

UL Evaluation Report

UL ER15072-01

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UL Category Code: ULFD

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DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Sub-level 2: 07 70 00 – Roof and Wall Specialties and Accessories
Sub-level 3: 07 72 00 – Roof Accessories
Sub-level 4: 07 72 26 – Ridge Vents

COMPANY:

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1. SUBJECT: Ridge Vents

COBRA® RIGID VENT 3™, COBRA® SNOW COUNTRY™, COBRA® SNOW COUNTRY
ADVANCED™, COBRA® RIDGE RUNNER®, COBRA® EXHAUST VENT FOR ROOF RIDGE – HAND
NAIL, COBRA® EXHAUST VENT FOR ROOF RIDGE – NAIL GUNABLE

2. SCOPE OF EVALUATION

- 2015, 2012, 2009, and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009, and 2006 *International Residential Code*® (IRC)
- ICC-ES Acceptance Criteria for Attic Vents (AC132), Dated February 2010 (Editorially revised May 2016)
- ICC-ES Acceptance Criteria for Quality Documentation (AC10), Dated June 2014



The products were evaluated for the following properties:

- Net-free Ventilation Area (AC132, Section 4.1)
- Rate of Burning (ASTM D635)
- Ignition Properties (ASTM D1929)
- Dust Exposure (AC132, Section 4.2)
- Temperature Cycling (AC132, Section 4.3)
- Weathering Test, (ASTM D4329)
- Wind Driven Rain (FBC (HVHZ) TAS 100(A))

3. REFERENCED DOCUMENTS

- ICC-ES Acceptance Criteria for Attic Vents (AC132), dated February 2010 (editorially revised May 2016)
- ICC-ES Acceptance Criteria for Quality Documentation (AC10), dated June 2014
- ASTM D635-13, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of plastics in a Horizontal Position
- ASTM D1929-12, Test Method for Determining Ignition Properties of Plastics
- ASTM D4329-13, Standard Practice for Florescent Ultraviolet (UV) Lamp Apparatus Exposure of Plastics
- Florida Building Code (High Velocity Hurricane Zones) Test Application Standard TAS 100(A)-95

4. USES

The Cobra® Ridge Vent 3™, Cobra® Snow Country™, Cobra® Snow Country Advanced™, Cobra® Ridge Runner®, Cobra® Exhaust Vent for Roof Ridge – Hand Nail and Cobra® Exhaust Vent for Roof Ridge – Nail Gunable are ridge vents for use in conjunction with eave, cornice, and soffit vents to provide natural ventilation of enclosed attic and rafter spaces in accordance with Section 1203.2 of the 2015, 2012, 2009 and 2006 IBC or Section R806 of the 2015, 2012, 2009 and 2006 IRC. These vents are intended for use with asphalt shingles.

5. PRODUCT DESCRIPTION

5.1 General:

- 5.1.1 **Cobra® Rigid Vent 3™** is nominally 11-1/2 in. or 13-3/4 in. wide by 48 in. long without a filter media having a 9 in. or 11-1/2 in. width ridge cap area and supplied with 3-inch ring shank roofing nails for installation.
- 5.1.2 **Cobra® Snow Country™** is nominally 13-3/4 in. wide by 48 in. long with a fiberglass filter media affixed to the vent.
- 5.1.3 **Cobra® Snow Country Advanced™** is nominally 11-1/2 in. or 13-3/4 in. wide by 48 in. long with a fiberglass filter media affixed to the vent having a 9 in. or 11-1/2 in. width ridge cap area supplied with 3-inch ring shank roofing nails for installation.
- 5.1.3 **Cobra® Ridge Runner®** is nominally 11.-5 in. wide by 20 feet long roll and available with or without a fiberglass filter media supplied with 1-3/4 in. coil nails.
- 5.1.4 **Cobra® Exhaust Vent for Roof Ridge – Hand Nail** is nominally 3/4 in. thick by 10-1/2 in., or 11-3/4 in. wide by 20 feet or 50 feet long roll and supplied with Smart Nails™ for hand-nailing.
- 5.1.5 **Cobra® Exhaust Vent for Roof Ridge – Nail Gunable** is nominally 5/8 in. thick by 10-1/2 in. wide by 20 feet or 50 feet long and supplied with 1-3/4 in. coil nails for nail guns.

NET FREE VENTILATION AREA (NFVA)

Product	in. ² /ft
Cobra® Rigid Vent 3™	18.0
Cobra® Snow Country™	18.0
Cobra® Snow Country Advanced™	18.0
Cobra® Ridge Runner®	12.5
Cobra® Exhaust Vent for Roof Ridge - Hand Nail	14.7
Cobra® Exhaust Vent for Roof Ridge - Nail Gunable	12.3

5.2 Material:

The Cobra® Rigid Vent 3™, Cobra® Snow Country™, Cobra® Snow Country Advanced™, and Cobra® Ridge Runner® are constructed of injection molded polypropylene classified as Class CC2 plastic under Section 2606.4 of the 2015, 2012, 2009 and 2006 IBC.

The Cobra® Exhaust Vent for Roof Ridge – Hand Nail and Cobra® Exhaust Vent for Roof Ridge – Nail Gunable are constructed of polyester fibers classified as Class CC1 plastic under Section 2606.4 of the 2015, 2012, 2009 and 2006 IBC.

6. INSTALLATION

6.1 Design:

The required ventilation area must be determined and sufficient ridge vent panels must be installed to provide ventilation in accordance with Section 1203.2 of the 2015, 2012, 2009 and 2006 IBC or Section R806 of the 2015, 2012, 2009 and 2006 IRC. Product packaging shall be marked with venting area the product provides when installed in accordance with the manufacturer's installation instructions.

6.2 Wind Resistance:

The ridge vents are limited to be installed under the 2015 and 2012 IBC in areas subject to a maximum ultimate design wind speed of 130 mph (209 km/hr) on structures having a mean roof height of 40 feet (12.2 m) or less in Exposure B areas. Under the 2009 and 2006 IBC, 2015, 2012, 2009 and 2006 IRC, the ridge vents are limited to be installed in areas subject to a maximum basic wind speed of 100 mph (160 km/h), on structures having a maximum mean roof height of 40 feet (12.2 m) or less in Exposure D areas.

6.3 Installation:

The ridge vents shall be installed in accordance with the applicable code, this report and the manufacturer's published installation instructions.

The manufacturer's published installation instructions shall be available at all times on the jobsite during installation.

6.3.1 Cobra® Rigid Vent 3™, Cobra® Snow Country™, and Cobra® Snow Country Advanced™:

The roof slope must be a minimum of 3:12 (25 percent slope) and a maximum 16:12 (133 percent slope).

Cobra® Rigid Vent 3™, Cobra® Snow Country™, and Cobra® Snow Country Advanced™ must be installed in accordance with the manufacturer's detailed installation instructions, published by GAF available at:

[\(GAF Cobra® Ridge Vents Application Instructions Link, Updated 7/07\)](#)

6.3.2 Cobra® Ridge Runner®:

The roof slope must be a minimum of 3:12 (25 percent slope) and a maximum 16:12 (133 percent slope).

Cobra® Ridge Runner® must be installed in accordance with the manufacturer's detailed installation instructions, published by GAF available at:

[\(GAF Cobra® Ridge Runner® Ridge Vent Application Instructions Link, Updated 6/09\)](#)

6.3.3 Cobra® Exhaust Vent for Roof Ridge – Hand Nail and Cobra® Exhaust Vent for Roof Ridge – Nail Gunable:

The roof slope must be a minimum of 2:12 (17 percent slope) and a maximum 20:12 (166 percent slope).

Cobra® Exhaust Vent must be installed in accordance with the manufacturer's detailed installation instructions, published by GAF available at:

[\(Cobra® Exhaust Vent for Roof Ridge - Instruction for Hand Nail Application Link, Updated 6/12\)](#)

[\(Cobra® Exhaust Vent for Roof Ridge - Instruction for Nail Gun Application Link, Updated 6/12\)](#)

6.4 Fire Classified Roof Covering:

The ridge vents are allowed to be installed with Listed (classified) asphalt shingle roof coverings provided the following conditions are met:

1. The ridge vents must not be installed on roofs that are required to have a fire resistance rating unless the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 of the 2015, 2012, 2009 and 2006 IBC.
2. The maximum area of a continuous ridge vent is 300 square feet (27.9 m²) and the aggregate area of the vents and any light transmitting roof panels does not exceed 30 percent of the floor area served.
3. Individual attic vents must be separated from each other and any light transmitting roof panels by a distance of not less than 4 feet (1220 mm) measured in a horizontal plane, unless the building is equipped throughout with automatic sprinkler system in accordance with Section 903.3.1.1 of the 2015, 2012, 2009 and 2006 IBC.
4. The ridge vents must be not be installed within 6 feet (1830 mm) of any exterior wall required by Section 705.8 of the 2015, 2012, and 2009 IBC (Section 704.8 of the 2006 IBC) to have protected wall openings.

7. CONDITIONS OF USE

The ridge vents described in this Report comply with, or are suitable alternatives to, what is specified in those codes listed in Section 2 of this Report, subject to the following conditions:

- 7.1 Materials and methods of installation shall comply with this Report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available on the jobsite at all times during construction. In the event of a conflict between the installation instructions and this Report, this Report governs.
- 7.2 The ridge vents are limited to installation on roofs having a minimum and a maximum slopes specified in Section 6.3 of this report.
- 7.3 The minimum ventilation area and required percentage of area between eave or cornice vents and the opening provided by the ridge vent required for concealed spaces must be calculated in accordance with the applicable code and submitted to the code official for approval.
- 7.4 The ridge vents are limited to installation with non-classified asphalt shingle roof coverings unless installed in accordance with Section 6.4.
- 7.5 The use of ridge vents are not permitted in Group H, I-2, and I-3 occupancies.
- 7.6 Where roof diaphragm continuity is affected by the installation of ridge vents, roof diaphragm nailing requirements must be addressed in accordance with applicable code, and the vent installation must be approved by the code official.
- 7.7 The products are manufactured by GAF under the UL LLC Classification and Follow-Up Service Program, which includes audits in accordance with quality elements of ICC-ES Acceptance Criteria for Quality Documentation, AC10.

8. SUPPORTING EVIDENCE

- 8.1 Data in accordance with ICC-ES Acceptance Criteria for Attic Vents (AC132), Dated February 2010 (Editorially revised December 2013).
- 8.2 UL Classification Reports in accordance with UL Subject 2582, Outline of Investigation for Hip and Ridge Vents. See UL Product Certification Category, [\(TGEW\)](#).
- 8.3 Manufacturer's descriptive product literature, including installation instructions.
- 8.4 Quality Documentation in accordance with ICC-ES Acceptance Criteria for Quality Documentation, AC10.

9. IDENTIFICATION

The ridge vents described in this Evaluation Report are identified by a marking bearing the report holder's name (GAF), the product name, the UL Classification Mark and the evaluation report number UL ER15072-01. The validity of this Evaluation Report is contingent upon this identification appearing on the product or the product packaging.

10. USE OF UL EVALUATION REPORT

- 10.1 The approval of building products, materials or systems is under the responsibility of the applicable authorities having jurisdiction.
- 10.2 UL Evaluation Reports shall not be used in any manner that implies an endorsement of the product, material or system by UL.
- 10.3 The current status of this report, as well as a complete directory of UL Evaluation Reports may be found at UL.com via our On-Line Certifications Directory:

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