



# Maxima 324

(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	1.27	0.3610	72.95	225.45	0.2825	0.1062	3.1795	0.1475	0.0893	2.6730

- Section properties are calculated in accordance with the 2007 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V<sub>a</sub> is the allowable shear.
- P<sub>a</sub> is the allowable load for web crippling on end & interior supports.
- I<sub>x</sub> is for deflection determination.
- S<sub>e</sub> is for bending.
- M<sub>a</sub> 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	481	361	288	235	173	132	104	84	70	58	50	43	37	33	29
	Live	500	481	361	288	235	173	132	104	84	70	58	50	43	37	33	29
	Deflection (L/180)	500	500	500	500	500	500	385	270	197	148	114	89	71	58	48	40
	Deflection (L/240)	500	500	500	500	500	431	289	203	148	111	85	67	53	43	36	30
2 Span	Positive Wind	500	346	242	179	138	109	88	72	60	51	44	38	33	29	25	23
	Live	500	346	242	179	138	109	88	72	60	51	44	38	33	29	25	23
	Deflection (L/180)	500	500	500	500	500	500	496	362	272	209	164	131	107	88	73	
	Deflection (L/240)	500	500	500	500	500	500	500	372	271	204	157	123	98	80	66	55
3 Span	Positive Wind	500	371	264	199	155	124	102	84	71	61	52	45	40	35	31	28
	Live	500	371	264	199	155	124	102	84	71	61	52	45	40	35	31	28
	Deflection (L/180)	500	500	500	500	500	500	500	389	283	213	164	129	103	84	69	57
	Deflection (L/240)	500	500	500	500	500	500	415	291	212	159	123	96	77	63	51	43
4 Span	Positive Wind	500	364	258	193	150	120	97	81	68	58	49	43	37	33	29	26
	Live	500	364	258	193	150	120	97	81	68	58	49	43	37	33	29	26
	Deflection (L/180)	500	500	500	500	500	500	500	413	301	226	174	137	109	89	73	61
	Deflection (L/240)	500	500	500	500	500	500	441	309	225	169	130	102	82	66	55	45
ASTM E1592 Wind Uplift Testing		136.1	123.4	110.6	99.4	88.2	77.0	65.8	54.5	43.3							

**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 1.76. 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.