



Maxima ADV 12"

(Bare Galvalume & Painted Galvalume)



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	P _{a_end} lbs/ft.	P _{a_int} lbs/ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.
22	50.0	1.77	1.7640	464.60	746.00	0.2525	0.1533	4.5910	0.1400	0.1401	3.8410

- Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V_a is the allowable shear.
- P_a is the allowable load for web crippling on end & interior supports.
- I_x is for deflection determination.
- S_e is for bending.
- M_a is the allowable bending moment.
- 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	489	340	249	191	151	122	101	85	72	62	54	47	42
	Live	500	500	500	489	340	249	191	151	122	101	85	72	62	54	47	42
	Deflection (L/180)	500	500	500	500	500	500	344	242	176	132	102	80	64	52	43	35
	Deflection (L/240)	500	500	500	500	500	386	258	181	132	99	76	60	48	39	32	26
2 Span	Positive Wind	500	500	500	385	272	202	156	123	100	83	70	60	51	45	39	35
	Live	500	500	500	385	272	202	156	123	100	83	70	60	51	45	39	35
	Deflection (L/180)	500	500	500	500	500	500	500	453	330	248	191	150	120	97	80	67
	Deflection (L/240)	500	500	500	500	500	500	484	340	247	186	143	112	90	73	60	50
3 Span	Positive Wind	500	500	500	469	334	249	193	153	125	103	87	74	64	56	49	43
	Live	500	500	500	469	334	249	193	153	125	103	87	74	64	56	49	43
	Deflection (L/180)	500	500	500	500	500	500	500	355	258	194	149	117	94	76	63	52
	Deflection (L/240)	500	500	500	500	500	500	379	266	194	145	112	88	70	57	47	39
4 Span	Positive Wind	500	500	500	442	314	233	180	143	117	97	81	69	60	52	46	41
	Live	500	500	500	442	314	233	180	143	117	97	81	69	60	52	46	41
	Deflection (L/180)	500	500	500	500	500	500	500	377	274	206	159	125	100	81	67	55
	Deflection (L/240)	500	500	500	500	500	500	402	282	206	154	119	93	75	61	50	41
ASTM E1592 Wind Uplift Testing		218.0	205.4	192.7	176.2	159.7	143.2	126.8	110.3	93.8							

Notes:

- Allowable uniform loads are based upon equal span lengths.
- Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
- Live is the allowable live or snow load.
- Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
- Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
- The weight of the panel has **NOT** been deducted from the allowable loads.
- Positive wind and Live load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
- 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.
- Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
- Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
- Load Tables are limited to a maximum allowable load of 500 psf.