



# Medallion-Lok 16"



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	1.69	1.2530	355.60	573.80	0.1200	0.0803	2.4050	0.0570	0.0729	1.7220

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	400	256	178	130	100	79	64	53	44	37	32	28	25	22
	Live	500	500	400	256	178	130	100	79	64	53	44	37	32	28	25	22
	Deflection (L/180)	500	500	500	500	388	244	163	115	83	63	48	38	30	24	20	17
	Deflection (L/240)	500	500	500	500	291	183	122	86	62	47	36	28	22	18	15	12
2 Span	Positive Wind	500	476	275	179	125	92	71	56	45	37	31	27	23	20	17	15
	Live	500	476	275	179	125	92	71	56	45	37	31	27	23	20	17	15
	Deflection (L/180)	500	500	500	500	500	434	291	204	149	111	86	67	54	44	36	30
	Deflection (L/240)	500	500	500	500	500	325	218	153	111	83	64	50	40	33	27	22
3 Span	Positive Wind	500	500	339	221	155	114	88	70	56	47	39	33	29	25	22	19
	Live	500	500	339	221	155	114	88	70	56	47	39	33	29	25	22	19
	Deflection (L/180)	500	500	500	500	500	340	228	160	116	87	67	53	42	34	28	23
	Deflection (L/240)	500	500	500	500	405	255	171	120	87	65	50	39	31	25	21	17
4 Span	Positive Wind	500	500	318	207	145	107	82	65	53	43	36	31	27	23	20	18
	Live	500	500	318	207	145	107	82	65	53	43	36	31	27	23	20	18
	Deflection (L/180)	500	500	500	500	500	361	242	170	123	93	71	56	45	36	30	25
	Deflection (L/240)	500	500	500	500	430	271	181	127	92	69	53	42	33	27	22	18
ASTM E1592 Wind Uplift Testing		98.6	93.9	89.3	83.3	77.3	71.4	65.4	59.4	53.5	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 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.