

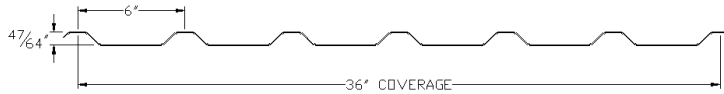


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-257-06

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	80.0	0.87	1.0216	283.55	486.44	0.0190	0.0363	1.3043	0.0130	0.0310	1.1130

- 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	386	217	139	96	70	54	42	34	28	24	20	17	15	13	12	10
	Negative Wind	329	185	118	82	60	46	36	29	24	20	17	15	13	11	10	9
	Live	386	217	139	96	70	54	42	34	28	24	20	17	15	13	12	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	315	180	116	81	60	46	36	29	24	20	17	15	13	11	10	9
	Negative Wind	364	210	136	95	70	53	42	34	28	24	20	17	15	13	12	10
	Live	315	180	116	81	60	46	36	29	24	20	17	15	13	11	10	9
	Deflection (L/180)	998	421	215	124	78	52	36	26	20	15	12	9	7	6	5	4
	Deflection (L/240)	748	315	161	93	58	39	27	20	15	11	9	7	5	4	4	3
3 Span	Positive Wind	387	223	144	101	74	57	45	36	30	25	21	18	16	14	12	11
	Negative Wind	444	258	168	118	87	67	53	43	35	30	25	22	19	16	15	13
	Live	387	223	144	101	74	57	45	36	30	25	21	18	16	14	12	11
	Deflection (L/180)	781	329	168	97	61	41	28	21	15	12	9	7	6	5	4	3
	Deflection (L/240)	586	247	126	73	46	30	21	15	11	9	7	5	4	3	3	2
4 Span	Positive Wind	363	209	135	94	69	53	42	34	28	23	20	17	15	13	11	10
	Negative Wind	418	242	157	110	81	62	49	40	33	28	23	20	17	15	14	12
	Live	363	209	135	94	69	53	42	34	28	23	20	17	15	13	11	10
	Deflection (L/180)	830	350	179	103	65	43	30	22	16	12	10	8	6	5	4	3
	Deflection (L/240)	622	262	134	77	49	32	23	16	12	9	7	6	4	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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