



# 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.
24	50.0	1.30	0.7800	218.40	351.60	0.0860	0.0561	1.6800	0.0400	0.0479	1.2480

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	497	280	179	124	91	70	55	44	37	31	26	22	19	17	15
	Live	500	497	280	179	124	91	70	55	44	37	31	26	22	19	17	15
	Deflection (L/180)	500	500	500	481	278	175	117	82	60	45	34	27	21	17	14	12
	Deflection (L/240)	500	500	500	360	208	131	88	61	45	33	26	20	16	13	11	9
2 Span	Positive Wind	500	337	197	128	90	66	51	40	32	27	22	19	16	14	12	11
	Live	500	337	197	128	90	66	51	40	32	27	22	19	16	14	12	11
	Deflection (L/180)	500	500	500	500	491	309	207	145	106	79	61	48	38	31	25	21
	Deflection (L/240)	500	500	500	500	368	232	155	109	79	59	46	36	29	23	19	16
3 Span	Positive Wind	500	407	241	158	111	82	63	50	41	34	28	24	21	18	16	14
	Live	500	407	241	158	111	82	63	50	41	34	28	24	21	18	16	14
	Deflection (L/180)	500	500	500	500	384	242	162	114	83	62	48	37	30	24	20	16
	Deflection (L/240)	500	500	500	498	288	181	121	85	62	46	36	28	22	18	15	12
4 Span	Positive Wind	500	385	227	148	104	77	59	47	38	31	26	22	19	17	15	13
	Live	500	385	227	148	104	77	59	47	38	31	26	22	19	17	15	13
	Deflection (L/180)	500	500	500	500	408	257	172	121	88	66	51	40	32	26	21	17
	Deflection (L/240)	500	500	500	500	306	192	129	90	66	49	38	30	24	19	16	13
ASTM E1592 Wind Uplift Testing		69.5	61.1	52.9	49.1	45.2	41.3	37.7	33.8	30.1	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.