



Mesa

Painted Galvalume & Bare Galvanized



SECTION PROPERTIES				TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/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.
29	80.0	0.66	0.3880	0.0100	0.0163	0.5840	0.0080	0.0320	0.5410

1. Section properties are calculated with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. I_x is for deflection determination.
4. S_e is for bending.
5. M_a is the allowable bending moment.
6. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		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	9.00
Single	Positive Wind	173	97	62	43	31	24	19	15	12	10	9	7	6	6	5	4
	Negative Wind	160	90	57	40	29	22	17	14	11	10	8	7	6	5	4	4
	Live	173	97	62	43	31	24	19	15	12	10	9	7	6	6	5	4
	Deflection (L/180)	258	109	55	32	20	13	9	6	5	4	3	2	2	1	1	1
	Deflection (L/240)	194	81	41	24	15	10	7	5	3	3	2	1	1	1	1	0
2 Span	Positive Wind	149	86	56	39	29	22	17	14	11	9	8	7	6	5	4	4
	Negative Wind	159	92	60	42	31	24	19	15	12	10	9	7	6	6	5	4
	Live	149	86	56	39	29	22	17	14	11	9	8	7	6	5	4	4
	Deflection (L/180)	500	236	121	70	44	29	20	15	11	8	6	5	4	3	3	2
	Deflection (L/240)	421	177	90	52	33	22	15	11	8	6	5	4	3	2	2	1
3 Span	Positive Wind	181	106	69	48	36	27	22	17	14	12	10	9	7	7	6	5
	Negative Wind	193	113	74	52	38	29	23	19	15	13	11	9	8	7	6	5
	Live	181	106	69	48	36	27	22	17	14	12	10	9	7	7	6	5
	Deflection (L/180)	439	185	95	54	34	23	16	11	8	6	5	4	3	2	2	2
	Deflection (L/240)	329	139	71	41	25	17	12	8	6	5	4	3	2	2	1	1
4 Span	Positive Wind	171	99	65	45	33	25	20	16	13	11	9	8	7	6	5	5
	Negative Wind	182	107	69	49	36	27	22	17	14	12	10	9	8	7	6	5
	Live	171	99	65	45	33	25	20	16	13	11	9	8	7	6	5	5
	Deflection (L/180)	466	196	100	58	36	24	17	12	9	7	5	4	3	3	2	2
	Deflection (L/240)	350	147	75	43	27	18	12	9	7	5	4	3	2	2	1	1

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. Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
4. Live is the allowable live or snow load.
5. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has **NOT** been deducted from the allowable loads.
8. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
9. Web crippling has **NOT** been checked for this panel.
10. Load Tables are limited to a maximum allowable load of 500 psf.