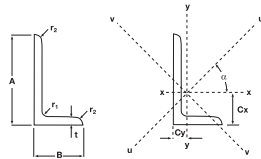


Unequal Angles

Dimensions and properties to BS EN 10056-1: 1999

200 x 150 x 18 – 100 x 65 x 7

*These sizes are in addition to our standard range to BS EN 10056-1: 1999 specification



Designation Serial Size	Mass per metre kg/m	Root Radius r_1 mm	Toe Radius r_2 mm	Area of Section cm ²	Distance of centre of gravity		Second Moment of Area				Radius of Gyration				Elastic Modulus		Angle Axis x-x to Axis y-y Tan α	Torsional Constant J cm ⁴	Equivalent Slenderless Coefficient		Mono Symmetry Index ψa
					C_x cm	C_y cm	Axis x-x cm ⁴	Axis y-y cm ⁴	Axis u-u cm ⁴	Axis v-v cm ⁴	Axis x-x cm	Axis y-y cm	Axis u-u cm	Axis v-v cm	Axis x-x cm ²	Axis y-y cm ²			Min. ϕa	Max. ϕa	
*200 x 150 x 18	47.1	15	7.5	60.0	6.33	3.85	2376	1146	2920	623	6.29	4.37	6.97	3.22	174	103	0.549	67.9	2.93	3.72	4.60
200 x 150 x 15	39.6	15	7.5	50.5	6.21	3.73	2023	979	2480	526	6.33	4.40	7.00	3.23	147	86.9	0.551	39.9	3.53	4.50	5.55
200 x 150 x 12	32.0	15	7.5	40.8	6.08	3.61	1653	803	2030	430	6.36	4.44	7.04	3.25	119	70.5	0.552	20.9	4.43	5.70	6.97
200 x 100 x 15	33.7	15	7.5	43.0	7.16	2.22	1759	299	1860	193	6.40	2.64	6.59	2.12	137	38.4	0.260	34.3	3.54	5.17	9.19
200 x 100 x 12	27.3	15	7.5	34.8	7.03	2.10	1441	247	1530	159	6.43	2.67	6.63	2.14	111	31.3	0.262	18.0	4.42	6.57	11.5
200 x 100 x 10	23.0	15	7.5	29.2	6.93	2.01	1219	210	1290	135	6.46	2.68	6.65	2.15	93.3	26.3	0.263	10.66	5.26	7.92	13.9
150 x 90 x 15	26.6	12	6.0	33.9	5.21	2.23	761	205	841	126	4.74	2.46	4.98	1.93	77.7	30.4	0.354	26.8	2.58	3.59	5.96
150 x 90 x 12	21.6	12	6.0	27.5	5.08	2.12	627	171	694	104	4.78	2.49	5.02	1.94	63.3	24.8	0.358	14.1	3.24	4.58	7.50
150 x 90 x 10	18.2	12	6.0	23.2	5.00	2.04	533	146	591	88.3	4.80	2.51	5.05	1.95	53.3	21.0	0.360	8.30	3.89	5.56	9.03
150 x 75 x 15	24.8	12	6.0	31.7	5.52	1.81	713	119	753	78.6	4.75	1.94	4.88	1.58	75.2	21.0	0.253	25.1	2.62	3.74	6.84
150 x 75 x 12	20.2	12	6.0	25.7	5.40	1.69	589	99.6	623	64.7	4.78	1.97	4.92	1.59	61.3	17.1	0.258	13.2	3.30	4.79	8.60
150 x 75 x 10	17.0	12	6.0	21.7	5.31	1.61	501	85.4	531	55.1	4.81	1.99	4.95	1.60	51.7	14.5	0.261	7.8	3.95	5.83	10.4
125 x 75 x 12	17.8	11	5.5	22.7	4.31	1.84	354	95.5	391	58.5	3.95	2.05	4.15	1.61	43.2	16.9	0.354	11.6	2.66	3.73	6.23
125 x 75 x 10	15.0	11	5.5	19.1	4.23	1.75	302	85.1	334	49.9	3.97	2.07	4.18	1.61	36.5	14.3	0.357	6.87	3.21	4.55	7.50
125 x 75 x 8	12.2	11	5.5	15.5	4.15	1.68	247	67.6	274	40.9	4.00	2.09	4.21	1.63	29.6	11.6	0.360	3.62	4.00	5.75	9.43

100 x 75 x 12	15.4	10	5.0	19.7	3.27	2.03	189	90.2	230	49.5	3.10	2.14	3.42	1.59	28.1	16.5	0.540	10.05	2.10	2.64	3.46
100 x 75 x 10	13.0	10	5.0	16.6	3.19	1.95	162	77.6	197	42.2	3.12	2.16	3.45	1.59	23.8	14.0	0.544	5.95	2.54	3.22	4.17
100 x 75 x 8	10.6	10	5.0	13.5	3.10	1.87	133	64.1	162	34.6	3.14	2.18	3.47	1.60	19.3	11.4	0.547	3.13	3.18	4.08	5.24
*100 x 65 x 10	12.3	10	5.0	15.6	3.36	1.63	154	51.0	175	30.1	3.14	1.81	3.35	1.39	23.2	10.5	0.410	5.61	2.62	3.43	5.45
*100 x 65 x 8	9.9	10	5.0	12.7	3.27	1.55	127	42.2	144	24.8	3.16	1.83	3.37	1.40	18.9	8.54	0.413	2.96	3.14	4.35	6.86
*100 x 65 x 7	8.8	10	5.0	11.2	3.23	1.51	113	37.6	128	22	3.17	1.83	3.39	1.80	16.6	7.53	0.415	2.02	3.58	5.00	7.85

