



# Metal Roof Certification & Listing Program

## Certification Report



11033-001-KCI

145 Limekiln Road, Suite 100B  
New Cumberland, PA 17070  
[www.keystonecerts.com](http://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 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:

- 2020 Florida Building Code - Building, 7th Edition, Section 1504.3.2 and 1504.7.
- Florida Product Approval Rule 61G20-3.

### Properties Evaluated:

- Wind Uplift Resistance
- Impact Resistance

*This Certification Report was used in the qualification of [Florida Product Approval FL 24510-R1](#).*

### 4. Evaluated Roof System Description:

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

- aluminum-zinc alloy coated per ASTM A792 (AZ50)

Or:

- zinc-coated per ASTM A653 (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:** Reeds Metals PBR Panel metal roof structural panels are certified for use over minimum 16 gauge steel purlins complying with 2020 Florida Building Code, with a minimum slope of 4% (1/2:12).

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

### 5. Installation

Reeds Metals PBR Panel metal roof structural 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.



# Metal Roof Certification & Listing Program

## Certification Report

### 11033-001-KCI



Reeds Metals PBR Panel metal roof structural 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 Reeds Metals 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 E1592-05 (2012), *Standard Test Method for the Structural Performance of Sheet Metal roof and Siding Systems By Uniform Static Air Pressure Difference.*
- FM 4470-2016, Section 4.6 *Resistance to Foot Traffic Test.*

As tested & reported by the following independent accredited laboratory:

Laboratory	Report Ref.
Force Engineering & Testing	101-0212T-17A-D 101-0120T-12A

The FM 4471-10 test standard is equivalent to the FM 4470-2016 test standard.

### 6.1. Wind Resistance

The allowable Ultimate Positive Wind / Live Load Capacity and Ultimate Wind Uplift Capacity for Reeds Metals 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, 12”-12”-12” Anchor Pattern, <b>Maximum 5’ 0” O.C.</b>	<b>+ 49.4 psf</b>	<b>-41.6 psf</b>
Over Minimum 16 Gauge Purlins, 12”-12”-12” Anchor Pattern, <b>Maximum 2’ 0” O.C.</b>	<b>+156.0 psf</b>	<b>-122.2 psf</b>

### 7. Conditions of Use

Reeds Metals 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.



# Metal Roof Certification & Listing Program

## Certification Report

### 11033-001-KCI



### 8. Limitations of Use

Reeds Metals 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 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 Reeds Metals 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:

Reed's Metals, Inc.  
19 E. Lincoln Drive NE  
Brookhaven, Mississippi 39601

Reeds Metals Inc.  
4020 SW 449 St.  
Horseshoe Beach, FL 32648

### 10. Identification

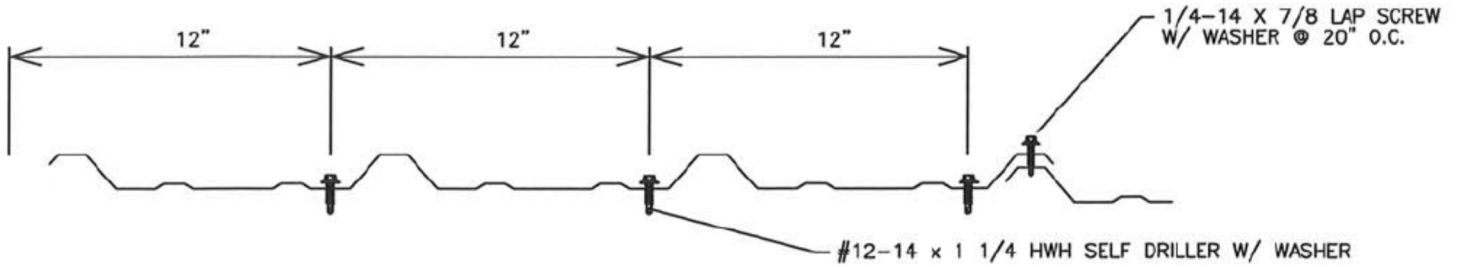
Reeds Metals PBR Panel structural through-fastened metal roof structural panels represented by this report shall be identified with Keystone Roof Covering Certification & Listing Program certification labeling illustrated below, to be applied to individual panels, packaging, invoicing or bills of lading:



Aaron Shultz  
Validations Manager

## Appendix 1

Notes: In all cases (new construction and re-roofing), the anchors shall fully penetrate the purlins. Lap sealant is required for slopes less than 3:12 (25%).





Metal Roof Certification & Listing Program  
**Certification Report**  
11033-001-KCI



145 Limekiln Road, Suite 100B  
New Cumberland, PA 17070  
[www.keystonecerts.com](http://www.keystonecerts.com)

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

**Certificate Revisions**

Rev #	Date	Description
0	11/29/2017	Initial issuance.
1	12/7/2017	Revised coating spec and added FM 4471 equivalency statement.
2	01/23/2018	Added Hyperlink for FL24510
3	9/3/2019	Updated ANSI Logo to proper requirements.
4	12/22/2020	Updated to 2020 Florida Building Code.

Refer to [www.keystonecerts.com](http://www.keystonecerts.com) to ascertain the ongoing status of this Compliance Certificate. Approval of building products and/or materials can only be granted by the building official having jurisdictional legal authority. Keystone Certifications, Inc. does not endorse or make warranties with respect to product performance or suitability of a product for a given use.