

## SECTION 07723

### RIDGE AND SOFFIT VENTS

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Ridge vents.
- B. Soffit vents.
- C. Hip vents.

##### 1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry.
- B. Section 07310 - Shingles.
- C. Section 07320 - Roof Tiles.
- D. Section 07410 - Metal Roof and Wall Panels.

##### 1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's catalog data, standard details, and installation instructions.
- C. Samples: 2 inch (50 mm) long samples of each profile required.

##### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store products indoors and protect from construction traffic and damage.

#### PART 2 PRODUCTS

##### 2.1 MANUFACTURER

- A. Manufacturer: Provide vents fabricated by Cor-A-Vent, Inc.; 2529 Lincolnway West; Mishawaka, IN 46544. ASD. Tel: (800) 837-8368. Fax: (800) 645-6162.
- B. Substitutions will not be acceptable.

## 2.2 MATERIALS

- A. Ridge Vents - General: Manufactured of corrosion-free, corrugated, laminated, high-density polyethylene (HDPE) or polypropylene.
- B. Ridge Vents: Cor-A-Vent V-400/V-600 Ridge Vent.
  - 1. Net free area: 18 sq in per lin ft (38100 sq mm/m).
  - 2. Color: Black.
  - 3. Dimensions: 11 inches (279 mm) wide by 48 inches (1220 mm) long by 1 inch (25 mm) high.
- C. Ridge Vents: Cor-A-Vent V-600/CS Ridge Vent.
  - 1. Net free area: 18 sq in per lin ft (38100 sq mm/m).
  - 2. Color: Black.
  - 3. Dimensions: 8-1/2 inches (216 mm) wide by 48 inches (1220 mm) long by 1 inch (25 mm) high.
- D. Ridge Vents: Cor-A-Vent V-600/T Ridge Vent.
  - 1. Net free area: 18 sq in per lin ft (38100 sq mm/m).
  - 2. Color: Black.
  - 3. Dimensions: 3-1/2 inches (89 mm) wide by 48 inches (1220 mm) long by 1 inch (25 mm) high.
- E. Ridge Vents: Cor-A-Vent V-300 Ridge Vent.
  - 1. Net free area: 12 sq in per lin ft (25400 sq mm/m).
  - 2. Color: Black.
  - 3. Dimensions: 11 inches (279 mm) wide by 48 inches (1200 mm) long by 5/8 inch (16 mm) high.
- F. Ridge Vents: Cor-A-Vent V-300/CS Ridge Vent.
  - 1. Net free area: 12 sq in per lin ft (25400 sq mm/m).
  - 2. Color: Black.
  - 3. Dimensions: 8-1/2 inches (216 mm) wide by 48 inches (1220 mm) long by 5/8 inch (16 mm) high.
- G. Soffit Vents: Cor-A-Vent S-400 Strip Vent.
  - 1. Net free area: 9 sq in per lin ft (19050 sq mm/m).
  - 2. Dimensions: 1-1/2 inches (38 mm) wide by 48 inches (1220 mm) long by 1 inch (25 mm) high.
  - 3. Color: Black.
  - 4. Color: White.
- H. End Caps: Cor-A-Vent EC-400 End Cap.
  - 1. Color: Black.
  - 2. Material: Aluminum.

- I. Flashing: Cor-A-Vent WS-400 Solid Weathershield Flashing.
  - 1. Color: Black.
  - 2. Material: Aluminum.
  
- J. Flashing: Cor-A-Vent WS-400E Enhanced Weathershield Flashing.
  - 1. Color: Black.
  - 2. Material: Aluminum.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verify that framing, sheathing, and shingles are secured and ready to receive vents.
  
- B. Verify that there is a 1 inch (25 mm) wide clear air space between sheathing and each side of ridge board or, if trusses are used, a 1-1/2 inch (40 mm) wide continuous clear air space centered on ridge.

### 3.2 INSTALLATION

- A. General:
  - 1. Install ridge vents along entire length of roof ridges.
  - 2. Install soffit vents along entire length of soffits.
  - 3. Install V-300 along entire length of intersection of shed roofs and vertical walls.
  - 4. Install hip vents on hips to provide proper ventilation.
  
- B. Ridge Vents:
  - 1. Fit metal end cap onto one end of the first and last piece of ridge vent.
  - 2. Lay a bead of calking on the under side of the end cap, press the piece and cap into position, and nail through the end cap, the ridge vent, and into the roof sheathing.
  - 3. Use roofing nails that are long enough to penetrate ridge vent and through roof sheathing.
  - 4. Drive the nails down flush so that the vent and end cap are held down firmly.
  - 5. Do not indent by over driving.

6. Butt each successive piece up snugly, checking for straight alignment.
  7. Use 2 nails in each end and 1 at each side at center, pulling up slightly when nailing second side to ensure that the vent is nailed at the same pitch as the roof.
  8. If roof shingles are the heavy dimensional type, a bead of sealant must be applied on top of the shingles to provide weather seal between the shingles and vent.
- C. Cap Shingles:
1. Place the first cap shingle with approximately 1/2-inch (40 mm) overhang over the end cap and at each side of the ridge vent.
  2. Nail down through the shingle, the ridge vent, and through the roof sheathing.
  3. Nails must be long enough to penetrate the roof sheathing. In high wind areas, washer-head nails may be used to provide additional holding for the shingle caps.
  4. Do not fasten V-400 or V-600 vents with staples.
  5. Preform shingle caps in cold weather to avoid cracking or humping up over the ridge.
  6. Apply cap shingles with 1 nail each side, up approximately 2-1/2 inches (60 mm) from the overhanging edge.
  7. Drive nails flush; do not indent.
- D. Steep Pitch and Wide Ridge Beam Applications:
1. Cut ridge vents into 2 half pieces lengthwise.
  2. Nail half pieces over shingles on either side of the ridge slot.
  3. Fasten metal flashing over ridge vent.
  4. Cut oversize shingle ridge caps or lap 12 inch (300 mm) long shingles, and install as specified.
- E. Hips: Install ridge vent as needed on hips to provide proper ventilation. If vent must be run down entire length of hip, do not cut slot within 3 feet (1 m) of the building line.
1. Rafters at 24 inches (610 mm) on centers: Install 8 inch (200 mm) long 2x4 (50 x 100 mm) wood blocking nailed or screwed into hip rafter between each rafter to support roof sheathing. Nail sheathing to blocking.

2. Apply a continuous bead of sealant to roof shingles immediately prior to placing hip vent to form a seal between roof shingles and bottom of hip vent.
  3. Vents may be continued down hip without slot to maintain uniform appearance.
- F. Clerestory and Shed Roofs: Install continuous vents full length of intersections of roof with vertical walls or clerestories, or at shed roofs in accordance with drawings.
- G. Cedar Shakes:
1. Select shakes of uniform thickness to provide an even surface for the vent to rest on.
  2. Lay a bead of sealant on top of and between edges of shakes to provide weather seal between shakes and vent.
  3. Install wet sheet on top of vent and cap with shakes. Use nails of sufficient length to penetrate sheathing.
- H. Metal Roofing: Install ridge and soffit vents as specified by manufacturer and in accordance with drawings.
- I. Tile Roofs: Install ridge and soffit vents as specified by manufacturer and in accordance with drawings.
- J. Flashings: Install specified flashings where indicated on the drawings.

### 3.3 SOFFIT VENTS

- A. Install continuous vents full length of soffits, unless otherwise indicated.
- B. Ensure that adequate blocking or barriers are installed to prevent insulation from impeding air flow.

### 3.4 ADJUST AND CLEAN

- A. Remove any scrap from the site, and leave in a neat and clean condition.

END OF SECTION