

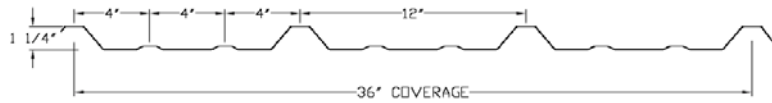


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-245-06

PBR-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	0.90	0.5882	148.11	306.79	0.0397	0.0401	1.4423	0.0323	0.0563	1.6613

- 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	427	240	153	106	78	60	47	38	31	26	22	19	17	15	13	11
	Negative Wind	492	276	177	123	90	69	54	44	36	30	26	22	19	17	15	13
	Live	427	240	153	106	78	60	47	38	31	26	22	19	17	15	13	11
	Deflection (L/180)	1028	433	222	128	80	54	38	27	20	16	12	10	8	6	5	4
	Deflection (L/240)	771	325	166	96	60	40	28	20	15	12	9	7	6	5	4	3
2 Span	Positive Wind	387	238	160	114	85	66	52	43	35	30	25	22	19	17	15	13
	Negative Wind	353	214	142	101	75	58	46	37	31	26	22	19	16	14	13	11
	Live	387	238	160	114	85	66	52	43	35	30	25	22	19	17	15	13
	Deflection (L/180)	2245	947	485	280	176	118	83	60	45	35	27	22	17	14	12	10
	Deflection (L/240)	1684	710	363	210	132	88	62	45	34	26	20	16	13	11	9	7
3 Span	Positive Wind	447	282	192	139	104	81	65	53	44	37	32	27	24	21	18	16
	Negative Wind	413	256	172	123	92	71	57	46	38	32	27	24	21	18	16	14
	Live	447	282	192	139	104	81	65	53	44	37	32	27	24	21	18	16
	Deflection (L/180)	1759	742	380	219	138	92	65	47	35	27	21	17	14	11	9	8
	Deflection (L/240)	1319	556	285	164	103	69	48	35	26	20	16	12	10	8	7	6
4 Span	Positive Wind	429	268	182	131	98	76	61	49	41	35	29	25	22	19	17	15
	Negative Wind	394	242	162	116	86	67	53	43	36	30	26	22	19	17	15	13
	Live	429	268	182	131	98	76	61	49	41	35	29	25	22	19	17	15
	Deflection (L/180)	1867	787	403	233	147	98	69	50	37	29	22	18	14	12	10	8
	Deflection (L/240)	1400	590	302	175	110	73	51	37	28	21	17	13	11	9	7	6

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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