

Metal Roof Certification & Listing Program

Guide to Understanding Evaluation Reports



Metal Roof Certification & Listing Program

Evaluation Report

KCI-99999-999

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Etters, PA 17319
www.keystonecerts.com

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3 Construction Specifications Institute (CSI) Category:
Division: 07 00 00 – Thermal & Moisture Protection
Section: 07 41 13 – Metal Roof Panels

4 1. Program Licensee:
ABC Roofing, Inc.
580 West Main Street
Anytown, AL 45106
505-555-5555
www.abcroofing.com
eng@abcroofing.com

5 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.

6 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

7 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 A250 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.

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8 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.

9 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 ICC-ES AC166, *Acceptance Criteria for Metal Roof Coverings*.

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*, as modified by ICC AC166.

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.

10 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.

11 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
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12 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 web address:

keystonecerts.com
KCI-99999-999

13 Steve Ulrich, P. E.
Validations Manager

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- 1 Evaluation Report Info:** each report is uniquely identified by report number with the dates of issuance, revision & expiration.
- 2 QR Code:** Keystone Evaluation Reports are easily linked to labeling, marketing or other technical documentation for retrieval via smartphone or internet.
- 3 CSI Division Number:** specifies the product type as designated by the Construction Specification Institute's Masterformat system.
- 4 Program Licensee:** the corporate name of the report holder, which may include a single manufacturer or association of multiple manufacturers producing the identical product, each such manufacturer is named in Section 7 *Licensed Manufacturing Facilities*, and is subject to Keystone periodic inspection.
- 5 Certified Roof Covering:** a brief description of the certified roof covering product and the evaluated roof system design.
- 6 Scope of Certification:** Lists the building codes and revision years for which the roof system has been evaluated for conformance, and the relevant properties evaluated.
- 7 Evaluated Roof System Description:** A concise description of the certified roof covering material, profile/dimensions, and coating specifications, as well as the evaluated roof deck, anchorage, underlayment and flashing with applicable code section references.
- 8 Installation:** includes general and specific referenced code requirements. Digital versions include hyperlinks to the Manufacturers Installation Instructions to help the inspector ensure the roof covering is installed as qualified and in accordance with referenced code requirements.
- 9 Performance and Limitations of Use:** describes the performance characteristics and limitations of the subject roof system as required by the ICC AC166, *Acceptance Criteria for Metal Roof Coverings* and the referenced building codes.
- 10 Conditions of Use:** describes any special considerations based on the roof covering type.
- 11 Licensed Manufacturing Facilities:** lists the facilities that are qualified to produce the subject roof covering, based on Keystone Metal Roof Certification & Listing Program licensure. Each listed facility is subject to strict quality management system requirements and conformance is verified by periodic inspection.
- 12 Identification:** specifies how the metal roof coverings qualified by the Report are identified, for inspector verification.
- 13** The signature of the Keystone staff licensed professional engineer responsible for the evaluation.