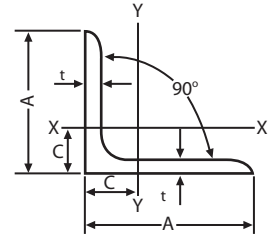


Unequal Angle Bars



Designation		Mass Per Metre	Root Radius		Area of Section	Distance Centre of Gravity		Second Moment of Area				Radius Of Gyration				Elastic Modulus		Angle x-x Axis to u-u Axis
Section Size	Thickness		Root	Toe		Cx	Cy	Axis	Axis	Axis	Axis	Axis	Axis	Axis	Axis	Axis	Axis	
A x B	t	kg/m	r ¹	r ²	A	C ^x	C ^y	x - x	y - y	u - u	v - v	x - x	y - y	u - u	v - v	x - x	y - y	
mm	mm	kg/m	mm	mm	cm ²	cm	cm	cm ⁴	cm ⁴	cm ⁴	cm ⁴	cm	cm	cm	cm	cm ³	cm ³	
63 x 38	4.5	3.5	6.0	2.4	4.4	2.10	0.87	18.0	4.9	20.0	3.0	2.01	1.06	2.12	0.82	4.20	1.68	0.36
	6.0	4.4	6.0	2.4	5.8	2.17	0.93	23.0	6.3	25.0	3.8	1.99	1.04	2.10	0.82	5.50	2.18	0.36
75 x 50	6.0	5.7	7.0	2.4	7.2	2.45	1.21	40.9	14.6	47.1	8.5	2.38	1.42	2.55	1.08	8.10	3.87	0.44
	8.0	7.4	7.0	2.4	9.4	2.53	1.29	52.4	18.6	60.1	10.9	2.36	1.40	2.52	1.07	10.50	5.01	0.43
100 x 65	7.0	8.8	10.0	4.8	11.2	3.23	1.52	113.0	37.7	128.0	22.1	3.18	1.84	3.39	1.41	16.70	7.56	0.42
	8.0	9.94	10.0	4.8	12.7	3.28	1.56	127.0	42.3	144.0	24.9	3.17	1.83	3.38	1.40	18.90	8.57	0.41
	9.0	11.0	10.0	7.0	14.0	3.31	1.58	138.0	45.5	157.0	26.8	3.14	1.80	3.34	1.38	20.60	9.26	0.41
	10.0	12.3	10.0	4.8	15.6	3.36	1.64	154.0	51.1	175.0	30.2	3.14	1.81	3.35	1.39	23.20	10.50	0.41
	12.0	14.4	10.0	7.0	18.4	3.43	1.70	177.0	58.0	201.0	34.7	3.11	1.78	3.30	1.37	27.00	12.10	0.40
100 x 75	7.0	9.3	10.0	5.0	11.9	3.06	1.84	118.0	56.9	144.0	30.7	3.15	2.19	3.49	1.61	17.00	10.10	0.55
	8.0	10.6	10.0	4.8	13.5	3.11	1.88	133.0	64.2	163.0	34.6	3.14	2.18	3.48	1.60	19.30	11.40	0.55
	9.0	11.8	10.0	4.8	15.1	3.15	1.92	148.0	71.1	181.0	38.4	3.13	2.17	3.46	1.60	21.60	12.70	0.55
	10.0	13.0	10.0	4.8	16.6	3.19	1.96	162.0	77.7	198.0	42.2	3.12	2.16	3.45	1.59	23.80	14.00	0.55
	12.0	15.4	10.0	4.8	19.7	3.27	2.03	189.0	90.3	230.0	49.5	3.10	2.14	3.42	1.59	28.10	16.50	0.54
	13.0	16.5	10.0	4.8	21.2	3.31	2.07	202.0	96.3	245.0	53.1	3.09	2.13	3.40	1.58	30.20	17.70	0.54
125 x 75	6.5	10.0	11.0	4.8	12.7	4.07	1.62	206.0	56.6	228.0	34.4	4.02	2.11	4.23	1.64	24.40	9.63	0.36
	7.0	10.7	11.0	4.8	13.7	4.10	1.64	220.0	60.5	244.0	36.7	4.01	2.10	4.22	1.64	26.20	10.30	0.36
	8.0	12.2	11.0	4.8	15.5	4.14	1.69	249.0	68.1	275.0	41.3	4.00	2.10	4.21	1.63	29.70	11.70	0.36
	9.0	13.5	11.0	4.8	17.4	4.19	1.73	276.0	75.5	306.0	45.8	3.99	2.09	4.20	1.62	33.20	13.10	0.36
	10.0	15.0	11.0	4.8	19.2	4.23	1.77	303.0	82.6	336.0	50.2	3.98	2.08	4.18	1.63	36.70	14.40	0.36
	12.0	17.8	11.0	4.8	22.7	4.32	1.84	355.0	96.0	392.0	58.8	3.95	2.06	4.16	1.61	43.40	17.00	0.35
	13.0	19.1	10.0	7.0	24.3	4.35	1.87	376.0	101.0	414.0	61.9	3.93	2.04	4.13	1.60	46.10	17.90	0.35
150 x 75	7.0	12.1	12.0	5.0	15.5	5.17	1.50	364.0	63.1	386.0	40.8	4.85	2.02	5.00	1.62	37.00	10.50	0.26
	8.0	13.8	11.0	4.8	17.5	5.23	1.54	411.0	71.2	436.0	45.8	4.84	2.02	4.99	1.62	42.10	11.90	0.26
	9.0	15.3	12.0	8.5	19.4	5.25	1.55	447.0	75.3	473.0	48.7	4.79	1.97	4.93	1.58	45.80	12.70	0.26
	10.0	17.0	11.0	4.8	21.7	5.32	1.62	503.0	86.3	533.0	55.8	4.82	2.00	4.96	1.60	52.00	14.70	0.26
	12.0	20.2	11.0	4.8	25.7	5.41	1.70	591.0	100.0	626.0	65.3	4.79	1.98	4.93	1.59	61.60	17.30	0.26
	15.0	24.8	11.0	4.8	31.7	5.53	1.81	715.0	120.0	756.0	79.2	4.75	1.95	4.89	1.58	75.50	21.10	0.25
150 x 90	8.0	14.3	10.0	5.0	18.7	4.93	1.97	436.0	121.0	484.0	72.7	4.83	2.54	5.09	1.97	43.30	17.20	0.36
	9.0	16.4	12.0	6.0	20.9	4.95	2.00	485.0	133.0	537.0	80.5	4.81	2.52	5.06	1.96	48.20	19.00	0.36
	10.0	18.2	12.0	4.8	23.2	5.00	2.04	536.0	147.0	595.0	89.2	4.81	2.52	5.06	1.96	53.70	21.20	0.36
	12.0	21.6	12.0	4.8	27.6	5.09	2.12	630.0	172.0	698.0	105.0	4.78	2.50	5.03	1.95	63.60	25.00	0.36
	15.0	26.6	12.0	4.8	34.0	5.21	2.24	764.0	207.0	844.0	127.0	4.74	2.47	4.99	1.93	78.10	30.60	0.35
150 x 100	8.0	15.2	12.0	8.5	19.4	4.70	2.24	441.0	158.0	508.0	90.9	4.77	2.86	5.12	2.17	42.80	20.30	0.44
	9.0	17.1	12.0	6.0	21.8	4.77	2.30	502.0	181.0	579.0	104.0	4.79	2.88	5.15	2.18	49.10	23.50	0.44
	10.0	19.0	13.0	6.5	24.2	4.80	2.34	552.0	198.0	635.0	114.0	4.78	2.86	5.13	2.17	54.10	25.80	0.44
	12.0	22.4	12.0	8.5	28.6	4.88	2.41	642.0	228.0	738.0	132.0	4.74	2.83	5.08	2.15	63.40	30.10	0.44
	14.0	26.1	12.0	6.0	33.2	4.98	2.50	744.0	265.0	856.0	153.0	4.74	2.82	5.08	2.15	74.30	35.30	0.43
	15.0	27.7	12.0	8.5	35.2	5.01	2.53	781.0	276.0	897.0	161.0	4.71	2.80	5.04	2.14	78.20	37.00	0.43
200 x 100	10.0	23.0	15.0	4.8	29.4	6.95	2.03	1,233.0	215.0	1,309.0	138.0	6.48	2.70	6.68	2.17	94.50	27.00	0.26
	12.0	27.3	15.0	4.8	34.9	7.04	2.11	1,454.0	252.0	1,544.0	162.0	6.45	2.68	6.65	2.16	112.00	31.90	0.26
	14.0	31.6	15.0	7.5	40.3	7.12	2.18	1,654.0	282.0	1,755.0	182.0	6.41	2.65	6.60	2.12	128.00	36.10	0.26
	15.0	33.7	15.0	4.8	43.1	7.17	2.23	1,772.0	303.0	1,879.0	197.0	6.41	2.65	6.60	2.14	138.00	39.00	0.26
200 x 150	12.0	32.0	15.0	4.8	40.9	6.10	3.63	1,667.0	813.0	2,046.0	434.0	6.38	4.45	7.07	3.26	120.00	71.50	0.55
	15.0	39.6	15.0	4.8	50.6	6.22	3.75	2,037.0	989.0	2,496.0	530.0	6.34	4.42	7.02	3.23	148.00	87.90	0.55
	18.0	47.4	15.0	4.8	60.1	6.34	3.86	2,390.0	1,155.0	2,923.0	622.0	6.30	4.38	6.97	3.22	175.00	104.00	0.55

Material Spec: EN10025 S275JR
BS4360 Gr43A
JIS G3101 SS400