

Product Evaluation

RV93 | 0220

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-93

Effective Date: February 1, 2020

Re-evaluation Date: February 2024

Product Name: Cobra® Hip Vent Exhaust Vent for Hip Roofs

Manufacturer: GAF
1 Campus Drive
Parsippany, NJ 07054
(800) 766-3411
technicalquestions@gaf.com

General Description:

The Cobra® Hip Vent Exhaust Vent for Hip Roofs is a 4' long shingle over hip vent made from ultraviolet ray stable material. Cobra® Hip Vent Exhaust Vent for Hip Roofs is 11.5" wide by nominally 7/8" thick and includes a dual Weather Fighter™ Filter.

Limitations:

Design Pressure: -410 psf

Roof Slope: The minimum roof slope for the venting system is 3:12. The maximum roof slope is 12:12.

Roof Ridge: Do not install the Cobra® Hip Vent Exhaust Vent for Hip Roofs on roof ridges.

Installation:**General Installation Instructions:**

All requirements specified in the IRC and the IBC must be satisfied and the manufacturer's installation instructions followed unless otherwise specified by this product evaluation.

Roof Deck: The roof deck must consist of minimum 7/16" thick OSB wood structural panels.

Cutting Hip Slots: Begin by removing the existing hip cap shingles (this should not be necessary on new construction). Determine the number of Cobra® Hip Vent Exhaust Vent for Hip Roofs sections needed for proper ventilation and the location for cuts in the roof hip. The Cobra® Hip Vent Exhaust Vent for Hip Roofs is installed over a 2-1/2" wide slot opening centered on the hip. The top air slot should begin 12" below the top of the hip and extending 36" down the hip for every 4' section of Cobra® Hip Vent Exhaust Vent for Hip Roofs needed. Leave 12" of the hip uncut after each 36" opening, and the lowest air slot opening must stop at the midpoint of the hip and more than 24" in from the exterior warm wall. Wider openings and slots below the midpoint of the hip will not improve ventilation and must 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 hip to compensate for the nails removed when the hip slot was cut. On installations where roof deck sheathing seams intersect the air slot, stop cutting the air slot 2" before the sheathing seam and continue cutting the air slot 2" after the seam. This will result in a total of 4" of uncut sheathing at the seam. Finish cutting the air slot down to the previously marked 36" point. This will help keep the seam area attached to the hip rafter. In this particular case, the air slot can be widened to 5/8" on each side of the hip rafter to maintain the proper net free area.

Hip Vent Application: The Cobra® Hip Vent Exhaust Vent for Hip Roofs is fastened to the deck starting at the bottom of the hip and then up along the entire length of the hip (this includes uncut portions of the hip). Always ensure the Cobra® Hip Vent Exhaust Vent for Hip Roofs is oriented so that the inscribed arrows located on the top panel of the vent point up the hip towards the roof peak. Fasten Cobra® Hip Vent Exhaust Vent for Hip Roofs to the deck with the included 1-3/4" long collated galvanized steel roofing nails with a minimum 0.125" diameter shank and 0.375" diameter by 0.015" thick head. The included 1-3/4" long nails are in compliance with the Texas Department of Insurance corrosion resistance requirements. Depending on the field shingles used, longer length fasteners may be necessary for proper penetration. Cobra® Hip Vent Exhaust Vent for Hip Roofs is installed per the shingle manufacturer's instructions using the pre-marked nail holes 6" on center. When fastening, ensure each vent section sits tight to the field shingle below.

For roofs with ridge vents, lengths of the hip vent must be butted tightly to sections of ridge vents and install a 3" by 12" strip of self-adhering leak barrier over all junctions. For roofs without ridge vents, sections of hip vent from adjacent hip runs must be mitered together tightly where they intersect and install a 3" by 12" strip of self-adhering leak barrier over all junctions.

The Cobra® Hip Vent Exhaust Vent for Hip Roofs is then covered with ridge cap shingles and this entire assembly is nailed to the sheathing with the included 1-3/4" long collated galvanized steel roofing nails with a minimum 0.125" diameter shank and 0.375" diameter by 0.015" thick head. The included 1-3/4" long nails are in compliance with Texas Department of Insurance corrosion resistance requirements. Depending on the ridge cap shingles used, longer length fasteners may be necessary. The ridge cap shingles are installed per the shingle manufacturer's instructions with a minimum of two nails per shingle and shingle-to-shingle nail spacing of 8" on center or less. Do not overdrive the nails or crush/compact the product during installation.

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.