

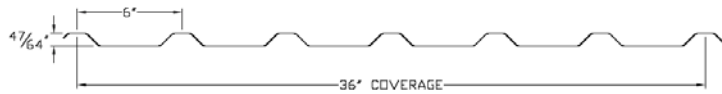


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-246-06

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.
24	50.0	1.11	1.1590	414.23	689.08	0.0267	0.0521	1.5600	0.0187	0.0483	1.4467

- 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	462	260	166	115	84	65	51	41	34	28	24	21	18	16	14	12
	Negative Wind	428	241	154	107	78	60	47	38	31	26	22	19	17	15	13	11
	Live	462	260	166	115	84	65	51	41	34	28	24	21	18	16	14	12
	Deflection (L/180)	691	291	149	86	54	36	25	18	14	10	8	6	5	4	3	3
	Deflection (L/240)	518	218	112	64	40	27	19	14	10	8	6	5	4	3	2	2
2 Span	Positive Wind	404	233	151	105	77	59	47	38	31	26	22	19	17	15	13	11
	Negative Wind	432	250	162	113	83	64	50	41	34	28	24	21	18	16	14	12
	Live	404	233	151	105	77	59	47	38	31	26	22	19	17	15	13	11
	Deflection (L/180)	1416	597	305	177	111	74	52	38	28	22	17	13	11	9	7	6
	Deflection (L/240)	1062	448	229	132	83	56	39	28	21	16	13	10	8	7	5	4
3 Span	Positive Wind	494	287	187	131	96	74	58	47	39	33	28	24	21	18	16	14
	Negative Wind	527	308	200	140	104	80	63	51	42	35	30	26	23	20	17	16
	Live	494	287	187	131	96	74	58	47	39	33	28	24	21	18	16	14
	Deflection (L/180)	1109	468	239	138	87	58	41	29	22	17	13	10	8	7	6	5
	Deflection (L/240)	832	351	179	104	65	43	30	22	16	13	10	8	6	5	4	3
4 Span	Positive Wind	465	269	175	122	90	69	55	44	36	31	26	22	19	17	15	13
	Negative Wind	496	289	188	131	97	74	59	48	39	33	28	24	21	18	16	14
	Live	465	269	175	122	90	69	55	44	36	31	26	22	19	17	15	13
	Deflection (L/180)	1177	496	254	147	92	62	43	31	23	18	14	11	9	7	6	5
	Deflection (L/240)	883	372	190	110	69	46	32	23	17	13	10	8	7	5	4	4

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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