

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

RV-23

Effective June 1, 2005

Revised July 1, 2006

*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 shall be subject to reevaluation 3 years after the effective date.*

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.

Roof Ventilators manufactured by

Air Vent, Inc.
4117 Pinnacle Point Drive
Suite 400
Dallas, Texas 75211
(214) 630-7377

but sold under the private label **Owens Corning Ventsure®** are accepted in designated catastrophe zones along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The static vents indicated in this product evaluation consist of slant back vents, ridge vents, and square vents varying in size and color. The model and type are as shown below.

Products covered under this evaluation are as follows:

<u>MODEL</u>	<u>TYPE</u>	<u>MODEL</u>	<u>TYPE</u>
Air Vent 400*	Static Roof Vent	Air Vent 505a*	Static Roof Vent
Air Vent 405*	Static Roof Vent	Air Vent 507*	Static Roof Vent
Air Vent 405a*	Static Roof Vent	Air Vent 550*	Static Roof Vent
Air Vent 407*	Static Roof Vent	Air Vent 705*	Static Roof Vent/Plastic
Air Vent 450*	Static Roof Vent	Air Vent 650r*	Ridge Vent/Metal
Air Vent 500*	Static Roof Vent	Air Vent 690**	Off Ridge Vent
Air Vent505*	Static Roof Vent	Air Vent 754 BK	Shingle Over Ridge Vent/Plastic
Air Vent 760BK*	Shingle Over Ridge Vent/Plastic	Owens Corning Ventsure	Shingle Over Ridge Vent

* Suffixes on the above model numbers specify 1) Color - such as Black, Light Grey, etc.; 2) Construction Material – such as Galvanized, Aluminum, etc.; 3) Pack Quantity – such as 61 is 6 parts per carton.

** May be sold with no suffix or with a G suffix, but both are galvanized construction.

PRODUCT DESCRIPTION (Continued)

General Requirements: (Air Vent Model Nos. 400/500, 405/505, 405a/505a, 407/507, 450/550, 650Gv/650r, 690, 705)

- **Shank Diameter:** The shank diameter of roofing nails shall be a minimum of 0.120 inch.
- **Specifications:** Roofing nails shall meet the specifications of FF-N-105B (Type II, Style 20) or ASTM F 1667.
- **Deck:** The roof deck shall consist of wood structural panels with a minimum thickness of $\frac{7}{16}$ inch or solid wood planks, minimum Spruce Pine Fir (SPF), with a minimum nominal thickness of 1 inch.

General Requirements: (Air Vent Model No, 754, 760, and Owens Corning Ventsure).

- **Shank Diameter (Screws):** The shank diameter of wood screws shall be a minimum of 0.138 inch.
- **Shank Diameter (Nails):** The shank diameter of roofing nails shall be a minimum of 0.120 inch.
- **Specifications:** Wood screws shall conform to ANSI/ASME Standard B18.6-1981. Roofing nails shall conform to FF-N-105B (Type II, Style 20) or ASTM F 1667.
- **Deck:** The roof deck shall consist of wood structural panels with a minimum thickness of $\frac{7}{16}$ inch or solid wood planks, minimum Spruce Pine Fir (SPF), with a minimum nominal thickness of 1 inch.

LIMITATIONS

Design Wind Pressure: -72 psf

For All Applications: The Air Vent roof ventilators shall be installed on a minimum roof slope of 3:12. The vents with model numbers 650Gv/650r shall be installed on roofs with a maximum slope of 7:12. The vents with model numbers 754 and 760, and Ventsure shall be installed on roofs with a maximum slope of 12:12.

INSTALLATION INSTRUCTIONS

General Installation Instructions:

The manufacturer's installation instructions and this product evaluation must be followed.

Attachment of Vent: (Air Vent Model Nos. 400/500, 405/505, 405a/505a, 407/507, 450/550, 650Gv/650r, 690, 705).

- Slide vent up and under shingles. Remove interfering shingle nails.
- Nail roof vent in place. Installation should have shingles over the roof vent base at both sides and on top. Vent base should lie on top of shingles on downward side. Roofing cement should be applied to all shingles; all shingle edges, and nail heads.
- Roofing nails shall be of adequate length to penetrate $\frac{3}{4}$ inch into or through roof sheathing.
- The number and location of roofing nails shall be as indicated on drawings included in this evaluation.

Attachment of Vent: (Air Vent Model Nos. 754, 760, and Owens Corning Ventsure) – Using Wood Screws

- Screw roof vent in place using the pre-molded fastener locations indicated on vent.
- Wood Screws shall be of adequate length to penetrate $\frac{3}{4}$ inch into or through roof sheathing. Maximum spacing shall be $9\frac{1}{4}$ inches with one screw at each corner.
- The number and location of fasteners shall be as indicated on drawings included in this evaluation.

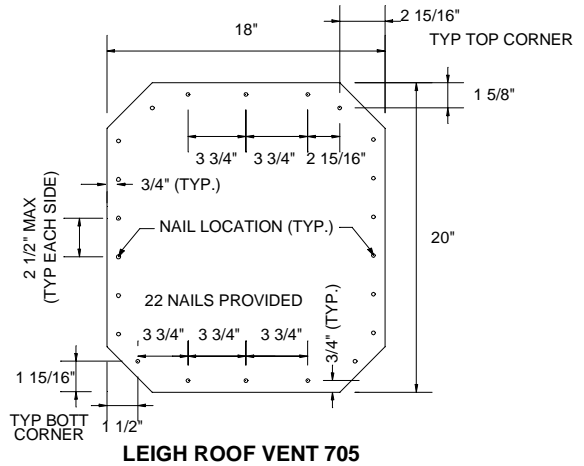
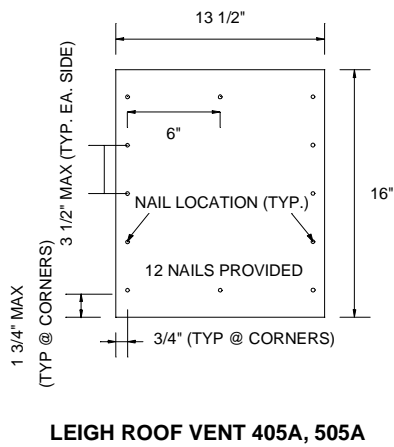
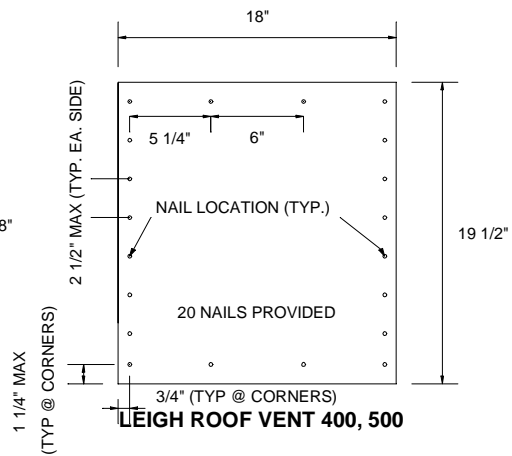
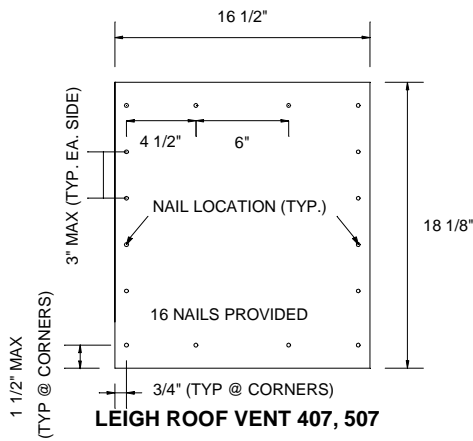
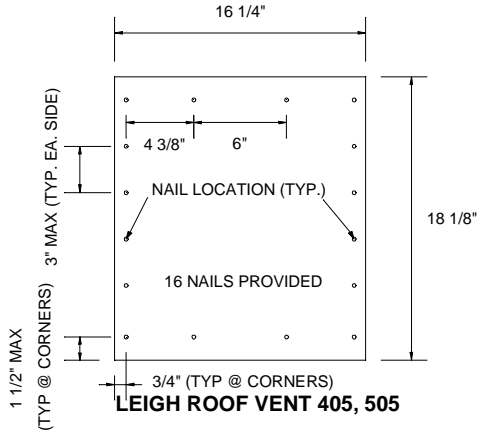
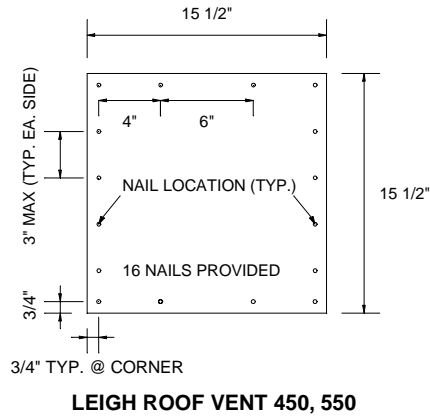
Attachment of Vent: (Air Vent Model Nos. 754, 760, and Owens Corning Ventsure) – Using Roofing Nails

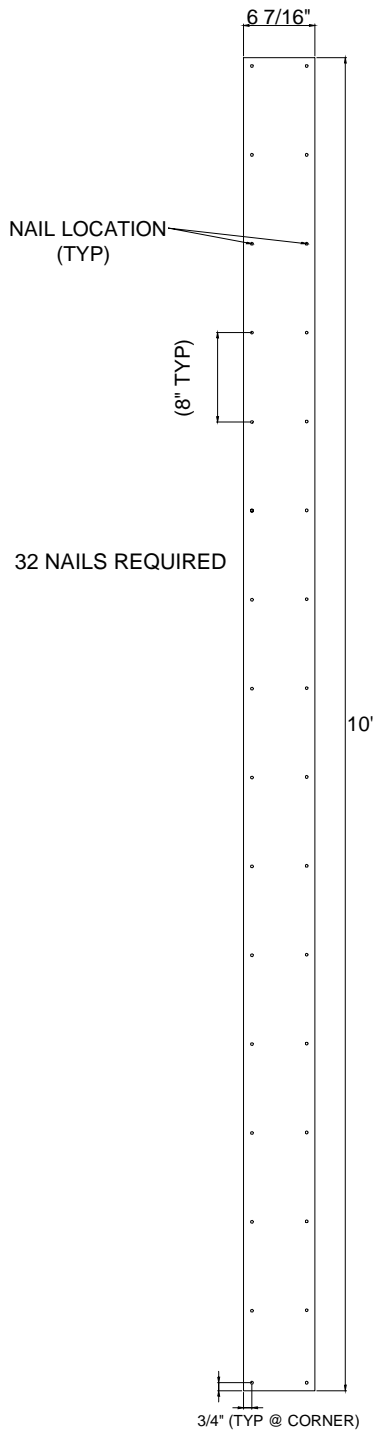
- Attach vent at pre-molded fastener locations starting at end of vent using 2-inch minimum corrosion resistant roofing nails.

INSTALLATION INSTRUCTIONS

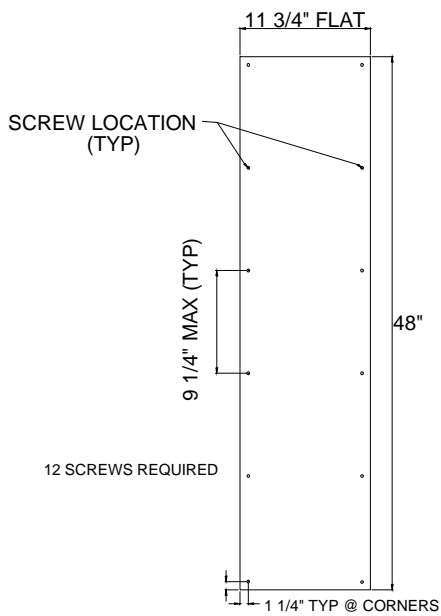
- Install cap shingles with 2 inch minimum corrosion resistant roofing nails using nail line indicated on vent. The roofing nails must penetrate through the cap shingles and ridge vent into the deck. Overlap end $\frac{1}{2}$ inch with roofing. Caulk ends of vent.
- Roofing nails shall be of adequate length to penetrate $\frac{3}{4}$ inch into or through roof sheathing. Maximum spacing shall be $9\frac{1}{16}$ inches with one nail at each corner.
- The number and location of fasteners shall be as indicated on drawings included in this evaluation.

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

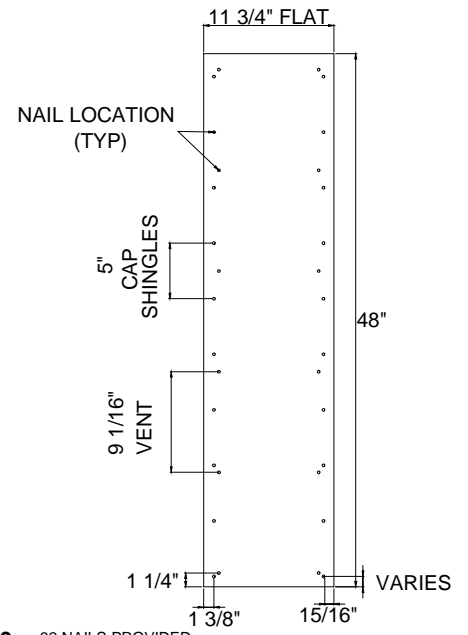




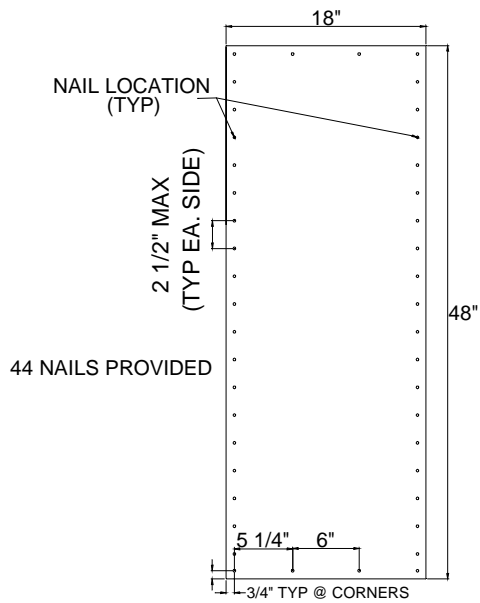
LEIGH ROOF VENT 650R



**LEIGH ROOF VENT 754, 760,
 AND VENTSURE
 (USING SCREWS)**



**LEIGH ROOF VENT 754, 760,
 AND VENTSURE
 (USING NAILS)**



LEIGH ROOF VENT 690G