



Medallion-Lok 18"



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	1.1140	316.10	510.00	0.1090	0.0718	2.1490	0.0510	0.0649	1.5310

1. Section properties are calculated in accordance with the 2004 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	358	229	159	116	89	70	57	47	39	33	29	25	22	19
	Live	500	500	358	229	159	116	89	70	57	47	39	33	29	25	22	19
	Deflection (L/180)	500	500	500	500	352	222	148	104	76	57	44	34	27	22	18	15
	Deflection (L/240)	500	500	500	457	264	166	111	78	57	42	33	26	20	16	13	11
2 Span	Positive Wind	500	423	245	159	111	82	63	50	40	33	28	24	20	18	15	14
	Live	500	423	245	159	111	82	63	50	40	33	28	24	20	18	15	14
	Deflection (L/180)	500	500	500	500	500	392	263	184	134	101	77	61	49	39	32	27
	Deflection (L/240)	500	500	500	500	467	294	197	138	101	75	58	46	36	29	24	20
3 Span	Positive Wind	500	500	301	196	138	102	78	62	50	41	35	30	25	22	19	17
	Live	500	500	301	196	138	102	78	62	50	41	35	30	25	22	19	17
	Deflection (L/180)	500	500	500	500	488	307	206	144	105	79	61	48	38	31	25	21
	Deflection (L/240)	500	500	500	500	366	230	154	108	79	59	45	36	28	23	19	16
4 Span	Positive Wind	500	485	283	184	129	95	73	58	47	39	32	28	24	21	18	16
	Live	500	485	283	184	129	95	73	58	47	39	32	28	24	21	18	16
	Deflection (L/180)	500	500	500	500	500	326	218	153	112	84	64	51	40	33	27	22
	Deflection (L/240)	500	500	500	500	389	245	164	115	84	63	48	38	30	24	20	17
ASTM E1592 Wind Uplift Testing		78.8	75.7	72.6	68.8	65.0	61.2	57.4	53.6	49.8							

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Live is the allowable live or snow load.
4. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
5. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
6. The weight of the panel has **NOT** been deducted from the allowable loads.
7. Positive wind and Live load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
8. 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.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
11. Load Tables are limited to a maximum allowable load of 500 psf.