



Metal Roof Certification & Listing Program

Certification Report



11027-002-KCI

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

Issue Dated: 9/28/2017
Revision Date: 01/23/2018
Expiration Date: 9/28/2022

This Certification Report was used in the qualification of [Florida Product Approval FL 23310](#).

Construction Specifications Institute (CSI) Category:

Division: 07 00 00 – Thermal & Moisture Protection

Section: 07 41 13 – Metal Roof Panels

1. Program Licensee:



Mid Florida Metal Roofing Supply, Inc.

28328 County Road 561

Tavares, FL 32778

352-742-7070

<http://www.midfloridametalroofingsupply.com>

2. Certified Roof Covering:

MFMRS PBR Panel through-fastened metal roof structural panels installed over minimum 16 gauge steel purlins (spaced supports) 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 panels in the evaluated roof systems are in compliance with the following:

- 2017 Florida Building Code - Building, 6th Edition, Section 1504.3.2 and 1504.7.
- Florida Product Approval Rule 61G20-3.

Properties Evaluated:

- Wind Uplift Resistance
- Impact Resistance

4. Evaluated Roof System Description:

4.1. **Roof Covering:** MFMRS PBR Panel metal roof structural panels are 36" wide (coverage) and cold roll-formed from minimum 26 gauge (0.019" / 0.483mm coated thickness) steel sheet having a minimum yield strength of 80.0ksi. 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:** MFMRS PBR Panel metal roof structural panels are certified for use over minimum 16 gauge steel purlins complying with 2017 Florida Building Code, with a minimum slope of 4% (1/2:12).

4.3. **Anchorage:** MFMRS PBR Panel metal roof structural panels shall be through-fastened to the minimum 16 gauge purlins using #12-14 x 1-1/4" Atlas HWH SD with EDPM-sealing washer in the fastener patterns described in Appendix 1.

5. Installation

MFMRS PBR Panel metal roof structural panels in new construction applications shall be installed in accordance with the 2017 Florida Building Code Section 1507.4, the manufacturer's published installation instructions and this Certification Report.

MFMRS PBR Panel metal roof structural panels in re-roofing applications shall be installed in accordance with the 2017 Florida Building Code Sections 1507.4 & 1511, the manufacturer's published installation instructions and this Certification Report.



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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 MFMRS PBR Panel through-fastened metal roof structural panels described in this Certification Report has been demonstrated via testing in accordance with the following referenced standards:

- ASTM E1592-01, *Standard Test Method for the Structural Performance of Sheet Metal roof and Siding Systems By Uniform Static Air Pressure Difference.*
- FM 4471-92, Section 5.4 *Foot Traffic Resistance.*

As tested & reported by the following independent accredited laboratory:

Laboratory	Report Ref.
Force Engineering & Testing	194-0338T-06A, B 194-0134T -11B

Note: The ASTM E1592-01 standard is equivalent to the ASTM E1592-05(2012) standard. The FM 4471-92 Section 5.4 standard is equivalent to FM 4470-2012 Section 4.6.

6.1. Wind Resistance

The allowable Ultimate Positive Wind / Live Load Capacity and Ultimate Wind Uplift Capacity for MFMRS PBR Panels anchored as described in Appendix 1, when tested in accordance with the referenced standard with an applied safety factor of 2.0 are found in Table 1.

Table 1

Description	Ultimate Positive Wind / Load Capacity	Ultimate Wind Uplift Capacity
Over Minimum 16 Gauge Purlins, Maximum 5’ 0” O. C.	+ 60.0 psf	-42.5 psf

7. Conditions of Use

MFMRS PBR Panel through-fastened metal roof structural panels must be insulated against other materials or metals including concrete, lead, copper and treated lumber that contains corrosive materials.

8. Limitations of Use

MFMRS PBR Panel structural through-fastened metal roof structural 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 2017 Florida Building Code Chapter 22 for steel and Chapter 16 for structural loading.



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9. Licensed Manufacturing Facilities

This Certification Report is applicable only to MFMRS PBR Panel structural through-fastened metal roof structural panels manufactured at the following locations. Each licensed facility is subject to periodic inspection by Keystone Certifications to verify conformance with Keystone Roof Covering Certification & Listing Program requirements:

Mid Florida Metal Roofing Supply, Inc. 28328 County Road 561 Tavares, Florida 32778

10. Identification

MFMRS PBR Panel structural through-fastened metal roof structural 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:



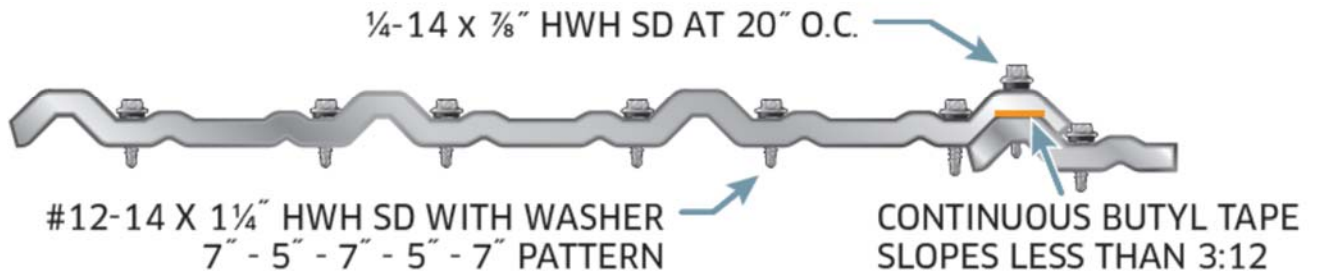
Aaron Shultz
Validations Manager

Appendix 1

Note: In all cases (new construction and re-roofing), the anchors shall fully penetrate the purlins.

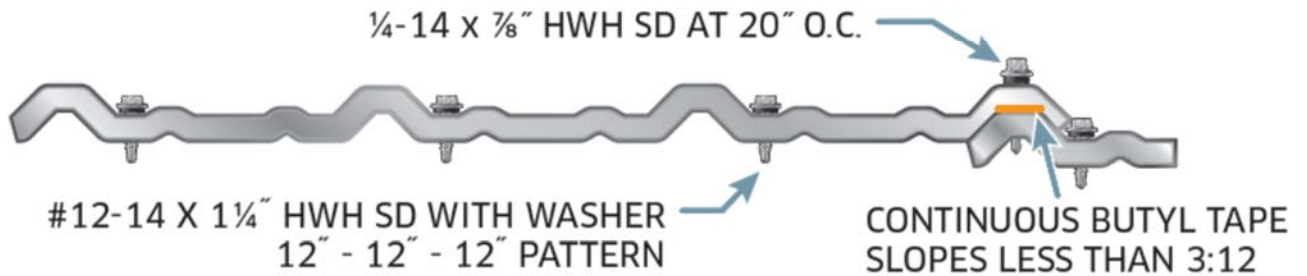
PBR Fastener Location for Panel End and Panel End Laps

Panel fasteners fully penetrate substrate purlins.



PBR Fastener Location for Interior Supports

Panel fasteners fully penetrate substrate purlins.





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Certificate Revisions

Rev #	Date	Description
0	9/28/2017	Initial issuance.
1	01/23/2018	Added Hyperlink FL23310