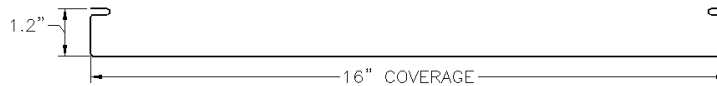




# 138T



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.
24	50.0	1.17	0.5610	131.85	359.78	0.0421	0.0399	1.1948	0.0197	0.0299	0.7478

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	354	199	127	88	65	49	39	31	26	22	18	16	14	12
	Live	500	500	354	199	127	88	65	49	39	31	26	22	18	16	14	12
	Deflection (L/180)	500	500	500	459	235	136	85	57	40	29	22	17	13	10	8	7
	Deflection (L/240)	500	500	500	344	176	102	64	43	30	22	16	12	10	8	6	5
2 Span	Positive Wind	500	435	207	120	77	54	40	30	24	19	16	13	11	10	8	7
	Live	500	435	207	120	77	54	40	30	24	19	16	13	11	10	8	7
	Deflection (L/180)	500	500	500	500	415	240	151	101	71	51	39	30	23	18	15	12
	Deflection (L/240)	500	500	500	500	311	180	113	76	53	38	29	22	17	14	11	9
3 Span	Positive Wind	500	500	253	147	96	67	49	38	30	24	20	17	14	12	11	9
	Live	500	500	253	147	96	67	49	38	30	24	20	17	14	12	11	9
	Deflection (L/180)	500	500	500	500	325	188	118	79	55	40	30	23	18	14	12	9
	Deflection (L/240)	500	500	500	477	244	141	89	59	41	30	22	17	13	11	9	7
4 Span	Positive Wind	500	492	238	138	90	63	46	35	28	23	19	16	13	11	10	9
	Live	500	492	238	138	90	63	46	35	28	23	19	16	13	11	10	9
	Deflection (L/180)	500	500	500	500	345	200	126	84	59	43	32	25	19	15	12	10
	Deflection (L/240)	500	500	500	500	259	150	94	63	44	32	24	18	14	11	9	7
ASTM E1592 Uplift Testing <sup>11</sup>			157.9	135.0	112.1	100.1	88.2	76.2	64.3	52.4	40.4						
ASTM E1592 Uplift Testing <sup>12</sup>			183.8	173.5	163.2	153.0	142.7	132.5	122.2	111.9	101.7						
ASTM E1592 Uplift Testing <sup>13</sup>			208.7	175.4	142.0	126.7	111.3	95.9	80.5	65.1	49.8						

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. H2-1 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 2".
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.
11. With standard 4" long clip
12. With 24 Ga multispans clip
13. With 8" Shingle Recover Clips