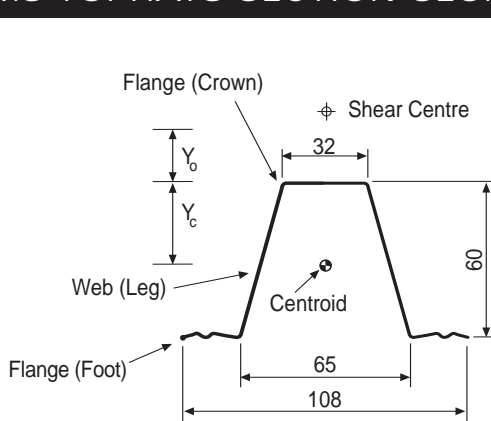
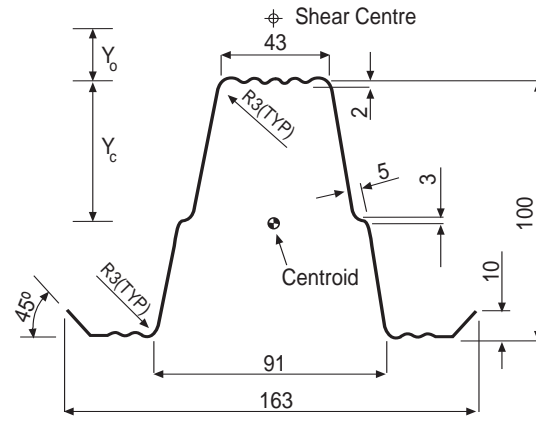


# MS TOPHATS SECTION GEOMETRY & PROPERTIES

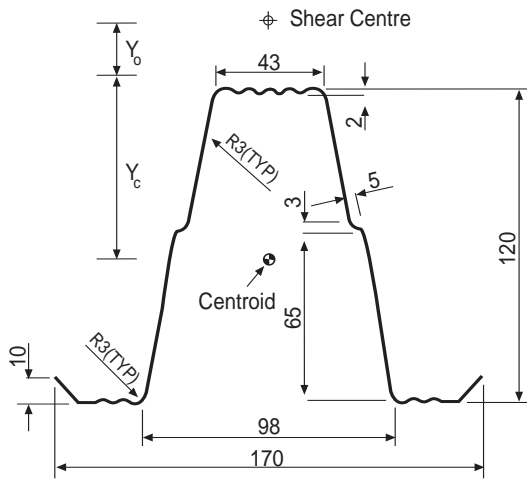
## MS TOPHATS SECTION GEOMETRY



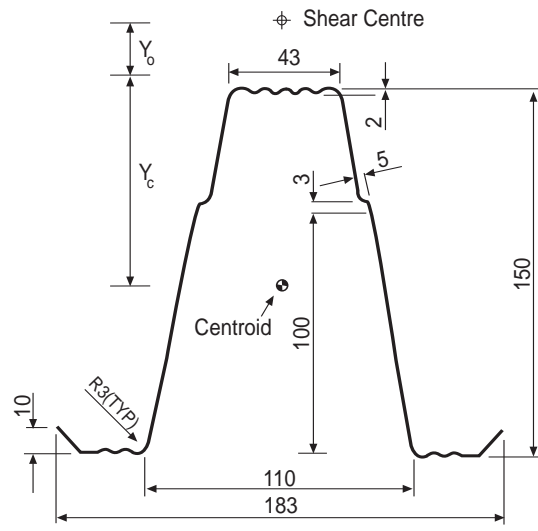
MS 60 TOPHAT



MS 100 TOPHAT



MS 120 TOPHAT



MS 150 TOPHAT

## MS TOPHATS SECTION PROPERTIES

Code	Thickness	Area	Mass	Second Moment Area (Full)		Section Modulus		Radius of Gyration		Centre of Gravity		Shear Centre	Torsion Constant	Warping Constant	Mono-Symmetry Constant
				$I_x$	$I_y$	$Z_x$	$Z_y$	$r_x$	$r_y$	$Y_c$	$Y_0$				
	t(BMT)	mm <sup>2</sup>	kg/m	10 <sup>2</sup> mm <sup>4</sup>	10 <sup>6</sup> mm <sup>4</sup>	10 <sup>3</sup> mm <sup>3</sup>	10 <sup>3</sup> mm <sup>3</sup>	mm	mm	mm	mm	mm <sup>4</sup>	10 <sup>9</sup> mm <sup>6</sup>	mm	
60 MS Tophat 0.75 BMT	0.75	150	1.18	0.078	0.119	2.45	2.20	22.8	28.1	31.7	44.2	28.2	16.05	110	
60 MS Tophat 0.95 BMT	0.95	190	1.50	0.098	0.151	3.09	2.78	22.8	28.1	31.7	44.2	57.3	20.33	110	
100 MS Tophat 0.75 BMT	0.75	248	1.93	0.388	0.439	6.30	5.39	37.1	42.2	55.2	67.4	46.5	238.61	158	
100 MS Tophat 0.95 BMT	0.95	314	2.45	0.428	0.556	7.75	6.83	37.0	42.2	55.2	67.4	94.5	302.24	158	
120 MS Tophat 0.75 BMT	0.75	278	2.17	0.527	0.519	8.03	6.13	43.7	43.3	65.6	82.3	52.1	363.31	184	
120 MS Tophat 0.95 BMT	0.95	352	2.75	0.667	0.657	10.16	7.76	43.6	43.3	65.6	82.3	105.9	460.20	184	
150 MS Tophat 0.95 BMT	0.95	410	3.21	1.160	0.878	14.30	9.60	53.3	46.3	81.1	103.9	123.5	758.37	225	
150 MS Tophat 1.15 BMT	1.15	497	3.88	1.400	1.060	17.30	11.62	53.2	46.3	81.1	103.9	219.1	918.02	225	
150 MS Tophat 1.55 BMT	1.55	670	5.23	1.890	1.430	23.32	15.66	53.2	46.3	81.1	103.9	536.5	1237.33	225	