EVALUATION REPORT Number: 829

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TILEVENT™ ALUMINUM HIP AND RIDGE SEAL FLASHING AND COPPER ROLL ROOF VENTILATION

CSI Section:
07 72 26 Ridge Vents

1.0 RECOGNITION

TRA Snow & Sun, Inc.'s TileVent™ is a perforated, flexible material intended for use with and covered by concrete or clay tile roof coverings. TileVent™ products recognized in this report have been evaluated for roof-flashing and ventilation when installed as part of a code complying clay or concrete tile roof. The structural performance, physical characteristics, and roof assembly fire classification with the TileVent™ complies with the intent of the provisions of the following codes and regulations:

- 2021, 2018, and 2015 International Building Code® (IBC)
- 2021, 2018, and 2015 International Residential Code® (IRC)

2.0 LIMITATIONS

Use of TRA Snow & Sun, Inc.'s TileVent™ Aluminum Hip and Ridge Seal Flashing and Copper Roll Roof Ventilation recognized in this report is subject to the following limitations:

2.1 TileVent™ shall be installed in accordance with the applicable code, the manufacturer's published installation instructions, and this report. Where there is a conflict, the most restrictive requirements shall govern.

2.2 The supporting structure shall be designed to support the loads and is beyond the scope of this report.

2.3 TileVent™ shall be completely covered by the roof tiles.

2.4 The TileVent™ Aluminum Hip and Ridge Seal Flashing and Copper Roll Roof Ventilation recognized in this report are manufactured in American Fork, Utah.

3.0 PRODUCT USE

3.1 General. The TileVent™ Aluminum Hip and Ridge Seal Flashing and Copper Roll Roof Ventilation are perforated, flexible materials serving as a component of the ventilation system for enclosed attic and rafter spaces.

3.2 Roof Classification. The TileVent™ Aluminum Hip and Ridge Seal Flashing and Copper Roll Roof Ventilation may be used as part of a Class A, B, or C clay or concrete tile roof assembly.

3.3 Installation General.

3.3.1 TileVent™ Aluminum Hip and Ridge Seal Flashing and Copper Roll Roof Ventilation shall be installed when the minimum ambient temperature is 40 ºF (4.5 ˚C).

3.3.2 Installation in accordance with the 2021 and 2018 IBC or IRC: Clay and Concrete Roof Tiles shall be installed in accordance with IBC Section 1507.3 or IRC Section R905.3, including the attachment requirements of IBC Section 1507.3.7 or IRC Section R905.3.7, as applicable. Underlayment shall conform to IBC Section 1507.1.1 or IRC Section R905.1.1.

3.3.3 Installation in accordance with the 2015 IBC or IRC: Clay and Concrete Roof Tiles shall be fastened in accordance with the code specific requirements in Table 1 of this report using *The Concrete and Clay Roof Tile Installation Manual for Moderate Climate Regions*, dated July 2015, published by the Tile Roofing Institute and the Western States Roofing Contractors Association. The July 2015 TRI manual is associated with ER-2015 in the UES Evaluation Report Directory and is available for download at www.uniform-es.org.

TABLE 1 – ATTACHMENT DESIGN

Applicable Code	Criteria for Applicability	Design Information Location
2015 IBC	Ultimate Design Wind Speeds (V_{ult}) ≤ 130 MPH and Mean Roof Height ≤ 60 feet	Roof Tile Installation Manual & Table 1507.3.7 of the applicable IBC
2015 IRC	Mean Roof Height ≤ 40 feet	Roof Tile Installation Manual & Section R905.3.7

For **SI:** 1 foot = 305 mm, 1 mph = 1.6 m/s

4.0 PRODUCT DESCRIPTION

4.1 General. The TileVent™ Aluminum Hip and Ridge Seal Flashing and Copper Roll Roof Ventilation are fabricated from a single layer, corrugated, perforated sheet available in rolls 25 feet (7620 mm) long and 9½-, 11-, 13-, and 15¾-inches (241.3, 279.4, 330, and 400 mm) wide. Both edges of the back include butyl adhesive strips nominally 0.800 inches (20 mm) wide by 0.060 inches (1.5 mm) thick covered by a release tape.

4.2 Perforations. The TRA Snow & Sun, Inc.'s TileVent™ Aluminum Hip and Ridge Seal Flashing and Copper Roll Roof Ventilation have four 0.10 inch (2.54 mm) high corrugations per linear inch (25.4mm). Each corrugation is home to 22 ventilation openings each with a nominal dimension of 0.080 by 0.120 inches (2.1 x 3.00 mm). The assembled product has a nominal thickness of 0.10 inches. The opening sizes meet the requirements of sections 1202.2.2 of the 2021 and 2018 IBC, 1203.2.1 of the 2015 IBC, and Section 806.1 of the IRC.

4.3 Net Free Ventilation Area (NFA). The TileVent™ Aluminum Hip and Ridge Seal Flashing and Copper Roll Roof Ventilation have an accumulated area of openings, without deductions, of 10.13 square inches per linear foot.

4.4 TileVent™ Aluminum Hip and Ridge Seal Flashing - Materials. TRA Snow & Sun, Inc.'s TileVent™ Aluminum Hip and Ridge Seal Flashing is fabricated from Type 1200, 0.006-inches-thick (0.16 mm) aluminum.

4.5 TileVent™ Copper Roll Roof Ventilation - Materials. Copper Roll Roof Ventilation is fabricated from 0.003-inches (0.08 mm) thick SF-CU/F20 DIN77670 Copper.

5.0 IDENTIFICATION

TileVent™ is identified by the TRA SNOW & SUN, INC.'s name and trademark, product name, and evaluation report number (ER-829). The IAPMO Uniform Evaluation Service Mark of Conformity may also be used as shown below:

IAPMO UES ER-829

6.0 SUBSTANTIATING DATA

6.1 Data in accordance with ICC-ES AC132, dated February 2010, (editorially revised July 2021) in consideration of codes as noted in Section 1.0, manufacturer's descriptive literature, drawings, specifications, and installation instructions.

6.2 Test reports are from laboratories in compliance with ISO/IEC 17025.

7.0 REFERENCE CODE SECTIONS

The code references apply to the recognition provided in this report but may not include every code section related to the use of this product. Sections that differ from the 2021 IBC or IRC are noted in parenthesis.

International Building Code:

- Section 104.11 Alternative materials, design, and methods of construction and equipment
- Section 1202.2 Roof ventilation (2015 IBC Section 1203.2 Ventilation required)
- Section 1503 Weather Protection
- Section 1505 Fire Classification
- Section 1507.3 Clay and concrete tile

International Residential Code:

- Section R104.11 Alternative materials, design, and methods of construction and equipment
- Section R806.1 Ventilation required
- Section R902 Fire Classification
- Section R903 Weather Protection
- Section R905.3 Clay and concrete tile

8.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on TRA Snow & Sun, Inc.'s TileVent™ Aluminum Hip and Ridge Seal Flashing to assess conformance to the codes shown in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured at the location noted in Section 2.4 of this report under a quality control program with periodic inspection under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org