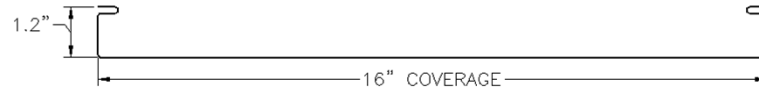




# 138T



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V <sub>a</sub> kip/ft.	P <sub>a_end</sub> lbs/ft.	P <sub>a_int</sub> lbs/ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.
22	50.0	1.52	0.7298	212.55	585.23	0.0578	0.0551	1.6493	0.0285	0.0457	1.1415

- Section properties are calculated in accordance with the 2016 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V<sub>a</sub> is the allowable shear.
- P<sub>a</sub> is the allowable load for web crippling on end & interior supports.
- I<sub>x</sub> is for deflection determination.
- S<sub>e</sub> is for bending.
- M<sub>a</sub> is the allowable bending moment.
- All values are for one foot of panel width.

## Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		0.50	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
Single	Positive Wind	500	500	488	274	175	122	89	68	54	43	36	30	26	22	19	17
	Live	500	500	488	274	175	122	89	68	54	43	36	30	26	22	19	17
	Deflection (L/180)	500	500	500	500	323	186	117	78	55	40	30	23	18	14	11	9
	Deflection (L/240)	500	500	500	473	242	140	88	59	41	30	22	17	13	11	8	7
2 Span	Positive Wind	500	500	310	180	117	82	61	46	37	30	24	21	17	15	13	11
	Live	500	500	310	180	117	82	61	46	37	30	24	21	17	15	13	11
	Deflection (L/180)	500	500	500	500	500	336	211	141	99	72	54	42	33	26	21	17
	Deflection (L/240)	500	500	500	500	435	252	158	106	74	54	40	31	24	19	16	13
3 Span	Positive Wind	500	500	374	221	145	102	75	58	46	37	31	26	22	19	16	14
	Live	500	500	374	221	145	102	75	58	46	37	31	26	22	19	16	14
	Deflection (L/180)	500	500	500	500	455	263	165	111	78	56	42	32	25	20	16	13
	Deflection (L/240)	500	500	500	500	341	197	124	83	58	42	32	24	19	15	12	10
4 Span	Positive Wind	500	500	354	208	136	95	70	54	43	35	29	24	20	18	15	13
	Live	500	500	354	208	136	95	70	54	43	35	29	24	20	18	15	13
	Deflection (L/180)	500	500	500	500	483	279	176	117	82	60	45	34	27	22	17	14
	Deflection (L/240)	500	500	500	500	362	209	132	88	62	45	34	26	20	16	13	11
ASTM E1592 Wind Uplift Testing		NO DATA AVAILABLE															

Notes:

- Allowable uniform loads are based upon equal span lengths.
- Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
- Live is the allowable live or snow load.
- Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
- Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
- The weight of the panel has **NOT** been deducted from the allowable loads.
- Positive wind and Live load values are limited to combined shear & bending using Eq. F2.1-2 of the AISI Specification.
- Values of ASTM E1592 Wind Uplift Testing include a factor of safety of 2.0. Shaded areas are outside of test range. Contact McElroy Metal for more information.
- Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
- Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
- Load Tables are limited to a maximum allowable load of 500 psf.