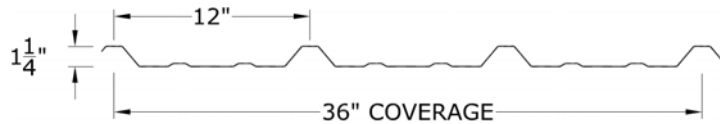




R-Panel PB

(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.
22	50.0	1.47	1.4740	416.80	650.00	0.0800	0.0858	2.5700	0.0600	0.1206	2.3900

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	428	274	190	139	107	84	68	56	47	40	34	30	26	23	21
	Negative Wind	500	398	254	177	130	99	78	63	52	44	37	32	28	24	22	19
	Live	500	428	274	190	139	107	84	68	56	47	40	34	30	26	23	21
	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	377	246	172	127	98	77	63	52	43	37	32	28	24	21	19
	Negative Wind	500	402	263	185	136	105	83	67	56	47	40	34	30	26	23	21
	Live	500	377	246	172	127	98	77	63	52	43	37	32	28	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	461	303	213	158	121	96	78	65	54	46	40	35	30	27	24
	Negative Wind	500	490	323	228	169	130	103	84	69	58	50	43	37	33	29	26
	Live	500	461	303	213	158	121	96	78	65	54	46	40	35	30	27	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	434	284	200	148	114	90	73	60	51	43	37	32	28	25	22
	Negative Wind	500	462	303	214	158	122	97	78	65	55	46	40	35	31	27	24
	Live	500	434	284	200	148	114	90	73	60	51	43	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.