



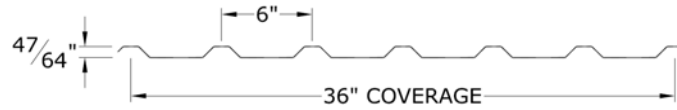
## TECHNICAL BULLETIN

Issue Date : January 29, 2013

No. 07-336-13

### U-Panel

(Bare 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	0.84	0.9537	314.67	455.97	0.0183	0.0805	1.2420	0.0123	0.0294	1.0580

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	368	207	132	92	67	51	40	33	27	23	19	16	14	12	11	10
	Negative Wind	313	176	112	78	57	44	34	28	23	19	16	14	12	11	9	8
	Live	368	207	132	92	67	51	40	33	27	23	19	16	14	12	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	299	171	110	77	57	43	34	28	23	19	16	14	12	11	9	8
	Negative Wind	346	199	129	90	66	51	40	32	27	22	19	16	14	12	11	10
	Live	299	171	110	77	57	43	34	28	23	19	16	14	12	11	9	8
	Deflection (L/180)	500	402	206	119	75	50	35	25	19	14	11	9	7	6	5	4
	Deflection (L/240)	500	302	154	89	56	37	26	19	14	11	8	7	5	4	3	3
3 Span	Positive Wind	367	212	137	96	71	54	43	35	28	24	20	17	15	13	12	10
	Negative Wind	421	246	160	112	83	63	50	41	33	28	24	21	18	16	14	12
	Live	367	212	137	96	71	54	43	35	28	24	20	17	15	13	12	10
	Deflection (L/180)	500	315	161	93	58	39	27	20	15	11	9	7	5	4	4	3
	Deflection (L/240)	500	236	121	70	44	29	20	15	11	8	6	5	4	3	3	2
4 Span	Positive Wind	345	199	128	90	66	50	40	32	27	22	19	16	14	12	11	10
	Negative Wind	397	230	150	105	77	59	47	38	31	26	22	19	17	15	13	11
	Live	345	199	128	90	66	50	40	32	27	22	19	16	14	12	11	10
	Deflection (L/180)	500	334	171	99	62	41	29	21	16	12	9	7	6	5	4	3
	Deflection (L/240)	500	251	128	74	46	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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