



TECHNICAL BULLETIN

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Maxima 224 (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	1.19	0.5155	79.65	227.60	0.1210	0.0676	2.0220	0.0565	0.0502	1.5035

- Section properties are calculated in accordance with the 2007 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	337	215	149	110	84	66	53	44	37	31	27	23	21	18
	Live	500	500	337	215	149	110	84	66	53	44	37	31	27	23	21	18
	Deflection (L/180)	500	500	500	500	391	246	165	116	84	63	48	38	30	25	20	17
	Deflection (L/240)	500	500	500	500	293	185	123	87	63	47	36	28	23	18	15	12
2 Span	Positive Wind	500	346	214	144	103	77	59	47	38	32	27	23	20	17	15	13
	Live	500	346	214	144	103	77	59	47	38	32	27	23	20	17	15	13
	Deflection (L/180)	500	500	500	500	500	435	291	205	149	112	86	68	54	44	36	30
	Deflection (L/240)	500	500	500	500	500	326	218	153	112	84	64	51	40	33	27	22
3 Span	Positive Wind	500	399	253	173	125	94	73	58	48	40	33	28	25	21	19	17
	Live	500	399	253	173	125	94	73	58	48	40	33	28	25	21	19	17
	Deflection (L/180)	500	500	500	500	500	341	228	160	117	87	67	53	42	34	28	23
	Deflection (L/240)	500	500	500	500	406	256	171	120	87	65	50	39	32	26	21	17
4 Span	Positive Wind	500	382	240	163	118	88	69	55	45	37	31	27	23	20	18	15
	Live	500	382	240	163	118	88	69	55	45	37	31	27	23	20	18	15
	Deflection (L/180)	500	500	500	500	500	362	242	170	124	93	71	56	45	36	30	25
	Deflection (L/240)	500	500	500	500	431	271	182	127	93	70	53	42	33	27	22	18
ASTM E1592 Wind Uplift Testing		NO TEST DATA AVAILABLE															

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 2.0. 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.

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