Evaluation Report

Lomanco Deck-Air™ DA-4 and
Tri-Built Deck-Air™ DA-4
Roof Vent
Manufacturer:
Lomanco, Inc.

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

for

Florida Product Approval

FL 17202.1 R7

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: Lomanco Deck-Air™ DA-4 Roof Vent and TRI-Built Deck-Air™ DA-4 Roof Vent
Material: Polypropylene Plastic
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:
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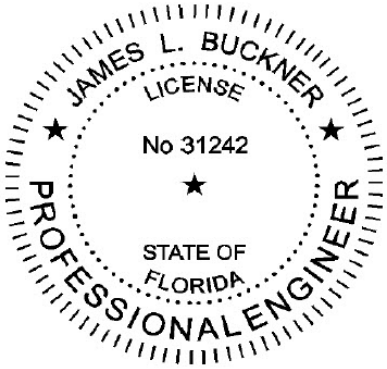
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Report No. 23-607-DA4-ER8
Date: 01 / 09 / 2023
(Revises Report No. 20-285-DA4-ER

Contents:



James L. Buckner, P.E.
FL31242

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Manufacturer: **Lomanco, Inc.**

Product Name: **Deck-Air™ DA-4 Roof Vent and TRI-Built Deck Air™ DA-4**

Product Category: Roofing

Product 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 Deck-Air™ DA-4 and TRI-Built Deck-Air™ DA-4 is a plastic, low profile, roof vent installed along the edge or within the field area of an asphalt shingle roof system. Each vent is mechanically attached to Plywood Deck.

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

1. Roof Vent: Lomanco Deck-Air™ DA-4 or Tri-Built Deck-Ait™ DA-4
2. Fasteners: Roofing Nails

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: Minimum slope shall be in compliance with FBC Chapter 15 based on the type of roof covering, applicable code sections and in accordance with manufacturer's recommendations.

Performance:

Wind Resistance

* Design Pressure:	**+ 97.5 PSF**
	– 97.5 PSF

** Allowable design pressure(s) for allowable stress design (ASD with safety factor 2 : 1).*

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/Materials (by Manufacturer):

Ridge Vent: Deck-Air™ DA-4 Roof Vent

Material Type:	**Polypropylene**
Core Density:	56 pcf (0.9 g/cm^3) Nominal per ASTM D1505
Tensile Strength:	2,800 psi Nominal per ASTM D638
Thickness:	0.055" (1.40 mm) Minimum

Nominal Dimensions:

Lengths:	48"
Width:	13-1/8"
Overall Height:	1"

Fastener(s):

Base Fastener:

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

Installation:

Installation Method:
(Refer to drawings on Page 5 of this report.)

- Cut a 1" opening slot into the deck for ventilation.
- Fasten vent onto the deck using ten (10) roofing nails as described above at the pre-marked nail location at a maximum spacing of **12" o.c.**
- Install underlayment and asphalt shingles over the vent in accordance with the asphalt shingle section of the Florida Building Code.

Install the Lomanco Deck-Air™ or TRI-Built Deck-Air™ DA-4 in compliance with the installation method listed in this report and applicable code sections of FBC 8th Edition (2023). The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer's installation instructions as a supplemental guide for attachment.

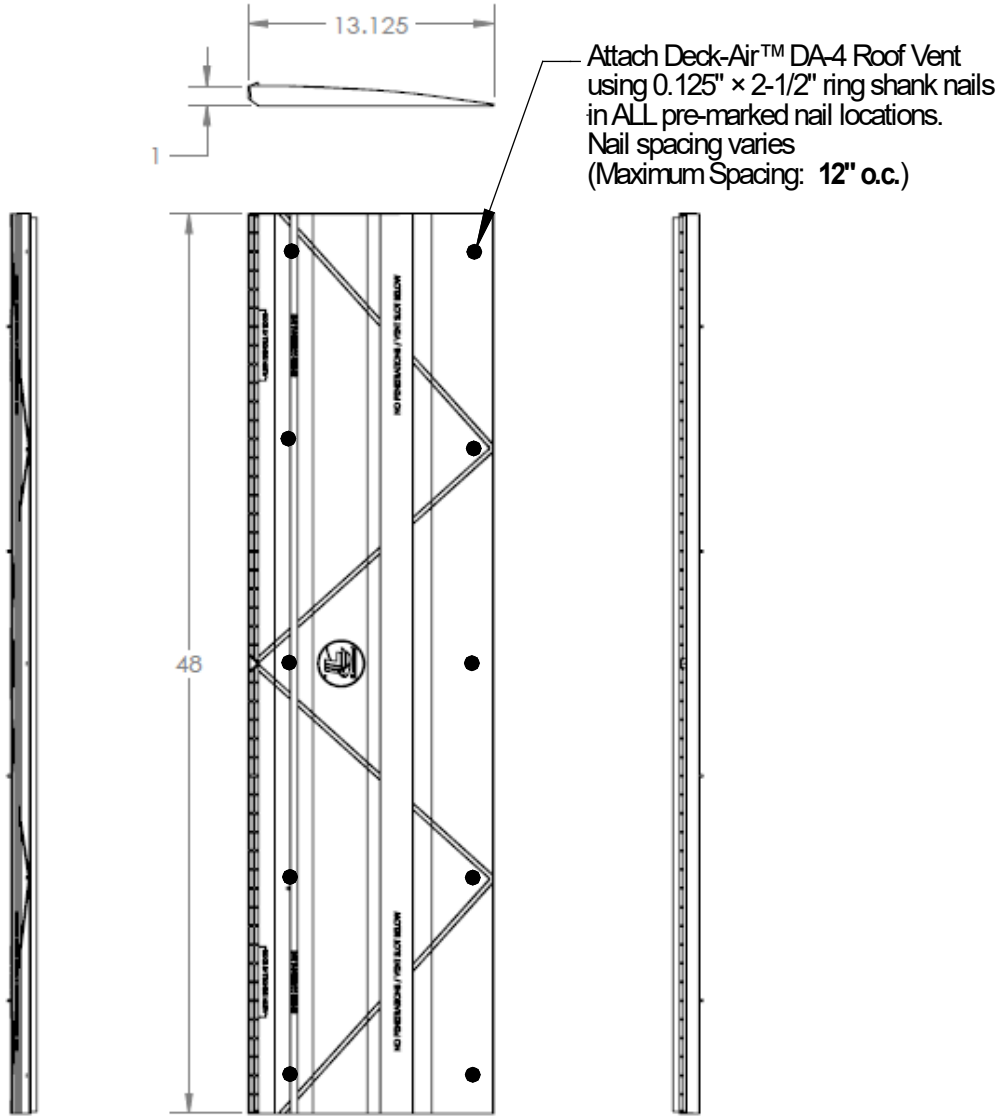
Evaluation Referenced Data:

1. Modified ASTM E330 Uniform Static Air Pressure Difference Test
   Fenestration Testing Laboratory, Inc.(FBC Organization #TST ID: 1657)
   Project #: 13-4831, Report Date: 9 / 12 / 13
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)

Additional Standards Tests by Manufacturer not in scope of evaluation:

1. ASTM G155 Accelerated Weathering Property
   PRI Construction Materials Technologies, LLC. (FBC Organization #TST ID: 5878)
   Project #: LOM-007-02-01, Dated: 6 / 13 / 06
2. ASTM D2843 Smoke Density Property
   PRI Construction Materials Technologies, LLC. (FBC Organization #TST ID: 5878)
   Project #: LOM-041-02-01, Dated: 6 / 5 / 14
3. ASTM D635 Rate of Burning Property
   PRI Construction Materials Technologies, LLC. (FBC Organization #TST ID: 5878)
   Project #: LOM-033-02-01, Dated: 3 / 28 / 14
4. ASTM D1929 Ignition Property
   PRI Construction Materials Technologies, LLC. (FBC Organization #TST ID: 5878)
   Project #: LOM-034-02-01, Dated: 3 / 28 / 14

Installation Method
Lomanco, Inc.
Deck-Air™ DA-4 Roof Vent Attached to Wood Deck



Profile Drawings