



# Metal Roof Certification & Listing Program

## Evaluation Report



KCI-99999-999

564 Old York Road Suite 5  
Etters, PA 17319  
[www.keystonecerts.com](http://www.keystonecerts.com)

Issue Dated: 9/23/2015  
Revision Date: 10/14/2015  
Expiration Date: 9/23/2020



### Construction Specifications Institute (CSI) Category:

**Division:** 07 00 00 – Thermal & Moisture Protection  
**Section:** 07 41 13 – Metal Roof Panels

### 1. Program Licensee:

ABC Roofing, Inc.  
580 West Main Street  
Anytown, AL 45106  
505-555-5555  
[www.abcroofing.com](http://www.abcroofing.com)  
[eng@abcroofing.com](mailto:eng@abcroofing.com)

### 2. Certified Roof Covering:

ABC 5-V non-structural, standing seam, through-fastened metal roof panels, to be installed over solid or closely fitted minimum 19/32" wood-based sheathing roof deck, for use in new construction and re-roofing applications.

### 3. Scope of Certification:

This Evaluation Report provides technical data substantiating that the use of the certified roof covering and the evaluated roof system is in compliance with the following codes:

- 2012 & 2009 International Building Code (IBC)
- 2012 & 2009 International Residential Code (IRC)

### Properties Evaluated:

- Weather Protection
- Performance Requirements
- Materials
- Requirements for Roof Coverings

### 4. Evaluated Roof System Description:

**4.1. Roof Covering:** ABC 5-V metal roof covering panels are cold roll-formed from 26 gauge (minimum 0.0149" uncoated thickness) steel sheet having a minimum yield strength of 50.0 ksi. The panels are aluminum-zinc alloy coated per ASTM A792 AZ50 and employing a polyvinylidene fluoride (PVDF) coating meeting ASTM A755. The panels are through-fastened to a solid or closely-fitted wood-based roof deck.

See Appendix A for illustrated ABC 5-V panel details.

**4.2. Roof Deck:** ABC 5-V metal roof panels are certified for use through-fastened to solid or closely-fitted, minimum 15/32" plywood sheathing or wood plank complying with IBC Section 2304.7.2, with a minimum slope of 3 in 12.

**4.3. Anchorage:** ABC 5-V metal roof panels shall be anchored to the roof deck using #10 x 1-1/2" hex-head wood screws with weather-sealing washer, applied a maximum 10.5" on center with 24" row spacing as illustrated in Appendix 1 Figures 2 & 3.

**4.4. Underlayment:** Underlayment shall be employed, complying with ASTM D226 Type I, and shall be applied in accordance with the manufacturer's installation instructions, IBC Section 1507.5.3 and this Evaluation Report. Installations in areas where there has been a history of ice forming along the eaves shall include an ice barrier as described in IBC Section 1507.5.4.

**4.5. Flashing:** Flashing shall be employed at wall and roof intersections, at gutters, wherever there is a change in roof direction and around roof penetrations. Flashing must be of the same material or compatible with the metal roof panel material and with the building or structure to which the flashing is applied.

**5. Installation**

ABC 5-V metal roof panels shall be installed in accordance with the applicable IBC Section 1507.5 or IRC Section R905.10, the manufacturer’s published installation instructions and this Evaluation Report.

Flashing shall be made watertight in accordance with the applicable IBC Section 1503.2 or IRC Section R903.2, and in accordance with the manufacturer’s installation instructions.

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.

Design of the roof deck and its attachment to support framing is beyond the scope of this evaluation.

**6. Performance and Limitations of Use**

The performance of the ABC 5-V metal roof panels and the roof system described in this Evaluation Report has been demonstrated via accredited laboratory testing in accordance with Keystone *Metal Roof Certification & Listing Program* requirements.

**6.1. Wind Resistance**

The wind resistance of ABC 5-V metal roof covering panels anchored as described in this report has been demonstrated to withstand wind uplift loads of **-79 psf** when tested in accordance with UL 580, *Tests for Uplift Resistance of Roof Assemblies*.

**6.2. Fire Classification**

Use of ABC 5-V metal roof covering panels installed as described in this report is limited to **Non-Classified Roofing**.

**7. Conditions of Use**

ABC 5-V metal roof covering panels must be insulated against other materials or metals that contain corrosive materials, including concrete, lead and treated lumber.

**8. Licensed Manufacturing Facilities**

This Evaluation Report is applicable only to ABC 5-V metal roof panels manufactured at the following locations subject to periodic inspection by Keystone Certifications to verify conformance with Keystone Roof Covering Certification & Listing Program requirements:

ABC Roofing, Inc. 580 Main Street Anytown, GA 45106	ABC Roofing West, Inc. 222 West Hill Street West Anytown, GA 45107
---	--

**9. Identification**

ABC 5-V metal roof panels represented by this report shall be identified with labeling on the individual panels or on panel packaging, to include the name or trademark of the Licensee and the following Keystone Roof Covering Certification & Listing Program required labeling, with the Keystone Certification Mark, Evaluation Report Number and the [www.keystonecerts.com](http://www.keystonecerts.com) web address:



Phillip Kassir, PE  
 Validations Manager

**Appendix A**

Figure 1

**Panel Profile**

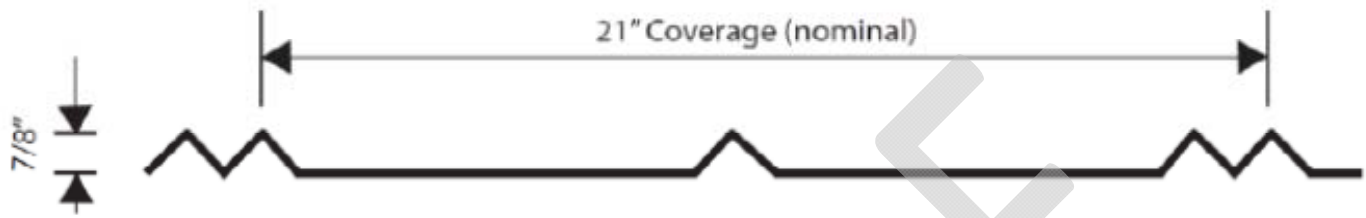


Figure 2

**Anchorage Detail A**

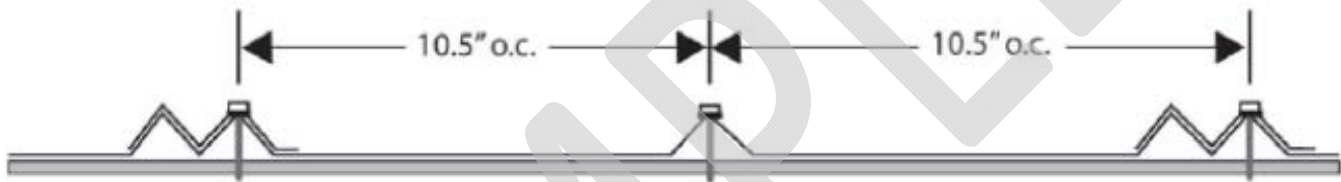


Figure 2

**Anchorage Detail B**

