



Product Evaluation

RV78 | 0817

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-78

Effective Date: July 1, 2017

Re-evaluation Date: July 2021

Product Name: Static and Motorized Roof Vents

Manufacturer: Air Vent, Inc.
4117 Pinnacle Point Drive
Suite 400
Dallas, TX 75211
214-630-7377

General Description:

The static roof vents are available as slant back, square, or round models. The motorized roof vents are available as round models. The vents may be steel, aluminum, or plastic construction. The vents are available in several colors. This evaluation report includes the following static and motorized roof vents.

The RVP61 is a square top style plastic roof vent with a base flange size of 17.0" by 17.9" constructed out of rigid impact resistant polypropylene material. The vent incorporates an integrally molded insect screen and pre-formed nail holes for fastening to the roof deck. The vent provides a net area of 61 square inches.

Model Number	Type Vent
UH50	Static, Aluminum, Square
550	Static, Aluminum, Square
SQP61	Static, Plastic, Square
SLP61	Static, Slant Back, Plastic
SLP150	Static, Slant Back, Plastic
SLA	Static, Slant Back, Aluminum
RVA40	Static, Square, Aluminum
RVG40	Static, Square, Steel
RVA50	Static, Square, Aluminum
RVG50	Static, Square, Steel
RVA51	Static, Square, Aluminum
RVG51	Static, Square, Steel
RVG53	Static, Square, Steel
RVG55	Static, Square, Steel
RVP61	Square Top, Plastic
B144	Static, Round, Steel
BR26	Motorized, Round, Steel

Product Dimensions:

Model Number	Base	Height
UH50	16.00" x 16.00"	3.46"
550	15.50" x 15.50"	3.80"
SQP61	17.00" x 17.94"	4.47"
SLP150	24.83" X 21.50"	7.82"
SLP61	16.50" x 19.50"	5.00"
SLA	20.40" x 15.90"	4.90"
RVA40	16.80" x 14.00"	4.20"
RVG40	16.80" x 14.00"	4.20"
RVA50	16.80" x 18.80"	4.10"
RVG50	16.80" x 18.80"	4.10"
RVA51	16.80" x 15.00"	4.00"
RVG51	16.80" x 15.00"	4.00"
RVG53	15.00" x 11.80"	6.30"
RVG55	20.40" x 15.90"	5.00"
RVP61	17.00" x 17.90"	4.06"
B144	24.00" x 24.00"	8.40"
BR26	24.00" x 24.00"	8.40"

Limitations:**Design Pressures:**

Model	Design Pressure
UH50	-90 psf
550	-90 psf
SQP61	-90 psf
SLP61	-90 psf
SLP150	-60 psf (3/8" plywood roof deck); -150 psf (7/16" OSB roof deck)
SLA	-130 psf
RVA40	-80 psf
RVG40	-80 psf
RVA50	-130 psf
RVG50	-130 psf
RVA51	-90 psf
RVG51	-90 psf
RVG53	-90 psf
RVG55	-130 psf
RVP61	-130 psf
B144	-230 psf
BR26	-230 psf

Roof Slope: The roof vents must be installed on roofs with a minimum slope of 3:12 and a maximum slope of 12:12.

Installation:**General Instructions:**

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

Roof Deck: The roof deck must consist of the following:

- B144, BR26. Plywood deck with a minimum nominal thickness of 15/32".
- SLP150. OSB deck with a minimum nominal thickness of 7/16".
- UH50, 550, SLA, RVA40, RVG40, RVA50, RVG50, RVA51, RVG51, RVG53, RVG55, SQP61, SLP61, SLP150, RVP61 Plywood deck with a minimum nominal thickness of 3/8".

Attachment of Roof Vent to Roof Deck (All except SLP150): The base of the vent shall be attached to the deck with minimum smooth shank roofing nails with a head diameter of 0.361", shank diameter of 0.115" and length of 1-1/4". The fasteners must be located 1" from each corner and one at the mid span of each side. The fasteners must be long enough to penetrate into and through the roof deck.

Attachment of Roof Vent to Roof Deck (SLP150 only): The base of the vent must be attached to the deck with minimum 1 1/2" long, 12 gauge smooth shank roofing nails. Eleven fasteners are required, located in the molded holes in the vent base. The fasteners must be long enough to penetrate into and through the roof deck.

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