

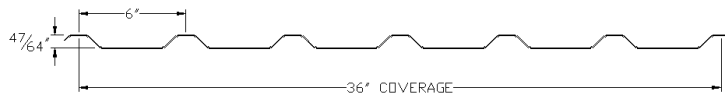


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-256-06

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.
26	50.0	0.87	0.8708	236.29	405.37	0.0197	0.0376	1.1243	0.0133	0.0324	0.9687

- 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	333	187	119	83	61	46	37	29	24	20	17	15	13	11	10	9
	Negative Wind	287	161	103	71	52	40	31	25	21	17	15	13	11	10	8	7
	Live	333	187	119	83	61	46	37	29	24	20	17	15	13	11	10	9
	Deflection (L/180)	510	215	110	63	40	26	18	13	10	7	6	5	4	3	2	2
	Deflection (L/240)	382	161	82	47	30	20	14	10	7	5	4	3	3	2	2	1
2 Span	Positive Wind	274	157	101	70	52	40	31	25	21	17	15	13	11	10	8	7
	Negative Wind	313	180	117	81	60	46	36	29	24	20	17	15	13	11	10	9
	Live	274	157	101	70	52	40	31	25	21	17	15	13	11	10	8	7
	Deflection (L/180)	1029	434	222	128	81	54	38	27	20	16	12	10	8	6	5	4
	Deflection (L/240)	772	325	166	96	60	40	28	20	15	12	9	7	6	5	4	3
3 Span	Positive Wind	336	194	126	88	65	49	39	32	26	22	19	16	14	12	11	9
	Negative Wind	382	222	145	101	75	57	45	37	30	25	22	19	16	14	12	11
	Live	336	194	126	88	65	49	39	32	26	22	19	16	14	12	11	9
	Deflection (L/180)	806	340	174	100	63	42	29	21	16	12	9	7	6	5	4	3
	Deflection (L/240)	604	255	130	75	47	31	22	16	12	9	7	5	4	3	3	2
4 Span	Positive Wind	316	182	117	82	60	46	36	29	24	20	17	15	13	11	10	9
	Negative Wind	360	209	135	95	70	54	42	34	28	24	20	17	15	13	12	10
	Live	316	182	117	82	60	46	36	29	24	20	17	15	13	11	10	9
	Deflection (L/180)	856	361	184	107	67	45	31	23	17	13	10	8	6	5	4	3
	Deflection (L/240)	642	270	138	80	50	33	23	17	13	10	7	6	5	4	3	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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