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Legacy report on the 1997 Uniform Building Code™, the 2000 International Building Code®, and the 2000 International Residential Code®

DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07720—Roof Accessories

STEALTH RIDGE VENT

PACIFIC AWARD METALS, INC.
1450 VIRGINIA AVENUE
BALDWIN PARK, CALIFORNIA 91706

1.0 SUBJECT

Stealth Ridge Vent.

2.0 DESCRIPTION

2.1 General:

Stealth ridge vents are vents for use under Section 1505.3 of the 1997 Uniform Building Code™ (UBC), Section 1503.5 of the 2000 International Building Code® (IBC) and Section R806 of the 2000 International Residential Code® (IRC) to provide required attic ventilation in conjunction with roof coverings of clay or concrete tile. The air vent system consists of a ridge cap and subflashing. The ridge cap is constructed of No. 26 gage [0.0187 inch (0.475 mm)] sheet steel complying with either ASTM A 792-02, CS, Type A, having an AZ-50 aluminum-zinc alloy coating; or ASTM A 653-01a, CS, Type A, having a G90 galvanized coating. The ridge caps have three rows of 0.250-inch-diameter (6.4 mm) holes spaced at 0.4375 inch (11.1 mm) on center on either side of the ridge. The subflashing is constructed of No. 28 gage [0.0157 inch (0.399 mm)] sheet steel complying with either ASTM A 792-02, CS, Type A, having an AZ-50 aluminum-zinc alloy coating; or ASTM A 653-01a, CS, Type A, having a G90 galvanized coating. The subflashing has five rows of 0.1875-inch-diameter (4.76 mm) holes 0.25 inch (6.4 mm) on center along the length of the piece. See Figure 1.

The net free ventilation area of the system is 8.0 square inches per lineal foot (18.7 mm²/mm) of vent.

2.2 Installation:

Minimum roof slope is 3:12 (25%). The roof sheathing is cut back from the ridge line between 1 3/4 and 2 inches (44.5 and 51 mm) on both sides of the ridge, a maximum of 14 1/2 inches (368 mm) in length in every other rafter bay. Underlayment must be installed over the ridge following standard procedures, removing the underlayment where the sheathing has been cut between rafters. A ridge nailer board, sized for the applicable ridge tile, is attached to the ridge. The subflashing is positioned against the nailer and attached to the roof deck with 6d corrosion-resistant roofing nails spaced at 24 inches (610 mm) on center. Ends of the subflashing must overlap a minimum of 1 inch (25.4 mm). Nominal 1-by-2 wood battens are installed over the subflashing and attached to the wood deck with 8d corrosion-resistant roofing nails spaced at 24 inches (610 mm) on center. The field tile is then

installed over the batten. The ridge cap is positioned over the ridge nailer and attached with 1-inch-long (25.4 mm), 8d, corrosion-resistant roofing nails spaced at 24 inches (610 mm) on center. Ends of the ridge cap must overlap a minimum of 1 inch (25.4 mm). A bead of approved adhesive is placed approximately 2 1/2 inches (63.5 mm) from the nailer for flat tile applications. On low- or high-profile tile applications, additional weather blocking below the ridge cap must be installed in accordance with the roof tile manufacturer's instructions. Weatherblocking must not obstruct or block the holes in the ridge cap or subflashing. The ridge tiles are installed over the ridge cap and fastened in accordance with the roof tile manufacturer's instructions and the Roof Tile Institute Installation Manual for Moderate Climate Regions (ER-6034P).

2.3 Wind Resistance:

When installed in accordance with Section 2.2, the Stealth Ridge Vents may be installed in areas subject to maximum design wind pressures of 69 psf (3.30 kN/m²) when determined in accordance with UBC Section 1620, IBC Section 1609 or IRC Section R301.2.1. In jurisdictions enforcing the UBC, this represents areas subject to maximum basic (fastest mile) wind speeds of 80 miles per hour (129 km/h), on structures having a mean roof height of 40 feet (12 192 mm), in Exposure B, C or D areas.

2.4 Identification:

The Stealth Ridge Vents bear a label with the Award Metals name, the part number and the evaluation report number (ER-6171).

3.0 EVIDENCE SUBMITTED

Data in accordance with the Acceptance Criteria for Attic Vents (AC132), dated January 2001, and a quality control manual.

4.0 FINDINGS

That the Stealth Ridge Vents described in this report comply with the 1997 Uniform Building Code™, the 2000 International Building Code® and the 2000 International Residential Code®, subject to the following conditions:

- 4.1 Vents are installed in accordance with this report and the manufacturer's instructions.
4.2 Vents are installed on roofs having a minimum slope of 3:12 (25% slope).
4.3 Installation is limited to areas described in Section 2.3 of this report.
4.4 Roof diaphragm nailing requirements of the applicable code are addressed, and the vent installation is approved by the building official.

This report is subject to re-examination in one year.

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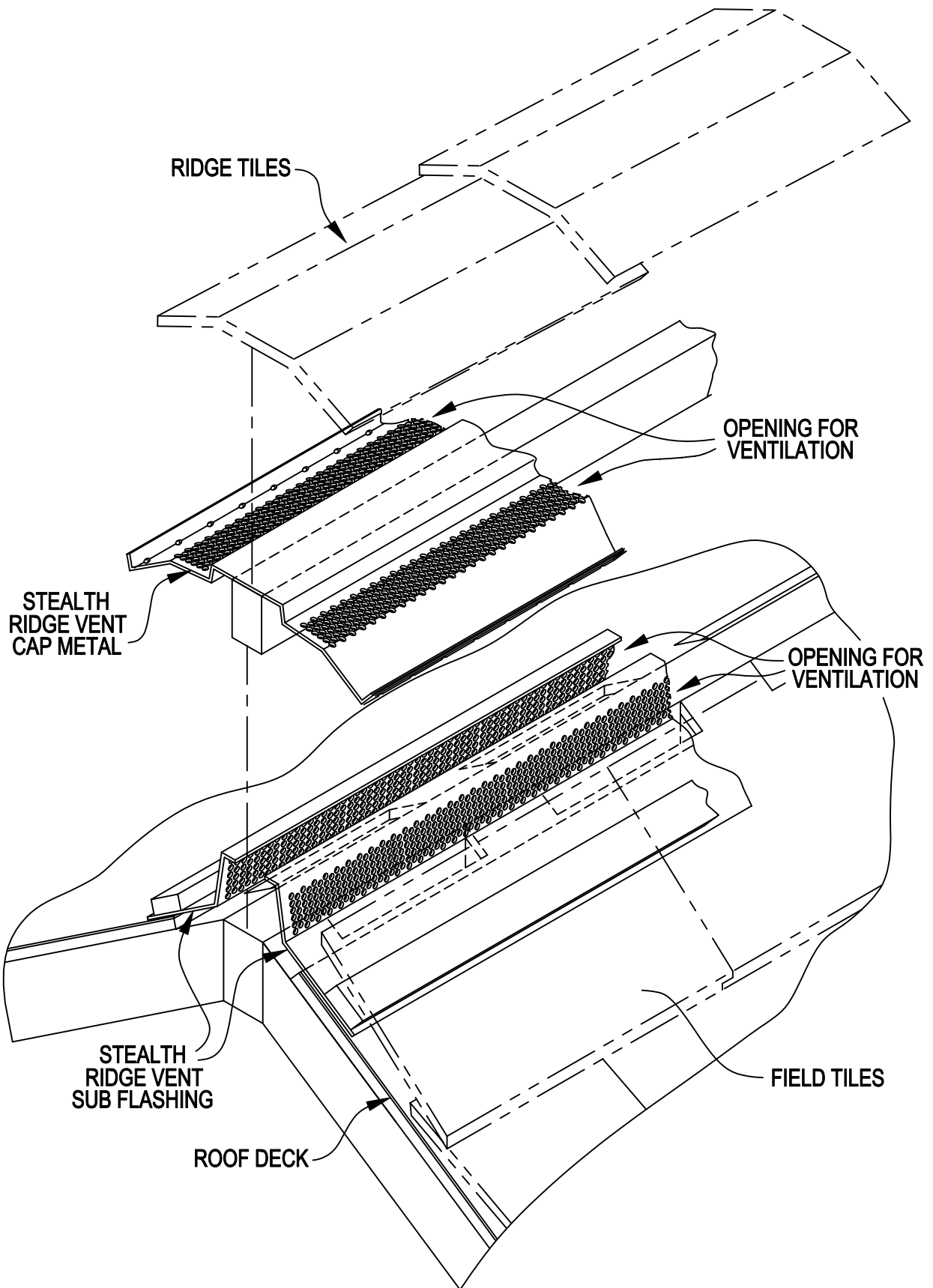


FIGURE 1