

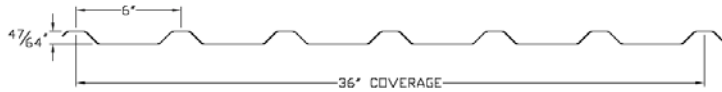


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-248-06

PBU-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	0.88	1.0965	308.35	528.40	0.0193	0.0367	1.3190	0.0133	0.0325	1.1693

- 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	390	219	140	97	71	54	43	35	29	24	20	17	15	13	12	10
	Negative Wind	346	194	124	86	63	48	38	31	25	21	18	15	13	12	10	9
	Live	390	219	140	97	71	54	43	35	29	24	20	17	15	13	12	10
	Deflection (L/180)	499	210	107	62	39	26	18	13	10	7	6	4	3	3	2	2
	Deflection (L/240)	374	158	80	46	29	19	13	10	7	5	4	3	2	2	2	1
2 Span	Positive Wind	332	190	122	85	63	48	38	31	25	21	18	15	13	12	10	9
	Negative Wind	370	213	137	96	71	54	43	34	28	24	20	17	15	13	12	10
	Live	332	190	122	85	63	48	38	31	25	21	18	15	13	12	10	9
	Deflection (L/180)	1016	428	219	127	80	53	37	27	20	15	12	10	8	6	5	4
	Deflection (L/240)	762	321	164	95	60	40	28	20	15	11	9	7	6	5	4	3
3 Span	Positive Wind	408	235	152	106	78	60	47	38	32	26	22	19	17	15	13	12
	Negative Wind	453	263	170	119	88	67	53	43	36	30	25	22	19	17	15	13
	Live	408	235	152	106	78	60	47	38	32	26	22	19	17	15	13	12
	Deflection (L/180)	796	336	172	99	62	42	29	21	16	12	9	7	6	5	4	3
	Deflection (L/240)	597	252	129	74	47	31	22	16	12	9	7	5	4	3	3	2
4 Span	Positive Wind	383	220	142	99	73	56	44	36	29	25	21	18	16	14	12	11
	Negative Wind	426	246	160	112	82	63	50	40	33	28	24	20	18	15	14	12
	Live	383	220	142	99	73	56	44	36	29	25	21	18	16	14	12	11
	Deflection (L/180)	845	356	182	105	66	44	31	22	17	13	10	8	6	5	4	3
	Deflection (L/240)	634	267	136	79	49	33	23	17	12	9	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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