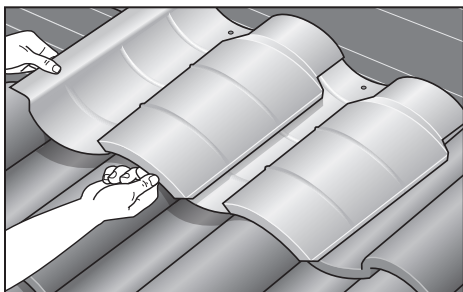


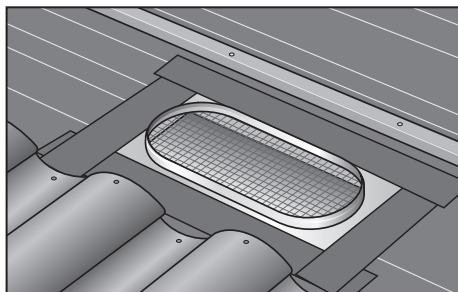
INSTALLATION INSTRUCTIONS FOR CONCRETE TILE ROOF APPLICATIONS

O'Hagin **FIRE&ICE**® Attic Vent Retrofit Program is designed to upgrade existing O'Hagin standard vents for tile as well as replace alternative styles of roof field vents with our new **FIRE&ICE**® Attic Vents, which are designed to exceed the code requirements of the California Building Code, Chapters 12 and 7A. Please read and follow these instructions carefully.

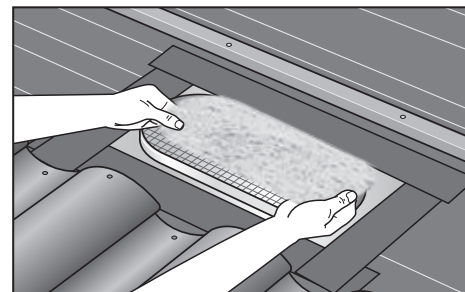
CONCRETE HIGH PROFILE (S)



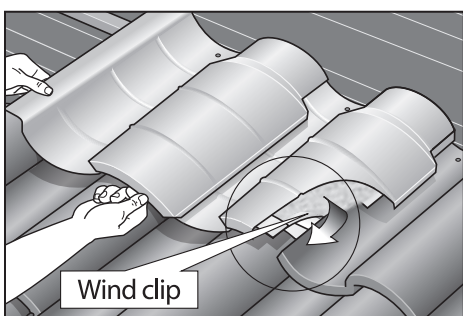
1. REMOVE surrounding roof tiles, existing secondary vent (cover) and any debris on or near the primary vent (subflashing).



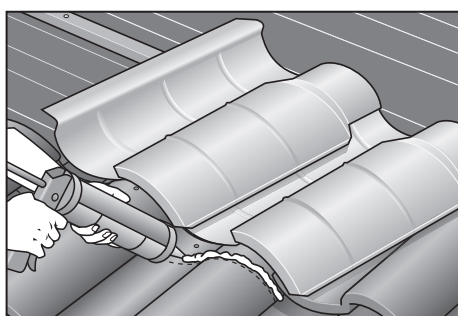
2. INSPECT existing subflashing has been properly installed in accordance with manufacturer's installation instructions (See No. 1 in the **General Instruction Notes** below.)



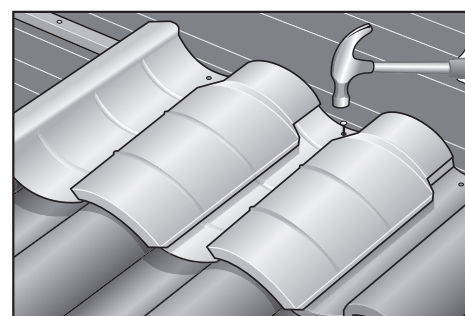
3. APPLY pre-cut section of the patented 3-D ember-resistant stainless steel vent matrix within the interior lip of the subflashing, fully covering the wire mesh screen. (See No. 2 in the **General Instruction Notes** below.)



4. INSTALL the new **FIRE&ICE**® cover, bending the wind clip tightly under the preceding course of tile, adjusting for head lap.

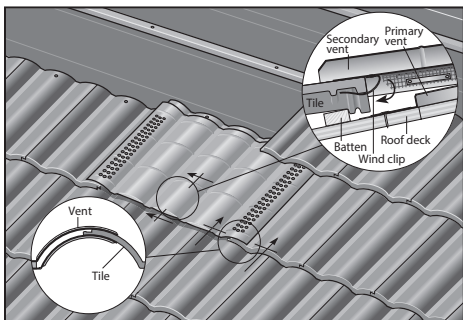


5. SEAL any gaps between **FIRE&ICE**® cover and surrounding tiles, as well as any fastener penetrations, using locally-approved Class A sealant for flame and ember resistance.



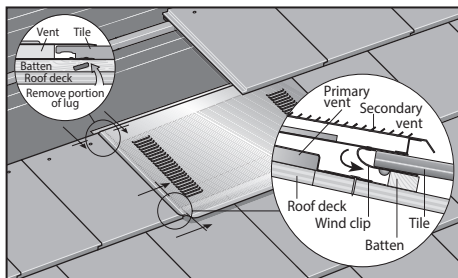
6. SECURE with locally-approved roofing nails or screws of sufficient length to penetrate sheathing.

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.
- Seal and Secure as shown in Step 6 of the High Profile (S) installation instructions on steps 5 and 6 above.

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.
- Seal and Secure as shown in Step 5 and 6 above.

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.
- When required by local ordinances, apply the pre-cut section of 1/8" wire mesh within the interior lip of the subflashing. Next apply the pre-cut section of the patented 3-D ember-resistant stainless steel matrix within the interior lip of the subflashing.
- 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.