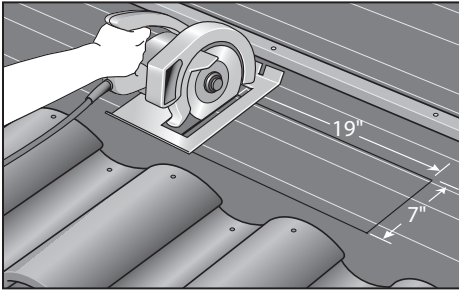


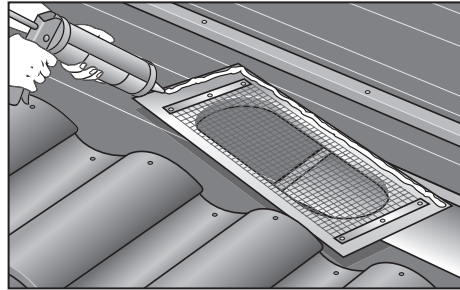
# O'HAGIN STANDARD AND FIRE & ICE ATTIC VENTS

## INSTALLATION INSTRUCTIONS FOR CONCRETE TILE ROOF APPLICATIONS

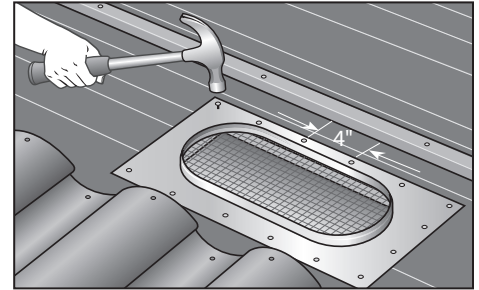
### CONCRETE HIGH PROFILE (S)



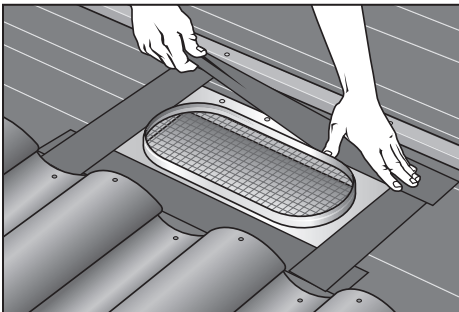
**1. MARK & CUT** a 19 inch x 7 inch hole in the roof deck, centered between layout lines and aligned approximately as shown on the exposure lines. (Note: Set blade to the thickness of the sheathing.)



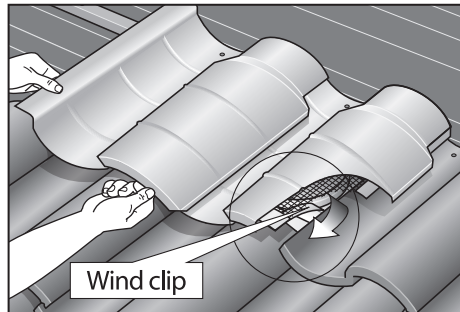
**2. SEAL** using a sufficient amount of locally-approved sealant (Class A where required by code for flame and ember resistance) around outer flange of primary vent (subflashing).



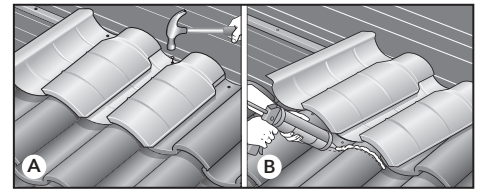
**3. ATTACH** subflashing at 4 inch centers, using locally-approved roofing nails or screws of sufficient length to penetrate the sheathing.



**4. FLASH** (See No. 1 in the **General Instruction Notes** below.) When using peel and stick or membrane and mastic methods, apply bottom strip first, then sides, and finally, the top strip.



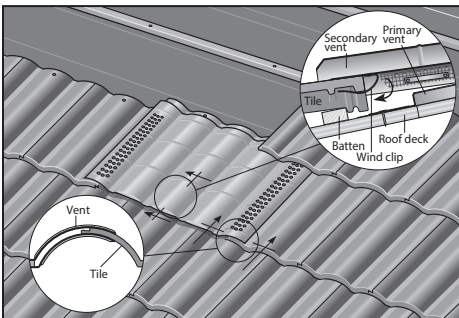
**5. INSTALL** the secondary vent (cover), bending the wind clip tightly under the preceding course of tile, adjusting for head lap.



**6. A. SECURE** with locally-approved roofing nails or screws of sufficient length to penetrate sheathing.

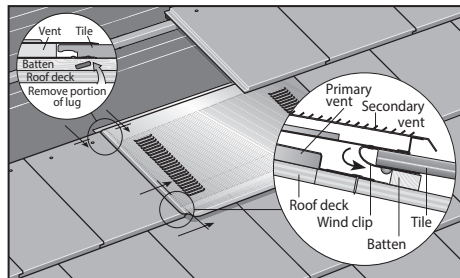
**B. SEAL** For **FIRE&ICE®** only, seal any gaps between cover and surrounding tiles using locally-approved sealant (Class A where required by code for flame and ember resistance.)

### CONCRETE MEDIUM PROFILE (M)



- Follow Steps 1-4 of the High Profile (S) installation instructions.
- Tile is then inserted between perforated top of secondary vent (cover) and bottom flanged water channel (see insert) Bend the wind clip tightly under the preceding course of tile, adjusting for head lap. The cover takes the place of two field tiles.
- Secure and seal as shown in Step 6 of the High Profile (S) installation instructions.

### CONCRETE LOW PROFILE (FLAT)



- Follow Steps 1-4 of the High Profile (S) installation instructions.
- Insert tile between louvered top of secondary vent (cover) and bottom flanged water channel (see insert). Bend the wind clip tightly under the preceding course of tile, adjusting for head lap. Remove 2 to 3 inches of the tile batten lug on either side of the cover for proper fit. For tiles with continuous lugs, a portion of the lug may be removed as needed for wind clip installation. The cover takes the place of two field tiles.
- Secure and seal as shown in Step 6 of the High Profile (S) installation instructions. If necessary, seal underside of cover and top of tile below, using locally-approved sealant (Class A where required by code for flame and ember resistance.)

#### GENERAL INSTRUCTION NOTES:

- Depending on climate conditions and local best roofing practices, the following methods are acceptable: a) peel and stick; b) three-course and mastic; c) bib-over and mastic; d) membrane and mastic, or finally, e) any other locally-approved waterproofing/sealing method. Any waterproof membrane should be held a minimum of 3/4 inch away from the primary vent as installed in Steps 1 through 4, at left, OR, in such a manner as to prevent the "ramping" of water up and over waterproofing material and the raised lip of the primary vent. Prime metal on primary vent, as installed in Steps 1 through 4, at left, if using peel and stick method.
- Seal all penetrations with locally-approved sealant (Class A where required by code for flame resistance) or other approved application. Class A materials should be used on installation of **FIRE&ICE®** attic ventilation products where required by local code.
- Do not install vents below areas of concentrated water runoff, particularly if partially under, near, or adjacent to solar array installations. Placement assumes gutters are installed and are in good working order in all applicable areas.
- Standard installation at 3:12 pitch or greater.
- All low vents (intake) shall be uniformly installed a minimum of 6 inches above the attic insulation. The width of any eave overhang shall be taken into consideration so, for example, the insulation does not block the attic vent opening.
- All high vents (exhaust) shall be uniformly installed in the second or third course below the ridge assembly (at highest point possible—a minimum of one full course below the ridge) unless prevented by structural framing or other design limitations.
- O'Hagin vents are designed to be part of a complete roofing system. Failure to properly install all components will negatively impact overall performance and will void warranty protections.