

MS-150™ (double lock) Roof panel

SECTION PROPERTIES										ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)									
Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Inward Load									
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2'	2.5'	3'	3.5	4'	4.5'	5'	5.5'	6'	8'
12	24	50	1.24	0.0973	0.0864	0.0781	0.0596	0.0705	0.0643	317.3	253.8	178.6	131.2	100.5	79.4	64.3	53.1	44.7	22.1
12	22	50	1.58	0.1233	0.1100	0.0994	0.0779	0.0911	0.0816	451.4	326.4	226.7	166.5	127.5	100.7	81.6	67.4	56.7	31.9
16	24	50	1.18	0.0782	0.0686	0.0598	0.0451	0.0547	0.0484	238.2	190.6	134.4	98.8	75.6	59.8	48.4	40.0	33.6	18.9
16	22	50	1.52	0.0992	0.0874	0.0767	0.0586	0.0704	0.0965	338.6	270.9	225.8	193.5	150.8	119.1	96.5	79.8	67.0	24.0
18	24	50	1.12	0.0707	0.0618	0.0534	0.0400	0.0489	0.0429	211.4	169.1	119.2	87.6	67.0	53.0	42.9	35.5	29.8	16.8
18	22	50	1.46	0.0910	0.0797	0.0686	0.0520	0.0633	0.0570	300.9	228.0	158.3	116.3	89.1	70.4	57.0	47.1	39.6	22.3

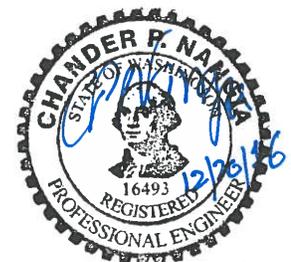
- Theoretical section properties have been calculated per AISI 2012 North American Specification for the Design of Cold-Formed Steel Structural Member. I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- Allowable load does not address panel weight, fasteners, connection strength or support material.
- Allowable load includes web crippling.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection is **not considered**.
- Allowable loads do not include a 1/3 stress increase for wind.

SECTION PROPERTIES										ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)									
Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Inward Load									
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2'	2.5'	3'	3.5	4'	4.5'	5'	5.5'	6'	8'
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18	22	50	1.46	0.0910	0.0797	0.0686	0.0520	0.0633	0.0570	300.9	228.0	158.3	116.3	89.1	70.4	57.0	47.1	39.6	22.3

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- Allowable load does not address panel weight, fasteners, connection strength or support material.
- Allowable load includes web crippling.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection consideration is limited by a maximum deflection ratio of **L/120** of span.
- Allowable loads do not include a 1/3 stress increase for wind.

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- Allowable load includes web crippling.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection consideration is limited by a maximum deflection ratio of **L/180** of span.
- Allowable loads do not include a 1/3 stress increase for wind.



EXPIRES 09-16-2018

MS-150™ (single lock) Roof panel

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Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Inward Load									
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2'	2.5'	3'	3.5'	4'	4.5'	5'	5.5'	6'	8'
12	24	50	1.24	0.1239	0.1100	0.1017	0.0772	0.0907	0.1068	317.3	253.8	211.5	181.3	158.6	131.9	106.8	88.3	74.2	41.7
12	22	50	1.58	0.1497	0.1330	0.1233	0.0953	0.1110	0.1104	451.4	361.1	300.9	225.3	172.5	136.3	110.4	91.2	76.7	43.1
16	24	50	1.18	0.0990	0.0871	0.0777	0.0579	0.0698	0.0805	238.2	190.6	158.8	136.1	119.1	99.4	80.5	66.5	55.9	31.5
16	22	50	1.52	0.1200	0.1060	0.0941	0.0720	0.0860	0.0830	338.6	270.9	225.8	169.4	129.7	102.5	83.0	68.6	57.6	32.4
18	24	50	1.12	0.0900	0.0788	0.0692	0.0513	0.0625	0.0715	211.4	169.1	140.9	120.8	105.7	88.3	71.5	55.1	49.7	27.9
18	22	50	1.46	0.1090	0.0960	0.0839	0.0640	0.0771	0.0737	300.9	240.7	200.6	150.4	115.2	91.0	73.7	60.9	51.2	28.8

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