

## Product Evaluation

RV29 | 0820

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

**Evaluation ID:** RV-29

**Effective Date:** August 1, 2020

**Re-evaluation Date:** August 2024

**Product Name:** Cobra® Rigid Vent 3™ Exhaust Vent for Roof Ridge, Cobra® Snow Country Advanced™ Exhaust Vent for Roof Ridge, Cobra® Snow Country™ Exhaust Vent for Roof Ridge, Cobra® RidgeRunner® Exhaust Vent for Roof Ridge, and TruSlate® Ridge Vent

**Manufacturer:** GAF  
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Parsippany, NJ 07054  
(800) 766-3411

### General Description:

Product Name	Description	Filtered	Design Pressure Rating
Cobra® Rigid Vent 3™ Exhaust Vent for Roof Ridge	4' Shingle Over Ridge Vent	No	-430 psf
Cobra® Rigid Vent 3™ 9" width Exhaust Vent for Roof Ridge	4' Shingle Over Ridge Vent	No	-430 psf

**General Description (continued):**

<b>Product Name</b>	<b>Description</b>	<b>Filtered</b>	<b>Design Pressure Rating</b>
Cobra® Snow Country Advanced™ Exhaust Vent for Roof Ridge	4' Shingle Over Ridge Vent	Yes	-430 psf
Cobra® Snow Country Advanced™ 9" width Exhaust Vent for Roof Ridge	4' Shingle Over Ridge Vent	Yes	-430 psf
Cobra® Snow Country™ Exhaust Vent for Roof Ridge	4' Shingle Over Ridge Vent	Yes	-430 psf
Cobra® RidgeRunner® Exhaust Vent for Roof Ridge	Gun-Nailable Shingle Over Ridge Vent 20' Roll	Yes	-360 psf
TruSlate® Ridge Vent	11.4" x 4' Ridge Vent under TruSlate® Trim Slates in the TruSlate® Premium Roof System	Yes	-380 psf

**Installation:**

**Cobra® Rigid Vent 3 Exhaust Vent for Roof Ridge (unfiltered), Cobra® Snow Country Advanced™ Exhaust Vent for Roof Ridge (filtered), and Cobra® Snow Country™ Exhaust Vent for Roof Ridge (filtered)** are under-the-shingle ridge ventilators for providing natural ventilation of enclosed attic spaces as specified in the IRC and the IBC. The ridge vents for 12" width ridge caps are nominally 4' in length and are 13-11/16" wide by 7/8" thick. The 9" width Cobra® Rigid Vent 3™ and Cobra® Snow Country Advanced™ ridge vents for 10" width ridge caps are nominally 4' in length and are 11-5/16" wide by 7/8" thick. The 4' long vents have segmented exterior baffles to allow full airflow. The openings in the vent provide 18 sq. in. of net free area (NFA) per linear foot of vent. These ridge vents come with an integral tear feature called EasyTear™, which allows tool-free termination of the ridge vent to the desired final length required. The Cobra® Rigid Vent 3™ Exhaust Vent for Roof Ridge (unfiltered) and Cobra® Snow Country Advanced™ Exhaust Vent for Roof Ridge (filtered) for 12" width ridge caps include a total of twenty-six (26), 3" long x 0.128" diameter shank x 0.360" diameter head hot-dip galvanized ring shank-roofing nails. The Cobra® Rigid Vent 3™ 9" width Exhaust Vent for Roof Ridge and Cobra® Snow Country Advanced™ 9" width Exhaust Vent for Roof Ridge include a total of twenty-seven (27), 3" long x 0.128" diameter shank x 0.360" diameter hot dipped galvanized ring shank nails. Cobra® Snow Country™ Exhaust Vent for Roof Ridge does not include these nails. Use the nails to secure the vent to the roof decking and to secure ridge cap shingles over the vent. The filtered vents use a non-woven fibrous material that is heat bonded to the underside of the vent. The manufacturer will supply their installation instructions on the vent's box. The instructions must be available at all times on the jobsite during installation.

**Cobra® RidgeRunner® Exhaust Vent for Roof Ridge (filtered)** is an under-the-shingle ridge ventilator for providing natural ventilation of enclosed attic spaces as specified in the IRC and the

IBC. The ridge vent is 13-1/2" wide by 5/8" thick and comes in 20' roll lengths. The 20' long vent is low profile and allows the use of a nail gun. It retains an exterior baffle to allow full airflow. Structural ribs extending from the vent underside to the baffle at 1-1/2" intervals provide support along the entire length of the vent. Customize to the desired length by using the seams located at 1' intervals. Due to the unique double wall feature, the vent requires no end plugs. Each ridge vent roll comes with two coils of 1-3/4" long x 0.119" diameter shank x 0.343" diameter head hot-dip galvanized smooth shank roofing nails. Use the nails to secure the vent to the roof decking and to secure ridge cap shingles over the vent. The vent uses a non-woven fibrous material that is heat bonded to the underside of the vent. The manufacturer supplies installation instructions on the vent's box. The instructions must be available at all times on the jobsite during installation.

**TruSlate® Ridge Vent (filtered)** is a plastic, low profile, attic ridge vent specifically designed for use in the TruSlate® Premium Roofing System for providing natural ventilation of enclosed attic spaces as specified in the IRC and the IBC. The ridge vent measures 11.4" wide and the manufacturer supplies it in 48" sections. Install TruSlate® Ridge Vent under TruSlate® trim slates. Use nails to secure the vent to the roof deck. Use screws to secure the TruSlate® trim slates through pre-drilled holes in the TrimSlate through the ridge vent and through the roof deck. The vent uses a non-woven fibrous material that is heat bonded to the underside of the vent. The manufacturer supplies installation instructions in the vent's box. The instructions must be available at all times on the jobsite during installation.

#### **Limitations:**

#### **Cobra® Rigid Vent 3™ Exhaust Vent for Roof Ridge, Cobra® Snow Country Advanced™ Exhaust Vent for Roof Ridge, and Cobra® Snow Country™ Exhaust Vent for Roof Ridge:**

**Roof Deck:** The roof deck must consist of minimum 7/16" thick wood structural panels (plywood or OSB) or nominal 1" thick Southern Yellow Pine board lumber.

Install the ridge vents on roofs with a minimum slope of 3:12, up to a maximum slope of 16:12. The ridge vent provides 18 sq. in. of net free area (NFA) per linear foot installed. Install with eave, cornice, or soffit vents that supply equal or greater amounts of NFA per linear foot. The maximum air slot opening is 3-1/4" using ridge board construction, and the minimum air slot opening is 1-3/4". Do not install on hips.

#### **Cobra® RidgeRunner® Exhaust Vent for Roof Ridge:**

**Roof Deck:** The roof deck must consist of minimum 7/16" thick wood structural panels (plywood or OSB) or nominal 1" thick Southern Yellow Pine board lumber.

Install the ridge vents on roofs with a minimum slope of 3:12, up to a maximum slope of 16:12. The ridge vent provides 12.5 sq. in. of net free area (NFA) per linear foot installed. Install with eave, cornice, or soffit vents that supply equal or greater amounts of NFA per linear foot. The maximum air slot opening is 3-1/4" using ridge board construction, and the minimum air slot opening is 1-3/4". Do not install on hips.

**TruSlate® Ridge Vent:**

**Roof Deck:** The roof deck must consist of minimum 7/16" thick wood structural panels (plywood or OSB) or nominal 1" thick Southern Yellow Pine board lumber.

Install the ridge vent on roofs with a minimum slope of 4:12, up to a maximum slope of 16:12. Install TruSlate® Ridge Vent before the field slates. Use the TruSlate® Ridge Vent as the only exhaust vent for the vented attic space and do not use with gable end louvers, turbines, roof vents, or power vents. The ridge vent provides 20 sq. in. of net free area (NFA) per linear foot installed. Install with eave, cornice, or soffit vents that supply equal or greater amounts of NFA per linear foot. The maximum air slot opening is 3-1/4" using ridge board construction, and the minimum air slot opening is 1-5/8". When venting vaulted and cathedral ceilings, ventilate each joist/rafter cavity on both ends and have at least 2" clearance. Do not install on hips.

**Installation:**

**General:** Cover the ridge vents with asphalt roof shingles (or TruSlate Trim Slates on TruSlate Ridge Vents) that comply with the requirements of the IRC and IBC with Texas Revisions. Installation of the ridge vents must comply with the instructions set forth in the manufacturer's instructions and this product evaluation report.

**Cobra® Rigid Vent 3™ Exhaust Vent for Roof Ridge, Cobra® Snow Country Advanced™ Exhaust Vent for Roof Ridge, and Cobra® Snow Country™ Exhaust Vent for Roof Ridge:**

**Fasteners:** Attach the ridge vent to the deck using 3" long x 0.128" diameter shank x 0.360" diameter head hot-dipped galvanized ring shank roofing nails. Nail the ridge vent down using 10 of the 3" long nails, one in each molded nail hole. The manufacturer provides additional nails only with Cobra® Rigid Vent 3™ Exhaust Vent for Roof Ridge and Cobra® Snow Country Advanced™ Exhaust Vent for Roof Ridge for the installation of the ridge cap shingles; however, the ridge cap manufacturer's instructions may require more or less. The fasteners must be long enough to penetrate a minimum of 1/4" beyond the underneath side of the roof sheathing or a minimum of 3/4" into the board decking.

Install the ridge vent centered over the air slot to completely cover the air slot and extend a minimum of 6" beyond the end of the air slot opening. The air slots should stop a minimum of 6" before the interior side of exterior end walls and a minimum of 12" before other ridge intersections, for example chimneys, hip joints, roofing places, etc. Consult the manufacturer supplied installation instructions for the guidelines set forth for air slot cutting. If the 4' section of vent is not long enough to cover the entire air slot, additional 4' sections of vent should be added by overlapping the ridge vent using the built-in overlapping feature. When reaching the end of the air slot during installation, use the tear feature of the vent to terminate the length of the ridge vent to the end position desired. Install the ridge cap shingles per the shingle manufacturer's instructions with a minimum of two nails per shingle and a shingle-to-shingle nail spacing of 8" or less.

**Cobra® RidgeRunner® Exhaust Vent for Roof Ridge:**

**Fasteners:** Attach the ridge vent to the deck with minimum 1-3/4" long x 0.119" diameter shank x 0.343" diameter head hot-dip galvanized resistant smooth shank-roofing nails. Use fasteners that are long enough to penetrate a minimum of 1/4" beyond the underneath side of the roof sheathing or a minimum of 3/4" into the board decking. Drive one nail through the vent at each target location as indicated on the top of the vent.

Install the ridge vents centered over the air slot to completely cover the air slot and extend a minimum of 6" beyond the end of the air slot opening. The air slots should stop a minimum of 6" before the interior side of exterior end walls and a minimum of 12" before other ridge intersections, including chimneys, hip joints, roofing places, etc. Consult the manufacturer supplied installation instructions for the guidelines set forth for air slot cutting. If the 20' section of roll vent is not long enough to cover the entire air slot, add 20' sections of vent by overlapping the ridge vent using the built-in overlapping feature. When reaching the end of the air slot during installation, use the tear feature of the vent to terminate the length of the ridge vent to the nearest foot to cover the air slot completely and to extend past the air slot at least 6". Install the ridge cap shingles per the shingle manufacturer's instructions with a minimum of two nails per shingle and a shingle-to-shingle nail spacing of 8" or less.

**TruSlate® Ridge Vent:**

**Fasteners:** Attach the ridge vent to the deck using 3" long x 0.125" smooth shank diameter x 0.315" diameter head corrosion resistant roofing nails through pre-molded nail holes (approximately 24" on center) on the vent. Install TruSlate® trim slates over the TruSlate® Ridge Vent using minimum No. 10 x 2-1/2" long Philips head corrosion resistant screws through the pre-drilled holes (approximately 4" on center), through the ridge vent to engage the wood deck. Use fasteners that are long enough to penetrate a minimum of 1/4" beyond the underneath side of the roof sheathing or a minimum of 3/4" into the board decking.

Install the TruSlate® Ridge Vent before installing the field slates. After determining the total length of ridge vent required for proper ventilation, determine the necessary slot opening. Mark off and cut the slot opening, ensuring the ends of the opening stop at least 6" from any end walls and at least 12" from hip and ridge intersections or chimneys. For roofs without a ridge board, cut a 7/8" opening along the ridge on each side. For roofs with a ridge board, cut a 1-5/8" opening along the ridge on each side. The total maximum slot opening is 3-1/4" wide. Install an 18" wide piece of peel and stick leak barrier, such as Weather Watch® or StormGuard®, from the edge of the ridge slot extending down towards the roof deck on both sides of the slot. Place the TruSlate® Ridge Vent over the ridge slot, "peaked" and centered over the ridge slot with the top panel on each side of the ridge parallel to the roof deck below. Apply the subsequent ridge vent sections over the length of the ridge utilizing male/female connectors on each vent. Cover all exposed nail heads on the vent with silicone caulk. For increased resistance against weather infiltration, cover the joint between vent sections with a 4" wide piece of leak barrier. Install the final section of TruSlate® Ridge Vent at the end of the ridge with the finished end having the pre-molded end cap installed to the outside edge.

For uniform appearance, install the ridge vent over the entire length of the ridge provided the vent extends past the slot opening a minimum of 6". Install the top course of TruSlate® field slates, UnderBlock UV & Moisture Barrier, and TruSlate trim slates in accordance with GAF published installation instructions. Tuck the UnderBlock UV & Moisture Barrier in the top course of field slate under the TruSlate® Ridge Vent for maximum protection against weather infiltration. Install the trim slates with a 10" exposure.

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and IBC.