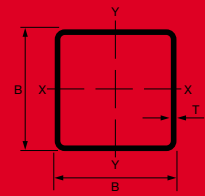


Size	Thickness	Mass	Sectional area	Moment of inertia	Radius of gyration	Elastic modulus	Plastic modulus	Torsional constants		Superficial area/m	Approx. length/tonne
B x B mm	T mm	M kg/m	A cm ²	I cm ⁴	i cm	W _{el} cm ³	W _{pl} cm ³	I _t cm ⁴	C _t cm ³	A _s m ² /m	m/t
40 x 40	3.0	3.41	4.34	9.78	1.50	4.89	5.97	15.7	7.10	0.152	293
	3.2	3.61	4.60	10.2	1.49	5.11	6.28	16.5	7.42	0.152	277
	3.6	4.01	5.10	11.1	1.47	5.54	6.88	18.1	8.01	0.151	250
	4.0	4.39	5.59	11.8	1.45	5.91	7.44	19.5	8.54	0.150	228
	5.0	5.28	6.73	13.4	1.41	6.68	8.66	22.5	9.60	0.147	189
50 x 50	3.0	4.35	5.54	20.2	1.91	8.08	9.70	32.1	11.8	0.192	230
	3.2	4.62	5.88	21.2	1.90	8.49	10.2	33.8	12.4	0.192	217
	3.6	5.14	6.54	23.2	1.88	9.27	11.3	37.2	13.5	0.191	195
	4.0	5.64	7.19	25.0	1.86	9.99	12.3	40.4	14.5	0.190	177
	5.0	6.85	8.73	28.9	1.82	11.6	14.5	47.6	16.7	0.187	146
	6.3	8.31	10.6	32.8	1.76	13.1	17.0	55.2	18.8	0.184	120
60 x 60	3.0	5.29	6.74	36.2	2.32	12.1	14.3	56.9	17.7	0.232	189
	3.2	5.62	7.16	38.2	2.31	12.7	15.2	60.2	18.6	0.232	178
	3.6	6.27	7.98	41.9	2.29	14.0	16.8	66.5	20.4	0.231	160
	4.0	6.90	8.79	45.4	2.27	15.1	18.3	72.5	22.0	0.230	145
	5.0	8.42	10.7	53.3	2.23	17.8	21.9	86.4	25.7	0.227	119
	6.3	10.3	13.1	61.6	2.17	20.5	26.0	102	29.6	0.224	97.2
	8.0	12.5	16.0	69.7	2.09	23.2	30.4	118	33.4	0.219	79.9
70 x 70	3.0	6.24	7.94	59.0	2.73	16.9	19.9	92.2	24.8	0.272	160
	3.2	6.63	8.44	62.3	2.72	17.8	21.0	97.6	26.1	0.272	151
	3.6	7.40	9.42	68.6	2.70	19.6	23.3	108	28.7	0.271	135
	4.0	8.15	10.4	74.7	2.68	21.3	25.5	118	31.2	0.270	123
	5.0	9.99	12.7	88.5	2.64	25.3	30.8	142	36.8	0.267	100
	6.3	12.3	15.6	104	2.58	29.7	36.9	169	42.9	0.264	81.5
	8.0	15.0	19.2	120	2.50	34.2	43.8	200	49.2	0.259	66.5
80 x 80	3.0	7.18	9.14	89.8	3.13	22.5	26.3	140	33.0	0.312	139
	3.2	7.63	9.72	95.0	3.13	23.7	27.9	148	34.9	0.312	131
	3.6	8.53	10.9	105	3.11	26.2	31.0	164	38.5	0.311	117
	4.0	9.41	12.0	114	3.09	28.6	34.0	180	41.9	0.310	106
	5.0	11.6	14.7	137	3.05	34.2	41.1	217	49.8	0.307	86.5
	6.3	14.2	18.1	162	2.99	40.5	49.7	262	58.7	0.304	70.2
	8.0	17.5	22.4	189	2.91	47.3	59.5	312	68.3	0.299	57.0
90 x 90	3.6	9.66	12.3	152	3.52	33.8	39.7	237	49.7	0.351	104
	4.0	10.7	13.6	166	3.50	37.0	43.6	260	54.2	0.350	93.7
	5.0	13.1	16.7	200	3.45	44.4	53.0	316	64.8	0.347	76.1
	6.3	16.2	20.7	238	3.40	53.0	64.3	382	77.0	0.344	61.6
	8.0	20.1	25.6	281	3.32	62.6	77.6	459	90.5	0.339	49.9
100 x 100	3.6	10.8	13.7	212	3.92	42.3	49.5	328	62.3	0.391	92.7
	4.0	11.9	15.2	232	3.91	46.4	54.4	361	68.2	0.390	83.9
	5.0	14.7	18.7	279	3.86	55.9	66.4	439	81.8	0.387	68.0
	6.3	18.2	23.2	336	3.80	67.1	80.9	534	97.8	0.384	54.9
	8.0	22.6	28.8	400	3.73	79.9	98.2	646	116	0.379	44.3
	10.0	27.4	34.9	462	3.64	92.4	116	761	133	0.374	36.5
120 x 120	4.0	14.4	18.4	410	4.72	68.4	79.7	635	101	0.470	69.3
	5.0	17.8	22.7	498	4.68	83.0	97.6	777	122	0.467	56.0
	6.3	22.2	28.2	603	4.62	100	120	950	147	0.464	45.1
	8.0	27.6	35.2	726	4.55	121	146	1160	176	0.459	36.2
	10.0	33.7	42.9	852	4.46	142	175	1382	206	0.454	29.7
	12.5	40.9	52.1	982	4.34	164	207	1623	236	0.448	24.5
140 x 140	5.0	21.0	26.7	807	5.50	115	135	1253	170	0.547	47.7
	6.3	26.1	33.3	984	5.44	141	166	1540	206	0.544	38.3
	8.0	32.6	41.6	1195	5.36	171	204	1892	249	0.539	30.7
	10.0	40.0	50.9	1416	5.27	202	246	2272	294	0.534	25.0
	12.5	48.7	62.1	1653	5.16	236	293	2696	342	0.528	20.5
150 x 150	5.0	22.6	28.7	1002	5.90	134	156	1550	197	0.587	44.3
	6.3	28.1	35.8	1223	5.85	163	192	1909	240	0.584	35.6
	8.0	35.1	44.8	1491	5.77	199	237	2351	291	0.579	28.5
	10.0	43.1	54.9	1773	5.68	236	286	2832	344	0.574	23.2
	12.5	52.7	67.1	2080	5.57	277	342	3375	402	0.568	19.0
	16.0††r	65.2	83.0	2430	5.41	324	411	4026	467	0.559	15.3



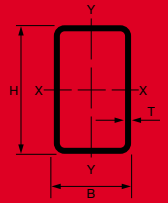
Size	Thickness	Mass	Sectional area	Moment of inertia	Radius of gyration	Elastic modulus	Plastic modulus	Torsional constants		Superficial area/m	Approx. length/tonne
B x B mm	T mm	M kg/m	A cm ²	I cm ⁴	i cm	W _{el} cm ³	W _{pl} cm ³	I _t cm ⁴	C _t cm ³	A _s m ² /m	m/t
160 x 160	5.0	24.1	30.7	1225	6.31	153	178	1892	226	0.627	41.5
	6.3	30.1	38.3	1499	6.26	187	220	2333	275	0.624	33.3
	8.0	37.6	48.0	1831	6.18	229	272	2880	335	0.619	26.6
	10.0	46.3	58.9	2186	6.09	273	329	3478	398	0.614	21.6
	12.5	56.6	72.1	2576	5.98	322	395	4158	467	0.608	17.7
	14.2	63.3	80.7	2809	5.90	351	436	4579	508	0.603	15.8
	16.0	70.2	89.4	3028	5.82	379	476	4988	546	0.599	14.2
180 x 180	5.0	27.3	34.7	1765	7.13	196	227	2718	290	0.707	36.7
	6.3	34.0	43.3	2168	7.07	241	281	3361	355	0.704	29.4
	8.0	42.7	54.4	2661	7.00	296	349	4162	434	0.699	23.4
	10.0	52.5	66.9	3193	6.91	355	424	5048	518	0.694	19.0
	12.5	64.4	82.1	3790	6.80	421	511	6070	613	0.688	15.5
	14.2	72.2	92.0	4154	6.72	462	566	6711	670	0.683	13.8
	16.0	80.2	102	4504	6.64	500	621	7343	724	0.679	12.5
200 x 200	5.0	30.4	38.7	2445	7.95	245	283	3756	362	0.787	32.9
	6.3	38.0	48.4	3011	7.89	301	350	4653	444	0.784	26.3
	8.0	47.7	60.8	3709	7.81	371	436	5778	545	0.779	21.0
	10.0	58.8	74.9	4471	7.72	447	531	7031	655	0.774	17.0
	12.5	72.3	92.1	5336	7.61	534	643	8491	778	0.768	13.8
	14.2	81.1	103	5872	7.54	587	714	9417	854	0.763	12.3
	16.0	90.3	115	6394	7.46	639	785	10340	927	0.759	11.1
250 x 250	5.0	38.3	48.7	4861	9.99	389	447	7430	577	0.987	26.1
	6.3	47.9	61.0	6014	9.93	481	556	9238	712	0.984	20.9
	8.0	60.3	76.8	7455	9.86	596	694	11525	880	0.979	16.6
	10.0	74.5	94.9	9055	9.77	724	851	14106	1065	0.974	13.4
	12.5	91.9	117	10915	9.66	873	1037	17164	1279	0.968	10.9
	14.2	103	132	12094	9.58	967	1158	19139	1413	0.963	9.97
	16.0	115	147	13267	9.50	1061	1280	21138	1546	0.959	8.67
260 x 260	6.3	49.9	63.5	6788	10.3	522	603	10417	773	1.02	20.1
	8.0	62.8	80.0	8423	10.3	648	753	13006	956	1.02	15.9
	10.0	77.7	98.9	10242	10.2	788	924	15932	1159	1.01	12.9
	12.5	95.8	122	12365	10.1	951	1127	19409	1394	1.01	10.4
	14.2	108	137	13714	9.99	1055	1259	21659	1542	1.00	9.27
	16.0	120	153	15061	9.91	1159	1394	23942	1689	0.999	8.30
300 x 300	6.3	57.8	73.6	10547	12.0	703	809	16136	1043	1.18	17.3
	8.0	72.8	92.8	13128	11.9	875	1013	20194	1294	1.18	13.7
	10.0	90.2	115	16026	11.8	1068	1246	24807	1575	1.17	11.1
	12.5	112	142	19442	11.7	1296	1525	30333	1904	1.17	8.97
	14.2	126	160	21637	11.6	1442	1708	33938	2114	1.16	7.95
	16.0	141	179	23850	11.5	1590	1895	37622	2325	1.16	7.12
350 x 350	8.0	85.4	109	21129	13.9	1207	1392	32384	1789	1.38	11.7
	10.0	106	135	25884	13.9	1479	1715	39886	2185	1.37	9.44
	12.5	131	167	31541	13.7	1802	2107	48934	2654	1.37	7.62
	14.2	148	189	35211	13.7	2012	2364	54879	2957	1.36	6.76
	16.0	166	211	38942	13.6	2225	2630	60990	3264	1.36	6.04
400 x 400	8.0	97.9	125	31857	16.0	1593	1830	48695	2363	1.58	10.2
	10.0	122	155	39128	15.9	1956	2260	60092	2895	1.57	8.22
	12.5	151	192	47839	15.8	2392	2782	73906	3530	1.57	6.63
	14.2	170	217	53526	15.7	2676	3127	83026	3942	1.56	5.87
	16.0	191	243	59344	15.6	2967	3484	92442	4362	1.56	5.24
	20.0#1	235	300	71535	15.4	3577	4247	112489	5237	1.55	4.25

#1 SAW process (single longitudinal seam weld, slightly proud)

Non-regular or Other sizes production

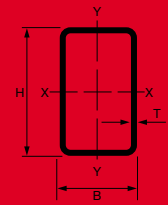
Celsius® 355 EN 10210 S355J2H

Hot finished rectangular hollow sections



Size H x B mm	Thickness T mm	Mass M kg/m	Sectional area A cm ²	Moment of inertia		Radius of gyration		Elastic modulus		Plastic modulus		Torsional constants		Superficial area/ m A _s m ² /m	Approx length/ tonne m/t
				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		
50 x 30	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	293
	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	277
	3.6	4.01	5.10	15.4	6.67	1.74	1.14	6.16	4.45	7.94	5.46	15.4	7.31	0.151	250
	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	228
	5.0	5.28	6.73	18.7	7.89	1.67	1.08	7.49	5.26	10.0	6.80	19.0	8.67	0.147	189
60 x 40	3.0	4.35	5.54	26.5	13.9	2.18	1.58	8.82	6.95	10.9	8.19	29.2	11.2	0.192	230
	3.2	4.62	5.88	27.8	14.6	2.18	1.57	9.27	7.29	11.5	8.64	30.8	11.7	0.192	217
	3.6	5.14	6.54	30.4	15.9	2.16	1.56	10.1	7.93	12.7	9.50	33.8	12.8	0.191	195
	4.0	5.64	7.19	32.8	17.0	2.14	1.54	10.9	8.52	13.8	10.3	36.7	13.7	0.190	177
	5.0	6.85	8.73	38.1	19.5	2.09	1.50	12.7	9.77	16.4	12.2	43.0	15.7	0.187	146
	6.3	8.31	10.6	43.4	21.9	2.02	1.44	14.5	11.0	19.2	14.2	49.5	17.6	0.184	120
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	15.3	0.232	189
	3.2	5.62	7.16	57.2	18.9	2.83	1.63	14.3	9.46	18.0	11.0	46.2	16.1	0.232	178
	3.6	6.27	7.98	62.8	20.6	2.81	1.61	15.7	10.3	20.0	12.1	50.8	17.5	0.231	160
	4.0	6.90	8.79	68.2	22.2	2.79	1.59	17.1	11.1	21.8	13.2	55.2	18.9	0.230	145
	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	119
	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	97.2
	8.0	12.5	16.0	106	32.1	2.58	1.42	26.5	16.1	36.5	21.2	85.8	27.4	0.219	79.9
	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	151
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	135
4.0		8.15	10.4	107	41.9	3.21	2.01	23.8	16.8	29.8	19.6	97.5	28.0	0.270	123
5.0		9.99	12.7	127	49.2	3.16	1.97	28.3	19.7	36.0	23.5	116	32.9	0.267	100
6.3		12.3	15.6	150	57.0	3.10	1.91	33.3	22.8	43.2	28.0	138	38.1	0.264	81.5
8.0	15.0	19.2	174	64.6	3.01	1.84	38.6	25.8	51.4	32.9	160	43.2	0.259	66.5	
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	149
	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	140
	3.6	7.96	10.1	128	42.6	3.55	2.05	25.6	17.0	32.1	19.6	103	29.0	0.291	126
	4.0	8.78	11.2	140	46.2	3.53	2.03	27.9	18.5	35.2	21.5	113	31.4	0.290	114
	5.0	10.8	13.7	167	54.3	3.48	1.99	33.3	21.7	42.6	25.8	135	36.9	0.287	92.8
	6.3	13.3	16.9	197	63.0	3.42	1.93	39.4	25.2	51.3	30.8	160	42.9	0.284	75.4
	8.0	16.3	20.8	230	71.7	3.33	1.86	46.0	28.7	61.4	36.3	186	48.9	0.279	61.4
	10.0	19.6	24.9	259	78.4	3.22	1.77	51.8	31.4	71.2	41.4	209	53.61	0.274	51.1
	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	131
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	117
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	106
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	86.5
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	70.2
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	57.0
120 x 60	3.6	9.66	12.3	227	76.3	4.30	2.49	37.9	25.4	47.2	28.9	183	43.3	0.351	104
	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	93.7
	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	76.1
	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	61.6
	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	49.9
	10.0	24.3	30.9	488	152	3.97	2.21	81.4	50.5	109	64.4	396	86.1	0.334	41.2
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	92.7
	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	83.9
	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	68.0
	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	54.9
	8.0	22.6	28.8	525	273	4.27	3.08	87.5	68.1	111	82.6	587	110	0.379	44.3
	10.0	27.4	34.9	609	313	4.18	2.99	102	78.1	131	97.3	688	126	0.374	36.5
150 x 100	4.0	15.1	19.2	607	324	5.63	4.11	81.0	64.8	97.4	73.6	660	105	0.490	66.4
	5.0	18.6	23.7	739	392	5.58	4.07	98.5	78.5	119	90.1	807	127	0.487	53.7
	6.3	23.1	29.5	898	474	5.52	4.01	120	94.8	147	110	986	153	0.484	43.2
	8.0	28.9	36.8	1087	569	5.44	3.94	145	114	180	135	1203	183	0.479	34.7
	10.0	35.3	44.9	1282	665	5.34	3.85	171	133	216	161	1432	214	0.474	28.4
	12.5	42.8	54.6	1488	763	5.22	3.74	198	153	256	190	1679	246	0.468	23.3
150 x 125	4.0	16.6	21.2	714	539	5.80	5.04	95.2	86.3	112	98.9	949	133	0.540	60.1
	5.0	20.6	26.2	870	656	5.76	5.00	116	105	138	121	1164	162	0.537	48.6
	6.3	25.6	32.6	1061	798	5.70	4.94	141	128	169	149	1429	196	0.534	39.0
	8.0	32.0	40.8	1289	966	5.62	4.87	172	155	208	183	1754	237	0.529	31.3
	10.0	39.2	49.9	1528	1141	5.53	4.78	204	183	251	221	2103	279	0.524	25.5
	12.5	47.7	60.8	1784	1327	5.42	4.67	238	212	299	262	2491	324	0.518	20.9
160 x 80	4.0	14.4	18.4	612	207	5.77	3.35	76.5	51.7	94.7	58.3	493	88.1	0.470	69.3
	5.0	17.8	22.7	744	249	5.72	3.31	93.0	62.3	116	71.1	600	106	0.467	56.0
	6.3	22.2	28.2	903	299	5.66	3.26	113	74.8	142	86.8	730	127	0.464	45.1
	8.0	27.6	35.2	1091	356	5.57	3.18	136	89.0	175	106	883	151	0.459	36.2
	10.0	33.7	42.9	1284	411	5.47	3.10	161	103	209	125	1041	175	0.454	29.7
	12.5	40.9	52.1	1485	465	5.34	2.99	186	116	247	146	1204	198	0.448	24.5

Non-regular or Other sizes production



Size	Thickness	Mass	Sectional area	Moment of inertia		Radius of gyration		Elastic modulus		Plastic modulus		Torsional constants		Superficial area/ m	Approx length/ tonne
H x B mm	T mm	M kg/m	A cm ²	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	A _s m ² /m	m/t
200 x 100	5.0	22.6	28.7	1495	505	7.21	4.19	149	101	185	114	1204	172	0.587	44.3
	6.3	28.1	35.8	1829	613	7.15	4.14	183	123	228	140	1475	208	0.584	35.6
	8.0	35.1	44.8	2234	739	7.06	4.06	223	148	282	172	1804	251	0.579	28.5
	10.0	43.1	54.9	2664	869	6.96	3.98	266	174	341	206	2156	295	0.574	23.2
	12.5	52.7	67.1	3136	1004	6.84	3.87	314	201	408	245	2541	341	0.568	19.0
	16.0††	65.2	83.0	3678	1147	6.66	3.72	368	229	491	290	2982	391	0.559	15.3
200 x 120	5.0	24.1	30.7	1685	762	7.40	4.98	168	127	205	144	1648	210	0.627	41.5
	6.3	30.1	38.3	2065	929	7.34	4.92	207	155	253	177	2028	255	0.624	33.3
	8.0	37.6	48.0	2529	1128	7.26	4.85	253	188	313	218	2495	310	0.619	26.6
	10.0	46.3	58.9	3026	1337	7.17	4.76	303	223	379	263	3001	367	0.614	21.6
	12.5	56.6	72.1	3576	1562	7.04	4.66	358	260	455	314	3569	428	0.608	17.7
	14.2	63.3	80.7	3907	1693	6.96	4.58	391	282	503	346	3915	464	0.603	15.8
16.0	70.2	89.4	4221	1813	6.87	4.50	422	302	550	377	4247	497	0.599	14.2	
200 x 150	5.0	26.5	33.7	1970	1265	7.64	6.12	197	169	234	192	2386	267	0.687	37.8
	6.3	33.0	42.1	2420	1549	7.58	6.07	242	207	289	237	2947	326	0.684	30.3
	8.0	41.4	52.8	2971	1894	7.50	5.99	297	253	359	294	3643	398	0.679	24.1
	10.0	51.0	64.9	3568	2264	7.41	5.91	357	302	436	356	4409	475	0.674	19.6
	12.5	62.5	79.6	4236	2673	7.30	5.80	424	356	525	428	5287	559	0.668	16.0
	14.2	70.0	89.2	4644	2919	7.22	5.72	464	389	582	473	5834	610	0.663	14.3
16.0	77.7	99.0	5036	3152	7.13	5.64	504	420	638	518	6370	658	0.659	12.9	
250 x 100	5.0	26.5	33.7	2610	618	8.80	4.28	209	124	263	138	1617	217	0.687	37.8
	6.3	33.0	42.1	3207	751	8.73	4.22	257	150	326	169	1983	264	0.684	30.3
	8.0	41.4	52.8	3940	909	8.64	4.15	315	182	404	209	2430	319	0.679	24.1
	10.0	51.0	64.9	4733	1072	8.54	4.06	379	214	491	251	2908	376	0.674	19.6
	12.5	62.5	79.6	5622	1245	8.41	3.96	450	249	592	299	3436	438	0.668	16.0
	14.2	70.0	89.2	6165	1344	8.31	3.88	493	269	655	329	3752	473	0.663	14.3
16.0	77.7	99.0	6686	1433	8.22	3.80	535	287	719	358	4050	505	0.659	12.9	
250 x 150	5.0	30.4	38.7	3360	1527	9.31	6.28	269	204	324	228	3278	337	0.787	32.9
	6.3	38.0	48.4	4143	1874	9.25	6.22	331	250	402	283	4054	413	0.784	26.3
	8.0	47.7	60.8	5111	2298	9.17	6.15	409	306	501	350	5021	506	0.779	21.0
	10.0	58.8	74.9	6174	2755	9.08	6.06	494	367	611	426	6090	605	0.774	17.0
	12.5	72.3	92.1	7387	3265	8.96	5.96	591	435	740	514	7326	717	0.768	13.8
	14.2	81.1	103	8141	3576	8.87	5.88	651	477	823	570	8102	784	0.763	12.3
16.0	90.3	115	8879	3873	8.79	5.80	710	516	906	625	8868	849	0.759	11.1	
250 x 200	10.0 r	66.7	84.9	7614	5374	9.47	7.95	609	537	731	626	9889	835	0.874	15.0
	12.5 r	82.1	105	9151	6437	9.35	7.85	732	644	888	760	11986	997	0.868	12.2
	14.2 r	92.3	118	10117	7100	9.28	7.77	809	710	990	846	13327	1098	0.863	10.8
260 x 140	5.0	30.4	38.7	3532	1354	9.55	5.91	272	193	331	216	3078	326	0.787	32.9
	6.3	38.0	48.4	4355	1660	9.49	5.86	335	237	411	267	3803	399	0.784	26.3
	8.0	47.7	60.8	5373	2032	9.40	5.78	413	290	511	331	4704	488	0.779	21.0
	10.0	58.8	74.9	6490	2432	9.31	5.70	499	347	624	402	5698	584	0.774	17.0
	12.5	72.3	92.1	7767	2876	9.18	5.59	597	411	756	485	6841	690	0.768	13.8
	14.2	81.1	103	8560	3144	9.10	5.52	658	449	840	537	7555	754	0.763	12.3
16.0	90.3	115	9337	3400	9.01	5.44	718	486	925	588	8257	815	0.759	11.1	
300 x 100	5.0	30.4	38.7	4146	731	10.3	4.34	276	146	354	161	2040	262	0.787	32.9
	6.3	38.0	48.4	5111	890	10.3	4.29	341	178	439	199	2504	319	0.784	26.3
	8.0	47.7	60.8	6305	1078	10.2	4.21	420	216	546	245	3069	387	0.779	21.0
	10.0	58.8	74.9	7613	1275	10.1	4.13	508	255	666	296	3676	458	0.774	17.0
	12.5	72.3	92.1	9103	1486	9.94	4.02	607	297	806	354	4350	534	0.768	13.8
	14.2	81.1	103	10028	1607	9.85	3.94	669	321	896	390	4755	578	0.763	12.3
16.0	90.3	115	10931	1719	9.75	3.87	729	344	986	425	5138	619	0.759	11.1	
300 x 150	8.0	54.0	68.8	8011	2702	10.8	6.27	534	360	663	407	6454	613	0.879	18.5
	10.0	66.7	84.9	9716	3246	10.7	6.18	648	433	811	496	7839	736	0.874	15.0
	12.5	82.1	105	11688	3858	10.6	6.07	779	514	986	600	9445	874	0.868	12.2
	14.2	92.3	118	12930	4233	10.5	6.00	862	564	1099	666	10459	959	0.863	10.8
	16.0	103	131	14161	4595	10.4	5.92	944	613	1213	732	11464	1041	0.859	9.72
300 x 200	5.0	38.3	48.7	6322	3396	11.4	8.35	421	340	501	380	6824	552	0.987	26.1
	6.3	47.9	61.0	7829	4193	11.3	8.29	522	419	624	472	8476	681	0.984	20.9
	8.0	60.3	76.8	9717	5184	11.3	8.22	648	518	779	589	10562	840	0.979	16.6
	10.0	74.5	94.9	11819	6278	11.2	8.13	788	628	956	721	12908	1015	0.974	13.4
	12.5	91.9	117	14273	7537	11.0	8.02	952	754	1165	877	15677	1217	0.968	10.9
	14.2	103	132	15832	8328	11.0	7.95	1055	833	1302	978	17457	1343	0.963	9.67
	16.0	115	147	17390	9109	10.9	7.87	1159	911	1441	1080	19252	1468	0.959	8.67

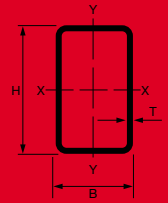
†† Hot formed from seamless hollow

Non-regular or Other sizes production

r External corner radius >2T but ≤3T

Celsius® 355 EN 10210 S355J2H

Hot finished rectangular hollow sections (continued)



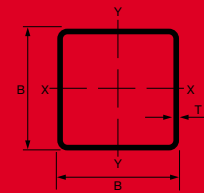
Size	Thickness	Mass	Sectional area	Moment of inertia		Radius of gyration		Elastic modulus		Plastic modulus		Torsional constants		Superficial area/ m	Approx length/ tonne
H x B mm	T mm	M kg/m	A cm ²	I _{xx} cm ⁴	I _{yy} cm ⁴	i _{xx} cm	i _{yy} cm	W _{elxx} cm ³	W _{elyy} cm ³	W _{plxx} cm ³	W _{plyy} cm ³	I _t cm ⁴	C _t cm ³	A _s m ² /m	m/t
300 x 250	6.3	52.8	67.3	9188	6950	11.7	10.2	613	556	716	633	12155	862	1.08	18.9
	8.0	66.5	84.8	11422	8627	11.6	10.1	761	690	896	791	15187	1067	1.08	15.0
	10.0	82.4	105	13923	10496	11.5	10.0	928	840	1101	971	18620	1295	1.07	12.1
	12.5	102	130	16857	12680	11.4	9.89	1124	1014	1345	1185	22711	1560	1.07	9.83
	14.2	115	146	18734	14070	11.3	9.82	1249	1126	1505	1325	25365	1728	1.06	8.73
16.0	128	163	20620	15460	11.2	9.74	1375	1237	1668	1467	28064	1896	1.06	7.81	
350 x 150	6.3	47.9	61.0	9481	2525	12.5	6.43	542	337	676	373	6389	586	0.984	20.9
	8.0	60.3	76.8	11770	3105	12.4	6.36	673	414	844	464	7926	721	0.979	16.6
	10.0	74.5	94.9	14320	3737	12.3	6.27	818	498	1035	566	9633	867	0.974	13.4
	12.5	91.9	117	17297	4450	12.2	6.17	988	593	1263	686	11619	1032	0.968	10.9
	14.2	103	132	19189	4890	12.1	6.09	1097	652	1411	763	12875	1134	0.963	9.67
16.0	115	147	21079	5317	12.0	6.01	1205	709	1561	840	14124	1233	0.959	8.67	
350 x 250	6.3	57.8	73.6	13203	7885	13.4	10.4	754	631	892	709	15215	1011	1.18	17.3
	8.0	72.8	92.8	16449	9798	13.3	10.3	940	784	1118	888	19027	1254	1.18	13.7
	10.0	90.2	115	20102	11937	13.2	10.2	1149	955	1375	1091	23354	1525	1.17	11.1
	12.5	112	142	24419	14444	13.1	10.1	1395	1156	1685	1334	28526	1842	1.17	8.97
	14.2	126	160	27200	16046	13.0	10.0	1554	1284	1887	1492	31892	2044	1.16	7.95
16.0	141	179	30011	17654	12.9	9.93	1715	1412	2095	1655	35325	2246	1.16	7.12	
400 x 120	6.3	49.9	63.5	11790	1744	13.6	5.24	590	291	762	320	5039	527	1.02	20.1
	8.0	62.8	80.0	14644	2134	13.5	5.17	732	356	952	397	6218	645	1.02	15.9
	10.0	77.7	98.9	17829	2551	13.4	5.08	891	425	1168	483	7509	771	1.01	12.9
	12.5	95.8	122	21552	3013	13.3	4.97	1078	502	1426	583	8980	911	1.01	10.4
	14.2	108	137	23923	3292	13.2	4.89	1196	549	1593	646	9893	996	1.00	9.27
16.0	120	153	26295	3558	13.1	4.82	1315	593	1764	709	10783	1077	0.999	8.30	
400 x 150	6.3	52.8	67.3	13255	2851	14.0	6.51	663	380	836	418	7595	673	1.08	18.9
	8.0	66.5	84.8	16488	3509	13.9	6.43	824	468	1046	521	9424	828	1.08	15.0
	10.0	82.4	105	20111	4227	13.8	6.35	1006	564	1285	636	11460	998	1.07	12.1
	12.5	102	130	24369	5043	13.7	6.24	1218	672	1571	772	13831	1190	1.07	9.83
	14.2	115	146	27095	5547	13.6	6.16	1355	740	1758	859	15333	1309	1.06	8.73
16.0	128	163	29836	6038	13.5	6.09	1492	805	1948	947	16829	1426	1.06	7.81	
400 x 200	6.3	57.8	73.6	15696	5376	14.6	8.55	785	538	960	594	12612	917	1.18	17.3
	8.0	72.8	92.8	19562	6660	14.5	8.47	978	666	1203	743	15735	1135	1.18	13.7
	10.0	90.2	115	23914	8084	14.4	8.39	1196	808	1480	911	19259	1376	1.17	11.1
	12.5	112	142	29063	9738	14.3	8.28	1453	974	1813	1111	23438	1656	1.17	8.97
	14.2	126	160	32381	10784	14.2	8.21	1619	1078	2032	1242	26137	1834	1.16	7.95
16.0	141	179	35738	11824	14.1	8.13	1787	1182	2256	1374	28871	2010	1.16	7.12	
400 x 300	8.0	85.4	109	25709	16540	15.4	12.3	1285	1103	1517	1247	31014	1749	1.38	11.7
	10.0	106	135	31521	20233	15.3	12.2	1576	1349	1870	1536	38180	2135	1.37	9.44
	12.5	131	167	38451	24611	15.2	12.1	1923	1641	2298	1884	46810	2592	1.37	7.62
	14.2	148	189	42954	27441	15.1	12.1	2148	1829	2579	2113	52472	2887	1.36	6.76
16.0	166	211	47541	30309	15.0	12.0	2377	2021	2870	2349	58286	3184	1.36	6.04	
450 x 250	8.0	85.4	109	30082	12142	16.6	10.6	1337	971	1622	1081	27083	1629	1.38	11.7
	10.0	106	135	36895	14819	16.5	10.5	1640	1185	2000	1331	33284	1986	1.37	9.44
	12.5	131	167	45026	17973	16.4	10.4	2001	1438	2458	1631	40719	2406	1.37	7.62
	14.2	148	189	50315	19999	16.3	10.3	2236	1600	2759	1827	45577	2675	1.36	6.76
16.0	166	211	55705	22041	16.2	10.2	2476	1763	3070	2029	50545	2947	1.36	6.04	
500 x 200	8.0	85.4	109	34045	8135	17.7	8.65	1362	814	1707	896	21124	1430	1.38	11.7
	10.0	106	135	41755	9891	17.6	8.56	1670	989	2105	1101	25872	1737	1.37	9.44
	12.5	131	167	50956	11938	17.5	8.45	2038	1194	2586	1346	31514	2096	1.37	7.62
	14.2	148	189	56939	13239	17.4	8.38	2278	1324	2904	1505	35166	2324	1.36	6.76
16.0	166	211	63036	14539	17.3	8.30	2521	1454	3231	1669	38872	2552	1.36	6.04	
500 x 300	8.0	97.9	125	43728	19951	18.7	12.6	1749	1330	2100	1480	42563	2203	1.58	10.2
	10.0	122	155	53762	24439	18.6	12.6	2150	1629	2595	1826	52450	2696	1.57	8.22
	12.5	151	192	65813	29780	18.5	12.5	2633	1985	3196	2244	64389	3281	1.57	6.63
	14.2	170	217	73700	33245	18.4	12.4	2948	2216	3593	2519	72244	3660	1.56	5.87
	16.0	191	243	81783	36768	18.3	12.3	3271	2451	4005	2804	80329	4044	1.56	5.24
20.0 #1	235	300	98777	44078	18.2	12.1	3951	2939	4885	3408	97447	4842	1.55	4.25	

#1 SAW process (single longitudinal seam weld, slightly proud)

Non-regular or Other sizes production

Jumbo 355 EN 10210 S355J2H

Hot finished square hollow sections



Jumbo 355 Squares

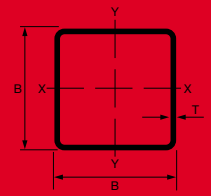
Size	Thickness	Mass	Sectional area	Moment of inertia	Radius of gyration	Elastic modulus	Plastic modulus	Torsional constants	Superficial area/ m	Approx length/ tonne	Length range		
B x B mm	T mm	M kg/m	A cm ²	I cm ⁴	i cm	W _{el} cm ³	W _{pl} cm ³	I _t cm ⁴	C _t cm ³	A _s m ² /m	m/t	m	
350 x 350	19.0 *	190	242	43358	13.4	2478	2967	70931	3738	1.33	5.26	7 - 15	
	22.0 *	217	276	48355	13.2	2763	3343	80178	4178	1.32	4.61	7 - 15	
	25.0 #	242	309	52893	13.1	3022	3695	88883	4581	1.31	4.12	7 - 12	
400 x 400	22.0 *	251	320	74707	15.3	3735	4476	122354	5637	1.52	3.98	7 - 15	
	25.0 #	282	359	82151	15.1	4108	4967	136141	6210	1.51	3.55	7 - 12	
	28.0 #	311	396	88996	15.0	4450	5430	149220	6742	1.50	3.21	7 - 12	
	32.0 #	349	445	97222	14.8	4861	6005	165552	7389	1.49	2.86	7 - 12	
	36.0 #	385	491	104458	14.6	5223	6533	180610	7967	1.48	2.60	7 - 12	
	40.0 #	420	535	110747	14.4	5537	7015	194383	8479	1.46	2.38	7 - 12	
450 x 450	12.0 *	162	207	65433	17.8	2908	3371	102445	4367	1.76	6.17	7 - 15	
	16.0 *	213	271	84067	17.6	3736	4376	133503	5617	1.75	4.70	7 - 15	
	19.0 *	250	318	97055	17.5	4314	5092	155773	6492	1.73	4.00	7 - 15	
	22.0 *	286	364	109220	17.3	4854	5775	177161	7315	1.72	3.50	7 - 15	
	25.0 #	321	409	120583	17.2	5359	6427	197663	8088	1.71	3.12	7 - 12	
	28.0 #	355	452	131166	17.0	5830	7047	217274	8813	1.70	2.82	7 - 12	
	32.0 #	399	509	144099	16.8	6404	7826	242029	9707	1.69	2.50	7 - 12	
	36.0 #	442	563	155731	16.6	6921	8550	265183	10520	1.68	2.26	7 - 12	
	40.0 #	483	615	166110	16.4	7383	9222	286723	11257	1.66	2.07	7 - 12	
	500 x 500	12.0 *	181	231	90752	19.8	3630	4196	141480	5449	1.96	5.53	7 - 15
		16.0 *	238	303	117050	19.6	4682	5461	184830	7035	1.95	4.20	7 - 15
19.0 *		280	356	135538	19.5	5422	6368	216081	8153	1.93	3.58	7 - 15	
22.0 *		320	408	152993	19.4	6120	7239	246247	9213	1.92	3.12	7 - 15	
25.0 #		360	459	169439	19.2	6778	8074	275323	10216	1.91	2.78	7 - 13	
28.0 #		399	508	184900	19.1	7396	8874	303304	11163	1.90	2.51	7 - 13	
32.0 #		450	573	204023	18.9	8161	9886	338901	12343	1.89	2.22	7 - 13	
36.0 #		498	635	221491	18.7	8860	10838	372530	13431	1.88	2.01	7 - 13	
40.0 #		545	695	237359	18.5	9494	11729	404180	14431	1.86	1.83	7 - 13	
45.0 #		602	767	255025	18.2	10201	12760	440942	15560	1.85	1.66	7 - 13	
50.0 #		656	836	270377	18.0	10815	13701	474569	16561	1.83	1.52	7 - 13	
550 x 550	16.0 *	263	335	157695	21.7	5734	6666	247855	8613	2.15	3.80	7 - 15	
	19.0 *	309	394	183044	21.5	6656	7787	290214	10004	2.13	3.23	7 - 15	
	22.0 *	355	452	207126	21.4	7532	8868	331264	11330	2.12	2.82	7 - 15	
	25.0 #	399	509	229968	21.3	8362	9909	370998	12593	2.11	2.50	7 - 13	
	28.0 #	443	564	251597	21.1	9149	10911	409411	13793	2.10	2.26	7 - 13	
	32.0 #	500	637	278592	20.9	10131	12187	458566	15299	2.09	2.00	7 - 13	
	36.0 #	555	707	303537	20.7	11038	13395	505351	16701	2.08	1.80	7 - 13	
	40.0 #	608	775	326492	20.5	11872	14536	549754	18003	2.06	1.64	7 - 13	
	45.0 #	673	857	352478	20.3	12817	15870	601886	19494	2.05	1.49	7 - 13	
	50.0 #	734	936	375563	20.0	13657	17103	650249	20839	2.03	1.36	7 - 13	
	55.0 #	794	1011	395860	19.8	14395	18236	694816	22043	2.01	1.26	7 - 13	
600 x 600	16.0 #	288	367	206801	23.7	6893	7992	323778	10351	2.35	3.47	7 - 13	
	19.0 #	339	432	240522	23.6	8017	9348	379597	12046	2.33	2.95	7 - 13	
	22.0 #	389	496	272719	23.4	9091	10661	433860	13668	2.32	2.57	7 - 13	
	25.0 #	439	559	303422	23.3	10114	11931	486561	15219	2.31	2.28	7 - 13	
	28.0 #	487	620	332658	23.2	11089	13158	537694	16702	2.30	2.05	7 - 13	
	32.0 #	550	701	369408	23.0	12314	14727	603425	18574	2.29	1.82	7 - 13	
	36.0 #	611	779	403671	22.8	13456	16222	666346	20330	2.28	1.64	7 - 13	
	40.0 #	671	855	435511	22.6	14517	17643	726443	21973	2.26	1.49	7 - 13	
	45.0 #	743	947	472005	22.3	15734	19317	797572	23875	2.25	1.35	7 - 12	
	50.0 #	813	1036	504944	22.1	16831	20879	864237	25612	2.23	1.23	7 - 12	
	55.0 #	880	1121	534453	21.8	17815	22331	926411	27191	2.21	1.14	7 - 12	
60.0 #	945	1203	560655	21.6	18688	23675	984066	28618	2.19	1.06	7 - 12		

* ERW process

SAW process (single or double longitudinal seam weld(s), slightly proud, see page 2)

Jumbo 355 EN 10210 S355J2H

Hot finished square hollow sections (continued)

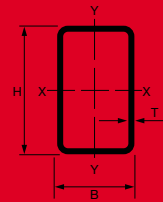


Size	Thickness	Mass	Sectional area	Moment of inertia	Radius of gyration	Elastic modulus	Plastic modulus	Torsional constants		Superficial area/ m	Approx length/ tonne	Length range
B x B mm	T mm	M kg/m	A cm ²	I cm ⁴	i cm	W _{el} cm ³	W _{pl} cm ³	I _t cm ⁴	C _t cm ³	A _s m ² /m	m/t	m
650 x 650	16.0 #	313	399	265169	25.8	8159	9437	413800	12248	2.55	3.19	7 - 13
	19.0 #	369	470	308923	25.6	9505	11052	485654	14277	2.53	2.71	7 - 13
	22.0 #	424	540	350873	25.5	10796	12620	555686	16225	2.52	2.36	7 - 13
	25.0 #	478	609	391049	25.3	12032	14141	623887	18096	2.51	2.09	7 - 13
	28.0 #	531	676	429482	25.2	13215	15615	690254	19890	2.50	1.88	7 - 13
	32.0 #	600	765	478071	25.0	14710	17508	775879	22168	2.49	1.67	7 - 13
	36.0 #	668	851	523691	24.8	16114	19319	858215	24317	2.48	1.50	7 - 13
	40.0 #	734	935	566414	24.6	17428	21050	937249	26342	2.46	1.36	7 - 13
	45.0 #	814	1037	615855	24.4	18949	23102	1031373	28704	2.45	1.23	7 - 12
	50.0 #	891	1136	661020	24.1	20339	25031	1120282	30883	2.43	1.12	7 - 12
55.0 #	966	1231	702048	23.9	21601	26839	1203946	32885	2.41	1.03	7 - 12	
60.0 #	1039	1323	739072	23.6	22741	28528	1282334	34718	2.39	0.963	7 - 12	
700 x 700	16.0 #	338	431	333598	27.8	9531	11002	519120	14306	2.75	2.95	7 - 13
	19.0 #	399	508	389198	27.7	11120	12899	609812	16698	2.73	2.51	7 - 13
	22.0 #	459	584	442687	27.5	12648	14744	698391	19002	2.72	2.18	7 - 13
	25.0 #	517	659	494100	27.4	14117	16538	784853	21222	2.71	1.93	7 - 13
	28.0 #	575	732	543470	27.2	15528	18281	869191	23359	2.70	1.74	7 - 13
	32.0 #	651	829	606180	27.0	17319	20528	978326	26082	2.69	1.54	7 - 13
	36.0 #	724	923	665398	26.9	19011	22686	1083657	28664	2.68	1.38	7 - 13
	40.0 #	797	1015	721203	26.7	20606	24757	1185170	31110	2.66	1.26	7 - 13
	45.0 #	885	1127	786278	26.4	22465	27224	1306665	33981	2.65	1.13	7 - 12
	50.0 #	970	1236	846292	26.2	24180	29557	1422135	36651	2.63	1.03	7 - 12
55.0 #	1053	1341	901394	25.9	25754	31759	1531546	39126	2.61	0.950	7 - 12	
60.0 #	1133	1443	951730	25.7	27192	33832	1634867	41413	2.59	0.883	7 - 12	
750 x 750	16.0 #	364	463	412889	29.9	11010	12687	640939	16524	2.95	2.75	7 - 13
	19.0 #	429	546	482294	29.7	12861	14887	753494	19309	2.93	2.33	7 - 13
	22.0 #	493	628	549261	29.6	14647	17033	863627	21999	2.92	2.03	7 - 13
	25.0 #	556	709	613824	29.4	16369	19123	971332	24598	2.91	1.80	7 - 13
	28.0 #	619	788	676022	29.3	18027	21158	1076603	27107	2.90	1.62	7 - 13
	32.0 #	701	893	755335	29.1	20142	23789	1213166	30315	2.89	1.43	7 - 13
	36.0 #	781	995	830591	28.9	22149	26323	1345373	33370	2.88	1.28	7 - 13
	40.0 #	859	1095	901876	28.7	24050	28764	1473207	36277	2.86	1.16	7 - 13
	45.0 #	955	1217	985524	28.5	26281	31683	1626822	39706	2.85	1.05	7 - 12
	50.0 #	1048	1336	1063259	28.2	28354	34459	1773543	42916	2.83	0.954	7 - 12
55.0 #	1139	1451	1135241	28.0	30273	37092	1913335	45913	2.81	0.878	7 - 12	
60.0 #	1227	1563	1201629	27.7	32043	39585	2046163	48704	2.79	0.815	7 - 12	

SAW process (single or double longitudinal seam weld(s), slightly proud, see page 2)

Jumbo 355 EN 10210 S355J2H

Hot finished rectangular hollow sections



Jumbo 355 Rectangles

Size	Thickness	Mass	Sectional area	Moment of inertia		Radius of gyration		Elastic modulus		Plastic modulus		Torsional constants		Superficial area/ m	Approx length/ tonne	Length range
				I_{xx}	I_{yy}	i_{xx}	i_{yy}	W_{elxx}	W_{elyy}	W_{plxx}	W_{plyy}	I_t	C_t			
H x B mm	T mm	M kg/m	A cm ²	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	A_s m ² /m	m/t	m
550 x 350	12.0 #	162	207	87142	43539	20.5	14.5	3169	2488	3819	2804	92039	4128	1.76	6.17	7 - 12
	16.0 #	213	271	112056	55749	20.3	14.3	4075	3186	4958	3635	119693	5299	1.75	4.70	7 - 12
	19.0 #	250	318	129448	64197	20.2	14.2	4707	3668	5769	4224	139434	6115	1.73	4.00	7 - 12
	22.0 #	286	364	145758	72058	20.0	14.1	5300	4118	6544	4786	158315	6880	1.72	3.50	7 - 12
	25.0 #	321	409	161010	79352	19.8	13.9	5855	4534	7284	5320	176335	7595	1.71	3.12	7 - 12
	28.0 #	355	452	175228	86095	19.7	13.8	6372	4920	7988	5826	193491	8263	1.70	2.82	7 - 12
600 x 400	12.0 #	181	231	117924	63395	22.6	16.6	3931	3170	4703	3569	129844	5210	1.96	5.53	7 - 12
	16.0 #	238	303	152219	81553	22.4	16.4	5074	4078	6123	4640	169376	6716	1.95	4.20	7 - 12
	19.0 #	280	356	176363	94248	22.2	16.3	5879	4712	7141	5406	197788	7776	1.93	3.58	7 - 12
	22.0 #	320	408	199185	106177	22.1	16.1	6640	5309	8118	6140	225136	8777	1.92	3.12	7 - 12
	25.0 #	360	459	220713	117360	21.9	16.0	7357	5868	9056	6842	251417	9722	1.91	2.78	7 - 12
	28.0 #	399	508	240973	127817	21.8	15.9	8032	6391	9954	7513	276626	10611	1.90	2.51	7 - 12
	32.0 #	450	573	266059	140667	21.6	15.7	8869	7033	11092	8360	308568	11715	1.89	2.22	7 - 12
	36.0 #	498	635	289000	152312	21.3	15.5	9633	7616	12161	9154	338591	12728	1.88	2.01	7 - 12
	40.0 #	545	695	309857	162800	21.1	15.3	10329	8140	13163	9895	366688	13653	1.86	1.83	7 - 12
650 x 450	16.0 #	263	335	200842	114218	24.5	18.5	6180	5076	7408	5765	230766	8294	2.15	3.80	7 - 12
	19.0 #	309	394	233250	132373	24.3	18.3	7177	5883	8654	6730	269978	9627	2.13	3.23	7 - 12
	22.0 #	355	452	264073	149556	24.2	18.2	8125	6647	9857	7658	307899	10894	2.12	2.82	7 - 12
	25.0 #	399	509	293340	165791	24.0	18.0	9026	7369	11016	8552	344527	12098	2.11	2.50	7 - 12
	28.0 #	443	564	321082	181103	23.9	17.9	9879	8049	12131	9410	379857	13239	2.10	2.26	7 - 12
	32.0 #	500	637	355746	200120	23.6	17.7	10946	8894	13552	10501	424939	14669	2.09	2.00	7 - 12
	36.0 #	555	707	387817	217589	23.4	17.5	11933	9671	14898	11531	467696	15995	2.08	1.80	7 - 12
	40.0 #	608	775	417361	233564	23.2	17.4	12842	10381	16170	12502	508121	17222	2.06	1.64	7 - 12
750 x 500	16.0 #	301	383	305121	163919	28.2	20.7	8137	6557	9751	7397	336672	10781	2.45	3.32	7 - 13
	19.0 #	354	451	355355	190515	28.1	20.5	9476	7621	11415	8653	394581	12546	2.43	2.82	7 - 13
	22.0 #	407	518	403471	215870	27.9	20.4	10759	8635	13029	9868	450834	14236	2.42	2.46	7 - 13
	25.0 #	458	584	449501	240012	27.7	20.3	11987	9600	14591	11043	505426	15851	2.41	2.18	7 - 13
	28.0 #	509	648	493481	262966	27.6	20.1	13160	10519	16104	12178	558354	17395	2.40	1.96	7 - 13
	32.0 #	575	733	548989	291769	27.4	20.0	14640	11671	18045	13630	626329	19343	2.39	1.74	7 - 13
	36.0 #	640	815	600989	318568	27.2	19.8	16026	12743	19897	15014	691327	21171	2.38	1.56	7 - 13
	40.0 #	702	895	649559	343425	26.9	19.6	17322	13737	21664	16329	753339	22881	2.36	1.42	7 - 13

SAW process (single or double longitudinal seam weld(s), slightly proud, see page 2)

■ Non-regular production. Other sizes available on request