



INTEGRITY METALS

Architectural Fabrication



FL PRODUCT
APPROVAL
38840.02-R0

IM36PBR

26 gauge (min) 36" wide exposed fastener PBR panel over steel purlins



Product Description: Exposed fastener PBR-style panel with a 36" coverage, and nominal rib height of 1-1/4."

Product Material: 26ga (min) steel. Corrosion resistance per FBC 1507.4.3 where required.

Fastener: #12 x 1-1/4 or 14 x 7/8" fastener with sealing washer. Larger diameter and longer length fasteners are acceptable. Stainless fasteners are acceptable. Compliant with FBC 1506.6 where required.

Substrate/Deck: 16ga (min) steel purlins.

Max. Allowable Loads & Installation Requirements:

Method A: **45.5 psf** | (1) #12 fastener per rib, fastener rows at 60" o.c. (1) #14 fastener in sidelap at 20" o.c.

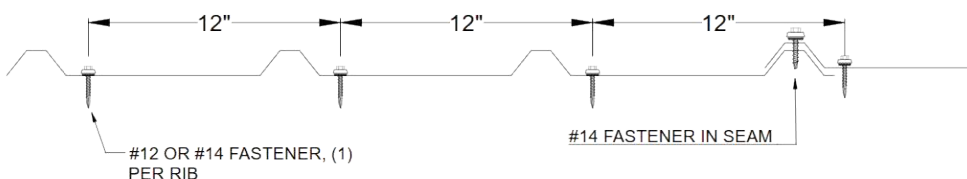
Method B: **105 psf** | (1) #14 fastener per rib, fastener rows at 24" o.c. (1) #14 fastener in sidelap at 12" o.c.

Interpolation of allowable loads for purlin spacings between 60" and 24" is permitted.

Factor of Safety of 2.0 applied to calculate allowable loads.

METHOD A: 60" OC

METHOD B: 24" OC



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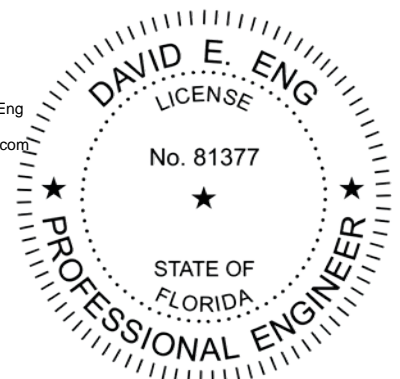
Evaluated By: David Eng, PE | Timberlake Cove, LLC

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This item has been digitally signed and sealed by D.E. Eng, PE, on the date indicated. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies





Compliance Statement:

This product as described has demonstrated compliance with Florida Building Code 2020, 1504.3.2 (non-HVHZ) as required by FL Rule 61G20-3, method 1D; subject to the exclusions/limitations noted below.

Underlayment: This is a structural metal panel that does not require a substrate or underlayment per FBC 1507.1.1, Exception 2.

Slope: Comply with local building code or FBC 1507.4.2 where required.

Panel Accessories: The manufacturer does not require the use of closures, sealants, butyl, or other similar accessories between bottom edge of panel and drip edge, or in other locations. The use of closures and sealants may be advisable in some cases, however that decision is the discretion of the project owner and the installer.

Technical Documentation:

This product has been tested to the following standards by Intertek Testing (TST 1527).

- ASTM E1592: report F8724.02-450-18 RO as referenced in FL 20745.2-R1. Test used with permission.

Design Process:

Compare the maximum allowable loads on page 1 to the ASD uplift pressures for the project to determine sufficiency and installation requirements.

Alternatively, as an option, the load tables in this report provides one prescriptive option for the fastening requirement for the applicable wind loads for roofs within the parameters described. For roofs outside of the listed parameters, design wind loads shall be determined as required by FBC 1609, ASCE 7, or other design code in force, using allowable stress. These load tables are based on ASCE 7-16. Use of these tables assumes that the structure is: Enclosed and conforms to wind-borne debris provisions and is a regular shaped building and is not subject to across-wind loading, vortex shedding, or instability; nor does it have a site location for which channeling or buffeting warrant consideration

Engineering analysis may be completed by other licensed engineers for project specific approval by local authorities having jurisdiction.

Certification of Independence:

David Eng, PE and Timberlake Cove, LLC do not have, nor will they acquire a financial interest in any company manufacturing or distributing products under this evaluation. The same entities do not have, nor will they acquire, a financial interest in any other entity involved in the approval or testing process of the product.

Exclusions and Limitations:

Design of deck and roof structure (to include deck attachment) shall be completed by others. Fire classification and shear diaphragm design are outside the scope of this evaluation. Accelerated weathering/salt spray is outside the scope of this evaluation. Static water leakage is outside the scope of this evaluation.

This report is limited to compliance with structural wind load requirements of FBC 1504.3.2, as required by Rule 61G20-3. Neither Timberlake Cove nor the manufacturer shall be responsible for any conclusions, interpretations, or designs made by others based on this evaluation report. This report is limited solely to documenting compliance with Rule 61G20-3, and makes no express or implied warranty regarding performance of this product.





Use this load table for structures which meet the following criteria:

Are located in **Exposure B** area

Have either a **flat roof, or gable/hip roof with max slope of 45°**

Have a mean roof height of **30 feet or less**

FL38840.02 26ga IM36PBR on 16ga purlins

Wind	120	130	140	150	160	170	180	190	200
Zone 1:	60"	60"	60"	60"	48"	48"	48"	36"	36"
Zone 2:	60"	48"	48"	36"	36"	36"	30"	NR	NR
Zone 3:	48"	48"	36"	36"	30"	24"	NR	NR	NR

Use this load table for structures which meet the following criteria:

Are located in **Exposure B** area

Have either a **flat roof less than 7°, hip roof with**

max slope of 45°, or gable roof with slope between 20° and 45°

Have a mean roof height of **30 feet or less**

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Wind	120	130	140	150	160	170	180	190	200
Zone 1:	60"	60"	60"	60"	48"	48"	48"	48"	36"
Zone 2:	60"	60"	48"	48"	48"	36"	36"	30"	24"
Zone 3:	60"	48"	48"	36"	36"	30"	24"	NR	NR

Use this load table for structures which meet the following criteria:

Are located in **B, C, or D exposure area**

Have either a **flat roof, or gable/hip roof with max slope of 45°**

Have a mean roof height of **30 feet or less**

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Wind	120	130	140	150	160	170	180	190	200
Zone 1:	48"	48"	48"	36"	36"	24"	NR	NR	NR
Zone 2:	36"	36"	30"	NR	NR	NR	NR	NR	NR
Zone 3:	36"	24"	NR	NR	NR	NR	NR	NR	NR

Use this load table for structures which meet the following criteria:

Are located in **B, C, or D exposure area**

Have either a **flat roof less than 7°, hip roof with**

max slope of 45°, or gable roof with slope between 20° and 45°

Have a mean roof height of **30 feet or less**

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Zone 2:	48"	36"	36"	30"	NR	NR	NR	NR	NR
Zone 3:	36"	30"	24"	NR	NR	NR	NR	NR	NR

OPTIONAL ENGINEERING LOAD TABLES

Instructions:

Select the appropriate load table that applies to the structure in question.

Determine the design wind speed for the project location.

Use the attachment method indicated for that windspeed within each roof zone.

NOTE: ASCE 7-16 and FBC 2020 adopt a 7-zone concept. For the load tables below, the worst case was taken for each zone and reported using the standard zones 1-2-3:

Zone 1 includes zones 1 and 1'

Zone 2 includes zones 2e, 2r, and 2n

Zone 3 includes zones 3e and 3r

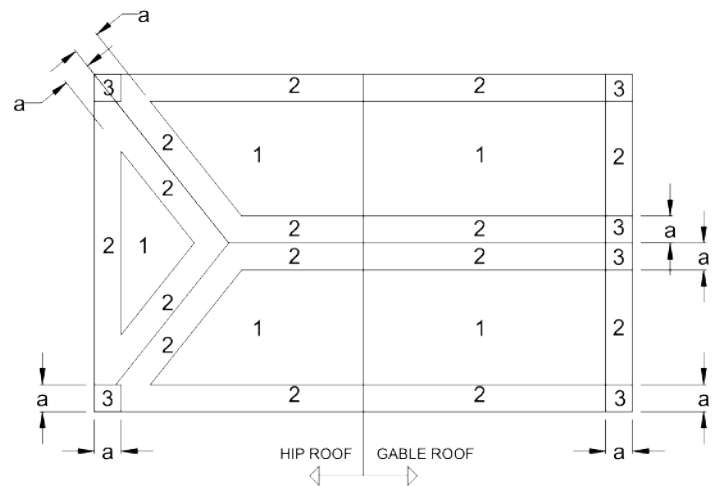
Combining these zones creates a clear, simple scheme, at the expense of some design efficiency. Contact the manufacturer for further information, or consult a licensed design professional.

Application:

There are conservative assumptions used in combining scenarios for these load tables for cases when the required design load is unknown. The maximum allowable loads for this product are shown on page 1 of this approval. If the required allowable design loads are known, and the required design loads are less than the allowable load of the product, then the product is sufficient for use, and these optional load tables can be ignored.

If the required design loads are NOT known, then the appropriate load table here may be used.

These optional load tables are subordinate to the max allowable loads shown on page 1 (they are merely one conservative application of those loads). In no case shall these load tables be interpreted to restrict the application of this product more than the max allowable loads shown on page 1. The max allowable loads shown on page 1 are the controlling design data for this product; NOT these optional load tables.



a: 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3FT (0.9M), OR AS DETERMINED BY DESIGN OR OTHER APPLICABLE CODE.

ROOF ZONES FOR GENERIC BUILDING

