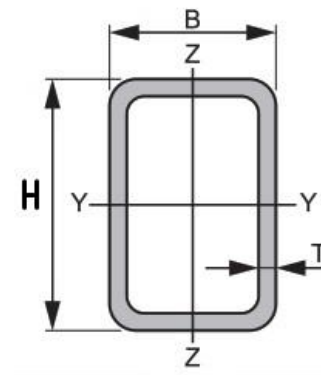


Steel structure calculation table

Rectangular tubes



Specified outside sizes	Specified thickness	Mass per unit length	Cross-sectional area	Second moment of inertia	Radius of gyration	Elastic section modulus	Plastic section module	Torsional inertia constant	Torsional modulus constant	Superficial area per meter length	Nominal length per ton
H x B	T	M	A	I	i	W_{el}	W_{pl}	I_t	C_t	A_s	
mm	mm	kg/m	cm²	cm⁴	cm	cm³	cm³	cm⁴	cm³	m²/m	m/t
200 x 120	4.0	19.1	24.5	1342	611	7.39	4.99	134	102	164	116
200 x 120	5.0	23.7	30.4	1628	738	7.32	4.93	163	123	201	142
200 x 120	6.0	28.1	36.0	1894	855	7.25	4.87	189	142	237	167
200 x 120	8.0	36.2	46.4	2252	1012	6.96	4.67	225	169	301	213
200 x 120	10.0	44.1	56.6	2562	1148	6.73	4.50	256	191	363	257
200 x 160	5.0	26.8	34.4	2009	1426	7.65	6.44	201	178	240	207
200 x 160	6.0	31.8	40.8	2346	1663	7.58	6.38	235	208	284	244
200 x 160	8.0	41.2	52.8	2843	2011	7.33	6.17	284	251	363	312
200 x 160	10.0	50.4	64.6	3284	2319	7.13	5.99	328	290	439	378
200 x 160	12.0	58.1	74.5	3323	2366	6.68	5.64	332	296	503	435
250 x 150	5.0	29.9	38.4	3277	1493	9.24	6.24	262	199	320	226
250 x 150	6.0	35.6	45.6	3840	1743	9.17	6.18	307	232	379	267
250 x 150	8.0	46.2	59.2	4711	2127	8.92	5.99	377	284	486	343
250 x 150	10.0	56.6	72.6	5499	2471	8.71	5.84	440	329	589	416
250 x 150	12.0	65.6	84.1	5681	2584	8.22	5.54	454	345	676	481
300 x 100	5.0	29.9	38.4	4033	713	10.25	4.31	269	143	349	160
300 x 100	6.0	35.6	45.6	4721	827	10.17	4.26	315	165	412	189
300 x 100	8.0	46.2	59.2	5761	995	9.86	4.10	384	199	527	242
300 x 100	10.0	56.6	72.6	6699	1143	9.61	3.97	447	229	638	292
300 x 100	12.0	65.6	84.1	6812	1221	9.00	3.81	454	244	728	339
300 x 200	6.0	45.0	57.6	7315	3927	11.27	8.25	488	393	589	447
300 x 200	8.0	58.7	75.2	9172	4908	11.04	8.08	611	491	761	578
300 x 200	10.0	72.2	92.6	10905	5813	10.85	7.92	727	581	928	705
300 x 200	12.0	84.3	108.1	11792	6293	10.45	7.63	786	629	1074	819
300 x 200	14.0	96.5	124	12790	6837	10.17	7.43	853	684	1222	933
350 x 250	6.0	54.3	69.6	12392	7413	13.34	10.32	708	593	843	672
350 x 250	8.0	71.2	91.2	15742	9397	13.14	10.15	900	752	1095	873
350 x 250	10.0	87.8	112.6	18918	11262	12.96	10.00	1081	901	1342	1069
350 x 250	12.0	103.0	132	20982	12482	12.60	9.72	1199	999	1562	1247
350 x 250	14.0	118	152	23164	13767	12.36	9.52	1324	1101	1784	1426
400 x 200	6.0	54.3	69.6	14714	5056	14.54	8.52	736	506	907	563
400 x 200	8.0	71.2	91.2	18674	6383	14.31	8.36	934	638	1177	732
400 x 200	10.0	87.8	112.6	22432	7619	14.12	8.23	1122	762	1441	895
400 x 200	12.0	103.0	132	24815	8417	13.71	7.98	1241	842	1674	1045
400 x 200	14.0	118	152	27352	9263	13.43	7.81	1368	926	1911	1194
400 x 200	16.0	133	171	29399	9976	13.12	7.64	1470	998	2136	1337