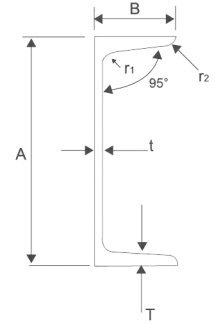
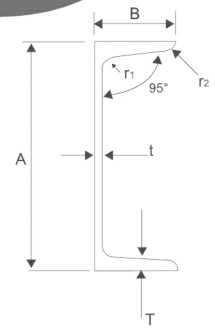


Channels



METRIC SERIES

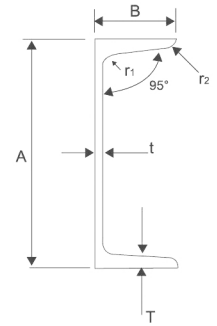
Size A X B X t	Dept (A)		Flange Width (B)		Web (t) Thickness		Flange (T) Thickness		Corner Radius				Sectional Area	
	mm	in	mm	in	mm	in	mm	cm	mm	in	mm	in	cm	in
380 x 100 x 10.5	380	14.961	100	3.937	10.5	.431	16	.630	18	.709	9	.354	69.39	10.76
380 x 100 x 13	380	14.961	100	3.937	13	.512	6.5	.650	18	.709	9	.354	78.96	12.54
300 x 90 x 9	300	11.811	90	3.543	9	.354	12	.512	14	.551	7	.276	48.57	7.531
300 x 90 x 10	300	11.811	90	3.543	10	.394	15.5	.611	19	.748	9.5	.374	55.74	8.640
280 x 100 x 9	280	11.024	100	3.937	9	.354	13	.512	14	.551	7	.276	49.37	7.652
280 x 100 x 11.5	280	11.024	100	3.937	11.5	.453	16	.630	18	.709	9	.354	61.37	9.512
250 x 80 x 8	250	9.843	80	3.150	8	.315	12.5	.492	14	.551	7	.276	38.51	5.969
250 x 90 x 9	250	9.843	90	3.543	9	.354	13	.512	14	.551	7	.276	44.07	6.831
250 x 90 x 11	250	9.843	90	3.543	11	.433	14.5	.571	17	.669	8.5	.335	51.17	7.931
230 x 80 x 8	230	9.055	80	3.150	8	.315	12	.472	13	.512	6.5	.256	36.12	5.599
230 x 90 x 8.5	230	9.055	90	3.543	8.5	.335	13.5	.531	15	.591	7.5	.295	42.14	6.532
200 x 80 x 7.5	200	7.874	80	3.150	7.5	.295	11	.433	12	.472	6	.236	31.33	4.856
200 x 90 x 8	200	7.874	90	3.543	8	.315	13.5	.531	14	.551	7	.276	38.65	5.991
180 x 75 x 7	180	7.087	75	2.953	7	.276	10.5	.413	11	.433	5.5	.217	27.20	4.216
180 x 90 x 7.5	180	7.087	90	3.543	7.5	.295	12.5	.492	13	.512	6.5	.256	34.57	5.358
150 x 75 x 6.5	150	5.906	75	2.953	6.4	.256	10	.394	10	.394	5	.197	23.71	3.675
150 x 75 x 9	150	5.906	75	2.953	9	.354	12.5	.492	15	.591	7.5	.295	30.59	4.741
125 x 65 x 6	125	4.921	65	2.559	6	.236	8	.315	8	.315	4	.157	17.11	2.652
100 x 50 x 5	100	3.937	50	1.969	5	.197	7.5	.295	8	.315	4	.157	11.92	1.848
75 x 40 x 5	75	2.953	40	1.575	5	.197	7	.276	8	.315	4	.157	8.818	1.367



METRIC SERIES

Weight			Centre of Gravity		Moment of Inertial				Radius of Gyration				Modulus of Section				Size A x B x t	
			cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in		
kg/m	kg/ft	lb/ft	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm	in
54.5	16.6	36.60	2.41	.949	14500	348.4	557	13.38	14.5	5.709	2.83	1.114	782	46.50	73.3	4.473	380 x 100 x 10.5	
62.0	18.9	41.66	2.29	.902	15600	374.8	584	14.03	14.1	5.551	2.72	1.071	822	50.16	78.8	4.625	380 x 100 x 13	
38.1	11.6	25.57	2.23	.878	6440	154.7	325	7.808	11.5	4.528	2.59	1.020	429	26.18	48.0	2.929	300 x 90 x 9	
43.8	13.3	29.32	2.33	.917	7400	177.8	373	8.961	11.5	4.528	2.59	1.020	494	30.15	56.0	3.417	300 x 90 x 10	
38.8	11.8	26.07	2.64	1.040	5930	142.5	428	10.28	11.0	4.331	2.95	1.161	423	25.81	58.2	3.552	280 x 100 x 9	
48.2	14.7	32.39	2.68	1.055	7150	171.8	515	12.37	10.8	4.252	2.90	1.142	510	31.12	70.4	4.296	280 x 100 x 11.5	
30.2	9.22	20.29	2.11	.831	3630	87.21	210	5.045	9.71	3.823	2.34	.921	291	17.76	35.7	2.179	250 x 80 x 8	
34.6	10.5	23.15	2.42	.953	4180	100.4	306	7.352	9.74	3.835	2.64	1.039	335	20.44	46.5	2.838	250 x 90 x 9	
40.2	12.2	26.90	2.39	.941	4690	112.7	342	8.217	9.57	3.768	2.58	1.016	375	22.88	51.7	3.155	250 x 90 x 11	
28.4	8.64	19.08	2.15	.846	2900	69.67	200	4.805	8.96	3.528	2.35	.925	252	15.38	34.2	2.087	230 x 80 x 8	
33.1	10.1	22.24	2.58	1.016	3490	83.85	303	7.280	9.10	3.583	2.68	1.055	304	18.55	47.3	2.886	230 x 90 x 8.5	
24.6	7.50	16.53	2.24	.884	1950	46.85	177	4.525	7.89	3.106	2.38	.937	195	11.90	30.8	1.880	200 x 80 x 7.5	
30.3	9.25	20.40	2.77	1.091	2490	59.82	286	6.872	8.03	3.161	2.72	1.071	249	15.19	45.9	2.801	200 x 90 x 8	
21.4	6.51	14.35	2.15	.846	1380	33.15	137	3.291	7.13	2.807	2.24	.882	154	9.398	25.5	1.556	180 x 75 x 7	
27.1	8.27	18.21	2.85	1.122	1840	44.21	258	6.198	7.29	2.870	2.73	1.075	204	12.45	42.0	2.563	180 x 90 x 7.5	
18.6	5.67	12.50	2.31	.909	864	20.75	122	2.931	6.04	2.378	2.27	.894	115	7.018	23.6	1.440	150 x 75 x 6.5	
24.0	7.32	16.13	2.31	.909	1060	25.47	151	3.628	5.87	2.311	2.22	.874	141	8.604	29.1	1.776	150 x 75 x 9	
13.4	4.09	9.004	1.94	.764	425	10.21	65.5	1.571	4.99	1.965	1.96	.772	68.0	4.150	14.4	.879	125 x 65 x 6	
9.36	2.85	6.290	1.55	.610	189	4.541	26.9	.646	3.98	1.567	1.50	.591	37.8	2.307	7.82	.477	100 x 50 x 5	
6.92	2.11	4.650	1.27	.500	75.9	1.823	12.4	.298	2.93	1.154	1.19	.469	20.2	1.233	4.54	.277	75 x 40 x 5	

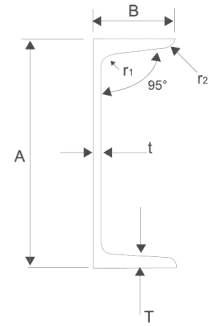
Channels



IMPERIAL SERIES

Designation				Thickness					Web	Ratios for Local Buckling		Moment of inertia	
Serial size	Mass per metre	Depth of Section A	Width of Section B	Web t	Flange T	Distance of Cy	Root radius r ₁	Toe radius r ₂	Depth between fillets d	Flange b/T	Web d/t	Axis x-x	Axis y-y
mm	kg	mm	mm	mm	mm	dm	mm	mm	mm			cm ⁴	cm ⁴
432 x 102	65.54	431.8	101.6	12.2	16.8	2.32	15.2	4.8	362.5	6.05	29.7	21399	628.6
381 x 102	55.10	381.0	101.6	10.4	16.3	2.52	15.2	4.8	312.6	6.23	30.0	14894	579.7
305 x 102	46.18	304.8	101.6	10.2	14.8	2.66	15.2	4.8	239.3	6.86	23.5	8214	499.5
305 x 89	41.69	304.8	88.9	10.2	13.7	2.18	13.7	3.2	245.4	6.49	24.1	7061	325.4
254 x 89	35.74	254.0	88.9	9.1	13.6	2.42	13.7	3.2	194.7	6.54	21.4	4448	302.4
254 x 76	28.29	254.0	75.2	8.1	10.9	1.86	12.2	3.2	203.9	6.99	25.2	3367	162.6
229 x 89	32.76	228.6	88.9	8.6	13.3	2.53	13.7	3.2	169.9	6.68	19.7	3387	285.0
229 x 76	26.06	228.6	76.2	11.2	2.00	12.2	3.2	177.8	6.80	23.4	2610	158.7	
203 x 89	29.76	203.2	88.9	8.1	12.9	2.65	13.7	3.2	145.2	6.89	17.9	2491	264.4
203 x 76	23.82	203.2	76.2	7.1	11.2	2.13	12.2	3.2	152.4	6.80	21.5	1950	151.3
178 x 89	26.81	177.8	88.9	7.6	12.3	2.76	13.7	3.2	121.0	7.23	15.9	1753	241.0
178 x 76	20.84	177.8	76.2	6.6	10.3	2.20	12.2	3.2	128.8	7.40	19.5	1337	134.0
152 x 89	23.84	152.4	88.9	7.1	11.6	2.86	13.7	3.2	96.9	7.66	13.7	1166	215.1
152 x 76	17.88	152.4	76.2	6.4	9.0	2.21	12.2	2.4	105.9	8.47	16.5	851.5	113.8
127 x 64	14.90	127.0	63.5	6.4	9.2	1.94	10.7	2.4	84.0	6.90	13.1	482.5	67.23
100 x 50	7.36	100.0	50.0	5.0	7.5	1.55	8	-	-	-	-	189	26.9
75 x 40	6.92	75.0	40.0	5.0	7.0	1.57	8	4	-	-	-	75.9	12.4

Channels



IMPERIAL SERIES

Radius of gyration		Elastic modulus		Plastic modulus		Buckling Parameter u	Torsional Index x	Warping Constant H	Torsional Constant J	Area of Section	Designation	
Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y						Mass per metre	Serial size
cm	cm	cm ³	cm ³	cm ³	cm ³			cm ⁶	cm	cm ²	kg	mm
16.0	2.74	991.1	80.14	1207	153.1	0.876	24.6	0.217	61.0	83.49	65.54	432 x 102
14.6	2.87	781.8	75.86	932.7	144.4	0.895	22.7	0.153	46.0	70.19	55.10	381 x 102
11.8	2.91	1539.0	66.59	638.3	128.1	0.900	18.9	0.0842	355.4	58.83	46.18	305 x 102
11.5	2.48	463.3	48.49	557.1	92.60	0.887	20.4	0.0551	27.6	53.11	41.69	305 x 89
9.88	2.58	350.2	46.70	414.4	89.56	0.906	17.1	0.0347	22.9	45.52	35.74	254 x 89
9.67	2.12	265.1	28.21	317.4	54.14	0.886	21.2	0.0194	12.3	36.03	28.29	254 x 76
9.01	2.61	296.4	44.82	348.4	86.38	0.912	15.5	0.0263	20.4	41.73	32.76	229 x 89
8.87	2.19	228.3	28.22	270.3	54.24	0.900	18.8	0.0151	11.4	33.20	26.06	229 x 76
8.10	2.64	245.2	42.34	266.6	81.62	0.915	14.1	0.0192	17.8	37.94	29.78	203 x 89
8.02	2.23	192.0	27.59	225.2	53.32	0.911	16.7	0.0112	10.4	30.34	23.82	203 x 76
7.16	2.66	197.2	39.29	229.6	75.44	0.915	12.7	0.0134	15.1	34.15	26.81	178 x 89
7.10	2.25	150.4	24.72	175.4	48.07	0.911	15.5	0.00764	8.13	26.54	20.84	178 x 76
6.20	2.66	153.0	35.70	177.7	68.12	0.909	11.3	0.00881	12.4	30.36	23.84	152 x 89
6.11	2.24	111.8	21.05	130.0	41.26	0.902	14.5	0.00486	5.94	22.77	17.8	152 x 76
5.04	1.88	75.99	15.25	89.4	29.31	0.910	11.7	0.00187	4.92	18.98	14.90	127 x 64
3.98	1.50	37.8	7.82	-	-	-	-	-	-	11.92	9.36	100 x 50
2.93	1.19	20.2	4.54	-	-	-	-	-	-	8.21	5.92	75 x 40