

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION

Effective May 1, 2014

RV-84

*The following product has been evaluated for compliance with the wind loads specified in **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **April 2018**.*

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.

VentSure Solar Attic Exhaust Fan manufactured by

Owens Corning Science and Technology
2790 Columbus Road
Granville, OH 43023
Telephone: (740) 321-6345

will be acceptable for use in designated catastrophe zones along the Texas Gulf Coast when installed in accordance to manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The VentSure® Solar Attic Exhaust fan is a self-flashing, roof mounted, solar powered attic fan designed for compositions (asphalt) shingle roof system or similar low-profile roofing materials. The unit features a solar panel directly mounted to the top of the fan shroud using tray and brackets. The VentSure® Solar Attic Exhaust fan is constructed of 20 gauge steel base flashing, configured with a square base flange and a cylindrical upright (the fan tunnel). On the top, locates a square shaped shroud that is fastened to the cylindrical upright of the base flashing with four 1" wide, 16 gauge galvanized steel brackets. Each bracket is attached to the upright with two 5mm rivets. Two motor mounting brackets are attached to the cylindrical upright of the base flashing with one 5mm rivet on each end and are secured to each other with two 1/4" bolts with nuts and washers. A 1/8" SS mesh screen is attached to and extended out of the upper section of the upright with three 3/16" X 0.5" self-tapping sheet metal screws. A solar panel is mounted on the top of the shroud. The panel is secured on a tray using hinges and brackets. The tray is in turn secured to the shroud and shroud brackets with four 1/4" X 1" bolts with locking nuts and washers.

LIMITATIONS

Design Wind Pressure:

Assembly	Roof Deck	Allowable Design Pressure (psf)
1	1 5/32" plywood	-165
2	7/16" OSB	-180

Deck: The roof deck shall consist of wood structural panels with a minimum thickness of $\frac{7}{16}$ inch OSB or $\frac{15}{32}$ inch plywood.

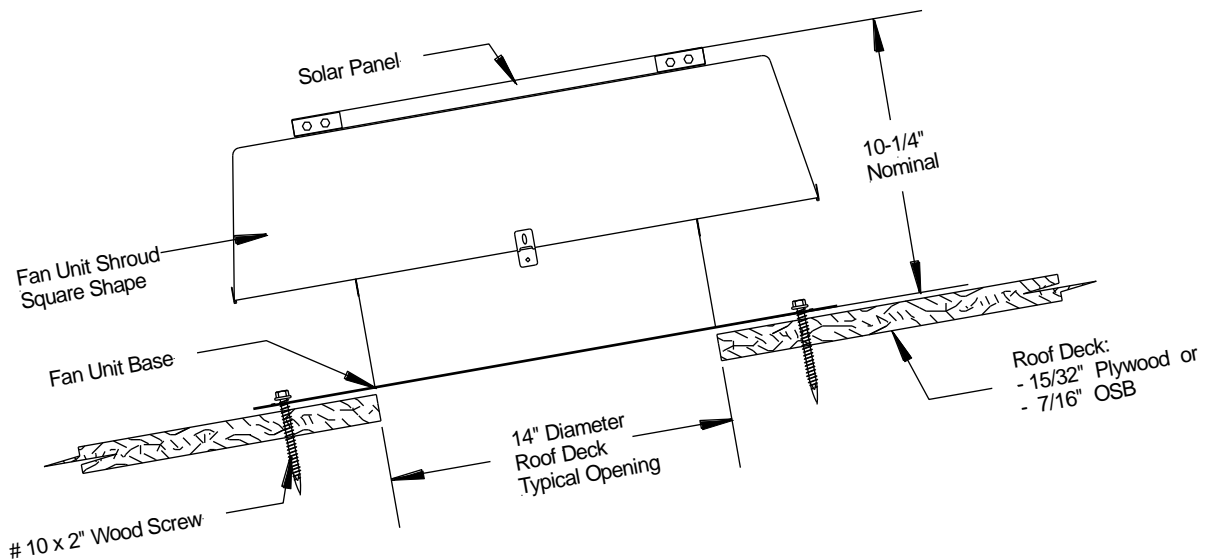
Roof Slope (All Assemblies): The minimum roof slope for the vent system is 3:12, and the maximum roof slope is 12:12

INSTALLATION INSTRUCTIONS

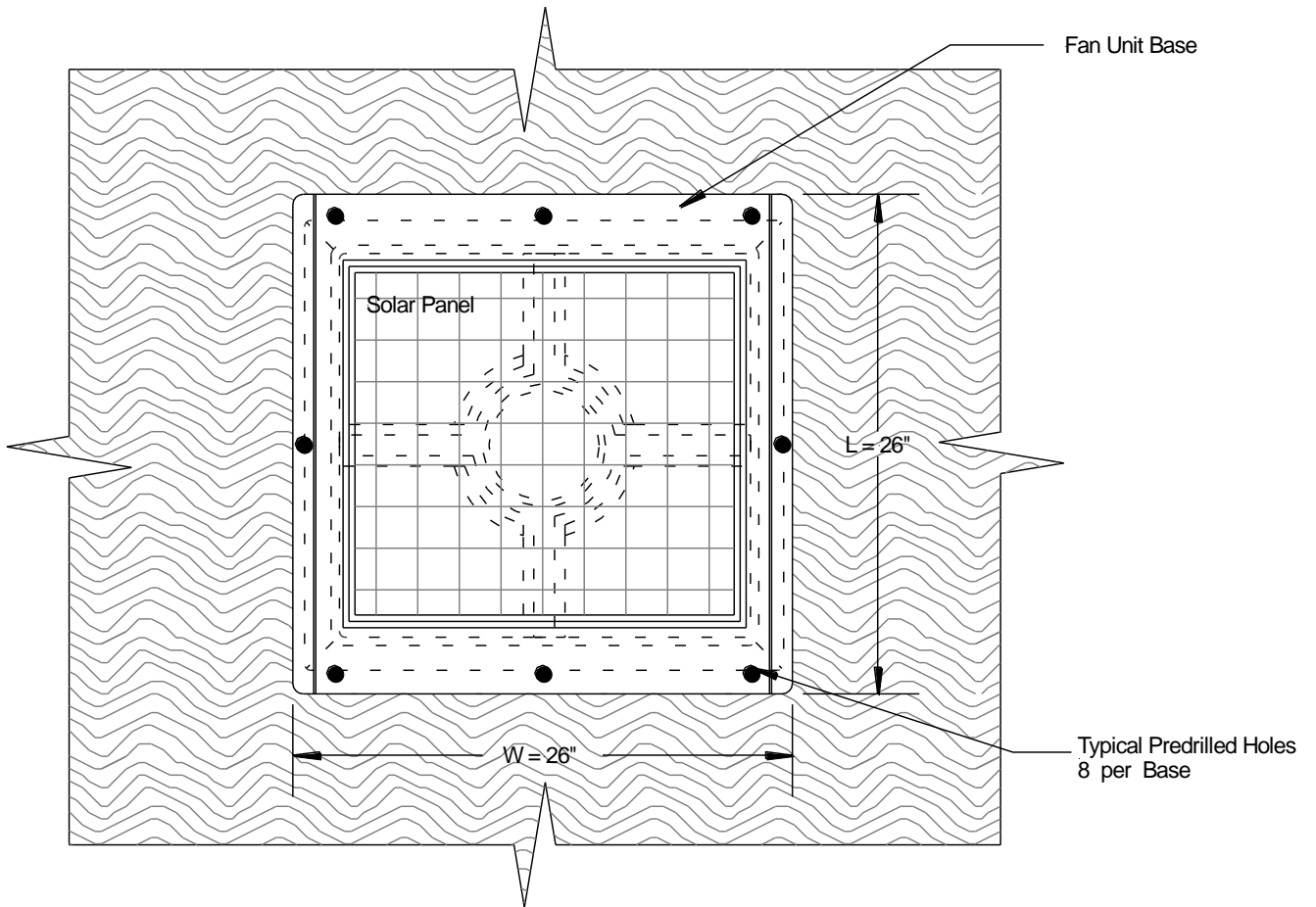
General Installation Requirements: All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC). All IRC/IBC requirements must be satisfied and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

Anchorage: The vent is fastened to the roof deck with eight No. 10 x 2" long stainless steel hex drive wood screws through the pre-punched holes in the flashing at corners and midspan of each side. The anchors shall penetrate the roof deck. Refer to figures below for installation.

For VentSure® Solar Attic Exhaust Fan



Fan Unit Assembly Section View



Fan Unit Assembly Plan View

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