



Designation	Mass per metre	Depth of Section h	Width of Section b	Thickness Webs	Thickness Flange t	Root Radius r	Depth between Fillets d	Ratios for Local Buckling		Second Moment of Area		Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H	Torsional Constant J	Area of Section
								Flange b/2t	Web d/s	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y					
										cm <sup>4</sup>	cm <sup>4</sup>	cm	cm	cm <sup>4</sup>	cm <sup>4</sup>	cm <sup>4</sup>	cm <sup>4</sup>					
356 x 406 x 634	633.9	474.6	424.0	47.6	77.0	15.2	290.2	2.75	6.10	274800	98130	18.40	11.00	11580	4629.0	14240	7108.0	0.843	5.46	38.8000	13720.00	808.0
356 x 406 x 551	551.0	455.6	418.5	42.1	67.5	15.2	290.2	3.10	6.89	226900	82670	18.00	10.90	9962	3951.0	12080	6058.0	0.841	6.05	31.1000	9240.00	702.0
356 x 406 x 467	467.0	436.6	412.2	35.8	58.0	15.2	290.2	3.55	8.11	183000	67830	17.50	10.70	8383	3291.0	10000	5034.0	0.839	6.86	24.3000	5809.00	595.0
356 x 406 x 393	393.0	419.0	407.0	30.6	49.2	15.2	290.2	4.14	9.48	146600	55370	17.10	10.50	6998	2721.0	8222	4154.0	0.837	7.86	18.9000	3545.00	501.0
356 x 406 x 340	339.9	406.4	403.0	26.6	42.9	15.2	290.2	4.70	10.90	122500	46850	16.80	10.40	6031	2325.0	6999	3544.0	0.836	8.85	15.5000	2343.00	433.0
356 x 406 x 287	287.1	393.6	399.0	22.6	36.5	15.2	290.2	5.47	12.80	99880	38680	16.50	10.30	5075	1939.0	5812	2949.0	0.835	10.20	12.3000	1441.00	366.0
356 x 406 x 235	235.1	381.0	394.8	18.4	30.2	15.2	290.2	6.54	15.80	79080	30990	16.30	10.20	4151	1570.0	4687	2383.0	0.834	12.10	9.5400	812.00	299.0
356 x 368 x 202	201.9	374.6	374.7	16.5	27.0	15.2	290.2	6.94	17.60	66260	23690	16.10	9.60	3538	1264.0	3972	1920.0	0.844	13.40	7.1600	558.00	257.0
356 x 368 x 177	177.0	368.2	372.6	14.4	23.8	15.2	290.2	7.83	20.20	57120	20530	15.90	9.54	3103	1102.0	3455	1671.0	0.844	15.00	6.0900	381.00	226.0
356 x 368 x 153	152.9	362.0	370.5	12.3	20.7	15.2	290.2	8.95	23.60	48590	17550	15.80	9.49	2684	948.0	2965	1435.0	0.844	17.00	5.1100	251.00	195.0
356 x 368 x 129	129.0	355.6	368.6	10.4	17.5	15.2	290.2	10.50	27.90	40250	14610	15.60	9.43	2264	793.0	2479	1199.0	0.844	19.90	4.1800	153.00	164.0
305 x 305 x 283	282.9	365.3	322.2	26.8	44.1	15.2	246.7	3.65	9.21	78870	24630	14.80	8.27	4318	1529.0	5105	2342.0	0.855	7.65	6.3500	2034.00	360.0
305 x 305 x 240	240.0	352.5	318.4	23.0	37.7	15.2	246.7	4.22	10.70	64200	20310	14.50	8.15	3643	1276.0	4247	1951.0	0.854	8.74	5.0300	1271.00	306.0
305 x 305 x 198	198.1	339.9	314.5	19.1	31.4	15.2	246.7	5.01	12.90	50900	16300	14.20	8.04	2995	1037.0	3440	1581.0	0.854	10.20	3.8800	734.00	252.0
305 x 305 x 158	158.1	327.1	311.2	15.8	25.0	15.2	246.7	6.22	15.60	38750	12570	13.90	7.90	2369	808.0	2680	1230.0	0.851	12.50	2.8700	378.00	201.0
305 x 305 x 137	136.9	320.5	309.2	13.8	21.7	15.2	246.7	7.12	17.90	32810	10700	13.70	7.83	2048	692.0	2297	1053.0	0.851	14.20	2.3900	249.00	174.0
305 x 305 x 118	117.9	314.5	307.4	12.0	18.7	15.2	246.7	8.22	20.60	27670	9059	13.60	7.77	1760	589.0	1958	895.0	0.850	16.20	1.9800	161.00	150.0
305 x 305 x 97	96.9	307.9	305.3	9.9	15.4	15.2	246.7	9.91	24.90	22250	7308	13.40	7.69	1445	479.0	1592	726.0	0.850	19.30	1.5600	91.20	123.0
254 x 254 x 167	167.1	289.1	265.2	19.2	31.7	12.7	200.3	4.18	10.40	30000	9870	11.90	6.81	2075	744.0	2424	1137.0	0.851	8.49	1.6300	626.00	213.0
254 x 254 x 132	132.0	276.3	261.3	15.3	25.3	12.7	200.3	5.16	13.10	22530	7531	11.60	6.69	1631	576.0	1869	878.0	0.850	10.30	1.1900	319.00	168.0
254 x 254 x 107	107.1	266.7	258.8	12.8	20.5	12.7	200.3	6.31	15.60	17510	5928	11.30	6.59	1313	458.0	1484	697.0	0.848	12.40	0.8980	172.00	136.0
254 x 254 x 89	88.9	260.3	256.3	10.3	17.3	12.7	200.3	7.41	19.40	14270	4857	11.20	6.55	1096	379.0	1224	575.0	0.850	14.50	0.7170	102.00	113.0
254 x 254 x 73	73.1	254.1	254.6	8.6	14.2	12.7	200.3	8.96	23.30	11410	3908	11.10	6.48	898	307.0	992	465.0	0.849	17.30	0.5620	57.60	93.1
203 x 203 x 86	86.1	222.2	209.1	12.7	20.5	10.2	160.8	5.10	12.70	9449	3127	9.28	5.34	850	299.0	977	456.0	0.850	10.20	0.3180	137.00	110.0
203 x 203 x 71	71.0	215.8	206.4	10.0	17.3	10.2	160.8	5.97	16.10	7618	2537	9.18	5.30	706	246.0	799	374.0	0.853	11.90	0.2500	80.20	90.4
203 x 203 x 60	60.0	209.6	205.8	9.4	14.2	10.2	160.8	7.25	17.10	6125	2065	8.96	5.20	584	201.0	656	305.0	0.846	14.10	0.1970	47.20	76.4
203 x 203 x 52	52.0	206.2	204.3	7.9	12.5	10.2	160.8	8.17	20.40	5259	1778	8.91	5.18	510	174.0	567	264.0	0.848	15.80	0.1670	31.80	66.3
203 x 203 x 46	46.1	203.2	203.6	7.2	11.0	10.2	160.8	9.25	22.30	4568	1548	8.82	5.13	450	152.0	497	231.0	0.847	17.70	0.1430	22.20	58.7
152 x 152 x 37	37.0	161.8	154.4	8.0	11.5	7.6	123.6	6.71	15.40	2210	706	6.85	3.87	273	91.5	309	140.0	0.848	13.30	0.0399	19.20	47.1
152 x 152 x 30	30.0	157.6	152.9	6.5	9.4	7.6	123.6	8.13	19.00	1748	560	6.76	3.83	222	73.3	248	112.0	0.849	16.00	0.0308	10.50	38.3
152 x 152 x 23	23.0	152.4	152.2	5.8	6.8	7.6	123.6	11.20	21.30	1250	400	6.54	3.70	164	52.6	182	80.2	0.840	20.70	0.0212	4.63	29.2