



# 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.
22	50.0	1.85	1.6710	474.10	765.00	0.1511	0.1052	3.1490	0.0759	0.0967	2.2920

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	500	335	233	171	131	103	83	69	58	49	42	37	32	29
	Live	500	500	500	335	233	171	131	103	83	69	58	49	42	37	32	29
	Deflection (L/180)	500	500	500	500	489	308	206	144	105	79	61	48	38	31	25	21
	Deflection (L/240)	500	500	500	500	366	231	154	108	79	59	45	36	28	23	19	16
2 Span	Positive Wind	500	500	367	238	166	123	94	74	60	50	42	36	31	27	23	21
	Live	500	500	367	238	166	123	94	74	60	50	42	36	31	27	23	21
	Deflection (L/180)	500	500	500	500	500	500	373	262	191	143	110	87	69	56	46	38
	Deflection (L/240)	500	500	500	500	500	418	280	196	143	107	82	65	52	42	35	29
3 Span	Positive Wind	500	500	451	294	206	153	117	93	75	62	52	44	38	33	29	26
	Live	500	500	451	294	206	153	117	93	75	62	52	44	38	33	29	26
	Deflection (L/180)	500	500	500	500	500	436	292	205	149	112	86	68	54	44	36	30
	Deflection (L/240)	500	500	500	500	500	327	219	154	112	84	65	51	40	33	27	22
4 Span	Positive Wind	500	500	423	276	193	143	109	87	70	58	49	41	36	31	27	24
	Live	500	500	423	276	193	143	109	87	70	58	49	41	36	31	27	24
	Deflection (L/180)	500	500	500	500	500	463	310	218	158	119	92	72	57	47	38	32
	Deflection (L/240)	500	500	500	500	500	347	232	163	119	89	69	54	43	35	29	24
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.