



Metal Roof Certification & Listing Program Certification Report



11030-005-KCI

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

Issue Dated: 6/21/2018
Revision Date: 1/11/2021
Expiration Date: 10/12/2025

Construction Specifications Institute (CSI) Category:

Division: 07 00 00 – Thermal & Moisture Protection
Section: 07 41 13 – Aluminum roof and wall 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 Model Armour Rib 0.032” thick aluminum non-structural through-fastened roof and wall panels installed over plywood sheathing roof deck for use in new construction, re-roofing and re-covering 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 to qualify Florida Product Approval FL 24397-R6.

4. Evaluated Roof System Description:

- 4.1. **Roof Covering:** Armour Rib 0.032” aluminum roof and wall panels are cold roll-formed from ASTM B209 minimum 0.032” thick aluminum corrosion-resistant coiled sheet. The panels shall be installed in accordance with the manufacturer’s instructions and this Certification Report.
- 4.2. **Roof Deck:** Armour Rib 0.032” aluminum roof and wall panels are certified for use over solid or closely-spaced, nominal 15/32” 4 Ply CDX Plywood sheathing complying with 2020 Florida Building Code - Building, 7th Edition, Section 2303.1.5, with a minimum slope of 4% (1/2:12). Lap sealant shall be applied for installed slopes less than 25% (3:12).
- 4.3. **Anchorage:** Armour Rib 0.032” aluminum roof and wall panels shall be through-fastened to the roof deck using ST Fastening Systems SS Wood Binder #10x 1-1/2” HiLo HWH wood screws with bonded washer or equivalent, as specified in Table 1, applied in the patterns illustrated in Appendix 1.
- 4.4. **Underlayment** Armour Rib 0.032” aluminum roof and wall panels in new construction applications shall be installed over underlayment meeting the applicable material type and attachment details specified in FBC 7th Edition Table 1507.1.1.1., steel, galvanized steel, lead, copper and treated lumber that contains corrosive materials.



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5. Installation

Armour Rib 0.032" aluminum roof and wall panels in new construction applications shall be installed in accordance with the 2020 Florida Building Code – Building, 7th Edition, Section 1507.4, the manufacturer’s published installation instructions and this Certification Report.

Armour Rib 0.032" aluminum roof and wall panels in re-roofing and re-covering applications may be installed over a single layer of existing shingles and shall be installed in accordance with the 2020 Florida Building Code – Building, 7th Edition, 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 Armour Rib 0.032" aluminum roof and wall panels described in this Certification Report has been determined in accordance with:

- UL 580-06, *Tests for Uplift Resistance of Roof Assemblies*.

As tested & reported by the following independent accredited laboratory:

Laboratory	Report Ref.
Intertek	I2151.02-450-44-R1

6.1. Wind Resistance

The allowable design uplift pressures for Armour Rib 0.032" aluminum roof and wall 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 15/32" 4 Ply CDX Plywood	9"-9"-9"-9" at 6" O.C.	ST Fastening Systems SS Wood Binder Stainless Steel HiLo HWH #10 x 1-1/2"	78.5 psf

7. Conditions of Use

Armour Rib 0.032" aluminum roof and wall panels must be insulated against other materials or metals including steel, galvanized steel, lead, copper and treated lumber that contains corrosive materials.



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8. Limitations of Use

Armour Rib 0.032" aluminum roof and wall panels aluminum roof and wall 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 – Building, 7th Edition, 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 0.032" aluminum roof and wall panels manufactured at the following locations:

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 0.032" thick aluminum non-structural through-fastened aluminum roof and wall 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:

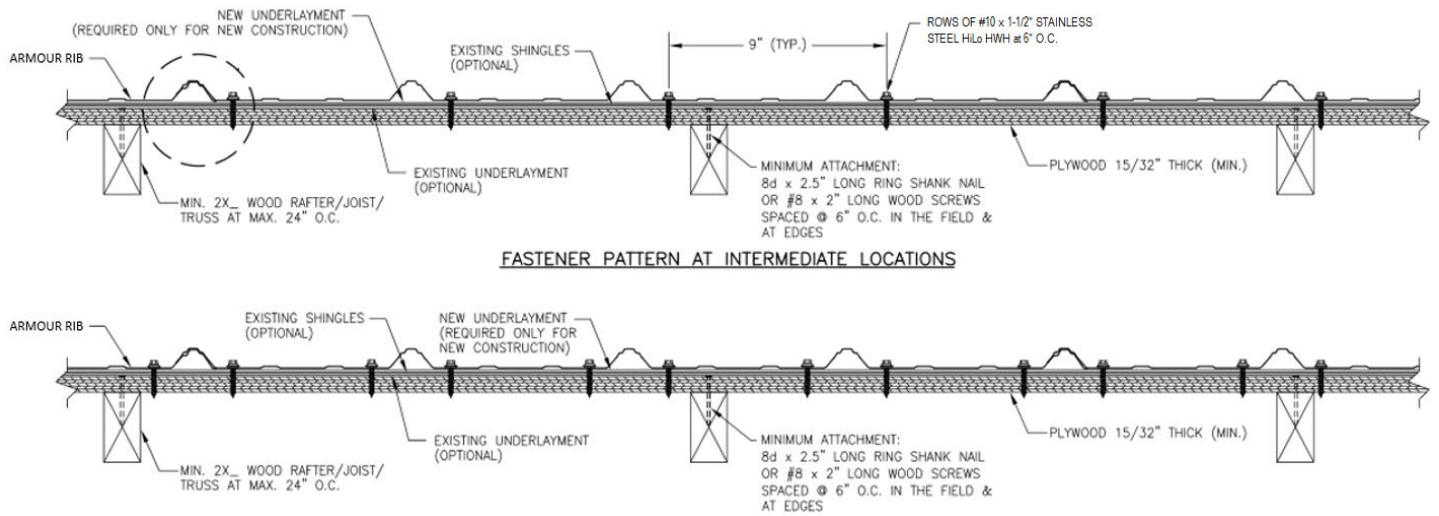


Aaron M. Shultz
Validation Manager

Appendix 1

Notes: In all cases (new construction, re-roofing and re-covering), the anchors shall fully penetrate the plywood roof deck. Lap sealant shall be applied for installed slopes less than 25% (3:12).

Anchor Detail Illustration





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Certificate Revisions

Rev #	Date	Description
0	06/21/2018	Initial issuance.
1	03/12/2019	Updated Model name to include aluminum roof "and wall panels"
2	9/3/2019	Updated ANSI Logo to proper requirements
3	10/7/2019	Revised anchorage illustrations for clarity, added reference to optional re-roofing / re-covering installation over "one layer of existing shingles".
4	10/12/2020	Updated to 2020 FBC 7th Edition.
5	1/11/2021	Corrected Model name. Updated FPA link.