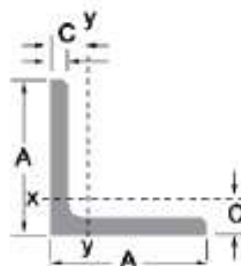


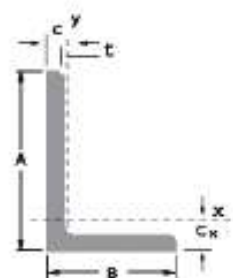
EQUAL ANGLES TO BS4848 : PART 4

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



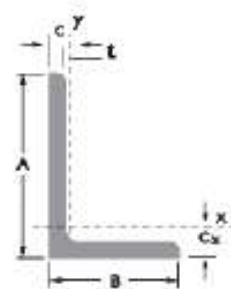
EQUAL ANGLES TO BS4848 : PART 4

Designation		Mass per meter	Area of Section	Distance of centre of gravity
Size A	Thickness t			
mm	mm	kg	cm ²	cm
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	12.20	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
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
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
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
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
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



UNEQUAL ANGLES TO BS4848 : PART 4

Designation		Mass per meter	Area of Section	Distance of centre of gravity		Moment of Inertia
Size A x B	Thickness t			cx	cy	Axis x-x
mm	mm	kg	cm ²	cm	cm	cm ⁴
65 x 50	5	4.35	5.54	1.99	1.25	23.2
	6	5.16	6.58	2.04	1.29	27.2
	8	6.75	8.60	2.11	1.37	34.8
75 x 50	6	5.65	7.19	2.44	1.21	40.5
	8	7.39	9.41	2.52	1.29	52.0
	10	9.07	11.60	2.60	1.36	62.6
80 x 60	6	6.37	8.11	2.47	1.48	51.4
	7	7.36	9.38	2.51	1.52	59.0
	8	8.34	10.6	2.55	1.56	66.3
100 x 50	6	6.85	8.73	3.49	1.04	89.7
	8	8.99	11.40	3.59	1.12	116
	10	11.10	14.10	3.67	1.20	141
100 x 65	7	8.77	11.2	3.23	1.51	113
	8	9.94	12.7	3.27	1.55	127
	10	12.3	15.6	3.36	1.63	154
100 x 75	7	9.32	11.90	3.06	1.83	118
	8	10.6	13.5	3.10	1.87	133
	10	13.0	16.6	3.19	1.95	162
	12	15.4	19.7	3.27	2.03	189



UNEQUAL ANGLES TO BS4848 : PART 4

Designation		Mass per meter	Area of Section	Distance of centre of gravity		Moment of Inertia
Size A x B	Thickness t			Cx	Cy	
mm	mm	kg	cm ²	cm	cm	cm ⁴
120 x 80	8	12.20	15.50	3.83	1.87	226
	10	15.00	19.10	3.92	1.95	276
	12	17.80	22.70	4.00	2.03	323
	14	20.50	26.20	4.08	2.10	368
125 x 75	8	12.2	15.5	4.14	1.68	247
	10	15.0	19.1	4.23	1.76	302
	12	17.8	22.7	4.31	1.84	354
150 x 75	10	17.0	21.6	5.32	1.61	501
	12	20.2	25.7	5.41	1.69	589
	15	24.8	31.6	5.53	1.81	713
150 x 90	10	18.2	23.2	5.00	2.04	533
	12	21.6	27.5	5.08	2.12	627
	15	26.6	33.9	5.21	2.23	761
150 x 100	10	19.00	24.20	4.80	2.34	552
	12	22.60	28.70	4.89	2.42	650
	14	26.10	33.20	4.97	2.5	743
	15	27.8	35.40	5.01	2.54	789
200 x 100	10	23.0	29.2	6.93	2.01	1220
	12	27.3	34.8	7.03	2.10	1440
	15	33.7	43.0	7.16	2.22	1758
200 x 150	12	32.0	40.8	6.08	3.61	1652
	15	39.6	50.5	6.21	3.73	2022
	18	47.1	60.0	6.33	3.85	2376



MILD STEEL FLATS (1)

Metric Size (mm)	kg/m	Mtrs / Tonne	Metric Size (mm)	kg/m	Mtrs / Tonne
13 x 3	0.307	3257	40 x 10	3.140	318
13 x 6	0.611	1637	40 x 12	3.768	265
16 x 3	0.378	2648	40 x 15	4.710	212
			40 x 20	6.280	159
20 x 3	0.471	2146	40 x 25	7.850	127
20 x 5	0.785	1274	40 x 30	9.420	106
20 x 6	0.940	1064			
20 x 10	1.570	637	45 x 3	1.060	943
			45 x 6	2.120	472
25 x 3	0.589	1698	45 x 8	2.830	353
25 x 5	0.981	1019	45 x 10	3.530	283
25 x 6	1.180	847	45 x 12	4.240	236
25 x 8	1.570	637	45 x 20	7.070	141
25 x 10	1.960	510	45 x 25	8.830	113
25 x 12	2.355	424			
			50 x 3	1.18	847
30 x 3	0.707	1414	50 x 5	1.96	510
30 x 5	1.180	847	50 x 6	2.36	424
30 x 6	1.410	709	50 x 8	3.14	318
30 x 8	1.884	532	50 x 10	3.93	254
30 x 10	2.355	424	50 x 12	4.71	212
30 x 12	2.826	353	50 x 15	5.89	170
30 x 20	4.710	212	50 x 20	7.85	127
			50 x 25	9.81	102
35 x 6	1.650	606	50 x 30	11.80	85
35 x 10	2.750	364	50 x 40	15.70	64
35 x 12	3.30	303			
35 x 20	5.50	182	55 x 10	4.56	219
40 x 3	0.942	1061	60 x 8	3.77	265
40 x 5	1.570	637	60 x 10	4.71	212
40 x 6	1.884	532	60 x 12	5.65	177
40 x 8	2.512	398	60 x 15	7.07	141



MILD STEEL FLATS (3)

Metric Size (mm)	kg/m	Mtrs / Tonne	Metric Size (mm)	kg/m	Mtrs / Tonne
120 x 6	5.65	177	180 x 6	8.50	171
120 x 10	9.42	106	180 x 10	14.14	71
120 x 12	11.30	89	180 x 12	17.06	59
120 x 15	14.10	71	180 x 15	21.20	47
120 x 20	18.80	53	180 x 20	28.30	35
120 x 25	23.60	42	180 x 25	35.30	28
130 x 6	6.10	164	200 x 6	9.90	106
130 x 8	8.16	122	200 x 10	15.70	64
130 x 10	10.20	98	200 x 12	18.80	53
130 x 12	12.20	84	200 x 15	23.60	42
130 x 15	15.30	67	200 x 20	31.40	32
130 x 20	20.40	49	200 x 25	39.20	25
130 x 25	25.50	39	200 x 30	47.20	21
140 x 6	6.60	151	220 x 10	17.25	58
140 x 10	11.00	91	220 x 15	25.87	23
140 x 12	13.20	76	220 x 20	34.50	29
140 x 20	22.0	46	220 x 25	43.20	23
150 x 6	7.06	142	250 x 10	19.60	51
150 x 8	9.42	106	250 x 12	23.60	42
150 x 10	11.80	85	250 x 15	29.40	34
150 x 12	14.10	71	250 x 20	39.20	26
150 x 15	17.70	57	250 x 25	49.10	20
150 x 20	23.60	42	250 x 40	78.40	13
150 x 25	29.40	34	250 x 50	98.10	10
160 x 10	12.60	79	280 x 12.5	27.48	36
160 x 12	15.10	66	300 x 10	23.55	43
160 x 15	18.80	53	300 x 12	28.30	35
160 x 20	25.20	40	300 x 15	35.30	28
			300 x 20	47.10	21
			300 x 25	58.80	17
			300 x 40	94.20	11