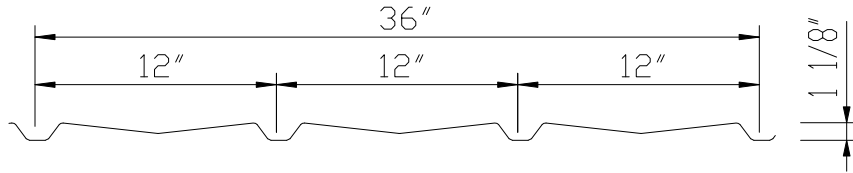


PBA Panel Properties



Section Properties								
Panel gauge	Fy (ksi)	Weight (psf)	Top Flat In Compression			Bottom Flat In Compression		
			Ix(in ⁴)	Sx (in ³ /ft.)	Ma (kip-in)	Ix(in ⁴)	Sx (in ³ /ft.)	Ma (kip-in)
29	60*	0.65	0.0147	0.0197	0.707	0.0187	0.0223	0.800
26	60*	0.84	0.0203	0.0282	1.012	0.0263	0.0321	1.153
24	50	1.06	0.0273	0.0383	1.147	0.0357	0.0440	1.317
22	50	1.34	0.0400	0.0514	1.537	0.0467	0.0572	1.713

*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

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. The Specification contains the design criteria for the cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If the information or guidance regarding cold-formed design practice is desired, please contact the manufacturer.

PBA 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.

PBA 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	533.1	133.3	59.2	33.3	21.3	14.8	10.9
		Pos. Wind/ Live Load/ (L/180)	471.3	117.8	47.5	20.0	10.3	5.9	3.7
		Pos. Wind/ Live Load/ (L/120)	471.3	117.8	52.4	29.5	18.9	11.3	7.1
	26	Negative Wind	768.7	192.2	85.4	48.0	30.7	21.4	15.7
		Pos. Wind/ Live Load/ (L/180)	674.7	222.2	65.8	27.8	14.2	8.2	5.2
		Pos. Wind/ Live Load/ (L/120)	674.7	299.9	107.9	53.9	27.6	16.0	10.1
	24	Negative Wind	877.8	219.4	97.5	54.9	35.1	24.4	17.9
		Pos. Wind/ Live Load/ (L/180)	764.4	191.1	84.9	37.3	19.1	11.1	7.0
		Pos. Wind/ Live Load/ (L/120)	764.4	191.1	84.9	47.8	30.6	21.2	13.6
	22	Negative Wind	1142.2	285.6	126.9	71.4	45.7	31.7	23.3
		Pos. Wind/ Live Load/ (L/180)	1024.4	256.1	113.8	54.6	28.0	16.2	10.2
		Pos. Wind/ Live Load/ (L/120)	1024.4	256.1	113.8	64.0	41.0	28.3	17.8
2-Span	29	Negative Wind	384.9	111.1	51.0	29.0	18.7	13.0	9.6
		Pos. Wind/ Live Load/ (L/180)	416.4	123.8	57.2	32.7	21.1	14.3	9.0
		Pos. Wind/ Live Load/ (L/120)	416.4	123.8	57.2	32.7	21.1	14.7	10.8
	26	Negative Wind	584.6	162.1	73.6	41.7	26.8	18.7	13.7
		Pos. Wind/ Live Load/ (L/180)	642.6	182.6	83.4	47.4	30.5	19.8	12.5
		Pos. Wind/ Live Load/ (L/120)	642.6	182.6	83.4	47.4	30.5	21.2	15.6
	24	Negative Wind	648.3	182.4	83.2	47.2	30.3	21.1	15.5
		Pos. Wind/ Live Load/ (L/180)	713.1	206.5	94.9	54.0	34.8	24.2	16.8
		Pos. Wind/ Live Load/ (L/120)	713.1	206.5	94.9	54.0	34.8	24.2	17.8
	22	Negative Wind	853.9	243.1	111.1	63.2	40.6	28.3	20.8
		Pos. Wind/ Live Load/ (L/180)	918.6	267.8	123.2	70.2	45.2	31.5	23.2
		Pos. Wind/ Live Load/ (L/120)	918.6	267.8	123.2	70.2	45.2	31.5	23.2
3-Span	29	Negative Wind	449.3	135.6	63.0	36.0	23.2	16.2	11.9
		Pos. Wind/ Live Load/ (L/180)	480.9	150.2	70.5	37.8	19.4	11.2	7.1
		Pos. Wind/ Live Load/ (L/120)	480.9	150.2	70.5	40.5	26.2	18.3	13.5
	26	Negative Wind	693.7	199.3	91.3	51.9	33.4	23.3	17.1
		Pos. Wind/ Live Load/ (L/180)	754.8	223.5	103.3	52.4	26.8	15.5	9.8
		Pos. Wind/ Live Load/ (L/120)	754.8	223.5	103.3	58.9	38.0	26.5	19.0
	24	Negative Wind	764.5	223.7	103.0	58.7	37.8	26.3	19.4
		Pos. Wind/ Live Load/ (L/180)	831.4	251.9	117.2	67.0	36.1	20.9	13.1
		Pos. Wind/ Live Load/ (L/120)	831.4	251.9	117.2	67.0	43.3	30.2	22.2
	22	Negative Wind	1002.2	297.5	137.5	78.5	50.6	35.3	26.0
		Pos. Wind/ Live Load/ (L/180)	1068.3	326.3	152.1	87.1	52.8	30.5	19.2
		Pos. Wind/ Live Load/ (L/120)	1068.3	326.3	152.1	87.1	56.2	39.2	28.9
4-Span	29	Negative Wind	429.3	127.7	59.1	33.7	21.7	15.1	11.2
		Pos. Wind/ Live Load/ (L/180)	461.1	141.7	66.2	37.9	20.5	11.9	7.5
		Pos. Wind/ Live Load/ (L/120)	461.1	141.7	66.2	37.9	24.5	16.8	10.6
	26	Negative Wind	659.3	187.1	85.5	48.6	31.2	21.7	16.0
		Pos. Wind/ Live Load/ (L/180)	719.8	210.2	96.7	55.1	28.5	16.5	10.4
		Pos. Wind/ Live Load/ (L/120)	719.8	210.2	96.7	55.1	35.5	23.3	14.7
	24	Negative Wind	728.0	210.2	96.5	54.9	35.3	24.6	18.1
		Pos. Wind/ Live Load/ (L/180)	794.8	237.2	109.9	62.7	38.3	22.2	14.0
		Pos. Wind/ Live Load/ (L/120)	794.8	237.2	109.9	62.7	40.4	28.2	19.7
	22	Negative Wind	955.9	279.8	128.9	73.4	47.3	33.0	24.3
		Pos. Wind/ Live Load/ (L/180)	1022.0	307.4	142.7	81.5	52.6	32.4	20.4
		Pos. Wind/ Live Load/ (L/120)	1022.0	307.4	142.7	81.5	52.6	36.7	27.0

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 manufacture for most current data.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. The Specification contains the design criteria for the cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If the information or guidance regarding cold-formed design practice is desired, please contact the manufacturer.