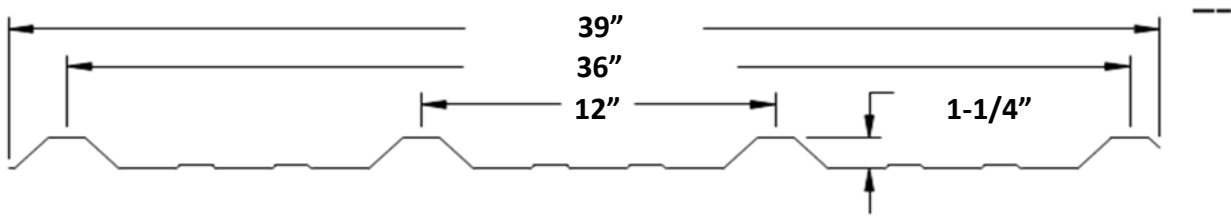




Alaska's Largest Manufacturer of Commercial and Residential Steel Building Components

PBR - Panel



PBR panel is the standard of choice for the pre-engineered steel building industry. An extremely versatile and economical exposed fastener panel suitable for both walls and roofs. 1-1/4" high ribs provide not only bold clean lines, but strength for large spans between framing support members.

MATERIAL SPECIFICATIONS

Gauge: 26

Weight: 2.77 lb. /LF

Steel Yield Stress: 80,000 psi

G-90 or AZ-50

Paint system: high-performance silicone-modified polyester paint system on an AZ50 substrate. Cutting edge resin technology offers durability, superior color retention and resistance to dirt accumulation, ensuring low maintenance, lasting beauty and outstanding value.

Gauge: 24

Weight: 3.50 lb. /LF

Steel Yield Stress: 50,000 psi

G-90 or AZ-50

Paint system: PVDF paints known throughout the industry to provide the best in overall performance. This super high-performance paint is used by architects for commercial, institutional, and industrial applications where not only appearance but longevity matters.

All Steel Inc. follows the national A.I.S.I. (American Iron and Steel Institute) specifications manual for tolerances in galvanized sheet metal.

LOAD TABLES

Gauge	Span Type	Positive Uniform Load Capacity (lb/ft ²)			
		2'-0"	3'-0"	4'-0"	5'-0"
26ga.	Single	240	107	60	38
	Double	252	117	66	43
	Cont.	307	144	82	53
24ga.	Single	289	128	72	46
	Double	278	128	73	47
	Cont.	338	158	91	58

1 ½" Bearing Length

Load Span Tables Based on Working Stress. Flexural Design analysis according to AISI "Specification for the Design of Light Gauge Cold-Formed Steel Structural Members" May 1981. Continuous Span Loading applies to sheets continuous over three or more spans

Weight of sheet has not been allowed for when calculating live load and Uplift.

ASD method was used to populate load table. Metal thickness based on minimum ASTM specifications for allowable load calculations. Loads may be increased by 1/3 for wind loads

Note: The load tables have been compiled for the design of steel roofing and siding used in conjunction with either wood or steel framed structures. All Steel Inc. assumes no responsibility, either expressed or implied, for its use.

Wind Speed	Live Loads (lbs. per Square Foot)
70 mph	12.6
80 mph	16.4
90 mph	20.8
100 mph	25.6
110 mph	31.0
120 mph	36.9
130 mph	43.3

Areas of discontinuity are subject to higher spikes in wind pressure, therefore a different coefficient in wind pressure will need to be considered and multiplied by a factor of 1.5 Data from: 1994 UBC Table

Roof Application: Fasteners to be applied along the side of every rib and attached to each purlin. Please note that it is the responsibility of the builder to insure that purlins are adequately spaced to meet specific engineering requirements.

All Steel Inc. is neither partially nor solely responsible for improper installation or defects as a result of installation.

Note: If panels are to be cut, or pre-drilled, be certain to wipe free any metal chips that have accumulated on the panel.







Wall Screw Application: Fasteners to be applied along the side of every rib and attached to each girt. Please note that it is the responsibility of the builder to insure girts are adequately spaced to meet specific engineering requirements

FASTENING

Screw fasteners have been proved to have two to three times the holding power of nails. Screws should have a minimum penetration of 5/8" into wood. Generally, 1" screw fasteners are placed in the flat area of the panel at 24" on-center along the length of the panel, and next to each rib approximately 1/2" from the rib. If purlins are placed over 24" apart, stitching screws are recommended on the lapping rib between purlins.

Nails are not recommended!

The use of nails to fasten panels is NOT recommended and will void any warranty.

Fastener #	Description	Use
1	 No. 9 x 1", 1-1/2", 2", 2-1/2", 3" Wood Screw 1/4" Hex Head	Panel to dimensional lumber
2	 No. 14 x 1", 1 1/2" Wood Screw 5/16" Hex Head	Panel to plywood min. 1/2" thick.
3	 No. 12 x 3/4" Stitch Screw 1/4" Hex Head (compatible with No. 9 Wood Screw)	Trim and side lap attachments.
4	 No. 14 x 7/8" Lap Self Driller 5/16" Hex Head (compatible with No. 14 Wood Screw)	Trim and side lap attachments.
5	 STST-42 Stainless Steel Rivet 1/8 x 1/8	Trim-to-trim or trim-to-panel attachments.
6	 No. 12 x 1", 1 1/2", 2", 2 1/2" Self Driller 5/16" Hex Head	Panel to purlin or deck attachments

DO NOT OVERDRIVE the fastener so as to dimple or distort the panel. Washers should be in firm contact with the panel.



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