METAL ALLIANCE
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HVHZ
PBRWALL
FL39863.01-R0

24ga 25ALLPBRWALL PBR Wall Panel

24ga (min) 1-¼" PBR wall panel on 16ga (min) girts

Metal Alliance, Inc
2120 SW Poma Dr | Palm City FL 34990
Produced by Metal Alliance's Network of Approved Regional Manufacturers

Product Description

Exposed fastener corrugated panel with a 36 coverage and a nominal rib height of 1.25"

Product Material

24ga (min) steel

Fastener

#12 x 1.25" fastener with sealing washer
¼" sidelap fastener at 20" o.c. max

Girts

16ga (min) steel

Evaluated by:

David Eng, PE
Timberlake Cove, LLC
1317 Edgewater Dr, Ste 2339, Orlando FL
FL PE 81377 | FL CA 33344
www.TimberLakeCove.com

DAVID E. ENG
LICENSE
No. 81377
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Digitally signed by David E Eng
Contact Info: david.eng@timberlakecove.com
Date: 2021.10.06 17:38:57-04'00'

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.

25ALLPBRWALL

24ga PBR Wall Panel

Maximum Allowable Loads & Installation Requirements:

Method A: #12 x 1.25" fastener in 12"-12" pattern at 60" o.c.: **±53.3 PSF**
Method B: #12 x 1.25" fastener in 12"-12" pattern at 30" o.c.: **+160 PSF | -146.6 PSF**
A factor of safety of 1.5 has been applied.

Technical Documentation:

This product has been tested to the TAS 201 & TAS 203 standard by Intertek Testing (TST-1527), report M5026.01-450-18.

Compliance Statement:

This product as described has demonstrated compliance with Florida Building Code 2020, 1709.2 (**non-HVHZ**) and 1709.2/1626.1 (**HVHZ**), as required by FL Rule 61G20-3, method 1D.

This product as described has been tested and demonstrated compliance with:
• TAS 201 – Impact Test Procedures
• TAS 203 – Criteria for Testing Products Subject to Cyclical Wind Pressure Loading

Design Process:

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. If electing to not use the prepared tables, 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
- 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 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 roof structure (to include attachment of girts) 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 1403.3, as required by Rule 61G20-3. Per said rule, the Florida Building Commission is the authority to approve products for optional statewide use. The Florida Building Commission is ultimately responsible for approval of this product. 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.

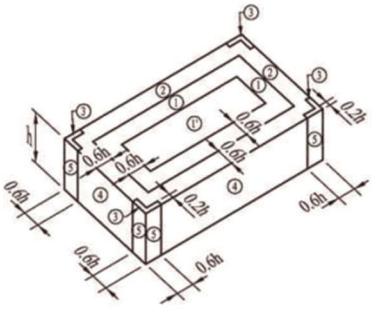
ENGINEERING LOAD TABLES

Instructions:

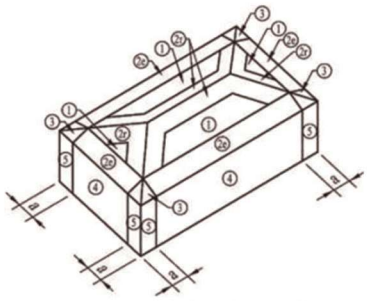
Select the appropriate load table that applies to the structure in question.

Determine the design wind speed for the project location.

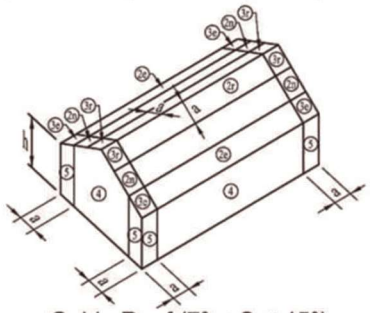
The number indicate for each windspeed and wall zone represents the minimum girt spacing.



Flat/Hip/Gable (0° ≤ Θ ≤ 7°)



Hip Roof (7° ≤ Θ ≤ 45°)



Gable Roof (7° < Θ ≤ 45°)

Notation

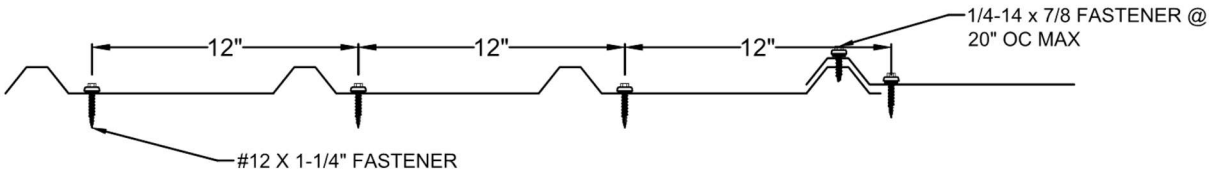
a = 10% of least horizontal dimension or $0.4h$, whichever is smaller, but not less than either 4% of least horizontal dimension or 3 ft (0.9 m).

Exception: For buildings with θ = 0° to 7° and a least horizontal dimension greater than 300 ft (90 m), dimension a shall be limited to a maximum of 0.8 h.

h = Mean roof height, in ft (m), except that eave height shall be used for roof angles <10°.

θ = Angle of plane of roof from horizontal, in degrees.

12"-12" PATTERN
USE OC SPACING SHOWN IN TABLE



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

Are located in **Exposure B** area

Have a mean Roof Height of **30 feet or less**

FL39863.01: 24ga PBR Wall Panel on 16ga steel framing

Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 4:	60	60	60	60	60	60	60	60	60	60	60
Zone 5:	60	60	60	60	60	60	60	60	60	60	48

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

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

Have a mean Roof Height of **30 feet or less**

FL39863.01: 24ga PBR Wall Panel on 16ga steel framing

Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 4:	60	60	60	60	60	60	60	48	48	48	48
Zone 5:	60	60	60	60	60	60	48	48	48	42	42