

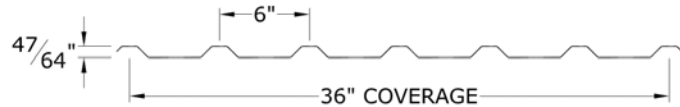
TECHNICAL BULLETIN

Issue Date : January 29, 2013

No. 07-340-13

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.
26	80.0	0.86	1.0350	341.90	495.30	0.0183	0.0351	1.2630	0.0127	0.0309	1.1110

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	374	210	134	93	68	52	41	33	27	23	19	17	14	13	11	10
	Negative Wind	329	185	118	82	60	46	36	29	24	20	17	15	13	11	10	9
	Live	374	210	134	93	68	52	41	33	27	23	19	17	14	13	11	10
	Deflection (L/180)	473	199	102	59	37	24	17	12	9	7	5	4	3	3	2	2
	Deflection (L/240)	355	149	76	44	27	18	13	9	7	5	4	3	2	2	1	1
2 Span	Positive Wind	315	180	116	81	59	46	36	29	24	20	17	15	13	11	10	9
	Negative Wind	354	204	132	92	68	52	41	33	27	23	19	17	14	13	11	10
	Live	315	180	116	81	59	46	36	29	24	20	17	15	13	11	10	9
	Deflection (L/180)	500	407	208	120	76	50	35	26	19	15	11	9	7	6	5	4
	Deflection (L/240)	500	305	156	90	57	38	26	19	14	11	8	7	5	4	3	3
3 Span	Positive Wind	387	223	144	101	74	57	45	36	30	25	21	18	16	14	12	11
	Negative Wind	433	251	163	114	84	65	51	41	34	29	24	21	18	16	14	12
	Live	387	223	144	101	74	57	45	36	30	25	21	18	16	14	12	11
	Deflection (L/180)	500	319	163	94	59	39	28	20	15	11	9	7	6	4	4	3
	Deflection (L/240)	500	239	122	71	44	29	21	15	11	8	6	5	4	3	3	2
4 Span	Positive Wind	363	209	135	94	69	53	42	34	28	23	20	17	15	13	11	10
	Negative Wind	407	235	153	107	79	60	48	39	32	27	23	19	17	15	13	12
	Live	363	209	135	94	69	53	42	34	28	23	20	17	15	13	11	10
	Deflection (L/180)	500	339	173	100	63	42	29	21	16	12	9	7	6	5	4	3
	Deflection (L/240)	500	254	130	75	47	31	22	16	12	9	7	5	4	3	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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