

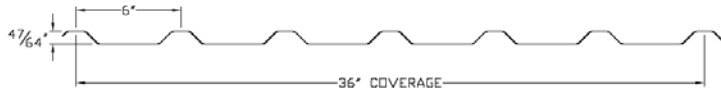


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-249-06

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.
29	80.0	0.71	0.7036	192.22	344.28	0.0143	0.0263	0.9437	0.0100	0.0237	0.8523

- 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	279	157	100	69	51	39	31	25	20	17	14	12	11	9	8	7	
	Negative Wind	252	142	90	63	46	35	28	22	18	15	13	11	10	8	7	7	
	Live	279	157	100	69	51	39	31	25	20	17	14	12	11	9	8	7	
	Deflection (L/180)	370	156	79	46	29	19	13	9	7	5	4	3	2	2	2	1	1
	Deflection (L/240)	277	117	59	34	21	14	10	7	5	4	3	2	2	1	1	1	1
2 Span	Positive Wind	239	137	89	62	45	35	27	22	18	15	13	11	10	8	7	7	
	Negative Wind	262	151	98	68	50	38	30	25	20	17	14	12	11	9	8	7	
	Live	239	137	89	62	45	35	27	22	18	15	13	11	10	8	7	7	
	Deflection (L/180)	757	319	163	94	59	39	28	20	15	11	9	7	6	4	4	3	3
	Deflection (L/240)	568	239	122	71	44	29	21	15	11	8	6	5	4	3	3	2	2
3 Span	Positive Wind	292	169	110	77	57	43	34	28	23	19	16	14	12	11	9	8	
	Negative Wind	319	186	121	85	63	48	38	31	25	21	18	15	13	12	10	9	
	Live	292	169	110	77	57	43	34	28	23	19	16	14	12	11	9	8	
	Deflection (L/180)	593	250	128	74	46	31	21	16	12	9	7	5	4	3	3	2	2
	Deflection (L/240)	445	187	96	55	35	23	16	12	9	6	5	4	3	2	2	2	2
4 Span	Positive Wind	275	159	103	72	53	41	32	26	21	18	15	13	11	10	9	8	
	Negative Wind	300	174	113	79	58	45	35	29	24	20	17	14	13	11	10	9	
	Live	275	159	103	72	53	41	32	26	21	18	15	13	11	10	9	8	
	Deflection (L/180)	630	265	136	78	49	33	23	17	12	9	7	6	5	4	3	2	2
	Deflection (L/240)	472	199	102	59	37	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.

CORPORATE OFFICE
SHREVEPORT, LOUISIANA