



Medallion-Lok 18"

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	1.27	0.7040	111.13	330.20	0.0767	0.0504	1.2593	0.0347	0.0423	0.9167

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	373	209	134	93	68	52	41	33	27	23	19	17	14	13	11
	Live	500	373	209	134	93	68	52	41	33	27	23	19	17	14	13	11
	Deflection (L/180)	500	500	500	428	248	156	104	73	53	40	31	24	19	15	13	10
	Deflection (L/240)	500	500	500	321	186	117	78	55	40	30	23	18	14	11	9	8
2 Span	Positive Wind	500	255	147	95	66	49	37	29	24	20	16	14	12	10	9	8
	Live	500	255	147	95	66	49	37	29	24	20	16	14	12	10	9	8
	Deflection (L/180)	500	500	500	500	434	273	183	128	93	70	54	42	34	27	22	19
	Deflection (L/240)	500	500	500	500	325	205	137	96	70	52	40	32	25	20	17	14
3 Span	Positive Wind	500	311	181	118	82	61	47	37	30	25	21	17	15	13	11	10
	Live	500	311	181	118	82	61	47	37	30	25	21	17	15	13	11	10
	Deflection (L/180)	500	500	500	500	340	214	143	100	73	55	42	33	26	21	17	14
	Deflection (L/240)	500	500	500	440	255	160	107	75	55	41	31	25	20	16	13	11
4 Span	Positive Wind	500	293	170	110	77	57	44	34	28	23	19	16	14	12	11	9
	Live	500	293	170	110	77	57	44	34	28	23	19	16	14	12	11	9
	Deflection (L/180)	500	500	500	500	360	227	152	106	77	58	45	35	28	23	19	15
	Deflection (L/240)	500	500	500	467	270	170	114	80	58	43	33	26	21	17	14	11
ASTM E1592 Uplift Testing		66.7	60.3	53.8	48.7	43.6	38.5	33.4	28.3	23.3							

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.