



Dimensions and Sectional Properties

Nominal Size (mm)	Standard Sectional Dimensions (mm)					Sectional Area (cm ²)	Unit Weight (kg/m)	Center of Gravity (cm)		Moment of Inertia (mm ⁴)				Radius of Gyration (cm)				tan α	Modulus of Section (cm ³)	
	A X B	t ₁	t ₂	r ₁	r ₂			Cx	Cy	I _x	I _y	I _u	I _v	i _x	i _y	i _u	i _v		S _x	S _y
200 X 90	200 X 90	9	14	14	7	29.66	23.3	6.36	2.16	1,210	200	1,290	125	6.39	2.60	6.58	2.05	0.263	88.7	29.2
250 X 90	250 X 90	10	15	17	8.5	37.47	29.4	8.61	1.92	2,440	223	2,520	147	8.08	2.44	8.20	1.98	0.182	149	31.5
	250 X 90	12	16	17	8.5	42.95	33.7	8.99	1.89	2,790	238	2,870	160	8.07	2.35	8.18	1.93	0.173	174	33.5
300 X 90	300 X 90	11	16	19	9.5	46.22	36.3	11.0	1.76	4,370	245	4,440	168	9.72	2.30	9.80	1.90	0.136	229	33.8
	300 X 90	13	17	19	9.5	52.67	41.3	11.3	1.75	4,940	259	5,020	181	9.68	2.22	9.76	1.85	0.128	264	35.8
350 X 100	350 X 100	12	17	22	11	57.74	45.3	13.0	1.87	7,440	362	7,550	251	11.3	2.50	11.4	2.08	0.124	338	44.5
400 X 100	400 X 100	13	18	24	12	68.59	53.8	15.4	1.77	11,500	388	11,600	277	12.9	2.38	13.0	2.01	0.0996	467	47.1
450 X 125	*450 X 125	11.5	18	24	12	73.11	57.4	16.2	2.29	15,700	768	16,000	525	14.7	3.24	14.8	2.68	0.126	547	75.2