



Medallion-Lok 18"



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	1.27	0.7040	100.20	305.60	0.0807	0.0521	1.3020	0.0353	0.0435	0.9447

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	385	217	138	96	70	54	42	34	28	24	20	17	15	13	12
	Live	500	385	217	138	96	70	54	42	34	28	24	20	17	15	13	12
	Deflection (L/180)	500	500	500	451	261	164	110	77	56	42	32	25	20	16	13	11
	Deflection (L/240)	500	500	500	338	195	123	82	58	42	31	24	19	15	12	10	8
2 Span	Positive Wind	500	262	151	98	68	50	38	30	25	20	17	14	12	11	9	8
	Live	500	262	151	98	68	50	38	30	25	20	17	14	12	11	9	8
	Deflection (L/180)	500	500	500	500	452	284	190	134	97	73	56	44	35	28	23	19
	Deflection (L/240)	500	500	500	500	339	213	143	100	73	55	42	33	26	21	17	14
3 Span	Positive Wind	500	319	186	121	85	63	48	38	31	25	21	18	15	13	12	10
	Live	500	319	186	121	85	63	48	38	31	25	21	18	15	13	12	10
	Deflection (L/180)	500	500	500	500	354	223	149	104	76	57	44	34	27	22	18	15
	Deflection (L/240)	500	500	500	459	265	167	112	78	57	43	33	26	20	17	14	11
4 Span	Positive Wind	500	300	175	113	79	59	45	35	29	24	20	17	14	13	11	10
	Live	500	300	175	113	79	59	45	35	29	24	20	17	14	13	11	10
	Deflection (L/180)	500	500	500	500	376	236	158	111	81	61	47	36	29	24	19	16
	Deflection (L/240)	500	500	500	487	282	177	119	83	60	45	35	27	22	18	14	12
ASTM E1592 Wind Uplift Testing		66.7	60.3	53.8	48.7	43.6	38.5	33.4	28.3	23.3							

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. F2.1-2 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 1.5".
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.