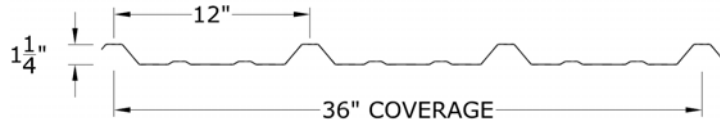




# R-Panel PB

(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.
24	50.0	1.13	0.9440	255.40	394.70	0.0570	0.0590	1.7700	0.0440	0.0829	1.8100

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	295	188	131	96	73	58	47	39	32	27	24	20	18	16	14
	Negative Wind	500	301	193	134	98	75	59	48	39	33	28	24	21	18	16	14
	Live	500	295	188	131	96	73	58	47	39	32	27	24	20	18	16	14
	Deflection (L/180)	500	500	318	184	116	77	54	39	29	23	18	14	11	9	8	6
	Deflection (L/240)	500	467	239	138	87	58	41	29	22	17	13	10	8	7	6	5
2 Span	Positive Wind	473	280	183	129	96	73	58	47	39	33	28	24	21	18	16	14
	Negative Wind	465	274	180	126	94	72	57	46	38	32	27	23	20	18	16	14
	Live	473	280	183	129	96	73	58	47	39	33	28	24	21	18	16	14
	Deflection (L/180)	500	500	500	393	247	166	116	85	63	49	38	30	25	20	17	14
	Deflection (L/240)	500	500	500	295	185	124	87	63	47	36	29	23	18	15	12	10
3 Span	Positive Wind	500	340	225	159	118	91	72	59	49	41	35	30	26	23	20	18
	Negative Wind	500	333	220	156	116	89	71	57	48	40	34	29	26	22	20	18
	Live	500	340	225	159	118	91	72	59	49	41	35	30	26	23	20	18
	Deflection (L/180)	500	500	500	308	194	130	91	66	50	38	30	24	19	16	13	11
	Deflection (L/240)	500	500	399	231	145	97	68	49	37	28	22	18	14	12	10	8
4 Span	Positive Wind	500	320	211	149	111	85	68	55	45	38	33	28	24	21	19	17
	Negative Wind	500	314	207	146	108	84	66	54	44	37	32	27	24	21	18	16
	Live	500	320	211	149	111	85	68	55	45	38	33	28	24	21	19	17
	Deflection (L/180)	500	500	500	327	206	138	97	70	53	40	32	25	20	17	14	12
	Deflection (L/240)	500	500	424	245	154	103	72	53	39	30	24	19	15	12	10	9

**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.