



Medallion-Lok 12"

Bare & Painted



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	P _{a_end} lbs/ft.	P _{a_int} lbs/ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.
22	50.0	1.85	1.6590	271.00	801.70	0.1500	0.1054	2.6360	0.0747	0.0961	2.2670

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_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a 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	439	281	195	143	109	86	70	58	48	41	35	31	27	24
	Live	500	500	439	281	195	143	109	86	70	58	48	41	35	31	27	24
	Deflection (L/180)	500	500	500	500	485	305	204	143	104	78	60	47	38	31	25	21
	Deflection (L/240)	500	500	500	500	364	229	153	107	78	59	45	35	28	23	19	16
2 Span	Positive Wind	500	500	363	235	164	121	93	74	60	49	41	35	30	26	23	20
	Live	500	500	363	235	164	121	93	74	60	49	41	35	30	26	23	20
	Deflection (L/180)	500	500	500	500	500	500	369	259	189	142	109	86	68	56	46	38
	Deflection (L/240)	500	500	500	500	500	413	277	194	141	106	82	64	51	42	34	28
3 Span	Positive Wind	500	500	446	291	204	151	116	92	74	61	52	44	38	33	29	26
	Live	500	500	446	291	204	151	116	92	74	61	52	44	38	33	29	26
	Deflection (L/180)	500	500	500	500	500	432	289	203	148	111	85	67	54	43	36	30
	Deflection (L/240)	500	500	500	500	500	324	217	152	111	83	64	50	40	32	27	22
4 Span	Positive Wind	500	500	419	273	191	141	108	86	69	57	48	41	35	31	27	24
	Live	500	500	419	273	191	141	108	86	69	57	48	41	35	31	27	24
	Deflection (L/180)	500	500	500	500	500	458	307	215	157	118	91	71	57	46	38	32
	Deflection (L/240)	500	500	500	500	500	344	230	161	118	88	68	53	43	34	28	24
ASTM E1592 Wind Uplift Testing		104.5	100.0	95.5	90.3	85.0	79.7	74.4	69.2	63.9							

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 2".
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.