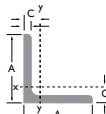


EQUAL ANGLES

TO BS4848 : PART 4

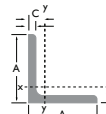
Designation		Mass per meter	Area of Section	Distance of centre of gravity
Size A	Thickness t			
mm	mm	kg	cm ²	cm
200 x 200	24	71.1	90.8	5.84
	20	59.9	76.6	5.68
	18	54.2	69.14	5.60
	16	48.5	61.8	5.52
150 x 150	20	44.2	56.30	4.44
	19	42.1	53.70	4.40
	18	40.1	51.0	4.37
	15	33.8	43.0	4.25
	12	27.3	34.8	4.12
	10	23.0	29.14	4.03
130 x 130	16	30.80	39.30	3.80
	15	29.00	37.00	3.76
	12	23.50	30.00	3.64
	10	19.80	25.20	3.55
120 x 120	15	26.60	33.90	3.51
	14	25.00	31.80	3.48
	12	21.60	27.50	3.4
	10	18.20	23.20	3.31
	8	14.70	18.70	3.23
100 x 100	15	21.9	27.9	3.02
	12	17.8	22.7	2.90
	10	15.0	19.2	2.82
	8	12.2	15.5	2.74
	6	9.26	11.80	2.64
	12	15.9	20.3	2.66
90 x 90	10	13.4	17.1	2.58
	9	12.20	15.50	2.54
	8	10.9	13.9	2.50
	7	9.61	12.20	2.45
	6	8.30	10.6	2.41
	10	11.9	15.1	2.34
80 x 80	8	9.63	12.3	2.26
	6	7.34	9.25	2.17



EQUAL ANGLES

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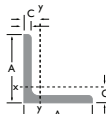
Moment of Inertia	Radius of Gyration	Elastic Modulus	Plastic Modulus
Axis x-x, y-y	Axis x-x, y-y	Axis x-x, y-y	Axis x-x, y-y
cm ⁴	cm	cm ³	cm ³
3330	6.06	235	426.20
2850	6.11	199	361.01
2600	6.13	181	327.55
2340	6.16	162	293.49
1150	4.51	109	
1100	4.52	104	
1050	4.54	98.7	179.37
898	4.57	83.5	151.85
737	4.60	67.7	123.35
624	4.62	56.9	103.77
605	3.93	65.7	
573	3.94	62.0	
472	3.97	50.4	
401	3.99	42.5	
445	3.62	52.4	
420	3.63	49.2	
368	3.65	42.7	
313	3.67	36.0	
255	3.69	29.1	
249	2.98	35.6	64.77
207	3.02	29.1	53.03
177	3.04	24.6	44.73
145	3.06	19.9	36.43
111	1.07	15.1	
148	2.70	23.3	42.50
127	2.72	19.8	36.03
116	2.73	17.9	
104	2.74	16.1	29.30
92.5	2.75	14.1	
80.3	2.76	12.2	22.31
87.5	2.41	15.4	28.15
72.2	2.43	12.6	22.95
55.8	2.44	9.57	17.52



EQUAL ANGLES

TO BS4848 : PART 4

Designation		Mass per meter kg	Area of Section cm ²	Distance of centre of gravity cm
Size A mm	Thickness t mm			
75 x 75	12	13.10	16.70	2.29
	10	11.10	14.10	2.21
	8	9.00	11.50	2.13
	7	7.94	10.10	2.09
	6	6.87	8.75	2.04
70 x 70	5	5.78	7.36	1.99
	10	10.3	13.1	2.09
	8	8.36	10.6	2.01
65 x 65	6	6.38	8.13	1.83
	10	9.42	12.00	1.96
	9	8.26		
	8	7.66	9.76	1.88
	7	6.83		
	6	5.91	7.53	1.81
	5	5.00	6.37	1.77
60 x 60	10	8.69	11.1	1.85
	8	7.09	9.03	1.77
	6	5.42	6.91	1.69
	5	4.57	5.82	1.64
50 x 50	8	5.82	7.41	1.52
	6	4.47	5.69	1.45
	5	3.77	4.80	1.40
40 x 40	6	3.52	4.48	1.20
	5	2.97	3.79	1.16
	4	2.42	3.08	1.12
25 x 25	5	1.77	2.26	0.80
	4	1.45	1.85	0.76
	3	1.11	1.42	0.72



EQUAL ANGLES

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Moment of Inertia Axis x-x, y-y cm ⁴	Radius of Gyration Axis x-x, y-y cm	Elastic Modulus Axis x-x, y-y cm ³	Plastic Modulus Axis x-x, y-y cm ³
82.6	223	15.8	
71.2	2.25	13.5	
58.9	2.27	11.0	
52.4	2.27	9.67	
45.6	2.28	8.35	
38.5	2.29	7.0	
57.2	2.09	11.70	21.25
47.5	2.11	9.52	17.37
36.9	2.13	7.27	13.30
45.1	1.93	9.94	
41.4	1.94	9.05	
37.5	1.95	8.13	
33.4	1.96	7.18	
29.2	1.97	6.21	
24.7	1.98	5.22	
34.9	1.78	8.41	15.32
29.2	1.80	6.89	12.57
22.8	1.82	5.29	9.67
19.4	1.82	4.45	8.15
16.3	1.48	4.68	8.55
12.8	1.50	3.61	6.61
11.0	1.51	3.05	5.58
6.31	1.19	2.26	4.13
5.43	1.20	1.91	3.50
4.47	1.21	1.55	2.85
1.20	0.73	0.71	1.30
1.01	0.74	0.58	1.07
0.80	0.75	0.45	0.83

