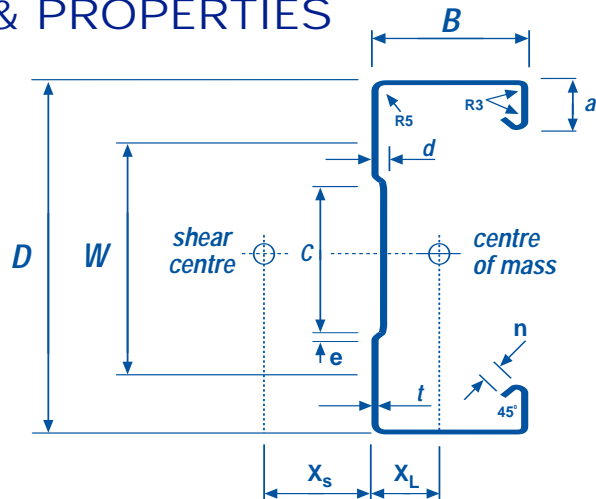


MSS SECTION GEOMETRY & PROPERTIES



MSS PURLINS & GIRTS – SECTION GEOMETRY

CODE	D X B mm	t mm	Mass kg/m	Area mm ²	a mm	n mm	c mm	d mm	e mm	X _s mm	X _L mm	W mm
MSS 150/12	150 x 65	1.15	3.00	382	24	11	32.5	4.00	6	39.4	25.6	80
150/15	150 x 65	1.45	3.79	475	24	11	32.5	4.00	6	38.9	25.5	80
150/18	150 x 65	1.75	4.60	587	24	11	32.5	4.00	6	38.4	24.4	80
MSS 200/12	200 x 75	1.15	3.68	469	25	12	69.5	4.80	6.5	44.1	26.9	120
200/15	200 x 75	1.45	4.64	584	25	12	69.5	4.80	6.5	43.7	26.7	120
200/18	200 x 75	1.75	5.61	697	25	12	69.5	4.80	6.5	43.1	26.6	120
MSS 250/13	250 x 85	1.25	4.80	624	33	12	107	6.55	8	50.5	29.9	160
250/15	250 x 85	1.45	5.58	719	33	12	107	6.55	8	50.2	29.8	160
250/18	250 x 85	1.75	6.73	860	33	12	107	6.55	8	49.7	29.6	160
MSS 275/15	275 x 90	1.45	6.08	775	33	12	130	7.00	8	52.0	30.6	180
275/18	275 x 90	1.75	7.36	937	33	12	130	7.00	8	50.8	30.7	180
MSS 300/15	300 x 100	1.45	6.60	853	37	12	146	7.55	9	57.3	34.0	200
300/18	300 x 100	1.75	7.96	1020	37	12	146	7.55	9	56.8	33.9	200
MSS 325/15	325 x 100	1.45	6.98	889	37	12	150	7.55	9	55.8	32.7	220
325/18	325 x 100	1.75	8.41	1070	37	12	150	7.55	9	54.8	32.7	220
MSS 350/18	350 x 100	1.75	8.91	1130	43	12	179	7.55	9	56.8	32.8	240
MSS 400/20	400 x 100	1.95	10.9	1390	48	12	227	7.55	9	56.5	31.5	280

NOTES: 1. All dimensions are nominal within rolling tolerances 2. W = standard hole centres

MSS PURLINS & GIRTS – SECTION PROPERTIES

CODE	AREA mm ²	WEIGHT kN/m	SECOND MOMENT OF AREA		SECTION MODULUS		RADIUS OF GYRATION		TORSION CONSTANT J mm ⁴	WARPING FACTOR I _w 10 ⁹ mm ⁶
			I _x 10 ⁶ mm ⁴	I _y 10 ⁶ mm ⁴	Z _x 10 ³ mm ³	Z _y 10 ³ mm ³	r _x mm	r _y mm		
MSS 150/12	382	0.030	1.39	0.25	18.6	6.32	60.3	25.5	169	1.66
150/15	475	0.037	1.72	0.31	23.0	7.73	60.2	25.3	334	1.97
150/18	587	0.046	2.04	0.38	27.2	9.30	58.9	25.3	599	2.24
MSS 200/12	469	0.036	2.97	0.39	29.7	8.12	79.5	28.9	207	4.04
200/15	584	0.046	3.68	0.48	36.8	9.97	79.4	28.7	410	4.84
200/18	697	0.055	4.38	0.57	43.8	11.7	79.3	28.5	711	5.57
MSS 250/13	624	0.047	5.94	0.67	47.5	12.1	97.6	32.7	325	10.9
250/15	719	0.055	6.83	0.76	54.7	13.8	97.5	32.6	504	12.3
250/18	860	0.066	8.14	0.90	65.2	16.3	97.3	32.4	878	14.3
MSS 275/15	776	0.061	8.85	0.91	64.4	15.3	107	34.4	543	17.0
275/18	937	0.074	10.7	1.10	77.7	18.6	107	34.3	956	20.0
MSS 300/15	853	0.065	11.7	1.23	77.6	18.6	117	37.9	598	27.8
MSS 300/18	1020	0.078	13.9	1.46	92.7	22.0	117	37.8	1040	32.4
MSS 325/15	888	0.070	14.1	1.29	86.5	19.1	126	38.1	623	32.4
325/18	1070	0.084	16.9	1.50	104	23.1	126	38.1	1090	38.2
MSS 350/18	1130	0.087	20.3	1.62	116	24.1	134	37.9	1150	49.5
MSS 400/20	1390	0.106	31.4	1.93	157	28.1	151	37.5	1740	77.6

NOTES: Section Properties (Based on full unreduced sections)