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Legacy report on the 1997 Uniform Building Code™

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

STEALTH™ ROOF AIR VENTS

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

1.0 SUBJECT

Stealth™ Roof Air Vents.

2.0 DESCRIPTION

2.1 General:

Stealth roof air vents are vents for use under Section 1505.3 of the code to provide required attic ventilation in conjunction with roof coverings of composition shingle, flat tile and "S"-shaped tile. The air vent system consists of a vent cover and subflashing. The vent covers are constructed either of No. 26 gage [0.0187 inch (0.475 mm)] galvanized steel complying with ASTM A 653-01a, Designation SP CSA, or of aluminum-zinc alloy-coated steel complying with ASTM A 792-02, Designation SP CSA. The exposed surface of the vent cover may be bare metal, metal prepainted with polyester paint, or metal coated with a 3/16-inch-thick (4.8 mm) layer of AWARD STONECOAT™. The vent covers have 0.188-inch-diameter (4.78 mm) ventilation holes in staggered rows spaced approximately 1/4 inch (6.4 mm) on center. See Figure 1. The vent size, deck opening size and ventilation area are noted in Table 1.

The subflashing is manufactured of the same materials as the roof vent, and incorporates a 1/4-inch-square (6.4 mm) corrosion-resistant mesh over the opening. The dimensions of the subflashing opening for each vent size are noted in Table 1.

2.2 Installation:

2.2.1 General: Minimum roof slope is 3:12 (25% slope). The opening in the roof deck must be sized in accordance with Table 1. The subflashing and vent covers must be attached to the roof deck or to battens with 8d, corrosion-resistant common nails or with 2-inch-long (51 mm), No. 8, corrosion-resistant wood screws. See Section 2.3 of this report for vent fastener spacing. The vent flanges must be sealed with approved roofer's mastic. When required by Section 2.3 of this report, the wind diverter, supplied by Award Metals, Inc., must be attached to the front flange of the vent cover with 1/4-inch-long (6.4 mm), self-tapping sheet-metal screws spaced at 6 inches (152 mm) on center.

2.2.2 Subflashing: The vent subflashing is required for the flat-tile and "S"-shaped tile vents. The subflashing is centered over the deck opening, with the top flange of the subflashing placed under the roof underlayment. The flanges of the subflashing must be sealed with approved roofer's mastic and attached to the roof deck with 1 1/4-inch-long (31.7 mm), 5/8-inch-diameter-head (15.9 mm), ring-shank, galvanized roofing nails spaced at 4 inches (152 mm) on center. See Figure 2.

2.2.3 Shingle Roof Coverings: The roof deck opening must be located so that between 3 and 7 inches (76 and 178 mm) of shingle are located above the opening. The vent must be located as shown in Figure 3 and attached to the roof deck with fasteners specified in Section 2.2.1.

2.2.4 Flat Tile Roof Coverings: The roof deck opening must be located 7 inches (178 mm) below the top edge of the roof tile battens, as shown in Figure 4. The subflashing and vent must be positioned as shown in Figure 4. The subflashing is attached in accordance with Section 2.2.2. The vent is attached to the roof deck with fasteners specified in Section 2.2.1. The top flange of the vent must also be sealed with an approved sealant.

2.2.5 "S"-shaped Tile Roof Coverings: The roof deck opening must be located 1 inch (25.4 mm) below the top edge of the roof tile battens. Battens must be cut to allow the top of the vent to lie flat on the roof deck. The subflashing is installed in accordance with Section 2.2.2. The top flange of the vent must be placed under the roof underlayment, with the deadsoft aluminum bottom skirt on the top of the next-lower course of roof tiles. A 2-by-4 must be attached, on edge, to the roof deck with 16d corrosion-resistant common nails, spaced at a maximum of 16 inches (406 mm) on center, centered to the vent cover and located as shown in Figure 5. The vent is then attached to the 2-by-4 with fasteners specified in Section 2.2.1. The aluminum skirt is then formed to the shape of the roof tiles, and attached with approved roofer's mastic. See Figure 5.

2.3 Wind Resistance:

When installed with a wind diverter as described in Section 2.2.1 and Figure 3, 4 or 5, and with fasteners spaced at 8 inches (203 mm) on center, installation is limited to areas subject to maximum basic wind speeds of 80 miles per hour (129 km/h), on structures a maximum of 40 feet (12 192 mm) in height, in Exposure D areas.

When installed without a wind diverter with fasteners spaced at 16 inches (406 mm) on center, installation is limited to areas subject to maximum basic wind speeds of 80 miles per hour (129 km/h), on structures a maximum of 40 feet (12 192 mm) in height, in Exposure B areas.

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2.4 Identification:

All vents identified in Table 1 bear a label with the Award Metals, Inc., name, the vent size and the evaluation report number (ER-5463). Cartons or packaging identify the Award Metals, Inc., name and address and the product name, and include installation instructions.

3.0 EVIDENCE SUBMITTED

Data and reports of tests in accordance with the Acceptance Criteria for Attic Vents (AC132), dated January 2001.

4.0 FINDINGS

That the Stealth™ roof air vents described in this report comply with the 1997 Uniform Building 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.

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

TABLE 1—STEALTH AIR VENTS

VENT MODEL	OUTSIDE DIMENSIONS (length x width) (inches)	ROOF DECK OPENING (length x width) (inches)	SUBFLASHING OPENING (length x width) (inches)	NET FREE VENTILATION AREA (square inches)
Flat Tile Roofs:				
24 inch	35 x 22	14 x 5	14 x 5	40
30 inch	41 x 22	20 x 5	20 x 5	53
36 inch	47 x 22	26 x 5	26 x 5	66
48 inch	59 x 22	38 x 5	38 x 5	90
Composition Shingle Roofs:			Subflashing not required	
24 inch	24 x 17.765	14 x 5		40
30 inch	30 x 17.765	20 x 5		53
36 inch	36 x 17.765	26 x 5		66
48 inch	48 x 17.765	38 x 5		90
“S”-shaped Tile Roofs:				
24 inch	35 x 30	14 x 5	14 x 5	40
30 inch	40 x 30	20 x 5	20 x 5	53
36 inch	47 x 30	26 x 5	26 x 5	66
48 inch	59 x 30	38 x 5	38 x 5	90

For SI: 1 inch = 25.4 mm, 1 square inch = 654.16 mm².

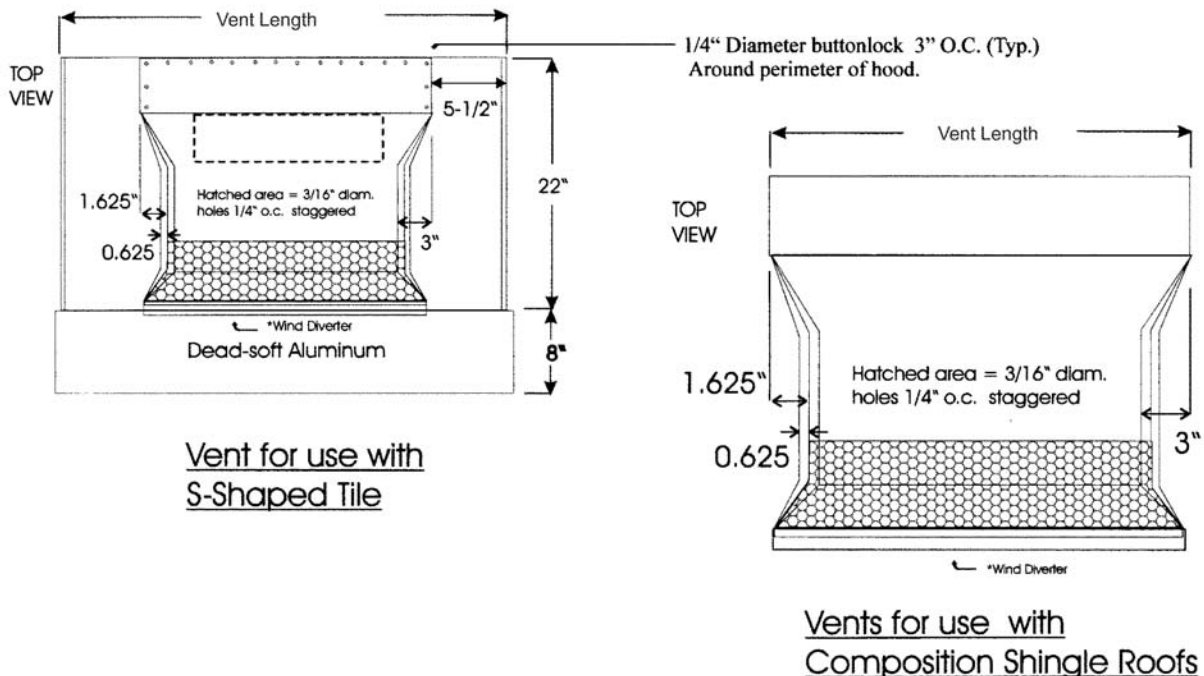
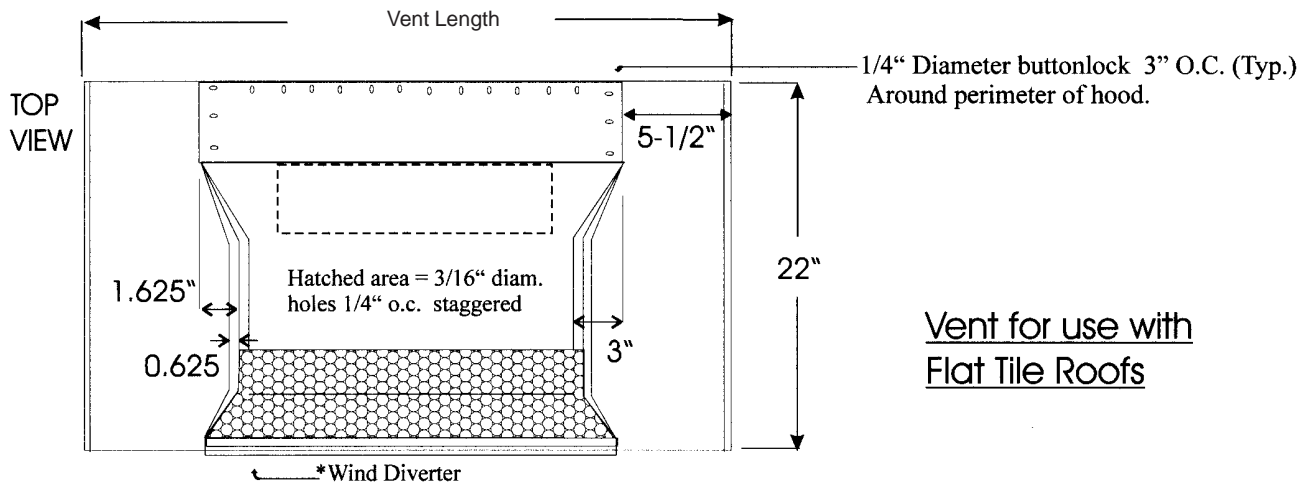


FIGURE 1—STEALTH ROOF VENTS



* See Section 2.3 of this report regarding use of the wind diverter.

FIGURE 1—STEALTH ROOF VENTS—(Continued)

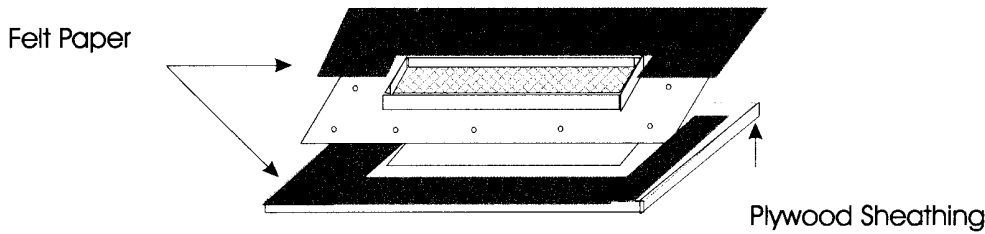


FIGURE 2—SUB-FLASHING INSTALLATION

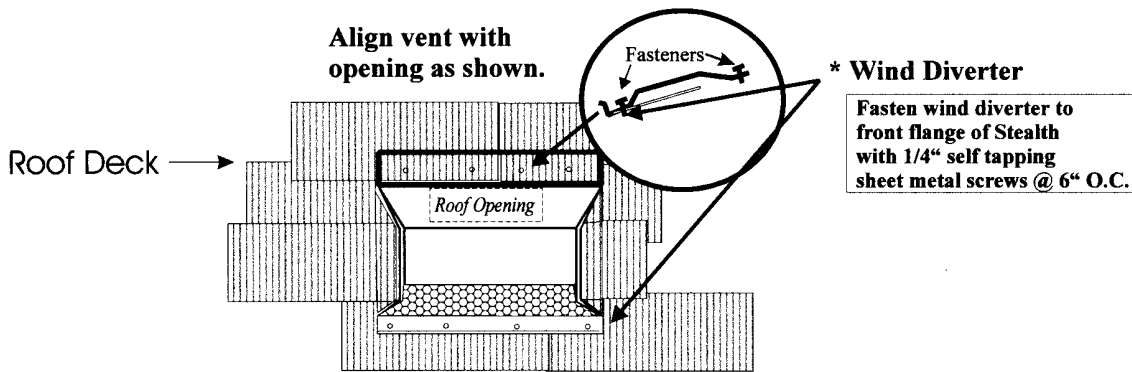
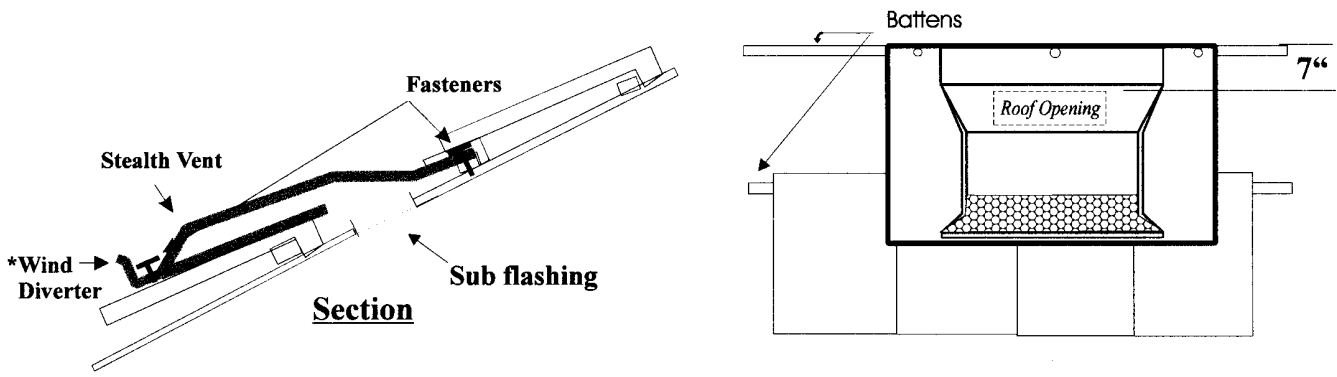
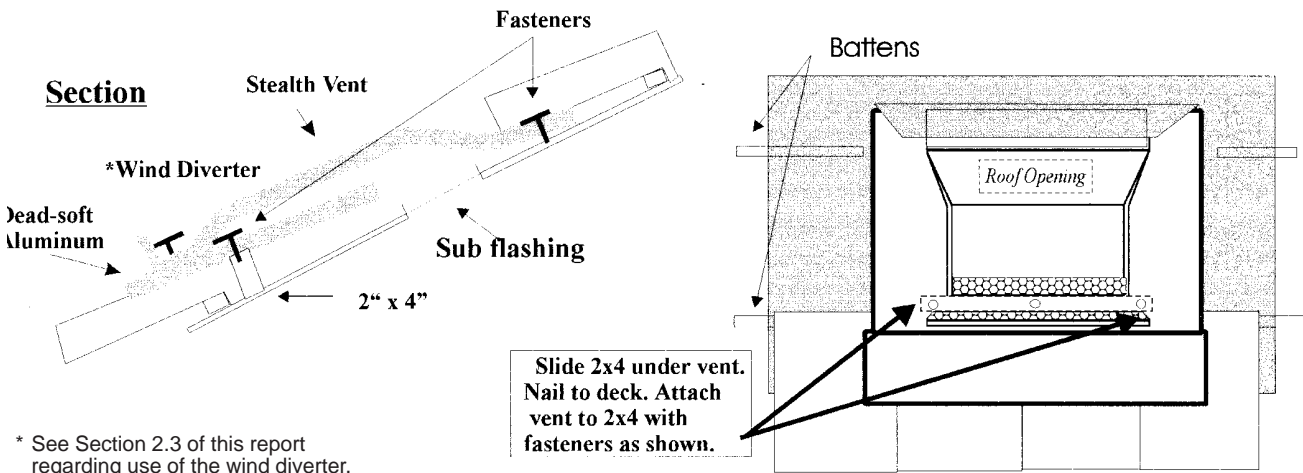


FIGURE 3—INSTALLATION OF VENT ON COMPOSITION SHINGLE ROOFS



* See Section 2.3 of this report regarding use of the wind diverter.

FIGURE 4—INSTALLATION OF VENT ON FLAT TILE ROOFS



* See Section 2.3 of this report regarding use of the wind diverter.

FIGURE 5—INSTALLATION OF VENTS ON CURVED TILE ROOFS