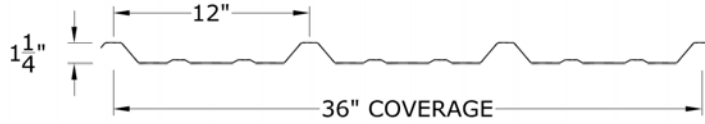




R-Panel

(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	1.10	0.8090	218.90	338.30	0.0550	0.0570	1.7070	0.0430	0.0789	1.7760

1. Section properties are calculated in accordance with the 2004 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															
		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	500	284	182	126	92	71	56	45	37	31	26	23	20	17	15	14
	Negative Wind	500	296	189	131	96	74	58	47	39	32	28	24	21	18	16	14
	Live	500	284	182	126	92	71	56	45	37	31	26	23	20	17	15	14
	Deflection (L/180)	500	500	307	178	112	75	52	38	28	22	17	14	11	9	7	6
	Deflection (L/240)	500	450	230	133	84	56	39	28	21	16	13	10	8	7	5	4
2 Span	Positive Wind	449	269	177	125	93	72	57	46	38	32	27	23	20	18	16	14
	Negative Wind	436	260	171	121	90	69	55	44	37	31	26	23	20	17	15	13
	Live	449	269	177	125	93	72	57	46	38	32	27	23	20	18	16	14
	Deflection (L/180)	500	500	500	382	240	161	113	82	62	47	37	30	24	20	16	14
	Deflection (L/240)	500	500	495	286	180	120	84	61	46	35	28	22	18	15	12	10
3 Span	Positive Wind	500	324	216	154	115	89	71	57	47	40	34	29	26	22	20	18
	Negative Wind	500	314	209	149	111	85	68	55	46	38	33	28	25	22	19	17
	Live	500	324	216	154	115	89	71	57	47	40	34	29	26	22	20	18
	Deflection (L/180)	500	500	500	299	188	126	88	64	48	37	29	23	19	15	13	11
	Deflection (L/240)	500	500	387	224	141	94	66	48	36	28	22	17	14	11	9	8
4 Span	Positive Wind	500	306	204	145	108	83	66	54	44	37	32	27	24	21	18	16
	Negative Wind	491	297	197	140	104	80	64	52	43	36	31	26	23	20	18	16
	Live	500	306	204	145	108	83	66	54	44	37	32	27	24	21	18	16
	Deflection (L/180)	500	500	500	317	200	134	94	68	51	39	31	25	20	16	13	11
	Deflection (L/240)	500	500	411	238	150	100	70	51	38	29	23	18	15	12	10	8

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. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
11. Load Tables are limited to a maximum allowable load of 500 psf.