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# ICC-ES Evaluation Report

# ESR-1265

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Reissued 01/2018  
This report is subject to renewal 01/2019.

**DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION**  
**SECTION: 07 72 26—RIDGE VENTS**

**REPORT HOLDER:**

**GAF**

**1 CAMPUS DRIVE**  
**PARSIPPANY, NEW JERSEY 07054**

**EVALUATION SUBJECT:**

**COBRA® EXHAUST VENT™, COBRA® RIGID VENT 3™, COBRA® RIGID VENT 3™ 9",**  
**COBRA® SNOW COUNTRY™, COBRA® SNOW COUNTRY ADVANCED™, COBRA®**  
**SNOW COUNTRY ADVANCED™ 9", COBRA® RIDGE RUNNER™ AND TRUSLATE®**  
**RIDGE VENT**



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**DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION**  
**Section: 07 72 26—Ridge Vents**

**REPORT HOLDER:**

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[www.gaf.com](http://www.gaf.com)

**EVALUATION SUBJECT:**

**COBRA® EXHAUST VENT, COBRA® RIGID VENT 3™, COBRA® RIGID VENT 3™ 9", COBRA® SNOW COUNTRY™, COBRA® SNOW COUNTRY ADVANCED™, COBRA® SNOW COUNTRY ADVANCED™ 9", COBRA® RIDGE RUNNER™ AND TRUSLATE® RIDGE VENT**

**1.0 EVALUATION SCOPE**

**Compliance with the following codes:**

- 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)<sup>†</sup>

<sup>†</sup>The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

**Properties evaluated:**

- Ventilation of attic spaces
- Weather resistance
- Wind resistance

**2.0 USES**

Cobra® Exhaust Vent, Cobra® Rigid Vent 3™, Cobra® Rigid Vent 3™ 9", Cobra® Snow Country™, Cobra® Snow Country Advanced™, Cobra® Snow Country Advanced™ 9" and Cobra® Ridge Runner™ are intended to be installed, in conjunction with eave, cornice or soffit vents, for the purpose of providing natural ventilation of enclosed attic and rafter spaces. These vents are intended for use with asphalt roof shingles.

TruSlate® Ridge Vent is intended to be installed, in conjunction with eave, cornice or soffit vents, for the purpose of providing natural ventilation of enclosed attic and rafter spaces. TruSlate® Ridge Vent is intended for use with slate roofing tiles.

**3.0 DESCRIPTION**

**3.1 Cobra® Exhaust Vent:**

The ridge vent material is a flexible, single-layer, three-dimensional black matting which is manufactured from a nonwoven polyester fiber material, with no backing or fabric covering. The material has a nominal thickness of 3/4 inch and a nominal weight of 4.9 ounces per foot, and is manufactured in rolls measuring 8 or 10.5 inches (203 or 267 mm) wide by 20 or 50 feet (6.1 or 15.2 m) long, or 11.75 inches (298 mm) wide by 20 feet (6.1 m) long. The net free ventilation area (NFVA) of the vent, when installation with a 3/4-inch-high (19.1 mm) opening, is 14.82 square inches per lineal foot (31 369 mm<sup>2</sup>/m).

**3.2 Cobra® Rigid Vent 3™:**

The ridge vent material is composed of 0.065-inch-thick (1.65 mm) polypropylene plastic with molded ventilation openings along the length of both long edges. The vent does not incorporate a filter material. The vent has a nominal thickness of 7/8 inch and is manufactured in strips measuring 14 1/8 inches (359 mm) wide by 48 inches (1219 mm) long. The NFVA of the vent is 18.1 square inches per lineal foot (38 312 mm<sup>2</sup>/m). The ridge vent is packaged with 3-inch ring shank roofing nails for installation.

**3.3 Cobra® Rigid Vent 3™ 9":**

The Cobra® Rigid Vent 3™ 9" is identical to the Cobra® Rigid Vent 3™, except that it has a 9-inch-wide (229 mm) top panel [11.5 inches (292 mm) overall]. The ridge vent is also packaged with 3-inch ring shank roofing nails for installation.

**3.4 Cobra® Snow Country™:**

The ridge vent material is composed of 0.065-inch-thick (1.65 mm) polypropylene plastic with molded ventilation openings along the length of both long edges. The vent incorporates a nonwoven fiberglass filter material that is approximately 10 inches (254 mm) wide. The vent has a nominal thickness of 7/8 inch and is manufactured in strips measuring 14 1/8 inches (359 mm) wide by 48 inches (1219 mm) long. The NFVA of the vent is 16.3 square inches per lineal foot (34 502 mm<sup>2</sup>/m).

**3.5 Cobra® Snow Country Advanced™ and Cobra® Snow Country Advanced™ 9":**

The Cobra® Snow Country Advanced™ is identical to the Cobra® Snow Country™, except that it is packaged with roofing nails for installation. The Cobra® Snow Country Advanced™ 9" is identical to the Cobra® Snow Country™, except that it has a 9-inch-wide (229 mm) top panel [11.5 inches (292 mm) overall]. Both vents are packaged with 3-inch ring shank roofing nails for installation.

### 3.6 Cobra® Ridge Runner™:

The ridge vent material is composed of 0.065-inch-thick (1.65 mm) polypropylene plastic with molded ventilation openings along the length of both long edges. The vent incorporates a nonwoven polymeric filter material that is approximately 11.5 inches (292 mm) wide. The vent has a nominal thickness of  $\frac{5}{8}$  inch and is manufactured in rolls measuring approximately  $13\frac{1}{2}$  inches (343 mm) wide by 20 feet (6096 mm) long. The NFVA of the vent is 12.84 square inches per lineal foot (27 178 mm<sup>2</sup>/m).

### 3.7 TruSlate® Ridge Vent:

The ridge vent material is composed of 0.065-inch-thick (1.65 mm) polypropylene plastic with molded ventilation openings along the length on both edges. The vent incorporates a nonwoven fiberglass filter material that is approximately 6 inches (152 mm) wide. The vent has a nominal thickness of 2.2 inches and is manufactured in strips measuring 11.4 inches (290 mm) wide by 48 inches (1219 mm) long. The NFVA of the vent is 10.4 square inches per lineal foot (22 056 mm<sup>2</sup>/m).

## 4.0 INSTALLATION

### 4.1 General:

Installation of the ridge vents described in this report must comply with this report, the manufacturer's published installation instructions and the requirements of the applicable code. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

### 4.2 Cobra® Exhaust Vent:

The roof slope must be 2 units vertical in 12 units horizontal (2:12) (17 percent) or greater and must not exceed 20:12 (166 percent).

On roofs with no ridge board, the minimum nominal width of the opening, measured horizontally, must be 1 inch on each side of the roof ridge. On roofs with a ridge board, the slot must be 1 inch (25 mm) wide on each side of the ridge board. The last 6 inches (152 mm) of sheathing, inside the exterior wall line at each end of the ridge, must be left uncut. The ridge vent must be placed over the roof shingles and positioned to completely cover the opening. Shorter lengths of roof vent material are joined by butting the ends together, with no gaps between sections.

### 4.3 Cobra® Rigid Vent 3™, Cobra® Rigid Vent 3™ 9", Cobra® Snow Country™, Cobra® Snow Country Advanced™, Cobra® Snow Country Advanced™ 9" and Cobra® Ridge Runner™:

The roof slope must be 3 units vertical in 12 units horizontal (3:12) (25 percent) or greater and must not exceed 16:12 (133 percent).

On roofs with no ridge board, the minimum nominal width of the opening, measured horizontally, must be  $\frac{7}{8}$  inch on each side of the roof ridge. On roofs with a ridge board, the slot must be  $\frac{7}{8}$  inch (22 mm) wide on each side of the ridge board. The last 6 inches (152 mm) of sheathing, inside the exterior wall line at each end of the ridge, must be left uncut. The ridge vent must be placed over the roof shingles and positioned to completely cover the opening. Shorter lengths of roof vent material are joined by butting the ends together, with no gaps between sections.

### 4.4 TruSlate® Ridge Vent:

The roof slope must be five units vertical in 12 units horizontal (5:12) (41.7 percent) or greater and must not exceed 24:12 (200 percent).

On roofs with no ridge board, the minimum horizontal width of the opening, measured horizontally, must be  $\frac{7}{8}$  inch (22 mm) on each side of the roof ridge. On roofs with a ridge board, the slot must be a minimum of  $1\frac{5}{8}$  inches (41 mm) wide on each side of the ridge board. The last 6 inches (152 mm) of sheathing, inside the exterior wall line at each end of the ridge, must be left uncut.

The ridge vent must be placed over the self-adhered leak barrier and positioned to completely cover the opening. The top course of field slates must be placed adjacent to the ridge vent after the ridge vent has been installed. Shorter lengths of roof vent material are joined by butting the ends together, with no gaps between sections.

### 4.5 Ridge Shingles:

The Cobra® Exhaust Vent, Cobra® Rigid Vent 3™, Cobra® Rigid Vent 3™ 9", Cobra® Snow Country™, Cobra® Snow Country Advanced™, Cobra® Snow Country Advanced™ 9" and Cobra® Ridge Runner™ ridge vent material must be completely covered by the ridge shingles. Ridge shingles are nailed in place with minimum 2-inch-long (51 mm), corrosion-resistant roofing nails. The nails must be installed on each side of the vent at spacings as set forth in the ridge vent manufacturer's installation instructions, or closer where required by the ridge shingle manufacturer, with a minimum of two nails per ridge shingle. Overlap of the ridge shingles must be in accordance with the roof covering manufacturer's instructions. The ridge shingles must be installed so that a clear space equal to the thickness of the ridge vent remains between the underside of the ridge shingles and the top surface of the roof shingles.

### 4.6 Ridge Slates:

The TruSlate® Ridge Vent material must be completely covered by ridge slates. Ridge slates are nailed or screwed in place with minimum  $2\frac{1}{2}$ -inch-long (63 mm) copper or stainless steel roofing nails or coated screws. These fasteners must be installed on each side of the vent at spacings set forth in the ridge slate manufacturer's installation instructions, with a minimum of two fasteners per tile. Overlap of the ridge slate must be in accordance with the ridge slate manufacturer's instructions. Ridge slates must be installed so that the slate overhangs the edge of the ridge vent by at least  $\frac{3}{4}$  inch (19 mm).

### 4.7 Wind Resistance:

Under the 2012 IBC, when installation is in accordance with this report, the ridge vents are limited to use 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 D areas. Under the 2009 and 2006 IBC, 2012 IRC, 2009 IRC and 2006 IRC, when installation is in accordance with this report, the ridge vents are limited to use in areas subject to a maximum basic wind speed of 100 mph (161 km/hr) on structures having a mean roof height of 40 feet (12.2 m) or less in Exposure D areas.

## 5.0 CONDITIONS OF USE

The GAF ridge vents described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

**5.1** The vents are manufactured, identified and installed in accordance with this report, the manufacturer's published installation instructions, and the applicable code. In the event of conflict between this report and

the manufacturer's published installation instructions, this report governs.

- 5.2 Installation is limited to roofs with the minimum and maximum slopes specified in Section 4.0 of this report.
- 5.3 The minimum ventilation area and required percentage of area between eave or cornice vents and the opening provided by the ridge vent required for the concealed spaces, must be calculated in accordance with the requirements of the applicable code.
- 5.4 The roof diaphragm nailing requirements must be addressed and the vent installation approved by the code official.
- 5.5 The ridge vents must be covered with roof shingles or slates that comply with the requirements of the applicable code.

- 5.6 The ridge vents are limited to use where nonclassified roof coverings are permitted.

#### **6.0 EVIDENCE SUBMITTED**

Data in accordance with the ICC-ES Acceptance Criteria for Attic Vents (AC132), dated February 2010 (editorially revised May 2016).

#### **7.0 IDENTIFICATION**

Cartons or packages of the ridge vents described in this report must bear the GAF name and address, the product name, the size, and the evaluation report number (ESR-1265), and must contain the installation instructions.