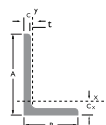


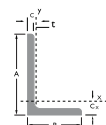
UNEQUAL ANGLES TO BS4848 : PART 4

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



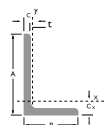
UNEQUAL ANGLES TO BS4848 : PART 4

Moment of Inertia	Radius of Gyration		Elastic Modulus		Plastic Modulus	
	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis x-x	Axis y-y
cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³
1146	6.29	4.37	174.0	103.0	316.19	186.02
979	6.33	4.40	147.0	86.9	267.38	156.62
803	6.36	4.44	119.0	70.5	216.97	126.54
299	6.40	2.64	137.0	38.4	240.46	72.25
247	6.43	2.67	111.0	31.3	195.68	57.82
210	6.46	2.68	93.2	26.3	164.91	48.16
280	4.72	2.81	79.0	37.5		
264	4.73	2.82	74.1	35.2		
232	4.75	2.84	642	30.6		
198	4.78	2.86	54.1	25.8		
205	4.74	2.46	77.7	30.4	138.77	56.53
171	4.77	2.49	63.3	24.8	113.4	45.60
146	4.80	2.51	53.3	21.0	95.83	38.20
120	4.75	1.94	75.3	21.0	131.45	40.59
99.9	4.79	1.97	61.4	17.2	107.6	32.51
85.8	4.81	1.99	51.8	14.6	91.04	27.11
95.5	3.95	2.05	43.2	16.9	77.36	31.42
82.1	3.97	2.07	36.5	14.3	65.57	26.34
67.6	4.00	2.09	29.6	11.6	53.33	21.19
130	3.75	2.22	46.4	22		
114	3.77	2.24	40.4	19.1		
98.1	3.8	2.26	34.1	16.2		
80.8	3.82	2.28	27.6	13.2		



UNEQUAL ANGLES TO BS4848 : PART 4

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



UNEQUAL ANGLES TO BS4848 : PART 4

Moment of Inertia Axis y-y	Radius of Gyration		Elastic Modulus		Plastic Modulus	
	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y
	cm ⁴	cm	cm ⁴	cm ³	cm ³	cm ³
90.2	3.10	2.14	28.0	16.5	50.97	30.27
77.6	3.12	2.16	23.8	14.0	43.31	25.55
64.1	3.14	2.18	19.3	11.4	35.31	20.69
56.9	3.15	2.19	17	10		
51.0	3.14	1.81	23.2	10.5	41.91	19.41
42.2	3.16	1.83	18.9	8.54	34.21	15.67
37.6	3.17	1.83	16.6	7.53	30.23	13.77
23.4	3.16	1.29	22.2	6.17		
19.5	3.18	1.31	18.1	5.04		
15.3	3.21	1.32	13.8	3.85		
31.8	2.50	1.73	12.2	7.16	22.17	13.08
28.4	2.51	1.74	10.7	6.34	19.63	11.54
24.8	2.52	1.75	9.29	5.49	17.02	9.96
21.9	2.33	1.38	12.8	6.03		
18.4	2.35	1.40	10.4	4.95	18.87	9.14
14.4	2.37	1.42	8.01	3.81	14.54	6.95
17.7	2.01	1.44	7.93	4.89	14.40	8.94
14.0	2.03	1.46	6.10	3.77	11.13	6.85
11.9	2.05	1.47	5.14	3.19	9.41	5.76

