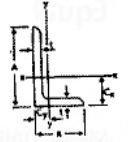
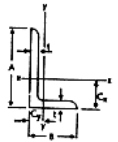


Unequal



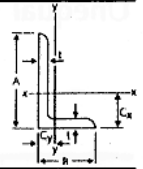
Section Size A x B x t	Thickness		Unit Weight		Leg Length				Corner radius				Section Area		Centre of Gravity			
	t		M		A		B		r1		r2		A		Cx		Cy	
	mm	in	kg/m	lb/ft	mm	in	mm	in	mm	in	mm	in	cm ²	in ²	cm	in	cm	in
40 x 20 x 3	3	0.118	1.37	0.921	40	1.575	20	0.787	5	0.197	2	0.079	1.747	0.271	1.41	0.555	0.44	0.173
40 x 20 x 5	5	0.197	2.16	1.451	40	1.575	20	0.787	5	0.197	3.5	0.138	2.751	0.426	1.50	0.591	0.51	0.201
50 x 35 x 4	4	0.157	2.58	1.734	50	1.969	35	1.378	6.5	0.256	3	0.118	3.292	0.510	1.58	0.622	0.85	0.335
50 x 35 x 6	6	0.236	3.72	2.500	50	1.969	35	1.378	6.5	0.256	4.5	0.177	4.744	0.735	1.66	0.654	0.92	0.362
60 x 50 x 5	5	0.197	4.16	2.795	60	2.362	50	1.969	6.5	0.256	3	0.118	5.302	0.822	1.79	0.705	1.30	0.512
60 x 50 x 7	7	0.276	5.66	3.803	60	2.362	50	1.969	6.5	0.256	4.5	0.177	7.214	1.118	1.87	0.736	1.37	0.539
65 x 50 x 5	5	0.197	4.36	2.930	65	2.559	50	1.969	6.5	0.256	3	0.118	5.552	0.861	1.99	0.783	1.25	0.492
65 x 50 x 7	7	0.276	5.94	3.992	65	2.559	50	1.969	6.5	0.256	4.5	0.177	7.564	1.172	2.07	0.815	1.33	0.524
65 x 50 x 9	9	0.354	7.49	5.033	65	2.559	50	1.969	6.5	0.256	4.5	0.177	9.544	1.479	2.14	0.843	1.40	0.551
70 x 60 x 6	6	0.236	5.91	3.971	70	2.756	60	2.362	8.5	0.335	4	0.157	7.527	1.167	2.07	0.815	1.58	0.622
70 x 60 x 8	8	0.315	7.66	5.147	70	2.756	60	2.362	8.5	0.335	6	0.236	9.761	1.513	2.14	0.843	1.65	0.661
70 x 60 x 10	10	0.394	9.42	6.33	70	2.756	60	2.362	8.5	0.335	6	0.236	12.00	1.86	2.24	0.874	1.73	0.681
75 x 50 x 6	6	0.236	5.67	3.810	75	2.953	50	1.969	8.5	0.335	4	0.157	7.227	1.120	2.43	0.957	1.20	0.472
75 x 50 x 8	8	0.315	7.35	4.939	75	2.953	50	1.969	8.5	0.335	6	0.236	9.261	1.451	2.50	0.984	1.27	0.500
75 x 50 x 10	10	0.394	9.03	6.068	75	2.953	50	1.969	8.5	0.335	6	0.236	11.50	1.782	2.58	1.016	1.35	0.531
75 x 65 x 6	6	0.236	6.38	4.287	75	2.953	65	2.559	8.5	0.335	4	0.157	8.127	1.260	2.19	0.862	1.70	0.669
75 x 65 x 8	8	0.315	8.29	5.571	75	2.953	65	2.559	8.5	0.335	6	0.236	10.56	1.637	2.26	0.890	1.77	0.697
75 x 65 x 10	10	0.394	10.2	6.854	75	2.953	65	2.559	8.5	0.335	6	0.236	13.00	2.015	2.34	0.921	1.85	0.728
80 x 60 x 6	6	0.236	6.38	4.287	80	3.15	60	2.362	8.5	0.335	4	0.157	8.127	1.260	2.46	0.969	1.48	0.583
80 x 60 x 8	8	0.315	8.29	5.571	80	3.15	60	2.362	8.5	0.335	6	0.236	10.56	1.637	2.54	1.000	1.55	0.610
80 x 60 x 10	10	0.394	10.2	6.854	80	3.15	60	2.362	8.5	0.335	6	0.236	13.00	2.015	2.62	1.031	1.63	0.642
80 x 70 x 6	6	0.236	6.85	4.603	80	3.15	70	2.756	8.5	0.335	4	0.157	8.727	1.353	2.32	0.913	1.83	0.72
80 x 70 x 9	9	0.354	9.96	6.693	80	3.15	70	2.756	8.5	0.335	6	0.236	12.69	1.967	2.43	0.957	1.93	0.76
80 x 70 x 12	12	0.472	13.0	8.736	80	3.15	70	2.756	8.5	0.335	6	0.236	16.56	2.567	2.54	1.00	2.05	0.807
90 x 60 x 6	6	0.236	6.85	4.603	90	3.543	60	2.362	8.5	0.335	4	0.157	8.727	1.353	2.88	1.134	1.40	0.551
90 x 60 x 9	9	0.354	9.96	6.693	90	3.543	60	2.362	8.5	0.335	6	0.236	12.69	1.967	2.99	1.177	1.51	0.594
90 x 60 x 12	12	0.472	13.0	8.736	90	3.543	60	2.362	8.5	0.335	6	0.236	16.56	2.567	3.11	1.244	1.63	0.642
90 x 75 x 6	6	0.236	7.56	5.08	90	3.543	75	2.953	8.5	0.335	4	0.157	9.626	1.492	2.64	1.039	1.90	0.748
90 x 75 x 9	9	0.354	11.0	7.392	90	3.543	75	2.953	8.5	0.335	6	0.236	14.04	2.176	2.75	1.083	2.01	0.791
90 x 75 x 12	12	0.472	14.4	9.676	90	3.543	75	2.953	8.5	0.335	6	0.236	18.36	2.846	2.87	1.13	2.12	0.835

Unequal



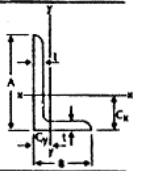
Section Size A x B x t	Moment of Inertia				Max Iu				Min Iv				Radius of Gyration				Max Iu				Min Iv				tan a	Modulus of Section			
	Ix		Iy		Max Iu		Min Iv		ix		iy		Max Iu		Min Iv		Zx		Zy										
	cm ⁴	in ⁴	cm ⁴	in ⁴	cm ⁴	in ⁴	cm ⁴	in ⁴	cm	in	cm	in	cm	in	cm	in	cm ³	in ³	cm ³	in ³									
40 x 20 x 3	2.81	0.068	0.47	0.011	2.98	0.072	0.31	0.007	1.27	0.50	0.52	0.205	1.31	0.516	0.42	0.165	0.257	1.09	0.067	0.30	0.018								
40 x 20 x 5	4.21	0.11	0.68	0.016	4.43	0.106	0.41	0.01	1.24	0.488	0.50	0.197	1.27	0.50	0.41	0.161	0.243	1.68	0.103	0.46	0.208								
50 x 35 x 4	8.08	0.194	3.25	0.078	9.49	0.228	1.84	0.044	1.57	0.618	0.99	0.39	1.70	0.669	0.75	0.295	0.475	2.36	0.144	1.23	0.075								
50 x 35 x 6	12.2	0.269	4.43	0.106	13.1	0.315	2.55	0.061	1.54	0.606	0.97	0.382	1.66	0.654	0.73	0.287	0.466	3.35	0.204	1.72	0.105								
60 x 50 x 5	18.5	0.445	11.7	0.281	24.4	0.586	5.82	0.14	1.87	0.736	1.48	0.583	2.14	0.843	1.05	0.413	0.679	4.40	0.269	3.16	0.193								
60 x 50 x 7	24.4	0.586	15.2	0.365	31.9	0.766	7.68	0.185	1.84	0.724	1.45	0.571	2.10	0.827	1.03	0.406	0.673	5.89	0.359	4.2	0.256								
65 x 50 x 5	23.2	0.557	11.9	0.286	28.8	0.692	6.33	0.152	2.04	0.803	1.47	0.579	2.28	0.898	1.07	0.421	0.577	5.14	0.314	3.19	0.195								
65 x 50 x 7	30.6	0.735	15.6	0.375	37.9	0.911	8.35	0.201	2.01	0.791	1.44	0.567	2.24	0.882	1.05	0.413	0.571	6.90	0.421	4.25	0.259								
65 x 50 x 9	37.8	0.908	19.2	0.461	46.6	1.12	10.4	0.25	1.99	0.783	1.42	0.559	2.21	0.87	1.05	0.413	0.565	8.69	0.53	5.33	0.325								
70 x 60 x 6	35.3	0.848	23.9	0.574	47.6	1.144	11.7	0.281	2.17	0.854	1.78	0.701	2.15	0.988	1.24	0.488	0.719	7.17	0.438	5.4	0.33								
70 x 60 x 8	44.4	1.067	29.8	0.716	59.5	1.429	14.7	0.353	2.13	0.839	1.75	0.689	2.47	0.872	1.23	0.484	0.714	9.13	0.457	6.85	0.418								
70 x 60 x 10	53.6	1.288	36.0	0.865	71.7	1.723	17.9	0.43	2.11	0.831	1.73	0.681	2.44	0.961	1.22	0.48	0.711	11.2	0.683	8.41	0.513								
75 x 50 x 6	40.4	0.971	14.4	0.346	46.4	1.115	8.33	0.20	2.36	0.929	1.41	0.555	2.53	0.996	1.07	0.421	0.434	7.97	0.486	3.78	0.231								
75 x 50 x 8	50.8	1.221	17.8	0.428	58.1	1.396	10.4	0.25	2.33	0.917	1.38	0.543	2.49	0.98	1.05	0.413	0.427	10.2	0.622	4.77	0.291								
75 x 50 x 10	61.4	1.475	21.4	0.514	70.0	1.682	12.7	0.257	2.31	0.909	1.36	0.535	2.47	0.972	1.05	0.413	0.421	12.5	0.763	5.85	0.357								
75 x 65 x 6	44.1	1.06	30.7	0.738	49.9	1.439	14.8	0.356	2.33	0.917	1.94	0.764	2.72	1.071	1.35	0.531	0.737	8.3	0.506	6.39	0.523								
75 x 65 x 8	55.5	1.333	38.4	0.923	75.3	1.809	18.6	0.447	2.29	0.902	1.91	0.752	2.67	1.051	1.33	0.524	0.733	10.6	0.647	8.13	0.496								
75 x 65 x 10	67.3	1.617	46.5	1.117	91.0	2.186	22.8	0.548	2.27	0.894	1.89	0.744	2.65	1.043	1.32	0.52	0.73	13.0	0.793	9.99	0.61								
80 x 60 x 6	51.5	1.237	24.8	0.596	62.9	1.511	13.4	0.322	2.52	0.992	1.75	0.689	2.78	1.094	1.28	0.504	0.548	9.30	0.568	5.5	0.336								
80 x 60 x 8	65.0	1.562	31.0	0.745	79.1	1.90	16.9	0.406	2.48	0.976	1.71	0.673	2.74	1.079	1.26	0.496	0.542	11.9	0.726	6.97	0.425								
80 x 60 x 10	78.7	1.891	37.4	0.899	95.6	2.297	20.5	0.493	2.46	0.969	1.7	0.669	2.52	0.992	1.26	0.496	0.538	14.6	0.891	8.55	0.522								
80 x 70 x 6	54.1	1.30	38.6	0.927	75.3	1.785	18.4	0.442	2.49	0.98	2.1	0.827	2.92	1.15	1.45	0.571	0.752	9.52	0.581	7.46	0.455								
80 x 70 x 9	75.8	1.821	53.8	1.293	104	2.499	25.9	0.622	2.44	0.961	2.06	0.811	2.86	1.126	1.43	0.563	0.748	13.6	0.83	10.6	0.647								
80 x 70 x 12	96.6	1.321	68.3	1.641	131	3.147	33.4	0.802	2.41	0.949	2.03	0.799	2.82	1.11	1.42	0.559	0.744	17.7	1.08	13.8	0.842								
90 x 60 x 6	71.5	1.718	23.6	0.615	82.3	1.977	14.8	0.356	2.86	1.126	1.71	0.674	3.07	1.209	1.30	0.512	0.437	11.7	0.714	5.47	0.34								
90 x 60 x 9	101	2.427	35.4	0.85	115	2.763	20.7	0.497	2.82	1.11	1.67	0.657	3.01	1.185	1.28	0.504	0.43	16.7	1.091	7.9	0.482								
90 x 60 x 12	128	3.075	44.8	1.076	146	2.508	26.7	0.641	2.78	1.094	1.65	0.65	2.97	1.169	1.27	0.50	0.423	21.8	1.33	10.2	0.622								
90 x 75 x 6	76.9	1.848	48.6	1.168	101	2.427	24.2	0.581	2.83	1.114	2.25	0.886	3.25	1.28	1.58	0.622	0.681	12.1	0.738	8.68	0.53								
90 x 75 x 9	109	2.619	68.1	1.636	143	3.436	34.1	0.819	2.78	1.094	2.2	0.866	3.19	1.257	1.56	0.614	0.676	17.4	1.062	12.4	0.757								
90 x 75 x 12	139	3.34	86.8	2.085	182	4.373	44.0	1.057	2.75	1.083	2.17	0.854	3.14	1.236	1.55	0.61	0.672	22.6	1.379	16.1	0.982								

Unequal



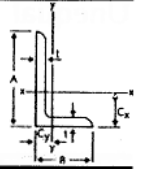
Section Size A x B x t	Thickness		Unit Weight		Leg Length				Corner radius				Section Area		Centre of Gravity			
	t		M		A		B		r1		r2		A		Cx		Cy	
	mm	in	kg/m	lb/ft	mm	in	mm	in	mm	in	mm	in	cm ²	in ²	cm	in	cm	in
90 x 80 x 7	7	0.276	9.04	6.075	90	3.543	80	3.15	10	0.394	5	0.197	11.52	1.786	2.59	1.02	2.1	0.827
90 x 80 x 10	10	0.394	12.6	8.467	90	3.543	80	3.15	10	0.394	7	0.276	16.0	2.48	2.71	1.067	2.21	0.87
90 x 80 x 13	13	0.512	16.0	10.751	90	3.543	80	3.15	10	0.394	7	0.276	20.41	3.164	2.82	1.11	2.33	0.917
100 x 65 x 7	7	0.276	8.77	5.893	100	3.937	65	2.559	10	0.394	5	0.197	11.17	1.731	3.23	1.272	1.52	0.598
100 x 65 x 8	8	0.315	9.94	6.679	100	3.937	65	2.559	10	0.394	4.8	0.189	12.7	1.984	3.27	1.287	1.55	0.61
100 x 65 x 9	9	0.354	11.0	7.392	100	3.937	65	2.559	10	0.394	7	0.276	14.04	2.176	3.31	1.303	1.59	0.626
100 x 65 x 10	10	0.394	12.3	8.265	100	3.937	65	2.559	10	0.394	4.8	0.189	15.6	2.418	3.36	1.323	1.63	0.642
100 x 65 x 12	12	0.472	14.4	9.676	100	3.937	65	2.559	10	0.394	7	0.276	18.36	2.846	3.43	1.35	1.7	0.669
100 x 75 x 7	7	0.276	9.32	6.263	100	3.937	75	2.953	10	0.394	5	0.197	11.87	1.84	3.06	1.205	1.84	0.724
100 x 75 x 8	8	0.315	10.6	7.123	100	3.937	75	2.953	10	0.394	4.8	0.189	13.5	2.093	3.1	1.22	1.87	0.736
100 x 75 x 10	10	0.394	13.0	8.736	100	3.937	75	2.953	10	0.394	7	0.276	16.5	2.557	3.18	1.252	1.95	0.764
100 x 75 x 12	12	0.472	15.4	10.348	100	3.937	75	2.953	10	0.394	4.8	0.189	19.7	3.054	3.27	1.287	2.03	0.799
100 x 75 x 13	13	0.512	16.5	11.087	100	3.937	75	2.953	10	0.394	7	0.276	21.06	3.264	3.3	1.3	2.06	0.811
100 x 80 x 7	7	0.276	9.59	6.444	100	3.937	80	3.15	10	0.394	5	0.196	12.22	1.894	2.98	1.173	2.00	0.787
100 x 80 x 10	10	0.394	13.3	8.937	100	3.937	80	3.15	10	0.394	7	0.276	17.0	2.635	3.1	1.22	2.11	0.831
100 x 80 x 13	13	0.512	17.0	11.423	100	3.937	80	3.15	10	0.394	7	0.276	21.71	3.365	3.22	1.268	2.23	0.878
100 x 90 x 7	7	0.276	10.1	6.787	100	3.937	90	3.543	10	0.394	5	0.197	12.92	2.003	2.84	1.118	2.35	0.925
100 x 90 x 10	10	0.394	14.1	9.475	100	3.937	90	3.543	10	0.394	7	0.276	18.00	2.79	2.96	1.165	2.46	0.969
100 x 90 x 13	13	0.512	18.1	12.162	100	3.937	90	3.543	10	0.394	7	0.276	23.01	3.567	3.07	1.209	2.58	1.016
125 x 75 x 6.5	6.5	0.256	9.98	6.706	125	4.921	75	2.953	11	0.433	4.8	0.189	12.7	1.968	4.06	1.599	1.61	0.634
125 x 75 x 7	7	0.276	10.7	7.19	125	4.921	75	2.953	10	0.394	5	0.197	13.62	2.111	4.1	1.615	1.64	0.646
125 x 75 x 8	8	0.315	12.2	8.198	125	4.921	75	2.953	11	0.433	4.8	0.189	15.5	2.403	4.14	1.63	1.68	0.661
125 x 75 x 10	10	0.394	15.0	10.012	125	4.921	75	2.953	10	0.394	7	0.276	19.0	2.945	4.23	1.665	1.75	0.689
125 x 75 x 12	12	0.472	17.8	11.961	125	4.921	75	2.953	11	0.433	4.8	0.189	22.7	3.519	4.31	1.697	1.84	0.724
125 x 75 x 13	13	0.512	19.1	12.835	125	4.921	75	2.953	10	0.394	7	0.276	24.31	3.768	4.35	1.713	1.87	0.736
125 x 90 x 7	7	0.276	11.5	7.728	125	4.921	90	3.543	10	0.394	5	0.197	14.67	2.274	3.84	1.512	2.11	0.831
125 x 90 x 10	10	0.394	16.1	10.819	125	4.921	90	3.543	10	0.394	7	0.276	20.5	3.177	3.95	1.555	2.22	0.874
125 x 90 x 13	13	0.512	20.6	13.843	125	4.921	90	3.543	10	0.394	7	0.276	26.26	4.07	4.08	1.606	2.34	0.921
137 x 102 x 6.4	6.4	0.252	11.7	7.862	137	5.394	102	4.016	11	0.433	4.8	0.189	14.8	2.294	4.09	1.61	2.36	0.929
137 x 102 x 7.9	7.9	0.311	14.5	9.744	137	5.394	102	4.016	11	0.433	4.8	0.189	18.4	2.852	4.17	1.642	2.44	0.961
137 x 102 x 9.5	9.5	0.374	17.3	11.625	137	5.394	102	4.016	11	0.433	4.8	0.189	21.9	3.395	4.22	1.661	2.49	0.98

Unequal



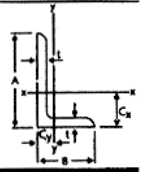
Section Size A x B x t	Moment of Inertia				Max Iu				Min Iv				Radius of Gyration				tan a	Modulus of Section			
	Ix		Iy		ix		iy		Max Iu		Min Iv		Zx		Zy						
	cm ⁴	in ⁴	cm ⁴	in ⁴	cm	in	cm	in	cm	in	cm	in	cm ³	in ³	cm ³	in ³					
90 x 80 x 7	89.6	2.153	66.5	1.598	125	3.003	31.3	0.752	2.79	1.098	2.4	0.945	3.29	1.295	1.65	0.65	0.777	14.0	0.854	11.3	0.69
90 x 80 x 10	121	2.907	89.1	2.141	167	4.018	42.1	1.011	2.74	1.078	2.36	0.929	3.24	1.276	1.62	0.638	0.774	19.1	1.166	15.4	0.94
90 x 80 x 13	151	3.628	111	2.668	208	4.997	53.3	1.281	2.72	1.071	2.33	0.917	3.19	1.256	1.62	0.638	0.77	24.4	1.489	19.6	1.196
100 x 65 x 7	112	2.091	37.6	0.903	128	3.075	22.0	0.529	3.17	1.248	1.84	0.724	3.39	1.335	1.4	0.551	0.415	16.6	1.013	7.55	0.461
100 x 65 x 8	127	3.051	42.2	1.014	144	3.46	24.8	0.596	3.16	1.244	1.83	0.72	3.37	1.327	1.4	0.551	0.414	18.9	1.153	8.54	0.521
100 x 65 x 9	138	3.315	45.6	1.096	157	3.772	26.8	0.644	3.14	1.236	1.8	0.709	3.34	1.335	1.38	0.543	0.411	20.6	1.257	9.28	0.566
100 x 65 x 10	154	3.7	51.0	1.225	175	4.204	30.1	0.723	3.14	1.236	1.81	0.713	3.35	1.319	1.39	0.547	0.41	23.2	1.416	10.5	0.641
100 x 65 x 12	177	4.252	58.1	1.396	200	4.882	34.7	0.834	3.11	1.224	1.78	0.701	3.3	1.3	1.37	0.539	0.405	27.0	1.648	12.1	0.738
100 x 75 x 7	118	2.835	57.0	1.369	144	3.46	30.7	0.738	3.15	1.24	2.19	0.862	3.49	1.374	1.61	0.634	0.548	17.0	1.037	10.1	0.616
100 x 75 x 8	133	3.195	64.1	1.54	163	3.916	34.6	0.831	3.14	1.236	2.18	0.858	3.47	1.366	1.6	0.63	0.547	19.3	1.178	11.4	0.696
100 x 75 x 10	159	3.82	76.1	1.828	194	4.661	41.3	0.992	3.11	1.224	2.15	0.846	3.43	1.35	1.58	0.622	0.543	23.3	1.422	13.7	0.836
100 x 75 x 12	189	4.541	90.2	2.167	230	5.526	49.5	1.189	3.1	1.22	2.14	0.843	3.42	1.346	1.59	0.626	0.54	28.0	1.709	16.5	1.007
100 x 75 x 13	199	4.781	94.8	2.278	242	5.814	52.2	1.254	3.08	1.213	2.12	0.835	3.39	1.335	1.57	0.618	0.538	29.7	1.812	17.4	1.062
100 x 80 x 7	120	2.883	68.6	1.643	154	3.7	35.3	0.848	3.14	1.236	2.37	0.933	3.55	1.398	1.7	0.669	0.625	17.2	1.05	11.4	0.696
100 x 80 x 10	163	3.916	91.9	2.208	207	4.973	47.6	1.144	3.09	1.217	2.33	0.917	3.49	1.374	1.67	0.659	0.621	23.6	1.44	15.6	0.952
100 x 80 x 13	204	4.901	115	2.763	258	6.198	60.1	1.444	3.06	1.205	2.3	0.906	3.45	1.358	1.66	0.654	0.616	30.1	1.837	19.9	1.215
100 x 90 x 7	125	3.003	95.9	2.304	177	4.252	44.5	1.069	3.11	1.224	2.73	1.075	3.7	1.457	1.85	0.728	0.799	17.5	1.068	14.5	0.879
100 x 90 x 10	169	4.06	129	3.099	238	5.718	60.1	1.444	3.07	1.209	2.68	1.055	3.64	1.433	1.83	0.72	0.797	24.0	1.465	19.8	1.208
100 x 90 x 13	212	5.093	162	3.892	298	7.159	76.0	1.826	3.06	1.205	2.65	1.043	3.6	1.417	1.82	0.717	0.794	30.6	1.867	25.2	1.538
125 x 75 x 6.5	204	4.901	56.1	1.348	228	4.821	34.3	0.825	4.01	1.579	2.1	0.827	4.23	1.665	1.64	0.646	0.36	24.2	1.477	9.5	0.58
125 x 75 x 7	219	5.261	60.4	1.451	243	5.138	36.4	0.875	4.01	1.579	2.11	0.831	4.23	1.665	1.63	0.642	0.362	26.1	1.593	10.3	0.629
125 x 75 x 8	247	5.934	67.6	1.624	274	6.583	40.9	0.983	4.0	1.575	2.09	0.823	4.2	1.654	1.63	0.642	0.359	29.6	1.806	11.6	0.708
125 x 75 x 10	298	7.159	80.9	1.944	330	7.928	49.0	1.177	3.86	1.52	2.06	0.811	4.17	1.642	1.61	0.634	0.357	36.1	2.203	14.1	0.86
125 x 75 x 12	354	8.505	95.5	2.294	391	9.394	58.5	1.405	3.95	1.555	2.05	0.807	4.15	1.634	1.61	0.634	0.353	43.2	2.636	16.9	1.031
125 x 75 x 13	376	9.033	101	2.427	414	9.946	61.9	1.487	3.92	1.543	2.04	0.803	4.13	1.626	1.6	0.63	0.352	46.1	2.813	17.9	1.092
125 x 90 x 7	233	5.598	102	2.451	279	6.703	56.2	1.35	3.99	1.571	2.64	1.039	4.36	1.717	1.96	0.772	0.51	26.9	1.642	14.8	0.903
125 x 90 x 10	318	7.64	138	3.315	380	9.129	76.1	1.828	3.94	1.551	2.59	1.02	4.3	1.693	1.93	0.76	0.506	37.2	2.27	20.4	1.245
125 x 90 x 13	401	9.634	165	3.964	479	11.51	87.2	2.095	3.91	1.539	2.51	0.988	4.27	1.681	1.82	0.717	0.499	47.5	2.899	24.8	1.513
137 x 102 x 6.4	287	6.895	137	3.291	352	8.457	74.7	1.795	4.37	1.72	3.02	1.189	4.84	1.91	2.23	0.878	0.544	29.9	1.825	17.6	1.074
137 x 102 x 7.9	353	8.481	169	4.06	428	10.283	90.4	2.172	4.34	1.709	3.0	1.181	4.82	1.9	2.22	0.874	0.544	37.3	2.276	21.8	1.33
137 x 102 x 9.5	417	10.018	194	4.661	506	12.157	107	2.571	4.34	1.709	3.00	1.181	4.80	1.89	2.2	0.866	0.543	43.8	2.673	25.8	1.574

Unequal



Section Size A x B x t	Thickness		Unit Weight		Leg Length				Corner radius				Section Area		Centre of Gravity			
	t		M		A		B		r1		r2		A		Cx		Cy	
	mm	in	kg/m	lb/ft	mm	in	mm	in	mm	in	mm	in	cm ²	in ²	cm	in	cm	in
150 x 75 x 7	7	0.276	12.1	8.131	150	5.906	75	2.953	12	0.472	5	0.197	15.46	2.396	5.17	2.035	1.5	0.591
150 x 75 x 9	9	0.354	15.3	10.281	150	5.906	75	2.953	12	0.472	8.5	0.335	19.44	3.013	5.25	2.067	1.56	0.614
150 x 75 x 10	10	0.394	17.0	11.423	150	5.906	75	2.953	11	0.433	4.8	0.189	21.6	3.348	5.32	2.094	1.61	0.634
150 x 75 x 12	12	0.472	20.1	13.574	150	5.906	75	2.953	12	0.472	8.5	0.335	25.56	3.962	5.39	2.122	1.68	0.661
150 x 75 x 15	15	0.591	24.8	16.665	150	5.906	75	2.953	11	0.433	4.8	0.189	31.6	4.898	5.53	2.177	1.81	0.713
150 x 90 x 9	9	0.354	16.4	11.02	150	5.906	90	3.543	12	0.472	6	0.236	20.94	3.246	4.96	1.953	2.0	0.787
150 x 90 x 10	10	0.394	18.2	12.23	150	5.906	90	3.543	12	0.472	4.8	0.189	23.2	3.596	5.0	1.969	2.04	0.803
150 x 90 x 12	12	0.472	21.6	14.515	150	5.906	90	3.543	12	0.472	8.5	0.335	27.36	4.241	5.07	1.996	2.1	0.828
150 x 90 x 15	15	0.591	26.6	17.874	150	5.906	90	3.543	12	0.472	8.5	0.335	33.75	5.231	5.2	2.047	2.22	0.874
150 x 100 x 9	9	0.354	17.1	11.49	150	5.906	100	3.937	12	0.472	6	0.236	21.84	3.385	4.77	1.878	2.32	0.913
150 x 100 x 12	12	0.472	22.4	15.052	150	5.906	100	3.937	12	0.472	8.5	0.335	28.56	4.427	4.88	1.921	2.41	0.949
150 x 100 x 15	15	0.591	27.7	18.614	150	5.906	100	3.937	12	0.472	8.5	0.335	35.25	5.464	5.1	1.972	2.53	0.996
175 x 90 x 9	9	0.354	18.2	12.23	175	6.89	90	3.543	12	0.472	6	0.236	23.19	3.594	6.04	2.373	1.85	0.728
175 x 90 x 12	12	0.472	23.8	15.993	175	6.89	90	3.543	12	0.472	8.5	0.335	30.36	4.706	6.16	2.425	1.96	0.772
175 x 90 x 15	15	0.591	29.4	19.756	175	6.89	90	3.543	12	0.472	8.5	0.335	37.5	5.812	6.29	2.476	2.08	0.819
200 x 100 x 10	10	0.394	23.0	15.455	200	7.874	100	3.937	15	0.591	4.8	0.189	29.2	4.526	6.93	2.728	2.01	0.791
200 x 100 x 12	12	0.472	27.3	18.345	200	7.874	100	3.937	15	0.591	4.8	0.189	34.8	5.394	7.03	2.768	2.1	0.827
200 x 100 x 15	15	0.591	33.7	22.645	200	7.874	100	3.937	15	0.591	4.8	0.189	43.0	6.665	7.16	2.819	2.22	0.874
200 x 150 x 12	12	0.472	32.0	21.503	200	7.874	150	5.906	15	0.591	4.8	0.189	40.8	6.324	6.08	2.394	3.61	1.421
200 x 150 x 15	15	0.591	39.6	26.61	200	7.874	150	5.906	15	0.591	4.8	0.189	50.5	7.828	6.21	2.445	3.73	1.469
200 x 150 x 18	18	0.709	47.1	31.65	200	7.874	150	5.906	15	0.591	4.8	0.189	60.0	9.3	6.33	2.492	3.85	1.516

Unequal



Section Size A x B x t	Moment of Inertia				Max Iu				Min Iv				Radius of Gyration				tan a	Modulus of Section			
	Ix		Iy		Max Iu		Min Iv		ix		iy		Max Iu		Min 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
150 x 75 x 7	364	8.745	63.1	1.516	386	9.274	40.5	0.973	4.85	1.909	2.02	0.795	5.0	1.969	1.62	0.638	0.265	37.0	2.258	10.5	0.641
150 x 75 x 9	446	7.151	75.6	1.816	473	11.36	48.5	1.17	4.79	1.886	1.97	0.776	4.93	1.941	1.58	0.622	0.26	45.8	2.795	12.7	0.775
150 x 75 x 10	501	12.036	85.8	2.061	532	12.78	55.3	1.329	4.81	1.894	1.99	0.783	4.96	1.953	1.6	0.63	0.261	51.8	3.161	14.6	0.891
150 x 75 x 12	580	13.935	97.4	2.34	614	14.75	63.3	1.521	4.76	1.874	1.95	0.768	4.9	1.929	1.57	0.618	0.257	60.3	3.68	16.7	1.019
150 x 75 x 15	713	17.13	120	2.883	754	18.11	78.8	1.893	4.75	1.87	1.94	0.764	4.88	1.921	1.58	0.622	0.254	75.3	4.595	21.0	1.281
150 x 90 x 9	484	16.63	133	3.195	537	12.9	80.2	1.927	4.81	1.894	2.52	0.992	5.06	1.992	1.96	0.772	0.362	48.2	2.941	19.0	1.159
150 x 90 x 10	533	12.8	146	3.508	591	14.2	88.3	2.121	4.8	1.89	2.51	0.988	5.05	1.988	1.95	0.768	0.36	53.3	3.253	21.0	1.281
150 x 90 x 12	619	14.87	168	4.036	684	16.43	102	2.451	4.75	1.87	2.47	0.972	5.0	1.969	1.93	0.76	0.357	62.3	3.802	24.3	1.483
150 x 90 x 15	753	18.09	202	4.853	831	19.96	124	2.979	4.72	1.858	2.45	0.965	4.99	1.965	1.92	0.756	0.353	76.8	4.687	29.9	1.825
150 x 100 x 9	502	12.06	179	4.3	580	13.93	101	2.427	4.79	1.886	2.86	1.126	5.15	2.028	2.15	0.846	0.441	49.0	2.99	23.3	1.422
150 x 100 x 12	642	15.42	229	5.502	738	17.73	133	3.195	4.74	1.866	2.83	1.114	5.08	2.0	2.15	0.846	0.435	63.4	3.869	30.2	1.843
150 x 100 x 15	781	18.76	276	6.631	896	21.55	161	3.868	4.71	1.854	2.8	1.102	5.04	1.984	2.14	0.843	0.432	78.2	4.772	37.0	2.258
175 x 90 x 9	741	17.8	138	3.315	790	18.93	78.4	1.884	5.65	2.224	2.44	0.961	5.84	2.299	1.84	0.724	0.277	64.6	3.942	19.3	1.178
175 x 90 x 12	950	22.82	174	4.18	1010	24.37	111	2.667	5.6	2.205	2.39	0.941	5.78	2.276	1.91	0.752	0.274	83.8	5.114	24.7	1.507
175 x 90 x 15	1160	27.87	210	5.045	1230	29.55	136	3.267	5.56	2.189	2.37	0.933	5.74	2.26	1.9	0.748	0.27	103	6.285	30.4	1.855
200 x 100 x 10	1220	29.31	210	5.045	1290	30.99	135	3.243	6.46	2.543	2.68	1.055	6.65	2.618	2.15	0.846	0.263	93.2	5.687	26.3	1.605
200 x 100 x 12	1440	34.6	247	5.934	1530	36.76	159	3.82	6.43	2.531	2.67	1.051	6.63	2.61	2.14	0.843	0.262	111	6.774	31.3	1.91
200 x 100 x 15	1758	42.24	299	7.183	1863	44.76	194	4.661	6.4	2.52	2.64	1.039	6.58	2.591	2.13	0.839	0.259	137	8.36	38.4	2.343
200 x 150 x 12	1652	39.69	803	19.29	2024	48.63	431	10.35	6.36	2.504	4.44	1.748	7.04	2.772	3.25	1.28	0.552	119	7.262	70.5	4.302
200 x 150 x 15	2022	48.58	979	23.52	2475	59.46	527	12.66	6.33	2.492	4.4	1.732	7.0	2.756	3.23	1.272	0.55	147	8.97	86.9	5.303
200 x 150 x 18	2376	57.08	1146	27.53	2902	69.72	618	14.85	6.29	2.476	4.37	1.72	6.95	2.736	3.21	1.264	0.548	174	10.62	103	6.285