



Maxima 324

(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	1.64	0.8105	121.05	369.95	0.4015	0.1531	4.5820	0.2000	0.1246	3.7290

1. Section properties are calculated in accordance with the 2007 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	488	339	249	190	150	122	100	84	72	62	54	47	42
	Live	500	500	500	488	339	249	190	150	122	100	84	72	62	54	47	42
	Deflection (L/180)	500	500	500	500	500	500	500	385	280	210	162	127	102	83	68	57
	Deflection (L/240)	500	500	500	500	500	500	411	288	210	158	121	95	76	62	51	42
2 Span	Positive Wind	500	500	448	315	232	177	140	112	92	77	65	56	48	42	37	33
	Live	500	500	448	315	232	177	140	112	92	77	65	56	48	42	37	33
	Deflection (L/180)	500	500	500	500	500	500	500	500	380	293	230	184	150	123	103	
	Deflection (L/240)	500	500	500	500	500	500	500	500	379	285	219	172	138	112	92	77
3 Span	Positive Wind	500	500	500	365	273	211	168	136	112	94	80	69	60	52	46	41
	Live	500	500	500	365	273	211	168	136	112	94	80	69	60	52	46	41
	Deflection (L/180)	500	500	500	500	500	500	500	500	396	298	229	180	144	117	96	80
	Deflection (L/240)	500	500	500	500	500	500	500	408	297	223	172	135	108	88	72	60
4 Span	Positive Wind	500	500	491	350	261	201	159	128	106	89	75	65	56	49	43	38
	Live	500	500	491	350	261	201	159	128	106	89	75	65	56	49	43	38
	Deflection (L/180)	500	500	500	500	500	500	500	500	421	316	243	191	153	124	102	85
	Deflection (L/240)	500	500	500	500	500	500	500	433	315	237	182	143	115	93	77	64
ASTM E1592 Wind Uplift Testing		69	61	52	46	43	41	39	38	36							

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 2.0. 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.