



Metal Roof Certification & Listing Program

Certification Report



11030-001-KCI

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

Issue Dated: 9/1/2017
Revision Date: 9/6/2017
Expiration Date: 9/1/2022

Construction Specifications Institute (CSI) Category:

Division: 07 00 00 – Thermal & Moisture Protection

Section: 07 41 13 – Metal Roof Panels

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

1. Program Licensee:

Properties Evaluated:

- Wind Uplift Resistance



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 5V Crimp Panel non-structural through-fastened minimum 26 gauge metal roof panels installed over nominal 7/16" OSB sheathing roof deck 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 covering and the evaluated roof systems are in compliance with the following:

4. Evaluated Roof System Description:

- 4.1. **Roof Covering:** 5V Crimp Panel metal roof covering panels are cold roll-formed from minimum 26 gauge (0.020" / 0.508mm coated thickness) steel sheet having a minimum yield strength of 50.0ksi. 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:** 5V Crimp metal roof panels are certified for use over solid or closely-spaced, nominal 7/16" OSB sheathing complying with 2017 Florida Building Code, Section 2303.1.8 with a minimum slope of 25% (3:12).
- 4.3. **Anchorage:** 5V Crimp Panel metal roof panels shall be through-fastened to the roof deck using #9-15 x 1-1/2" Woodbinder ST-XL hex-head wood screws with EPDM-sealing washer, as specified in Table 1, applied in the patterns described in Appendix 1.
- 4.4. **Underlayment:** 5V Crimp Panel metal roof panels in new construction applications shall be installed over underlayment complying with ASTM D226, Type I or Type II, and shall be applied in accordance with 2017 Florida Building Code, Section 1507.4.5, the manufacturer's installation instructions and this Certification Report.



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5. Installation

5V Crimp Panel metal roof 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.

5V Crimp Panel 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. Product Performance

The performance of the 5V Crimp Panel non-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.*

As tested & reported by the following independent accredited laboratory:

Laboratory	Report Ref.
Force Engineering & Testing	99-0284T-15A & B

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

6.1. Wind Resistance

The allowable design uplift pressures for 5V Crimp Panel anchored as described 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 7/16” OSB Sheathing	A (16” O.C.)	Woodbinder ST-XL	-52.5 psf
Over 7/16” OSB Sheathing	B (24” O.C.)	Woodbinder ST-XL	-63.5 psf

7. Conditions of Use

5V Crimp Panel non-structural through-fastened 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

5V Crimp Panel non-structural through-fastened 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.



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9. Licensed Manufacturing Facilities

This Certification Report is applicable only to 5V Crimp Panel non-structural through-fastened metal roof 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

5V Crimp Panel non-structural through-fastened 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:

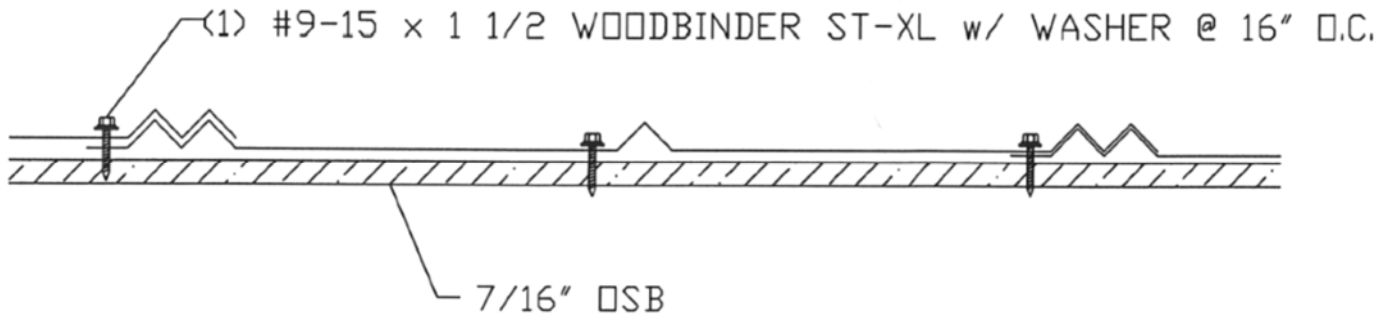


Aaron Shultz
Validations Manager

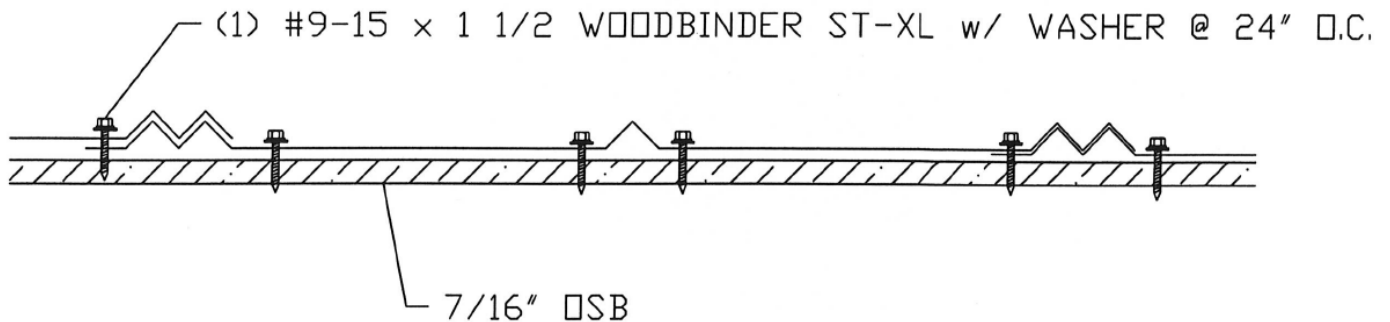
Appendix 1

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

Anchor Pattern A



Anchor Pattern B





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Certificate Revisions

Rev #	Date	Description
0	9/1/2017	Initial issuance.
1	9/6/2017	Revised 2017 FBC Particleboard Section reference to 2301.1.8.