

# Cobra<sup>®</sup> Snow Country<sup>™</sup> Application Instructions for Manufactured/Modular Housing

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# Cobra<sup>®</sup> SNOWCOUNTRY<sup>™</sup>

Exhaust Vent For Roof Ridge

## APPLICATION INSTRUCTIONS FOR MANUFACTURED/MODULAR HOUSING

**Roof Deck:** Use only over a well-seasoned, supported wood deck, tightly constructed with maximum 6" wide lumber, having adequate nail-holding capacity. Plywood decking as recommended by The American Plywood Association is acceptable.

For ridge vent to function properly, it must be the only exhaust vent for the vented attic space. Do not use with gable-end louvers, turbines, roof vents, or power vents.

**Slope Restrictions:** Use only on slopes between 3/12 and 16/12.

### STEP 1 Calculations for a Balanced Ventilation System

To achieve a "balanced system" with Cobra<sup>®</sup> Snow Country<sup>™</sup> ridge vent, there must be an air intake system (i.e., soffits or under-eave vents). For proper ventilation, the amount of under-eave ventilation must be equal to the amount of ventilation at the ridge.

**NOTE:** Consult local building codes for other ventilation requirements.

**NOTE:** In no case should the amount of exhaust ventilation exceed the amount of intake ventilation.

To determine the minimum square feet of net free ventilating area (NFVA) needed for a balanced ventilation system, use the following formula:

$$\frac{\text{Sq. ft. of attic floor space}}{300} = \text{Min. sq. ft. of NFVA needed}$$

Cobra<sup>®</sup> Snow Country<sup>™</sup> ridge vent has 18.0 square inches of NFVA per lineal foot.

To determine how many feet of Cobra<sup>®</sup> Snow Country<sup>™</sup> ridge vent needed, use the following formula:

$$1/2 \times (\text{min. sq. ft. of NFVA needed}) \times 144 / 18.0 = \text{Min. lineal feet of ridge vent needed}$$

To determine the amount of under-eave vent required, use the following formula:

$$X = \text{NFVA (sq. in. per. lin. ft.) of the under-eave vent or intake vent system selected}$$

$$1/2 \times (\text{min. sq. ft. of NFVA needed}) \times 144 / X = \text{Min. lineal feet of under-eave vent needed}$$

### STEP 2 Instruction For Slots

After calculating the total length of Cobra<sup>®</sup> Snow Country<sup>™</sup> ridge vent needed, determine the necessary slot opening required.

**NOTE:** If installing on an existing roof, remove the cap shingles from the ridge.

**Roofs with a single ridge board:** cut an opening along the ridge, 1 5/8" on each side (Figure A).

**Roofs with a double ridge board:** cut an opening along the ridge, 2 5/8" on each side (Figure B).

Mark off and cut the slot opening, making sure that the ends of the opening stop at least 6" from any end walls and at least 12" from hip and ridge intersections or chimneys (Figure C).

Where short ridges (dormers, ridge intersections) are used, mark and cut the slot making sure that the end of the opening stops at least 12" from the ridge intersection (Figure D).

**MIAMI-DADE COUNTY APPROVED**

State of Florida Approved  
Texas Department of Insurance (RV-29)

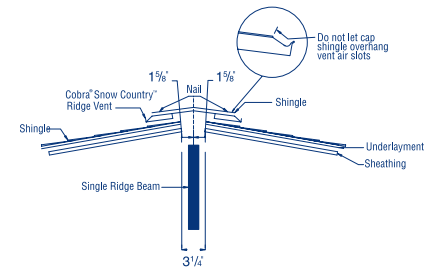
ICC-ES Evaluation Report (ESR-1265)

**RIDGE VENTS-CLASS C AS TO AN EXTERNAL FIRE EXPOSURE WHEN INSTALLED IN ACCORDANCE WITH INSTRUCTIONS PROVIDED WITH RIDGE VENTS R15072**

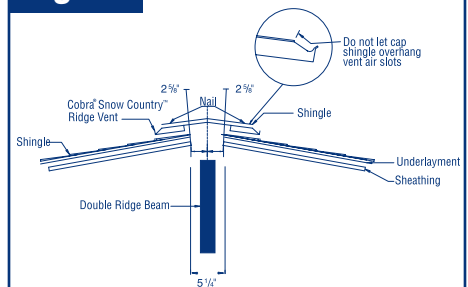
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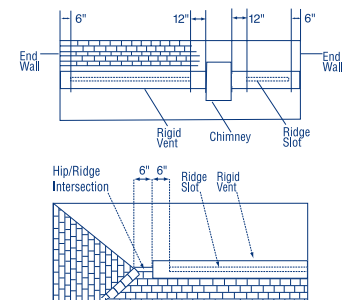
**Fig. A**



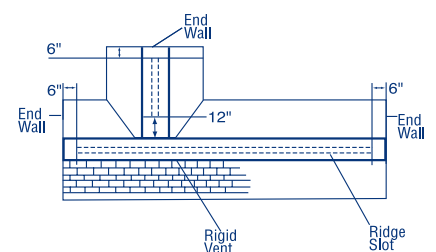
**Fig. B**



**Fig. C**



**Fig. D**



## STEP 3 Ridge Vent Installation

Place, center, and conform the Cobra® Snow Country™ ridge vent over the slot with the vent resting firmly against the roof surface. Attach the vent section with roofing nails through the pre-molded nail holes. Nails must be at least 1 3/4" or longer so that they will penetrate through plywood decks or at least 3/4" into wood planks (Figure E).

**NOTE:** 3" ring shank nails are recommended for increased uplift resistance.

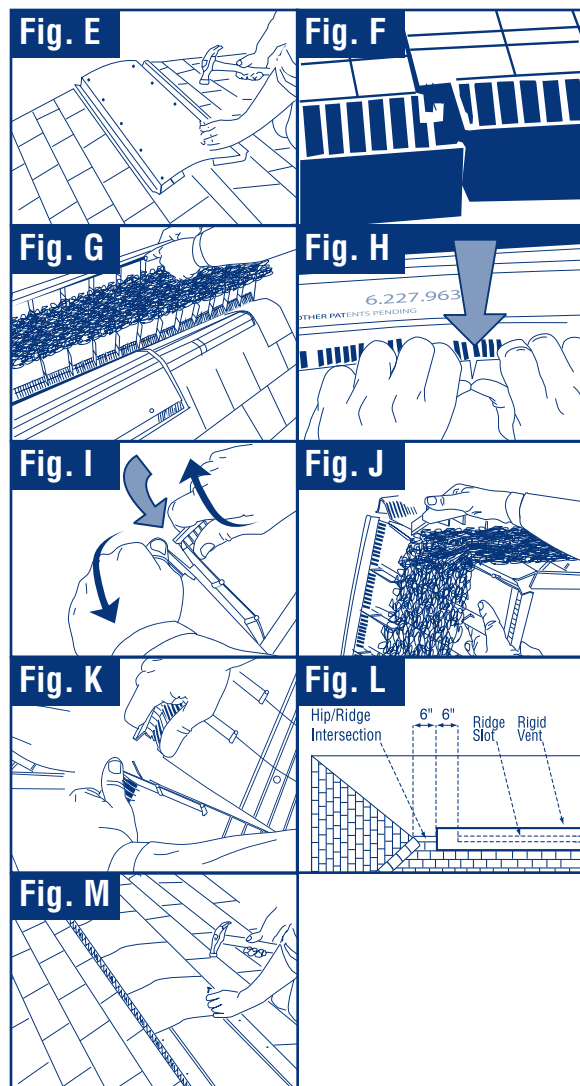
Apply the subsequent Cobra® Snow Country™ ridge vent sections over the length of the ridge using the overlap/underlap tabs (Figure F).

For installations in cold weather, leave 1/8" gap between overlap and underlap of each vent section to allow for expansion.

At the end, it may be possible to use the EasyTear™ feature to create a specific length part to fit.

1. With the underlap end of the part near the final end position desired, select the support rib nearest your desired length (Figure G).
2. Grasp the baffle with both hands close to the baffle cut notch and snap the baffle at this location (Figure H).
3. Flip the vent section over, then tear the bottom of the baffle apart (Figure I). Repeat steps 2 & 3 on the opposite baffle.
4. After the baffles have been torn, fold the vent back flat along the tear seam until it snaps. After folding the vent flat, the filter can be cut with a utility knife (Figure J).
5. Tear the two parts to get your desired custom length part. Discard the leftover portion (Figure K).

Place the newly cut overlap edge over the end of the last full vent installed and nail in place as shown above. If final vent section can not be completed using the EasyTear™ feature, cut the section to desired length. Butt the cut end to the last section installed and caulk the joint. Be sure the finished end is installed to the outside to prevent weather infiltration.



### Please Note The Following:

1. Do not install on hips.
2. For a uniform appearance, install Cobra® Snow Country™ ridge vent over the entire length of the ridge, making sure that the vent extends past the slot opening by at least 6".
3. For applications with hip and ridge intersections, to prevent potential weather or insect infiltration, terminate the Cobra® Snow Country™ ridge vent at least 6" short of the intersection (see Figure L).
4. For applications over laminated shingles, apply a bead of silicone caulking or roof cement to the underside of the outer baffle along the entire ridge and at exposed edges so that the gaps are completely filled. Do not use excess roof cement as it may cause blistering of the shingles.
5. When venting vaulted and cathedral ceilings, each joist/rafter cavity must be vented at both ends and have at least 1 3/4" clearance.

## STEP 4 Cap Shingle Installation

Install the cap shingles directly to the vent, in the normal manner. Nails must be of sufficient length to penetrate through plywood decks or at least 3/4" into wood planks. A nail line is inscribed on the top of the vent to serve as a guide (Figure M).

**NOTE:** 3" ring shank nails are recommended for increased uplift resistance.



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