



# 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	0.6870	189.50	303.40	0.1240	0.0690	2.0670	0.0670	0.0653	1.9210

1. Section properties are calculated in accordance with the 2001 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 in Feet															
Span Type	Load Type	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	449	276	185	132	99	76	61	49	41	34	29	25	22	19	17
	Live	500	449	276	185	132	99	76	61	49	41	34	29	25	22	19	17
	Deflection (L/180)	500	500	500	500	500	468	314	220	160	120	93	73	58	47	39	32
	Deflection (L/240)	500	500	500	500	500	351	235	165	120	90	69	54	43	35	29	24
3 Span	Positive Wind	500	500	328	223	161	121	94	75	61	51	43	37	32	27	24	21
	Live	500	500	328	223	161	121	94	75	61	51	43	37	32	27	24	21
	Deflection (L/180)	500	500	500	500	500	367	246	172	126	94	72	57	45	37	30	25
	Deflection (L/240)	500	500	500	500	437	275	184	129	94	71	54	43	34	28	23	19
4 Span	Positive Wind	500	498	311	211	151	114	88	70	57	48	40	34	29	26	23	20
	Live	500	498	311	211	151	114	88	70	57	48	40	34	29	26	23	20
	Deflection (L/180)	500	500	500	500	500	390	261	183	133	100	77	60	48	39	32	27
	Deflection (L/240)	500	500	500	500	464	292	195	137	100	75	58	45	36	29	24	20
ASTM E1592 Wind Uplift Testing		93.6	85.8	78.0	70.2	62.4	58.5	54.6	50.7	46.8							

**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 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.