

Angles	Sectional Weight	Thickness	Root radius		Distance of Centre of Gravity		Area of section	Moment of Inertia				Sectional Modulus		Radius of gyration				Remarks
	w	t	R1	R2	Cx	Cy	A	X Axis	Y Axis	U Axis	V Axis	X Axis	Y Axis	X Axis	Y Axis	U Axis	V Axis	
	Kg/m	mm	mm	mm	cm	cm	cm ²	I _{xx}	I _{yy}	I _{uu}	I _{vv}	Z _{xx}	Z _{yy}	r _{xx}	r _{yy}	r _{uu}	r _{vv}	
EQUAL LEG ANGLES																		
50 x 50 x 5	3.8	5.0	6		1.41	1.41	4.79	11	11	17.6	4.5	3.1	3.1	1.52	1.52	1.92	0.97	
x 6	4.5	6.0	7		1.45	1.45	5.68	12.9	12.9	20.6	5.3	3.6	3.6	1.51	1.51	1.9	0.96	
x 8	5.8	8.0	7		1.49	1.49	7.41	16.3	16.3	25.7	6.9	4.7	4.7	1.48	1.48	1.86	0.96	
65 x 65 x 5	4.9	5.0	6.5		1.77	1.77	6.25	24.7	24.7	39.4	9.9	5.2	5.2	1.99	1.99	2.51	1.26	
x 6	5.8	6.0	6.5		1.81	1.81	7.44	29.1	29.1	46.5	11.7	6.2	6.2	1.98	1.98	2.5	1.26	
x 8	7.7	8.0	6.5		1.89	1.89	9.76	37.4	37.4	59.5	15.3	8.1	8.1	1.96	1.96	2.47	1.25	
x 10	9.4	10.0	6.5		1.97	1.97	12.0	45.0	45.0	71.3	18.8	9.9	9.9	1.94	1.94	2.44	1.25	
			7															
75 x 75 x 5	5.7	5.0	7		2.02	2.02	7.27	38.7	38.7	61.9	15.5	7.1	7.1	2.31	2.31	2.92	1.46	
x 6	6.8	6.0	7		2.06	2.06	8.66	45.7	45.7	73.1	18.4	8.4	8.4	2.3	2.3	2.91	1.46	
x 8	8.9	8.0	7		2.14	2.14	11.4	59.0	59.0	94.1	24	11	11	2.28	2.28	2.88	1.45	
x 10	11	10.0	7		2.22	2.22	14	71.4	71.4	113	29.4	13.5	13.5	2.26	2.26	2.84	1.45	
			8.5															
80 x 80 x 6	7.3	6.0	8.5		2.18	2.18	9.29	56.0	56.0	89.6	22.5	9.6	9.6	2.46	2.46	3.11	1.56	
x 8	9.6	8.0	8.5		2.27	2.27	12.2	72.5	72.5	116.0	49.4	12.6	12.6	2.44	2.44	3.08	1.55	
x 10	11.8	10.0	8.5		2.34	2.34	15.0	87.7	87.7	139.0	36.0	15.5	15.5	2.41	2.41	3.04	1.55	
90 x 90 x 6	8.2	6.0	8.5		2.42	2.42	10.5	80.1	80.1	128	32	12.2	12.2	2.77	2.77	3.5	1.75	
x 8	10.8	8.0	8.5		2.51	2.51	13.8	104	104	166	42	16	16	2.75	2.75	3.47	1.75	
x 10	13.4	10.0	8.5		2.59	2.59	17	127	127	202	51.6	19.8	19.8	2.73	2.73	3.44	1.74	
x 12	15.8	12.0	8.5		2.66	2.66	20.2	148	148	235	60.9	23.3	23.3	2.71	2.71	3.41	1.74	
			8.5															
100x100 x 6	9.2	6.0	8.5		2.67	2.67	11.7	111	111	178	44.5	15.2	15.2	3.09	3.09	3.91	1.95	
x 7	10.7	7.0	12.0		2.69	2.69	13.7	128	128	203	53.1	17.5	17.5	3.06	3.06	3.86	1.97	
x 8	12.1	8.0	8.5		2.76	2.76	15.4	145	145	232	58.4	20.0	20.0	3.07	3.07	3.88	1.95	
x 10	14.9	10.0	8.5		2.84	2.84	19.0	177	177	282	71.8	24.7	24.7	3.05	3.05	3.85	1.94	
x 12	17.7	12.0	8.5		2.92	2.92	22.6	207	207	329	84.7	29.2	29.2	3.03	3.03	3.82	1.94	
110x110 x 8	13.4	8.0	10.0		3.00	3.00	17.1	197	197	313	81.0	24.6	24.6	3.40	3.40	4.28	2.18	
x 10	16.6	10.0	10.0		3.09	3.09	21.1	240	240	381	98.9	30.4	30.4	3.37	3.37	4.25	2.16	
x 12	19.7	12.0	10.0		3.17	3.17	25.1	281	281	446	116	35.9	35.9	3.35	3.35	4.22	2.15	
120x120 x 8	14.7	8.0	13.0		3.23	3.23	18.7	255	255	405	105	29.1	29.1	3.69	3.69	4.65	2.37	
x 10	18.2	10.0	13.0		3.31	3.31	23.2	313	313	497	129	36.0	36.0	3.67	3.67	4.63	2.36	
130x130 x 8	15.9	8.0	10.0		3.50	3.50	20.3	331	331	526	136	34.9	34.9	4.04	4.04	5.10	2.59	
x 10	19.7	10.0	10.0		3.59	3.59	25.1	405	405	640	166	43.1	43.1	4.02	4.02	5.07	2.57	
x 12	23.5	12.0	10.0		3.67	3.67	29.9	476	476	757	196	51.0	51.0	3.99	3.99	5.03	2.56	
x 16	30.7	16.0	10.0		3.82	3.82	39.2	609	609	966	250	66.3	66.3	3.94	3.94	4.97	2.54	
150x150 x 10	22.9	10.0	12.0		4.08	4.08	29.2	634	634	1010	260	58.0	58.0	4.66	4.66	5.87	2.98	
x 12	27.3	12.0	12.0		4.16	4.16	34.8	746	746	1190	306	68.8	68.8	4.63	4.63	5.84	2.97	
x 14	NS	NS	12.0		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
x 15	33.8	15.0	12.0		4.25	4.25	43.0	898	898	1430	370	83.5	83.5	4.57	4.57	5.76	2.93	
x 16	35.8	16.0	12.0		4.31	4.31	45.6	959	959	1520	395	89.7	89.7	4.58	4.58	5.77	2.94	
x 18	40.1	18.0	12.0		4.37	4.37	51.0	1050	1050	1670	335	98.7	98.7	4.54	4.54	5.71	2.92	
x 20	44.1	20	12.0		4.46	4.46	56.2	1160	1160	1830	481	110	110	4.53	4.53	5.71	2.93	
200x200 x 12	36.9	12.0	15.0		5.39	5.39	46.9	1830	1830	2910	747	125	125	6.24	6.24	7.87	3.99	
x 16	48.5	16.0	15.0		5.56	5.56	61.8	2370	2370	3760	968	164	164	6.19	6.19	7.80	3.96	
x 18	54.3	18.0	18.0		5.60	5.60	69.1	2600	2600	4150	1050	181	181	6.15	6.15	7.75	3.94	
x 20	60.0	20.0	15.0		5.71	5.71	76.4	2880	2880	4570	1180	201	201	6.14	6.14	7.73	3.93	
x 24	71.7	24.0	18.0		5.84	5.84	90.6	3330	3330	5280	1380	235	235	6.06	6.06	7.64	3.90	
x 25	73.9	25.0	15.0		5.90	5.90	94.1	3470	3470	5500	1440	246	246	6.07	6.07	7.61	3.91	
250x250 x 25	93.6	25	20		7.12	7.24	119	6975	7697	11086	2864	390	390	7.65	7.65	9.64	4.90	
x 28	104	28	18		7.24	7.24	133	7697	7697	12226	3169	433	433	7.62	7.62	9.61	4.89	
x 32	118	32	20		7.38	7.24	150	8536	7697	13540	3538	484	484	7.56	7.62	9.51	4.88	
x 35	128	28	18		7.50	7.24	163	9264	7697	14666	3862	529	529	7.54	7.62	9.48	4.87	

