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.
22	50.0	1.64	0.7580	496.50	779.50	0.0270	0.0488	1.4600	0.0565	0.0672	2.0110

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	432	243	155	108	79	60	48	38	32	27	23	19	17	15	15
	Live	500	432	243	155	108	79	60	48	38	32	27	23	19	17	15	15
	Deflection (L/180)	500	500	295	151	87	55	36	25	18	14	10	8	6	5	4	4
	Deflection (L/240)	500	500	221	113	65	41	27	19	14	10	8	6	5	4	3	3
2 Span	Positive Wind	500	415	293	196	139	104	80	64	52	43	36	31	27	23	21	20
	Live	500	415	293	196	139	104	80	64	52	43	36	31	27	23	21	20
	Deflection (L/180)	500	500	500	500	325	205	137	96	70	52	40	32	25	20	17	17
	Deflection (L/240)	500	500	500	421	244	153	103	72	52	39	30	24	19	15	13	12
3 Span	Positive Wind	500	472	349	236	168	124	95	75	60	50	42	35	31	27	24	23
	Live	500	472	349	236	168	124	95	75	60	50	42	35	31	27	24	23
	Deflection (L/180)	500	500	500	440	255	160	107	75	55	41	31	25	20	16	13	13
	Deflection (L/240)	500	500	500	330	191	120	80	56	41	31	23	18	15	12	10	10
4 Span	Positive Wind	500	454	331	223	160	120	93	74	60	50	42	36	31	27	24	24
	Live	500	454	331	223	160	120	93	74	60	50	42	36	31	27	24	24
	Deflection (L/180)	500	500	500	467	270	170	114	80	58	43	33	26	21	17	14	14
	Deflection (L/240)	500	500	500	350	203	127	85	60	43	32	25	19	15	12	11	10
ASTM E1592 Wind Uplift Testing		106.6	99.8	93.0	86.1	79.3	72.5	65.7	58.8	52.0	47.6	43.1	38.6	34.2	29.7	26.0	

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.