



# 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.
22	50.0	1.63	1.3230	348.50	559.50	0.2000	0.1159	3.4700	0.1050	0.1051	2.8820

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	370	257	188	144	114	92	76	64	54	47	41	36	32
	Live	500	500	500	370	257	188	144	114	92	76	64	54	47	41	36	32
	Deflection (L/180)	500	500	500	500	500	407	273	191	139	105	80	63	50	41	34	28
	Deflection (L/240)	500	500	500	500	485	305	204	143	104	78	60	47	38	31	25	21
2 Span	Positive Wind	500	500	437	288	204	151	117	93	75	62	52	45	38	33	29	26
	Live	500	500	437	288	204	151	117	93	75	62	52	45	38	33	29	26
	Deflection (L/180)	500	500	500	500	500	500	352	256	192	148	116	93	76	62	52	
	Deflection (L/240)	500	500	500	500	500	500	376	264	192	144	111	87	70	57	47	39
3 Span	Positive Wind	500	500	500	352	250	187	144	115	93	77	65	56	48	42	37	32
	Live	500	500	500	352	250	187	144	115	93	77	65	56	48	42	37	32
	Deflection (L/180)	500	500	500	500	500	500	393	276	201	151	116	91	73	59	49	40
	Deflection (L/240)	500	500	500	500	500	440	294	207	150	113	87	68	55	44	36	30
4 Span	Positive Wind	500	500	498	331	235	175	135	107	87	72	61	52	45	39	34	30
	Live	500	500	498	331	235	175	135	107	87	72	61	52	45	39	34	30
	Deflection (L/180)	500	500	500	500	500	500	417	293	213	160	123	97	77	63	52	43
	Deflection (L/240)	500	500	500	500	500	467	312	219	160	120	92	72	58	47	39	32
ASTM E1592 Wind Uplift Testing		215.1	187.5	159.8	144.8	129.8	114.7	99.7	84.7	69.7							

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.