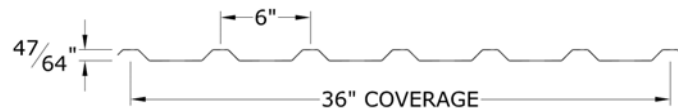


# TECHNICAL BULLETIN

Issue Date : January 29, 2013

No. 07-338-13

## U-Panel PB (Bare & Painted Galvalume)



GAUGE	FY (KSI)	WEIGHT (PSF)	SECTION PROPERTIES			TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
			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	1.44	1.5050	750.40	1124.40	0.0367	0.0734	2.1970	0.0267	0.0735	2.0830

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<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	366	234	162	119	91	72	58	48	40	34	29	26	22	20	18
	Negative Wind	500	347	222	154	113	86	68	55	45	38	32	28	24	21	19	17
	Live	500	366	234	162	119	91	72	58	48	40	34	29	26	22	20	18
	Deflection (L/180)	500	400	205	118	74	50	35	25	19	14	11	9	7	6	5	4
	Deflection (L/240)	500	300	153	89	56	37	26	19	14	11	8	7	5	4	3	3
2 Span	Positive Wind	500	333	216	151	111	85	68	55	45	38	32	28	24	21	19	17
	Negative Wind	500	350	227	159	117	90	71	58	48	40	34	29	25	22	20	18
	Live	500	333	216	151	111	85	68	55	45	38	32	28	24	21	19	17
	Deflection (L/180)	500	500	427	247	155	104	73	53	40	30	24	19	15	13	10	9
	Deflection (L/240)	500	500	320	185	116	78	54	40	30	23	18	14	11	9	8	6
3 Span	Positive Wind	500	410	267	187	139	106	84	68	56	47	40	35	30	27	23	21
	Negative Wind	500	429	281	197	146	112	89	72	59	50	43	37	32	28	25	22
	Live	500	410	267	187	139	106	84	68	56	47	40	35	30	27	23	21
	Deflection (L/180)	500	500	334	193	121	81	57	41	31	24	19	15	12	10	8	7
	Deflection (L/240)	500	490	250	145	91	61	43	31	23	18	14	11	9	7	6	5
4 Span	Positive Wind	500	385	250	175	130	99	79	64	53	44	38	32	28	25	22	19
	Negative Wind	500	403	263	185	136	105	83	67	56	47	40	34	30	26	23	21
	Live	500	385	250	175	130	99	79	64	53	44	38	32	28	25	22	19
	Deflection (L/180)	500	500	355	205	129	86	60	44	33	25	20	16	13	10	9	7
	Deflection (L/240)	500	500	266	154	97	65	45	33	25	19	15	12	9	8	6	5

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.

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