

Steel PBU/M-Panel on Steel Purlins FL42382.13-R0

Steel PBU / M-Panel on 16ga Steel Purlins





PBU



PBU

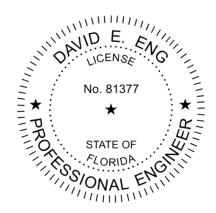




**M-Panel** 

## Evaluated by:

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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

# **Product Description**

Exposed fastener panel with nominal 0.75" rib height, and panel coverage of 36"

## Product Material

**26ga (min) steel** Corrosion resistant per FBC 1507.4.3 where required.

## Fastener

**#12 x 1.25" fastener with sealing washer** Fasteners compliant with FBC 1506.6 where required.

> Substrate/Deck 16ga (min) steel purlins <sup>Min 50 ksi</sup>

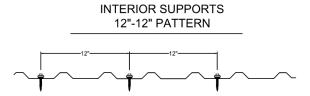


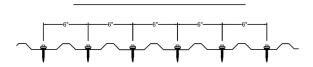


#### Maximum Allowable Loads & Installation Requirements:

This product approval covers 1 installation configuration. A factor of safety of 2 has been applied to all allowable uplift pressures shown.

 ½"x7/8" lap fastener at 20" o.c. Intermediate supports: 12"-12" fastener pattern (every other flat segment)
Panel ends: 6"-6" fastener pattern (every flat segment)
Method A: Fastener rows at 60.375" o.c.: 52.5 PSF





PANEL ENDS

**6"-6" PATTERN** 

**Underlayment:** Not required per FBC 1507.1.1, exception 2.

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

#### **Technical Documentation:**

This product has been tested by Force Engineering (TST5328) to the FM 4471 'Resistance to Foot Traffic' standard, report 07-0258T-11A, as referenced in FL 11819.6-R5.

This product has been tested by UL (TST9628) to the UL 580 standard, Roof Deck Construction No. 39, as referenced in FL 11819.6-R5.

#### **Compliance Statement:**

This product as described has demonstrated compliance with Florida Building Code 2023, 1709.2.2 (non-HVHZ), as required by FL Rule 61G20-3, method 1D.

This product as described has been tested and demonstrated compliance with:

- UL 580 Test for Uplift Resistance of Roof Assemblies
- FM 4471 Resistance to Foot Traffic





## **Design Process:**

Compare the maximum allowable loads on page 2 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 7-22. 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.

## **Optional Load Tables:**

These load tables are provided as a courtesy to provide one possible prescriptive option for a generic, typical structure without calculating the design pressures.

For structures outside the parameters of these load tables (e.g. height above 30 feet), calculate the required allowable design pressure and compare to the maximum allowable loads shown on page 2. <u>These load tables shall not be construed to in any way limit the installation of this product to the cases shown.</u>

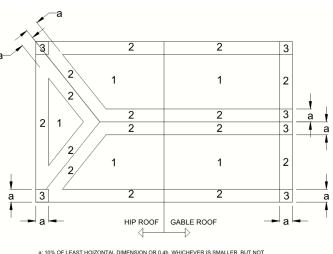
Contact the manufacturer for further information, or consult a licensed design professional.

## Instructions:

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

Determine the design wind speed for the project location.

Use the max fastener spacing indicated for that windspeed within each roof zone.



a: 10% OF LEAST HOIZONTAL 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





## **Locations and Trade Names**

This product is manufactured by Cornerstone Building Brands by one or more of the following brands, and is distributed under one or more the trade names shown below. Each brand maintains a variety of manufacturing facilities and trade names, to include the ones noted here. Contact the manufactures listed for the most up-to-date list of locations serving the Florida market.



# **Corporate Headquarters** 5020 Weston Parkway | Cary, NC 27513



**PBU** 1601 Rogers Road | Adel, GA 31620



**PBU** 1601 Rogers Rd | Adel, GA 31620



4020 SW 449 St | Horseshoe Beach, Florida 32648 6461 Topaz Court | Fort Myers, Florida 33966



**M-Panel** 490 Oak Rd. | Ocala, FL 34472 3365 US Hwy. 41 South | Tifton, GA 31794

## **Certification of Independence:**

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

## **Exclusions and Limitations:**

Design of deck and roof structure (to include attachment of plywood or wood plank) 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.

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. Installation shall be subject to the local building code and authority having jurisdiction; this report shall not be construed to supersede local codes in force.

