	0.167
50 x 50	2.5	3.71	4.68	17.5	1.93	6.99	8.29	27.5	10.2	0.194
	3	4.39	5.54	20.2	1.91	8.08	9.7	32.1	11.8	0.192
	3.2	4.66	5.88	21.2	1.9	8.49	10.2	33.8	12.4	0.192
	4	5.72	7.19	25	1.86	9.99	12.3	40.4	14.5	0.19
	5	6.97	8.73	28.9	1.82	11.6	14.5	47.6	16.7	0.187
	6	8.15	10.2	32	1.77	12.8	16.5	53.6	18.4	0.185
	6.3	8.49	10.6	32.8	1.76	13.1	17	55.2	18.8	0.184
	8	10.31	12.7	35.2	1.7	14.1	19.2	60.9	20.1	0.179
	10	11.7	14.9	37.6	1.59	15	21.4	66.7	21.4	0.174

HOT FINISHED SQUARE HOLLOW SECTIONS

Material Specification: EN 100219 S275JR/J2H
EN 100219 S355JR/J2H

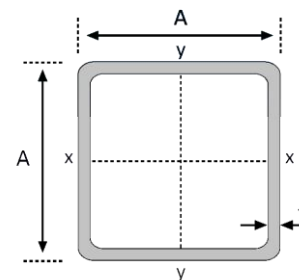


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
A x A	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
60 x 60	3	5.39	6.74	36.2	2.32	12.1	14.3	56.9	17.7	0.232
	3.2	5.67	7.16	38.2	2.31	12.7	15.2	60.2	18.6	0.232
	4	6.97	8.79	45.4	2.27	15.1	18.3	72.5	22	0.23
	5	8.54	10.7	53.3	2.23	17.8	21.9	86.4	25.7	0.227
	6	10	12.6	59.9	2.18	20	25.1	98.6	28.8	0.225
	6.3	10.5	13.1	61.6	2.17	20.5	26	102	29.6	0.224
	8	12.8	16	69.7	2.09	23.2	30.4	118	33.4	0.219
	10	14.9	18.9	75.5	2	25.2	34.4	131	36	0.214
70 x 70	3	6.28	7.94	59	2.73	16.9	19.9	92	24.8	0.272
	3.6	7.46	9.42	68.6	2.7	19.6	23.3	108	28.7	0.271
	5	10.1	12.7	88.5	2.64	25.3	30.8	142	36.8	0.267
	6	11.9	15	101	2.59	28.7	35.5	163	41.6	0.265
	6.3	12.5	15.6	104	2.58	29.7	36.9	169	42.9	0.264
	8	15.3	19.2	120	2.5	34.2	43.8	200	49.2	0.259
75 x 75	3.2	7.25	9.08	77.5	2.92	20.7	24.3	121	30.3	0.292
	4	8.93	11.2	93.2	2.89	24.8	29.6	147	36.3	0.29
	5	11	13.7	111	2.84	29.6	35.8	177	43	0.287
	6	12.9	16.2	126	2.8	33.7	41.4	204	48.9	0.285
	6.3	13.5	16.9	131	2.78	34.9	43	212	50.5	0.284
	8	16.6	20.8	152	2.71	40.5	51.3	252	58.4	0.279
	10	19.6	24.9	170	2.61	45.4	59.4	289	65.1	0.274
80 x 80	3	7.18	9.14	89.8	3.13	22.5	26.3	140	33	0.312
	3.2	7.15	9.56	92.7	3.11	23.2	27.3	148	34.9	0.309
	3.6	8.59	10.9	105	3.11	26.2	31	164	38.5	0.311
	5	11.7	14.7	137	3.05	34.2	41.1	217	49.8	0.307
	6	13.8	17.4	156	3	39.1	47.8	252	56.8	0.305
	6.3	14.4	18.1	162	2.99	40.5	49.7	262	58.7	0.304
	8	17.8	22.4	189	2.91	47.3	59.5	312	68.3	0.299
	10	21.1	26.9	214	2.82	53.5	69.3	360	76.8	0.294

HOT FINISHED SQUARE HOLLOW SECTIONS

Material Specification: EN 100219 S275JR/J2H
EN 100219 S355JR/J2H

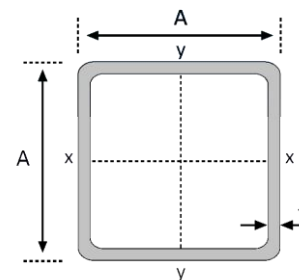


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
A x A	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
90 x 90	3.6	9.72	12.3	152	3.52	33.8	39.7	237	49.7	0.351
	5	13.3	16.7	200	3.45	44.4	53	316	64.8	0.347
	6	15.7	19.8	230	3.41	51.1	61.8	367	74.3	0.345
	6.3	16.4	20.7	238	3.4	53	64.3	382	77	0.344
	8	20.4	25.6	281	3.32	62.6	77.6	459	90.5	0.339
	10	24.3	30.9	322	3.23	71.6	91.3	536	103	0.334
100 x 100	4	12	15.2	232	3.91	46.4	54.4	361	68.2	0.39
	5	14.8	18.7	279	3.86	55.9	66.4	439	81.8	0.387
	6	17.6	22.2	323	3.82	64.6	77.6	513	94.3	0.385
	6.3	18.4	23.2	336	3.8	67.1	80.9	534	97.8	0.384
	8	22.9	28.8	400	3.73	79.9	98.2	646	116	0.379
	10	27.9	34.9	462	3.64	92.4	116	761	133	0.374
120 x 120	12	31.9	40.7	512	3.55	102	132	858	147	0.369
	5	18	22.7	498	4.68	83	97.6	777	122	0.467
	6	21.3	27	579	4.63	96.6	115	911	141	0.465
	6.3	22.3	28.2	603	4.62	100	120	950	147	0.464
	8	27.9	35.2	726	4.55	121	146	1160	176	0.459
	10	34.2	42.9	852	4.46	142	175	1382	206	0.454
140 x 140	12.5	41.6	52.1	982	4.34	164	207	1623	236	0.448
	5	21.1	26.7	807	5.5	115	135	1253	170	0.547
	6	25.1	31.8	944	5.45	135	159	1475	198	0.545
	8	32.9	41.6	1195	5.36	171	204	1892	249	0.539
	10	40.4	50.9	1416	5.27	202	246	2272	294	0.534
150 x 150	12.5	49.5	62.1	1653	5.16	236	293	2696	342	0.528
	5	22.7	28.7	1002	5.9	134	156	1550	197	0.587
	6	27	34.2	1174	5.86	156	184	1828	230	0.585
	6.3	28.3	35.8	1223	5.85	163	192	1909	240	0.584
	8	35.4	44.8	1491	5.77	199	237	2351	291	0.579
	10	43.6	54.9	1773	5.68	236	286	2832	344	0.574
	12.5	52.4	67.1	2080	5.57	277	342	3375	402	0.568
160 x 160	16	66.4	83	2430	5.41	324	411	4026	467	0.559

HOT FINISHED SQUARE HOLLOW SECTIONS

Material Specification: EN 100219 S275JR/J2H
EN 100219 S355JR/J2H

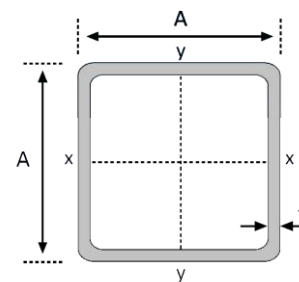


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
A x A	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
160 x 160	12.5	57.3	72.1	2576	5.98	322	395	4158	467	0.608
	16	70.2	89.4	3028	5.82	379	476	4988	546	0.599
180 x 180	6	32.6	41.4	2077	7.09	231	269	3215	340	0.705
	6.3	34.2	43.3	2168	7.07	241	281	3361	355	0.704
	8	43	54.4	2661	7	296	349	4162	434	0.699
	10	53	66.9	3193	6.91	355	424	5048	518	0.694
	12.5	65.2	82.1	3790	6.8	421	511	6070	613	0.688
	16	81.4	102	4504	6.64	500	621	7343	724	0.679
200 x 200	5	30.5	38.7	2445	7.95	245	283	3756	362	0.787
	6	36.4	46.2	2883	7.9	288	335	4449	426	0.785
	6.3	38.2	48.4	3011	7.89	301	350	4653	444	0.784
	8	48	60.8	3709	7.81	371	436	5778	545	0.779
	10	59.3	74.9	4471	7.72	447	531	7031	655	0.774
	12.5	73	92.1	5336	7.61	534	643	8491	778	0.768
	16	91.5	115	6394	7.46	639	785	10340	927	0.759
220 x 220	5	33.5	42.7	3281	8.76	298	344	5028	442	0.867
	6	40	51	3875	8.72	352	408	5963	521	0.865
	8	52.7	67.2	5002	8.63	455	532	7765	669	0.859
	10	65.1	82.9	6050	8.54	550	650	9473	807	0.854
	12	77.2	98.3	7023	8.45	638	762	11090	933	0.849
	14	88.9	113	7922	8.36	720	868	12620	1049	0.844
250 x 250	6	45.8	58.2	5752	9.94	460	531	8825	681	0.985
	6.3	48.1	61	6014	9.93	481	556	9238	712	0.984
	8	60.5	76.8	7455	9.86	596	694	11530	880	0.979
	10	75	94.9	9055	9.77	724	851	14110	1065	0.974
	12.5	92.6	117	10920	9.66	873	1037	17160	1279	0.968
	16	117	147	13270	9.5	1061	1280	21140	1546	0.959

HOT FINISHED SQUARE HOLLOW SECTIONS

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EN 100219 S355JR/J2H

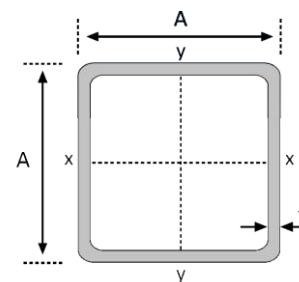


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
A x A	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
260 x 260	6	47.6	60.6	6491	10.4	499	576	9951	740	1.02
	6.3	49.9	63.5	6788	10.3	522	603	10420	773	1.02
	8	62.8	80	8423	10.3	648	753	13010	956	1.02
	10	77.7	98.9	10240	10.2	788	924	15930	1159	1.01
	12	92.2	117	11950	10.1	920	1087	18730	1348	1.01
	12.5	95.8	122	12370	10.1	951	1127	19410	1394	1.01
	14	106	136	13560	10	1043	1244	21400	1525	1
	14.2	108	137	13710	9.99	1055	1259	21660	1542	1
	16	120	153	15060	9.91	1159	1394	23940	1689	1
300 x 300	6	55.1	70	10080	12	672	772	15407	997	1.18
	6.3	57.95	73.6	10550	12	703	809	16140	1043	1.18
	8	73.1	92.8	13130	11.9	875	1013	20190	1294	1.18
	9	81.93	104	14600	11.9	973	1130	22520	1437	1.18
	10	90.7	115	16030	11.8	1068	1246	24810	1575	1.17
	12	107.97	137	18780	11.7	1252	1470	29250	1840	1.17
	12.5	112	142	19440	11.7	1296	1525	30330	1904	1.17
	16	142	179	23850	11.5	1590	1895	37620	2325	1.16
350 x 350	6	64.5	82.2	16170	14	924	1058	24650	1373	1.38
	8	85.7	109	21130	13.9	1207	1392	32380	1789	1.38
	10	106	135	25880	13.9	1479	1715	39890	2185	1.37
	12	127	161	30440	13.8	1739	2030	47150	2563	1.37
	12.5	132	167	31540	13.7	1802	2107	48930	2654	1.37
	14	146	186	34790	13.7	1988	2334	54190	2922	1.36
	14.2	148	189	35210	13.7	2012	2364	54880	2957	1.36
	16	167	211	38940	13.6	2225	2630	60990	3264	1.36
	19	190	248	44820	13.5	2561	3055	70760	3744	1.35
	22	217	283	50270	13.3	2873	3460	80010	4187	1.34
	25	242	318	55320	13.2	3161	3845	88750	4595	1.34

HOT FINISHED SQUARE HOLLOW SECTIONS

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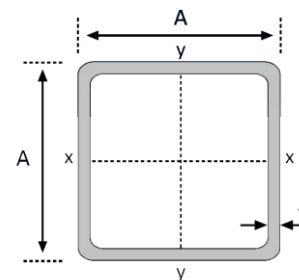


(Metric units)

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A x A	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
400 x 400	8	97.9	125	31860	16	1593	1830	48700	2363	1.58
	10	122	155	39130	15.9	1956	2260	60090	2895	1.57
	12	145	185	46130	15.8	2306	2679	71180	3405	1.57
	12.5	152	192	47840	15.8	2392	2782	73910	3530	1.57
	14	168	214	52870	15.7	2643	3087	81960	3894	1.56
	14.2	170	217	53530	15.7	2676	3127	83030	3942	1.56
	16	192	243	59340	15.6	2967	3484	92440	4362	1.56
	20	237	300	71540	15.4	3577	4247	112500	5237	1.55
	22	251	327	77260	15.4	3863	4612	122100	5646	1.54
	25	282	368	85380	15.2	4269	5141	135900	6223	1.54
450 x 450	12	162	209	66460	17.8	2954	3419	102200	4368	1.77
	16	213	275	85860	17.7	3816	4459	133200	5620	1.76
	19	250	324	99540	17.5	4424	5208	155400	6497	1.75
	22	286	371	112500	17.4	5000	5929	176700	7324	1.74
	25	321	418	124700	17.3	5544	6624	197200	8101	1.74
	28	355	464	136300	17.1	6058	7292	216800	8832	1.73
	32	399	524	150700	17	6696	8143	241700	9735	1.72
500 x 500	12	181	233	92030	19.89	3681	4248	141200	5451	1.97
	16	238	307	119300	19.71	4771	5554	184400	7038	1.96
	19	280	362	138600	19.58	5545	6498	215500	8159	1.95
	22	320	415	157100	19.44	6283	7411	245600	9222	1.94
	25	360	468	174600	19.31	6986	8295	274600	10230	1.94
	28	399	520	191300	19.18	7653	9149	302600	11180	1.93
	32	450	588	212300	19	8491	10242	338200	12370	1.92
	36	498	654	231700	18.82	9269	11283	372000	13470	1.91

HOT FINISHED SQUARE HOLLOW SECTIONS

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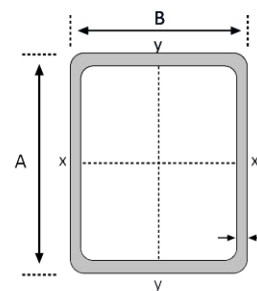


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
A x A	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
550 x 550	16	263	339	160400	21.75	5833	6769	247300	8616	2.16
	19	309	400	186800	21.62	6793	7930	289500	10010	2.15
	22	355	459	212100	21.49	7714	9058	330400	11340	2.14
	25	399	518	236300	21.35	8594	10150	370100	12610	2.14
	28	443	576	259500	21.22	9436	11220	408400	13810	2.13
	32	500	652	288700	21.04	10500	12580	457500	15330	2.12
	36	555	726	316100	20.86	11500	13890	504400	16740	2.11
	40	608	799	341800	20.68	12430	15140	549000	18060	2.1
600 x 600	25	439	568	311100	23.4	10370	12200	485300	15230	2.34
	28	487	632	342100	23.26	11410	13490	536300	16720	2.33
	32	550	716	381600	23.08	12720	15160	601900	18600	2.32
	36	611	798	418800	22.91	13960	16770	664900	20370	2.31
	40	671	879	453900	22.73	15130	18310	725100	22030	2.3
700 x 700	25	517	668	504700	27.48	14420	16850	782900	21240	2.74
	28	575	744	556600	27.35	15900	18670	867000	23380	2.73
	32	651	844	623100	27.17	17800	21040	975800	26110	2.72
	36	724	942	686500	26.99	19610	23330	1081000	28700	2.71
	40	797	1039	746900	26.81	21340	25540	1182000	31160	2.7

HOT FINISHED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 100219 S275JR/J0/J2H
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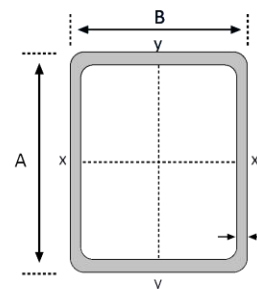


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
50 x 25	2.5	2.72	3.43	10.4	3.39	1.74	0.994	4.16	2.71	5.33	3.22	8.42	4.61	0.144
	3	3.22	4.04	11.9	3.83	1.72	0.973	4.76	3.06	6.18	3.71	9.64	5.2	0.142
	3.2	3.41	4.28	12.5	3.98	1.71	0.964	4.98	3.18	6.5	3.89	10.1	5.41	0.142
	4	4.07	5.19	14.4	4.48	1.66	0.929	5.75	3.59	7.67	4.54	11.6	6.11	0.14
50 x 30	2.5	2.92	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	3.45	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	3.66	4.6	14.2	6.2	1.76	1.16	5.68	4.13	7.25	5	14.2	6.8	0.152
	4	4.46	5.59	16.5	7.08	1.72	1.13	6.6	4.72	8.59	5.88	16.6	7.77	0.15
	5	5.4	6.73	18.7	7.89	1.67	1.08	7.49	5.26	10	6.8	19	8.67	0.147
60 x 40	2.5	3.71	4.68	22.8	12.1	2.21	1.6	7.61	6.03	9.32	7.02	25.1	9.73	0.194
	3	4.39	5.54	26.5	13.9	2.18	1.58	8.82	6.95	10.9	8.19	29.2	11.2	0.192
	3.2	4.66	5.88	27.8	14.6	2.18	1.57	9.27	7.29	11.5	8.64	30.8	11.7	0.192
	4	5.72	7.19	32.8	17	2.14	1.54	10.9	8.52	13.8	10.3	36.7	13.7	0.19
	5	6.97	8.73	38.1	19.5	2.09	1.5	12.7	9.77	16.4	12.2	43	15.7	0.187
	6	8.15	10.2	42.3	21.4	2.04	1.45	14.1	10.7	18.6	13.7	48.2	17.3	0.185
	6.3	8.49	10.6	43.4	21.9	2.02	1.44	14.5	11	19.2	14.2	49.5	17.6	0.184
	8	10	12.8	47.9	23.7	1.94	1.36	16	11.9	22.1	16.1	55.4	19.2	0.179
80 x 40	3	5.34	6.74	54.2	18	2.84	1.63	13.6	9	17.1	10.4	43.8	15.3	0.232
	3.2	5.67	7.16	57.2	18.9	2.83	1.63	14.3	9.46	18	11	46.2	16.1	0.232
	4	6.97	8.79	68.2	22.2	2.79	1.59	17.1	11.1	21.8	13.2	55.2	18.9	0.23
	5	8.54	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	10	12.6	90.5	28.5	2.68	1.5	22.6	14.2	30	17.8	73.4	24.2	0.225
	6.3	10.5	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	12.8	16	106	32.1	2.58	1.42	26.5	16.1	36.5	21.2	85.8	27.4	0.219
	10	14.9	18.9	115	33.7	2.47	1.33	28.8	16.9	41.3	23.5	92.5	28.9	0.214
80 x 50	3	5.81	7.34	63.1	30.2	2.93	2.03	15.8	12.1	19.4	13.9	64.8	19.7	0.252
	4	7.53	9.59	79.8	37.7	2.88	1.98	19.9	15.1	24.9	17.8	82.6	24.6	0.25
	5	9.33	11.7	94.4	44.1	2.84	1.94	23.6	17.7	29.9	21.3	98.4	28.8	0.247
	6	11	13.8	107	49.5	2.79	1.9	26.8	19.8	34.4	24.4	112	32.3	0.245
	8	14.11	17.6	127	57.4	2.69	1.81	31.7	23	42.2	29.6	135	37.5	0.239
	10	16.4	20.9	140	62.1	2.59	1.72	35	24.8	48.3	33.4	150	40.6	0.234

HOT FINISHED RECTANGULAR HOLLOW SECTIONS

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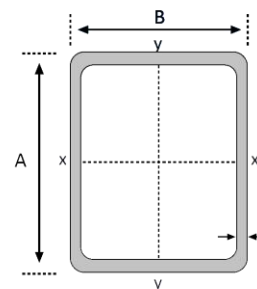


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
90 x 50	3	6.28	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	7.46	9.42	98.3	38.7	3.23	2.03	21.8	15.5	27.2	18	89.4	25.9	0.271
	4	8.15	10.4	107	41.9	3.21	2.01	23.8	16.8	29.8	19.6	97.5	28	0.27
	5	10.1	12.7	127	49.2	3.16	1.97	28.3	19.7	36	23.5	116	32.9	0.267
	6	11.9	15	145	55.4	3.11	1.92	32.2	22.1	41.6	27	133	37	0.265
	6.3	12.5	15.6	150	57	3.1	1.91	33.3	22.8	43.2	28	138	38.1	0.264
	8	15.3	19.2	174	64.6	3.01	1.84	38.6	25.8	51.4	32.9	160	43.2	0.259
	10	18	22.9	194	70.2	2.91	1.75	43	28.1	59.3	37.4	179	47.1	0.254
100 x 50	3	6.75	8.54	110	36.8	3.58	2.08	21.9	14.7	27.3	16.8	88.4	25	0.292
	3.2	7.18	9.08	116	38.8	3.57	2.07	23.2	15.5	28.9	17.7	93.4	26.4	0.292
	4	8.86	11.2	140	46.2	3.53	2.03	27.9	18.5	35.2	21.5	113	31.4	0.29
	5	10.9	13.7	167	54.3	3.48	1.99	33.3	21.7	42.6	25.8	135	36.9	0.287
	6	12.9	16.2	190	61.2	3.43	1.95	38.1	24.5	49.4	29.7	154	41.6	0.285
	6.3	13.4	16.9	197	63	3.42	1.93	39.4	25.2	51.3	30.8	160	42.9	0.284
	8	16.6	20.8	230	71.7	3.33	1.86	46	28.7	61.4	36.3	186	48.9	0.279
	10	19.6	24.9	259	78.4	3.22	1.77	51.8	31.4	71.2	41.4	209	53.6	0.274
100 x 60	3	7.22	9.14	124	55.7	3.68	2.47	24.7	18.6	30.2	21.2	121	30.7	0.312
	3.6	8.59	10.9	145	64.8	3.65	2.44	28.9	21.6	35.6	24.9	142	35.6	0.311
	5	11.7	14.7	189	83.6	3.58	2.38	37.8	27.9	47.4	32.9	188	45.9	0.307
	6	13.8	17.4	217	95	3.53	2.34	43.4	31.7	55.1	38.1	216	52.1	0.305
	6.3	14.4	18.1	225	98.1	3.52	2.33	45	32.7	57.3	39.5	224	53.8	0.304
	8	17.8	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	9.72	12.3	227	76.3	4.3	2.49	37.9	25.4	47.2	28.9	183	43.3	0.351
	4	10.7	13.6	249	83.1	4.28	2.47	41.5	27.7	51.9	31.7	201	47.1	0.35
	5	13.3	16.7	299	98.8	4.23	2.43	49.9	32.9	63.1	38.4	242	56	0.347
	6	15.7	19.8	345	113	4.18	2.39	57.5	37.5	73.6	44.5	279	63.8	0.345
	6.3	16.4	20.7	358	116	4.16	2.37	59.7	38.8	76.7	46.3	290	65.9	0.344
	8	20.4	25.6	425	135	4.08	2.3	70.8	45	92.7	55.4	344	76.6	0.339
	10	24.3	30.9	488	152	3.97	2.21	81.4	50.5	109.2	64.4	396	86.1	0.334

HOT FINISHED RECTANGULAR HOLLOW SECTIONS

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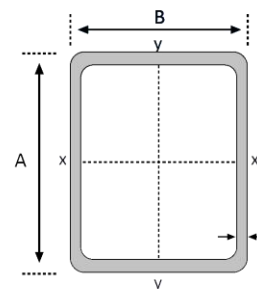


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
120 x 80	5	14.8	18.7	365	193	4.42	3.21	60.9	48.2	74.6	56.1	401	77.9	0.387
	6	17.6	22.2	423	222	4.37	3.17	70.6	55.6	87.3	65.5	468	89.6	0.385
	6.3	18.4	23.2	440	230	4.36	3.15	73.3	57.6	91	68.2	487	92.9	0.384
	8	22.9	28.8	525	273	4.27	3.08	87.5	68.1	111	82.6	587	110	0.379
	10	27.9	34.9	609	313	4.18	2.99	102	78.1	131	97.3	688	126	0.374
150 x 100	5	18.7	23.7	739	392	5.58	4.07	98.5	78.5	119	90.1	807	127	0.487
	6	22.3	28.2	862	456	5.53	4.02	115	91.2	141	106	946	147	0.485
	6.3	23.3	29.5	898	474	5.52	4.01	120	94.8	147	110	986	153	0.484
	8	29.1	36.8	1087	569	5.44	3.94	145	114	180	135	1203	183	0.479
	10	35.7	44.9	1282	665	5.34	3.85	171	133	216	161	1432	214	0.474
	12	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	4.5	16.24	20.6	679	229	5.75	3.33	84.9	57.1	106	64.8	547	97.2	0.468
	5	18	22.7	744	249	5.72	3.31	93	62.3	116	71.1	600	106	0.467
	6	21.3	27	868	288	5.67	3.27	108	72	136	83.3	701	122	0.465
	6.3	22.3	28.2	903	299	5.66	3.26	113	74.8	142	86.8	730	127	0.464
	8	27.9	35.2	1091	356	5.57	3.18	136	89	175	106	883	151	0.459
	10	34.2	42.9	1284	411	5.47	3.1	161	103	209	125	1041	175	0.454
	12	39.5	50.3	1449	455	5.37	3.01	181	114	240	142	1175	194	0.449
	12.5	41.6	52.1	1485	465	5.34	2.99	186	116	247	146	1204	198	0.448
200 x 100	5	22.6	28.7	1495	505	7.21	4.19	149	101	185	114	1204	172	0.587
	6	27	34.2	1754	589	7.16	4.15	175	118	218	134	1414	200	0.585
	6.3	28.3	35.8	1829	613	7.15	4.14	183	123	228	140	1475	208	0.584
	8	35.4	44.8	2234	739	7.06	4.06	223	148	282	172	1804	251	0.579
	10	43.6	54.9	2664	869	6.96	3.98	266	174	341	206	2156	295	0.574
	12	50.8	64.7	3047	979	6.86	3.89	305	196	395	237	2469	333	0.569
	12.5	53.4	67.1	3136	1004	6.84	3.87	314	201	408	245	2541	341	0.568
	16	66.4	83	3678	1147	6.66	3.72	368	229	491	290	2982	391	0.559

HOT FINISHED RECTANGULAR HOLLOW SECTIONS

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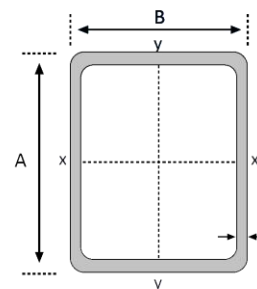


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
200 x 120	5	24.1	30.7	1690	762	7.4	4.98	168	127	205	144	1650	210	0.627
	6.3	30.1	38.3	2070	929	7.34	4.92	207	155	253	177	2030	255	0.624
	8	37.6	48	2530	1130	7.26	4.85	253	188	313	218	2490	310	0.619
	10	46.3	58.9	3030	1340	7.17	4.76	303	223	379	263	3000	367	0.614
	12.5	55.7	71.7	3468	1524	6.99	4.63	347	254	444	308	3568	426	0.608
	16	71.38	89.4	4221	1813	6.87	4.5	422	302	550	377	4247	497	0.599
200 x 150	6	31.7	40.2	2318	1485	7.6	6.08	232	198	277	227	2820	313	0.685
	6.3	33.22	42.1	2420	1549	7.58	6.07	242	207	289	237	2947	326	0.684
	8	41.7	52.8	2971	1894	7.5	5.99	297	253	359	294	3643	398	0.679
	9	46.6	58.9	3276	2084	7.46	5.95	328	278	398	325	4033	437	0.677
	10	51.4	64.9	3568	2264	7.41	5.91	357	302	436	356	4409	475	0.674
	12	60.9	76.7	4109	2596	7.32	5.82	411	346	508	414	5119	543	0.669
	12.5	63.2	79.6	4236	2673	7.3	5.8	424	356	525	428	5287	559	0.668
250 x 150	6	36.4	46.2	3965	1796	9.27	6.24	317	239	385	270	3877	396	0.785
	6.3	38	48.4	4143	1874	9.25	6.22	331	250	402	283	4054	413	0.784
	8	48	60.8	5111	2298	9.17	6.15	409	306	501	350	5021	506	0.779
	10	59.3	74.9	6174	2755	9.08	6.06	494	367	611	426	6090	605	0.774
	12.5	73	92.1	7387	3265	8.96	5.96	591	435	740	514	7326	717	0.768
	16	91.5	115	8879	3873	8.79	5.8	710	516	906	625	8868	849	0.759
300 x 100	5	30.52	38.7	4146	731	10.3	4.34	276	146	354	161	2040	262	0.787
	6	36.2	46.2	4893	854	10.3	4.3	326	171	419	190	2399	306	0.785
	6.3	38	48.4	5111	890	10.3	4.29	341	178	439	199	2504	319	0.784
	8	48	61.1	6386	1087	10.2	4.22	426	217	551	247	3066	387	0.78
	10	58.8	74.9	7613	1275	10.1	4.13	508	255	666	296	3676	458	0.774
	12	70.3	88.7	8818	1447	9.97	4.04	588	289	779	343	4223	520	0.769
	16	91.5	117	11240	1747	9.82	3.87	749	349	1008	431	5142	620	0.769

HOT FINISHED RECTANGULAR HOLLOW SECTIONS

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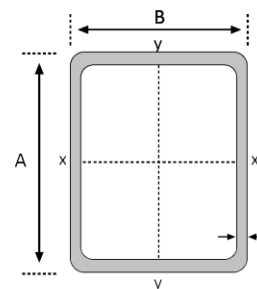


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
300 x 200	6	45.8	58.2	7486	4013	11.3	8.31	499	401	596	451	8100	651	0.985
	6.3	48.1	61	7829	4193	11.3	8.29	522	419	624	472	8476	681	0.984
	8	60.5	76.8	9717	5184	11.3	8.22	648	518	779	589	10560	840	0.979
	10	75	94.9	11820	6278	11.2	8.13	788	628	956	721	12910	1015	0.974
	12	89.15	113	13800	7294	11.1	8.05	920	729	1124	847	15140	1178	0.969
	12.5	92.6	117	14270	7537	11	8.02	952	754	1165	877	15680	1217	0.968
	16	117	147	17390	9109	10.9	7.87	1159	911	1441	1080	19250	1468	0.959
300 x 250	6.3	53	67.5	9239	6984	11.7	10.2	616	559	720	636	12140	862	1.082
	8	66.8	85.1	11500	8682	11.6	10.1	767	695	902	796	15170	1067	1.077
	10	82.8	106	14050	10580	11.5	10	937	847	1109	978	18600	1295	1.071
	12.5	102	130	17050	12810	11.4	9.91	1137	1025	1358	1196	22680	1561	1.065
	16	129	165	20930	15670	11.3	9.76	1395	1254	1689	1485	28020	1898	1.055
350 x 150	6.3	48.1	61	9551	2537	12.5	6.44	546	338	680	375	6383	587	0.974
	8	60.5	77	11880	3125	12.4	6.36	679	417	851	467	7917	721	0.974
	10	75	94.9	14320	3737	12.3	6.27	818	498	1035	566	9633	867	0.974
	12.5	92.6	117	17300	4450	12.2	6.17	988	593	1263	686	11620	1032	0.968
	16	117	149	21500	5386	12	6.02	1229	718	1586	850	14110	1235	0.968
350 x 250	8	73.1	93	16560	9854	13.3	10.3	946	788	1124	892	19010	1255	1.18
	10	90.7	116	20270	12020	13.2	10.2	1158	963	1385	1098	23330	1526	1.18
	12.5	112	143	24680	14580	13.1	10.1	1410	1166	1700	1345	28490	1843	1.18
	16	142	181	30440	17860	13	9.95	1739	1429	2121	1672	35280	2248	1.18
400 x 120	6.3	50	63.7	11880	1752	13.7	5.24	594	292	766	322	5035	527	1.03
	8	63.1	80.3	14790	2146	13.6	5.17	740	358	960	399	6212	645	1.02
	10	78.1	99.5	18050	2569	13.5	5.08	903	428	1180	486	7501	771	1.02
	12.5	96.6	123	21900	3040	13.3	4.97	1095	507	1444	588	8973	912	1.01
400 x 150	6.3	53	67.5	13350	2863	14.1	6.51	667	382	841	420	7588	673	1.09
	8	66.8	85.1	16630	3528	14	6.44	832	470	1054	524	9415	828	1.08
	10	82.8	106	20340	4257	13.9	6.35	1017	568	1297	640	11450	998	1.08
	12.5	102	130	24720	5087	13.8	6.24	1236	678	1589	778	13820	1191	1.07
	16	129	165	30400	6108	13.6	6.09	1520	814	1978	957	16810	1427	1.06

HOT FINISHED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 100219 S275JR/J0/J2H
EN 100219 S355JR/J0/J2H

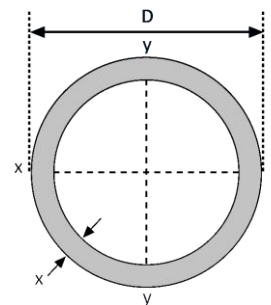


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Radius Of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants		Surface Area Per Metre
A x B	t	M	A	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m
400 x 200	6.3	57.9	73.6	15700	5376	14.6	8.55	785	538	960	594	12610	917	1.18
	8	73.1	92.8	19560	6660	14.5	8.47	978	666	1203	743	15740	1135	1.18
	10	90.7	115	23910	8084	14.4	8.39	1196	808	1480	911	19260	1376	1.17
	12.5	112	142	29060	9738	14.3	8.28	1453	974	1813	1111	23440	1656	1.17
	16	142	179	35740	11820	14.1	8.13	1787	1182	2256	1374	28870	2010	1.16
400 x 300	8	85.7	109	25860	16620	15.4	12.3	1293	1108	1524	1252	30980	1749	1.37
	10	106	136	31750	20360	15.3	12.3	1587	1357	1882	1544	38140	2136	1.37
	12.5	132	168	38800	24800	15.2	12.2	1940	1654	2316	1898	46750	2593	1.37
	16	167	213	48100	30620	15	12	2405	2041	2899	2371	58200	3186	1.37
450 x 250	8	85.4	109	30080	12140	16.6	10.6	1337	971	1622	1081	27080	1629	1.38
	10	106	135	36900	14820	16.5	10.5	1640	1185	2000	1331	33280	1986	1.37
	12.5	132	167	45030	17970	16.4	10.4	2001	1438	2458	1631	40720	2406	1.37
	16	167	211	55710	22040	16.2	10.2	2476	1763	3070	2029	50550	2947	1.36
500 x 200	8	85.7	109	34270	8170	17.7	8.7	1371	817	1716	900	21100	1430	1.37
	10	106	135	41760	9891	17.6	8.6	1670	989	2105	1101	25870	1737	1.37
	12.5	132	168	51510	12020	17.5	8.5	2060	1202	2609	1354	31480	2097	1.37
	16	167	213	63930	14670	17.3	8.31	2557	1467	3267	1683	38830	2554	1.37
500 x 300	10	122	155	53760	24440	18.6	12.6	2150	1629	2595	1826	52450	2696	1.57
	12.5	152	192	65810	29780	18.5	12.5	2633	1985	3196	2244	64390	3281	1.57
	16	192	243	81780	36770	18.3	12.3	3271	2451	4005	2804	80330	4044	1.56
	20	237	302	100100	44550	18.2	12.1	4006	2970	4942	3442	97310	4845	1.55

HOT FINISHED CIRCULAR HOLLOW SECTIONS

Material Specification: EN 10210 S355J2H

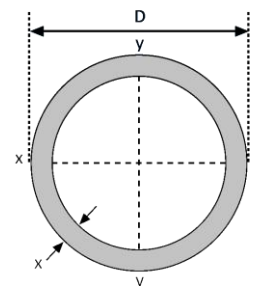


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness							J	C	
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
21.3	2.3	1.08	1.37	0.629	0.677	0.59	0.834	1.26	1.18	0.0669
	3.2	1.43	1.82	0.768	0.65	0.722	1.06	1.54	1.44	0.0669
26.9	2.3	1.4	1.78	1.36	0.874	1.01	1.4	2.71	2.02	0.0845
	3.2	1.87	2.38	1.7	0.846	1.27	1.81	3.41	2.53	0.0845
33.7	2.6	1.99	2.54	3.09	1.1	1.84	2.52	6.19	3.67	0.106
	2.9	2.2	2.81	3.36	1.09	1.99	2.76	6.71	3.98	0.106
	3	2.27	2.89	3.44	1.09	2.04	2.84	6.88	4.08	0.106
	3.2	2.41	3.07	3.6	1.08	2.14	2.99	7.21	4.28	0.106
	4	2.93	3.73	4.19	1.06	2.49	3.55	8.38	4.97	0.106
	5	3.54	4.51	4.78	1.03	2.84	4.16	9.57	5.68	0.106
42.4	2.6	2.55	3.25	6.46	1.41	3.05	4.12	12.9	6.1	0.133
	2.9	2.82	3.6	7.06	1.4	3.33	4.53	14.1	6.66	0.133
	3	2.91	3.71	7.25	1.4	3.42	4.67	14.5	6.84	0.133
	3.2	3.09	3.94	7.62	1.39	3.59	4.93	15.2	7.19	0.133
	3.6	3.44	4.39	8.33	1.38	3.93	5.44	16.7	7.86	0.133
	4	3.79	4.83	8.99	1.36	4.24	5.92	18	8.48	0.133
	5	4.61	5.87	10.5	1.33	4.93	7.04	20.9	9.86	0.133
	6.3	5.61	7.14	12	1.3	5.66	8.29	24	11.3	0.133
48.3	8	6.79	8.65	13.5	1.25	6.36	9.64	27	12.7	0.133
	2.5	2.82	3.6	9.46	1.62	3.92	5.25	18.9	7.83	0.152
	2.6	2.93	3.73	9.78	1.62	4.05	5.44	19.6	8.1	0.152
	2.9	3.25	4.14	10.7	1.61	4.43	5.99	21.4	8.86	0.152
	3	3.35	4.27	11	1.61	4.55	6.17	22	9.11	0.152
	3.2	3.56	4.53	11.6	1.6	4.8	6.52	23.2	9.59	0.152
	4	4.37	5.57	13.8	1.57	5.7	7.87	27.5	11.4	0.152
	5	5.34	6.8	16.2	1.54	6.69	9.42	32.3	13.4	0.152
	6.3	6.53	8.31	18.7	1.5	7.76	11.2	37.5	15.5	0.152
	8	7.95	10.1	21.4	1.45	8.85	13.2	42.7	17.7	0.152

HOT FINISHED CIRCULAR HOLLOW SECTIONS

Material Specification: EN 10210 S355J2H

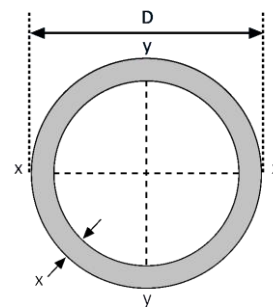


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness									
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
60.3	2.5	3.56	4.54	19	2.05	6.3	8.36	38	12.6	0.189
	2.6	3.7	4.71	19.7	2.04	6.52	8.66	39.3	13	0.189
	3	4.24	5.4	22.2	2.03	7.37	9.86	44.4	14.7	0.189
	3.2	4.51	5.74	23.5	2.02	7.78	10.4	46.9	15.6	0.189
	4	5.55	7.07	28.2	2	9.34	12.7	56.3	18.7	0.189
	5	6.82	8.69	33.5	1.96	11.1	15.3	67	22.2	0.189
	6.3	8.39	10.7	39.5	1.92	13.1	18.5	79	26.2	0.189
	8	10.32	13.1	46	1.87	15.3	22.1	92	30.5	0.189
	10	12.4	15.8	52	1.81	17.2	25.6	104	34.5	0.189
76.1	2.5	4.54	5.78	39.2	2.6	10.3	13.5	78.4	20.6	0.239
	2.6	4.71	6	40.6	2.6	10.7	14.1	81.2	21.3	0.239
	3	5.41	6.89	46.1	2.59	12.1	16	92.2	24.2	0.239
	3.2	5.75	7.33	48.8	2.58	12.8	17	97.6	25.6	0.239
	4	7.11	9.06	59.1	2.55	15.5	20.8	118	31	0.239
	5	8.77	11.2	70.9	2.52	18.6	25.3	142	37.3	0.239
	6	10.37	13.2	81.8	2.49	21.5	29.6	164	43	0.239
	6.3	10.84	13.8	84.8	2.48	22.3	30.8	170	44.6	0.239
	8	13.44	17.1	101	2.42	26.4	37.3	201	52.9	0.239
	10	16.3	20.8	116	2.36	30.5	44	232	61	0.239
	12	18.97	24.2	128	2.31	33.8	49.9	257	67.5	0.239
88.9	2.5	5.33	6.79	63.4	3.06	14.3	18.7	127	28.5	0.279
	3	6.36	8.1	74.8	3.04	16.8	22.1	150	33.6	0.279
	3.2	6.76	8.62	79.2	3.03	17.8	23.5	158	35.6	0.279
	3.6	7.57	9.65	87.9	3.02	19.8	26.2	176	39.5	0.279
	4	8.38	10.7	96.3	3	21.7	28.9	193	43.3	0.279
	5	10.35	13.2	116	2.97	26.2	35.2	233	52.4	0.279
	6	12.27	15.6	135	2.94	30.4	41.3	270	60.7	0.279
	6.3	12.83	16.3	140	2.93	31.5	43.1	280	63.1	0.279
	8	15.96	20.3	168	2.87	37.8	52.5	336	75.6	0.279
	10	19.46	24.8	196	2.81	44.1	62.6	392	88.2	0.279
	12	22.76	29	220	2.75	49.4	71.5	439	98.8	0.279
	14	25.86	32.9	239	2.69	53.8	79.5	478	108	0.279

HOT FINISHED CIRCULAR HOLLOW SECTIONS

Material Specification: EN 10210 S355J2H

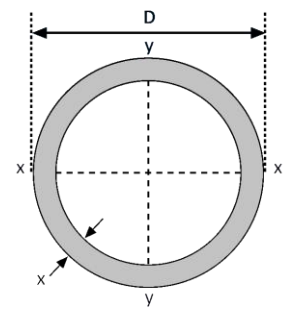


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness									
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
101.6	3.6	8.7	11.1	133	3.47	26.2	34.6	266	52.5	0.319
	5	11.91	15.2	177	3.42	34.9	46.7	355	69.9	0.319
	6.3	14.81	18.9	215	3.38	42.3	57.3	430	84.7	0.319
	8	18.47	23.5	260	3.32	51.1	70.3	519	102	0.319
	10	22.59	28.8	305	3.26	60.1	84.2	611	120	0.319
	12	26.52	33.8	345	3.2	67.9	96.9	690	136	0.319
	14	30.24	38.5	379	3.14	74.6	108	758	149	0.319
114.3	3	8.23	10.5	163	3.94	28.4	37.2	325	56.9	0.359
	3.2	8.77	11.2	172	3.93	30.2	39.5	345	60.4	0.359
	3.6	9.83	12.5	192	3.92	33.6	44.1	384	67.2	0.359
	4	10.88	13.9	211	3.9	36.9	48.7	422	73.9	0.359
	5	13.48	17.2	257	3.87	45	59.8	514	89.9	0.359
	6	16.03	20.4	300	3.83	52.5	70.4	600	105	0.359
	6.3	16.78	21.4	313	3.82	54.7	73.6	625	109	0.359
	8	20.97	26.7	379	3.77	66.4	90.6	759	133	0.359
	10	25.72	32.8	450	3.7	78.7	109	899	157	0.359
	12	30.27	38.6	511	3.64	89.5	126	1023	179	0.359
	14	34.63	44.1	566	3.58	99	142	1131	198	0.359
	16	38.79	49.4	613	3.52	107	156	1225	214	0.359
139.7	3.2	10.77	13.7	320	4.83	45.8	59.6	640	91.6	0.439
	3.6	12.08	15.4	357	4.81	51.1	66.7	713	102	0.439
	4	13.39	17.1	393	4.8	56.2	73.7	786	112	0.439
	5	16.61	21.2	481	4.77	68.8	90.8	961	138	0.439
	6	19.78	25.2	564	4.73	80.8	107	1129	162	0.439
	6.3	20.73	26.4	589	4.72	84.3	112	1177	169	0.439
	8	25.98	33.1	720	4.66	103	139	1441	206	0.439
	10	31.99	40.7	862	4.6	123	169	1724	247	0.439
	12	37.79	48.1	990	4.53	142	196	1980	283	0.439
	14	43.4	55.3	1105	4.47	158	222	2211	317	0.439

HOT FINISHED CIRCULAR HOLLOW SECTIONS

Material Specification: EN 10210 S355J2H

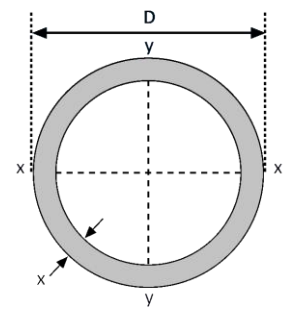


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness							J	C	
D	t	M	A	I	r	Z	S			
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
168.3	3.2	13.03	16.6	566	5.84	67.2	87.2	1131	134	0.529
	3.6	14.62	18.6	632	5.82	75.1	97.7	1264	150	0.529
	4	16.21	20.6	697	5.81	82.8	108	1394	166	0.529
	4.5	18.18	23.2	777	5.79	92.4	121	1554	185	0.529
	5	20.14	25.7	856	5.78	102	133	1712	203	0.529
	6	24.02	30.6	1009	5.74	120	158	2017	240	0.529
	6.3	25.17	32.1	1053	5.73	125	165	2107	250	0.529
	8	31.63	40.3	1297	5.67	154	206	2595	308	0.529
	10	39.04	49.7	1564	5.61	186	251	3128	372	0.529
	12	46.26	58.9	1810	5.54	215	294	3620	430	0.529
	12.5	48.03	61.2	1868	5.53	222	304	3737	444	0.529
	14	53.27	67.9	2036	5.48	242	334	4073	484	0.529
177.8	4.5	19.23	24.5	920	6.13	104	135	1841	207	0.559
	5	21.31	27.1	1014	6.11	114	149	2028	228	0.559
	6.3	26.65	33.9	1250	6.07	141	185	2499	281	0.559
	8	33.5	42.7	1541	6.01	173	231	3083	347	0.559
	10	41.38	52.7	1862	5.94	209	282	3724	419	0.559
	12	49.07	62.5	2159	5.88	243	330	4318	486	0.559
	14	56.55	72	2434	5.81	274	377	4868	548	0.559
193.7	3.6	16.88	21.5	972	6.72	100	130	1943	201	0.609
	5	23.27	29.6	1320	6.67	136	178	2640	273	0.609
	6	27.77	35.4	1560	6.64	161	211	3119	322	0.609
	6.3	29.12	37.1	1630	6.63	168	221	3260	337	0.609
	8	36.64	46.7	2016	6.57	208	276	4031	416	0.609
	10	45.3	57.7	2442	6.5	252	338	4883	504	0.609
	12	53.77	68.5	2839	6.44	293	397	5678	586	0.609
	12.5	55.86	71.2	2934	6.42	303	411	5869	606	0.609
	14	62.04	79	3210	6.37	331	453	6419	663	0.609
	16	70.12	89.3	3554	6.31	367	507	7109	734	0.609

HOT FINISHED CIRCULAR HOLLOW SECTIONS

Material Specification: EN 10210 S355J2H

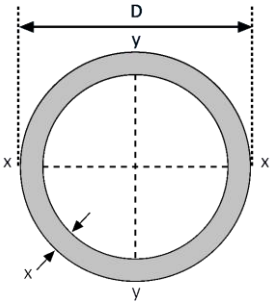


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness									
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
219.1	3.6	19.13	24.4	1415	7.62	129	167	2830	258	0.688
	5	26.4	33.6	1928	7.57	176	229	386	352	0.688
	6	31.53	40.2	2282	7.54	208	273	4564	417	0.688
	6.3	33.06	42.1	2386	7.53	218	285	4772	436	0.688
	8	41.65	53.1	2960	7.47	270	357	5919	540	0.688
	10	51.57	65.7	3598	7.4	328	438	7197	657	0.688
	12	61.29	78.1	4200	7.33	383	515	8400	767	0.688
	12.5	63.69	81.1	4345	7.32	397	534	8689	793	0.688
	14.2	71.75	91.4	4820	7.26	440	597	9640	880	0.688
	16	80.14	102	5297	7.2	483	661	10590	967	0.688
244.5	20	98.2	125	6261	7.07	572	795	12520	1143	0.688
	5	29.53	37.6	2699	8.47	221	287	5397	441	0.768
	6	35.29	45	3199	8.43	262	341	6397	523	0.768
	6.3	37.01	47.1	3346	8.42	274	358	6692	547	0.768
	8	46.66	59.4	4160	8.37	340	448	8321	681	0.768
	10	57.83	73.7	5073	8.3	415	550	10150	830	0.768
	12	68.81	87.7	5938	8.23	486	649	11880	972	0.768
	12.5	71.52	91.1	6147	8.21	503	673	12300	1006	0.768
	14	79.58	101	6758	8.16	553	745	13520	1106	0.768
	14.2	80.65	103	6837	8.16	559	754	13670	1119	0.768
	16	90.16	115	7533	8.1	616	837	15070	1232	0.768
	20	110.73	141	8957	7.97	733	1011	17910	1465	0.768

HOT FINISHED CIRCULAR HOLLOW SECTIONS

Material Specification: EN 10210 S355J2H

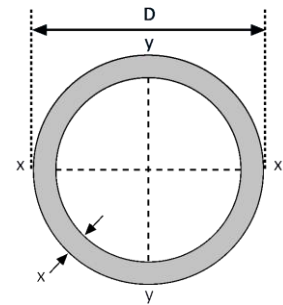


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness									
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
273	5	33.05	42.1	3781	9.48	277	359	7562	554	0.858
	6	39.51	50.3	4487	9.44	329	428	8974	657	0.858
	6.3	41.44	52.8	4696	9.43	344	448	9392	688	0.858
	8	52.28	66.6	5852	9.37	429	562	11700	857	0.858
	10	64.86	82.6	7154	9.31	524	692	14310	1048	0.858
	12	77.24	98.4	8396	9.24	615	818	16790	1230	0.858
	12.5	80.3	102	8697	9.22	637	849	17400	1274	0.858
	14	89.42	114	9580	9.17	702	940	19160	1404	0.858
	14.2	90.63	115	9695	9.16	710	952	19390	1421	0.858
	16	101.41	129	10710	9.1	784	1058	21410	1569	0.858
	20	124.79	159	12800	8.97	938	1283	25600	1875	0.858
	25	152.9	195	15130	8.81	1108	1543	30250	2216	0.858
323.9	5	39.32	50.1	6369	11.3	393	509	12740	787	1.02
	6	47.04	59.9	7572	11.2	468	606	15150	935	1.02
	6.3	49.34	62.9	7929	11.2	490	636	15860	979	1.02
	8	62.32	79.4	9910	11.2	612	799	19820	1224	1.02
	10	77.41	98.6	12160	11.1	751	986	24320	1501	1.02
	12	92.3	118	14320	11	884	1168	28640	1768	1.02
	12.5	95.99	122	14850	11	917	1213	29690	1833	1.02
	14	107	136	16400	11	1012	1345	32790	2025	1.02
	14.2	108.45	138	16600	11	1025	1363	33200	2050	1.02
	16	121.49	155	18390	10.9	1136	1518	36780	2271	1.02
	20	149.89	191	22140	10.8	1367	1850	44280	2734	1.02
	25	184.28	235	26400	10.6	1630	2239	52800	3260	1.02

HOT FINISHED CIRCULAR HOLLOW SECTIONS

Material Specification: EN 10210 S355J2H

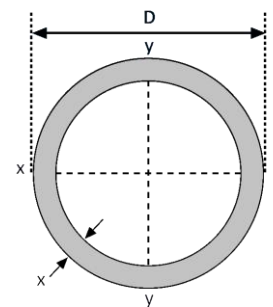


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness									
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
355.6	6	51.73	65.9	10070	12.4	566	733	20140	1133	1.12
	6.3	54.27	69.1	10550	12.4	593	769	21090	1186	1.12
	8	68.58	87.4	13200	12.3	742	967	26400	1485	1.12
	10	85.23	109	16220	12.2	912	1195	32450	1825	1.12
	12	101.68	130	19140	12.2	1076	1417	38280	2153	1.12
	12.5	105.77	135	19850	12.1	1117	1472	39700	2233	1.12
	14	117.94	150	21950	12.1	1235	1635	43900	2469	1.12
	14.2	119.56	152	22230	12.1	1250	1656	44460	2500	1.12
	16	134	171	24460	12	1387	1847	49330	2774	1.12
	20	165.53	211	29790	11.9	1676	2255	59580	3351	1.12
	25	203.83	260	35680	11.7	2007	2738	71350	4013	1.12
406.4	6	59.25	75.5	15130	14.2	745	962	30260	1489	1.28
	6.3	62.16	79.2	15850	14.1	780	1009	31700	1560	1.28
	8	78.6	100	19870	14.1	978	1270	39750	1956	1.28
	10	97.76	125	24480	14	1205	1572	48950	2409	1.28
	12	116.72	149	28940	14	1424	1867	57870	2848	1.28
	12.5	121.43	155	30030	13.9	1478	1940	60060	2956	1.28
	14	135.48	173	33260	13.9	1637	2157	66520	3274	1.28
	14.2	137.35	175	33690	13.9	1658	2185	67370	3315	1.28
	16	154.05	196	37450	13.8	1843	2440	74900	3686	1.28
	20	190.58	243	45430	13.7	2236	2989	90860	4472	1.28
	25	235.15	300	54700	13.5	2692	3642	109400	5384	1.28
	32	295.46	376	66430	13.3	3269	4497	132900	6539	1.28

HOT FINISHED CIRCULAR HOLLOW SECTIONS

Material Specification: EN 10210 S355J2H

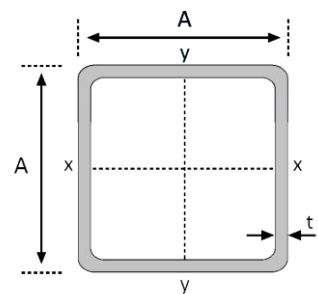


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness									
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
457	6.3	70.02	89.2	22650	15.9	991	1280	45310	1983	1.44
	8	88.58	113	28450	15.9	1245	1613	56890	2490	1.44
	10	110.24	140	35090	15.8	1536	1998	70180	3071	1.44
	12	131.69	168	41560	15.7	1819	2377	83110	3637	1.44
	12.5	137.03	175	43150	15.7	1888	2470	86290	3776	1.44
	14.2	155.07	198	48460	15.7	2121	2785	96930	4242	1.44
	16	174.01	222	53960	15.6	2361	3113	107900	4723	1.44
	20	215.54	275	65680	15.5	2874	3822	131400	5749	1.44
	25	266.34	339	79420	15.3	3475	4671	158800	6951	1.44
	32	335.4	427	97010	15.1	4246	5791	194000	8491	1.44
	40	411.35	524	114900	14.8	5031	6977	229900	10060	1.44
508	6.3	77.95	99.3	31250	17.7	1230	1586	62490	2460	1.6
	8	98.65	126	39280	17.7	1546	2000	78560	3093	1.6
	10	122.81	156	48520	17.6	1910	2480	97040	3820	1.6
	12	146.79	187	57540	17.5	2265	2953	115100	4530	1.6
	12.5	152.75	195	59760	17.5	2353	3070	119500	4705	1.6
	14.2	172.93	220	67200	17.5	2646	3463	134400	5291	1.6
	16	194.14	247	74910	17.4	2949	3874	149800	5898	1.6
	20	240.7	307	91430	17.3	3600	4766	182900	7199	1.6
	25	297.79	379	110900	17.1	4367	5837	221800	8734	1.6
	32	375.64	479	136100	16.9	5360	7261	272300	10720	1.6
	40	461.66	588	162200	16.6	6385	8782	324400	12770	1.6
	50	564.75	719	190900	16.3	7515	10530	381800	15030	1.6

COLD FORMED SQUARE HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

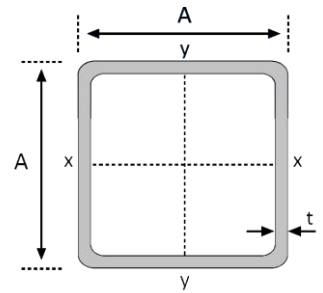


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x A	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
12 x 12	1	0.357	0.414	0.0808	0.0808	0.135	0.135	0.442	0.442	0.167	0.167
	1.2	0.421	0.481	0.0897	0.0897	0.15	0.15	0.432	0.432	0.189	0.189
	1.6	0.54	0.6	0.102	0.102	0.169	0.169	0.412	0.412	0.224	0.224
13 x 13	1.2	0.4	0.529	0.118	0.118	0.182	0.182	0.473	0.473	0.228	0.228
	1.6	0.5	0.664	0.136	0.136	0.209	0.209	0.453	0.453	0.273	0.273
16 x 16	1	0.464	0.591	0.221	0.221	0.276	0.276	0.611	0.611	0.331	0.331
	1.2	0.54	0.673	0.239	0.239	0.298	0.298	0.595	0.595	0.366	0.366
	1.6	0.706	0.9	0.31	0.31	0.387	0.387	0.587	0.587	0.483	0.483
19 x 19	1	0.559	0.711	0.383	0.383	0.403	0.403	0.733	0.733	0.479	0.479
	1.2	0.661	0.842	0.443	0.443	0.466	0.466	0.725	0.725	0.56	0.56
	1.6	0.859	1.05	0.511	0.511	0.538	0.538	0.698	0.698	0.668	0.668
20x20	2	1.05	1.34	0.692	0.692	0.692	0.692	0.72	0.72	0.877	0.877
	2.5	1.25	1.59	0.766	0.766	0.766	0.766	0.694	0.694	1	1
25 x 25	1.2	0.887	1.13	1.06	1.06	0.85	0.85	0.97	0.97	1.01	1.01
	1.6	1.16	1.48	1.34	1.34	1.07	1.07	0.95	0.95	1.29	1.29
	1.8	1.33	1.59	1.38	1.38	1.11	1.11	0.934	0.934	1.35	1.35
	2	1.36	1.74	1.48	1.48	1.19	1.19	0.924	0.924	1.47	1.47
	2.3	1.6	2.04	1.75	1.75	1.4	1.4	0.93	0.93	1.73	1.73
	2.4	1.7	2.02	1.65	1.65	1.32	1.32	0.904	0.904	1.67	1.67
	2.5	1.64	2.09	1.69	1.69	1.35	1.35	0.899	0.899	1.71	1.71
	3	2.01	2.56	2.06	2.06	1.65	1.65	0.9	0.9	2.1	2.1
30x30	1.2	1.08	1.35	1.83	1.83	1.22	1.22	1.17	1.17	1.44	1.44
	1.6	1.41	1.75	2.31	2.31	1.54	1.54	1.15	1.15	1.84	1.84
	1.8	1.57	1.95	2.52	2.52	1.68	1.68	1.14	1.14	2.03	2.03
	2.3	1.97	2.41	2.99	2.99	2	2	1.11	1.11	2.45	2.45
	3	2.48	3.01	3.5	3.5	2.34	2.34	1.08	1.08	2.96	2.96
	3.2	2.62	3.17	3.62	3.62	2.41	2.41	1.07	1.07	3.08	3.08
32 x 32	1.2	1.15	1.466	2.31	2.31	1.44	1.44	1.26	1.26	1.69	1.69
	1.6	1.51	1.92	2.95	2.95	1.84	1.84	1.24	1.24	2.19	2.19
	2	1.86	2.37	3.53	3.53	2.21	2.21	1.22	1.22	2.65	2.65
	2.3	2.11	2.69	3.93	3.93	2.46	2.46	1.21	1.21	2.98	2.98
	3	2.67	3.4	4.75	4.75	2.97	2.97	1.18	1.18	3.68	3.68

COLD FORMED SQUARE HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

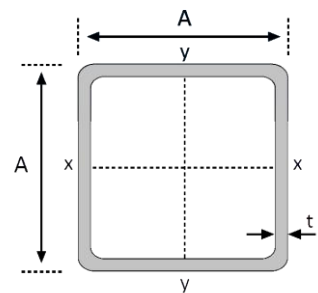


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x A	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
38 x 38	1.6	1.81	2.31	5.08	5.08	2.67	2.67	1.48	1.48	3.14	3.14
	2	2.23	2.85	6.12	6.12	3.22	3.22	1.47	1.47	3.83	3.83
	2.3	2.54	3.24	6.85	6.85	3.61	3.61	1.45	1.45	4.32	4.32
	3	3.24	4.12	8.38	8.38	4.41	4.41	1.43	1.43	5.38	5.38
40 x 40	2	2.31	2.94	6.94	6.94	3.47	3.47	1.54	1.54	4.13	4.13
	2.5	2.82	3.59	8.22	8.22	4.11	4.11	1.51	1.51	4.97	4.97
	3	3.3	4.21	9.32	9.32	4.66	4.66	1.49	1.49	5.72	5.72
	4	4.2	5.35	11.1	11.1	5.54	5.54	1.44	1.44	7.01	7.01
50 x 50	1.5	2.44	2.85	11.1	11.1	4.43	4.43	1.97	1.97	5.15	5.15
	1.6	2.41	3.08	12	12	4.79	4.79	1.97	1.97	5.57	5.57
	2	2.93	3.74	14.1	14.1	5.66	5.66	1.95	1.95	6.66	6.66
	2.3	3.41	4.34	16.4	16.4	6.56	6.56	1.94	1.94	7.74	7.74
	3	4.25	5.41	19.5	19.5	7.79	7.79	1.9	1.9	9.39	9.39
	3.2	4.54	5.73	20.4	20.4	8.16	8.16	1.89	1.89	9.89	9.89
	4	5.45	6.95	23.7	23.7	9.49	9.49	1.85	1.85	11.7	11.7
	4.5	6.02	7.67	25.5	25.5	10.2	10.2	1.82	1.82	12.8	12.8
	5	6.69	8.36	27	27	10.8	10.8	1.8	1.8	13.7	13.7
	6	7.56	9.63	29.5	29.5	11.8	11.8	1.75	1.75	15.3	15.3
60 x 60	1.6	2.88	3.67	20.7	20.7	6.89	6.89	2.37	2.37	8	8
	2.3	4.06	5.17	28.3	28.3	9.44	9.44	2.34	2.34	11.1	11.1
	3	5.19	6.61	35.1	35.1	11.7	11.7	2.31	2.31	14	14
	4	6.71	8.55	43.6	43.6	14.5	14.5	2.26	2.26	17.6	17.6
	4.5	7.43	9.47	47.2	47.2	15.7	15.7	2.23	2.23	19.3	19.3
	5	8.13	10.4	50.5	50.5	16.8	16.8	2.21	2.21	20.9	20.9
	6	9.44	12	56.1	56.1	18.7	18.7	2.16	2.16	23.7	23.7
63.5 x 63.5	2.3	4.31	5.49	33.9	33.9	10.7	10.7	2.48	2.48	12.5	12.5
	3	5.52	7.03	42.1	42.1	13.3	13.3	2.45	2.45	15.8	15.8
	4.5	8.04	10.1	57	57	18	18	2.38	2.38	21.9	21.9
	5	8.92	11.4	66.1	66.1	20.3	20.3	2.41	2.41	25	25
	6	10.57	12.9	68.2	68.2	21.5	21.5	2.3	2.3	27	27

COLD FORMED SQUARE HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

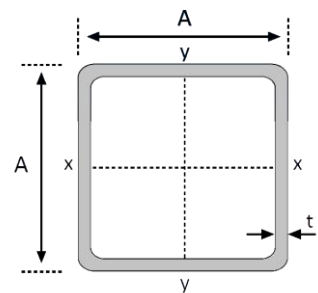


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x A	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
65 x 65	1.6	3.06	3.99	26.5	26.5	8.16	8.16	2.58	2.58	9.4	9.4
	2.3	4.42	5.63	36.4	36.4	11.2	11.2	2.54	2.54	13.1	13.1
	3	5.66	7.21	45.4	45.4	14	14	2.51	2.51	16.6	16.6
	4	7.34	9.35	56.6	56.6	17.4	17.4	2.46	2.46	21	21
	4.5	8.14	10.37	61.6	61.6	18.9	18.9	2.44	2.44	23.1	23.1
	5	8.92	11.36	66.1	66.1	20.3	20.3	2.41	2.41	25	25
	6	10.4	13.23	73.9	73.9	22.7	22.7	2.36	2.36	28.5	28.5
70 x 70	2.5	5.17	6.59	49.4	49.4	14.1	14.1	2.74	2.74	16.5	16.5
	3	6.13	7.81	57.5	57.5	16.4	16.4	2.71	2.71	19.4	19.4
	3.6	7.24	9.23	66.5	66.5	19	19	2.69	2.69	22.7	22.7
	4	7.97	10.1	72.1	72.1	20.6	20.6	2.67	2.67	24.8	24.8
	5	9.7	12.4	84.6	84.6	24.2	24.2	2.62	2.62	29.6	29.6
75 x 75	2.3	5.14	6.55	57.1	57.1	15.2	15.2	2.95	2.95	17.7	17.7
	3	6.6	8.41	71.6	71.6	19.1	19.1	2.92	2.92	22.5	22.5
	4	8.6	10.95	90.2	90.2	24	24	2.87	2.87	28.8	28.8
	4.5	9.55	12.17	98.6	98.6	26.3	26.3	2.85	2.85	31.7	31.7
	6	12.3	15.63	120	120	32	32	2.77	2.77	39.6	39.6
80 x 80	3	7.07	9.01	88	88	22	22	3.12	3.12	25.8	25.8
	3.6	8.37	10.7	102	102	25.5	25.5	3.09	3.09	30.2	30.2
	4	9.22	11.7	111	111	27.8	27.8	3.07	3.07	33.1	33.1
	5	11.3	14.4	131	131	32.9	32.9	3.03	3.03	39.7	39.7
	6	13.2	16.8	149	149	37.3	37.3	2.98	2.98	45.8	45.8
	6.3	13.5	17.2	149	149	37.1	37.1	2.94	2.94	46.1	46.1
90 x 90	2.3	6.23	7.93	101	101	22.4	22.4	3.56	3.56	25.9	25.9
	3	8.01	10.2	127	127	28.3	28.3	3.53	3.53	33	33
	3.2	8.33	10.8	135	135	29.9	29.9	3.52	3.52	35	35
	3.6	9.5	12.1	149	149	33	33	3.5	3.5	38.9	38.9
	4	10.5	13.3	162	162	36	36	3.48	3.48	42.6	42.6
	4.5	11.5	14.9	178	178	39.5	39.5	3.46	3.46	47.1	47.1
	5	12.8	16.4	193	193	42.9	42.9	3.43	3.43	51.4	51.4
	6	15.1	19.2	220	220	49	49	3.39	3.39	59.5	59.5

COLD FORMED SQUARE HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

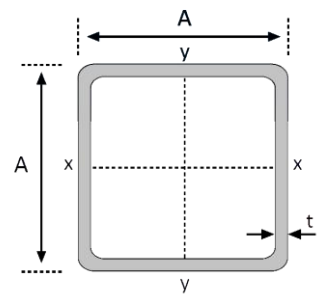


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x A	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
100 x 100	2.3	6.95	8.85	140	140	27.9	27.9	3.97	3.97	32.3	32.3
	3	8.96	11.41	177	177	35.4	35.4	3.94	3.94	41.2	41.2
	3.2	9.6	12.1	187	187	37.5	37.5	3.93	3.93	43.7	43.7
	4	11.7	14.95	226	226	45.3	45.3	3.89	3.89	53.3	53.3
	4.5	13.1	16.67	249	249	49.9	49.9	3.87	3.87	59	59
	5	14.4	18.4	271	271	54.2	54.2	3.84	3.84	64.6	64.6
	6	17	21.63	311	311	62.3	62.3	3.79	3.79	75.1	75.1
	6.3	17.5	22.2	314	314	62.8	62.8	3.76	3.76	76.4	76.4
	8	21.4	27.2	366	366	73.2	73.2	3.67	3.67	91.1	91.1
	9	24.1	30	391	391	78.1	78.1	3.61	3.61	98.6	98.6
120 x 120	10	25.6	32.6	411	411	82.2	82.2	3.55	3.55	105	105
	4	14.2	18.1	402	402	67	67	4.71	4.71	78.3	78.3
	5	17.5	22.4	485	485	80.9	80.9	4.66	4.66	95.4	95.4
	6	20.7	26.4	562	562	93.7	93.7	4.61	4.61	112	112
	6.3	21.4	27.3	572	572	95.3	95.3	4.58	4.58	114	114
125 x 125	8	26.4	33.6	677	677	113	113	4.49	4.49	138	138
	2.3	8.75	11.2	278	278	44.5	44.5	4.99	4.99	51.1	51.1
	3	11.3	14.41	354	354	56.7	56.7	4.96	4.96	65.6	65.6
	3.2	12	15.3	376	376	60.1	60.1	4.95	4.95	69.6	69.6
	4.5	16.6	21.17	506	506	80.9	80.9	4.89	4.89	94.8	94.8
	5	18.7	23.4	553	553	88.4	88.4	4.86	4.86	104	104
	6	21.7	27.63	641	641	103	103	4.82	4.82	122	122
	6.4	23.2	29	660	660	106	106	4.78	4.78	126	126
150 x 150	9	31.1	39	838	838	134	134	4.64	4.64	165	165
	3	13.7	17.41	623	623	83	83	5.98	5.98	95.5	95.5
	4	18	22.95	808	808	108	108	5.93	5.93	125	125
	4.5	20.2	25.67	896	896	120	120	5.91	5.91	139	139
	6	26.4	33.63	1146	1146	153	153	5.84	5.84	180	180
	6.3	27.4	34.8	1174	1174	156	156	5.8	5.8	185	185
	8	33.9	43.2	1412	1412	188	188	5.71	5.71	226	226
	9	38.2	48	1540	1540	205	205	5.66	5.66	248	248
	10	41.3	52.6	1650	1650	220	220	5.61	5.61	269	269
	12	47.1	60.1	1780	1780	237	237	5.44	5.44	298	298

COLD FORMED SQUARE HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

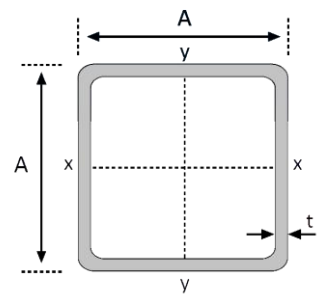


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x A	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
175 x 175	4	21.2	26.9	1303	1303	149	149	6.95	6.95	172	172
	4.5	23.7	30.2	1449	1449	166	166	6.93	6.93	192	192
	5	26.2	33.4	1591	1591	182	182	6.91	6.91	211	211
	6	31.1	39.6	1864	1864	213	213	6.86	6.86	249	249
	9	45.3	57	2546	2546	291	291	6.68	6.68	348	348
	12.7	62.5	75.5	3124	3124	357	357	6.43	6.43	443	443
180 x 180	5	27	34.4	1737	1737	193	193	7.11	7.11	224	224
	6	32.1	40.8	2037	2037	226	226	7.06	7.06	264	264
	6.3	33.3	42.4	2096	2096	233	233	7.03	7.03	273	273
	8	41.5	52.8	2546	2546	283	283	6.94	6.94	336	336
	10	50.7	64.6	3017	3017	335	335	6.84	6.84	404	404
	12	58.5	74.5	3322	3322	369	369	6.68	6.68	454	454
200 x 200	12.5	60.5	77	3406	3406	378	378	6.65	6.65	467	467
	5	30.1	38.4	2410	2410	241	241	7.93	7.93	279	279
	6	35.82	45.63	2832.9	2832.9	283.3	283.3	7.88	7.88	329.7	329.7
	6.3	37.2	47.4	2922	2922	292	292	7.85	7.85	341	341
	8	46.5	59.2	3566	3566	357	357	7.76	7.76	421	421
	9	52.34	66.68	3988.8	3988.8	398.9	398.9	7.73	7.73	472.4	472.4
	10	57	72.6	4251	4251	425	425	7.65	7.65	508	508
	12	67.93	86.54	4983.9	4983.9	498.4	498.4	7.59	7.59	600.9	600.9
203 x 203	12.5	68.3	87	4859	4859	486	486	7.47	7.47	594	594
	4.5	28.1	35.2	2295	2295	226	226	8.07	8.07	261	261
	6.4	38.4	48.9	3103	3103	306	306	7.96	7.96	357	357
	9.5	56	70.4	4288	4288	422	422	7.8	7.8	503	503
250 x 250	12.7	72.6	89.7	5161	5161	508	508	7.58	7.58	621	621
	6	45.24	57.63	5672.2	5672.2	453.8	453.8	9.92	9.92	524.5	524.5
	6.3	47.1	60	5873	5873	470	470	9.89	9.89	544	544
	8	59.1	75.2	7229	7229	578	578	9.8	9.8	676	676
	9	66.47	84.68	8093.6	8093.6	647.5	647.5	9.78	9.78	758.8	758.8
	10	72.7	92.6	8707	8707	697	697	9.7	9.7	822	822
	12	86.77	110.54	10254.8	10254.8	820.4	820.4	9.63	9.63	975	975
	12.5	88	112	10160	10160	813	813	9.52	9.52	975	975
250 x 250	16	112.39	143.18	12752.3	12752.3	1020.2	1020.2	9.44	9.44	1235.9	1235.9

COLD FORMED SQUARE HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

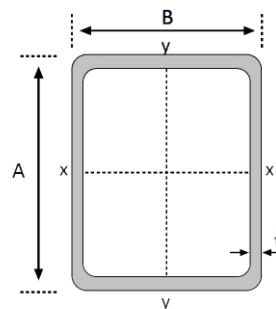


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x A	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
254 x 254	6.4	48.5	62	6257	6257	493	493	10	10	571	571
	9.5	71.2	89.8	8781	8781	691	691	9.89	9.89	813	813
	12.7	92.9	116	10830	10830	853	853	9.68	9.68	1023	1023
300 x 300	6	54.7	69.6	9964	9964	664	664	12	12	764	764
	8	71.6	91.2	12800	12800	853	853	11.8	11.8	991	991
	9	80.6	102.68	14314.3	14314.3	956.1	956.1	11.82	11.82	1112.7	1112.7
	10	88.4	113	15520	15520	1035	1035	11.7	11.7	1211	1211
	12	105.61	134.54	18335.4	18335.4	1222.4	1222.4	11.67	11.67	1439.1	1439.1
	12.5	108	137	18350	18350	1223	1223	11.6	11.6	1451	1451
	16	137.51	175.18	23089.4	23089.4	1539.3	1539.3	11.48	11.48	1841	1841
350 x 350	9	94.7	120	22970	22970	1312	1312	13.8	13.8	1522	1522
	12	124	156	29050	29050	1660	1660	13.6	13.6	1949	1949
	16	163	203	36510	36510	2086	2086	13.4	13.4	2488	2488
400 x 400	9	109	138	34790	34790	1739	1739	15.9	15.9	2009	2009
	12	143	180	44320	44320	2216	2216	15.7	15.7	2587	2587
	16	188	235	56150	56150	2808	2808	15.5	15.5	3322	3322

COLD FORMED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

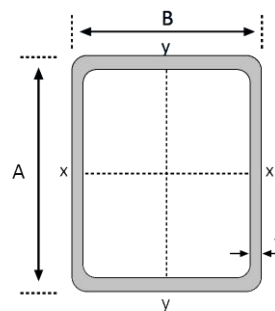


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
19 x 9	1	0.411	0.494	0.206	0.0621	0.216	0.138	0.645	0.354	0.283	0.165
	1.2	0.421	0.577	0.231	0.0689	0.243	0.153	0.633	0.346	0.323	0.188
	1.6	0.54	0.728	0.268	0.0783	0.282	0.174	0.607	0.328	0.39	0.224
25 x 12	1	0.555	0.674	0.51	0.16	0.408	0.266	0.869	0.487	0.521	0.31
	1.2	0.659	0.793	0.583	0.181	0.467	0.302	0.857	0.478	0.604	0.358
	1.6	0.859	1.02	0.705	0.215	0.564	0.358	0.833	0.46	0.749	0.44
25 x 13	1.2	0.67	0.817	0.617	0.219	0.494	0.337	0.869	0.517	0.632	0.398
	1.6	0.86	1.05	0.749	0.262	0.599	0.402	0.845	0.5	0.786	0.492
32 x 16	1	0.707	0.894	1.15	0.391	0.722	0.488	1.14	0.661	0.905	0.558
	1.2	0.838	1.06	1.34	0.449	0.836	0.562	1.12	0.652	1.06	0.65
	1.6	1.1	1.37	1.66	0.55	1.04	0.688	1.1	0.634	1.34	0.818
38 x 19	1	0.858	1.07	1.99	0.676	1.05	0.711	1.36	0.793	1.3	0.805
	1.2	1.02	1.27	2.32	0.783	1.22	0.824	1.35	0.784	1.53	0.943
	1.6	1.33	1.7	3.06	1.01	1.61	1.06	1.34	0.771	2.08	1.26
	3	2.22	--	--	--	--	--	--	--	--	--
38 x 25	1	0.949	1.19	2.4	1.26	1.26	1.01	1.42	1.03	1.52	1.14
	1.2	1.13	1.42	2.8	1.47	1.48	1.17	1.41	1.02	1.79	1.35
	1.6	1.5	1.85	3.55	1.85	1.87	1.48	1.39	1	2.3	1.72
50 x 25	1	1.15	1.43	4.69	1.6	1.87	1.28	1.81	1.06	2.31	1.43
	1.2	1.37	1.71	5.5	1.88	2.2	1.5	1.8	1.05	2.73	1.69
	1.6	1.79	2.28	7.29	2.44	2.91	1.95	1.79	1.03	3.69	2.25
	2	2.15	2.74	8.38	2.81	3.35	2.25	1.75	1.01	4.26	2.62
	2.3	2.51	3.19	9.86	3.23	3.94	2.59	1.76	1.01	5.11	3.09
	2.5	2.62	3.34	9.89	3.28	3.95	2.62	1.72	0.991	5.11	3.12
	3	3.19	4.06	12.1	3.89	4.84	3.11	1.73	0.98	6.43	3.84
	3.2	3.41	4.13	11.6	3.8	4.65	3.04	1.68	0.96	6.14	3.73
50 x 30	2	2.31	2.94	9.54	4.29	3.81	2.86	1.8	1.21	4.74	3.33
	2.5	2.82	3.59	11.3	5.05	4.52	3.37	1.77	1.19	5.7	3.98
	3	3.3	4.21	12.8	5.7	5.13	3.8	1.75	1.16	6.57	4.58
	4	4.2	5.35	15.3	6.69	6.1	4.46	1.69	1.12	8.05	5.58

COLD FORMED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

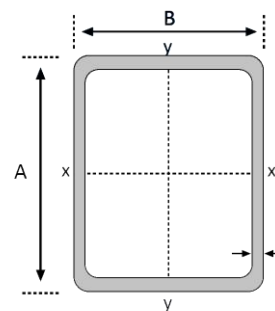


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
60 x 40	1.6	2.37	3.03	15.2	8.16	5.07	4.08	2.24	1.64	6.12	4.64
	2.3	3.33	4.25	20.7	11	6.88	5.5	2.2	1.61	8.44	6.38
	2.5	3.6	4.59	22.1	11.7	7.36	5.87	2.19	1.6	9.06	6.84
	3	4.25	5.41	25.4	13.4	8.46	6.72	2.17	1.58	10.5	7.94
	4	5.45	6.95	31	16.3	10.3	8.14	2.11	1.53	13.2	9.89
	4.5	6.01	7.67	33.3	17.4	11.1	8.72	2.08	1.51	14.3	10.7
65 x 38	1.6	2.49	3.17	18.3	7.94	5.63	4.18	2.4	1.58	6.91	4.75
	2.3	3.52	4.48	25.2	10.8	7.74	5.69	2.37	1.55	9.68	6.62
	3	4.39	5.29	29.8	12.8	9.18	6.75	2.31	1.51	12.3	8.36
	3.2	4.54	5.92	31.3	13.4	9.63	7.06	2.3	1.51	12.2	8.35
	4	5.64	7.19	36.5	15.5	11.2	8.17	2.25	1.47	14.5	9.89
75 x 38	1.6	2.71	3.45	25.3	8.85	6.76	4.66	2.71	1.6	8.59	5.34
	2.3	3.81	4.85	34.6	12	9.23	6.3	2.67	1.57	12.1	7.44
	3	4.86	6.19	42.8	14.7	11.4	7.72	2.63	1.54	15.3	9.41
	3.2	5.17	6.56	45	15.4	12	8.09	2.62	1.53	15.3	9.46
	4	6.27	7.99	52.8	17.9	14.1	9.4	2.57	1.5	18.3	11.2
	4.5	6.94	8.84	57.1	19.2	15.2	10.1	2.54	1.47	19.9	12.3
75 x 50	1.9	3.54	4.51	35.5	19.1	9.48	7.62	2.81	2.05	11.8	8.88
	2.3	4.24	5.4	41.9	22.4	11.2	8.96	2.79	2.04	14.1	10.6
	3	5.42	6.91	52.2	27.8	13.9	11.1	2.75	2	17.9	13.5
	3.2	5.8	7.33	54.9	29.2	14.6	11.7	2.74	2	18	13.6
	4	7.08	8.95	65	34.3	17.3	13.7	2.69	1.96	21.7	16.3
	4.5	7.79	9.92	70.6	37.2	18.8	14.9	2.67	1.94	25.7	19.1
	4.6	8.04	10.1	71.6	37.7	19.1	15.1	2.66	1.93	24.2	18.2
	4.8	8.33	10.5	73.7	38.8	19.6	15.5	2.65	1.92	24.9	18.8
	5	8.53	10.9	75.6	39.7	20.2	15.9	2.64	1.91	25.7	19.3
	6	9.92	12.63	84.4	44.1	22.5	17.6	2.58	1.87	32.6	24.1
80 x 40	3	5.19	6.61	52.3	17.6	13.1	8.78	2.81	1.63	16.5	10.2
	4	6.71	8.55	64.8	21.5	16.2	10.7	2.75	1.59	20.9	12.8
90 x 50	3	6.13	7.81	81.9	32.7	18.2	13.1	3.24	2.05	22.6	15
	3.6	7.24	9.23	94.7	37.7	21.1	15.1	3.2	2.02	26.4	17.5
	4	7.97	10.1	103	40.7	22.8	16.3	3.18	2	28.8	19.1
	5	9.7	12.4	121	47.4	26.8	18.9	3.12	1.96	34.4	22.7

COLD FORMED RECTANGULAR HOLLOW SECTIONS

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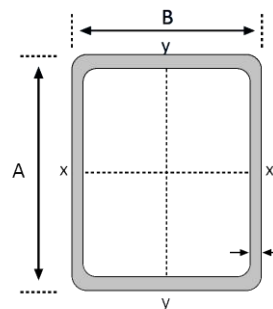


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
100 x 50	1.9	4.36	5.46	71.6	24.5	14.3	9.82	3.62	2.12	17.6	10.9
	2.3	5.14	6.55	84.8	29	17	11.6	3.6	2.1	21.7	13.3
	3	6.6	8.41	106	36.1	21.3	14.4	3.56	2.07	27.8	17
	3.2	7.07	8.93	112	38	22.5	15.2	3.55	2.06	28.2	17.4
	4	8.59	10.9	134	44.9	26.8	18	3.5	2.03	34.1	20.9
	4.5	9.55	12.17	147	48.9	29.3	19.5	3.47	2	40.1	24.3
	5	10.5	13.4	158	52.5	31.6	21	3.44	1.98	40.8	25
	6	12.3	15.63	179	58.7	35.7	23.5	3.38	1.94	51.4	30.7
100 x 60	6.3	12.5	15.9	176	58.2	35.1	23.3	3.32	1.91	46.9	28.6
	3	7.07	9.01	121	54.6	24.1	18.2	3.66	2.46	29.6	20.8
	3.6	8.37	10.7	140	63.3	28	21.1	3.63	2.44	34.7	24.3
	4	9.22	11.7	153	68.7	30.5	22.9	3.6	2.42	37.9	26.6
	5	11.3	14.4	181	80.8	36.2	26.9	3.55	2.37	45.6	31.9
	6	13.2	16.8	205	91.2	41.1	30.4	3.49	2.33	52.5	36.6
100 x 75	6.3	13.5	17.2	203	90.9	40.7	30.3	3.44	2.3	52.8	36.9
	2.3	6.04	7.7	112	72.3	22.5	19.3	3.82	3.06	26.6	21.9
	3	7.78	9.91	142	91.1	28.4	24.3	3.78	3.03	35.1	28.7
	3.2	8.33	10.5	150	96.2	30	25.6	3.77	3.02	35.9	29.5
	4	10.2	12.9	180	115	36	30.8	3.73	2.99	43.7	35.9
	4.5	11.3	14.42	198	127	39.6	33.7	3.71	2.96	50.9	41.5
	4.6	11.7	14.7	201	129	40.3	34.3	3.7	2.96	49.2	40.3
	4.8	12.1	15.3	208	133	41.6	35.4	3.69	2.95	51	41.8
120 x 60	5	12.8	15.9	215	137	42.9	36.5	3.68	2.94	52.7	43.2
	6	14.6	18.63	245	156	49	41.6	3.63	2.89	65.5	53.3
	3	8.01	10.2	189	64.4	31.5	21.5	4.3	2.51	39.2	24.2
	3.6	9.5	12.1	221	74.8	36.8	24.9	4.27	2.48	46.1	28.4
	4	10.5	13.3	241	81.2	40.1	27.1	4.25	2.47	50.5	31.1
	5	12.8	16.4	287	96	47.8	32	4.19	2.42	60.9	37.4
	6	15.1	19.2	328	109	54.7	36.3	4.13	2.38	70.6	43.1
	6.3	15.5	19.7	327	109	54.5	36.4	4.07	2.35	71.2	43.7

COLD FORMED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

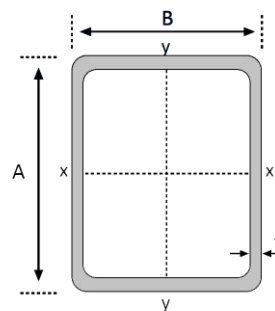


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
120 x 80	4	11.7	14.9	295	157	49.1	39.3	4.44	3.24	59.8	45.2
	5	14.4	18.4	353	188	58.9	46.9	4.39	3.2	72.4	54.7
	6	17	21.6	406	215	67.7	53.8	4.33	3.15	84.3	63.5
	6.3	17.5	22.2	408	217	68.1	54.3	4.28	3.12	85.6	64.7
	8	21.4	27.2	476	252	79.3	62.9	4.18	3.04	102	76.9
125 x 50	2.3	6.04	7.7	148	35.5	23.7	14.2	4.39	2.15	29.9	15.7
	3	7.78	9.91	187	44.4	29.9	17.7	4.34	2.12	39.5	20.5
	3.2	8.33	10.5	198	46.7	31.6	18.7	4.33	2.11	40.4	21.1
	4	10.2	12.9	238	55.6	38	22.2	4.28	2.07	49	25.5
	4.5	11.3	14.42	261	60.6	41.7	24.2	4.25	2.05	57.4	29.4
	4.6	11.7	14.7	265	61.5	42.4	24.6	4.25	2.04	55.2	28.6
	4.8	12.1	15.3	274	63.4	43.8	25.3	4.23	2.04	57.2	29.6
	5	12.8	15.9	282	65.2	45.2	26.1	4.22	2.03	59.1	30.6
	6	14.6	18.63	322	73.3	51.5	29.3	4.16	1.98	74	37.3
	6.4	15.6	19.4	322	74	51.6	29.6	4.08	1.95	69.6	35.9
125 x 75	2.3	6.95	8.85	191.5	87.5	30.6	23.3	4.65	3.14	37	26.1
	3	8.96	11.41	243	111	38.9	29.5	4.61	3.12	48.7	34.1
	3.2	9.6	12.1	257	117	41.1	31.1	4.6	3.1	50.1	35.3
	4	11.8	14.9	311	141	49.7	37.5	4.56	3.07	61.1	43
	4.5	13.1	16.67	342	155	54.8	41.2	4.53	3.04	70.9	49.5
	5	14.7	18.4	373	168	59.6	44.7	4.5	3.02	74.1	52
	6	17	21.63	428	192	68.5	51.1	4.45	2.98	91.9	63.7
	6.4	18.2	22.6	435	196	69.6	52.2	4.39	2.94	88.5	62.1
150 x 50	3	8.96	11.41	299	52.6	39.8	21.1	5.12	2.15	53.2	24.1
	3.2	9.6	12.1	316	55.5	42.1	22.2	5.1	2.14	54.5	24.9
	4	11.8	14.9	381	66.2	50.9	26.5	5.05	2.1	66.5	30.1
	4.5	13.1	16.67	420	72.2	56	28.9	5.02	2.08	77.5	34.5
	4.6	13.5	17	427	73.4	57	29.4	5.01	2.08	75	33.8
	4.8	14	17.7	442	75.7	58.9	30.3	5	2.07	77.8	35
	5	14.7	18.4	456	77.9	60.8	31.1	4.99	2.06	80.5	36.2
	6	17	21.63	523	87.9	69.8	35.2	4.92	2.02	100	43.9
	6.4	18.2	22.6	528	89.3	70.4	35.7	4.84	1.99	95.7	42.9

COLD FORMED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

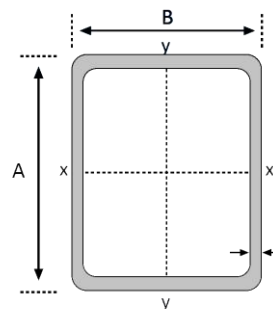


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
150 x 75	3	10.1	12.91	380	130	50.6	34.7	5.42	3.17	64.2	39.5
	3.2	10.9	13.7	402	137	53.6	36.6	5.41	3.16	66.3	41
	4	13.4	16.9	488	166	65.1	44.2	5.37	3.13	81.1	50.1
	4.5	14.9	18.92	539	183	71.9	48.7	5.34	3.11	93.8	57.4
	4.6	15.3	19.3	549	186	73.2	49.5	5.33	3.1	91.7	56.5
	4.8	14	20.1	568	192	75.8	51.2	5.32	3.09	95.2	58.6
	5	16.7	20.9	588	198	78.4	52.9	5.31	3.08	98.6	60.7
	6	19.3	24.63	679	228	90.5	60.7	5.25	3.04	122	74
	6.4	20.7	25.8	693	233	92.4	62.2	5.19	3.01	119	73.1
	9	27.6	35.17	905	297	121	79.2	5.07	2.91	172	105
150 x 100	3	11.31	14.41	460.7	247.6	61.4	49.5	5.65	4.15	73.5	55.8
	3.2	12	15.3	488	262	65.1	52.5	5.64	4.14	78	59.2
	4	14.9	18.9	595	319	79.3	63.7	5.6	4.1	95.7	72.5
	4.5	16.6	21.17	658	352	87.7	70.4	5.58	4.08	110	83.1
	4.6	17.1	21.6	670	358	89.4	71.7	5.57	4.07	108	82.1
	4.8	17.8	22.5	695	371	92.7	74.3	5.56	4.06	113	85.2
	5	18.3	23.36	719	384	95.9	76.8	5.55	4.05	122	91.5
	6	21.7	27.63	835	444	111.1	88.8	5.5	4.01	144	108
	6.3	22.4	28.5	848	453	113	90.5	5.45	3.98	140	106
	6.4	23.2	29	858	458	114	91.6	5.44	3.98	142	107
	8	27.7	35.2	1008	536	134	107	5.35	3.9	169	128
	9	31.1	39.67	1129	595	120	119	5.33	3.87	190	143
	9.5	33.3	40.8	1127	597	150	119	5.26	3.82	192	145
	12.7	42.3	50.1	1232	655	164	131	4.96	3.61	221	167
160 x 80	5	17.5	22.4	722	244	90.2	61	5.68	3.3	113	69.7
	6	20.7	26.4	836	281	105	70.2	5.62	3.26	132	81.3
	8	26.4	33.6	1001	335	125	83.7	5.46	3.16	163	100
175 x 100	4.8	19.7	24.9	1013	426	116	85.2	6.38	4.14	142	96.7
	6.4	25.7	32.2	1260	528	144	106	6.26	4.05	180	122
	9.5	37.1	45.5	1673	694	191	139	6.06	3.9	246	166
	12.7	47.3	56.5	1867	777	213	155	5.75	3.71	288	195

COLD FORMED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

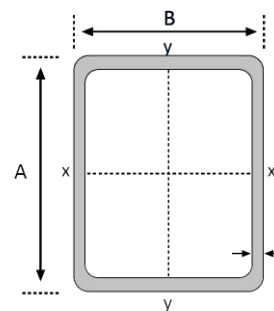


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
175 x 125	4.8	21.6	27.3	1187	708	136	113	6.6	5.09	163	129
	6.4	28.3	35.4	1487	886	170	142	6.49	5.01	207	164
	9.5	40.9	50.3	1999	1184	228	189	6.3	4.85	285	226
	12.7	52.4	62.8	2286	1356	261	217	6.03	4.65	340	270
200 x 100	4	18	22.9	1200	411	120	82.2	7.23	4.23	148	91.7
	4.5	20.2	25.67	1331	455	133	90.9	7.2	4.21	170	105
	5	22.3	28.4	1459	497	146	99.4	7.17	4.19	181	112
	6	26.4	33.63	1703	577	170	115	7.12	4.14	222	136
	6.3	27.4	34.8	1739	591	174	118	7.06	4.12	219	135
	8	33.9	43.2	2091	705	209	141	6.95	4.04	267	165
	9	38.2	48	2280	764	228	153	6.89	3.99	293	180
	9.5	40.9	50.3	2362	792	236	158	6.85	3.97	306	188
	12	49.1	60.1	2607	876	261	175	6.59	3.82	350	215
	12.7	52.4	62.8	2679	898	268	180	6.53	3.78	363	223
200 x 150	4.5	23.7	30.17	1761.6	1134.6	176.2	151.3	7.64	6.13	208.9	171.8
	6	31.1	39.63	2268.1	1457.2	226.8	194.3	7.56	6.06	271.5	223.1
	6.3	33.3	41.1	2330	1499	233	200	7.53	6.04	280	230
	9	45.3	57.68	3167.3	2024.9	316.7	270	7.41	5.93	386.4	316.9
	9.5	48.4	59.8	3225	2066	322	275	7.34	5.88	396	326
	12	58.5	72.1	3668	2353	367	314	7.14	5.71	463	380
	12.7	62.5	75.5	3794	2432	379	324	7.09	5.67	482	396
	12.7	62.5	75.5	3794	2432	379	324	7.09	5.67	482	396
250 x 150	5	30.1	38.4	3304	1508	264	201	9.28	6.27	320	225
	6	35.8	45.63	3885.7	1768.4	310.9	235.8	9.23	6.23	378.1	266.3
	6.3	37.2	47.4	4001	1825	320	243	9.18	6.2	391	276
	8	46.5	59.2	4886	2219	391	296	9.08	6.12	482	340
	9	52.3	66.68	5478.7	2472.8	438.3	329.7	9.06	6.09	541.9	380.4
	10	57	72.6	5825	2634	466	351	8.96	6.02	582	409
	12	67.9	86.54	6853.3	3068.3	548.3	409.1	8.9	5.95	689.4	482.3
	12.5	68.3	87	6633	3002	531	400	8.73	5.87	678	477
300 x 100	6	35.8	45.6	4777	842	318	168	10	4.3	411	188
	6.3	37.2	47.4	4907	868	327	174	10	4.28	425	194
	10	57	72.6	7106	1224	474	245	10	4.11	631	285

COLD FORMED RECTANGULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

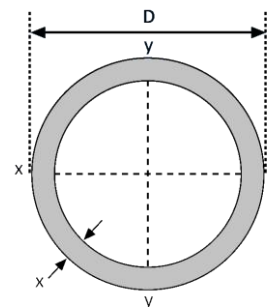


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia		Section Modulus		Radius Of Gyration		Plastic Modulus	
A x B	t	M	A	I _x	I _y	Z _x	Z _y	i _x	i _y	S _x	S _y
mm	mm	Kg/m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
300 x 200	6	45.24	57.63	7370.5	3962.3	491.4	396.2	11.31	8.29	587.8	446.1
	6.3	47.1	60	7624	4104	508	410	11.3	8.27	610	463
	8	59.1	75.2	9389	5042	626	504	11.2	8.19	757	574
	9	66.47	84.68	10529.5	5631.6	702	563.2	11.15	8.16	850.8	644.3
	10	73.34	93.43	11507.9	6144.5	767.2	614.5	11.1	8.11	933.9	706.8
	12	86.77	110.54	13355.8	7107.4	890.4	710.7	10.99	8.02	1093.5	826.5
	12.5	88	112	13180	7060	879	706	10.8	7.94	1091	828
400 x 200	16	112.39	143.18	16630.1	8792.2	1108.7	879.2	10.78	7.84	1386.6	1045.1
	6	54.7	69.6	14790	5092	739	509	14.6	8.55	906	562
	8	71.6	91.2	18970	6517	949	652	14.4	8.45	1173	728
	9	80.6	102	21020	7204	1051	720	14.4	8.4	1305	809
	10	88.4	113	23000	7864	1150	786	14.3	8.36	1434	888
	12	104	132	26250	8977	1312	898	14.1	8.24	1656	1027
	12.5	108	137	27100	9260	1355	926	14.1	8.22	1714	1062

COLD FORMED CIRCULAR HOLLOW SECTIONS

Material Specification: EN 10025 S275JR
 EN 10219 S275JR/J0/J2H
 EN 10219 S355JR/J0/J2H
 ASTM A500 Gr A/B

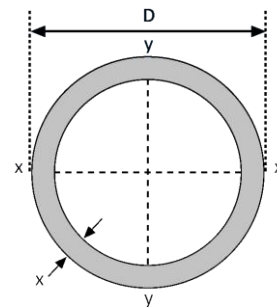


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness							J	C	
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
26.9	2.5	1.5	1.92	1.44	0.867	1.07	1.49	2.88	2.14	0.0845
	3.2	1.87	2.38	1.7	0.846	1.27	1.81	3.41	2.53	0.0845
33.7	3	2.27	2.89	3.44	1.09	2.04	2.84	6.88	4.08	0.106
	3.2	2.41	3.07	3.6	1.08	2.14	2.99	7.21	4.28	0.106
	4	2.93	3.73	4.19	1.06	2.49	3.55	8.38	4.97	0.106
42.4	3	2.91	3.71	7.25	1.4	3.42	4.67	14.5	6.84	0.133
	3.2	3.09	3.94	7.62	1.39	3.59	4.93	15.2	7.19	0.133
	3.6	3.44	4.39	8.33	1.38	3.93	5.44	16.7	7.86	0.133
	4	3.79	4.83	8.99	1.36	4.24	5.92	18	8.48	0.133
48.3	3	3.35	4.27	11	1.61	4.55	6.17	22	9.11	0.152
	3.2	3.56	4.53	11.6	1.6	4.8	6.52	23.2	9.59	0.152
	3.6	3.97	5.06	12.7	1.59	5.26	7.21	25.4	10.5	0.152
	4	4.37	5.57	13.8	1.57	5.7	7.87	27.5	11.4	0.152
60.3	3	4.24	5.4	22.2	2.03	7.37	9.86	44.4	14.7	0.189
	3.2	4.51	5.74	23.5	2.02	7.78	10.4	46.9	15.6	0.189
	3.6	5.03	6.41	25.9	2.01	8.58	11.6	51.7	17.2	0.189
	4	5.55	7.07	28.2	2	9.34	12.7	56.3	18.7	0.189
	5	6.82	8.69	33.5	1.96	11.1	15.3	67	22.2	0.189
76.1	3	5.41	6.89	46.1	2.59	12.1	16	92.2	24.2	0.239
	3.2	5.75	7.33	48.8	2.58	12.8	17	97.6	25.6	0.239
	3.6	6.44	8.2	54	2.57	14.2	18.9	108	28.4	0.239
	4	7.11	9.06	59.1	2.55	15.5	20.8	118	31	0.239
	5	11.2	11.26	70.9	2.52	18.6	25.3	142	37.3	0.239
88.9	3	6.36	8.1	74.8	3.04	16.8	22.1	150	33.6	0.279
	3.2	6.76	8.62	79.2	3.03	17.8	23.5	158	35.6	0.279
	4	8.38	10.7	96.3	3	21.7	28.9	193	43.3	0.279
	5	10.35	13.2	116	2.97	26.2	35.2	233	52.4	0.279
101.6	4	9.63	12.3	146	3.45	28.8	38.1	293	57.6	0.319
	4.5	10.8	13.7	162	3.44	31.9	42.5	324	63.8	0.319
	5	11.9	15.2	177	3.42	34.9	46.7	355	69.9	0.319
	6	14.1	18	207	3.39	40.7	54.9	413	81	0.319

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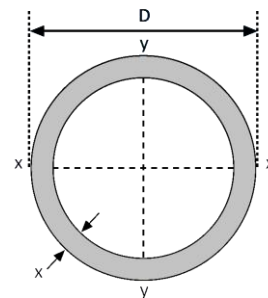


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness							J	C	
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
114.3	3	8.23	10.5	163	3.94	28.4	37.2	325	56.9	0.359
	3.2	8.77	11.2	172	3.93	30.2	39.5	345	60.4	0.359
	3.6	9.83	12.5	192	3.92	33.6	44.1	384	67.2	0.359
	5	13.48	17.2	257	3.87	45	59.8	514	89.9	0.359
	6	16.03	20.4	300	3.83	52.5	70.4	600	105	0.359
	6.3	16.78	21.4	313	3.82	54.7	73.6	625	109	0.359
139.7	5	16.61	21.2	481	4.77	68.8	90.8	961	138	0.439
	6	19.78	25.2	564	4.73	80.8	107	1130	162	0.439
	6.3	20.73	26.4	589	4.72	84.3	112	1177	169	0.439
	8	25.98	33.1	720	4.66	103	139	1441	206	0.439
	10	31.99	40.7	862	4.6	123	169	1724	247	0.439
168.3	4	16.21	20.6	697	5.81	82.8	108	1394	166	0.529
	5	20.14	25.7	856	5.78	102	133	1712	203	0.529
	6.3	25.17	32.1	1053	5.73	125	165	2107	250	0.529
	8	31.63	40.3	1297	5.67	154	206	2595	308	0.529
	10	39.04	49.7	1564	5.61	186	251	3128	372	0.529
	12.5	48.03	61.2	1868	5.53	222	304	3737	444	0.529
193.7	4	18.71	23.8	1073	6.71	111	144	2146	222	0.609
	4.5	21	26.7	1198	6.69	124	161	2395	247	0.609
	5	23.27	29.6	1320	6.67	136	178	2640	273	0.609
	6	27.77	35.4	1560	6.64	161	211	3119	322	0.609
	6.3	29.12	37.1	1630	6.63	168	221	3260	337	0.609
	8	36.64	46.7	2016	6.57	208	276	4031	416	0.609
	10	45.3	57.7	2442	6.5	252	338	4883	504	0.609
	12.5	55.86	71.2	2934	6.42	303	411	5869	606	0.609

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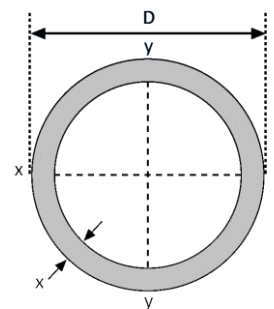


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness									
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
219.1	4.5	23.82	30.3	1747	7.59	159	207	3494	319	0.688
	5	26.4	33.6	1928	7.57	176	229	3856	352	0.688
	6	31.53	40.2	2282	7.54	208	273	4564	417	0.688
	6.3	33.06	42.1	2386	7.53	218	285	4772	436	0.688
	8	41.65	53.1	2960	7.47	270	357	5919	540	0.688
	10	51.57	65.7	3598	7.4	328	438	7197	657	0.688
	12	61.29	78.1	4200	7.33	383	515	8400	767	0.688
	12.5	63.69	81.1	4345	7.32	397	534	8689	793	0.688
	16	80.14	102	5297	7.2	483	661	10600	967	0.688
244.5	5	29.53	37.6	2699	8.47	221	287	5397	441	0.768
	6	35.29	45	3199	8.43	262	341	6397	523	0.768
	6.3	37.01	47.1	3346	8.42	274	358	6692	547	0.768
	8	46.66	59.4	4160	8.37	340	448	8321	681	0.768
	10	57.83	73.7	5073	8.3	415	550	10150	830	0.768
	12	68.81	87.7	5938	8.23	486	649	11880	972	0.768
	12.5	71.52	91.1	6147	8.21	503	673	12300	1006	0.768
	16	90.16	115	7533	8.1	616	837	15070	1232	0.768
273	5	33.05	42.1	3781	9.48	277	359	7562	554	0.858
	6	39.51	50.3	4487	9.44	329	428	8974	657	0.858
	6.3	41.44	52.8	4696	9.43	344	448	9392	688	0.858
	8	52.28	66.6	5852	9.37	429	562	11700	857	0.858
	10	64.86	82.6	7154	9.31	524	692	14310	1048	0.858
	12	77.24	98.4	8396	9.24	615	818	16790	1230	0.858
	12.5	80.3	102	8697	9.22	637	849	17400	1274	0.858
	16	101.41	129	10710	9.1	784	1058	21410	1569	0.858

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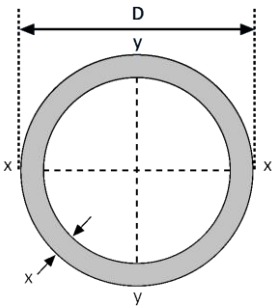


(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness									
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
323.9	5	39.32	50.1	6369	11.3	393	509	12740	787	1.02
	6	47.04	59.9	7572	11.2	468	606	15150	935	1.02
	6.3	49.34	62.9	7929	11.2	490	636	15860	979	1.02
	8	62.32	79.4	9910	11.2	612	799	19820	1224	1.02
	10	77.41	98.6	12160	11.1	751	986	24320	1501	1.02
	12	92.3	118	14320	11	884	1168	28640	1768	1.02
	12.5	95.99	122	14850	11	917	1213	29690	1833	1.02
	16	121.49	155	18390	10.9	1136	1518	36780	2271	1.02
355.6	5	43.23	55.1	8464	12.4	476	615	16930	952	1.12
	6	51.73	65.9	10070	12.4	566	733	20140	1133	1.12
	6.3	54.27	69.1	10550	12.4	593	769	21090	1186	1.12
	8	68.58	87.4	13200	12.3	742	967	26400	1485	1.12
	10	85.23	109	16220	12.2	912	1195	32450	1825	1.12
	12	101.68	130	19140	12.2	1076	1417	38280	2153	1.12
	12.5	105.77	135	19850	12.1	1117	1472	39700	2233	1.12
	16	134	171	24660	12	1387	1847	49330	2774	1.12
406.4	6	59.25	75.5	15130	14.2	745	962	30260	1489	1.28
	6.3	62.16	79.2	15850	14.1	780	1009	31700	1560	1.28
	8	78.6	100	19870	14.1	978	1270	39750	1956	1.28
	10	97.76	125	24480	14	1205	1572	48950	2409	1.28
	12	116.72	149	28940	14	1424	1867	57870	2848	1.28
	12.5	121.43	155	30030	13.9	1478	1940	60060	2956	1.28
	16	154.05	196	37450	13.8	1843	2440	74900	3686	1.28
457	6	66.73	85	21620	15.9	946	1220	43240	1892	1.44
	6.3	70.02	89.2	22650	15.9	991	1280	45310	1983	1.44
	8	88.58	113	28450	15.9	1245	1613	56890	2490	1.44
	10	110.24	140	35090	15.8	1536	1998	70180	3071	1.44
	12	131.69	168	41560	15.7	1819	2377	83110	3637	1.44
	12.5	137.03	175	43150	15.7	1888	2470	86290	3776	1.44
	16	174.01	222	53960	15.6	2361	3113	107900	4723	1.44

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(Metric units)

Standard Sectional Dimension		Unit Weight	Sectional Area	Moment of Inertia	Radius Of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants		Surface Area Per Metre
Outside Diameter	Thickness									
D	t	M	A	I	r	Z	S	J	C	
mm	mm	Kg/m	cm ²	cm ⁴	cm	cm ³	cm ³	cm ⁴	cm ³	m ² /m
508	6	74.28	94.6	29810	17.7	1174	1512	59620	2347	1.6
	6.3	77.95	99.3	31250	17.7	1230	1586	62490	2460	1.6
	8	98.65	126	39280	17.7	1546	2000	78560	3093	1.6
	10	122.81	156	48520	17.6	1910	2480	97040	3820	1.6
	12	146.79	187	57540	17.5	2265	2953	115100	4530	1.6
	12.5	152.75	195	59760	17.5	2353	3070	119500	4705	1.6
	16	194.14	247	74910	17.4	2949	3874	149800	5898	1.6