

Product Evaluation

RV68 | 0220

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

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.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: RV-68

Effective Date: February 1, 2020

Re-evaluation Date: February 2024

Product Name: Omni Series OSV-40 Solar Vent and Panel

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

General 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 the 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 Slope: The roof vent may be installed on roofs with a minimum slope of 2:12 and a maximum slope of 12:12.

Installation:

General Installation Requirements: All requirements specified in the IRC and the IBC must be satisfied. The manufacturer's installation instructions must be followed unless otherwise specified by this product evaluation.

Roof Deck: The roof deck must be minimum nominal 3/8" thick wood structural panel (plywood or OSB).

General: Locate the attic vent on the roof as specified by the product manufacturer. Using the manufacturer's template as a guide, 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, 3/8" head diameter, minimum 1-1/2" length. The nails must be located 1" from each corner and spaced 8" o.c. thereafter around the perimeter. All fasteners must be long enough to penetrate completely 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 1-5/8" long wood screws provided by the manufacturer. The screws are located 2-3/8" from one end of the bracket, 3-1/4" from the opposite end of the bracket and two in the center for a total of four (4) in each bracket.

Note: Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and IBC.