

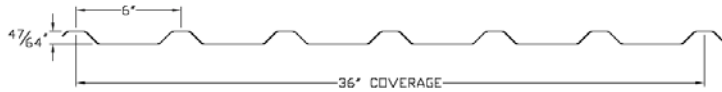


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-247-06

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	50.0	0.88	0.9138	256.95	440.33	0.0197	0.0380	1.1373	0.0137	0.0339	1.0163

- 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	336	189	121	84	61	47	37	30	25	21	17	15	13	11	10	9
	Negative Wind	301	169	108	75	55	42	33	27	22	18	16	13	12	10	9	8
	Live	336	189	121	84	61	47	37	30	25	21	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	287	165	106	74	54	42	33	26	22	18	15	13	12	10	9	8
	Negative Wind	318	183	118	83	61	46	37	30	24	20	17	15	13	11	10	9
	Live	287	165	106	74	54	42	33	26	22	18	15	13	12	10	9	8
	Deflection (L/180)	1041	439	225	130	82	54	38	28	21	16	12	10	8	6	5	4
	Deflection (L/240)	781	329	168	97	61	41	28	21	15	12	9	7	6	5	4	3
3 Span	Positive Wind	352	203	132	92	68	52	41	33	27	23	19	17	15	13	11	10
	Negative Wind	389	226	147	103	76	58	46	37	31	26	22	19	16	14	13	11
	Live	352	203	132	92	68	52	41	33	27	23	19	17	15	13	11	10
	Deflection (L/180)	816	344	176	102	64	43	30	22	16	12	10	8	6	5	4	3
	Deflection (L/240)	612	258	132	76	48	32	22	16	12	9	7	6	4	4	3	2
4 Span	Positive Wind	331	191	123	86	63	48	38	31	26	21	18	16	14	12	10	9
	Negative Wind	366	212	137	96	71	54	43	35	29	24	20	17	15	13	12	10
	Live	331	191	123	86	63	48	38	31	26	21	18	16	14	12	10	9
	Deflection (L/180)	866	365	187	108	68	45	32	23	17	13	10	8	6	5	4	4
	Deflection (L/240)	649	274	140	81	51	34	24	17	13	10	7	6	5	4	3	3

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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