



# Medallion-Lok 12"

SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V <sub>a</sub> kip/ft.	P <sub>a,end</sub> lbs/ft.	P <sub>a,int</sub> lbs/ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.
24	50.0	1.39	1.0950	135.20	478.00	0.1159	0.0780	1.9750	0.0546	0.0644	1.4450

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<sub>a</sub> is the allowable shear.
3. P<sub>a</sub> is the allowable load for web crippling on end & interior supports.
4. I<sub>x</sub> is for deflection determination.
5. S<sub>e</sub> is for bending.
6. M<sub>a</sub> 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	270	180	135	108	90	77	67	60	52	43	36	31	26	23	20	18
	Live	270	180	135	108	90	77	67	60	52	43	36	31	26	23	20	18
	Deflection (L/180)	500	500	500	500	375	236	158	111	81	60	46	36	29	24	19	16
	Deflection (L/240)	500	500	500	486	281	177	118	83	60	45	35	27	22	18	14	12
2 Span	Positive Wind	360	240	180	144	105	77	59	47	38	31	26	22	19	17	15	13
	Live	360	240	180	144	105	77	59	47	38	31	26	22	19	17	15	13
	Deflection (L/180)	500	500	500	500	500	418	280	196	143	107	83	65	52	42	35	29
	Deflection (L/240)	500	500	500	500	498	313	210	147	107	80	62	49	39	31	26	21
3 Span	Positive Wind	338	225	169	135	112	96	74	58	47	39	33	28	24	21	18	16
	Live	338	225	169	135	112	96	74	58	47	39	33	28	24	21	18	16
	Deflection (L/180)	500	500	500	500	500	327	219	154	112	84	65	51	40	33	27	22
	Deflection (L/240)	500	500	500	500	390	245	164	115	84	63	48	38	30	24	20	17
4 Span	Positive Wind	344	229	172	137	114	90	69	54	44	36	31	26	22	19	17	15
	Live	344	229	172	137	114	90	69	54	44	36	31	26	22	19	17	15
	Deflection (L/180)	500	500	500	500	500	348	233	163	119	89	69	54	43	35	29	24
	Deflection (L/240)	500	500	500	500	414	261	174	122	89	67	51	40	32	26	21	18
ASTM E1592 Wind Uplift Testing		79.3	77.4	75.6	71.2	66.8	62.3	57.9	53.5	49.0							

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 1.5".
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.