Marquee-Lok

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	1.26	0.5840	301.20	478.80	0.0185	0.0317	0.9480	0.0423	0.0504	1.5080

1. Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. Va is the allowable shear.
3. Pa is the allowable load for web crippling on end & interior supports.
4. Ix is for deflection determination.
5. Se is for bending.
6. Ma is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	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	7.92	8.00
Single	Positive Wind	500	280	158	101	70	51	39	31	25	20	17	14	12	11	10	9
	Live	500	280	158	101	70	51	39	31	25	20	17	14	12	11	10	9
	Deflection (L/180)	500	479	202	103	59	37	25	17	12	9	7	5	4	3	3	3
	Deflection (L/240)	500	359	151	77	44	28	18	13	9	7	5	4	3	2	2	2
2 Span	Positive Wind	383	255	191	147	105	78	60	48	39	32	27	23	20	17	15	15
	Live	383	255	191	147	105	78	60	48	39	32	27	23	20	17	15	15
	Deflection (L/180)	500	500	500	409	237	149	100	70	51	38	29	23	18	15	12	12
	Deflection (L/240)	500	500	500	307	177	111	75	52	38	28	22	17	13	11	9	9
3 Span	Positive Wind	435	290	217	158	109	80	61	48	39	32	27	23	20	17	15	15
	Live	435	290	217	158	109	80	61	48	39	32	27	23	20	17	15	15
	Deflection (L/180)	500	500	500	320	185	116	78	55	40	30	23	18	14	11	10	9
	Deflection (L/240)	500	500	470	240	139	87	58	41	30	22	17	13	10	8	7	7
4 Span	Positive Wind	418	279	209	163	113	83	63	50	40	33	28	24	20	18	16	15
	Live	418	279	209	163	113	83	63	50	40	33	28	24	20	18	16	15
	Deflection (L/180)	500	500	500	340	197	124	83	58	42	31	24	19	15	12	10	10
	Deflection (L/240)	500	500	499	255	147	93	62	43	31	23	18	14	11	9	8	7
ASTM E1592 Wind Uplift Testing		36.4	35.4	34.5	33.5	32.5	31.5	30.6	29.6	28.6	26.8	25.0	23.3	21.5	19.7	18.2	

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.