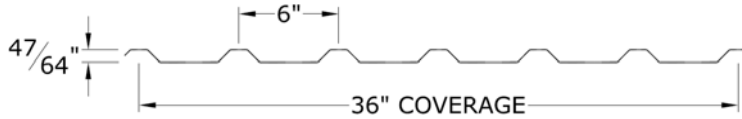




# U-Panel PB

(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.)
24	50.0	1.13	1.1933	463.47	683.37	0.0267	0.0522	1.5600	0.0187	0.0459	1.3733

1. Section properties are calculated in accordance with the 2016 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 in Feet															
Span Type	Load Type	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	462	260	166	115	84	65	51	41	34	28	24	21	18	16	14	12
	Negative Wind	406	228	146	101	74	57	45	36	30	25	21	18	16	14	12	11
	Live	462	260	166	115	84	65	51	41	34	28	24	21	18	16	14	12
	Deflection (L/180)	500	291	149	86	54	36	25	18	14	10	8	6	5	4	3	3
	Deflection (L/240)	500	218	111	64	40	27	19	13	10	8	6	5	4	3	2	2
2 Span	Positive Wind	387	222	143	100	74	56	44	36	30	25	21	18	16	14	12	11
	Negative Wind	434	250	162	113	83	64	50	41	34	28	24	21	18	16	14	12
	Live	387	222	143	100	74	56	44	36	30	25	21	18	16	14	12	11
	Deflection (L/180)	500	500	305	176	111	74	52	38	28	22	17	13	11	9	7	6
	Deflection (L/240)	500	447	229	132	83	55	39	28	21	16	13	10	8	6	5	4
3 Span	Positive Wind	474	274	178	124	92	70	56	45	37	31	26	23	20	17	15	14
	Negative Wind	500	308	201	141	104	80	63	51	42	35	30	26	23	20	17	16
	Live	474	274	178	124	92	70	56	45	37	31	26	23	20	17	15	14
	Deflection (L/180)	500	467	239	138	87	58	41	29	22	17	13	10	8	7	6	5
	Deflection (L/240)	500	350	179	103	65	43	30	22	16	12	10	8	6	5	4	3
4 Span	Positive Wind	446	257	167	116	86	66	52	42	35	29	25	21	18	16	14	13
	Negative Wind	498	289	188	132	97	74	59	48	39	33	28	24	21	18	16	14
	Live	446	257	167	116	86	66	52	42	35	29	25	21	18	16	14	13
	Deflection (L/180)	500	496	254	146	92	62	43	31	23	18	14	11	9	7	6	5
	Deflection (L/240)	500	372	190	110	69	46	32	23	17	13	10	8	7	5	4	4

**Notes:**

1. Allowable uniform loads are based upon equal span lengths.
2. Live is the allowable live or snow load.
3. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
4. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
5. The weight of the panel has **NOT** been deducted from the allowable loads.
6. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. H2-1 of the AISI Specification.
7. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
8. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
9. Load Tables are limited to a maximum allowable load of 500 psf.