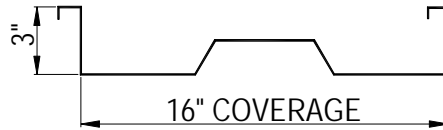




MSR Panel

(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.
24	50.0	1.54	0.5530	195.80	327.50	0.3620	0.1652	4.9440	0.2830	0.2071	5.2060

1. Section properties are calculated in accordance with the 2007 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00
Single	Positive Wind	162	131	108	91	78	67	58	51	45	40	36	32	29	27	24	22
	Negative Wind	171	138	114	96	82	70	61	54	48	42	38	34	31	28	26	24
	Live	162	131	108	91	78	67	58	51	45	40	36	32	29	27	24	22
	Deflection (L/180)	347	253	190	146	115	92	75	61	51	43	36	31	27	23	20	18
	Deflection (L/240)	260	189	142	109	86	69	56	46	38	32	27	23	20	17	15	13
2 Span	Positive Wind	129	109	93	80	70	61	54	48	43	39	35	32	29	27	24	22
	Negative Wind	125	105	90	77	67	59	52	46	41	37	34	30	28	25	23	21
	Live	129	109	93	80	70	61	54	48	43	39	35	32	29	27	24	22
	Deflection (L/180)	500	500	408	314	247	197	160	132	110	93	79	67	58	51	44	39
	Deflection (L/240)	500	407	306	235	185	148	120	99	82	69	59	50	43	38	33	29
3 Span	Positive Wind	148	126	108	94	83	73	65	58	52	47	43	39	35	32	30	28
	Negative Wind	144	122	105	91	80	70	62	56	50	45	41	37	34	31	29	26
	Live	148	126	108	94	83	73	65	58	52	47	43	39	35	32	30	28
	Deflection (L/180)	500	425	319	246	193	155	126	103	86	72	62	53	45	39	34	30
	Deflection (L/240)	437	319	239	184	145	116	94	77	64	54	46	39	34	29	26	23
4 Span	Positive Wind	142	121	104	90	79	69	61	55	49	44	40	37	33	31	28	26
	Negative Wind	138	117	100	87	76	67	59	53	47	42	38	35	32	29	27	25
	Live	142	121	104	90	79	69	61	55	49	44	40	37	33	31	28	26
	Deflection (L/180)	500	451	339	261	205	164	133	110	91	77	65	56	48	42	37	32
	Deflection (L/240)	464	338	254	196	154	123	100	82	68	58	49	42	36	31	27	24

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. Load Tables are limited to a maximum allowable load of 500 psf.
10. Web crippling is not applicable.