



# Maxima ADV 18"

(Bare Galvalume & Painted Galvalume)



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	1.23	0.6880	106.07	303.40	0.1240	0.4335	2.0670	0.0840	0.0695	2.0820

1. Section properties are calculated in accordance with the 2012 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															
		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	500	344	220	153	112	86	68	55	45	38	32	28	24	21	19
	Live	500	500	344	220	153	112	86	68	55	45	38	32	28	24	21	19
	Deflection (L/180)	500	500	500	500	401	252	169	118	86	65	50	39	31	25	21	17
	Deflection (L/240)	500	500	500	500	301	189	127	89	65	48	37	29	23	19	15	13
2 Span	Positive Wind	500	472	293	198	142	106	82	66	53	44	37	32	27	24	21	19
	Live	500	472	293	198	142	106	82	66	53	44	37	32	27	24	21	19
	Deflection (L/180)	500	500	500	500	500	500	342	240	175	131	101	79	63	51	42	35
	Deflection (L/240)	500	500	500	500	500	383	256	180	131	98	76	59	47	38	32	26
3 Span	Positive Wind	500	500	345	237	172	130	101	81	66	55	46	39	34	30	26	23
	Live	500	500	345	237	172	130	101	81	66	55	46	39	34	30	26	23
	Deflection (L/180)	500	500	500	500	500	400	268	188	137	103	79	62	50	40	33	27
	Deflection (L/240)	500	500	500	500	476	300	201	141	102	77	59	46	37	30	25	20
4 Span	Positive Wind	500	500	329	224	162	122	95	76	62	51	43	37	32	28	24	22
	Live	500	500	329	224	162	122	95	76	62	51	43	37	32	28	24	22
	Deflection (L/180)	500	500	500	500	500	424	284	199	145	109	84	66	53	43	35	29
	Deflection (L/240)	500	500	500	500	500	318	213	149	109	82	63	49	39	32	26	22
ASTM E1592 Wind Uplift Testing		135.9	121.7	107.5	97.7	87.9	78.1	68.3	58.5	48.7							

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.