



# Maxima ADV 16"

(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	1.26	0.7730	213.20	341.30	0.1380	0.0779	2.3340	0.0760	0.0736	2.1620

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	389	248	172	127	97	76	62	51	43	36	31	27	24	21	
	Live	500	500	389	248	172	127	97	76	62	51	43	36	31	27	24	21	
	Deflection (L/180)	500	500	500	500	446	281	188	132	96	72	55	43	35	28	23	19	
	Deflection (L/240)	500	500	500	500	335	211	141	99	72	54	41	32	26	21	17	14	
2 Span	Positive Wind	500	500	311	209	149	111	86	68	56	46	39	33	29	25	22	19	
	Live	500	500	311	209	149	111	86	68	56	46	39	33	29	25	22	19	
	Deflection (L/180)	500	500	500	500	500	500	352	247	180	135	104	82	65	53	44	36	
	Deflection (L/240)	500	500	500	500	500	394	264	185	135	101	78	61	49	40	33	27	
3 Span	Positive Wind	500	500	369	251	181	136	106	84	69	57	48	41	36	31	27	24	
	Live	500	500	369	251	181	136	106	84	69	57	48	41	36	31	27	24	
	Deflection (L/180)	500	500	500	500	500	411	275	193	141	106	81	64	51	41	34	28	
	Deflection (L/240)	500	500	500	500	490	308	206	145	105	79	61	48	38	31	25	21	
4 Span	Positive Wind	500	500	350	237	171	128	99	79	65	54	45	39	33	29	25	22	
	Live	500	500	350	237	171	128	99	79	65	54	45	39	33	29	25	22	
	Deflection (L/180)	500	500	500	500	500	436	292	205	149	112	86	68	54	44	36	30	
	Deflection (L/240)	500	500	500	500	500	327	219	154	112	84	65	51	40	33	27	22	
ASTM E1592 Wind Uplift Testing		155.4	141.5	127.5	114.8	102.2	89.5	76.8	64.1	51.4								

**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 1.72. 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.