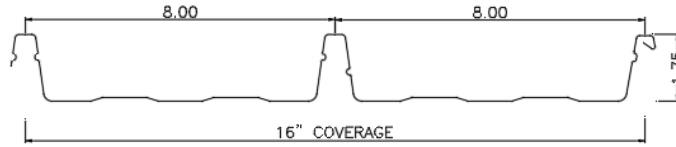




# Mirage II

(Bare Galvalume & Painted Galvalume)



SECTION PROPERTIES				TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V <sub>a</sub> kip/ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.
24	50.0	1.42	1.5030	0.1530	0.1193	3.5690	0.1350	0.2300	3.4200

1. Section properties are calculated with the 2016 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V<sub>a</sub> is the allowable shear.
3. I<sub>x</sub> is for deflection determination.
4. S<sub>e</sub> is for bending.
5. M<sub>a</sub> 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	380	264	194	148	117	95	78	66	56	48	42	37	32
	Live	500	500	500	380	264	194	148	117	95	78	66	56	48	42	37	32
	Deflection (L/180)	500	500	500	500	495	311	208	146	106	80	61	48	38	31	26	21
	Deflection (L/240)	500	500	500	500	371	233	156	110	80	60	46	36	29	23	19	16
2 Span	Positive Wind	500	500	500	341	241	179	138	110	89	74	62	53	46	40	35	31
	Live	500	500	500	341	241	179	138	110	89	74	62	53	46	40	35	31
	Deflection (L/180)	500	500	500	500	500	500	473	332	242	182	140	110	88	71	59	49
	Deflection (L/240)	500	500	500	500	500	500	355	249	181	136	105	82	66	53	44	37
3 Span	Positive Wind	500	500	500	415	296	221	171	136	111	92	77	66	57	50	44	39
	Live	500	500	500	415	296	221	171	136	111	92	77	66	57	50	44	39
	Deflection (L/180)	500	500	500	500	500	500	371	260	190	142	109	86	69	56	46	38
	Deflection (L/240)	500	500	500	500	500	415	278	195	142	107	82	64	51	42	34	29
4 Span	Positive Wind	500	500	500	391	278	207	160	127	104	86	72	62	53	46	41	36
	Live	500	500	500	391	278	207	160	127	104	86	72	62	53	46	41	36
	Deflection (L/180)	500	500	500	500	500	500	393	276	201	151	116	91	73	59	49	41
	Deflection (L/240)	500	500	500	500	500	441	295	207	151	113	87	68	55	44	36	30
ASTM E1592 Wind Uplift Testing <sup>7,10</sup>		64.1	59.3	55.6	51.8	48.1	44.4	40.6	36.9	33.2							
ASTM E1592 Wind Uplift Testing <sup>11</sup>				150.1	141.2	132.2	123.3	114.3	105.4	96.4							

**Notes:**

1. Allowable uniform loads are based upon equal span lengths.
2. Live is the allowable live or snow load.
3. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
4. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
5. The weight of the panel has **NOT** been deducted from the allowable loads.
6. Positive wind and Live load values are limited to combined shear & bending using Eq. H2-1 of the AISI Specification.
7. Values of ASTM E1592 Wind Uplift Testing include a factor of safety of 1.67 at 1'-0" o.c. A factor of safety of 1.7 is used otherwise. Shaded areas are outside of test range. Contact McElroy Metal for more information.
8. Web crippling has **NOT** been checked for this panel.
9. Load Tables are limited to a maximum allowable load of 500 psf.
10. ASTM E1592 Uplift values are for panel failures only, anchor failures must be separately calculated for each substrate thickness/fastener type.
11. S-5! R465 WindClamps at Each Clip & (4) fasteners minimum at each clip. Values of ASTM E1592 Wind Uplift Testing include a factor of safety of 1.87.