



Metal Roof Certification & Listing Program

Certification Report



10108-001-KCI

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

Issue Dated: 3/13/2018
Revision Date: 3/13/2018
Expiration Date: 3/13/2023

Construction Specifications Institute (CSI) Category:

Division: 07 00 00 – Thermal & Moisture Protection

Section: 07 41 13 – Metal Roof Panels

1. Program Licensee:



Gulf Coast Supply & Mfg., LLC
14429 SW 2ND Place, Suite G30
Newberry, FL 32669
352-498-0778
<http://www.gulfcoastsupply.com>

2. Certified Roof Covering:

Gulf Coast's 29 Gauge Gulf Rib through-fastened metal roof structural panels installed over minimum 20 gauge steel "Hi Hat" channel 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:

- 2017 Florida Building Code - Building, 6th Edition, Section 1504.3.2 and 1504.7.
- Florida Product Approval Rule 61G20-3.

Properties Evaluated:

- Wind Uplift Resistance
- Impact Resistance

4. Evaluated Roof System Description:

4.1. **Roof Covering:** 29 Gauge Gulf Rib metal roof structural panels are 36" wide (coverage) and cold roll-formed from minimum 29 gauge ASTM A792 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:** 29 Gauge Gulf Rib metal roof structural panels are certified for use over minimum 20 gauge steel purlins complying with 2017 Florida Building Code, with a minimum slope of 4% (1/2:12). Installed slopes less than 3:12 require the use of lap sealant

4.3. **Anchorage:** 29 Gauge Gulf Rib metal roof structural panels shall be through-fastened to the minimum 20 gauge purlins using #12-14 x 1-1/4" ZAC SD3 HWH with bond washer or equivalent, in the fastener patterns described in Table 1 and Appendix 1.



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5. Installation

29 Gauge Gulf Rib metal roof structural 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.

29 Gauge Gulf Rib metal roof structural 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. Product Performance

The performance of the 29 Gauge Gulf Rib 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 4471-92, Section 5.4 *Foot Traffic Resistance.*

As tested & reported by the following independent accredited laboratory:

Laboratory	Report Ref.
Intertek Architectural Testing	G7286.01-450-44
Force Engineering & Testing	117-0238T-09E

Note: The FM 4471-92 Section 5.4 standard is equivalent to FM 4470-2012 Section 4.6.

6.1. Wind Resistance

The allowable Ultimate Wind Uplift Capacity for 29 Gauge Gulf Rib 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 Wind Uplift Capacity
Anchor Pattern A48 Over Minimum 20 Gauge Purlins, Maximum 48” O. C.	-30.0 psf
Anchor Pattern B48 Over Minimum 20 Gauge Purlins, Maximum 48” O. C.	-54.0 psf
Anchor Pattern B24 Over Minimum 20 Gauge Purlins, Maximum 24” O. C.	-100.0 psf

7. Conditions of Use

29 Gauge Gulf Rib 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.

8. Limitations of Use

29 Gauge Gulf Rib 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 2017 Florida Building Code Chapter 22 for steel and Chapter 16 for structural loading.



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9. Licensed Manufacturing Facilities

This Certification Report is applicable only to 29 Gauge Gulf Rib 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:

Aaron Shultz
Validations Manager

<p>Gulf Coast Supply & Mfg. Inc. 4020 SW 449th St. Horseshoe Beach, Florida 32648</p> <p>14480 NW US Highway 441 Alachua, Florida 32615</p> <p>8200 Haywood Taylor Blvd. Sebring, Florida 33870</p> <p>861-B Plantation Way Montgomery, Alabama 36117</p>

10. Identification

29 Gauge Gulf Rib 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:

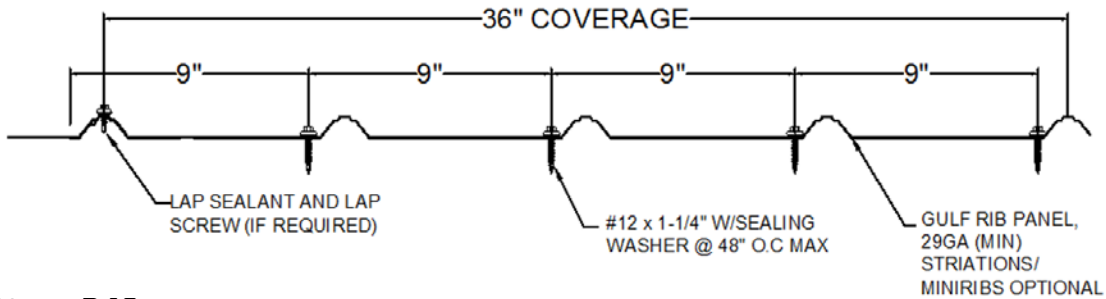


Appendix 1

Note: In all cases (new construction and re-roofing), the anchors shall fully penetrate substrate purlins.

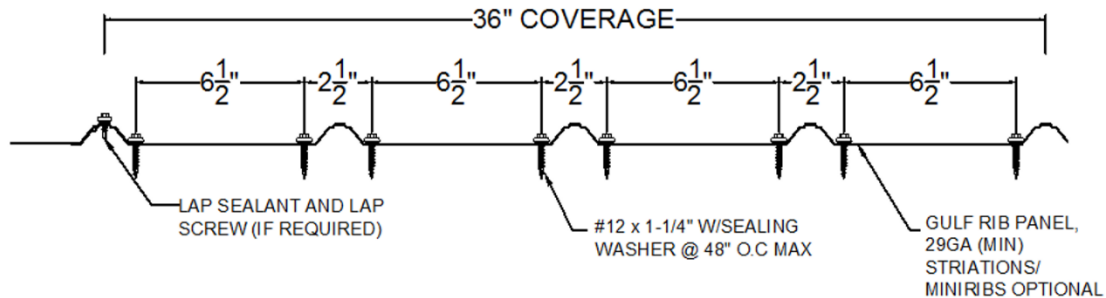
Anchor Pattern A48

9"-9"-9" FASTENER PATTERN (LAP SCREW OPTIONAL)
FASTENER ROW SPACING: 48" OC



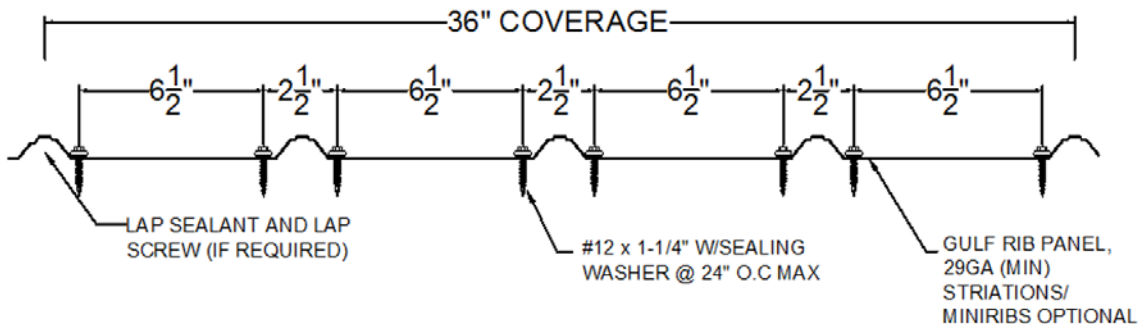
Anchor Pattern B48

6.5"-2.5"-6.5" FASTENER PATTERN (LAP SCREW OPTIONAL)
FASTENER ROW SPACING: 48" OC



Anchor Pattern B24

6.5"-2.5"-6.5" FASTENER PATTERN (LAP SCREW OPTIONAL)
FASTENER ROW SPACING: 24" OC





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Certificate Revisions

Rev #	Date	Description
0	3/12/2018	Initial issuance.