

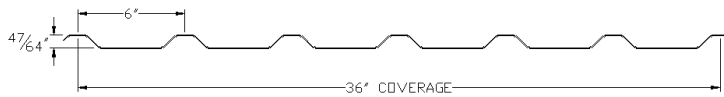


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-258-06

U-Panel



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	176.72	316.94	0.0140	0.0259	0.9297	0.0097	0.0225	0.8087

- Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V_a is the allowable shear.
- P_a is the allowable load for web crippling on end & interior supports.
- I_x is for deflection determination.
- S_e is for bending.
- M_a is the allowable bending moment.
- 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	275	154	99	68	50	38	30	24	20	17	14	12	11	9	8	7	
	Negative Wind	239	134	86	59	44	33	26	21	17	14	12	11	9	8	7	6	
	Live	275	154	99	68	50	38	30	24	20	17	14	12	11	9	8	7	
	Deflection (L/180)	362	152	78	45	28	19	13	9	7	5	4	3	2	2	1	1	1
	Deflection (L/240)	271	114	58	33	21	14	10	7	5	4	3	2	2	1	1	1	1
2 Span	Positive Wind	226	130	84	59	43	33	26	21	17	14	12	10	9	8	7	6	
	Negative Wind	255	148	96	67	49	38	30	24	20	17	14	12	10	9	8	7	
	Live	226	130	84	59	43	33	26	21	17	14	12	10	9	8	7	6	
	Deflection (L/180)	739	311	159	92	58	38	27	19	14	11	9	7	5	4	4	3	
	Deflection (L/240)	554	233	119	69	43	29	20	14	11	8	6	5	4	3	3	2	2
3 Span	Positive Wind	276	160	104	73	54	41	32	26	22	18	15	13	11	10	9	8	
	Negative Wind	310	182	119	83	61	47	37	30	25	21	18	15	13	12	10	9	
	Live	276	160	104	73	54	41	32	26	22	18	15	13	11	10	9	8	
	Deflection (L/180)	579	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	2
4 Span	Positive Wind	260	150	97	68	50	38	30	24	20	17	14	12	11	9	8	7	
	Negative Wind	292	171	111	78	57	44	35	28	23	19	17	14	12	11	9	8	
	Live	260	150	97	68	50	38	30	24	20	17	14	12	11	9	8	7	
	Deflection (L/180)	614	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	2

Notes:

- Allowable uniform loads are based upon equal span lengths.
- Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
- Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
- Live is the allowable live or snow load.
- Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
- Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
- The weight of the panel has **NOT** been deducted from the allowable loads.
- Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
- Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
- Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.

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