



**EQUAL ANGLES
TO BS4848 : PART 4**

Designation		Mass per meter	Area of Section	Distance of centre of gravity
Size A	Thickness t			
mm	mm	kg	cm ²	cm
25x25	3	1.11	1.42	0.72
	4	1.45	1.85	0.76
	5	1.77	2.26	0.8
40x40	4	2.42	3.08	1.12
	5	2.97	3.79	1.16
	6	3.52	4.48	1.2
50x50	5	3.77	4.8	1.4
	6	4.47	5.69	1.45
	8	5.82	7.41	1.52
60x60	5	4.57	5.82	1.64
	6	5.42	6.91	1.69
	8	7.09	9.03	1.77
	10	8.69	11.1	1.85
65x65	5	5	6.37	1.77
	6	5.91	7.53	1.81
	7	6.83		
	8	7.66	9.76	1.88
	9	8.26		
70x70	10	9.42	12	1.96
	6	6.38	8.13	1.83
	8	8.36	10.6	2.01
	10	10.3	13.1	2.09
75x75	5	5.78	7.36	1.99
	6	6.87	8.75	2.04
	7	7.94	10.1	2.09
	8	9	11.5	2.13
	10	11.1	14.1	2.21
	12	13.1	16.7	2.29



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Moment of Inertia	Radius of Gyration	Elastic Modulus	Plastic Modulus
Axis x-x, y-y	Axis x-x, y-y	Axis x-x, y-y	Axis x-x, y-y
cm ⁴	cm	cm ³	cm ³
0.8	0.75	0.45	0.83
1.01	0.74	0.58	1.07
1.2	0.73	0.71	1.3
4.47	1.21	1.55	2.85
5.43	1.2	1.91	3.5
6.31	1.19	2.26	4.13
11	1.51	3.05	5.58
12.8	1.5	3.61	6.61
16.3	1.48	4.68	8.55
19.4	1.82	4.45	8.15
22.8	1.82	5.29	9.67
29.2	1.8	6.89	12.57
34.9	1.78	8.41	15.32
24.7	1.98	5.22	
29.2	1.97	6.21	
33.4	1.96	7.18	
37.5	1.95	8.13	
41.4	1.94	9.05	
45.1	1.93	9.94	
36.9	2.13	7.27	13.3
47.5	2.11	9.52	17.37
57.2	2.09	11.7	21.25
38.5	2.29	7	
45.6	2.28	8.35	
52.4	2.27	9.67	
58.9	2.27	11	
71.2	2.25	13.5	
82.6	2.23	15.8	



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Designation		Mass per meter	Area of Section	Distance of centre of gravity
Size A	Thickness t			
mm	mm	kg	cm ²	cm
80 x 80	10	11.9	15.1	2.34
	8	9.63	12.3	2.26
	6	7.34	9.25	2.17
90 x 90	12	15.9	20.3	2.66
	10	13.4	17.1	2.58
	9	12.2	15.5	2.54
	8	10.9	13.9	2.5
	7	9.61	12.2	2.45
100 x 100	6	8.3	10.6	2.41
	15	21.9	27.9	3.02
	12	17.8	22.7	2.9
	10	15	19.2	2.82
	8	12.2	15.5	2.74
	6	9.26	11.8	2.64
120 x 120	15	26.6	33.9	3.51
	14	25	31.8	3.48
	12	21.6	27.5	3.4
	10	18.2	23.2	3.31
	8	14.7	18.7	3.23
130 x 130	16	30.8	39.3	3.8
	15	29	37	3.76
	12	23.5	30	3.64
	10	19.8	25.2	3.55
150 x 150	20	44.2	56.3	4.44
	19	42.1	53.7	4.4
	18	40.1	51	4.37
	15	33.8	43	4.25
	12	27.3	34.8	4.12
	10	23	29.14	4.03
200 x 200	24	71.1	90.8	5.84
	20	59.9	76.6	5.68
	18	54.2	69.14	5.6
	16	48.5	61.8	5.52



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Moment of Inertia	Radius of Gyration	Elastic Modulus	Plastic Modulus
Axis x-x, y-y	Axis x-x, y-y	Axis x-x, y-y	Axis x-x, y-y
cm ⁴	cm	cm ³	cm ³
55.8	2.44	9.57	17.52
72.2	2.43	12.6	22.95
87.5	2.41	15.4	28.15
80.3	2.76	12.2	22.31
92.5	2.75	14.1	
104	2.74	16.1	29.3
116	2.73	17.9	
127	2.72	19.8	36.03
148	2.7	23.3	42.5
111	107	15.1	
145	3.06	19.9	36.43
177	3.04	24.6	44.73
207	3.02	29.1	53.03
249	2.98	35.6	64.77
255	3.69	29.1	
313	3.67	36	
368	3.65	42.7	
420	3.63	49.2	
445	3.62	52.4	
401	3.99	42.5	
472	3.67	50.4	
573	3.94	62	
605	3.93	65.7	
624	4.62	56.9	103.77
737	4.6	67.7	123.35
898	4.57	83.5	151.85
1050	4.54	98.7	179.37
1100	4.52	104	
1150	4.51	109	
2340	6.16	162	293.49
2850	6.11	199	361.01
2600	6.13	181	327.55
3330	6.06	235	426.2