

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

Effective October 1, 2011

RV-63

*The following product has been evaluated for compliance with the wind loads specified in **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **September 2015**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Solar Attic Vents, Models 301001286, 31001287 and 31001288, manufactured by

TAMKO Building Products, Inc.
220 W. Fourth Street
Joplin, MO 64801
Telephone: (800) 641-4691

will be acceptable for use in designated catastrophe zones along the Texas Gulf Coast when installed in accordance to manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

General Description:

Models 31001286, 31001287, and 31001288: These model series are self-flashing, roof mounted, solar powered attic ventilators designed for compositions (asphalt) shingle roof system or similar low-profile roofing materials. These model series feature a 20-Watt solar panel directly attached to the top of the ventilator dome.

Ventilator Construction: The ventilator is constructed of a 0.1" thick acrylic capped ABS plastic, with a 14" inside conical base diameter and a 25" x 21.750" rectangular flange. The dome is fastened to the throat of the base via four (4) 1" wide 16 GA stainless steel support flanges, each attached to the throat with one (1) 3/16" x 0.500" self-tapping Tek screw. The dome and support flanges are each attached with one (1) 3/16" pop rivet. Two (2) stainless steel motor mount brackets are secured to each support bracket with one (1) 3/16" pop rivet and secured to each other with two (2) 7/16" x 0.625" HH bolts with nuts. A 1/8" SS mesh screen is secured to the vent base with three (3) 3/16" aluminum pop rivets, two (2) pop rivets at the overlap and one(1) at opposite side.

A solar panel, measured 19.438" wide x 16.125" wide, is mounted on the top of the ventilator dome. The panel is secured to vent dome using silicone adhesive sealant.

Model	Color
31001286	Black
31001287	Brown
31001288	Weathered Wood

LIMITATIONS

Design Wind Pressure: ±120 psf

Roof Deck: The roof deck shall be minimum nominal $\frac{1}{2}$ " plywood ($\frac{1\frac{5}{32}}$ " plywood is acceptable).

Roof Slope: The roof vent may be installed on roofs with a minimum slope of 2:12 and any slope up to a maximum slope of 12:12.

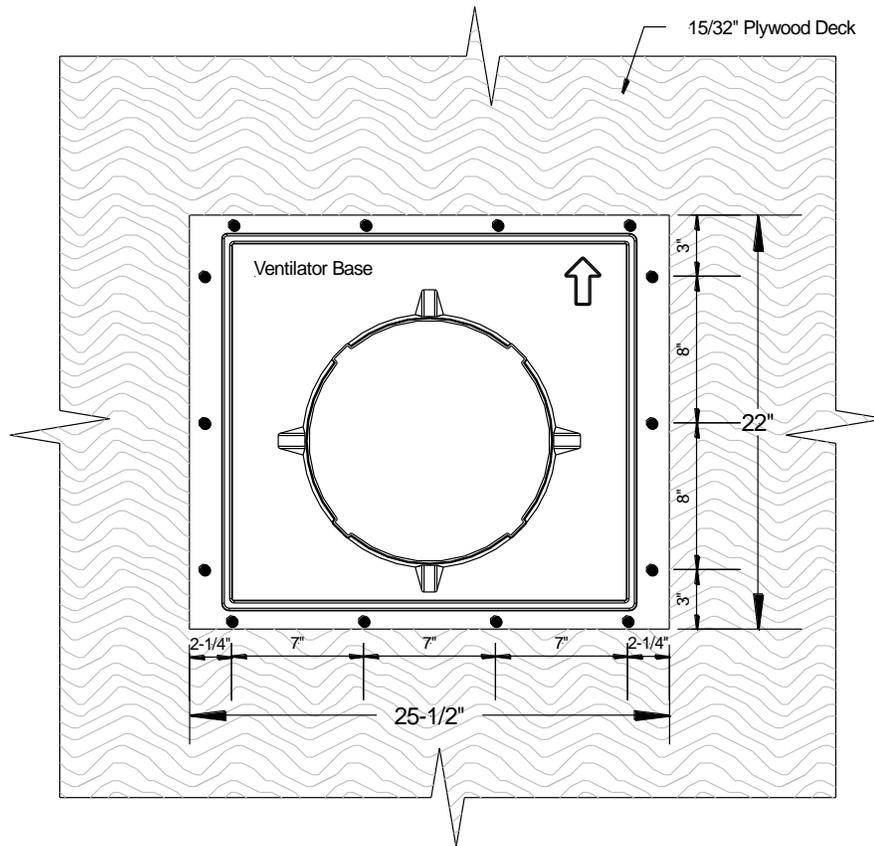
INSTALLATION INSTRUCTIONS

General Installation Requirements:

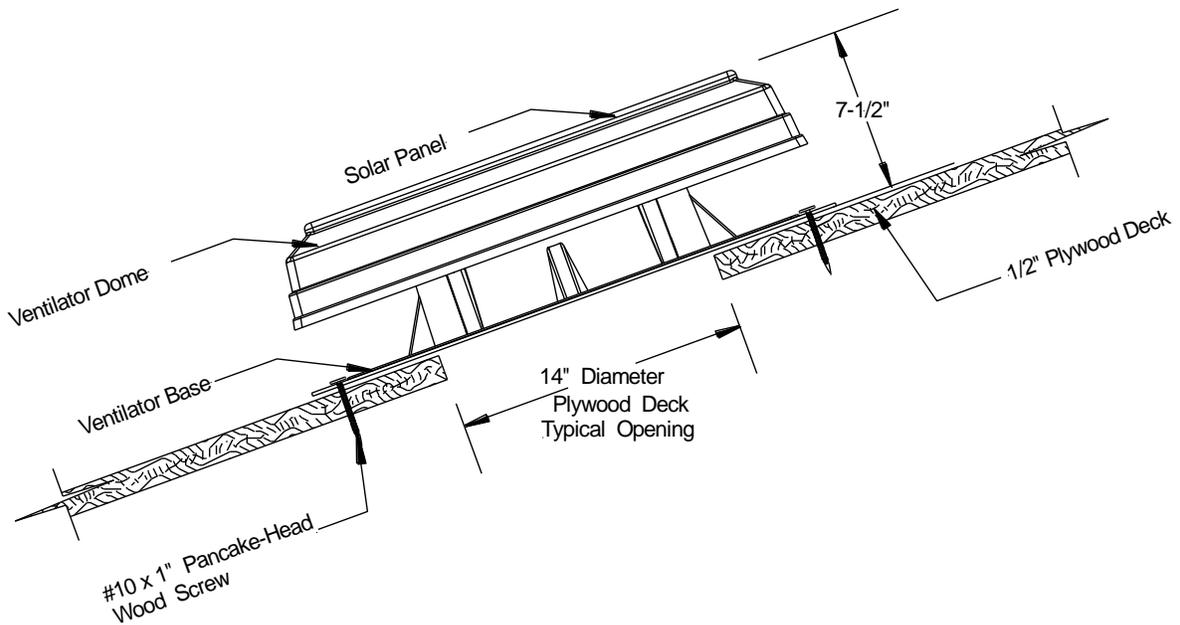
All requirements specified in the International Residential Code (IRC) and the International Building Code (IBC) shall be satisfied. The manufacturer's installation instructions shall be followed unless otherwise specified by this product evaluation.

Roof Deck: The roof deck shall consist of plywood wood structural panels with a minimum nominal thickness of $\frac{1}{2}$ " plywood ($\frac{1\frac{5}{32}}$ " plywood is acceptable).

Installation: A base section and section view detail are provided at the end of this report. Locate the attic vent on the roof as specified by the product manufacturer. Mark a 16 $\frac{1}{2}$ " diameter circle on the roof as specified by the product manufacturer. Based on the manufacturer's guidance using the mark as a guide, cut and remove the shingles inside the circle to expose the roof deck. Use the center of the circle to locate and mark a 14" diameter circle. Using the mark as a guide, cut a hole in the roof deck. Be very careful to not cut through any roof framing members (rafters or trusses). Lift the shingles located directly around the cut hole. Slide the attic vent flange underneath the shingles and underlayment and position the attic vent so that it is centered with the attic hole. Follow the manufacturer's instructions for proper vent placement. The flange of the vent is secured to the wood structural panel roof deck with a total of fourteen (14) minimum No. 10 x 1 $\frac{1}{2}$ " Phillips Flat Head wood screws. The screws shall be located 2 inches from the corners and spaced a maximum of 9 inches on center thereafter. There shall be four (4) screws on the long sides and three (3) screws on the short side. The fasteners shall be long enough to penetrate the roof vent flange and completely through the roof deck. Apply weatherproofing as specified by the product manufacturer.



BASE ATTACHMENT PLAN VIEW



SECTION VIEW

Note: The manufacturer's installation instructions shall be on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC); the International Building Code (IBC); and the Texas Revisions.