

ES Report
Cobra® Ridge Vents
ES-1265

Product Evaluation

Updated: 2/08



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DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07720—Roof Accessories

REPORT HOLDER:

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EVALUATION SUBJECT:

COBRA® EXHAUST VENT™, COBRA® RIGID VENT 3™, COBRA® RIGID VENT 2™, COBRA® SNOW COUNTRY™, COBRA® SNOW COUNTRY ADVANCED™, COBRA® RIDGE RUNNER™ 11", COBRA® RIDGE RUNNER™ 7", FSNN SHINGLE OVER RIDGE VENT AND SONN SHINGLE OVER RIDGE VENT

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

Properties evaluated:

- Ventilation of attic spaces
- Weather resistance
- Wind resistance

2.0 USES

Cobra® Exhaust Vent™, Cobra® Rigid Vent 3™, Cobra® Rigid Vent 2™, Cobra® Snow Country™, Cobra® Snow Country Advanced™, Cobra® Ridge Runner™ 11", Cobra® Ridge Runner™ 7", FSNN Shingle Over Ridge Vent and SONN Shingle Over Ridge Vent 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. All of the vents are intended for use with asphalt roof shingles.

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 $\frac{3}{4}$ inch (19.1 mm) and a nominal weight of 4.9 ounces per foot (455.7 g/m), and is manufactured in rolls measuring 10.5 inches (267 mm) wide by 20 or 50 feet (6096 or 15240 mm) long. The net free ventilation area (NFVA) of the vent, when installed with a

$\frac{3}{4}$ -inch-high (19.1 mm) opening, is 14.82 square inches per lineal foot (31 369 mm²/m).

3.2 Cobra® Rigid Vent 2™:

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 $\frac{7}{8}$ inch (22.2 mm) and is manufactured in strips measuring approximately $14\frac{1}{8}$ 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 mm²/m).

3.3 Cobra® Rigid Vent 3™:

The ridge vent is identical to the Cobra® Rigid Vent II™, except that it is packaged with 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 polymeric filter material that is approximately 10 inches (254 mm) wide. The vent has a nominal thickness of $\frac{7}{8}$ inch (22.2 mm) and is manufactured in strips measuring approximately $14\frac{1}{8}$ 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 mm²/m).

3.5 Cobra® Snow Country Advanced™:

The ridge vent is identical to the Cobra® Snow Country™, except that it is packaged with roofing nails for installation.

3.6 Cobra® Ridge Runner™ 11" and Cobra® Ridge Runner™ 7":

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 10 inches (254 mm) wide. The vent has a nominal thickness of $\frac{3}{4}$ inch (19.1 mm) and is manufactured in strips measuring approximately $13\frac{1}{2}$ inches (343 mm) wide by 48 inches (1219 mm) long. The NFVA of the vent is 10.9 square inches per lineal foot (23 072 mm²/m).

3.7 FSNN Shingle Over 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 of both long edges. The vent incorporates a nonwoven polymeric filter material that is approximately 10 inches (254 mm) wide. The vent has a nominal thickness of $\frac{7}{8}$ inch (22.2 mm) and is manufactured in strips measuring approximately $14\frac{1}{8}$ inches (359 mm) wide by 48 inches (1219 mm) long. The NFVA of the vent is 18.5 square inches per lineal foot (39 158 mm²/m).

3.8 SONN Shingle Over Ridge Vent:

The ridge vent is similar to the FSNN Shingle Over Ridge Vent, except that it does not incorporate a filter.

4.0 INSTALLATION

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.

The roof slope must be 3 units vertical in 12 units horizontal (3:12) (25 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 (25 mm) 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.

The 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. The ridge vents, installed as described in this section, may be installed in areas where the maximum basic wind speed (3-second gust) is 80 miles per hour (129 km/h), on structures a maximum of 40 feet (12192 mm) in height, in Exposure C or D.

5.0 CONDITIONS OF USE

The GAF Materials Corporation 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 vent must be covered with roof shingles that comply with the requirements of the applicable code. The ridge vent is 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 January 2001 (editorially revised December 2007).

7.0 IDENTIFICATION

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