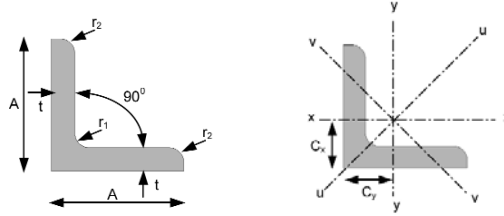


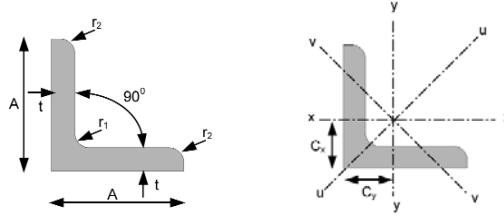
# Equal Angles



## Metric Units

Designation		Mass Per Metre	Radius		Area of Section	Distance Centre of Gravity Cx and Cy	Second Moment of Area			Radius of Gyration			Elastic Modulus Axis x-x, y-y
Size A x A	Thickness t		Root r1	Toe r2			Axis x-x, y-y	Axis u-u	Axis v-v	Axis x-x, y-y	Axis u-u	Axis v-v	
mm	mm	kg/m	mm	mm	cm <sup>2</sup>	cm	cm <sup>4</sup>	cm <sup>4</sup>	cm <sup>4</sup>	cm	cm	cm	cm <sup>3</sup>
20x20	3	0.885	4	2.4	1.12	0.592	0.381	0.601	0.161	0.583	0.733	0.379	0.271
	5	1.76	4	2.4	2.26	0.795	1.194	1.87	0.517	0.727	0.910	0.478	0.701
30x30	3	1.36	4	2.4	1.72	0.841	1.41	2.23	0.583	0.905	1.14	0.583	0.652
	5	2.16	4	2.4	2.76	0.921	2.167	3.42	0.918	0.886	1.113	0.577	1.042
40x40	3	1.83	4.5	2.4	2.33	1.09	3.49	5.55	1.44	1.22	1.54	0.787	1.20
	4	2.42	6	2.4	3.09	1.12	4.53	7.18	1.89	1.21	1.52	0.782	1.58
	5	2.95	4.5	2.4	3.77	1.17	5.48	8.68	2.27	1.21	1.52	0.777	1.93
	6	3.52	6	2.4	4.49	1.20	6.37	10.1	2.69	1.19	1.50	0.773	2.28
45x45	4	2.74	6.5	2.4	3.51	1.25	6.58	10.4	2.74	1.37	1.72	0.884	2.02
	5	3.38	6.5	2.4	4.32	1.29	7.98	12.6	3.33	1.36	1.71	0.878	2.49
	6	3.96	6.5	2.4	5.11	1.33	9.30	14.7	3.90	1.35	1.70	0.873	2.93
50x50	3	2.33	7	2.4	2.99	1.32	7.06	11.1	2.97	1.54	1.93	0.997	1.92
	4	3.06	6.5	2.4	3.91	1.37	9.16	14.5	3.81	1.53	1.93	0.987	2.52
	5	3.77	6.5	2.4	4.82	1.41	11.1	17.7	4.63	1.52	1.92	0.980	3.11
	6	4.43	6.5	2.4	5.71	1.45	13.0	20.6	5.42	1.51	1.90	0.975	3.67
	8	5.78	6.5	2.4	7.43	1.53	16.4	25.9	6.96	1.49	1.87	0.968	4.74
60x60	5	4.55	6.5	2.4	5.82	1.66	19.8	31.4	8.16	1.84	2.32	1.18	4.56
	6	5.42	6.5	2.4	6.91	1.70	23.2	36.8	9.58	1.83	2.31	1.18	5.39
	7	6.21	6.5	2.4	7.98	1.74	26.4	41.9	10.96	1.82	2.29	1.17	6.21
65x65	5	5.00	8.5	2.4	6.38	1.78	25.5	40.3	10.6	2.00	2.51	1.29	5.39
	6	5.91	8.5	2.4	7.57	1.82	29.9	47.3	12.4	1.99	2.50	1.28	6.38
	8	7.66	8.5	2.4	9.89	1.90	38.2	60.4	15.9	1.96	2.47	1.27	8.29
	10	9.42	8.5	2.4	12.13	1.98	45.7	72.1	19.3	1.94	2.44	1.26	10.11
70x70	6	6.38	8.5	2.4	8.17	1.94	37.7	59.8	15.6	2.15	2.70	1.38	7.46
	7	7.38	8.5	2.4	9.44	1.98	43.1	68.3	17.9	2.14	2.69	1.38	8.59
	8	8.29	8.5	2.4	10.69	2.02	48.3	76.5	20.1	2.12	2.67	1.37	9.70
	10	10.20	8.5	2.4	13.13	2.10	58.0	91.6	24.3	2.10	2.64	1.36	11.84
75x75	6	6.85	8.5	4.8	8.70	2.05	45.6	72.4	18.8	2.29	2.89	1.47	8.38
	8	9.03	10	4.8	11.5	2.13	59.0	93.5	24.5	2.27	2.85	1.46	11.0
	9	9.96	8.5	4.8	12.7	2.18	65.2	103	27.0	2.26	2.85	1.46	12.3
	12	13.0	8.5	4.8	16.6	2.29	82.6	130	34.9	2.23	2.80	1.45	15.9
80x80	6	7.32	8.5	4.8	9.30	2.18	55.9	88.7	23.0	2.45	3.09	1.57	9.6
	7	8.49	10	4.8	10.8	2.21	64.3	102	26.7	2.44	3.07	1.57	11.1
	8	9.66	10	4.8	12.3	2.26	72.4	115	30.0	2.43	3.06	1.56	12.6
	9	10.70	10	4.8	13.7	2.30	80.2	127	33.3	2.42	3.04	1.56	14.1
	12	13.90	10	4.8	17.9	2.41	101.8	161	42.8	2.39	3.00	1.55	18.2

# Equal Angles



## Metric Units

Designation		Mass Per Metre	Radius		Area of Section	Distance Centre of Gravity Cx and Cy	Second Moment of Area			Radius of Gyration			Elastic Modulus Axis x-x, y-y
Size A x A	Thickness t		Root r <sub>1</sub>	Toe r <sub>2</sub>			Axis x-x, y-y	Axis u-u	Axis v-v	Axis x-x, y-y	Axis u-u	Axis v-v	
mm	mm	kg/m	mm	mm	cm <sup>2</sup>	cm	cm <sup>4</sup>	cm <sup>4</sup>	cm <sup>4</sup>	cm	cm	cm	cm <sup>3</sup>
90x90	6	8.28	10	4.8	10.6	2.42	80.9	128	33.5	2.77	3.49	1.78	12.3
	7	9.59	10	4.8	12.2	2.46	93.2	148	38.5	2.76	3.48	1.77	14.3
	8	10.9	11	4.8	13.9	2.50	105	167	43.5	2.75	3.46	1.77	16.2
	9	12.2	11	4.8	15.6	2.54	117	185	48.2	2.74	3.45	1.76	18.0
	10	13.3	11	4.8	17.2	2.58	128	202	52.9	2.73	3.43	1.76	19.9
	12	15.9	11	4.8	20.3	2.66	149	235	62.1	2.70	3.40	1.75	23.5
	13	17.0	10	4.8	21.8	2.70	159	251	66.5	2.70	3.39	1.75	25.2
100x100	6	9.20	8.5	4.8	11.7	2.68	112	178	46.0	3.10	3.90	1.98	15.3
	7	10.7	10	4.8	13.6	2.71	129	206	53.3	3.08	3.89	1.98	17.8
	8	12.2	12	4.8	15.6	2.75	146	232	60.6	3.07	3.86	1.97	20.2
	10	14.9	10	4.8	19.1	2.84	178	283	73.3	3.05	3.84	1.96	24.8
	12	17.8	12	4.8	22.8	2.91	208	330	86.5	3.02	3.81	1.95	29.4
	13	19.1	10	4.8	24.4	2.95	222	352	92.5	3.02	3.80	1.95	31.5
120x120	15	21.9	12	4.8	28.0	3.02	250	395	105.1	2.99	3.76	1.94	35.8
	8	14.70	13	4.8	18.8	3.24	259	411	107.1	3.71	4.67	2.38	29.5
	10	18.2	13	4.8	23.3	3.32	316	502	130.5	3.69	4.64	2.37	36.4
	12	21.6	13	4.8	27.6	3.41	371	588	153.2	3.66	4.62	2.36	43.1
	15	26.6	13	4.8	34.0	3.52	448	710	186.3	3.63	4.57	2.34	52.8
130x130	8	15.9	13	4.8	20.4	3.49	332	527	137	4.03	5.08	2.59	34.9
	9	17.9	12	4.8	22.8	3.54	369	586	152	4.02	5.07	2.58	39.0
	10	19.7	13	4.8	25.3	3.57	406	645	167	4.01	5.05	2.57	43.1
	12	23.4	12	4.8	30.0	3.66	477	758	196	3.99	5.03	2.56	51.0
	15	28.8	12	4.8	37.0	3.78	577	916	239	3.95	4.98	2.54	62.6
	16	30.7	13	4.8	39.3	3.81	610	966	253	3.94	4.96	2.54	66.3
150x150	10	23.0	16	4.8	29.5	4.06	635	1008	263	4.64	5.85	2.99	58.0
	12	27.3	14	4.8	34.9	4.15	747	1187	307	4.63	5.83	2.97	68.9
	15	33.6	14	4.8	43.1	4.27	908	1442	374	4.59	5.79	2.95	84.6
	18	40.1	14	4.8	51.1	4.38	1060	1680	439	4.55	5.74	2.93	99.8
	19	41.9	14	4.8	53.7	4.42	1108	1756	460	4.54	5.72	2.93	104.8
175x175	12	31.8	15	4.8	40.9	4.77	1208	1920	495	5.43	6.85	3.48	94.9
	15	39.4	15	4.8	50.6	4.89	1473	2342	605	5.39	6.80	3.46	117
200x200	15	45.3	17	4.8	58.3	5.51	2236	3555	917	6.19	7.81	3.97	154
	16	48.5	18	4.8	62.0	5.54	2369	3765	973	6.18	7.79	3.96	164
	18	54.2	18	4.8	69.4	5.62	2627	4174	1080	6.15	7.76	3.95	183
	20	59.9	17	4.8	76.5	5.70	2876	4569	1184	6.13	7.73	3.93	201
	24	71.1	18	4.8	90.8	5.85	3357	5322	1391	6.08	7.65	3.91	237
	25	73.6	17	4.8	94.3	5.89	3471	5502	1441	6.07	7.64	3.91	246
250x250	25	93.7	24	4.8	120	7.12	7036	11169	2903	7.66	9.65	4.92	394
	28	104	24	4.8	133	7.24	7746	12287	3206	7.62	9.60	4.90	436
	32	118	24	4.8	151	7.39	8655	13707	3602	7.57	9.53	4.89	491
	35	128	24	4.8	164	7.50	9309	14723	3895	7.54	9.48	4.88	532