



Medallion-Lok 16"

Bare & Painted



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	P _{a_end} lbs/ft.	P _{a_int} lbs/ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.
22	50.0	1.69	1.2443	203.25	601.28	0.1200	0.0807	2.0175	0.0563	0.0724	1.4220

1. Section properties are calculated in accordance with the 2016 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50
Single	Positive Wind	500	500	336	215	149	109	84	66	53	44	37	31	27	23	21	18
	Live	500	500	336	215	149	109	84	66	53	44	37	31	27	23	21	18
	Deflection (L/180)	500	500	500	500	388	244	163	115	83	63	48	38	30	24	20	17
	Deflection (L/240)	500	500	500	500	291	183	122	86	62	47	36	28	22	18	15	12
2 Span	Positive Wind	500	401	230	149	104	76	58	46	37	31	26	22	19	16	14	13
	Live	500	401	230	149	104	76	58	46	37	31	26	22	19	16	14	13
	Deflection (L/180)	500	500	500	500	500	432	289	203	148	111	85	67	54	43	36	30
	Deflection (L/240)	500	500	500	500	500	324	217	152	111	83	64	50	40	32	27	22
3 Span	Positive Wind	500	492	284	184	129	95	73	58	47	38	32	27	24	21	18	16
	Live	500	492	284	184	129	95	73	58	47	38	32	27	24	21	18	16
	Deflection (L/180)	500	500	500	500	500	339	227	159	116	87	67	52	42	34	28	23
	Deflection (L/240)	500	500	500	500	403	254	170	119	87	65	50	39	31	25	21	17
4 Span	Positive Wind	500	462	266	172	120	89	68	54	43	36	30	26	22	19	17	15
	Live	500	462	266	172	120	89	68	54	43	36	30	26	22	19	17	15
	Deflection (L/180)	500	500	500	500	500	359	241	169	123	92	71	56	44	36	30	25
	Deflection (L/240)	500	500	500	500	428	269	180	126	92	69	53	42	33	27	22	18
ASTM E1592 Wind Uplift Testing		100.8	94.4	94.0	87.7	81.4	75.1	68.9	62.6	56.3							

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Live is the allowable live or snow load.
3. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
4. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
5. The weight of the panel has **NOT** been deducted from the allowable loads.
6. Positive wind and Live load values are limited to combined shear & bending using Eq. H2-1 of the AISI Specification.
7. Values of ASTM E1592 Wind Uplift Testing include a factor of safety of 1.67. Shaded areas are outside of test range. Contact McElroy Metal for more information.
8. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
9. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
10. Load Tables are limited to a maximum allowable load of 500 psf.