



Metal Roof Certification & Listing Program

Certification Report

11047-002-KCI



145 Limekiln Road, Suite 100B
New Cumberland, PA 17070
www.keystonecerts.com

Issue Date: 9/27/2019
Revision Date: 12/29/2020
Expiration Date: 12/29/2025

Construction Specifications Institute (CSI) Category:

Division: 07 00 00 – Thermal & Moisture Protection

Section: 07 41 13 – Metal Roof Panels

1. Program Licensee:



Matador Metal Buildings

121 Industrial Blvd

Thomasville, GA 31792

229-226-0911

<https://www.matadormetalbuildings.com/>

2. Certified Roof Covering:

Matador Metal Buildings' 26 Ga. PBR Panel 3' wide structural through-fastened metal roof panels installed over 16 gauge purlins for use in new construction and re-roofing applications.

3. Scope of Certification:

This Certification Report provides technical data substantiating that the use of the certified roof covering, and the evaluated roof systems are in compliance with the following:

- 2020 Florida Building Code - Building, 7th Edition, Section 1504.3.2.
- Florida Product Approval Rule 61G20-3.

Properties Evaluated:

- Wind Uplift Resistance
- Positive Loading
- Resistance to Foot Traffic

This Certification Report was used to qualify
Florida Product Approval No. FL 30481-R1.

4. Evaluated Roof System Description:

4.1. **Roof Covering:** 26 Ga. PBR Panel metal roof panels are cold roll-formed from minimum 26 gauge ASTM A792 Grade 80 steel sheet. The panels are aluminum-zinc alloy coated per ASTM A792 (AZ50), and shall be installed in accordance with the manufacturer's instructions and this Certification Report.

4.2. **Roof Deck:** 26 Ga. PBR Panels are certified for use over 16 gauge purlins, spaced 60" O.C. and complying with 2020 Florida Building Code, with a minimum slope of 4% (1/2:12). Lap sealant shall be applied for installed slopes less than 25% (3:12).

4.3. **Anchorage:** 26 Ga. PBR Panels shall be through-fastened to the spaced supports using #12-14 x 1-1/4" SFS Impax HWH screws with sealing washer or equivalent, and at the panel laps using SFS Lap Tek 1/4" x 14 x 7/8" @ 20" O.C. as specified in Table 1 and illustrated in Appendix 1.



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5. Installation

26 Ga. PBR Panels in new construction applications shall be installed in accordance with the 2020 Florida Building Code Section 1507.4, the manufacturer's published installation instructions and this Certification Report.

The manufacturer's installation instructions shall be made available at the time of installation. If there are differences between this report and the manufacturer's installation instructions, this report shall take precedence.

6. Product Performance

The performance of the 26 Ga. PBR Panels described in this Certification Report has been determined in accordance with:

- ASTM E1592-05(2012), *Standard Test Method for the Structural Performance of Sheet Metal Roof and Siding by Uniform Static Air Pressure Difference*.
- FM 4470-16, *Resistance to Foot Traffic Test*.

As tested & reported by the following independent accredited laboratory:

Laboratory	Report Ref.
Force Engineering & Testing	693-0046T-19E / 06-0074T-09E 693-0046T-19F / 06-0074T-09F

Note: The ASTM E1592-01 standard is equivalent to the ASTM E1592-05(2012) standard.

6.1. Wind Resistance

The allowable positive and negative design pressures for 26 Ga. PBR Panels anchored as illustrated in Appendix 1, when tested in accordance with the referenced standards with an applied safety factor of 2.0 are found in Table 1.

Table 1

Description	Anchor Pattern	Anchor Man'f & Model	Max Pos & Neg Design Pressure
Over 16 Gauge Purlin Spaced Supports	12"-12"-12" @ 60" O.C.	SFS Impax HWH #12-14 x 1-1/4"	+ 60.0 \ - 50.0 psf

6.2. Resistance to Foot Traffic

The 26 Ga. PBR Panels were tested per the referenced standard installed over 16 gauge purlins using the Anchor Pattern described in Table 1. The resultant deflection under load and permanent deflection were within the allowable limits defined by the standard.

7. Conditions of Use

26 Ga. PBR Panels must be insulated against other materials or metals including concrete, lead, copper and treated lumber that contains corrosive materials.



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8. Limitations of Use

26 Ga. PBR Panels are not qualified for use in the High Velocity Hurricane Zone (HVHZ).

Fire classification, shear diaphragm design, roof deck design & attachment to supporting members are not within the scope of this Certification Report.

Roof support framing shall comply with 2020 Florida Building Code Chapter 22 for steel, and Chapter 16 for structural loading.

9. Licensed Manufacturing Facilities

This Certification Report is applicable only to 26 Ga. PBR Panels manufactured at the following location:

Matador Metal Buildings
121 Industrial Blvd
Thomasville, GA 31792

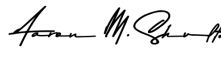
Each licensed facility is subject to periodic inspection by Keystone Certifications to verify conformance with Keystone Roof Covering Certification & Listing Program requirements.

10. Identification

26 Ga. PBR Panels represented by this report shall be identified with Keystone Roof Covering Certification & Listing Program certification labeling illustrated below, to be applied to individual panels, packaging, invoicing or bills of lading:



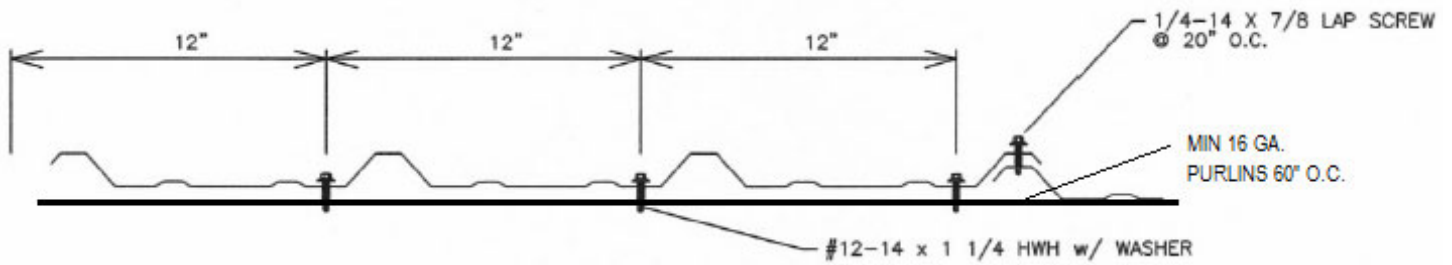
2020.12.29
13:38:42
-05'00'

 
Validations Manager

Aaron Shultz
Validations Manager

Appendix 1

Notes: In all cases (new construction, re-roofing and re-covering), the anchors shall fully penetrate the spaced supports. Lap sealant shall be applied for installed slopes less than 25% (3:12).





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Certificate Revisions

Rev #	Date	Description
0	9/27/2019	Initial issuance.
1	12/29/2020	Updated to 2020 Florida Building Code, updated associated Standard years, changed "Issue Dated" in header to "Issue Date," removed reference to legacy versions of FM-4470 in Section 6, corrected spelling of "Gauge" in Table 1.