

Evaluation Report
Lomanco Universal Flat Tile Vent &
TRI-BUILT Universal Flat Tile Vent
Roof Vent

Manufacturer:
Lomanco, Inc.

2101 West Main Street, Jacksonville, AR 72076
(800) 643-5596

for

Florida Product Approval
FL 47228.1 R1

Florida Building Code 8th Edition (2023)

Per Rule 61G20-3

Method: 2 - B

Category: Roofing

**Sub - Category: Roofing Accessories that are an Integral
Part of the Roof System**

Product: Roof Vent

Material: Steel

Support: Wood Deck

This item has been digitally signed and sealed by
James L. Buckner, P.E., on this date below. Printed
copies of this document are not considered signed
and sealed, and the signature must be verified on
any electronic copies.

Prepared by:

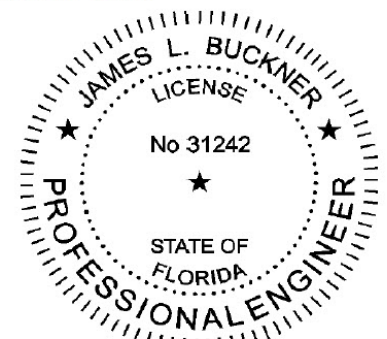
James L. Buckner, P.E., SECB
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Report No. 25-724-Lom-UFT-ER8
(Revises Report No. 24-681.6-Lom-UFT-ER8)

Date: 4/23/2025

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Evaluation Report

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James L. Buckner, P.E.

FL31242

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CBUCK, Inc.

1374 Community Drive, Jupiter, Florida 33458
Phone: (561)491-9927 Website: www.cbuckinc.net

Manufacturer: Lomanco, Inc.

Product Name: Lomanco Universal Flat Tile Vent &
TRI-BUILT Universal Flat Tile Vent

Product Category: Roofing

Sub-Category: Roofing Accessories that are an Integral part of the Roofing System

Compliance Method: State Product Approval Rule 61G20-3.005 (2) (b)

Product/System Description: Lomanco Universal Flat Tile Vent and TRI-BUILT Universal Flat Tile Vent are designed for flat or low-profile tile roofs. The Vent consists of a Base Vent component plus a Top Cover Component.
The unit is connected and attached to the roof deck with nails and screws and adhesive as addressed in the structural installation section of this report. The vents can be used for intake or exhaust ventilation.

Models: UFT107 - Lomanco Universal Flat Tile Vent and TRI BUILT Universal Flat Tile Vent
UFTWUI - Lomanco Universal Flat Tile Vent and TRI BUILT Universal Flat Tile Vent

Product Assembly as Evaluated: Refer to Page 4 of this report for product assembly components/materials & standards:

1. Roof Vent: UFT107 & UFTWUI = Models
2. Fasteners: Roofing Nails & Screws & Adhesive

Support: **Type:**
Wood Deck

(Design of support and its attachment to support framing is outside the scope of this evaluation.)

Description:

- 15/32" (min.) or greater plywood, or
- Wood plank deck (based on minimum density/specific gravity of 0.42)

Slope: Design slope range is from 3/12 to 16/12 in accordance with manufacturer's recommendations.

Performance: **Wind Design Uplift Resistance**

* Design Pressure: - 52.5 PSF

* Allowable design pressure(s) for allowable stress design (ASD with safety factor 2 : 1).
Note: Ultimate uplift test pressure = - 105 psf (No safety factor)

Performance Standards:

The following test protocol was performed to demonstrate compliance with the intent of the code as this product does not specifically address the performance standard in the code.

- **Modified ASTM E330** – *Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors and by Uniform Static Air Pressure Difference*

Code Compliance:

The product described herein has demonstrated compliance with Florida Building Code 8th Edition (2023), Section 1708.2.

Evaluation Report Scope:

This product evaluation is limited to compliance with the structural requirements of the Florida Building Code, as related to the scope section to Florida Product Approval Rule 61G20-3.001.

Limitations and Conditions of Use:

- Scope of "Limitations and Conditions of Use" for this evaluation:
This evaluation report for "Optional Statewide Approval" contains technical documentation, specifications and installation method(s) which include "Limitations and Conditions of Use" throughout the report in accordance with Rule 61G20-3.005. Per Rule 61G20-3.004, the Florida Building Commission is the authority to approve products under "Optional Statewide Approval".
- Option for application outside "Limitations and Conditions of Use"
Rule 61G20-3.005(1)(e) allows engineering analysis for "project specific approval by the local authorities having jurisdiction in accordance with the alternate methods and materials authorized in the Code". Any modification of the product as evaluated in this report and approved by the Florida Building Commission is outside the scope of this evaluation and will be the responsibility of others.
- Refer to applicable building code section for ventilation requirements.
- Design of support system is outside the scope of this report.
- Fire Classification is outside the scope of Rule 61G20-3, and is therefore not included in this evaluation.
- This evaluation report does not evaluate the use of this product for use in the High Velocity Hurricane Zone code section. (Dade & Broward Counties)

Quality Assurance:

The manufacturer has demonstrated compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Keystone Certification, Inc** (FBC Organization #: QUA 1824).

**Components
(by Manufacturer):**

Universal Flat Tile Vent

Base Vent Component:

Material: Steel
Specification: ASTM A653 G90 Galvanized Steel
Thickness: 0.019" (minimum)
Overall Size: 11" x 24" x 0.875"

Top Cover Component:

Material: Steel
Specification: ASTM A653 G90 Galvanized
Steel Thickness: 0.015" (minimum)
Overall Size: 21.875" x 30" x 2"

Unit Net Free Area:

UFT107 NFA 107 square inches
UFTWUI NFA 91 square Inches

Fastener(s):

Nails:

Attaches Roof Vent to Deck
Size: Annular Ring Shank Roofing Nails
Corrosion Resistance: 0.125" (Shank Diameter) x 2-1/2" (Long)
Standard: Per FBC Section 1506.5
Per ASTM F 1667

Screws:

Size: # 10 x 1 – 1/4 inch
Corrosion Resistance: per FBC section 1506

Adhesive:

Brand: Bostik
Model: 915 Polyurethane Sealant & Adhesive

Installation: The Base Vent component is secured with 11 ga. x 1-1/4" galvanized ring shank roofing nails spaced 3 in o.c. along the edge of side flanges and 7-3/8" in upper and lower flange. Fasteners shall be space nominal 1" in from the edge.

The Top Cover Component is installed by sliding the front bottom lip between the adjacent tiles on both sides.

The fastening straps located on the top side of the vent were rotated to point toward the ridge and were fastened using (2) #10 x 1-1/4 in screws, one screw per strap.

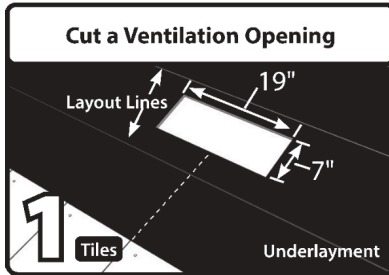
The Top Cover component is adhered to the tile using the Bostik 915 Polyurethane Sealant & Adhesive.

Evaluation
Referenced Data:

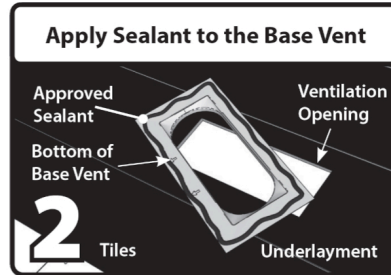
1. Modified ASTM E330 Uniform Static Air Pressure Difference Test
PRI Construction Materials, LLC.(FBC Organization #TST ID: 5878)
Project #: 556T0010 Report Date: 11 / 16 / 23
2. Quality Assurance
Keystone Certifications, Inc (QUA ID: 1824)
3. Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering
(FBC Organization # ANE 1916)

Installation Method

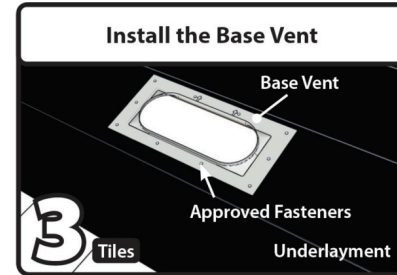
Lomanco Universal Flat Tile Vents (UFT107 & UFTWUI) & TRI-BUILT Universal Flat Tile Vent (UFT107 & UFTWUI)



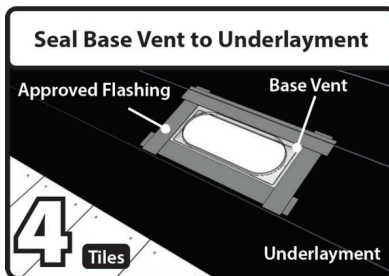
Cut a 7 inch by 19 inch opening that is generally centered between the layout lines and on a roof tile in the preceding course. **CAUTION:** To avoid cutting a rafter, set the blade depth to the thickness of the sheathing.



Apply approved sealant to the bottom of the base vent along the outside edge of the flange.



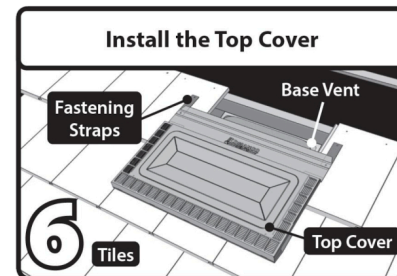
Attach the base vent to the roof sheathing using approved fasteners. Ten (10) fasteners should be spaced as shown.



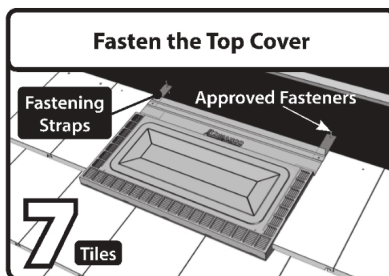
Use approved sealing method. **CAUTION:** Ensure the method of flashing used does not create a "ramp" for water to run over the raised lip of the base vent.



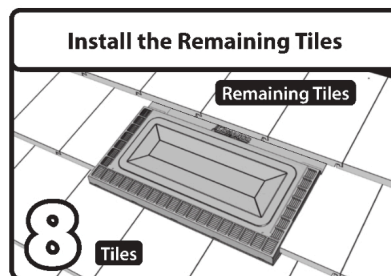
Install the roof tiles except for two (2) tiles leaving a space as shown. Apply approved sealant/adhesive to the tile areas as shown.



Rotate the fastening straps, then slide the lower lip of the top cover under the adjacent tiles.



Use two (2) approved fasteners to secure the fastening straps to the deck. Apply sealant to fastener heads.

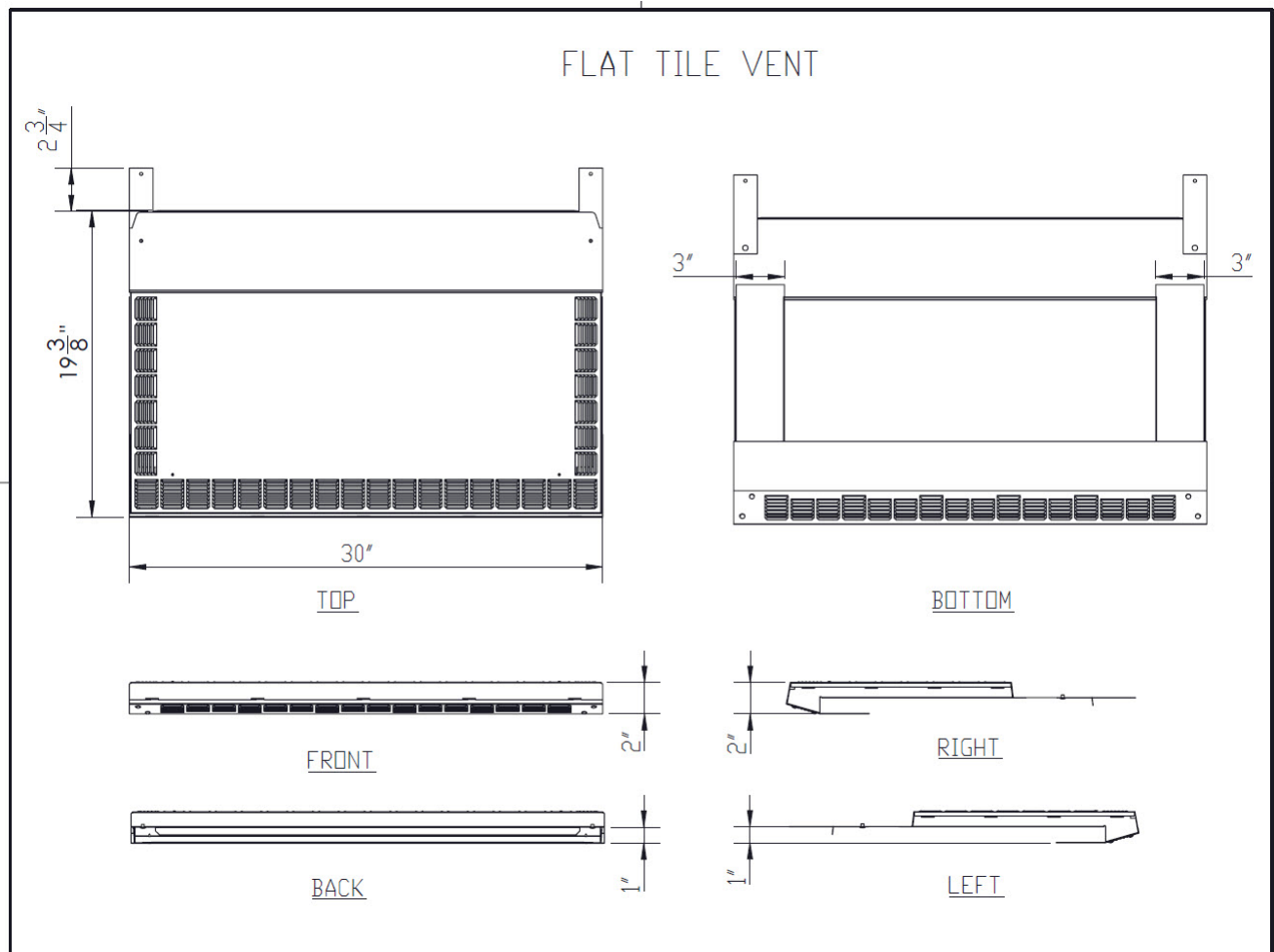


Install the remaining roof tiles.

Installation Drawings

Installation Method

Lomanco Universal Flat Tile Vents (UFT107 & UFTWUI) & TRI-BUILT Universal Flat Tile Vent (UFT107 & UFTWUI)



Profile Drawings