

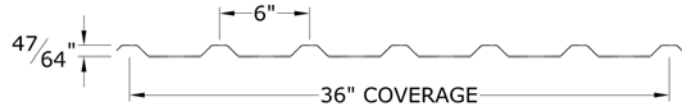
TECHNICAL BULLETIN

Issue Date : January 29, 2013

No. 07-341-13

U-Panel PB

(Bare 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.
29	80.0	0.68	0.6353	219.60	312.60	0.0130	0.0240	0.8613	0.0093	0.0219	0.7870

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_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	255	143	91	63	46	35	28	22	18	15	13	11	10	8	7	7
	Negative Wind	233	131	83	58	42	32	25	20	17	14	12	10	9	8	7	6
	Live	255	143	91	63	46	35	28	22	18	15	13	11	10	8	7	7
	Deflection (L/180)	336	142	72	42	26	17	12	9	6	5	4	3	2	2	1	1
	Deflection (L/240)	252	106	54	31	19	13	9	6	5	3	3	2	2	1	1	1
2 Span	Positive Wind	220	127	82	57	42	32	25	20	17	14	12	10	9	8	7	6
	Negative Wind	238	138	89	62	46	35	28	22	18	15	13	11	10	8	7	7
	Live	220	127	82	57	42	32	25	20	17	14	12	10	9	8	7	6
	Deflection (L/180)	500	293	150	86	54	36	25	18	14	10	8	6	5	4	3	3
	Deflection (L/240)	500	220	112	65	41	27	19	14	10	8	6	5	4	3	2	2
3 Span	Positive Wind	269	156	101	71	52	40	32	26	21	18	15	13	11	10	9	8
	Negative Wind	290	169	110	77	57	44	35	28	23	19	16	14	12	11	9	8
	Live	269	156	101	71	52	40	32	26	21	18	15	13	11	10	9	8
	Deflection (L/180)	500	229	117	68	42	28	20	14	11	8	6	5	4	3	2	2
	Deflection (L/240)	408	172	88	51	32	21	15	11	8	6	5	4	3	2	2	1
4 Span	Positive Wind	253	146	95	66	49	37	29	24	20	16	14	12	10	9	8	7
	Negative Wind	273	159	103	72	53	41	32	26	21	18	15	13	11	10	9	8
	Live	253	146	95	66	49	37	29	24	20	16	14	12	10	9	8	7
	Deflection (L/180)	500	244	124	72	45	30	21	15	11	9	7	5	4	3	3	2
	Deflection (L/240)	433	183	93	54	34	22	16	11	8	6	5	4	3	2	2	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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