

## Product Evaluation

RV78 | 0420

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:** April 1, 2020

**Re-evaluation Date:** March 2024

**Product Name:** Static and Motorized Roof Vents

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

**Marketed by:** Air Vent  
Tri-Built Materials Group, LLC

### 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.

| Model Number | Type Vent                |
|--------------|--------------------------|
| UH50         | Static, Aluminum, Square |
| 550          | Static, Aluminum, Square |
| SQP61        | Static, Plastic, Square  |

| Model Number | Type Vent                    |
|--------------|------------------------------|
| 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      |
| ASR-HPML     | Motorized, Round, Steel      |
| HE-15        | Motorized, Round, Steel      |
| PC15BK       | Motorized, Round, Steel      |
| RV26WWMT     | Motorized, Round, Steel      |
| RV28         | Motorized, Round, Steel      |

**Note:** Air Vent manufactures roof vents that are marketed by Tri-Built Material Group, LLC. The vents are exactly the same as the Air Vent models. The Air Vent name will be on the box of the Tri-Built Materials Group, LLC products.

### Tri-Built Equivalencies

| Air Vent Model Number | Tri-Built Part Numbers |        |        |        |        |        |
|-----------------------|------------------------|--------|--------|--------|--------|--------|
| UH50                  |                        |        |        |        |        |        |
| 550                   |                        |        |        |        |        |        |
| SQP61                 |                        |        |        |        |        |        |
| SLP61                 | 556330                 | 556331 | 557436 | 557426 |        |        |
| SLP150                |                        |        |        |        |        |        |
| SLA                   | 631811                 | 631812 | 631814 | 556325 | 556326 | 557406 |
| RVA40                 |                        |        |        |        |        |        |
| RVG40                 |                        |        |        |        |        |        |
| RVA50                 |                        |        |        |        |        |        |
| RVG50                 |                        |        |        |        |        |        |
| RVA51                 | 556327                 | 556328 | 557407 | 557408 |        |        |
| RVG51                 | 557416                 | 557417 | 557418 | 557419 |        |        |
| RVG53                 |                        |        |        |        |        |        |

**Tri-Built Equivalencies (Continued)**

| <b>Air Vent Model Number</b> | <b>Tri-Built Part Numbers</b> |        |        |        |  |  |
|------------------------------|-------------------------------|--------|--------|--------|--|--|
| RVG55                        | 557412                        | 557413 | 557414 | 557415 |  |  |
| RVP61                        |                               |        |        |        |  |  |
| B144                         |                               |        |        |        |  |  |
| BR26                         | 557420                        | 557421 | 557422 |        |  |  |
| ASR-HPML                     |                               |        |        |        |  |  |
| HE-15                        |                               |        |        |        |  |  |
| PC15BK                       |                               |        |        |        |  |  |
| RV26WWMT                     |                               |        |        |        |  |  |
| RV28                         |                               |        |        |        |  |  |

**Product Dimensions:**

| <b>Model Number</b> | <b>Base</b>     | <b>Height</b> |
|---------------------|-----------------|---------------|
| 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"         |
| ASR-HPML            | 24.00" x 24.00" | 8.40"         |
| HE-15               | 24.00" x 24.00" | 8.40"         |
| PC15BK              | 24.00" x 24.00" | 8.40"         |
| RV26WWMT            | 24.00" x 24.00" | 8.40"         |
| RV28                | 24.00" x 24.00" | 9.50"         |

**Limitations:**

**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.

**UH50, 550, SQP61, RVA51, RVG51, RVG53**

**Design Pressure:** -90 psf

**Roof Deck:** Minimum 3/8" plywood deck

**Attachment of Roof Vent to Roof Deck:** The base of the vent must be attached to the roof 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.

**SLP61**

**Design Pressure:** -200 psf

**Roof Deck:** Minimum 3/8" OSB or plywood deck

**Attachment of Roof Vent to Roof Deck:** The base of the vent must be attached to the roof 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.

**SLP150**

**Design Pressure:** -60 psf (**Roof Deck:** Minimum 3/8" plywood deck)

**Design Pressure:** -150 psf (**Roof Deck:** Minimum 7/16" OSB deck)

**Attachment of Roof Vent to Roof Deck:** The base of the vent must be attached to the roof 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.

**SLA**

**Design Pressure:** -130 psf

**Roof Deck:** Minimum 3/8" OSB or plywood deck

**Attachment of Roof Vent to Roof Deck:** The base of the vent must be attached to the roof 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.

**RVA40**

**Design Pressure:** -80 psf

**Roof Deck:** Minimum 3/8" plywood deck

**Attachment of Roof Vent to Roof Deck:** The base of the vent must be attached to the roof 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.

**RVG40**

**Design Pressure:** -300 psf

**Roof Deck:** Minimum 3/8" OSB or plywood deck

**Attachment of Roof Vent to Roof Deck:** The base of the vent must be attached to the roof 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.

**RVA50, RVG50, RVP61**

**Design Pressure:** -130 psf

**Roof Deck:** Minimum 3/8" plywood deck

**Attachment of Roof Vent to Roof Deck:** The base of the vent must be attached to the roof 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.

**RVG55**

**Design Pressure:** -250 psf

**Roof Deck:** Minimum 3/8" OSB or plywood deck

**Attachment of Roof Vent to Roof Deck:** The base of the vent must be attached to the roof 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.

**B144, BR26, ASR-HPML, HE-15, PC15BK, RV26WWMT, RV28**

**Design Pressure:** -250 psf

**Roof Deck:** Minimum 3/8" OSB or plywood deck

**Attachment of Roof Vent to Roof Deck:** The base of the vent must be attached to the roof 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 3" 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.

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