

# TEXAS DEPARTMENT OF INSURANCE

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## PRODUCT EVALUATION RV-19

Effective December 1, 2005  
Revised March 1, 2006

*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 shall be subject to reevaluation 3 years after the effective date.*

*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.*

**Cobra Ridge Vent and Cobra® Rigid Vent™ II**, as manufactured by

**GAF Materials Corporation**  
**1361 Alps Road**  
**Wayne, NJ 07470**  
**(973) 628-3000**

will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

### PRODUCT DESCRIPTION

**Cobra Ridge Vent** is made from ultra violet ray stable material. It is a single layer non-fabric covered ridge made of modified polyester non-woven, non-wicking, fiber based matting of three-dimensional construction. Cobra Ridge Vents are 10 1/2 inches wide by 3/4 inch thick.

**Cobra® Rigid Vent™ II** is made from ultra violet ray stable material. It is a continuous section made of a high impact co-polymer. Cobra Rigid Vent II is 1 inch in depth by 14.897 inches over all width by 48.365 inches in length.

### LIMITATIONS

**Cobra Ridge Vent:**

**Design Wind Pressure:** -57 psf

**For All Applications:** The minimum roof slope for the venting system is 3:12 the maximum roof slope is 12:12.

**Cobra® Rigid Vent™ II:**

Roof Deck Type	Allowable Design Pressure (psf)
7/16" thick OSB	-67.7
1" thick nominal Pine board	-113.8
1/2" thick plywood	-127.4

## LIMITATIONS (cont.)

**For All Applications:** The minimum roof slope for the venting system is 3:12; the maximum roof slope is 12:12.

## INSTALLATION INSTRUCTIONS

### General Installation Requirements:

All requirements specified in the International Residential Code (IRC) and the International Building Code (IBC) must be satisfied and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

### Installation:

#### Cobra Ridge Vent

**Roof deck:** The roof deck shall consist of wood structural panels with a minimum thickness of  $\frac{15}{32}$  inch.

**Cutting Ridge Slots:** Begin by removing the existing cap shingles (this should not be necessary on new construction). Determine the location of the cuts in the roof sheathing and snap a chalk line. The Cobra Ridge Vent is installed over a  $1\frac{1}{2}$  inch wide opening (1 inch for truss framed roofs) on each side of the ridge board with uncut openings of 6 inches at each end. Wider openings will not improve ventilation and should be avoided. Cut away the shingles (not required for new construction) first with a roofing knife, and then cut the deck with a circular saw. The saw should be adjusted so that the rafters or trusses are not cut.

Note: The roof decking must be re-nailed to the rafter at the edge closest to the ridge to compensate for the nails removed when the ridge slot was cut.

**Ridge Vent Application:** The Cobra Ridge Vent is then covered with ridge cap shingles and this entire assembly is nailed to the sheathing with a minimum  $2\frac{1}{4}$  inch long galvanized steel roofing nails with a 0.125 inch diameter shank and 0.395 inch diameter by 0.015 inch thick head. The nails are spaced 5 inches on center or two nails per ridge cap shingle unless specified otherwise by the shingle manufacturer. Do not drive nails home. Leave  $\frac{3}{4}$  inch minimum between ridge cap shingles and the roof shingles. Fastener heads are then covered with sealant. The vents ends are open. Shorter lengths of the ridge vent are joined by caulking and butting the ends.

### Installation:

#### Cobra® Rigid Vent™ II

**Roof Deck:** The roof deck shall consist of wood structural panels with a minimum thickness of  $\frac{7}{16}$  inch or Pine wood plank lumber with 1" nominal thickness.

**Ridge Vent Application:** The Cobra Rigid Vent II is centered at the ridge of the roof over a  $1\frac{1}{2}$  inch wide opening along the ridge, with 6 inches remaining uncut at each end of the ridge. The vent is fastened to the roof deck with minimum  $2\frac{1}{4}$  inch long galvanized steel roofing nails, with a 0.125 inch diameter shank and 0.375 inch head diameter, placed at the preformed nail holes formed in the vent. The nails are placed in pairs spaced at 8" o.c. along the vent. Caulk is to be applied at the exposed ends. A bead of caulk is to

## INSTALLATION INSTRUCTIONS (cont.)

be applied where the underside of the outer baffle meets the shingle deck. Shingle tabs are to be applied to the top of the ridge vent per manufacturer's instructions. The covering shingle tabs are fastened with a minimum  $2\frac{1}{4}$  inch long by  $\frac{3}{8}$  inch head diameter galvanized roofing nails, (2) per tab.

**Note:** The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC).