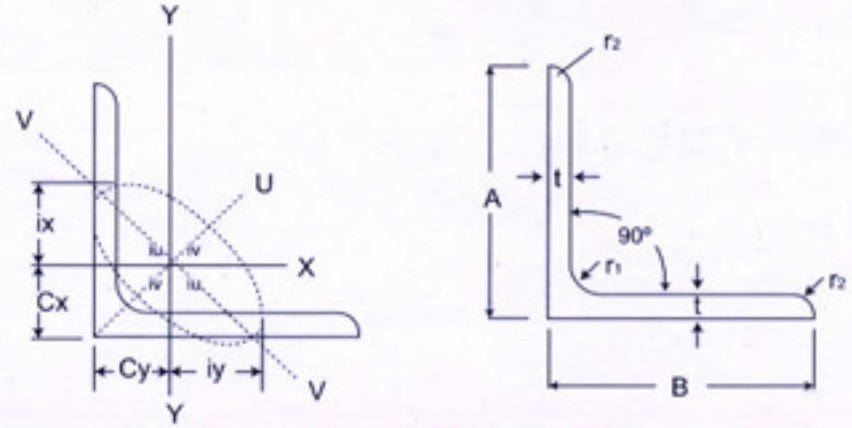


EQUAL ANGLES



The cross-section of a steel angle is like a capital letter "L". Two types of angles are made: Equal angles and Unequal angles. They are classified according to their web height, flange width, web thickness and flange thickness. The Equal angle has flanges of equal dimensions and a simple shape, making it very easy to use in construction work in combination with other structural members in terms of production tonnage, angles rank second only to wide-flange beams among all steel shapes.

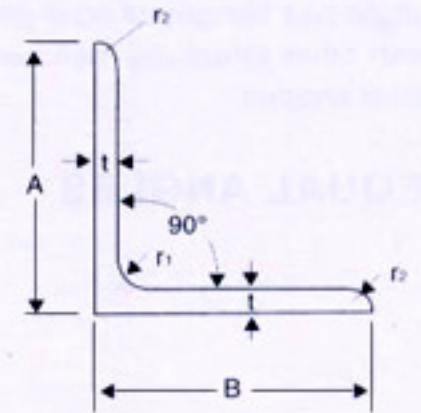
EQUAL ANGLES



Size	Leg Length		Thickness		Corner Radius				Sectional Area		Weight		
	A-B		t		r ₁		r ₂						
AxBxt	mm	in	mm	in	mm	in	mm	in	cm ²	in ²	kg/m	kg/ft	lb/ft
20x20x3	20	0.787	3	.118	4	.157	2	.0787	1.127	.1756	.885	.270	0.595
25x25x3	25	0.984	3	.118	4	.157	2	.0787	1.427	.2212	1.12	.341	0.753
25x25x5	25	0.984	5	.197	4	.157	3	.1180	2.246	.3481	1.76	.537	1.183
30x30x3	30	1.181	3	.118	4	.157	2	.0787	1.727	.2677	1.36	.413	0.914
30x30x5	30	1.181	5	.197	4	.157	3	.1180	2.746	.4256	2.16	.657	1.451
35x35x3	35	1.378	3	.118	4.5	.177	2	.0787	2.036	.3156	1.60	.487	1.075
35x35x5	35	1.378	5	.197	4.5	.177	3	.1180	3.255	.5045	2.56	.779	1.720
40x40x3	40	1.575	3	.118	4.5	.177	2	.0787	2.336	.3621	1.83	.559	1.230
40x40x5	40	1.575	5	.197	4.5	.177	3	.1180	3.755	.5820	2.95	.899	1.982
45x45x4	45	1.772	4	.157	6.5	.256	3	.118	3.492	.5413	2.74	.836	1.843
45x45x6	45	1.772	6	.236	6.5	.256	4.5	.177	5.044	.7818	3.96	1.21	2.668
45x45x8	45	1.772	8	.315	6.5	.256	4.5	.177	6.564	1.017	5.15	1.57	3.461
50x50x4	50	1.969	4	.157	6.5	.256	3	.118	3.892	.6033	3.06	.931	2.052
50x50x6	50	1.969	6	.236	6.5	.256	4.5	.177	5.644	.8748	4.43	1.35	2.976
50x50x8	50	1.969	8	.315	6.5	.256	4.5	.177	7.364	1.141	5.78	1.76	3.884
60x60x5	60	2.362	5	.197	6.5	.256	3	.118	5.802	.8993	4.55	1.39	3.064
60x60x7	60	2.362	7	.276	6.5	.256	4.5	.177	7.914	1.227	6.21	1.89	4.729
60x60x9	60	2.362	9	.354	6.5	.256	4.5	.177	9.994	1.549	7.85	2.39	5.275
65x65x6	65	2.559	6	.236	8.5	.335	4	.157	7.527	1.167	5.91	1.80	3.968
65x65x8	65	2.559	8	.315	8.5	.335	6	.236	9.761	1.513	7.66	2.34	5.159
65x65x10	65	2.559	10	.394	8.5	.335	6	.236	12.00	1.860	9.42	2.87	6.330
70x70x6	70	2.756	6	.236	8.5	.335	4	.157	8.127	1.260	6.38	1.94	4.276
70x70x8	70	2.756	8	.315	8.5	.335	6	.236	10.560	1.637	8.29	2.53	5.571
70x70x10	70	2.756	10	.394	8.5	.335	6	.236	13.000	2.015	10.2	3.11	6.854

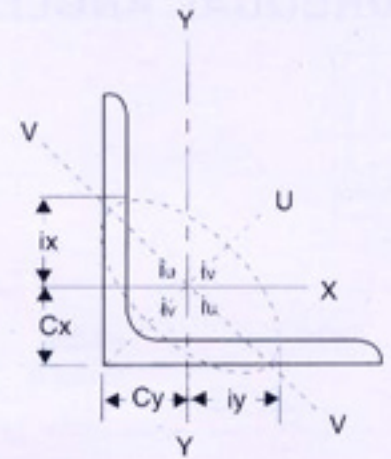
Centre of Gravity		Moment of Inertia						Radius of Gyration						Modulus of Section		Size
Cx-Cy		Jx-Jy		Min J _x		Min J _y		ix-iy		Min i _x		Min i _y		Zx-Zy		AxBxt
cm	in	cm ⁴	in ⁴	cm ⁴	in ⁴	cm ⁴	in ⁴	cm	in	cm	in	cm	in	cm ³	in ³	
.60	.236	.39	.009	.61	.015	.16	.004	.59	.232	.74	.291	.38	.150	.28	.0171	20x20x3
.72	.283	.80	.019	1.26	.030	.33	.008	.75	.295	.94	.370	.48	.189	.45	.0275	25x25x3
.79	.311	1.18	.028	1.85	.045	.51	.012	.72	.284	.91	.358	.48	.189	.69	.0421	25x25x5
.85	.335	1.42	.034	2.26	.054	.59	.014	.91	.358	1.14	.449	.58	.228	.66	.0403	30x30x3
.92	.362	2.14	.051	3.37	.081	.91	.022	.88	.347	1.11	.437	.57	.224	1.03	.0629	30x30x5
.97	.382	2.32	.056	3.68	.088	.96	.023	1.07	.421	1.34	.528	.69	.272	.92	.0561	35x35x3
1.04	.409	3.53	.085	5.85	.134	1.47	.035	1.04	.410	1.31	.516	.67	.264	1.44	.0879	35x35x5
1.09	.429	3.53	.085	5.60	.135	1.45	.035	1.23	.484	1.55	.610	.79	.311	1.21	.0738	40x40x3
1.17	.461	5.42	.130	8.59	.206	2.25	.054	1.20	.472	1.51	.595	.77	.303	1.91	.117	40x40x5
1.24	.488	6.50	.156	10.3	.247	2.69	.065	1.36	.535	1.72	.677	.88	.347	2.00	.122	45x45x4
1.32	.520	9.00	.214	14.2	.341	3.75	.090	1.34	.528	1.68	.661	.86	.339	2.83	.173	45x45x6
1.40	.551	11.2	.269	18.0	.432	4.44	.107	1.31	.516	1.65	.650	.82	.323	3.61	.220	45x45x8
1.37	.539	9.06	.218	14.4	.346	3.74	.090	1.53	.602	1.92	.756	.98	.386	2.49	.152	50x50x4
1.44	.567	12.6	.303	20.0	.481	5.24	.126	1.50	.591	1.88	.740	.96	.378	3.55	.217	50x50x6
1.52	.598	16.1	.387	25.4	.610	6.78	.163	1.48	.583	1.86	.732	.96	.378	4.62	.282	50x50x8
1.66	.654	19.6	.471	31.2	.750	8.06	.194	1.84	.724	2.32	.913	1.18	.465	4.52	.276	60x60x5
1.73	.681	25.9	.622	41.0	.985	10.7	.257	1.81	.713	2.28	.898	1.16	.457	6.06	.370	60x60x7
1.81	.713	31.9	.766	50.5	1.213	13.4	.322	1.79	.705	2.25	.886	1.16	.457	7.62	.465	60x60x9
1.81	.713	29.4	.706	46.6	1.120	12.1	.291	1.98	.780	2.49	.980	1.27	.500	6.27	.383	65x65x6
1.88	.740	36.8	.884	58.3	1.401	15.3	.368	1.94	.764	2.44	.961	1.25	.492	7.97	.486	65x65x8
1.96	.772	44.4	1.067	70.2	1.687	18.7	.449	1.92	.756	2.42	.953	1.25	.492	9.79	.597	65x65x10
1.94	.764	37.1	.891	58.9	1.415	15.3	.368	2.14	.843	2.69	1.059	1.37	.539	7.33	.447	70x70x6
2.01	.791	46.6	1.119	74.0	1.778	19.3	.464	2.10	.827	2.65	1.043	1.35	.531	9.34	.570	70x70x8
2.09	.823	56.4	1.355	89.3	2.454	23.6	.567	2.08	.819	2.62	1.031	1.35	.531	11.5	.702	70x70x10

EQUAL ANGLES



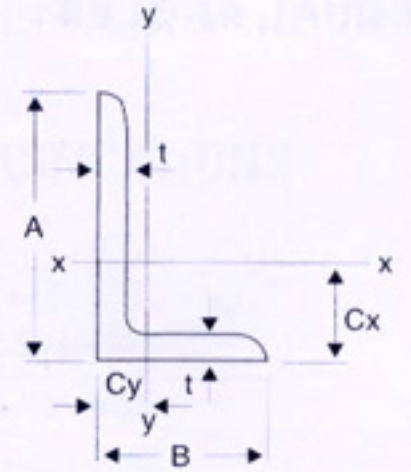
Size AxBxt	Leg Length A-B		Thickness t		Corner Radius				Sectional Area		Weight		
	mm	in	mm	in	mm	in	mm	in	cm ²	in ²	kg/m	kg/ft	lb/ft
75x75x6	75	2.953	6	.236	8.5	.335	4	.157	8.727	1.363	6.85	2.09	4.608
75x75x9	75	2.953	9	.354	8.5	.335	6	.236	12.69	1.967	9.96	3.04	6.702
75x75x12	75	2.953	12	.472	8.5	.335	6	.236	16.56	2.567	13.0	3.96	8.730
80x80x6	80	3.150	6	.236	8.5	.335	4	.157	9.327	1.446	7.32	2.23	4.916
80x80x9	80	3.150	9	.354	8.5	.335	6	.236	13.59	2.106	10.7	3.25	7.190
80x80x12	80	3.150	12	.472	8.5	.335	6	.236	17.76	2.753	13.9	4.25	9.340
90x90x7	90	3.543	7	.276	10	.394	5	.197	12.22	1.894	9.59	2.92	6.437
90x90x10	90	3.543	10	.394	10	.394	7	.276	17.00	2.635	13.3	4.07	8.973
90x90x13	90	3.543	13	.512	10	.394	7	.276	21.71	3.365	17.0	5.20	11.464
100x100x7	100	3.937	7	.276	10	.394	5	.197	13.62	2.111	10.7	3.26	7.187
100x100x8	100	3.937	8	.315	10	.394	5	.197	15.47	2.398	12.1	3.69	8.131
100x100x10	100	3.937	10	.394	10	.394	7	.276	19.00	2.945	14.9	4.55	10.031
100x100x13	100	3.937	13	.512	10	.394	7	.276	24.31	3.768	19.1	5.82	12.830
130x130x9	130	5.118	9	.354	12	.472	6	.236	22.74	3.525	17.9	5.44	11.99
130x130x12	130	5.118	12	.472	12	.472	8.5	.335	29.76	4.613	23.4	7.12	15.70
130x130x15	130	5.118	15	.591	12	.472	8.5	.335	36.75	5.696	28.8	8.79	19.38
150x150x11	150	5.906	11	.433	14	.551	7	.276	32.00	4.960	25.1	7.66	16.87
150x150x12	150	5.906	12	.472	14	.551	7	.276	34.77	5.357	27.3	8.32	18.34
150x150x15	150	5.906	15	.591	14	.551	10	.394	42.74	6.625	33.6	10.2	22.48
150x150x19	150	5.906	19	.748	14	.551	10	.394	53.38	8.274	41.9	12.8	28.21
200x200x15	200	7.874	15	.591	17	.669	12	.472	57.75	8.951	45.3	13.8	30.42
200x200x20	200	7.874	20	.787	17	.669	12	.472	76.00	11.780	59.7	18.2	40.12
200x200x25	200	7.874	25	.984	17	.669	12	.472	93.75	14.58	73.6	22.4	49.38
200x200x29	200	7.874	29	1.142	17	.669	12	.472	107.6	16.68	84.5	25.8	56.78

EQUAL ANGLES



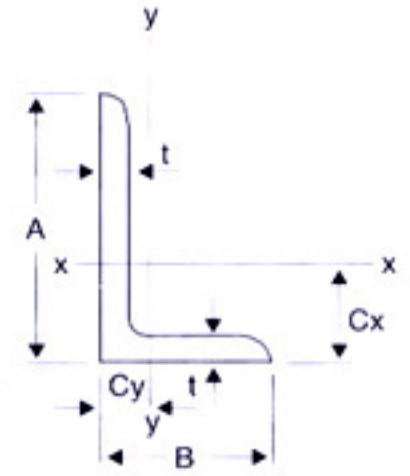
Centre of Gravity		Moment of Inertia						Radius of Gyration						Modulus of Section		Size
Cx-Cy		Jx-Jy		Max Ju		Min Jv		ix-iy		Max i _u		Min i _v		Zx-Zy		AxBxt
cm	in	cm ⁴	in ⁴	cm ⁴	in ⁴	cm ⁴	in ⁴	cm	in	cm	in	cm	in	cm ³	in ³	
2.06	.811	46.1	1.108	73.2	1.759	19.0	.457	2.30	.906	2.90	1.142	1.47	.579	8.41	.517	75x75x6
2.17	.854	64.4	1.547	102	2.505	26.7	.642	2.25	.886	2.84	1.118	1.45	.571	12.1	.738	75x75x9
2.29	.902	81.9	1.967	129	3.992	24.5	.829	2.22	.874	2.79	1.098	1.44	.567	15.7	.958	75x75x12
2.19	.862	56.4	1.355	89.6	2.153	23.2	.557	2.46	.969	3.10	1.220	1.58	.622	9.70	.592	80x80x6
2.30	.906	79.2	1.903	126	3.027	32.7	.786	2.41	.949	3.04	1.200	1.55	.610	13.9	.848	80x80x9
2.41	.949	101	2.427	160	3.044	42.2	1.014	2.38	.937	3.00	1.181	1.54	.606	18.1	1.105	80x80x12
2.46	.969	93.0	2.234	148	3.557	28.3	.920	2.76	1.087	3.48	1.370	1.77	.697	14.2	.867	90x90x7
2.58	1.016	125	3.003	199	4.781	51.6	1.240	2.71	1.067	3.42	1.346	1.74	.685	19.5	1.190	90x90x10
2.69	1.059	156	3.748	248	5.958	65.3	1.569	2.68	1.055	3.38	1.331	1.73	.681	24.8	1.513	90x90x13
2.71	1.067	129	3.099	205	4.925	53.1	1.276	3.08	1.213	3.88	1.528	1.97	.776	17.7	1.080	100x100x7
2.75	1.083	146	3.508	234	5.622	58.7	1.410	3.07	1.209	3.89	1.531	1.95	.768	20.1	1.226	100x100x8
2.83	1.114	175	4.204	278	6.679	71.9	1.727	3.03	1.193	3.83	1.508	1.95	.768	24.4	1.489	100x100x10
2.94	1.157	220	5.285	348	8.361	91.0	2.186	3.00	1.181	3.78	1.488	1.93	.760	31.1	1.898	100x100x13
3.53	1.390	366	8.793	583	14.01	150	3.604	4.01	1.579	5.06	1.992	2.57	1.012	38.7	2.362	130x130x9
3.64	1.433	467	11.220	743	17.85	192	4.613	3.96	1.559	5.00	1.969	2.54	1.000	49.9	3.045	130x130x12
3.76	1.480	568	13.646	902	21.67	234	5.622	3.93	1.547	4.95	1.949	2.53	.996	61.5	3.753	130x130x15
4.10	1.614	684	16.433	1090	26.19	280	6.727	4.62	1.819	5.83	2.295	2.96	1.165	62.8	3.832	150x150x11
4.14	1.630	740	17.778	1176	28.25	304	7.304	4.61	1.815	5.82	2.291	2.96	1.165	68.2	4.162	150x150x12
4.24	1.669	888	21.334	1410	33.88	365	8.769	4.56	1.795	5.75	2.264	2.92	1.150	82.6	5.040	150x150x15
4.40	1.732	1090	26.187	1730	41.56	451	10.84	4.52	1.780	5.69	2.240	2.91	1.146	103	6.285	150x150x19
5.47	2.154	2180	52.374	3470	83.37	891	21.47	6.14	2.417	7.75	3.051	3.93	1.547	150	9.153	200x200x15
5.67	2.232	2820	67.750	4490	107.9	1160	27.87	6.09	2.398	7.68	3.024	3.90	1.535	197	12.022	200x200x20
5.87	2.311	3420	82.165	5420	130.2	1410	33.88	6.04	2.378	7.61	2.996	3.88	1.528	242	14.768	200x200x25
6.01	2.366	3870	92.973	6120	146.7	1610	38.68	5.99	2.358	7.54	2.968	3.87	1.524	276	16.842	200x200x29

UNEQUAL ANGLES



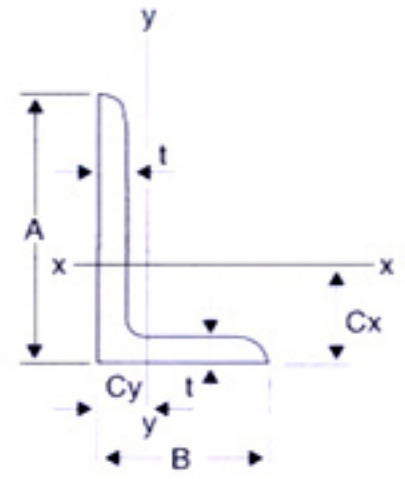
Section Size	Thickness		Unit Weight		Leg Length				Corner Radius				Section Area		Centre of Gravity			
	t		M		A		B		r ¹		r ²		A		C _x		C _y	
A x B x t	mm	in	kg/ m	lb/ ft	mm	in	mm	in	mm	in	mm	in	cm ²	in ²	cm	in	cm	in
40 x 20 x 3	3.0	.118	1.37	0.921	40	1.575	20	0.787	5.0	.197	2.0	.079	1.747	0.271	1.41	0.555	0.44	.173
40 x 20 x 5	5.0	.197	2.16	1.451	40	1.575	20	0.787	5.0	.197	3.5	.138	2.751	0.426	1.50	0.591	0.51	.201
50 x 35 x 4	4.0	.157	2.58	1.734	50	1.969	35	1.378	6.5	.256	3.0	.118	3.292	0.510	1.58	0.622	0.85	.335
50 x 35 x 6	6.0	.236	3.72	2.500	50	1.969	35	1.378	6.5	.256	4.5	.177	4.744	0.735	1.66	0.654	0.92	.362
60 x 50 x 5	5.0	.197	4.16	2.795	60	2.362	50	1.969	6.5	.256	3.0	.118	5.302	0.822	1.79	0.705	1.30	.512
60 x 50 x 7	7.0	.276	5.66	3.803	60	2.362	50	1.969	6.5	.256	4.5	.177	7.214	1.118	1.87	0.736	1.37	.539
65 x 50 x 5	5.0	.197	4.36	2.930	65	2.559	50	1.969	6.5	.256	3.0	.118	5.552	0.861	1.99	0.783	1.25	.492
65 x 50 x 7	7.0	.276	5.94	3.992	65	2.559	50	1.969	6.5	.256	4.5	.177	7.564	1.172	2.07	0.815	1.33	.524
65 x 50 x 9	9.0	.354	7.49	5.033	65	2.559	50	1.969	6.5	.256	4.5	.177	9.544	1.479	2.14	0.843	1.40	.551
70 x 60 x 6	6.0	.236	5.91	3.971	70	2.756	60	2.362	8.5	.335	4.0	.157	7.527	1.167	2.07	0.815	1.58	.622
70 x 60 x 8	8.0	.315	7.66	5.147	70	2.756	60	2.362	8.5	.335	6.0	.236	9.761	1.513	2.14	0.843	1.65	.661
70 x 60 x 10	10.0	.394	9.42	6.330	70	2.756	60	2.362	8.5	.335	6.0	.236	12.00	1.860	2.24	0.874	1.73	.681
75 x 50 x 6	6.0	.236	5.67	3.810	75	2.953	50	1.969	8.5	.335	4.0	.157	7.227	1.120	2.43	0.975	1.20	.472
75 x 50 x 8	8.0	.315	7.35	4.939	75	2.953	50	1.969	8.5	.335	6.0	.236	9.261	1.451	2.50	0.984	1.27	.500
75 x 50 x 10	10.0	.394	9.03	6.068	75	2.953	50	1.969	8.5	.335	6.0	.236	11.50	1.782	2.58	1.016	1.35	.531
75 x 65 x 6	6.0	.236	6.38	4.287	75	2.953	65	2.559	8.5	.335	4.0	.157	8.127	1.260	2.19	0.862	1.70	.669
75 x 65 x 8	8.0	.315	8.29	5.571	75	2.953	65	2.559	8.5	.335	6.0	.236	10.56	1.637	2.26	0.890	1.77	.697
75 x 65 x 10	10.0	.394	10.2	6.854	75	2.953	65	2.559	8.5	.335	6.0	.236	13.00	2.015	2.34	0.921	1.85	.728
80 x 60 x 6	6.0	.236	6.38	4.287	80	3.150	60	2.362	8.5	.335	4.0	.157	8.127	1.260	2.46	0.969	1.48	.583
80 x 60 x 8	8.0	.315	8.29	5.571	80	3.150	60	2.362	8.5	.335	6.0	.236	10.56	1.637	2.54	1.000	1.55	.610
80 x 60 x 10	10.0	.394	10.2	6.854	80	3.150	60	2.362	8.5	.335	6.0	.236	13.00	2.015	2.62	1.031	1.63	.642
80 x 70 x 6	6.0	.236	6.85	4.603	80	3.150	70	2.756	8.5	.335	4.0	.157	8.727	1.353	2.32	0.913	1.83	.720
80 x 70 x 9	9.0	.354	9.96	6.693	80	3.150	70	2.756	8.5	.335	6.0	.236	12.69	1.967	2.43	0.957	1.93	.760
80 x 70 x 12	12.0	.472	13.0	8.736	80	3.150	70	2.756	8.5	.335	6.0	.236	16.56	2.567	2.54	1.000	2.05	.807
90 x 60 x 6	6.0	.236	6.85	4.603	90	3.543	60	2.362	8.5	.335	4.0	.157	8.727	1.353	2.88	1.134	1.40	.551
90 x 60 x 9	9.0	.354	9.96	6.693	90	3.543	60	2.362	8.5	.335	6.0	.236	12.69	1.967	2.99	1.177	1.51	.594
90 x 60 x 12	12.0	.472	13.0	8.736	90	3.543	60	2.362	8.5	.335	6.0	.236	16.56	2.567	3.11	1.244	1.63	.642
90 x 75 x 6	6.0	.236	7.56	5.080	90	3.543	75	2.953	8.5	.335	4.0	.157	9.626	1.492	2.64	1.039	1.90	.748
90 x 75 x 9	9.0	.354	11.0	7.392	90	3.543	75	2.953	8.5	.335	6.0	.236	14.04	2.176	2.75	1.083	2.01	.791
90 x 75 x 12	12.0	.472	14.4	9.676	90	3.543	75	2.953	8.5	.335	6.0	.236	18.36	2.846	2.87	1.130	2.12	.835

UNEQUAL ANGLES



Moment of Inertia								Radius of Gyration								tan a	Modulus of Section				Section Size A x B x t
Ix		Iy		Max Iu		Min Iv		ix		iy		Max iu		Max iv			Zx		Zy		
cm ⁴	in ⁴	cm ⁴	in ⁴	cm ⁴	in ⁴	cm ⁴	in ⁴	cm	in	cm	in	cm	in	cm	in	cm ³	in ³	cm ³	in ³		
2.81	0.068	0.47	.011	2.98	0.072	0.31	.007	1.27	.500	.52	.205	1.31	0.516	0.42	.165	.257	1.09	.067	0.30	.018	40 x 20 x 3
4.21	0.110	0.68	.016	4.43	0.106	0.41	.010	1.24	.488	.50	.197	1.27	0.500	0.41	.161	.243	1.68	.103	0.46	.208	40 x 20 x 5
8.08	0.194	3.25	.078	9.49	0.228	1.84	.044	1.57	.618	.99	.390	1.70	0.669	0.75	.295	.475	2.36	.144	1.23	.075	50 x 35 x 4
12.2	0.269	4.43	.106	13.1	0.315	2.55	.061	1.54	.606	.97	.382	1.66	0.654	0.73	.287	.466	3.35	.204	1.72	.105	50 x 35 x 6
18.5	0.445	11.7	.281	24.4	0.586	5.82	.140	1.87	.736	1.48	.583	2.14	0.843	1.05	.413	.679	4.40	.269	3.16	.193	60 x 50 x 5
24.4	0.586	15.2	.365	31.9	0.766	7.68	.185	1.84	.724	1.45	.571	2.10	0.827	1.03	.406	.673	5.89	.359	4.20	.256	60 x 50 x 7
23.2	0.557	11.9	.286	28.8	0.692	6.33	.152	2.04	.803	1.47	.579	2.28	0.898	1.07	.421	.577	5.14	.314	3.19	.195	65 x 50 x 5
30.6	0.735	15.6	.375	37.9	0.911	8.35	.201	2.01	.791	1.44	.567	2.24	0.882	1.05	.413	.571	6.90	.421	4.25	.259	65 x 50 x 7
37.8	0.908	19.2	.461	46.6	1.120	10.4	.250	1.99	.783	1.42	.559	2.21	0.870	1.05	.413	.565	8.69	.530	5.33	.325	65 x 50 x 9
35.3	0.848	23.9	.574	47.6	1.144	11.7	.281	2.17	.854	1.78	.701	2.15	0.988	1.24	.488	.719	7.17	.438	5.40	.330	70 x 60 x 6
44.4	1.067	29.8	.716	59.5	1.429	14.7	.353	2.13	.839	1.75	.689	2.47	0.872	1.23	.484	.714	9.13	.457	6.85	.418	70 x 60 x 8
53.6	1.288	36.0	.865	71.7	1.723	17.9	.430	2.11	.831	1.73	.681	2.44	0.961	1.22	.480	.711	11.2	.683	8.41	.513	70 x 60 x 10
40.4	0.971	14.4	.346	46.4	1.115	8.33	.200	2.36	.929	1.41	.555	2.53	0.996	1.07	.421	.434	7.97	.486	3.78	.231	75 x 50 x 6
50.8	1.221	17.8	.428	58.1	1.396	10.4	.250	2.33	.917	1.38	.543	2.49	0.980	1.05	.413	.427	10.2	.622	4.77	.291	75 x 50 x 8
61.4	1.475	21.4	.514	70.0	1.682	12.7	.257	2.31	.909	1.36	.535	2.47	0.972	1.05	.413	.421	12.5	.763	5.85	.357	75 x 50 x 10
44.1	1.060	30.7	.738	49.9	1.439	14.8	.356	2.33	.917	1.94	.764	2.72	1.071	1.35	.531	.737	8.30	.506	6.39	.523	75 x 65 x 6
55.5	1.333	38.4	.923	75.3	1.809	18.6	.447	2.29	.902	1.91	.752	2.67	1.051	1.33	.524	.733	10.6	.647	8.13	.496	75 x 65 x 8
67.3	1.617	46.5	1.117	91.0	2.186	22.8	.548	2.27	.894	1.89	.744	2.65	1.043	1.32	.520	.730	13.0	.793	9.99	.610	75 x 65 x 10
51.5	1.237	24.8	.596	62.9	1.511	13.4	.322	2.52	.992	1.75	.689	2.78	1.094	1.28	.504	.548	9.30	.568	5.50	.336	80 x 60 x 6
65.0	1.562	31.0	.745	79.1	1.900	16.9	.406	2.48	.976	1.71	.673	2.74	1.079	1.26	.496	.542	11.9	.726	6.97	.425	80 x 60 x 8
78.7	1.891	37.4	.899	95.6	2.297	20.5	.493	2.46	.969	1.70	.669	2.52	0.992	1.26	.496	.538	14.6	.891	8.55	.522	80 x 60 x 10
54.1	1.300	38.6	.927	75.3	1.785	18.4	.442	2.49	.980	2.10	.827	2.92	1.150	1.45	.571	.752	9.52	.581	7.46	.455	80 x 70 x 6
75.8	1.821	53.8	1.293	104	2.499	25.9	.622	2.44	.961	2.06	.811	2.86	1.126	1.43	.563	.748	13.6	.830	10.6	.647	80 x 70 x 9
96.6	1.321	68.3	1.641	131	3.147	33.4	.802	2.41	.949	2.03	.799	2.82	1.110	1.42	.559	.744	17.7	1.080	13.8	.842	80 x 70 x 12
71.5	1.718	23.6	.651	82.3	1.977	14.8	.356	2.86	1.126	1.71	.674	3.07	1.209	1.30	.521	.437	11.7	.714	5.47	.340	90 x 60 x 6
101	2.427	35.4	.850	115	2.763	20.7	.497	2.82	1.110	1.67	.657	3.01	1.185	1.28	.504	.430	16.7	1.091	7.90	.482	90 x 60 x 9
128	3.075	44.8	1.076	146	2.508	26.7	.641	2.78	1.094	1.65	.650	2.97	1.169	1.27	.500	.423	21.8	1.330	10.2	.622	90 x 60 x 12
76.9	1.848	48.6	1.168	101	2.427	24.2	.581	2.83	1.114	2.25	.886	3.25	1.280	1.58	.622	.681	12.1	.738	8.68	.530	90 x 75 x 6
109	2.619	68.1	1.636	143	3.436	34.1	.819	2.78	1.094	2.20	.866	3.19	1.257	1.56	.614	.676	17.4	1.062	12.4	.757	90 x 75 x 9
139	3.340	86.8	2.085	182	4.373	44.0	1.057	2.75	1.083	2.17	.854	3.14	1.236	1.55	.610	.672	22.6	1.379	16.1	.982	90 x 75 x 12

UNEQUAL ANGLES



Section Size A x B x t	Thickness t		Unit Weight M		Leg Length				Corner Radius				Section Area A		Centre of Gravity			
	mm	in	kg/m	lb/ft	A		B		r ¹		r ²		cm ²	in ²	Cx		Cy	
	mm	in	kg/m	lb/ft	mm	in	mm	in	mm	in	mm	in	cm ²	in ²	cm	in	cm	in
90 x 80 x 7	7	.276	9.04	6.075	90	3.543	80	3.150	10	.394	5.0	.197	11.52	1.786	2.59	1.020	2.10	.827
90 x 80 x 10	10	.394	12.6	8.467	90	3.543	80	3.150	10	.394	7.0	.276	16.00	2.480	2.71	1.067	2.21	.870
90 x 80 x 13	13	.512	16.0	10.751	90	3.543	80	3.150	10	.394	7.0	.276	20.41	3.164	2.82	1.110	2.33	.917
100 x 65 x 7	7	.276	8.77	5.893	100	3.937	65	2.559	10	.394	5.0	.197	11.17	1.731	3.23	1.272	1.52	.598
100 x 65 x 8	8	.315	9.94	6.679	100	3.937	65	2.559	10	.394	4.8	.189	12.70	1.984	3.27	1.287	1.55	.610
100 x 65 x 9	9	.354	11.0	7.392	100	3.937	65	2.559	10	.394	7.0	.276	14.04	2.176	3.31	1.303	1.52	.626
100 x 65 x 10	10	.394	12.3	8.265	100	3.937	65	2.559	10	.394	4.8	.189	15.60	2.418	3.36	1.323	1.63	.642
100 x 65 x 12	12	.472	14.4	9.676	100	3.937	65	2.559	10	.394	7.0	.276	18.36	2.846	3.43	1.350	1.70	.669
100 x 75 x 7	7	.276	9.32	6.263	100	3.937	75	2.953	10	.394	5.0	.197	11.87	1.840	3.06	1.205	1.84	.724
100 x 75 x 8	8	.315	10.6	7.123	100	3.937	75	2.953	10	.394	4.8	.189	13.50	2.093	3.10	1.220	1.87	.736
100 x 75 x 10	10	.394	13.0	8.736	100	3.937	75	2.953	10	.394	7.0	.276	16.50	2.557	3.18	1.252	1.95	.764
100 x 75 x 12	12	.472	15.4	10.348	100	3.937	75	2.953	10	.394	4.8	.189	19.70	3.054	3.27	1.287	2.03	.799
100 x 75 x 13	13	.512	16.5	11.087	100	3.937	75	2.953	10	.394	7.0	.276	21.06	3.264	3.30	1.300	2.06	.811
100 x 80 x 7	7	.276	9.59	6.444	100	3.937	80	3.150	10	.394	5.0	.196	12.22	1.894	2.98	1.173	2.00	.787
100 x 80 x 10	10	.394	13.3	8.937	100	3.937	80	3.150	10	.394	7.0	.276	17.00	2.635	3.10	1.220	2.11	.831
100 x 80 x 13	13	.512	17.0	11.423	100	3.937	80	3.150	10	.394	7.0	.276	21.71	3.365	3.22	1.268	2.23	.878
100 x 90 x 7	7	.276	10.1	6.787	100	3.937	90	3.543	10	.394	5.0	.197	12.92	2.003	2.84	1.118	2.35	.925
100 x 90 x 10	10	.394	14.1	9.475	100	3.937	90	3.543	10	.394	7.0	.276	18.00	2.790	2.96	1.165	2.46	.969
100 x 90 x 13	13	.512	18.1	12.162	100	3.937	90	3.543	10	.394	7.0	.276	23.01	3.567	3.07	1.209	2.58	1.016
125 x 75 x 6.5	6.5	.256	9.98	6.706	125	4.921	75	2.953	11	.433	4.8	.189	12.70	1.968	4.06	1.599	1.61	.634
125 x 75 x 7	7	.276	10.7	7.190	125	4.921	75	2.953	10	.394	5.0	.197	13.62	2.111	4.10	1.615	1.64	.646
125 x 75 x 8	8	.315	12.2	8.198	125	4.921	75	2.953	11	.433	4.8	.189	15.50	2.403	4.14	1.630	1.68	.661
125 x 75 x 10	10	.394	15.0	10.012	125	4.921	75	2.953	10	.394	7.0	.276	19.00	2.945	4.23	1.665	1.75	.689
125 x 75 x 12	12	.472	17.8	11.961	125	4.921	75	2.953	11	.433	4.8	.189	22.70	3.519	4.31	1.697	1.84	.724
125 x 75 x 13	13	.512	19.1	12.835	125	4.921	75	2.953	10	.394	7.0	.276	24.31	3.768	4.35	1.713	1.87	.736
125 x 90 x 7	7	.276	11.5	7.728	125	4.921	90	3.543	10	.394	5.0	.197	14.67	2.274	3.84	1.512	2.11	.831
125 x 90 x 10	10	.394	16.1	10.819	125	4.921	90	3.543	10	.394	7.0	.276	20.50	3.177	3.95	1.555	2.22	.874
125 x 90 x 13	13	.512	20.6	13.843	125	4.921	90	3.543	10	.394	7.0	.276	26.26	4.070	4.08	1.606	2.34	.921
137 x 102 x 6.4	6.4	.252	11.7	7.862	137	5.394	102	4.016	11	.433	4.8	.189	14.80	2.294	4.09	1.610	2.36	.929
137 x 102 x 7.9	7.9	.311	14.5	9.744	137	5.394	102	4.016	11	.433	4.8	.189	18.40	2.852	4.17	1.642	2.44	.961
137 x 102 x 9.5	9.5	.374	17.3	11.625	137	5.394	102	4.016	11	.433	4.8	.189	21.90	3.395	4.22	1.661	2.49	.980
150 x 75 x 7	7	.276	12.1	8.131	150	5.906	75	2.953	12	.472	5.0	.197	15.46	2.396	5.17	2.035	1.50	.591
150 x 75 x 9	9	.354	15.3	10.281	150	5.906	75	2.953	12	.472	8.5	.335	19.44	3.013	5.25	2.067	1.56	.614
150 x 75 x 10	10	.394	17.0	11.423	150	5.906	75	2.953	11	.433	4.8	.189	21.60	3.348	5.32	2.094	1.61	.634
150 x 75 x 12	12	.472	20.1	13.574	150	5.906	75	2.953	12	.472	8.5	.335	25.56	3.962	5.39	2.122	1.68	.661
150 x 75 x 15	15	.591	24.8	16.665	150	5.906	75	2.953	11	.433	4.8	.189	31.60	4.898	5.53	2.177	1.81	.713
150 x 90 x 9	9	.354	16.4	11.020	150	5.906	90	3.543	12	.472	6.0	.236	20.94	3.246	4.96	1.953	2.00	.787
150 x 90 x 10	10	.394	18.2	12.230	150	5.906	90	3.543	12	.472	4.8	.189	23.20	3.596	5.00	1.969	2.04	.803
150 x 90 x 12	12	.472	21.6	14.515	150	5.906	90	3.543	12	.472	8.5	.335	27.36	4.241	5.07	1.996	2.10	.828
150 x 90 x 15	15	.591	26.6	17.874	150	5.906	90	3.543	12	.472	8.5	.335	33.75	5.231	5.20	2.047	2.22	.874
150 x 100 x 9	9	.354	17.1	11.490	150	5.906	100	3.937	12	.472	6.0	.236	21.84	3.385	4.77	1.878	2.32	.913
150 x 100 x 12	12	.472	22.4	15.052	150	5.906	100	3.937	12	.472	8.5	.335	28.56	4.427	4.88	1.921	2.41	.949
150 x 100 x 15	15	.591	27.7	18.614	150	5.906	100	3.937	12	.472	8.5	.335	35.25	5.464	5.10	1.972	2.53	.996
175 x 90 x 9	9	.354	18.2	12.230	175	6.890	90	3.543	12	.472	6.0	.236	23.19	3.594	6.04	2.373	1.85	.728
175 x 90 x 12	12	.472	23.8	15.993	175	6.890	90	3.543	12	.472	8.5	.335	30.36	4.706	6.16	2.425	1.96	.772
175 x 90 x 15	15	.591	29.4	19.756	175	6.890	90	3.543	12	.472	8.5	.335	37.50	5.812	6.29	2.476	2.08	.819
200 x 100 x 10	10	.394	23.0	15.455	200	7.874	100	3.937	15	.591	4.8	.189	29.20	4.526	6.93	2.728	2.01	.791
200 x 100 x 12	12	.472	27.3	18.345	200	7.874	100	3.937	15	.591	4.8	.189	34.80	5.394	7.03	2.768	2.10	.827
200 x 100 x 15	15	.591	33.7	22.645	200	7.874	100	3.937	15	.591	4.8	.189	43.00	6.665	7.16	2.819	2.22	.874
200 x 150 x 12	12	.472	32.0	21.503	200	7.874	150	5.906	15	.591	4.8	.189	40.80	6.324	6.08	2.394	3.61	1.421
200 x 150 x 15	15	.591	39.6	26.610	200	7.874	150	5.906	15	.591	4.8	.189	50.50	7.828	6.21	2.445	3.73	1.469
200 x 150 x 18	18	.709	47.1	31.650	200	7.874	150	5.906	15	.591	4.8	.189	60.00	9.300	6.33	2.492	3.85	1.516

