



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.
24	50.0	1.30	0.7920	125.03	371.48	0.0848	0.0565	1.4115	0.0390	0.0476	1.0305

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	418	235	150	104	76	58	46	37	31	26	22	19	16	14	13
	Live	500	418	235	150	104	76	58	46	37	31	26	22	19	16	14	13
	Deflection (L/180)	500	500	500	474	274	172	115	81	59	44	34	26	21	17	14	12
	Deflection (L/240)	500	500	500	355	205	129	86	60	44	33	25	20	16	13	10	9
2 Span	Positive Wind	500	287	165	107	75	55	42	33	27	22	19	16	13	12	10	9
	Live	500	287	165	107	75	55	42	33	27	22	19	16	13	12	10	9
	Deflection (L/180)	500	500	500	500	482	303	203	142	104	78	60	47	37	30	25	21
	Deflection (L/240)	500	500	500	500	361	227	152	107	78	58	45	35	28	23	19	15
3 Span	Positive Wind	500	350	204	132	93	68	52	41	34	28	23	20	17	15	13	11
	Live	500	350	204	132	93	68	52	41	34	28	23	20	17	15	13	11
	Deflection (L/180)	500	500	500	500	377	238	159	111	81	61	47	37	29	24	19	16
	Deflection (L/240)	500	500	500	489	283	178	119	83	61	46	35	27	22	18	14	12
4 Span	Positive Wind	500	329	191	124	87	64	49	39	31	26	22	18	16	14	12	11
	Live	500	329	191	124	87	64	49	39	31	26	22	18	16	14	12	11
	Deflection (L/180)	500	500	500	500	401	252	169	118	86	65	50	39	31	25	21	17
	Deflection (L/240)	500	500	500	500	300	189	126	89	65	48	37	29	23	19	15	13
ASTM E1592 Uplift Testing		75.7	66.4	57.0	53.2	49.4	45.6	41.8	38.0	34.2							

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.