



Metal Roof Certification & Listing Program

Certification Report



11030-007-KCI

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

Issue Dated: 6/20/2018
Revision Date: 6/20/2018
Expiration Date: 6/20/2023

Construction Specifications Institute (CSI) Category:

Division: 07 00 00 – Thermal & Moisture Protection

Section: 07 41 13 – Metal Roof Panels

1. Program Licensee:



1st Coast Metal Roofing Supply
186 SR 207
East Palatka, FL 32131
386-325-0242
<http://www.1stcoastmrs.com/>

2. Certified Roof Covering:

1st Coast Metal Roofing Supply's Armour Rib 3' Wide AG Panel 29 Ga. structural through-fastened metal roof panels installed over nominal 2 x 4 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:

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

Properties Evaluated:

- Wind Uplift Resistance
- Resistance to Foot Traffic

This Certification Report was used to qualify Florida Product Approval FL-27567.

4. Evaluated Roof System Description:

4.1. **Roof Covering:** Armour Rib 3' Wide AG Panels are cold roll-formed from minimum 29 gauge ASTM A792 Grade 80 steel sheet. 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:** Armour Rib 3' Wide AG Panels are certified for use over nominal 2 x 4 SYP purlins (spaced supports) complying with 2017 Florida Building Code, Section 2303.1.8, with a minimum slope of 4% (1/2:12), lap sealant shall be applied for installed slopes less than 25% (3:12). The purlins were attached to the 2 x 10 SYP rafters construction with (2) #9x3" deck screws at 24" O.C.

4.3. **Anchorage:** Armour Rib 3' Wide AG Panels shall be through-fastened to the spaced supports using #10-15 x 1-1/2" Woodgrip HiLo HWH wood screws with bond-seal washer or equivalent, as specified in Table 1 and illustrated in Appendix 1.



Metal Roof Certification & Listing Program
Certification Report
 11030-007-KCI



5. Installation

Armour Rib 3' Wide AG 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.

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 Armour Rib 3' Wide AG Panel 29 Ga. structural through-fastened 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 1897-04, *Uplift Tests for Roof Covering Systems.*
- FM 4470, *Resistance to Foot Traffic Test.*

As tested & reported by the following independent accredited laboratory:

Laboratory	Report Ref.
Force Engineering & Testing	593-0258T-15B
	646-0022T-18B
	593-0054T-16
	646-0022T-18

Note: The UL 1897-04 standard is equivalent to the UL 1897-2012 standard.

6.1. Wind Resistance

The allowable design uplift pressures for Armour Rib 3' Wide AG Panels 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	Anchor Man'f & Model	Max Design Uplift Pressure
Over Nominal 2x4 SYP Purlin Spaced Supports	9"-9"-9"-9" 24" O.C.	SFS HiLo Woodgrip #10-15 x 1-1/2"	93.5 psf

6.2. Resistance to Foot Traffic

The Armour Rib 3' Wide AG Panels were tested per the referenced standard installed using the Anchor Pattern described in Table 1 over 2x4 SWP. The resultant deflection under load and permanent deflection were within the allowable limits defined by the standard.

7. Conditions of Use

Armour Rib 3' Wide AG 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

11030-007-KCI



8. Limitations of Use

Armour Rib 3' Wide AG 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.

9. Licensed Manufacturing Facilities

This Certification Report is applicable only to Armour Rib 3' Wide AG Panels manufactured at the following location:

1st Coast Metal Roofing Supply
186 State Rd 207
East Palatka, Florida 32131

Each licensed facility is subject to periodic inspection by Keystone Certifications to verify conformance with Keystone Roof Covering Certification & Listing Program requirements.

10. Identification

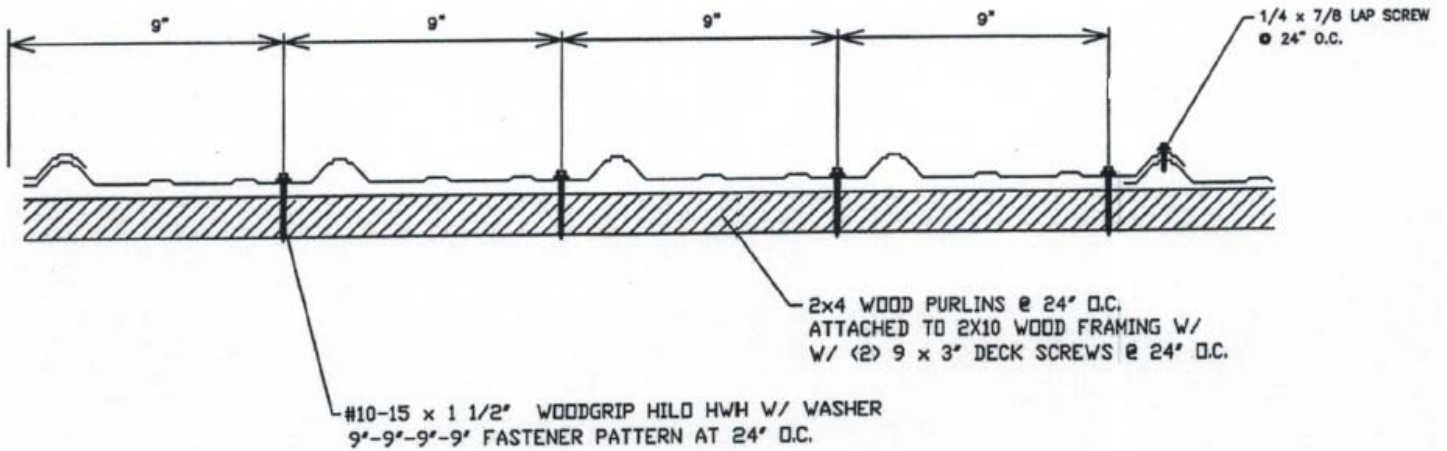
Armour Rib 3' Wide AG Panels represented by this report shall be identified with Keystone Roof Covering Certification & Listing Program certification labeling illustrated below, to be applied to individual panels, packaging, invoicing or bills of lading:



Aaron Shultz
Validations Manager

Appendix 1

Note: Lap sealant shall be applied for installed slopes less than 25% (3:12).





Metal Roof Certification & Listing Program

Certification Report

11030-007-KCI



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

Issue Dated: 6/20/2018
Revision Date: 6/20/2018
Expiration Date: 6/20/2023

Certificate Revisions

Rev #	Date	Description
0	6/20/2018	Initial issuance.