



**UNEQUAL ANGLES
TO BS4848 : PART 4**

Designation		Mass per meter	Area of Section	Distance of centre of gravity		Momment of Inertia
Size A x B	Thickness t			CX	CX	Axis x-x
mm	mm	kg	cm ²	cm	cm	cm ³
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	8.6	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
	10	9.07	11.6	2.6	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
	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	11.4	3.59	1.12	116
	10	11.1	14.1	3.67	1.2	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	11.9	3.06	1.83	118
	8	10.6	13.5	3.1	1.87	133
	10	13	16.6	3.19	1.95	162
	12	15.4	19.7	3.27	2.03	189



UNEQUAL ANGLES

Moment of Inertia	Radius of gyration		Elastic Modulus		Plastic Modulus	
Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y
cm⁴	cm	cm	cm³	cm³	cm⁴	cm⁵
11.9	2.05	1.47	5.14	3.19	9.41	5.76
14	2.03	1.46	6.10	3.77	11.13	6.85
17.7	2.01	1.44	7.93	4.89	14.40	8.94
14.4	2.37	1.42	8.01	3.81	14.54	6.95
18.4	2.35	1.40	10.4	4.95	18.87	9.14
21.9	2.33	1.38	12.8	6.03		
24.8	2.52	1.75	9.29	5.49	17.02	9.96
28.4	2.51	1.74	10.7	6.34	19.63	11.54
31.8	2.50	1.73	12.2	7.16	22.17	13.08
15.3	3.21	1.32	13.8	3.85		
19.5	3.18	1.31	18.1	5.04		
23.4	3.16	1.29	22.2	6.17		
37.6	3.17	1.83	16.6	7.53	30.23	13.77
42.2	3.16	1.83	18.9	8.54	34.21	15.67
51	3.14	1.81	23.2	10.5	41.91	19.41
56.9	3.15	2.19	17	10		
64.1	3.14	2.18	19.3	11.4	35.31	20.69
77.6	3.12	2.16	23.8	14.0	43.31	25.55
90.2	3.10	2.14	28.0	16.5	50.97	30.27

**UNEQUAL ANGLES
TO BS4848 : PART 4**



Designation		Mass per meter	Area of Section	Distance of centre of gravity		Momment of Inertia
Size A x B	Thickness t			CX	CX	Axis x-x
mm	mm	kg	cm ²	cm	cm	cm ³
120 x 80	8	12.2	15.5	3.83	1.87	226
	10	15	19.1	3.92	1.95	276
	12	17.8	22.7	4	2.03	323
	14	20.5	26.2	4.08	2.1	368
125 x 75	8	12.2	15.5	4.14	1.68	247
	10	15	19.1	4.23	1.76	302
	12	17.8	22.7	4.31	1.84	354
150 x 75	10	17	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	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	24.2	4.8	2.34	552
	12	22.6	28.7	4.89	2.42	650
	14	26.1	33.2	4.97	2.5	743
	15	27.8	35.4	5.01	2.54	789
200 x 100	10	23	29.2	6.93	2.01	1220
	12	27.3	34.8	7.03	2.1	1440
	15	33.7	43	7.16	2.22	1758
200 X 150	12	32	40.8	6.08	3.61	1652
	15	39.6	50.5	6.21	3.73	2022
	18	47.1	60	6.33	3.85	2376



UNEQUAL ANGLES

Moment of Inertia	Radius of gyration		Elastic Modulus		Plastic Modulus	
Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y
cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³
80.8	3.82	2.28	27.6	13.2		
98.1	3.8	2.26	34.1	16.2		
114	3.77	2.24	40.4	19.1		
130	3.75	2.22	46.4	22		
67.6	4	2.09	29.6	11.6	53.33	21.19
82.1	3.97	2.07	36.5	14.3	65.57	26.34
95.5	3.95	2.05	43.2	16.9	77.36	31.42
85.8	4.81	1.99	51.8	14.6	91.04	27.11
99.9	4.79	1.97	61.4	17.2	107.6	32.51
120	4.75	1.94	75.3	21	131.45	40.59
146	4.8	2.51	53.3	21	95.83	38.2
171	4.77	2.49	63.3	24.8	113.4	45.6
205	4.74	2.46	77.7	30.4	138.77	56.53
198	4.78	2.86	54.1	25.8		
232	4.75	2.84	64.2	30.6		
264	4.73	2.82	74.1	35.2		
280	4.72	2.81	79	37.5		
210	6.46	2.68	93.2	26.3	164.91	48.16
247	6.43	2.67	111	31.3	195.68	57.82
299	6.4	2.64	137	38.4	240.46	72.25
803	6.36	4.44	119	70.5	216.97	126.54
979	6.33	4.4	147	86.9	267.38	156.62
1146	6.29	4.37	174	103	316.19	186.02