



Designation	Mass per metre kg/m	Depth of Section h mm	Width of Section b mm	Thickness		Distance of Cy cm	Radius r ₁ mm	Depth between Fillets d mm	Ratios for Local Buckling		Second Moment of Area		Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ²	Torsional Constant J cm ⁴	Area of Section A cm ²
				Web s mm	Flange t mm				Flange b/t	Web d/s	Axis x-x cm ²	Axis y-y cm ²	Axis x-x cm	Axis y-y cm	Axis x-x cm ³	Axis y-y cm ³	Axis x-x cm ²	Axis y-y cm ²					
				mm	mm				mm	mm	cm	cm	cm	cm	cm ³	cm ³	cm ²	cm ²					
430 x 100 x 64	64.4	430	100	11.0	19.0	2.62	15	362	5.26	32.9	21940	722.0	16.30	2.97	1020.0	97.90	1222.0	176.0	0.917	22.5	0.21900	63.00	82.1
380 x 100 x 54	54.0	380	100	9.5	17.5	2.79	15	315	5.71	33.2	15030	643.0	14.80	3.06	791.0	89.20	933.0	161.0	0.932	21.2	0.15000	45.70	68.7
300 x 100 x 46	45.5	300	100	9.0	16.5	3.05	15	237	6.06	26.3	8229	568.0	11.90	3.13	549.0	81.70	641.0	148.0	0.944	17.0	0.08130	36.80	58.0
300 x 90 x 41	41.4	300	90	9.0	15.5	2.60	12	245	5.81	27.2	7218	404.0	11.70	2.77	481.0	63.10	568.0	114.0	0.934	18.4	0.05810	28.80	52.7
260 x 90 x 35	34.8	260	90	8.0	14.0	2.74	12	208	6.43	26.0	4728	353.0	10.30	2.82	364.0	56.30	425.0	102.0	0.942	17.2	0.03790	20.60	44.4
260 x 75 x 28	27.6	260	75	7.0	12.0	2.10	12	212	6.25	30.3	3619	185.0	10.10	2.30	278.0	34.40	328.0	62.0	0.932	20.5	0.02030	11.70	35.1
230 x 90 x 32	32.2	230	90	7.5	14.0	2.92	12	178	6.43	23.7	3518	334.0	9.27	2.86	306.0	55.00	355.0	98.9	0.950	15.1	0.02790	19.30	41.0
230 x 75 x 26	25.7	230	75	6.5	12.5	2.30	12	181	6.00	27.8	2748	181.0	9.17	2.35	239.0	34.80	278.0	63.2	0.947	17.3	0.01530	11.80	32.7
200 x 90 x 30	29.7	200	90	7.0	14.0	3.12	12	148	6.43	21.1	2523	314.0	8.16	2.88	252.0	53.40	291.0	94.5	0.954	12.9	0.01970	18.30	37.9
200 x 75 x 23	23.4	200	75	6.0	12.5	2.48	12	151	6.00	25.2	1963	170.0	8.11	2.39	196.0	33.80	227.0	60.6	0.956	14.8	0.01070	11.10	29.9
180 x 90 x 26	26.1	180	90	6.5	12.5	3.17	12	131	7.20	20.2	1817	277.0	7.40	2.89	202.0	47.40	232.0	83.5	0.949	12.8	0.01410	13.30	33.2
180 x 75 x 20	20.3	180	75	6.0	10.5	2.41	12	135	7.14	22.5	1370	146.0	7.27	2.38	152.0	28.80	176.0	51.8	0.946	15.3	0.00754	7.34	25.9
150 x 90 x 24	23.9	150	90	6.5	12.0	3.30	12	102	7.50	15.7	1162	253.0	6.18	2.89	155.0	44.40	179.0	76.9	0.936	10.8	0.00890	11.80	30.4
150 x 75 x 18	17.9	150	75	5.5	10.0	2.58	12	106	7.50	19.3	861	131.0	6.15	2.40	115.0	26.60	132.0	47.2	0.946	13.1	0.00467	6.10	22.8
125 x 65 x 15	14.8	125	65	5.5	9.5	2.25	12	82	6.84	14.9	483	80.0	5.07	2.06	77.3	18.80	89.9	33.2	0.942	11.1	0.00194	4.72	18.8
100 x 50 x 10	10.2	100	50	5.0	8.5	1.73	9	65	5.88	13.0	208	32.3	4.00	1.58	41.5	9.89	48.9	17.5	0.942	10.0	0.000491	2.53	13.0