



Equal Angles

Designation	M kg/m	A (cm ²)	Dimensions			Position of Axis			Section Properties								
			b (mm)	t (mm)	R (mm)	C _x =C _y (cm)	C _u (cm)	C _v (cm)	Axis x-x & y-y			Axis u-u		Axes v-v			
									I _x =I _y (cm ⁴)	r _x =r _y (cm)	Z _x =Z _y (cm ³)	I _u (cm ⁴)	r _u (cm)	I _v (cm ⁴)	r _v (cm)	Z _v (cm ³)	
20X20X3	0.882	1.12	20	3	3.5	0.598	1.41	0.846	0.392	0.59	0.279	0.618	0.74	0.165	0.38	0.195	
20X20X4	1.14	1.46	20	4	4	0.635	1.41	0.899	0.49	0.58	0.36	0.77	0.72	0.21	0.38	0.23	
25X25X3	1.12	1.42	25	3	3.5	0.723	1.77	1.02	0.803	0.751	0.452	1.27	0.95	0.334	0.48	0.326	
25X25X4	1.45	1.85	25	4	3.5	0.762	1.77	1.08	1.02	0.741	0.586	1.61	0.93	0.43	0.48	0.399	
25X25X5	1.76	2.27	25	5	4	0.798	1.77	1.13	1.2	0.73	0.71	1.89	0.91	0.52	0.48	0.46	
30X30X3	1.36	1.74	30	3	5	0.835	2.12	1.18	1.4	0.899	0.649	2.22	1.13	0.585	0.58	0.496	
30X30X4	1.78	2.27	30	4	5	0.878	2.12	1.24	1.8	0.892	0.85	2.85	1.12	0.754	0.58	0.607	
30X30X5	2.18	2.78	30	5	5	0.918	2.12	1.3	2.16	0.88	1.04	3.41	1.11	0.92	0.57	0.71	
35X35X3	1.6	2.04	35	3	5	0.96	2.47	1.36	2.29	1.06	0.9	3.63	1.34	0.95	0.68	0.7	
35X35X4	2.09	2.67	35	4	5	1	2.47	1.42	2.95	1.05	1.18	4.68	1.32	1.23	0.68	0.865	
35X35X5	2.57	3.28	35	5	5	1.04	2.47	1.48	3.56	1.04	1.45	5.64	1.31	1.49	0.67	1.01	
40X40X3	1.84	2.35	40	3	6	1.07	2.83	1.52	3.44	1.21	1.18	5.46	1.52	1.43	0.78	0.946	
40X40X4	2.42	3.08	40	4	6	1.12	2.83	1.58	4.47	1.21	1.55	7.09	1.52	1.86	0.78	1.17	
40X40X5	2.97	3.79	40	5	6	1.16	2.83	1.64	5.43	1.2	1.91	8.6	1.51	2.26	0.77	1.38	
40X40X6	3.52	4.48	40	6	6	1.2	2.83	1.7	6.31	1.19	2.26	9.98	1.49	2.65	0.77	1.56	
45X45X3	2.09	2.66	45	3	7	1.18	3.18	1.67	4.93	1.36	1.48	7.79	1.71	2.06	0.88	1.23	
45X45X4	2.74	3.49	45	4	7	1.23	3.18	1.75	6.43	1.36	1.97	10.2	1.71	2.67	0.88	1.53	
45X45X4.5	3.06	3.9	45	4.5	7	1.25	3.18	1.78	7.14	1.35	2.2	11.4	1.71	2.94	0.87	1.65	
45X45X5	3.38	4.3	45	5	7	1.28	3.18	1.81	7.84	1.35	2.43	12.4	1.7	3.26	0.87	1.8	
45X45X6	4	5.09	45	6	7	1.32	3.18	1.87	9.16	1.34	2.88	14.5	1.69	3.82	0.87	2.05	
50X50X3	2.33	2.96	50	3	7	1.31	3.54	1.85	6.86	1.52	1.86	10.8	1.91	2.87	0.98	1.55	
50X50X4	3.06	3.89	50	4	7	1.36	3.54	1.92	8.97	1.52	2.46	14.2	1.91	3.73	0.98	1.94	
50X50X5	3.77	4.8	50	5	7	1.4	3.54	1.99	11	1.51	3.05	17.4	1.9	4.55	0.97	2.29	
50X50X6	4.47	5.69	50	6	7	1.45	3.54	2.04	12.8	1.5	3.61	20.3	1.89	5.34	0.97	2.61	
50X50X7	5.15	6.56	50	7	7	1.49	3.54	2.1	14.6	1.49	4.16	23.1	1.88	6.11	0.96	2.91	

50X50X8	5.82	7.41	50	8	7	1.52	3.54	2.16	16.3	1.48	4.68	25.7	1.86	6.87	0.96	3.19
55X55X4	3.38	4.31	55	4	8	1.47	3.89	2.09	12	1.67	2.98	19	2.1	5	1.08	2.4
55X55X5	4.18	5.32	55	5	8	1.52	3.89	2.15	14.7	1.66	3.7	23.3	2.09	6.11	1.07	2.84
55X55X6	4.95	6.31	55	6	8	1.56	3.89	2.21	17.3	1.66	4.39	27.4	2.08	7.24	1.07	3.28
55X55X8	6.46	8.23	55	8	8	1.64	3.89	2.32	22.1	1.64	5.72	34.8	2.06	9.35	1.06	4.03
60x60x4	3.7	4.71	60	4	8	1.6	4.24	2.26	15.8	1.83	3.58	25	2.3	6.56	1.18	2.91
60x60x5	4.57	5.82	60	5	8	1.64	4.24	2.32	19.4	1.82	4.45	30.7	2.3	8.03	1.17	3.46
60x60x6	5.42	6.91	60	6	8	1.69	4.24	2.39	22.8	1.82	5.29	36.1	2.29	9.44	1.17	3.96
60x60x8	7.09	9.03	60	8	8	1.77	4.24	2.5	29.2	1.8	6.89	46.1	2.26	12.2	1.16	4.86
60x60x10	8.69	11.1	60	10	8	1.85	4.24	2.61	34.9	1.78	8.41	55.1	2.23	14.8	1.16	5.67
63x63x4	3.9	4.96	63	4	7	1.69	-	-	18.9	1.95	-	29.9	2.45	7.81	1.25	-
63x63x5	4.81	6.13	63	5	7	1.74	-	-	23.1	1.94	-	36.6	2.44	9.52	1.25	-
63x63x6	5.72	7.28	63	6	7	1.78	-	-	27.1	1.93	-	42.9	2.43	11.2	1.24	-
65x65x5	4.97	6.34	65	5	9	1.76	4.59	2.49	24.7	1.98	5.22	39.2	2.49	10.3	1.27	4.13
65x65x6	5.91	7.53	65	6	9	1.8	4.59	2.55	29.3	1.97	6.21	46.3	2.48	12.1	1.27	4.74
65x65x7	6.83	8.7	65	7	9	1.85	4.6	2.62	33.4	1.96	7.18	53	2.47	13.8	1.26	5.27
65x65x8	7.66	9.76	65	8	6.5	1.89	-	-	37.4	1.96	8.13	59.4	2.47	15.5	1.26	-
70x70x5	5.37	6.84	70	5	9	1.88	4.95	2.66	31.2	2.14	6.1	49.5	2.69	13	1.38	4.87
70x70x6	6.38	8.13	70	6	9	1.93	4.95	2.73	36.9	2.13	7.27	58.5	2.68	15.3	1.37	5.6
70x70x7	7.38	9.4	70	7	9	1.97	4.95	2.79	42.3	2.12	8.41	67.1	2.67	17.5	1.36	6.28
70x79x8	8.36	10.6	70	8	9	2.01	4.95	2.85	47.5	2.11	9.52	75.3	2.66	19.7	1.36	6.91
70x70x9	9.34	11.9	70	9	9	2.05	4.95	2.9	52.6	2.1	10.6	83.1	2.64	22	1.36	7.59
70x70x10	10.3	13.1	70	10	9	2.09	4.95	2.96	57.2	2.09	11.7	90.5	2.63	23.9	1.35	8.1
75x75x5	5.78	7.36	75	5	10	1.99	5.3	2.82	38.4	2.29	6.98	60.7	2.87	16.2	1.48	5.73
75x75x6	6.85	8.73	75	6	9	2.05	5.3	2.9	45.8	2.29	8.41	72.7	2.89	18.9	1.47	6.53
75x75x7	7.94	10.1	75	7	10	2.09	5.3	2.95	52.4	2.28	9.67	83.6	2.87	21.1	1.46	7.15
75x75x8	8.99	11.4	75	8	9	2.14	5.3	3.02	59.1	2.27	11	93.8	2.86	24.5	1.46	8.09
75x75x9	10.1	12.8	75	9	9	2.18	-	-	66.1	2.27	-	105	2.86	27.5	1.46	-
75x75x10	11.1	14.1	75	10	10	2.21	5.3	3.12	71.4	2.25	13.5	113	2.83	29.8	1.45	9.55
80x80x6	7.34	9.35	80	6	10	2.17	5.66	3.07	55.8	2.44	9.57	88.5	3.08	23.1	1.57	7.54
80x80x7	8.49	10.8	80	7	10	2.21	5.66	3.13	64.2	2.44	11.1	102	3.07	26.5	1.57	8.48
80x80x8	9.63	12.3	80	8	10	2.26	5.66	3.19	72.2	2.43	12.6	115	3.06	29.9	1.56	9.37
80x80x10	11.9	15.1	80	10	10	2.34	5.66	3.3	87.5	2.41	15.4	139	3.03	36.4	1.55	11
80x80x12	14	17.9	80	12	10	2.41	5.66	3.41	102	2.39	18.2	161	3	42.7	1.55	12.5
90X90X6	8.3	10.6	90	6	11	2.41	6.36	3.47	80.3	2.76	12.2	127	3.47	33.3	1.77	9.79
90X90X7	9.61	12.2	90	7	11	2.45	6.36	3.47	92.6	2.75	14.1	147	3.46	38.3	1.77	11
90X90X8	10.9	13.9	90	8	11	2.5	6.36	3.53	104	2.74	16.1	166	3.45	43.1	1.76	12.2
90X90X9	12.2	15.5	90	9	11	2.54	6.36	3.59	116	2.73	17.9	184	3.44	47.9	1.76	13.3
90X90X10	13.4	17.1	90	10	11	2.58	6.36	3.65	127	2.72	19.8	201	3.42	52.6	1.75	14.4
90X9012	15.9	20.3	90	12	11	2.66	6.36	3.76	148	2.7	23.3	234	3.4	61.7	1.74	16.4
100X100X6	9.26	11.8	100	6	12	2.64	7.07	3.74	111	3.07	15.1	176	3.86	46.1	1.98	12.3
100X100X6.5	10.1	12.8	100	6.5	12	2.68	-	-	122	3.09	-	193	3.88	50.7	1.99	-
100X100X7	10.7	13.3	100	7	12	2.69	7.07	3.81	128	3.06	17.5	203	3.86	53	1.97	14
100X100X8	12.2	15.5	100	8	12	2.74	7.07	3.87	145	3.06	19.9	230	3.85	59.9	1.96	15.5
100X100X9	13.6	17.3	100	9	12	2.78	7.07	3.93	161	3.05	22.3	256	3.84	66.4	1.96	16.9
100X100X10	15	19.2	100	10	12	2.82	7.07	3.99	177	3.04	24.6	280	3.83	73	1.95	18.3

100X100X12	17.8	22.7	100	12	12	2.9	7.07	4.11	207	3.02	29.1	328	3.8	85.7	194	20.9
100X100X14	20.6	26.2	100	14	12	2.98	7.07	4.22	235	3	33.5	372	3.77	98.2	1.94	23.3
100X100X15	21.9	27.9	100	15	12	3.02	7.07	4.27	249	2.98	35.6	393	3.75	104	1.93	24.4
100X100X16	23.2	29.6	100	16	12	3.06	7.07	4.32	262	2.97	37.7	413	3.74	110	1.93	25.6
110X110X6	10.2	13	110	6	12	2.89	7.78	4.09	149	3.39	18.4	237	4.27	62	2.18	15.2
110X110X7	11.8	15.1	110	7	12	2.94	7.78	4.16	173	3.39	21.4	274	4.27	71.3	2.18	17.2
110X110X8	13.4	17.1	110	8	12	2.99	7.78	4.22	195	3.38	24.4	310	4.26	80.5	2.17	19.1
110X110X9	15	19.1	110	9	12	3.03	7.78	4.28	217	3.37	27.3	345	4.25	89.4	2.16	20.9
110X110X10	16.6	21.2	110	10	12	3.07	7.78	4.34	239	3.36	30.1	379	4.23	98.3	2.16	22.6
110X110X12	19.7	25.1	110	12	12	3.15	7.78	4.46	280	3.34	35.7	444	4.2	116	2.15	25.9
110X110X16	25.7	32.8	110	16	10	3.32	-	-	357	3.3	46.5	565	4.15	150	2.14	-
120X120X8	14.7	18.7	120	8	13	3.23	8.49	4.56	255	3.69	29.1	405	4.65	105	2.37	23.1
120X120X9	16.5	21	120	9	13	3.27	8.49	4.62	285	3.68	32.6	452	4.64	117	2.36	25.3
120X120X10	18.2	23.2	120	10	13	3.31	8.49	4.69	313	3.67	36	497	4.63	129	2.36	27.5
120X120X11	19.9	25.4	120	11	13	3.36	8.49	4.75	341	3.66	39.4	541	6.62	140	2.35	29.6
120X120X12	21.6	27.5	120	12	13	3.4	8.49	4.8	368	3.65	42.7	584	6.6	152	2.35	31.6
120X120X13	23.3	29.7	120	13	13	3.44	8.49	4.86	394	3.64	46	625	4.59	163	2.34	33.5
120X120X15	26.6	33.9	120	15	13	3.51	8.49	4.97	445	3.62	52.4	705	4.56	185	2.34	37.1
125x125x8	15.5	19.7	125	8	14	3.36	-	-	294	3.87	-	467	4.87	122	2.49	-
125x125x9	17.3	22	125	8	14	3.4	-	-	327	3.86	-	520	4.86	135	2.84	-
125x125x10	19.1	24.3	125	10	14	3.45	-	-	360	3.85	-	571	4.84	149	2.47	-
125x125x12	22.7	28.9	125	12	14	3.53	-	-	422	3.82	-	670	4.82	174	2.46	-
125x125x14	26.2	33.4	125	14	14	3.61	-	-	482	3.8	-	764	4.78	200	2.45	-
125x125x16	29.6	37.8	125	16	14	3.68	-	-	539	3.78	-	853	4.75	224	2.44	-
130x130x8	15.9	20.3	130	8	10	3.5	-	-	331	4.04	34.9	527	5.1	135	2.58	-
130x130x9	17.9	22.9	130	9	13	3.53	-	-	359	4.02	39	587	5.07	152	2.58	-
130x130x10	19.7	25.1	130	10	10	3.59	-	-	405	4.02	43.1	645	5.07	166	2.57	-
130x130x11	21.7	27.6	130	11	14	3.6	9.19	5.09	437	3.98	46.5	694	5.01	180	2.55	35.4
130x130x12	23.6	30	130	12	14	3.64	9.19	5.15	472	3.97	50.4	750	5	194	2.54	37.7
130x130x13	25.4	32.3	130	13	14	3.68	9.19	5.2	507	3.96	54.4	804	4.99	209	2.54	40.2
130x130x14	27.2	34.7	130	14	14	3.72	9.19	5.26	540	3.95	58.2	857	4.97	223	2.54	42.4
130x130x16	30.9	39.3	130	16	14	3.8	9.19	5.37	605	3.93	65.7	959	4.94	251	2.53	46.7
140x140x9	19.4	24.7	140	9	14	3.78	-	-	466	4.34	-	739	5.47	192	2.79	-
140x140x10	21.5	27.3	140	10	14	3.82	-	-	512	4.33	-	814	5.46	211	2.78	-
140x140x12	25.5	32.5	140	12	14	3.9	-	-	602	4.31	-	957	5.43	248	2.76	-
140x140x13	27.5	35	140	13	15	3.92	9.9	5.55	639	4.27	63.4	1014	5.39	263	2.74	47.4
140x140x14	29.4	37.5	140	14	15	3.96	9.9	5.6	681	4.26	67.8	1082	5.37	281	2.74	50.2
140x140x15	31.4	40	140	15	15	4	9.9	5.66	723	4.25	72.4	1148	5.36	299	2.73	52.7
150x150x10	23	29.3	150	10	16	4.03	10.6	5.71	624	4.62	56.9	990	5.82	258	2.97	45.1
150x150x11	25.2	32.1	150	11	16	4.08	10.6	5.77	681	4.61	62.4	1081	5.8	281	2.96	48.7
150x150x12	27.3	34.8	150	12	16	4.12	10.6	5.83	737	4.6	67.7	1170	5.8	303	2.95	52
150x150x13	29.5	37.6	150	13	16	4.17	10.6	5.9	792	4.59	73.1	1257	5.78	326	2.94	55.3
150x150x14	31.6	40.3	150	14	16	4.21	10.6	5.95	845	4.58	78.3	1343	5.77	348	2.94	58.5
150x150x15	33.8	43	150	15	16	4.25	10.6	6.01	898	4.57	83.5	1430	5.76	370	2.93	61.6
150x150x16	35.9	45.7	150	16	16	4.29	10.6	6.06	950	4.56	88.7	1507	5.74	392	2.93	64.7
150x150x18	40.1	51	150	18	16	4.37	10.6	6.17	1050	4.54	98.7	1665	5.71	435	2.92	70.4

150x150x20	44.1	56.42	150	20	12	4.46	-	-	1155	4.53	110	1830	5.71	481	2.92	-
160x160x10	24.7	31.4	160	10	16	4.3	-	-	774	4.96	-	1229	6.25	319	3.19	-
160x160x11	27	34.4	160	11	16	4.35	-	-	844	4.95	-	1341	6.24	348	3.18	-
160x160x12	29.4	37.4	160	12	16	4.39	-	-	913	4.94	-	1450	6.23	376	3.17	-
160x160x14	34	43.3	160	14	16	4.47	-	-	1046	4.92	-	1660	6.2	431	3.16	-
160x160x15	36.2	46.1	160	15	17	4.49	11.3	6.35	1100	4.88	95.6	1750	6.15	453	3.14	71.3
160x160x16	38.5	49.1	160	16	16	4.55	-	-	1175	4.89	-	1866	6.17	485	3.14	-
160x160x17	40.7	51.8	160	17	17	4.57	11.3	6.46	1230	4.86	108	1950	6.13	506	3.13	78.3
160x160x18	43	54.8	160	18	16	4.63	-	-	1299	4.87	-	2061	6.13	537	3.13	-
160x160x19	45.1	57.5	160	19	17	4.65	11.3	6.58	1350	4.84	118	2140	6.16	558	3.12	84.8
160x160x20	47.4	60.4	160	20	16	4.7	-	-	1419	4.85	-	2248	6.1	589	3.12	-
175x175x12	31.8	40.52	175	12	15	4.73	-	-	1170	5.38	91.8	1860	6.78	480	3.44	-
175x175x15	39.4	50.21	175	15	15	4.85	-	-	1440	5.35	114	2290	6.75	589	3.42	-
180x180x11	45.3	57.75	200	15	17	5.46	-	-	2180	6.14	150	3470	7.75	891	3.93	-
180x180x12	33.1	42.2	180	12	16	4.89	-	-	1317	5.59	-	2093	7.04	540	3.58	-
180x180x15	40.9	52.1	180	15	18	4.98	12.7	7.05	1590	5.52	122	2520	6.96	653	3.54	92.6
180x180x16	43.5	55.4	180	16	18	5.02	12.7	7.11	1680	5.51	130	2690	6.96	679	3.5	95.5
180x180x18	48.6	61.9	180	18	18	5.1	12.7	7.22	1870	5.49	145	2960	6.92	768	3.52	106
180x180x20	53.7	68.3	180	20	18	5.18	12.7	7.33	2040	5.47	159	3240	6.89	843	3.51	115
180x180x22	58.6	74.7	180	22	18	5.26	12.7	7.44	2210	5.44	174	3510	6.86	918	3.5	123
200x200x12	36.9	46.9	200	12	15	5.39	-	-	1826	6.24	125	2906	7.87	747	3.99	-
200x200x13	39.9	50.9	200	13	18	5.42	-	-	1961	6.21	-	3116	7.83	805	3.98	-
200x200x14	42.8	54.6	200	14	18	5.46	-	-	2097	6.2	-	3333	7.81	861	3.97	-
200x200x15	45.3	57.75	200	15	17	5.46	-	-	2180	6.14	150	3470	7.75	891	3.93	-
200x200x16	48.5	61.8	200	16	18	5.52	14.1	7.81	2340	6.13	162	3720	7.76	960	3.94	123
250x250x18	68.1	86.7	250	18	-	6.83	17.68	9.66	5156	7.71	283.8	8208	9.73	2104	4.93	-
250x250x19	71.7	91.4	250	19	-	6.87	17.68	9.72	5417	7.7	298.9	8622	9.71	2212	4.92	-
250x250x20	75.3	96.0	250	20	-	6.91	17.68	9.78	5674	7.69	313.6	9031	9.7	2318	4.91	-
250x250x21	78.9	100.6	250	21	-	6.96	17.68	9.84	5929	7.68	32806	9435	9.69	2423	4.91	-
250x250x22	82.5	105.1	250	22	-	7.00	17.68	9.89	6180	7.67	343.3	9833	9.67	2528	4.9	-
250x250x23	86.1	109.7	250	23	-	7.03	17.68	9.95	6429	7.66	357.8	10230	9.66	2632	4.9	-
250x250x24	89.7	114.2	250	24	-	7.07	17.68	10	6674	7.64	372.3	10610	9.64	2735	4.89	-
250x250x25	93.2	118.7	250	25	-	7.11	17.68	10.06	6917	7.63	386.7	11000	9.63	2837	4.89	-
250x250x26	96.7	123.2	250	26	-	7.15	17.68	10.11	7156	7.62	400.9	11370	9.61	2939	4.88	-
250x250x27	101.0	127.7	250	27	-	7.19	17.68	10.17	7393	7.61	415.1	11750	9.59	3040	4.88	-
250x250x28	104.0	132.1	250	28	-	7.23	17.68	10.22	7627	7.6	429.2	12110	9.57	3141	4.88	-
250x250x29	107.0	136.6	250	29	-	7.27	17.68	10.28	7858	7.59	443.1	12480	9.56	3241	4.87	-
250x250x30	111	141.0	250	30	-	7.3	17.68	10.33	8087	7.57	457	12830	9.54	3340	4.87	-
250x250x31	114.0	145.4	250	31	-	7.34	17.68	10.38	8313	7.56	470.8	13190	9.53	3439	4.86	-

250x250x32	118.0	149.7	250	32	-	7.38	17.68	10.44	8536	7.55	484.4	13540	9.51	3538	4.86	-
250x250x33	121.0	164.1	250	33	-	7.42	17.68	10.49	8757	7.54	498	13880	9.049	3636	4.86	-
250x250x34	124.0	158.4	250	34	-	7.45	17.68	10.54	8975	7.53	511.5	14220	9.47	3734	4.86	-
250x250x35	128.0	162.7	250	35	-	7.49	17.68	10.59	9191	7.52	524.9	14550	9.46	3832	4.85	-
300x300x25	112	142.7	300	25	-	8.35	21.21	11.8	12150	9.23	561.1	19370	11.65	4930	5.88	-
300x300x26	116	148.2	300	26	-	8.39	21.21	11.86	12590	9.22	582.5	20060	11.63	5115	5.87	-
300x300x27	121	153.7	300	27	-	8.43	21.21	11.92	13020	9.2	603.5	20750	11.62	5294	5.87	-
300x300x28	125	169.1	300	28	-	8.47	21.21	11.97	13450	9.19	624.6	21420	11.6	5475	5.87	-
300x300x29	129	164.6	300	29	-	8.50	21.21	12.03	13870	9.18	645.2	22090	11.59	5650	5.86	-
300x300x30	133	170.0	300	30	-	8.54	21.21	12.08	14290	9.17	666	22750	11.57	5828	5.86	-
300x300x31	138	175.4	300	31	-	8.58	21.21	12.14	14700	9.16	686.3	23400	11.55	5999	5.85	-
300x300x32	142	180.7	300	32	-	8.62	21.21	12.19	15120	9.15	707.2	24050	11.54	6184	5.85	-
300x300x33	146	186.1	300	33	-	8.66	21.21	12.24	15520	9.13	727.2	24690	11.52	6351	5.84	-
300x300x34	150	191.4	300	34	-	8.70	21.21	12.3	15930	9.12	747.7	25320	11.5	6532	5.84	-
300x300x35	154	196.7	300	35	-	8.73	21.21	12.35	16320	9.11	767.4	25950	11.49	6696	5.83	-