



Metal Roof Certification & Listing Program

Certification Report



11033-009-KCI

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

Issue Dated: 1/22/2018
Revision Date: 1/27/2018
Expiration Date: 1/22/2023

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 24 Gauge Secure-Seam non-structural standing seam minimum 24 gauge metal roof panels installed over 1x4 purlins over nominal 15/32" plywood sheathing roof deck, with or without asphalt shingles and one layer of 30# felt paper between the purlins and the roof deck, for use in 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:

- 2017 Florida Building Code - Building, 6th 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](#).

4. Evaluated Roof System Description:

4.1. **Roof Covering:** 24 Ga. Secure-Seam metal roof panels are 18" wide (coverage) and are cold roll-formed from minimum 24 gauge (0.024" / 0.610mm coated thickness) minimum Grade 50 steel sheet. 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:** 24 Ga. Secure-Seam metal roof panels are certified for use over minimum #2 grade 1x4 purlins over solid or closely-spaced, nominal 15/32" plywood sheathing complying with 2017 Florida Building Code, Section 2303.1.5 with a minimum slope of 2% (1/4:12).

4.3. **Anchorage:** 24 Ga. Secure-Seam metal roof panels shall be anchored to the purlins using SFS Intec G90 galvanized 18 Gauge 3.5" x 1.827" (2 Hole) Clips with two (2) #10-9 x 1-1/8" TFC ULP Pancake Head or approved equivalent, applied in the anchorage patterns described in Table 1 and illustrated in Appendix 1. The 1x4 purlins were attached to the plywood deck with 8D x 2-1/2" hot galvanized ring shank nails 3" O.C. and fully penetrating the plywood deck.



5. Installation

24 Ga. Secure-Seam metal roof 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.

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 24 Ga. Secure-Seam non-structural standing seam 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	101-0242T-17C & D

6.1. Wind Resistance

The allowable design uplift pressures for 24 Ga. 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 1x4 Purlins Over 15/32” Plywood Sheathing, with or without Asphalt Shingles and 30# Felt Between Purlins and Sheathing	A Panel Clips 24” O.C.	-78.5 psf
	B Panel Clips 12” O.C.	-101.0 psf

7. Conditions of Use

24 Ga. 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

24 Ga. 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 2017 Florida Building Code Chapter 22 for steel, Chapter 23 for wood and Chapter 16 for structural loading.



Metal Roof Certification & Listing Program Compliance Report 11033-009-KCI



9. Licensed Manufacturing Facilities

This Certification Report is applicable only to 24 Ga. 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. 16454 SE Highway 19 Cross City, Florida 32628</p>	<p>Aaron Shultz Validations Manager</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

24 Ga. 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:



Appendix 1

Anchor Pattern A



Anchor Pattern B





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Certificate Revisions

Rev #	Date	Description
0	1/19/2018	Initial issuance.
1	1/25/2018	Added hyperlink for FL24508
2	1/27/2018	Inserted the word "minimum" before material specifications, added without asphalt shingle option.