



Medallion-Lok 16"

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	1.39	1.7040	210.60	778.30	0.1680	0.1111	2.7770	0.0780	0.0960	1.9590

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	421	280	210	168	140	120	105	91	74	61	51	43	37	32	28	25
	Live	421	280	210	168	140	120	105	91	74	61	51	43	37	32	28	25
	Deflection (L/180)	500	500	500	500	500	342	229	161	117	88	67	53	42	34	28	23
	Deflection (L/240)	500	500	500	500	407	256	172	120	88	66	50	40	32	26	21	17
2 Span	Positive Wind	500	374	280	205	143	105	81	64	52	43	36	30	26	23	20	18
	Live	500	374	280	205	143	105	81	64	52	43	36	30	26	23	20	18
	Deflection (L/180)	500	500	500	500	500	500	404	284	207	155	119	94	75	61	50	42
	Deflection (L/240)	500	500	500	500	500	453	303	213	155	116	89	70	56	46	37	31
3 Span	Positive Wind	500	351	263	210	175	131	100	79	64	53	45	38	33	28	25	22
	Live	500	351	263	210	175	131	100	79	64	53	45	38	33	28	25	22
	Deflection (L/180)	500	500	500	500	500	473	317	222	162	121	93	73	59	48	39	33
	Deflection (L/240)	500	500	500	500	500	354	237	166	121	91	70	55	44	36	29	24
4 Span	Positive Wind	500	357	268	214	166	122	94	74	60	50	42	35	31	27	23	21
	Live	500	357	268	214	166	122	94	74	60	50	42	35	31	27	23	21
	Deflection (L/180)	500	500	500	500	500	500	336	236	172	129	99	78	62	51	42	35
	Deflection (L/240)	500	500	500	500	500	376	252	177	129	97	74	58	47	38	31	26
ASTM E1592 Wind Uplift Testing ¹⁵		100.8	94.4	94.0	87.7	81.4	75.1	68.9	62.6	56.3							

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.