

Product Evaluation

RV118 | 1120

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-118

Effective Date: November 1, 2020

Re-evaluation Date: November 2024

Product Name: TopShield TSBIB-12, TSBEB-12, TSBIB-14, and TSBEB-14 Whirlybird Wind Turbines

Distributor: SRS Distribution, Inc.
7400 S. Hwy 121
McKinney, TX 75070
(469) 421-0616

General Description:

The TopShield TSBIB-12 and TSBEB-12 Whirlybird aluminum turbine roof ventilators have a 12" diameter base vent and 21 turbine vanes. The TopShield TSBIB-14 and TSBEB-14 Whirlybird aluminum turbine roof ventilators have a 14" diameter base vent.

Limitations:

Maximum Allowable Uplift Pressure for TSBIB-14 and TSBEB-14: -100 psf

Maximum Allowable Uplift Pressure for TSBIB-12 and TSBEB-12: -175 psf

For All Applications: The roof slope must be a minimum 2:12. The vari-pitch base adjusts to 12:12 roof pitch.

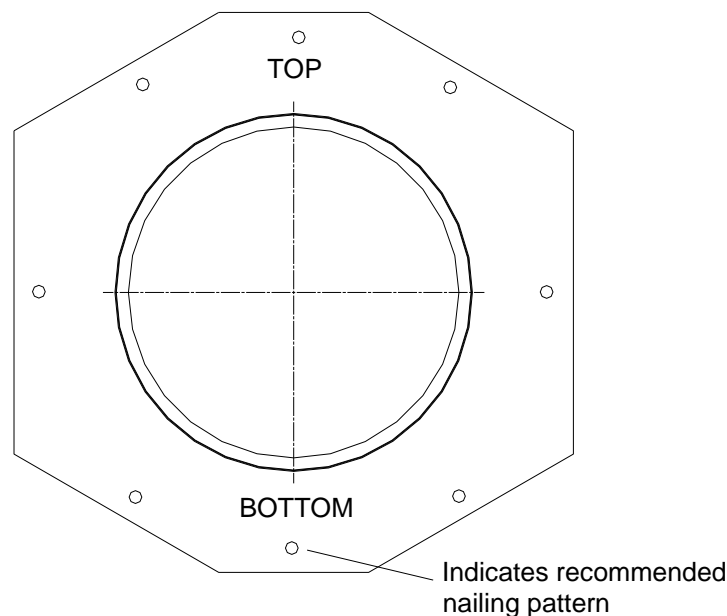
Installation:

General Installation Instructions: All requirements specified in the IRC and the IBC must be satisfied and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

Roof Deck: The roof deck for TSBIB-12 and TSBEB-12 roof vents must consist of plywood with a minimum thickness of 1 1/32" or OSB with minimum thickness of 3/8". The roof deck for TSBIB-14 and TSBEB-14 roof vents must consist of wood structural panels (plywood or OSB) with a minimum thickness of 7/16".

TSBIB-12 and TSBEB-12 Turbines: The turbine vents are applied with a layer of asphalt roof cement or equivalent approximately 1/8" deep and 4" wide, which is used to seal the vent to the underlayment and the shingles.

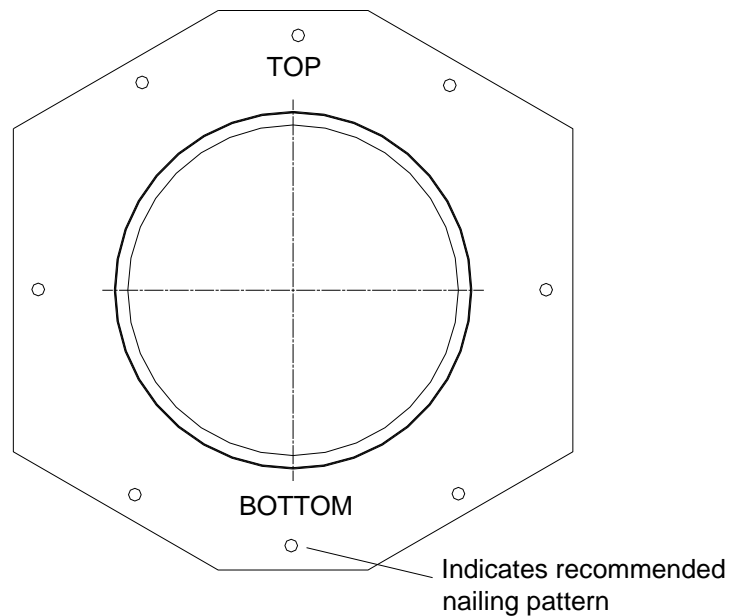
Anchorage: The turbine base must be attached with a total of eight (8) 1-3/4" long x 0.120" diameter x 3/8" head barbed shank roofing nails spaced 1" from the base edge. The base shape is octagonal with one fastener located approximately midspan of each straight edge. The elbow is attached to the base with three (3) #12 x 3/4" hex washer head screws. Asphalt based roofing mastic must be applied from the dome base to the wood decking.



WhirlyBird Turbine Base
TSBIB-12 and TSBEB-12

TSBIB-14 and TSBEB-14 Turbines: The turbine vents are applied with a layer of asphalt roof cement or equivalent approximately 1/8" deep and 4" wide, which is used to seal the vent to the underlayment and the shingles.

Anchorage: The turbine base must be attached with a total of eight (8) 1-3/4" long x 0.120" diameter x 3/8" head barbed shank galvanized roofing nails spaced 1" from the base edge. Base shape is octagonal with one fastener located approximately midspan of each straight edge. The elbow is attached to the base with three (3) #12 x 3/4" hex washer head screws. Asphalt based roofing mastic must be applied from the dome base to the plywood decking.



WhirlyBird Turbine Base
TSBIB-14 and TSBEB-14 Turbines

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.