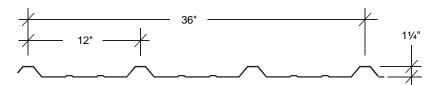


## **PBR PANEL**

2141 2nd AVE. S.W. Cullman, Alabama 35055 1.800.438.1606 256-739-6827

FAX: 800-438-1626

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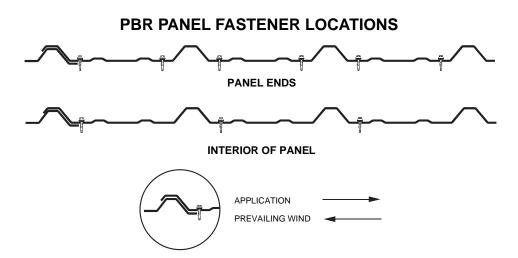
SECTION PROPERTIES													
			N	EGATIVE BENDIN	lG	POSITIVE BENDING							
PANEL	Fy	WEIGHT	lxe	Sxe	Maxo	lxe	Sxe	Maxo					
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)					
29	60 *	0.75	0.0219	0.0357	1.2835	0.0242	0.0234	0.8423					
26	60 *	0.94	0.0302	0.0511	1.8366	0.0369	0.0372	1.3373					
24	50	1.14	0.0404	0.0733	2.1953	0.0506	0.0521	1.5594					
22	50	1.44	0.0544	0.1042	3.1201	0.0709	0.0749	2.2427					

<sup>\*</sup> Fy is 80-ksi reduced to 60-ksi in accordance with the 2001 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members - A2.3.2.

#### NOTES:

- 1. All calculations for the properties of PBR panels are calculated in accordance with the 2001 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
- 2. ke is for deflection determination.
- 3. Sxe is for bending.
- 4. Maxo is allowable bending moment.
- 5. All values are for one foot of 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. This Specification contains the design criteria for 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 further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.



### **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 ½" x 3/32" tape sealer required at panel side laps when used as roof panels.
- 4. Side lap fasteners are required. Typical spacing is 20" O.C. However, this spacing may not be appropriate for all applications. Consult a professional engineer for use on any specific application.



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# PBR PANEL ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT.

0D 4N TV5=	LOADTVDE		SPAN IN FEET								
SPAN TYPE	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0			
SINGLE	NEGATIVE WIND LOAD	95.1	53.5	34.2	23.8	17.5	13.4	10.6			
	LIVE LOAD/DEFLECTION	60.3	33.1	16.9	9.8	6.2	4.1	2.9			
2-SPAN	NEGATIVE WIND LOAD	62.4	35.1	22.5	15.6	11.5	8.8	6.9			
	LIVE LOAD/DEFLECTION	51.6	33.8	21.9	15.3	11.3	8.7	6.9			
3-SPAN	NEGATIVE WIND LOAD	78.0	43.9	28.1	19.5	14.3	11.0	8.7			
	LIVE LOAD/DEFLECTION	58.6	41.6	27.1	18.5	11.6	7.8	5.5			
4 CDAN	NEGATIVE WIND LOAD	72.8	41.0	26.2	18.2	13.4	10.2	8.1			
4-SPAN	LIVE LOAD/DEFLECTION	56.4	39.0	25.4	17.8	12.4	8.3	5.8			
26 Gauge (Fy	r = 60 KSI)			•	•	•	•	•			
<u> </u>			SPAN IN FEET								
SPAN TYPE	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0			
SINGLE	NEGATIVE WIND LOAD	136.0	76.5	49.0	34.0	25.0	19.1	15.1			
	LIVE LOAD/DEFLECTION	99.1	50.4	25.8	14.9	9.4	6.3	4.4			
2-SPAN	NEGATIVE WIND LOAD	99.1	55.7	35.7	24.8	18.2	13.9	11.0			
	LIVE LOAD/DEFLECTION	87.3	54.6	35.2	24.5	18.1	13.9	10.7			
3-SPAN	NEGATIVE WIND LOAD	123.8	69.7	44.6	31.0	22.7	17.4	13.8			
	LIVE LOAD/DEFLECTION	99.2	67.7	43.8	28.2	17.7	11.9	8.3			
4-SPAN	NEGATIVE WIND LOAD	115.6	65.0	41.6	28.9	21.2	16.3	12.8			
	LIVE LOAD/DEFLECTION	95.5	63.4	40.9	28.6	18.8	12.6	8.9			
24 Gauge (Fy	- 50 KSI)			•		•	•				
	,	SPAN IN FEET									
SPAN TYPE	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0			
SINGLE	NEGATIVE WIND LOAD	162.6	91.5	58.5	40.7	29.9	22.9	18.1			
	LIVE LOAD/DEFLECTION	115.5	65.0	35.4	20.5	12.9	8.6	6.1			
2-SPAN	NEGATIVE WIND LOAD	115.5	65.0	41.6	28.9	21.2	16.2	12.8			
	LIVE LOAD/DEFLECTION	109.4	64.2	41.3	28.7	21.1	16.2	12.8			
	NEGATIVE WIND LOAD	144.4	81.2	52.0	36.1	26.5	20.3	16.0			
	LIVE LOAD/DEFLECTION	124.3	79.8	51.4	35.8	26.4	16.3	11.4			
4-SPAN	NEGATIVE WIND LOAD	134.8	75.8	48.5	33.7	24.8	19.0	15.0			
	LIVE LOAD/DEFLECTION	119.6	74.7	48.1	33.5	24.6	17.3	12.2			
22 Cours (Eu											
22 Gauge (Fy	= 50 KSI)				SPAN IN FEET	-					
SPAN TYPE	LOAD TYPE	3.0	4.0	5.0	6.0	7.0	8.0	9.0			
	NEGATIVE WIND LOAD	231.1	130.0	83.2	57.8	42.5	32.5	25.7			
			93.4	49.6	28.7	18.1	12.1	8.5			
SINGLE		I Inhii		70.0				18.5			
	LIVE LOAD/DEFLECTION	166.1 166.1		59.8	1 415						
SINGLE 2-SPAN	LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD	166.1	93.4	59.8 59.4	41.5	30.5 30.4	23.4				
2-SPAN	LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	166.1 163.1	93.4 92.5	59.4	41.3	30.4	23.3	18.4			
	LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD	166.1 163.1 207.7	93.4 92.5 116.8	59.4 74.8	41.3 51.9	30.4 38.1	23.3 29.2	18.4 23.1			
2-SPAN	LIVE LOAD/DEFLECTION NEGATIVE WIND LOAD LIVE LOAD/DEFLECTION	166.1 163.1	93.4 92.5	59.4	41.3	30.4	23.3	18.4			

#### NOTES:

- 1) Allow able loads are based on uniform span lengths and Fy = 50 and 60-ksi.
- 2) LIVE LOAD is limited by bending, shear, combined shear & bending and web crippling.
- 3) NEGATIVE WIND LOAD does not contain a 33.333% increase and does not consider fastener pullout or pullover.
- 4) Above loads consider a maximum deflection ratio of L/180.
- 5) The w eight of the panel has not been deducted from the allow able loads.
- 6) The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
- 7) This material is subject to change without notice. Please contact SBS for most current data.

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