



## TECHNICAL BULLETIN

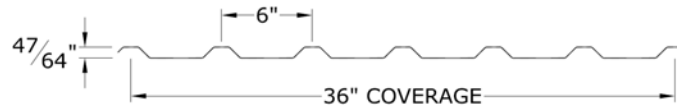
Issue Date : June 1, 2006

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No. 07-257-06

### U-Panel

(Painted Galvalume)



GAUGE	FY (KSI)	WEIGHT (PSF)	SECTION PROPERTIES			TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
			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	0.86	1.0100	331.50	481.30	0.0190	0.0359	1.2910	0.0127	0.0307	1.1030

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	382	215	137	95	70	53	42	34	28	23	20	17	15	13	11	10
	Negative Wind	326	183	117	81	60	45	36	29	24	20	17	15	13	11	10	9
	Live	382	215	137	95	70	53	42	34	28	23	20	17	15	13	11	10
	Deflection (L/180)	492	207	106	61	38	25	18	13	9	7	6	4	3	3	2	2
	Deflection (L/240)	369	155	79	46	29	19	13	9	7	5	4	3	2	2	2	1
2 Span	Positive Wind	312	179	115	80	59	45	36	29	24	20	17	14	13	11	10	9
	Negative Wind	360	207	134	94	69	53	42	34	28	23	20	17	15	13	11	10
	Live	312	179	115	80	59	45	36	29	24	20	17	14	13	11	10	9
	Deflection (L/180)	500	417	213	123	77	52	36	26	20	15	12	9	7	6	5	4
	Deflection (L/240)	500	312	160	92	58	39	27	20	15	11	9	7	5	4	4	3
3 Span	Positive Wind	383	221	143	100	74	56	45	36	30	25	21	18	16	14	12	11
	Negative Wind	439	256	166	116	86	66	52	42	35	29	25	21	19	16	14	13
	Live	383	221	143	100	74	56	45	36	30	25	21	18	16	14	12	11
	Deflection (L/180)	500	326	167	96	60	40	28	20	15	12	9	7	6	5	4	3
	Deflection (L/240)	500	245	125	72	45	30	21	15	11	9	7	5	4	3	3	2
4 Span	Positive Wind	360	207	134	93	69	53	42	34	28	23	20	17	15	13	11	10
	Negative Wind	414	240	156	109	80	62	49	39	32	27	23	20	17	15	13	12
	Live	360	207	134	93	69	53	42	34	28	23	20	17	15	13	11	10
	Deflection (L/180)	500	346	177	102	64	43	30	22	16	12	10	8	6	5	4	3
	Deflection (L/240)	500	260	133	77	48	32	22	16	12	9	7	6	4	4	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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