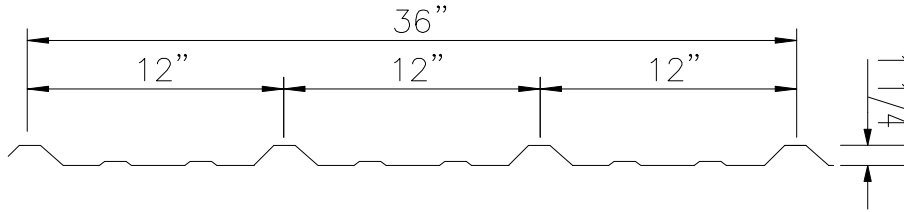


## PBR Panel Properties



Section Properties								
			Top Flat In Compression			Bottom Flat In Compression		
Panel gauge	Fy (ksi)	Weight (psf)	Ix(in <sup>4</sup> )	Sx (in <sup>3</sup> /ft.)	Ma (kip-in)	Ix(in <sup>4</sup> )	Sx (in <sup>3</sup> /ft.)	Ma (kip-in)
29	60*	0.65	0.0243	0.0234	0.840	0.0217	0.0340	1.221
26	60*	0.85	0.0390	0.0389	1.397	0.0303	0.0458	1.646
24	50	1.07	0.0567	0.0578	1.731	0.0420	0.0596	1.786
22	50	1.35	0.0800	0.0840	2.517	0.0567	0.0773	2.317

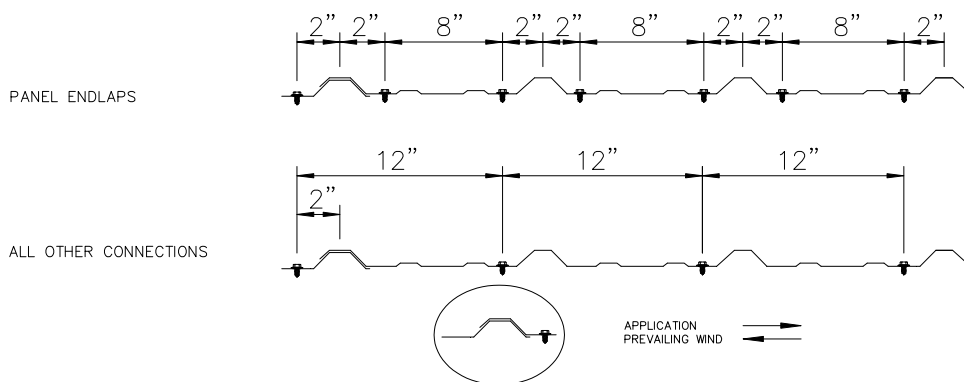
\*Fy is 80 ksi reduced to 60 ksi in accordance with the 2001 edition of the Cold-Formed Steel Design Manual

### NOTES:

1. All calculations for the properties of the panel are calculated in accordance with the 2001 edition of the Cold-Formed Steel Design Manual, published by the American Iron and Steel Institute (AISI).
2. Ixe is for deflection determination.
3. Sxe is for Bending.
4. Maxo is allowable bending moment.
5. All values are for one foot of the panel width

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### PBR PANEL FASTENER LOCATIONS



### NOTES:

1. The PBR panel has an unsymmetrical purlin bearing side lap leg. Panel side lap with extended foot to bear on frame. However, where possible, the panel should be lapped against prevailing wind.
2. The above are typical fastener spacings. However, they may not be appropriate for all applications. Consult a professional engineer for use on any specific application.
3. Minimum 1/2" x 3/32" tape sealer required at panel side laps when used as roof panel.
4. Side lap fasteners are required. Typical spacing is 20" O.C. However, the spacing may not be appropriate for all applications. Consult a professional engineer for use on any specific application.



## PBR Panel Properties

### ALLOWABLE USABLE LOADS IN POUNDS PER SQUARE FOOT

Span Type	Gauge	Load Type	1.00	2.00	3.00	4.00	5.00	6.00	7.00
Single	29	Negative Wind	814.0	203.5	90.4	50.9	32.6	22.6	16.6
		Pos. Wind/ Live Load/ (L/180)	559.8	139.9	62.2	33.2	17.0	9.8	6.2
		Pos. Wind/ Live Load/ (L/120)	559.8	139.9	62.2	35.0	22.4	13.2	8.3
	26	Negative Wind	1097.1	274.3	121.9	68.6	43.9	30.5	22.4
		Pos. Wind/ Live Load/ (L/180)	931.3	413.9	126.3	53.3	27.3	15.8	9.9
		Pos. Wind/ Live Load/ (L/120)	931.3	413.9	147.3	62.1	31.8	18.4	11.6
	24	Negative Wind	1190.4	297.6	132.3	74.4	47.6	33.1	24.3
		Pos. Wind/ Live Load/ (L/180)	1154.0	288.5	128.2	72.1	39.6	22.9	14.4
		Pos. Wind/ Live Load/ (L/120)	1154.0	288.5	128.2	72.1	44.1	25.5	16.1
	22	Negative Wind	1544.4	386.1	171.6	96.5	61.8	42.9	31.5
		Pos. Wind/ Live Load/ (L/180)	1677.8	419.4	186.4	104.9	55.9	32.4	20.4
		Pos. Wind/ Live Load/ (L/120)	1677.8	419.4	186.4	104.9	59.4	34.4	21.7
2-Span	29	Negative Wind	341.9	117.4	57.1	33.3	21.7	15.2	11.2
		Pos. Wind/ Live Load/ (L/180)	381.5	148.1	76.6	46.0	30.5	21.6	14.9
		Pos. Wind/ Live Load/ (L/120)	381.5	148.1	76.6	46.0	30.5	21.6	16.0
	26	Negative Wind	683.6	211.3	98.9	56.7	36.6	25.6	18.8
		Pos. Wind/ Live Load/ (L/180)	741.7	240.8	114.6	66.2	42.9	30.0	22.1
		Pos. Wind/ Live Load/ (L/120)	741.7	240.8	114.6	66.2	42.9	30.0	22.1
	24	Negative Wind	956.8	273.4	125.1	71.1	45.7	31.9	23.4
		Pos. Wind/ Live Load/ (L/180)	977.3	281.1	128.8	73.3	47.2	32.8	24.2
		Pos. Wind/ Live Load/ (L/120)	977.3	281.1	128.8	73.3	47.2	32.8	24.2
	22	Negative Wind	1420.2	400.1	182.4	103.6	66.6	46.3	34.1
		Pos. Wind/ Live Load/ (L/180)	1336.6	370.9	168.5	95.5	61.4	42.7	31.4
		Pos. Wind/ Live Load/ (L/120)	1336.6	370.9	168.5	95.5	61.4	42.7	31.4
3-Span	29	Negative Wind	378.4	138.1	69.0	40.8	26.7	18.8	13.9
		Pos. Wind/ Live Load/ (L/180)	411.4	168.5	90.3	55.4	32.1	18.6	11.7
		Pos. Wind/ Live Load/ (L/120)	411.4	168.5	90.3	55.4	37.1	24.8	15.6
	26	Negative Wind	779.1	254.5	121.3	70.1	45.5	31.8	23.5
		Pos. Wind/ Live Load/ (L/180)	832.9	286.9	139.7	81.5	51.5	29.8	18.8
		Pos. Wind/ Live Load/ (L/120)	832.9	286.9	139.7	81.5	53.1	34.7	21.9
	24	Negative Wind	1121.4	334.3	154.7	88.4	57.0	39.7	29.2
		Pos. Wind/ Live Load/ (L/180)	1142.4	343.3	159.3	91.0	58.7	40.9	27.3
		Pos. Wind/ Live Load/ (L/120)	1142.4	343.3	159.3	91.0	58.7	40.9	30.2
	22	Negative Wind	1674.0	490.5	226.0	128.8	82.9	57.8	42.6
		Pos. Wind/ Live Load/ (L/180)	1585.5	455.9	209.0	118.9	76.5	53.3	38.5
		Pos. Wind/ Live Load/ (L/120)	1585.5	455.9	209.0	118.9	76.5	53.3	39.2
4-Span	29	Negative Wind	367.6	131.6	65.2	38.3	25.1	17.6	13.0
		Pos. Wind/ Live Load/ (L/180)	402.7	162.3	86.0	52.4	34.1	19.7	12.4
		Pos. Wind/ Live Load/ (L/120)	402.7	162.3	86.0	52.4	34.9	24.9	17.6
	26	Negative Wind	750.1	240.7	114.0	65.7	42.6	29.7	21.9
		Pos. Wind/ Live Load/ (L/180)	805.6	272.3	131.6	76.5	49.7	31.6	19.9
		Pos. Wind/ Live Load/ (L/120)	805.6	272.3	131.6	76.5	49.7	34.8	25.7
	24	Negative Wind	1070.1	314.5	145.0	82.7	53.3	37.1	27.3
		Pos. Wind/ Live Load/ (L/180)	1091.1	323.1	149.3	85.2	54.9	38.3	28.2
		Pos. Wind/ Live Load/ (L/120)	1091.1	323.1	149.3	85.2	54.9	38.3	28.2
	22	Negative Wind	1594.5	461.1	211.7	120.5	77.5	54.0	39.8
		Pos. Wind/ Live Load/ (L/180)	1507.0	428.2	195.7	111.2	71.5	49.8	36.6
		Pos. Wind/ Live Load/ (L/120)	1507.0	428.2	195.7	111.2	71.5	49.8	36.6

#### NOTES:

1. Allowable loads are based on uniform span lengths.
2. Live Load or Positive Wind is limited by bending, shear, and/or combined shear & bending, which ever controls.
3. Negative Wind Load does not consider fastener pullout or pullover.
4. Panel weight has not been deducted from allowable loads.
5. Web crippling has not been checked and must be verified by the design professional for exterior and interior supports.
6. This material is subject to change without notice. Please contact SBS for most current data.

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