

Product Evaluation

RV105 | 1221

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-105

Effective Date: December 1, 2021

Re-evaluation Date: December 2025

Product Name: Cobra IntakePro® Rooftop Intake Vent

Manufacturer: GAF

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General Description:

The Cobra IntakePro® Rooftop Intake Vent is an eave edge attic intake ventilation system for shingle roofs. The vent is made from molded polymer fabric. The Cobra IntakePro® Rooftop Intake Vent is 11" wide by 3/4" thick and comes in 20' long rolls.

Limitations:

Design Wind Pressure: -350.0 psf

Roof Slope: The minimum roof slope for the intake venting system is 4:12.

Roof Ridge: The Cobra IntakePro® Rooftop Intake Vent is not to be installed on roof ridges or hips.

Installation Instructions:

General Installation Instructions: 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. This vent must be installed in accordance with the manufacturer's installation instructions and this product evaluation.

Cobra IntakePro® Rooftop Intake Vent Installation:

Roof Deck: The roof deck must consist of minimum 15/32" thick plywood.

Cutting Air Vent Slots: Begin by removing the existing shingles (this should not be necessary on new construction). Determine the length of Cobra IntakePro® Rooftop Intake Vent sections needed for proper ventilation and the location for cuts near the roof eave edge. Install a metal drip edge at the eave edge of the roof. Measure up 6 inches (152mm) and 7" (178 mm) up from the edge of the metal drip edge and strike chalk lines parallel to the eave edge of the roof. Cut a 1" wide air slot opening along the chalk lines, stopping a minimum of 12" (305 mm) from rake/gable edges, side/end walls, and hip intersections, or stopping a minimum of 24" (610 mm) from the center of valley intersections. The saw should be adjusted so that the rafters or trusses are not cut.

Note: After cutting the air slot, clear all debris blocking access into the attic space. Be sure to flatten attic insulation near the air slot to allow for proper intake airflow near the air slot. Attic baffles may be used to help prevent insulation from blocking intake airflow into the attic space.

Intake Vent Application: An 18" (457mm) wide piece of ASTM D1970 Leak Barrier is placed at the eave edge across the width of the deck covering the 1" wide vent air slot. The leak barrier is then cut to fully re-open the vent air slot.

Each roll of Cobra IntakePro® Rooftop Intake Vent comes with two pieces of fabric end cap. To begin the vent run, place one piece of fabric end cap overhanging halfway over the rake/gable edge and parallel to the eave drip edge. Fasten the fabric end cap to the roof deck using two roofing nails, one high and one low. If necessary, a piece of peel and-stick leak barrier can be used in lieu of a fabric end cap.

With the pre-marked dotted nail line and GAF logo facing up toward the sky, position the vent on top of the fabric end cap and flush to the rake/gable edge and eave drip edge. Cobra IntakePro® Rooftop Intake Vent is installed with its front venting face flush to the edge of the metal drip edge. There should be no overhang. Cobra IntakePro® Rooftop Intake Vent is secured with 6d roofing nails spaced at 6" (152mm) on center nearest the eave edge side of the vent through the prescribed nail line and 12" (305mm) on center near the upslope ridge side of the vent. Do NOT nail within 1" (25 mm) from the side, top, or bottom edges of the vent.

Continue installing vent toward the opposite gable/rake edge or termination point. When installing multiple rolls or sections, adjoin the rolls by butting them tightly together. There should be no gap between adjoining sections. For optimal appearance, GAF recommends installing Cobra IntakePro® Rooftop Intake Vent the entire length of the eave. The vent must always extend a minimum of 12" (305 mm) past any air slots. Miter cut the vent at any valley and hip intersections, ensuring the vent sections are butted tightly together. For terminations at gable and rake edges, cover the end of the vent run using the included fabric end cap in the same manner as the start of the vent run.

A 36" (914mm) wide piece of ASTM D 1970 leak barrier is placed over Cobra IntakePro® Rooftop Intake Vent. The leak Barrier is installed flush with the eave edge side of the vent and extended upwards toward the ridge. Install rake drip edge if necessary.

Additionally, the Cobra IntakePro® Rooftop Intake Vent is secured to the deck by the installation of the overlying asphalt shingles and an asphalt starter strip shingle, with 1-3/4" (44mm) collated roofing nails. Shingles and starter strip are installed with 1/4" (6.4mm) to 3/4" (19mm) overhang of the Intake vent. Ensure subsequent courses of field shingles are not fastened into the open-air slot below. Depending on the field shingle being installed, it may be necessary to adjust the nail location to the lowest or highest portion of the shingle's nail zone to help ensure proper fastening into the roof deck below. The roof assembly utilizes a fully shingled roof deck above the intake vent.

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