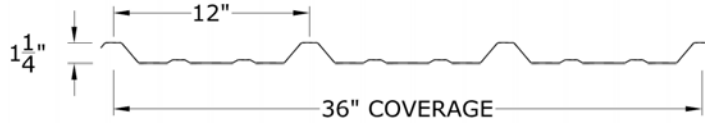




# R-Panel

(Bare Galvalume & Painted Galvalume)



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V <sub>a</sub> kip/ft.	P <sub>a,end</sub> lbs/ft.	P <sub>a,int</sub> lbs/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.
22	50.0	1.42	1.2640	357.30	557.20	0.0800	0.0835	2.5000	0.0600	0.1158	2.3500

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<sub>a</sub> is the allowable shear.
3. P<sub>a</sub> is the allowable load for web crippling on end & interior supports.
4. I<sub>x</sub> is for deflection determination.
5. S<sub>e</sub> is for bending.
6. M<sub>a</sub> 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	416	266	185	136	104	82	66	55	46	39	34	29	26	23	20
	Negative Wind	500	391	250	174	127	97	77	62	51	43	37	31	27	24	21	19
	Live	500	416	266	185	136	104	82	66	55	46	39	34	29	26	23	20
	Deflection (L/180)	500	500	447	258	163	109	76	55	42	32	25	20	16	13	11	9
	Deflection (L/240)	500	500	335	194	122	81	57	41	31	24	19	15	12	10	8	7
2 Span	Positive Wind	500	365	239	168	124	96	76	61	51	43	36	31	27	24	21	19
	Negative Wind	500	385	253	178	132	102	80	65	54	45	39	33	29	25	22	20
	Live	500	365	239	168	124	96	76	61	51	43	36	31	27	24	21	19
	Deflection (L/180)	500	500	500	500	343	230	161	117	88	68	53	42	34	28	23	20
	Deflection (L/240)	500	500	500	409	257	172	121	88	66	51	40	32	26	21	17	15
3 Span	Positive Wind	500	443	293	207	154	119	94	77	63	53	45	39	34	30	26	24
	Negative Wind	500	466	309	219	163	126	100	81	67	57	48	42	36	32	28	25
	Live	500	443	293	207	154	119	94	77	63	53	45	39	34	30	26	24
	Deflection (L/180)	500	500	500	427	269	180	126	92	69	53	42	33	27	22	18	15
	Deflection (L/240)	500	500	500	320	201	135	95	69	52	40	31	25	20	16	14	11
4 Span	Positive Wind	500	418	275	194	144	111	88	72	59	50	42	37	32	28	25	22
	Negative Wind	500	440	291	206	153	118	94	76	63	53	45	39	34	30	26	23
	Live	500	418	275	194	144	111	88	72	59	50	42	37	32	28	25	22
	Deflection (L/180)	500	500	500	453	285	191	134	98	73	56	44	35	29	23	19	16
	Deflection (L/240)	500	500	500	340	214	143	100	73	55	42	33	26	21	17	14	12

**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.