

# TECHNICAL BULLETIN

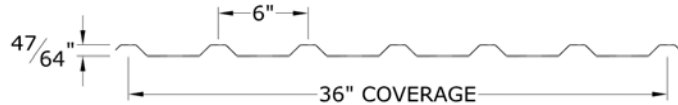
Issue Date : June 1, 2006

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No. 07-247-06

## U-Panel PB

(Bare & 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.
26	50.0	0.88	0.9087	300.17	435.67	0.0197	0.0377	1.1300	0.0133	0.0336	1.0067

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	334	188	120	83	61	47	37	30	24	20	17	15	13	11	10	9
	Negative Wind	298	167	107	74	54	41	33	26	22	18	15	13	11	10	9	8
	Live	334	188	120	83	61	47	37	30	24	20	17	15	13	11	10	9
	Deflection (L/180)	500	215	110	63	40	26	18	13	10	7	6	5	4	3	2	2
	Deflection (L/240)	382	161	82	47	30	20	14	10	7	5	4	3	3	2	2	1
2 Span	Positive Wind	285	163	105	73	54	41	32	26	22	18	15	13	11	10	9	8
	Negative Wind	316	182	118	82	60	46	36	29	24	20	17	15	13	11	10	9
	Live	285	163	105	73	54	41	32	26	22	18	15	13	11	10	9	8
	Deflection (L/180)	500	434	222	128	81	54	38	27	20	16	12	10	8	6	5	4
	Deflection (L/240)	500	325	166	96	60	40	28	20	15	12	9	7	6	5	4	3
3 Span	Positive Wind	349	202	131	91	67	51	41	33	27	23	19	17	14	13	11	10
	Negative Wind	386	224	146	102	75	58	46	37	30	26	22	19	16	14	12	11
	Live	349	202	131	91	67	51	41	33	27	23	19	17	14	13	11	10
	Deflection (L/180)	500	340	174	100	63	42	29	21	16	12	9	7	6	5	4	3
	Deflection (L/240)	500	255	130	75	47	31	22	16	12	9	7	5	4	3	3	2
4 Span	Positive Wind	328	189	122	85	63	48	38	31	25	21	18	15	13	12	10	9
	Negative Wind	363	210	136	95	70	54	43	34	28	24	20	17	15	13	12	10
	Live	328	189	122	85	63	48	38	31	25	21	18	15	13	12	10	9
	Deflection (L/180)	500	361	184	107	67	45	31	23	17	13	10	8	6	5	4	3
	Deflection (L/240)	500	270	138	80	50	33	23	17	13	10	7	6	5	4	3	2

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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