



# Product Evaluation

RV47 | 0317

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-47 **Effective Date:** March 1, 2017  
**Re-evaluation Date:** March 2021

**Product Name:** VentSure® 4 Foot Strip Heat & Moisture Ridge Vent, VentSure® RidgeCat™ Rolled Ridge Vent, and VentSure® Sky Runner™ LTE™ Rolled Ridge Vent

**Manufacturer:** Owens Corning  
One Owens Corning Parkway  
Toledo, OH 43659  
Telephone: 419-248-7060

## General Description:

**VentSure® 4 Foot Strip Heat & Moisture Ridge Vent:** Owens Corning VentSure 4-foot strip ridge vent is molded from high density polypropylene. The vent is 15" wide by 48" long. The ridge vent incorporates a flat louver design for greater air flow and to facilitate debris removal from the vent. The ridge vent includes a corrugated ridge line that increases its strength and flexibility.

**VentSure® RidgeCat™ Rolled Ridge Vent:** Owens Corning VentSure® RidgeCat™ Rolled Ridge Vent is a nylon mesh vent manufactured with a non-woven filter material affixed to the vent. The vent is 11" wide by 3/4" tall by 20' long, molded with a non-woven filter material.

**VentSure® Sky Runner™ LTE™ Rolled Ridge Vent:** Owens Corning Sky Runner™ LTE™ Rolled Ridge Vent is molded from flexible polypropylene. The vent is 14-3/8" wide by 3/4" tall by 30' long. The ridge vent features a staggered front wall design to increase flexibility and an external baffle to enhance wide-driven rain resistance.

**Limitations:****Design Wind Pressure:**

Assembly	Product	Allowable Design Pressure (psf)
1	VentSure® 4 Strip Heat & Moisture Ridge Vent	-150
2	VentSure® 4 Strip Heat & Moisture Ridge Vent	-90
3	VentSure® RidgeCat™ Rolled Ridge Vent	-187.5
4	VentSure® Sky Runner™ LTE™ Rolled Ridge Vent	-300

**Deck:** The roof deck must consist of wood structural panels with a minimum thickness of 7/16" thick OSB or 15/32" plywood or board decking (nominal 1" thick, not less than 4" wide and not more than 6" wide, Douglas Fir-Larch).

**General Installation Requirements:**

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

**Installation Instructions:****VentSure® 4 Foot Strip Heat & Moisture Ridge Vent:**

**Assembly 1:** The roof deck must consist of either wood structural panels or board decking. If wood structural panels are used, then the panels must be minimum 7/16" thick OSB. If board decking is used, then the board decking must be nominal 1" thick, not less than 4" wide and not more than 6" wide, Douglas Fir-Larch. Refer to the installation instructions in this evaluation report for the appropriate roof deck requirements.

**Fastening Requirements for Ridge Vent:**

The ridge vent features an interlocking feature for easy positioning and securement of individual vents. Galvanized, 2-1/2" long, 3/8" diameter head, ring-shank roofing nails must be used to fasten the ridge vent. There are 10 nails per each 4' vent section. After securing the vent, the cap shingles must be fastened with 2-1/2" long, 3/8" diameter head, ring-shank galvanized roofing nails. Fastening nails must penetrate through the asphalt shingles and the pre-drilled nail holes, which are integrated in each vent, and must penetrate completely through the roof sheathing or 3/4" into the board decking.

**Assembly 2:** The roof deck must consist of wood structural panels (plywood) with a minimum thickness of 15/32" or board decking (nominal 1" thick, not less than 4" wide, and not more than 6" wide, Douglas Fir-Larch).

**Fastening Requirements for Ridge Vent:**

The ridge vent features an interlocking feature for easy positioning and securement of individual vents. Galvanized, 2-1/2" long, 3/8" diameter head, ring-shank roofing nails must be used to fasten the ridge vent and cap shingles. There are 10 nails per each 4' vent section. Fastening nails must penetrate through the asphalt shingles and the pre-drilled nail holes, which are integrated in each vent, and must penetrate completely through the roof sheathing or 3/4" into the board decking.

**Roof Slope (Assembly 1 and 2):** The minimum roof slope for the vent system is 3:12, and the maximum roof slope is 16:12.

#### **VentSure® Ridge Cat™ Rolled Ridge Vent:**

**Assembly 3:** The roof deck must consist of wood structural panels or board decking. If wood structural panels are used, then the panels must be minimum 15/32" plywood. If board decking is used, then the board decking must be nominal 1" thick, not less than 4" wide and not more than 6" wide, Douglas Fir-Larch. Refer to the installation instructions in this evaluation report for the appropriate roof deck requirements.

#### **Fastening Requirements for Ridge Vent:**

Galvanized, 1-3/4" long, minimum 3/8" diameter head, ring shank nails must be used to fasten the ridge vent. The vent is fastened by placing nails approximately 1-1/2" from the edge and 2' o.c. into structural wood supports. Fastening nails must penetrate through the DuraRidge hip and ridge shingles and must penetrate completely through the roof sheathing or 3/4" into the board decking.

DuraRidge hip and ridge shingles are fastened through the top laminated piece with one fastener on each side placed 9" back from the exposed end and 1" from the side edge starting from the fixed edge of each shingle. All fasteners must be placed within the SureNail® Technology fastening area. See Figure A for installation detail.

**Roof Slope (Assembly 3):** The minimum roof slope for the vent system is 2:12 and the maximum roof slope is 18:12.

#### **VentSure® Sky Runner™ LTE™ Rolled Ridge Vent:**

**Assembly 4:** The roof deck must consist of either wood structural panels or board decking. If wood structural panels are used, then the panels must be minimum 7/16" OSB or 15/32" plywood. If board decking is used, then the board decking must be nominal 1" thick, not less than 4" wide, and not more than 6" wide, Douglas Fir-Larch. Refer to the installation instructions in this evaluation report for the appropriate roof deck requirements.

#### **Fastening Requirements for Ridge Vent:**

The ridge vent comes in 30' long rolls. Hot-dipped galvanized, 1-3/4" long, 3/4" diameter head, ring shank roofing nails must be used to fasten the ridge vent. Fasteners are to be installed at the molded nail locations spaced 6" on center on each side of the vent. After securing the vent, the cap shingles must be fastened with 1-3/4" long, 3/8" diameter head, ring shank galvanized roofing nails per the shingle manufacturer's installation instructions. Nails should be installed in the designated nailing zone embossed on the vent. Nails must penetrate through the asphalt shingles and the vent and must penetrate completely through the roof sheathing or 3/4" into the board decking.

**Roof Slope (Assembly 4):** The minimum roof slope for the vent system is 2:12 and the maximum roof slope is 16:12.

**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.

Appendix A – Installation Details

