

# TECHNICAL BULLETIN

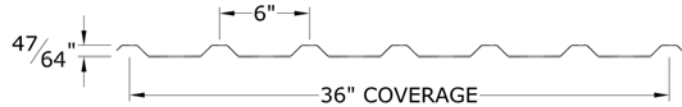
Issue Date : June 1, 2006

Revised: January 29, 2013

No. 07-248-06

## U-Panel PB

(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	80.0	0.88	1.0900	360.20	522.80	0.1900	0.0365	1.3130	0.0130	0.0322	1.1580

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	389	218	140	97	71	54	43	35	28	24	20	17	15	13	12	10
	Negative Wind	343	193	123	85	63	48	38	30	25	21	18	15	13	12	10	9
	Live	389	218	140	97	71	54	43	35	28	24	20	17	15	13	12	10
	Deflection (L/180)	500	500	500	500	387	259	182	132	99	76	60	48	39	32	27	22
	Deflection (L/240)	500	500	500	461	290	194	136	99	74	57	45	36	29	24	20	17
2 Span	Positive Wind	329	188	121	84	62	47	37	30	25	21	18	15	13	12	10	9
	Negative Wind	368	212	137	95	70	54	42	34	28	24	20	17	15	13	12	10
	Live	329	188	121	84	62	47	37	30	25	21	18	15	13	12	10	9
	Deflection (L/180)	500	500	500	500	498	333	234	170	128	98	77	62	50	41	34	29
	Deflection (L/240)	500	500	500	500	373	250	175	128	96	74	58	46	37	31	26	21
3 Span	Positive Wind	404	233	151	105	77	59	47	38	31	26	22	19	17	15	13	11
	Negative Wind	451	261	170	119	88	67	53	43	35	30	25	22	19	17	15	13
	Live	404	233	151	105	77	59	47	38	31	26	22	19	17	15	13	11
	Deflection (L/180)	500	500	500	500	390	261	183	133	100	77	60	48	39	32	27	22
	Deflection (L/240)	500	500	500	465	292	196	137	100	75	58	45	36	29	24	20	17
4 Span	Positive Wind	379	218	141	98	72	55	44	35	29	24	21	18	15	14	12	11
	Negative Wind	424	245	159	111	82	63	50	40	33	28	24	20	18	15	14	12
	Live	379	218	141	98	72	55	44	35	29	24	21	18	15	14	12	11
	Deflection (L/180)	500	500	500	500	414	277	195	142	106	82	64	51	42	34	28	24
	Deflection (L/240)	500	500	500	493	310	208	146	106	80	61	48	38	31	26	21	18

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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