



Metal Roof Certification & Listing Program

Certification Report



11030-002-KCI

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

Issue Dated: 11/29/2017
Revision Date: 12/22/2020
Expiration Date: 12/22/2025

Construction Specifications Institute (CSI) Category:

Division: 07 00 00 – Thermal & Moisture Protection

Section: 07 41 13 – Metal Roof Panels

1. Program Licensee:



Reed's Metals, Inc.
19 E. Lincoln Drive NE
Brookhaven, Mississippi 39601
800-581-4645
<https://reedsmetals.com/>

2. Certified Roof Covering:

Reeds Metals Model PBR Panel non-structural through-fastened minimum 26 gauge metal roof panels installed over nominal 15/32" plywood sheathing roof deck 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

This Certification Report was used in the qualification of [Florida Product Approval FL 24508-R1](#).

4. Evaluated Roof System Description:

4.1. **Roof Covering:** PBR Panel metal roof panels are 36" wide (coverage) and cold roll-formed from minimum 26 gauge (0.020" / 0.508mm coated thickness) minimum Grade 80 steel. The panels are coated per the following:

- aluminum-zinc alloy coated per ASTM A792, minimum AZ50.

Or:

- zinc-coated per ASTM A653, minimum G-90.

And Optionally:

- pre-painted per ASTM A755

and shall be installed in accordance with the manufacturer's instructions and this Certification Report.

4.2. **Roof Deck:** PBR Panel metal roof panels are certified for use over solid or closely-spaced, nominal 15/32" plywood sheathing complying with 2020 Florida Building Code, Section 2303.1.5 with a minimum slope of 4% (1/2:12).

4.3. **Anchorage:** PBR Panel metal roof panels shall be through-fastened to the roof deck using #9-15 x 1-1/2" SFS Intec Woodgrip HWH with EPDM-sealing washer or approved equivalent, as specified in Table 1, applied in the patterns described in Appendix 1.



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5. Installation

PBR Panel metal roof 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.

PBR Panel metal roof panels in re-roofing applications shall be installed in accordance with the 2020 Florida Building Code Sections 1507.4 & 1511, 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 PBR Panel metal roof panels described in this Certification Report has been determined in accordance with:

- UL 580-06, *Tests for Uplift Resistance of Roof Assemblies.*
- UL 1897-2012, *Uplift Tests for Roof Covering Systems.*

As tested & reported by the following independent accredited laboratory:

Laboratory	Report Ref.
Force Engineering & Testing	101-0211T-17A & B

6.1. Wind Resistance

The allowable design uplift pressures for PBR Panels anchored as described 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	Max Design Uplift Pressure
Over 15/32" Plywood Sheathing	A 12"-12"-12", 24" O.C.	-56.0 psf
Over 15/32" Plywood Sheathing	B 7"-5"-7"-5"-7", 12" O.C.	-146.0 psf

7. Conditions of Use

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

8. Limitations of Use

PBR Panel metal roof 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, Chapter 23 for wood and Chapter 16 for structural loading.



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9. Licensed Manufacturing Facilities

This Certification Report is applicable only to PBR Panel metal roof panels manufactured at the following locations:

<p>Reed's Metals, Inc. 19 E. Lincoln Drive NE Brookhaven, Mississippi 39601</p> <p>Reeds Metals Inc. 4020 SW 449 St. Horseshoe Beach, FL 32648</p>
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Each licensed facility is subject to periodic inspection by Keystone Certifications to verify conformance with Keystone Roof Covering Certification & Listing Program requirements.

10. Identification

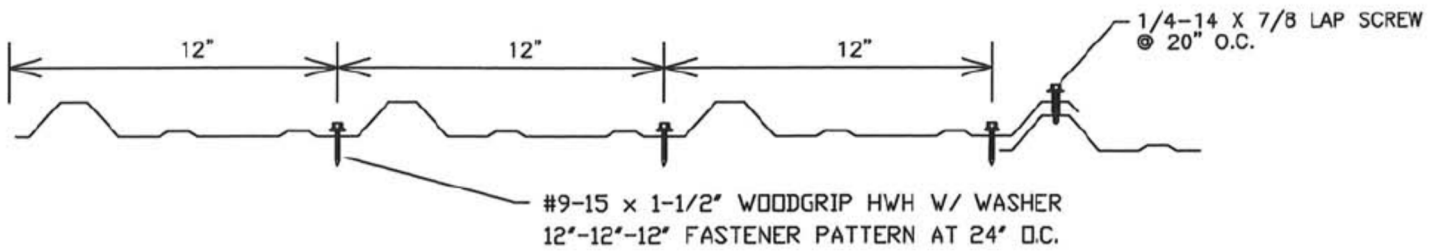
PBR Panel metal roof panels represented by this report shall be identified with Keystone Roof Covering Certification & Listing Program certification labeling illustrated below, to be applied to individual panels, packaging, invoicing or bills of lading:

Aaron Shultz
Validations Manager

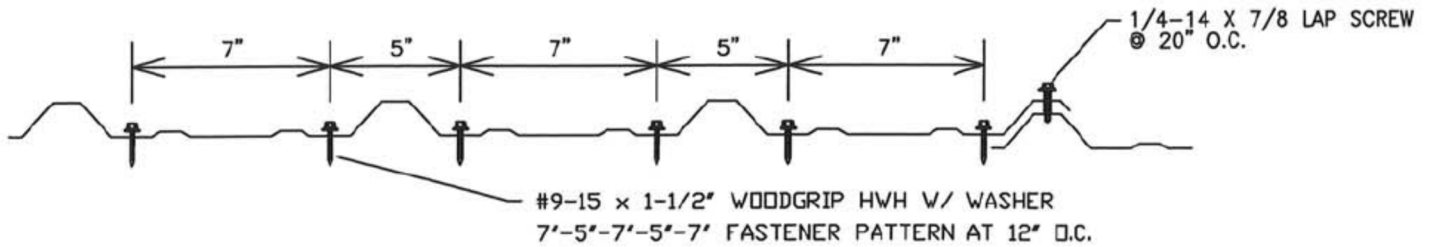
Appendix 1

Notes: In all cases (new construction and re-roofing), the anchors shall fully penetrate the plywood roof deck.
 Lap sealant is required for slopes less than 3:12.

Anchor Pattern A



Anchor Pattern B





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Certificate Revisions

Rev #	Date	Description
0	11/29/2017	Initial issuance.
1	12/15/2017	Revised Section 4.1 to add reference to multiple material specs.
2	01/23/2018	Added hyperlink for FL24508
3	1/26/2017	Inserted the word "minimum" before material specifications.
4	9/3/2019	Updated ANSI Logo to proper requirements.
5	12/22/2020	Updated to 2020 Florida Building Code.