

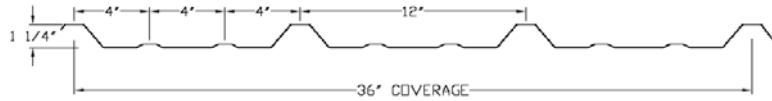


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-244-06

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	50.0	0.90	0.5882	123.42	255.66	0.0400	0.0402	1.2773	0.0333	0.0600	1.3997

- 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	378	212	136	94	69	53	42	34	28	23	20	17	15	13	11	10
	Negative Wind	414	233	149	103	76	58	46	37	30	25	22	19	16	14	12	11
	Live	378	212	136	94	69	53	42	34	28	23	20	17	15	13	11	10
	Deflection (L/180)	1035	437	223	129	81	54	38	27	21	16	12	10	8	6	5	4
	Deflection (L/240)	776	327	167	97	61	40	28	20	15	12	9	7	6	5	4	3
2 Span	Positive Wind	345	209	138	98	73	56	45	36	30	25	21	18	16	14	12	11
	Negative Wind	324	193	128	90	67	51	41	33	27	23	19	17	15	13	11	10
	Live	345	209	138	98	73	56	45	36	30	25	21	18	16	14	12	11
	Deflection (L/180)	2286	964	493	285	179	120	84	61	46	35	28	22	18	15	12	10
	Deflection (L/240)	1714	723	370	214	134	90	63	46	34	26	21	16	13	11	9	7
3 Span	Positive Wind	406	250	168	120	90	69	55	45	37	31	27	23	20	18	15	14
	Negative Wind	383	233	156	111	82	64	51	41	34	29	24	21	18	16	14	13
	Live	406	250	168	120	90	69	55	45	37	31	27	23	20	18	15	14
	Deflection (L/180)	1791	755	386	223	140	94	66	48	36	27	22	17	14	11	9	8
	Deflection (L/240)	1343	566	290	167	105	70	49	36	27	20	16	13	10	8	7	6
4 Span	Positive Wind	387	237	158	113	84	65	52	42	35	29	25	21	19	16	14	13
	Negative Wind	364	221	147	104	77	60	47	38	32	27	23	20	17	15	13	12
	Live	387	237	158	113	84	65	52	42	35	29	25	21	19	16	14	13
	Deflection (L/180)	1901	802	410	237	149	100	70	51	38	29	23	18	15	12	10	8
	Deflection (L/240)	1426	601	308	178	112	75	52	38	28	22	17	14	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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