

# Cobra<sup>®</sup> Exhaust Vent For Roof Ridge – Instruction For Hand Nail Application

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# Cobra® EXHAUST VENT For Roof Ridge

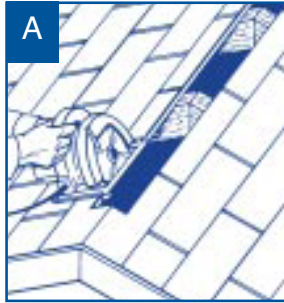


## Instructions for Hand Nail Application

### Roof Deck:

Use only over a well-seamed, supported wood deck, tightly constructed with maximum 6" lumber, having adequate nail-holding capacity. Plywood decking as recommended by the Engineered Wood Association is acceptable.

**Slope Restrictions:** Use only on slopes between 2/12 and 20/12



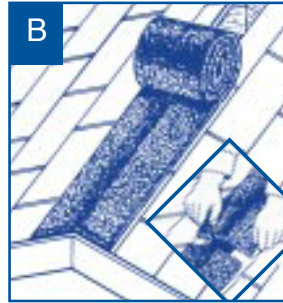
### Step 1 Instructions for Slots...

Cut a 2" (5.1 cm) slot long ridge, 1" (2.5 cm) on each side. Leave uncut (closed) sheathing area of 6" (15.2 cm) at each end of the ridge.

Cut through the sheathing only, avoiding roof trusses. (In houses with a ridge board, cut 3 1/2" (8.9 cm) slot, 1 3/4 (4.4 cm) on each side.) (Figure A)

### NOTE:

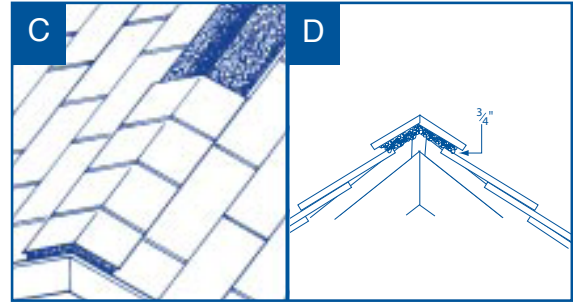
1. When marking off and cutting slot openings, make sure that the ends of the opening stop at least 6" from any end walls and at least 12" from hip and ridge intersections or chimneys.
2. Where short ridges (dormers, ridge intersections) are used, mark and cut the slot and make sure that the end of the opening stops at least 12" from the ridge intersection.
3. Do not install on hip roofs.
4. When installing in high wind areas, apply a bead of silicone or roofing cement around the perimeter of the



### Step 2 Ridge Vent Installation...

Uncoil Cobra® Exhaust Vent along the entire length of the ridge, covering uncut 6" (15.2 cm) sheathing area on both ends. (Figure B)

Shorter lengths can be joined by caulking and butting the ends. (See Inset Figure B)



### Step 3 Cap Shingle Installation...

Install cap shingles directly over Cobra® Exhaust Vent. Use Smart Nails™ (supplied) on centers recommended by shingle manufacturer. (Figure C)

Do not overdrive the Smart Nails™.

Cobra® Exhaust Vent Hand Nail Version has a 3/4" (2 cm) nominal thickness for optimum ventilation. Be sure not to crush or compact the product during installation. (Figure D)

**NOTE:** Nails must be of sufficient length to penetrate through plywood decks or at least 3/4" into wood planks.

- underside of the cap shingle before fastening on top of Cobra® Exhaust Vent. Do not use excess roofing cement as it may cause blistering of the shingles.
5. For applications over laminated shingles, apply a bead of silicone caulking or roof cement to the underside of the outer edge of the vent 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.

### Calculations for a Balanced Ventilation System...

To achieve a "balanced system" with Cobra® Exhaust Vent, there must be an air intake system (i.e. soffits or undereave vents). For proper ventilation, the amount of undereave ventilation must equal the amount of ventilation at the ridge.

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

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

- To determine the minimum square feet of net free ventilation area (NFVA) needed for a balanced ventilation system, use the following formula:  $\frac{\text{Sq. ft. of attic floor space}}{300} = \text{Min. sq. ft. of NFVA needed}$

300

- Cobra® Exhaust Vent has 16.9 (hand nail) and 14.1 (nail gun) square inches of NFVA per lineal foot. To determine how many feet of Cobra® Exhaust Vent is needed, use the following formula:  $\frac{1}{2} \times (\text{Min. sq. ft. of NFVA needed}) \times 144/16.9$  or  $141.1 = \text{Min. lineal feet of ridge vent needed}$
- To determine the amount of undereave vent required, use the following formula:  $X = \text{NFVA (Sq. in. per lin. ft.) of the undereave vent or intake vent selected}$   
 $\frac{1}{2} \times (\text{Min. sq. ft. of NFVA needed}) \times 144/X = \text{Min. lineal feet of undereave vent needed}$