

Product Evaluation

RV87 | 0920

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-87

Effective Date: September 1, 2020

Re-evaluation Date: September 2024

Product Name: Solar Star High Profile RM-1500 Roof Vent and Solar Star High Profile RM-2400 Roof Vents

Distributor: SOLATUBE
2210 Oak Ridge Way
Vista, CA 92081-8341
(888) 765-2882

General Description:

The vents are comprised of a steel base that form the flashing and vent stack. The base of the hood is constructed of plastic with a grille type underside for venting purposes. The top of the hood is constructed of steel and contains the solar panel, fan, and fan housing system. The top and bottom of the hood is secured with six (6) steel clips equally spaced around the diameter of the hood. The clips are secured with one (1) No. 8 x 1/2" long pan head screw with EPDM bonded sealing washers through each clip and into the vent.

Product Dimensions (RM-1500, RM-2400):

Component	Material	Size
Flashing 14"	Aluminized Steel; 0.028" thick	25.30" x 25.30" x 6"
Top Panel SS 14"	Aluminized Steel; 0.028" thick	23.37" diameter
Fan Grill, Solar Star 14"	Polypropylene; 0.120" thick	22.47" diameter

Vent Height:

RM-1500: 9.88"

RM-2400: 10.30"

Solar Panels:

RM-1500: 32 cell; 16W panel; 10.39" x 16.21"

RM-2400: 64 cell; 35W panel; 20.47" diameter

Limitations:

Design Pressure: -170 psf

Roof Slope: 1/4: 12 minimum; 12:12 maximum

Installation: The roof deck must be minimum nominal 1/2" plywood (15/32" plywood acceptable). The vents are secured to the roof deck using the flashing of the vent with minimum No. 10 x 2" long screws. The fasteners are located approximately 4" on center along the perimeter of the flashing through the pre-drilled holes in the flashing. The fasteners must be long enough to penetrate a minimum of 1/4" below the roof deck.

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