



TECHNICAL BULLETIN

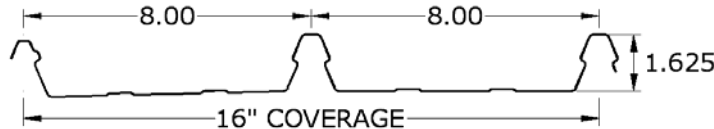
Issue Date : January 22, 2007

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No. 07-285-07

Mirage

(Bare Galvalume & Painted Galvalume)



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.
24	50.0	1.38	1.4475	0.1268	0.1011	3.0270	0.0713	0.0798	2.3630

1. Section properties are calculated with the 2007 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															
		1.00	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	322	224	164	126	99	80	66	56	47	41	35	31	27
	Live	500	500	500	322	224	164	126	99	80	66	56	47	41	35	31	27
	Deflection (L/180)	500	500	500	500	410	258	173	121	88	66	51	40	32	26	21	18
	Deflection (L/240)	500	500	500	500	307	193	129	91	66	49	38	30	24	19	16	13
2 Span	Positive Wind	500	500	372	243	170	126	97	76	62	51	43	37	31	27	24	21
	Live	500	500	372	243	170	126	97	76	62	51	43	37	31	27	24	21
	Deflection (L/180)	500	500	500	500	500	486	325	228	166	125	96	75	60	49	40	33
	Deflection (L/240)	500	500	500	500	500	364	244	171	125	93	72	56	45	37	30	25
3 Span	Positive Wind	500	500	455	299	211	156	120	95	77	64	54	46	39	34	30	27
	Live	500	500	455	299	211	156	120	95	77	64	54	46	39	34	30	27
	Deflection (L/180)	500	500	500	500	500	380	255	179	130	98	75	59	47	38	31	26
	Deflection (L/240)	500	500	500	500	453	285	191	134	98	73	56	44	35	29	23	19
4 Span	Positive Wind	500	500	428	281	197	146	112	89	72	60	50	43	37	32	28	25
	Live	500	500	428	281	197	146	112	89	72	60	50	43	37	32	28	25
	Deflection (L/180)	500	500	500	500	500	404	270	190	138	104	80	63	50	41	33	28
	Deflection (L/240)	500	500	500	500	481	303	203	142	104	78	60	47	37	30	25	21
ASTM E1592 Wind Uplift Testing		70	47	37	32	29	27	24	22	20							

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. Web crippling has **NOT** been checked for this panel.
10. Load Tables are limited to a maximum allowable load of 500 psf.

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