

TECHNICAL BULLETIN

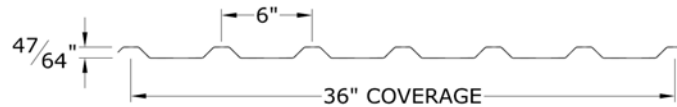
Issue Date : June 1, 2006

Revised: January 29, 2013

No. 07-258-06

U-Panel

(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.
29	80.0	0.70	0.6483	221.70	316.97	0.0140	0.0257	0.9223	0.0097	0.0223	0.8027

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	273	153	98	68	50	38	30	24	20	17	14	12	10	9	8	7
	Negative Wind	237	133	85	59	43	33	26	21	17	14	12	10	9	8	7	6
	Live	273	153	98	68	50	38	30	24	20	17	14	12	10	9	8	7
	Deflection (L/180)	362	152	78	45	28	19	13	9	7	5	4	3	2	2	1	1
	Deflection (L/240)	271	114	58	33	21	14	10	7	5	4	3	2	2	1	1	1
2 Span	Positive Wind	224	129	83	58	43	33	26	21	17	14	12	10	9	8	7	6
	Negative Wind	254	147	95	67	49	38	30	24	20	16	14	12	10	9	8	7
	Live	224	129	83	58	43	33	26	21	17	14	12	10	9	8	7	6
	Deflection (L/180)	500	311	159	92	58	38	27	19	14	11	9	7	5	4	4	3
	Deflection (L/240)	500	233	119	69	43	29	20	14	11	8	6	5	4	3	3	2
3 Span	Positive Wind	274	159	103	72	53	41	32	26	21	18	15	13	11	10	9	8
	Negative Wind	308	181	118	83	61	47	37	30	25	21	18	15	13	11	10	9
	Live	274	159	103	72	53	41	32	26	21	18	15	13	11	10	9	8
	Deflection (L/180)	500	244	125	72	45	30	21	15	11	9	7	5	4	3	3	2
	Deflection (L/240)	434	183	93	54	34	22	16	11	8	6	5	4	3	2	2	2
4 Span	Positive Wind	258	149	97	68	50	38	30	24	20	17	14	12	11	9	8	7
	Negative Wind	290	170	110	77	57	44	35	28	23	19	16	14	12	11	9	8
	Live	258	149	97	68	50	38	30	24	20	17	14	12	11	9	8	7
	Deflection (L/180)	500	259	132	76	48	32	22	16	12	9	7	6	4	4	3	2
	Deflection (L/240)	461	194	99	57	36	24	17	12	9	7	5	4	3	3	2	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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