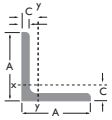
MILD STEEL EQUAL ANGLES

EQUAL ANGLES
TO BS4848 : PART 4

Designation				
Size A	Thickness t	Mass per meter	Area of Section	Distance of centre of gravity
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
90 x 90	12	15.9	20.3	2.66
	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
80 x 80	10	11.9	15.1	2.34
	8	9.63	12.3	2.26
	6	7.34	9.25	2.17



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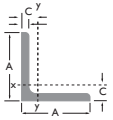
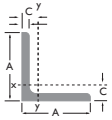
EQUAL ANGLES
TO BS4848 : PART 4

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	107	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	Area of Section	Distance of centre of gravity
Size A	Thickness t			
mm	mm	kg	cm^2	cm
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
	5	5.78	7.36	1.99
70 x 70	10	10.3	13.1	2.09
	8	8.36	10.6	2.01
	6	6.38	8.13	1.83
65 x 65	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



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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
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**