

Indian Channels	Sectional Area	Sectional Weight	Total Depth	Flange Width	Thk. of Web	Thk. of Flange	Flange Slope Max.	Root Radius	Toe Radius	Dist. Of C.G.	Moment of Inertia		Sectional Modulus		Radius of Gyration		Plastic Section Modulus		Torsiona Constant	Warping Constant	Depth Bet. Root Fillets	Local Buckling Ratios		Class of Section		
	A	W	H	B	tw	tf	r	R	r	Cyy	Iz	Iy	Zxx	Zyy	rx	ry	Zpx	Zpy	It	Iw	d	b/lf	d/tw	Bending	Compression	
	cm ²	kg/mm	mm	mm	mm	mm	deg.	mm	mm	cm	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³	cm ⁴	cm ⁴	mm					
SECTION PROPERTIES OF INDIAN STANDARD TAPERED FLANGE MEDIUM WEIGHT CHANNEL SECTIONS																										
ISMC 75x40	9.10	7.14	75.00	40.00	4.80	7.50	96.00	8.50	2.40	1.32	78.50	12.90	20.93	4.81	2.94	1.19	24.17	8.69	1.59	0.12	41.1	5.3	8.6	SC	SC	
ISMC 100x50	12.18	9.56	100.00	50.00	5.00	7.70	96.00	9.00	2.40	1.54	192.00	26.70	38.40	7.72	3.97	1.48	43.83	14.30	2.26	0.46	63.8	6.5	12.8	SC	SC	
ISMC 125x65	16.69	13.10	125.00	65.00	5.30	8.20	96.00	9.50	2.40	1.95	425.00	61.10	68.00	13.43	5.05	1.91	77.15	25.56	3.59	1.74	85.3	7.9	16.1	SC	SC	
ISMC 150x75	21.40	16.80	150.00	75.00	5.70	9.00	96.00	10.00	2.40	2.20	788.00	103.00	105.07	19.43	6.07	2.19	119.82	37.88	5.45	4.32	106.8	8.3	18.7	SC	SC	
ISMC 175x75	24.97	19.60	175.00	75.00	6.00	10.20	96.00	10.50	3.20	2.19	1240.00	122.00	141.71	22.98	7.05	2.21	161.65	44.40	7.49	6.84	128.6	7.4	21.4	SC	SC	
ISMC 200x75	28.41	22.30	200.00	75.00	6.20	11.40	96.00	11.00	3.20	2.20	1830.00	141.00	183.00	26.60	8.03	2.23	211.26	51.07	9.90	10.12	150.3	6.6	24.2	SC	SC	
ISMC 250x80	33.25	26.10	250.00	80.00	7.20	14.10	96.00	12.00	3.20	2.30	3880.00	211.00	310.40	37.02	10.80	2.52	277.93	63.64	18.94	24.55	192.7	5.7	26.8	SC	SC	
ISMC 250x82	38.98	30.60	250.00	82.00	9.00	14.10	96.00	12.00	3.20	2.23	4080.00	244.00	326.40	40.87	10.23	2.50	356.72	73.90	22.88	26.86	192.7	5.8	21.4	SC	SC	
ISMC 300x90	46.24	36.30	300.00	90.00	7.80	13.60	96.00	13.00	3.20	2.35	6420.00	313.00	428.00	47.07	11.78	2.60	496.77	91.21	21.79	52.11	240.9	6.6	30.9	SC	SC	
ISMC 300x92	52.80	41.50	300.00	92.00	10.00	13.60	96.00	13.00	3.20	2.26	6900.00	345.00	460.00	49.80	11.40	2.56								SC	SC	
ISMC 400x100	63.82	50.10	400.00	100.00	8.80	15.30	96.00	15.00	4.80	2.42	15200.00	508.00	760.00	67.02	15.43	2.82	891.03	127.69	36.14	153.67	333.0	6.5	37.8	SC	SC	