



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	0.6930	194.10	312.50	0.0770	0.0501	1.4990	0.0350	0.0426	1.1100

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_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	444	249	159	111	81	62	49	39	33	27	23	20	17	15	13
	Live	500	444	249	159	111	81	62	49	39	33	27	23	20	17	15	13
	Deflection (L/180)	500	500	500	430	249	156	105	73	53	40	31	24	19	15	13	10
	Deflection (L/240)	500	500	500	323	186	117	78	55	40	30	23	18	14	11	9	8
2 Span	Positive Wind	500	300	175	114	80	59	45	36	29	24	20	17	15	13	11	10
	Live	500	300	175	114	80	59	45	36	29	24	20	17	15	13	11	10
	Deflection (L/180)	500	500	500	500	436	275	184	129	94	70	54	42	34	27	23	19
	Deflection (L/240)	500	500	500	500	327	206	138	97	70	53	40	32	25	20	17	14
3 Span	Positive Wind	500	362	214	140	99	73	56	44	36	30	25	21	18	16	14	12
	Live	500	362	214	140	99	73	56	44	36	30	25	21	18	16	14	12
	Deflection (L/180)	500	500	500	500	342	215	144	101	73	55	42	33	26	21	18	15
	Deflection (L/240)	500	500	500	443	256	161	108	76	55	41	32	25	20	16	13	11
4 Span	Positive Wind	500	342	201	132	93	68	53	42	34	28	23	20	17	15	13	11
	Live	500	342	201	132	93	68	53	42	34	28	23	20	17	15	13	11
	Deflection (L/180)	500	500	500	500	363	228	153	107	78	58	45	35	28	23	19	15
	Deflection (L/240)	500	500	500	470	272	171	114	80	58	44	34	26	21	17	14	11
ASTM E1592 Wind Uplift Testing		60.2	53.4	46.7	43.4	40.1	36.8	33.5	30.2	26.9							

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.