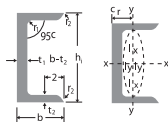


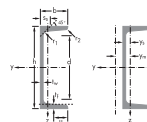
JIS CHANNELS

Size	Weight	Thickness		Corner Radius		Sectional Area	Moment of Inertia		Radius of Gyration		Modulus of Section	
		Web (t ₁)	Flange (t ₂)	r ₁	r ₂		J _x	J _y	i _x	i _y	Z _x	Z _y
A x B x t ₁	kg/m	mm	mm	mm	mm	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³
75x40x5	6.92	5	7	8	4	8.818	75.9	12.4	2.93	1.19	20.2	4.54
100x50x5	9.36	5	7.5	8	4	11.92	189	26.9	3.98	1.50	37.8	7.82
125x65x6	13.4	6	8	8	4	17.11	425	65.5	4.99	1.96	68.0	14.4
150x75x6.5	18.6	6.5	10	10	5	23.71	864	122	6.04	2.27	115	23.6
150x75x9	24.0	9	12.5	15	7.5	30.59	1060	151	5.87	2.22	141	29.1
180x75x7	21.4	7	10.5	11	5.5	27.20	1380	137	7.13	2.24	154	25.5
180x90x7.5	27.1	7.5	12.5	13	6.5	34.57	1840	258	7.29	2.73	204	42.0
200x80x7.5	24.6	7.5	11	12	6	31.33	1950	177	7.89	2.38	195	30.8
200x90x8	30.3	8	13.5	14	7	38.65	2490	286	8.03	2.72	249	45.9
230x80x8	28.4	8	12	13	6.5	36.12	2900	200	8.96	2.35	252	34.2
230x90x8.5	33.1	8.5	13.5	15	7.5	42.14	3490	303	9.10	2.68	304	47.3
250x80x8	30.2	8	12.5	14	7	38.51	3630	210	9.71	2.34	291	35.7
250x90x9	34.6	9	13	14	7	44.07	4180	306	9.74	2.64	335	46.5
250x90x11	40.2	11	14.5	17	8.5	51.17	4690	342	9.57	2.58	375	51.7
280x100x9	38.8	9	13	14	7	49.37	5930	428	11.0	2.95	423	58.2
280x100x11.5	48.2	11.5	16	18	9	61.37	7150	515	10.8	2.90	510	70.4
300x90x9	38.1	9	12	14	7	48.57	6440	325	11.5	2.59	429	48.0
300x90x10	43.8	10	15.5	19	9.5	55.74	7400	373	11.5	2.59	494	56.0
380x100x10.5	54.5	10.5	16	18	9	69.39	14500	557	14.5	2.83	762	73.3
380x100x13	62.0	13	6.5	18	9	78.96	15600	584	14.1	2.72	822	75.8



CHANNELS TO BE4 : PART I

Designation		Depth of Section D mm	Width of Section B mm	Thickness		Root Radius r ₁ mm	Toe Radius r ₂ mm	Depth Between Fillets d mm	Ratios of Local Buckling		Second Moment of Areas	
Weight	Mass per Metre kg/m			Web t mm	Flange T mm				i _x cm	i _y cm	Z _x cm ³	Z _y cm ³
432 x 102	65.54	431.8	101.6	12.2	16.8	15.2	4.8	362.4	6.05	29.7	21400	629
381 x 102	55.10	381.0	101.6	10.4	16.3	15.2	4.8	312.4	6.23	30.0	14900	580
305 x 102	46.18	304.8	101.6	10.2	14.8	15.2	4.8	239.2	6.86	23.5	8210	499
305 x 89	41.69	304.8	88.9	10.2	13.7	13.7	3.2	254.4	6.49	24.1	7060	325
254 x 89	35.74	254.0	88.9	9.1	13.6	13.7	3.2	194.7	6.54	21.4	4450	302
254 x 76	28.29	254.0	76.2	8.1	10.9	12.2	3.2	203.8	6.99	25.2	3370	163
229 x 89	32.76	228.6	88.9	8.6	13.3	13.7	3.2	169.8	6.68	19.7	3390	285
229 x 76	26.06	228.6	76.2	7.6	11.2	12.2	3.2	178.0	6.80	23.4	2610	159
203 x 89	29.78	203.2	88.9	8.1	12.9	13.7	3.2	145.2	6.89	17.9	2490	264
203 x 76	23.82	203.2	76.2	7.1	11.2	12.2	3.2	152.5	6.80	21.5	1950	151
178 x 89	26.81	177.8	88.9	7.6	12.3	13.7	3.2	121.0	7.23	15.9	1750	241
178 x 76	20.84	177.8	76.2	6.6	10.3	12.2	3.2	128.8	7.40	19.5	1340	134
152 x 89	23.84	152.4	88.9	7.1	11.6	13.7	3.2	97.0	7.66	13.7	1170	215
152 x 76	17.88	152.4	76.2	6.4	9.0	12.2	2.4	105.9	8.47	16.5	852	114
127 x 64	14.90	127.0	63.5	6.4	9.2	10.7	2.4	84.0	6.90	13.1	483	67.2
102 x 51	10.42	101.6	50.8	6.1	7.6	9.1	2.4	65.7	6.68	10.8	208	29.1
76 x 38	6.70	76.2	38.1	5.1	6.8	7.6	2.4	45.8	5.60	8.98	74.1	10.7



Radius of Gyration		Elastic Modulus		Plastic Modulus		Buckling Parameter u	Torsional Index x	Warping Constant H dm ⁶	Warping Constant H cm ⁴	Area of Section A cm ²
Axis x-x cm	Axis y-y cm	Axis x-x cm ³	Axis y-y cm ³	Axis x-x cm ³	Axis y-y cm ³					
16.0	2.74	991	80.1	1210	153	0.876	24.6	0.217	61.0	83.5
14.6	2.87	782	75.9	933	144	0.895	22.7	0.153	46.0	70.2
11.8	2.91	539	66.6	638	128	0.9	18.9	0.0842	35.4	58.8
11.5	2.48	463	48.5	557	92.6	0.887	20.4	0.0551	27.6	53.1
9.88	2.58	350	46.7	414	89.6	0.906	17.1	0.0347	22.9	45.5
9.67	2.12	265	28.2	317	54.1	0.886	21.2	0.0194	12.3	36.0
9.01	2.61	296	44.8	348	86.4	0.912	15.5	0.0263	20.4	41.7
8.87	2.19	228	28.2	270	54.2	0.9	18.8	0.0151	11.4	33.2
8.10	2.64	245	42.3	287	81.6	0.915	14.1	0.0192	17.8	37.9
8.02	2.23	192	27.6	225	53.3	0.911	16.7	0.0112	10.4	30.3
7.16	2.66	197	39.3	230	75.4	0.915	12.7	0.0134	15.1	34.2
7.10	2.25	150	24.7	175	48.1	0.911	15.5	0.00764	8.13	26.5
6.20	2.66	156	35.7	178	68.1	0.909	11.3	0.00881	12.4	30.4
6.11	2.24	112	21.0	130	41.3	0.902	14.5	0.00486	5.94	22.8
5.04	1.88	76.0	15.3	89.4	29.3	0.91	11.7	0.00187	4.92	19.0
3.96	1.48	40.9	8.160	48.8	15.7	0.9	10.8	0.000513	2.55	13.3
2.95	1.12	19.5	4.070	23.4	7.76	0.908	9.170	0.000101	1.23	8.53

