



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.
22	50.0	1.64	1.1060	180.67	534.47	0.1087	0.0722	1.8047	0.0500	0.0645	1.2647

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	300	192	133	98	75	59	48	39	33	28	24	21	18	16
	Live	500	500	300	192	133	98	75	59	48	39	33	28	24	21	18	16
	Deflection (L/180)	500	500	500	500	351	221	148	104	75	57	43	34	27	22	18	15
	Deflection (L/240)	500	500	500	455	263	166	111	78	56	42	32	25	20	16	13	11
2 Span	Positive Wind	500	357	205	132	92	68	52	41	33	27	23	19	17	14	13	11
	Live	500	357	205	132	92	68	52	41	33	27	23	19	17	14	13	11
	Deflection (L/180)	500	500	500	500	500	389	260	183	133	100	77	60	48	39	32	27
	Deflection (L/240)	500	500	500	500	463	292	195	137	100	75	57	45	36	29	24	20
3 Span	Positive Wind	500	437	253	164	115	84	65	51	41	34	29	24	21	18	16	14
	Live	500	437	253	164	115	84	65	51	41	34	29	24	21	18	16	14
	Deflection (L/180)	500	500	500	500	484	305	204	143	104	78	60	47	38	31	25	21
	Deflection (L/240)	500	500	500	500	363	228	153	107	78	58	45	35	28	23	19	15
4 Span	Positive Wind	500	411	237	153	107	79	60	48	39	32	27	23	20	17	15	13
	Live	500	411	237	153	107	79	60	48	39	32	27	23	20	17	15	13
	Deflection (L/180)	500	500	500	500	500	323	217	152	111	83	64	50	40	32	27	22
	Deflection (L/240)	500	500	500	500	385	242	162	114	83	62	48	37	30	24	20	16
ASTM E1592 Wind Uplift Testing		79.9	75.9	72.0	67.0	61.9	56.9	51.9	46.8	41.8							

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.