



# Metal Roof Certification & Listing Program Compliance Report



11033-004-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 Model Secure-Seam structural standing seam minimum 26 gauge metal roof panels, nominal 14" coverage, installed over minimum 16 gauge purlins for use in new construction 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
- 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:** Secure-Seam metal roof panels are cold roll-formed from minimum 26 gauge (0.021" / 0.508mm coated thickness) Grade 80 steel sheet. 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:** Secure-Seam 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 2% (1/4:12).

4.3. **Anchorage:** Secure-Seam metal roof panels shall be anchored to the purlins using SFS Intec G90 galvanized 18 Gauge 1-3/4" Snap Lock (2 Hole) Clips with two (2) #10-16 x 1" Triangle Fastener pancake head self-drilling screws or approved equivalent, applied in the anchorage patterns described in Table 1 and as illustrated in Appendix 1.



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### 5. Installation

Secure-Seam 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.

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. Performance and Limitations of Use

The performance of the Secure-Seam structural standing seam metal roof 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 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	101-0157T-15A & B 101-0157T-15C

**Note:** The ASTM 1592-05 (2012) standard is equivalent to the UL 1592-05 standard, and the FM 4471-10 standard is equivalent to the FM 4470-16 standard.

### 6.1. Wind Resistance

The allowable design uplift pressures for Secure-Seam 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	Max Design Uplift Pressure
Over Minimum 16 Gauge Steel Purlins	<b>A</b> 48" O.C.	<b>-26.0 psf</b>
Over Minimum 16 Gauge Steel Purlins	<b>B</b> 12" O.C.	<b>-88.4 psf</b>

### 7. Conditions of Use

Secure-Seam standing seam 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

Secure-Seam standing seam 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 Secure-Seam standing seam 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.

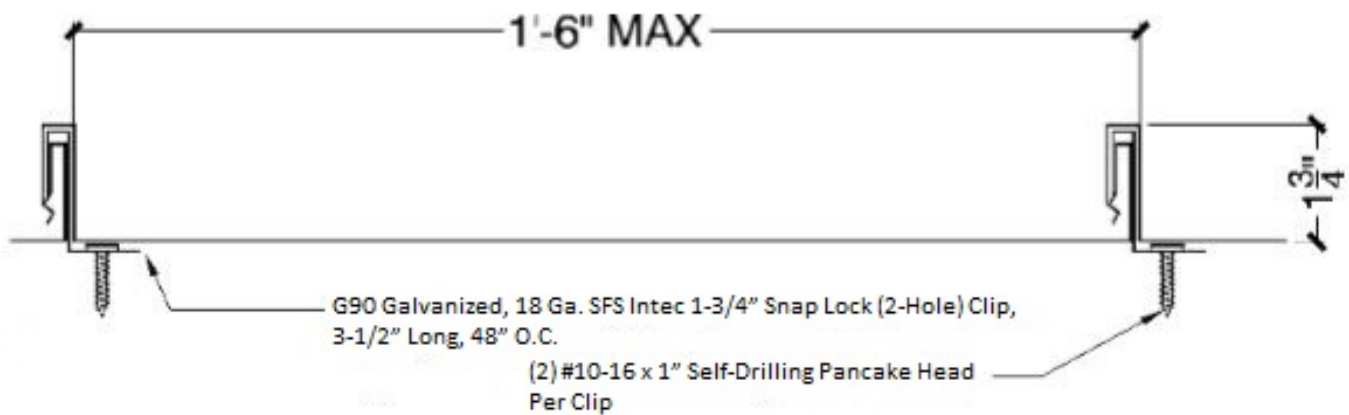
## 10. Identification

Secure-Seam standing seam 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

### Anchor Pattern A



### Anchor Pattern B





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**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 FL24510
3	9/3/2019	Updated ANSI Logo to proper requirements.
4	12/22/2020	Updated to 2020 Florida Building Code.

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