



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.
24	50.0	1.36	1.0310	284.30	455.10	0.1769	0.1053	3.1520	0.1013	0.0983	2.8830

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_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a 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	336	233	171	131	103	84	69	58	49	42	37	32	29
	Live	500	500	500	336	233	171	131	103	84	69	58	49	42	37	32	29
	Deflection (L/180)	500	500	500	500	500	360	241	169	123	92	71	56	45	36	30	25
	Deflection (L/240)	500	500	500	500	429	270	181	127	92	69	53	42	33	27	22	18
2 Span	Positive Wind	500	500	415	278	199	148	115	91	74	62	52	44	38	33	29	26
	Live	500	500	415	278	199	148	115	91	74	62	52	44	38	33	29	26
	Deflection (L/180)	500	500	500	500	500	500	457	321	234	176	135	106	85	69	57	47
	Deflection (L/240)	500	500	500	500	500	500	343	241	175	132	101	79	64	52	42	35
3 Span	Positive Wind	500	500	492	335	241	182	141	113	92	76	64	55	48	41	36	32
	Live	500	500	492	335	241	182	141	113	92	76	64	55	48	41	36	32
	Deflection (L/180)	500	500	500	500	500	500	358	251	183	137	106	83	66	54	44	37
	Deflection (L/240)	500	500	500	500	500	401	268	188	137	103	79	62	50	40	33	28
4 Span	Positive Wind	500	500	467	317	228	171	133	106	86	72	60	52	44	39	34	30
	Live	500	500	467	317	228	171	133	106	86	72	60	52	44	39	34	30
	Deflection (L/180)	500	500	500	500	500	500	380	267	194	146	112	88	71	57	47	39
	Deflection (L/240)	500	500	500	500	500	426	285	200	146	109	84	66	53	43	35	29
ASTM E1592 Wind Uplift Testing		211.9	183.6	155.3	142.6	129.9	117.2	104.4	91.7	79.0	NO TEST DATA AVAILABLE						

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 1.7. 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.