



# 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.
22	50.0	1.59	1.1760	309.70	497.30	0.1810	0.1025	3.0670	0.0930	0.0934	2.5620

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 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	500	327	227	166	127	100	81	67	56	48	41	36	31	28
	Live	500	500	500	327	227	166	127	100	81	67	56	48	41	36	31	28
	Deflection (L/180)	500	500	500	500	500	368	247	173	126	95	73	57	46	37	30	25
	Deflection (L/240)	500	500	500	500	439	276	185	130	94	71	54	43	34	28	23	19
2 Span	Positive Wind	500	500	388	256	181	134	104	82	67	55	46	40	34	30	26	23
	Live	500	500	388	256	181	134	104	82	67	55	46	40	34	30	26	23
	Deflection (L/180)	500	500	500	500	500	500	450	316	230	173	133	105	84	68	56	46
	Deflection (L/240)	500	500	500	500	500	500	338	237	173	130	100	78	63	51	42	35
3 Span	Positive Wind	500	500	468	313	222	166	128	102	83	69	58	49	43	37	33	29
	Live	500	500	468	313	222	166	128	102	83	69	58	49	43	37	33	29
	Deflection (L/180)	500	500	500	500	500	500	353	247	180	135	104	82	65	53	44	36
	Deflection (L/240)	500	500	500	500	500	395	264	185	135	101	78	61	49	40	33	27
4 Span	Positive Wind	500	500	443	294	209	156	120	95	78	64	54	46	40	35	30	27
	Live	500	500	443	294	209	156	120	95	78	64	54	46	40	35	30	27
	Deflection (L/180)	500	500	500	500	500	500	374	263	191	144	111	87	69	56	46	39
	Deflection (L/240)	500	500	500	500	500	419	281	197	143	108	83	65	52	42	35	29
ASTM E1592 Wind Uplift Testing		135.2	124.5	113.8	103.0	92.3	84.2	76.1	67.9	59.8							

**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.