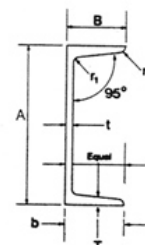




Channels

Imperial Series

Designation		Depth of Section D		Thickness		Distance of Cy	Root radius r ₁		Toe radius r ₂	Web	Ratios for Local Buckling		Moment of inertia	
Serial size	Mass per metre			Web t	Flange T					Depth between fillets d	Flange b/T	Web d/t	Axis x-x	Axis y-y
mm	kg	mm	mm	mm	mm	cm	mm	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	29.78	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	9.36	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



Imperial Series

Radius of gyration		Elastic modulus		Plastic modulus						Area of Section		Designation	
Axis x-x	Axis y-y	Axis x-x	Axis y-y	Axis x-x	Axis y-y	Buckling Parameter u	Torsional Index x	Warping Constant H	Torsional Constant J	Area of Section		Mass per metre	Serial size
cm	cm	cm ³	cm ³	cm ³	cm ³			dm 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	539.0	66.59	638.3	128.1	0.900	18.9	0.0842	35.4	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	286.6	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