

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION

Effective May 1, 2012

RV-68

*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 **May 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.

Omni Series OSV-40 Solar Vent and Panel, manufactured by

Lomanco, Inc.
2101 West Main Street
Jacksonville, AR 72076
(501) 982-6511

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

The Omni Series OSV-40 is a self-flashing roof mounted solar-powered attic exhaust vent. The vent consists of a one piece drawn dome, one piece drawn base, and one piece molded continuous rain shield/motor mount. The motor mount/rain shield is attached to base with screws, and the dome is attached to the base with locking studs and 10-32 lock nuts. A double row of screen is secured in place around the rain shield and covers the entire vent opening. A 40 Watt solar panel is included with mounting brackets for roof mounted installation.

LIMITATIONS

Design Wind Pressure:

Attic Vent Model	Allowable Design Pressure (psf)
Solar Power Vent	-170
Solar Panel	-200

Roof Deck: The roof deck shall be minimum nominal $\frac{3}{8}$ " thick wood structural panel.

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 be minimum nominal $\frac{3}{8}$ " thick wood structural panel.

General Installation Requirements: Locate the attic vent on the roof as specified by the product manufacturer. Using the manufacturer's template as a guide, you carefully cut a 16" diameter hole in the roof. Do 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.

Solar Vent: The flange of the solar vent is secured to the roof deck with minimum 11 gauge, (0.120" diameter), smooth shank galvanized roofing nails, $\frac{3}{8}$ " head diameter, minimum $1\frac{1}{2}$ " length. The nails shall be located 1" from each corner and spaced 8" o.c. thereafter around the perimeter. All fasteners shall be long enough to penetrate through the roof deck. Apply weatherproofing as specified by the product manufacturer.

Solar Panel: The solar panel mounting brackets are attached to the deck with No. 8 x $1\frac{5}{8}$ " long wood screws provided by the manufacturer. The screws are located $2\frac{3}{8}$ " from one end of the bracket, $3\frac{1}{4}$ " from the opposite end of the bracket and two in the center for a total of four (4) in each bracket.

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.