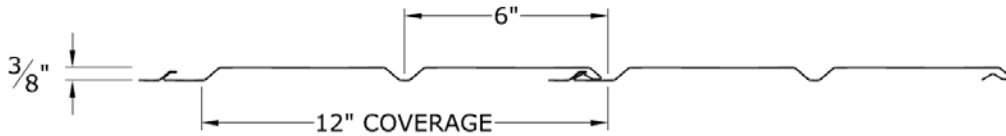




Matrix

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	1.27	0.5360	0.0043	0.0205	0.6140	0.0068	0.0231	0.6910

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															
		1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	5.00
Single	Positive Wind	409	261	181	133	102	80	65	54	45	38	33	29	25	22	20	16
	Live	409	261	181	133	102	80	65	54	45	38	33	29	25	22	20	16
	Deflection (L/180)	375	192	111	70	46	32	24	18	13	10	8	7	5	4	4	3
	Deflection (L/240)	281	144	83	52	35	24	18	13	10	8	6	5	4	3	3	2
2 Span	Positive Wind	405	270	192	143	111	88	72	59	50	43	37	32	28	25	22	18
	Live	405	270	192	143	111	88	72	59	50	43	37	32	28	25	22	18
	Deflection (L/180)	500	500	346	218	146	102	74	56	43	34	27	22	18	15	12	9
	Deflection (L/240)	500	448	259	163	109	76	56	42	32	25	20	16	13	11	9	7
3 Span	Positive Wind	483	327	235	176	137	109	89	74	62	53	46	40	35	31	28	22
	Live	483	327	235	176	137	109	89	74	62	53	46	40	35	31	28	22
	Deflection (L/180)	500	468	271	170	114	80	58	44	33	26	21	17	14	11	10	7
	Deflection (L/240)	500	351	203	128	85	60	43	33	25	20	16	13	10	8	7	5
4 Span	Positive Wind	459	309	221	165	128	102	83	69	58	50	43	37	33	29	26	21
	Live	459	309	221	165	128	102	83	69	58	50	43	37	33	29	26	21
	Deflection (L/180)	500	497	287	181	121	85	62	46	35	28	22	18	15	12	10	7
	Deflection (L/240)	500	373	215	135	91	63	46	35	26	21	16	13	11	9	7	5
ASTM E1592 Testing		125.9	120.4	115.0	109.5	104.1	98.6	93.2	87.8	82.3	77.1	71.9	66.7	61.5	56.3	51.1	40.7

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 Testing include a factor of safety of 1.79. 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.