



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.
24	50.0	1.42	1.0560	166.70	495.30	0.1074	0.0744	1.8600	0.0517	0.0633	1.3720

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	310	198	137	101	77	61	49	40	34	29	25	22	19	17
	Live	500	500	310	198	137	101	77	61	49	40	34	29	25	22	19	17
	Deflection (L/180)	500	500	500	500	347	218	146	103	75	56	43	34	27	22	18	15
	Deflection (L/240)	500	500	500	450	260	164	110	77	56	42	32	25	20	16	13	11
2 Span	Positive Wind	500	382	220	143	100	73	56	44	36	30	25	21	18	16	14	12
	Live	500	382	220	143	100	73	56	44	36	30	25	21	18	16	14	12
	Deflection (L/180)	500	500	500	500	500	390	261	183	133	100	77	60	48	39	32	27
	Deflection (L/240)	500	500	500	500	465	292	196	137	100	75	58	45	36	29	24	20
3 Span	Positive Wind	500	466	271	177	124	91	70	55	45	37	31	26	23	20	17	15
	Live	500	466	271	177	124	91	70	55	45	37	31	26	23	20	17	15
	Deflection (L/180)	500	500	500	500	485	306	205	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
4 Span	Positive Wind	500	438	255	165	116	85	65	52	42	35	29	25	21	18	16	14
	Live	500	438	255	165	116	85	65	52	42	35	29	25	21	18	16	14
	Deflection (L/180)	500	500	500	500	500	324	217	152	111	83	64	50	40	33	27	22
	Deflection (L/240)	500	500	500	500	386	243	163	114	83	62	48	38	30	24	20	17
ASTM E1592 Uplift Testing		79.3	77.4	75.6	71.2	66.8	62.3	57.9	53.5	49.0							

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.