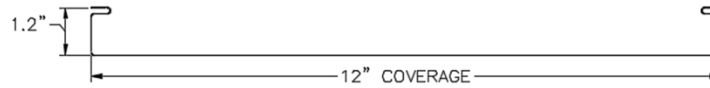




# 138T



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	1.62	0.9730	283.40	780.30	0.0733	0.0726	2.1730	0.0378	0.0606	1.8150

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<sub>a</sub> is the allowable shear.
3. P<sub>a</sub> is the allowable load for web crippling on end & interior supports.
4. I<sub>x</sub> is for deflection determination.
5. S<sub>e</sub> is for bending.
6. M<sub>a</sub> 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															
		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	500	362	231	160	118	90	71	57	47	40	34	29	25	22
	Live	500	500	500	362	231	160	118	90	71	57	47	40	34	29	25	22
	Deflection (L/180)	500	500	500	500	410	237	149	100	70	51	38	29	23	18	15	12
	Deflection (L/240)	500	500	500	500	307	177	112	75	52	38	28	22	17	14	11	9
2 Span	Positive Wind	500	500	477	281	184	130	96	74	58	47	39	33	28	24	21	18
	Live	500	500	477	281	184	130	96	74	58	47	39	33	28	24	21	18
	Deflection (L/180)	500	500	500	500	500	433	272	182	128	93	70	54	42	34	27	22
	Deflection (L/240)	500	500	500	500	500	324	204	137	96	70	52	40	31	25	20	17
3 Span	Positive Wind	500	500	500	342	226	160	119	92	73	59	49	41	35	30	26	23
	Live	500	500	500	342	226	160	119	92	73	59	49	41	35	30	26	23
	Deflection (L/180)	500	500	500	500	500	339	213	143	100	73	55	42	33	26	21	17
	Deflection (L/240)	500	500	500	500	439	254	160	107	75	54	41	31	25	20	16	13
4 Span	Positive Wind	500	500	500	322	213	150	111	86	68	55	46	38	33	28	24	21
	Live	500	500	500	322	213	150	111	86	68	55	46	38	33	28	24	21
	Deflection (L/180)	500	500	500	500	500	360	226	151	106	77	58	45	35	28	23	18
	Deflection (L/240)	500	500	500	500	466	270	170	113	80	58	43	33	26	21	17	14
ASTM E1592 Wind Uplift Testing		NO DATA AVAILABLE															

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. F2.1-2 of the AISI Specification.
8. 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.
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.