

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RV-39

Effective May 1, 2007

*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.

SmartVent manufactured by

DCI Products
Clifton Industrial Park
100 Mill Street
Clifton Heights, PA 19018
Telephone: (800) 622-4455
www.dciproducts.com

is accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The SmartVent is a sectional, shingle over intake vent used to provide passive natural ventilation for an enclosed space in residential construction. The SmartVent is typically used for roof air intake along the eave. It may also be used for roof-to-wall ventilation, off-peak ventilation, valley ventilation, dormer ridge ventilation, hip ventilation, and mid-roof ventilation. The SmartVent is 10 1/2" wide. The vent is 3/4" thick at the opening edge and tapers to 1/16" in thickness. It is available in 36" long sections and comes in boxes of 18. The SmartVent has a hinged slot located 6 inches up from the thick edge. The hinge allows air to flow and gives the vent the ability to bend up, down, or lay flat, depending on the required installation. The SmartVent is manufactured of corrugated polyethylene with a weather guard of nylon/polyester fabric that is factory applied. The SmartVent can be installed by hand nailing with a hammer or by using a nail gun.

LIMITATIONS

Design Wind Pressure: -230 psf

Roof Slope: The SmartVent shall be installed on roofs with a minimum slope of 4:12 and a maximum slope of 15:12. The SmartVent roof vent can be installed on gable roofs and on hip roofs.

INSTALLATION INSTRUCTIONS

General: The SmartVent shall be installed in accordance with installation instructions published by DCI Products and this product evaluation report. If a conflict exists between the manufacturer's installation instructions and this product evaluation report, then the requirements specified in this evaluation report shall govern.

Roof Deck: The roof deck shall consist of plywood wood structural panels with a minimum thickness of $\frac{3}{8}$ ". A continuous slot shall be cut in the roof sheathing located 6 inches to 7 inches up from the drip edge.

Vent to Roof Deck: Lay the SmartVent even with the drip edge. The vent shall be secured to the roof deck with roofing nails (nominal 0.120" smooth shank diameter, 0.41" diameter head). Minimum $1\frac{3}{4}$ " long roofing nails shall be used. The fasteners shall be long enough to penetrate through the roof deck. The fasteners shall be applied along a nailing strip that is located along the top edge of the vent. The fasteners shall be spaced approximately 3 inches from each end of the vent and 12 inches on center along the nailing strip.

Underlayment: Underlayment shall be used as required. The underlayment shall be installed over the vent.

Shingles: The asphalt shingles shall be installed as required the adopted building specifications. The fasteners for the shingles shall penetrate through the vent and into and through the roof deck.

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), the International Building Code (IBC), and the Texas Revisions.