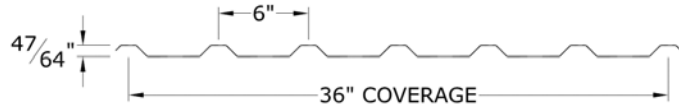


TECHNICAL BULLETIN

Issue Date : January 29, 2013

No. 07-339-13

U-Panel PB (Bare & Painted 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.
24	80.0	1.11	1.3850	556.30	820.10	0.0260	0.0505	1.8130	0.0180	0.0146	1.6430

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	500	302	193	134	98	75	59	48	39	33	28	24	21	18	16	14
	Negative Wind	486	273	175	121	89	68	54	43	36	30	25	22	19	17	15	13
	Live	500	302	193	134	98	75	59	48	39	33	28	24	21	18	16	14
	Deflection (L/180)	500	284	145	84	53	35	24	18	13	10	8	6	5	4	3	3
	Deflection (L/240)	500	213	109	63	39	26	18	13	10	7	6	4	4	3	2	2
2 Span	Positive Wind	462	265	171	120	88	67	53	43	36	30	25	22	19	17	15	13
	Negative Wind	500	291	188	132	97	74	59	48	39	33	28	24	21	18	16	14
	Live	462	265	171	120	88	67	53	43	36	30	25	22	19	17	15	13
	Deflection (L/180)	500	500	296	171	108	72	50	37	27	21	16	13	10	9	7	6
	Deflection (L/240)	500	434	222	128	81	54	38	27	20	16	12	10	8	6	5	4
3 Span	Positive Wind	500	328	213	149	110	84	67	54	45	37	32	27	24	21	18	16
	Negative Wind	500	358	233	164	121	93	73	59	49	41	35	30	26	23	20	18
	Live	500	328	213	149	110	84	67	54	45	37	32	27	24	21	18	16
	Deflection (L/180)	500	453	232	134	84	56	39	29	21	16	13	10	8	7	5	4
	Deflection (L/240)	500	340	174	100	63	42	29	21	16	12	9	7	6	5	4	3
4 Span	Positive Wind	500	307	199	139	103	79	62	50	42	35	30	25	22	19	17	15
	Negative Wind	500	336	219	153	113	87	68	55	46	38	33	28	24	21	19	17
	Live	500	307	199	139	103	79	62	50	42	35	30	25	22	19	17	15
	Deflection (L/180)	500	481	246	142	89	60	42	30	23	17	14	11	9	7	6	5
	Deflection (L/240)	500	361	184	107	67	45	31	23	17	13	10	8	6	5	4	3

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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