



# 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	1.42	1.0400	291.20	468.80	0.1079	0.0740	2.2160	0.0525	0.0636	1.6620

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<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	500	500	369	236	164	120	92	72	59	48	41	34	30	26	23	20
	Live	500	500	369	236	164	120	92	72	59	48	41	34	30	26	23	20
	Deflection (L/180)	500	500	500	500	349	219	147	103	75	56	43	34	27	22	18	15
	Deflection (L/240)	500	500	500	452	261	164	110	77	56	42	32	25	20	16	13	11
2 Span	Positive Wind	500	450	262	171	120	88	68	54	43	36	30	26	22	19	17	15
	Live	500	450	262	171	120	88	68	54	43	36	30	26	22	19	17	15
	Deflection (L/180)	500	500	500	500	500	393	263	185	135	101	78	61	49	40	32	27
	Deflection (L/240)	500	500	500	500	469	295	197	138	101	76	58	46	36	30	24	20
3 Span	Positive Wind	500	500	321	211	148	110	84	67	54	45	38	32	28	24	21	19
	Live	500	500	321	211	148	110	84	67	54	45	38	32	28	24	21	19
	Deflection (L/180)	500	500	500	500	489	308	206	145	105	79	61	48	38	31	25	21
	Deflection (L/240)	500	500	500	500	367	231	155	108	79	59	45	36	28	23	19	16
4 Span	Positive Wind	500	500	302	198	139	103	79	62	51	42	35	30	26	22	20	17
	Live	500	500	302	198	139	103	79	62	51	42	35	30	26	22	20	17
	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
ASTM E1592 Wind Uplift Testing		NO TEST DATA AVAILABLE															

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 2.0. 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.