## CBUCK Engineering

## Specialty Structural Engineering

CBUCK, Inc. Certificate of Authorization #8064

## **Evaluation Report**

**Atlas Roofing's** Static & Motorized Roof Vents

## Manufacturer:

## **Atlas Roofing Corporation**

2000 RiverEdge Parkway Suite 800 Atlanta, GA 30328 (770) 946-4571 for

Florida Product Approval

# FL 40238.1 R2

Florida Building Code 8th Edition (2023)

Method: 2 - B Category: Roofing

Sub - Category: Roofing Accessories that are an Integral

Part of the Roofing System

**Product Name:** HighPoint®

**Product Description:** Static & Motorized Roof Vents

## **Prepared by:**

James L. Buckner, P.E., SECB Florida Professional Engineer # 31242 Florida Evaluation ANE ID: 1916 Project Manager: Diana Galloway Report No. 23-578-RoofVents-ER (Revises 22-467-HP-ER, FL40238.1 R1)

Date: 08/16/2023

Contents:

**Evaluation Report** Pages 1-7 This item has been electronically signed and sealed by James L. Buckner, P.E., on this date using a Digital Signature. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

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Manufacturer: Atlas Roofing Corporation

2000 RiverEdge Parkway

Suite 800

Atlanta, GA 30328 (770) 946-4571

www. atlasroofing.com

**Product Category:** Roofing

**Product Sub-**

Roofing Accessories that are an Integral part of the Roofing System

Category

**Product Description:** Static and Powered roof vents. The steel vents are available in several colors. This

evaluation report includes the roof vents listed below and in Table A.

**Product Assembly as** 

Roof Vent, Fasteners

**Evaluated:** 

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

PRODUCTS									
Model	Vent Type	Mat'l	Base Dimensions	Height					
HIGHPOINT® POWER VENT HT	Powered, Round Roof Fan	Steel	24" x 24"	8.4"					
HIGHPOINT® GL50 SLANTBACK	Static, Square Slant Roof Vent	Steel	15.9" x 20.4"	5.0"					

Support: Types:

OSB Deck or Plywood Deck

(Design of support system is outside the scope of this evaluation.)

**Description:** 

1. OSB Deck, Min. Thickness: 3/8"

2. Plywood Deck, Min. Thickness: 3/8"

**Roof 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 Uplift Resistance:

Design Uplift Pressure: Refer to TABLE A

Performance Standards:

The following test protocol was performed to demonstrate compliance with the intent of the code: **ASTM E330-14** – *Standard Test Method for Structural by* 

Uniform Static Air Pressure Difference

**Code Compliance:** The product(s) described herein have demonstrated compliance with the intent

and principles of the performance standards adopted by the Florida Building Code

8th Edition (2023).



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**Evaluation Report Scope:** 

This product has been evaluated in compliance with the building envelope requirements of the Florida Building Code, as related to the scope section to Florida Product Approval Rule 61G20-3.001

Product Limitations and Conditions of Use:

- The ridge vents shall be installed in accordance with applicable Building Codes and in compliance with manufacturer's installation instructions.
- Refer to applicable building code section for ventilation requirements.
- This product shall not be installed on roof slopes less than 3:12.
- Structural loads shall comply with the design provisions of the FBC 8th Edition (2023), Chapter 16, Section 1609.

General 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.
- This report is a building code product evaluation per FLPE rule (FAC) 61G15-36
  to comply with Florida product approval rule (FAC) 61G20-3. This evaluation
  report is part of the Florida Building Commission approval for the listed code
  related criteria. This report by James Buckner, P.E. and CBUCK Engineering is not
  a design certification of code compliance construction submittal
  documentation, per FBC section 107, for any individual structure, site specific or
  permit design.
- All metal components and fasteners shall be corrosion resistant in accordance with applicable sections of FBC, including but limited to Sections 1504.3.2, 1506.6 and 1507.4.4.
- 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 UL, LLC (FBC Organization #: CER 9626).



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Component(s)
Material Standards/
Performance:

TABLE A ALLOWABLE LOADS										
Model	Vent Type	Mat'l	Base Dimensions	Height	Dome Diam.	Opening Diam.	Design Pressure			
HIGHPOINT® POWER VENT HT	Powered, Round Roof Fan	Steel	24" x 24"	8.4"	24.3"	14.0"	-167 PSF			
Deck Type for POWER VENT HT: OSB Deck, Min. Thickness: 3/8"										
HIGHPOINT® GL50 SLANTBACK	Static, Square Slant Roof Vent	Steel	15.9" x 20.4"	5.0"	N/A	8"	-167 PSF			

Deck Type for GL50 SLANTBACK: Plywood Deck, Min. Thickness: 3/8"

Note: Allowable uplift design pressure(s) for allowable stress design (ASD) with a margin of safety of 1.5 to 1.

#### Ridge Vent Material:

Material Type: Steel

Thickness: 22 Ga. Minimum Yield Strength: 40 ksi minimum

Material Standards: In compliance with the FBC Section 1507.4.3

Fastener:

Use: Attaches Ridge Vent Base to Plywood Deck

Type: Smooth Roofing Nail

Size:  $1-1/4" \times 0.115"$  Shaft Diameter x 0.361" Head Dia

Standard: Per ANSIASME B18.6.1

#### Installation:

#### **Installation Method:**

#### **HIGHPOINT® POWER VENT HT:**

The base of the vent shall be attached to the deck with roofing nails per this report. One fastener shall be attached to each of the four sides, located 3" from each corner and one at the mid span of each side. The fasteners must be long enough to penetrate into and through the roof deck.

#### **HIGHPOINT® GL50 SLANTBACK:**

The base of the vent shall be attached to the deck with roofing nails per this report. One fastener shall be attached to each of the four sides, located 1" from each corner and one at the mid span of each side. The fasteners must be long enough to penetrate into and through the roof deck.

"The Static & Motorized Ridge Vents" shall be installed in compliance with the installation method listed in this report. 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.



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**Evaluated Referenced Data:** 

1. ASTM E330-14 Uniform Static Air Pressure Difference Test

By Intertek – Plano, TX

(FBC Organization ID# TST 2609)

Project #: H9860.01-801-44-R2, Dated: 05/03/18

2. Quality Assurance By UL, LLC

(FBC Organization #: CER 9626)

Air Vent, Inc. UL File E61959

3. Certification of Independence

By James L. Buckner, P.E. @ CBUCK Engineering

(FBC Organization # ANE 1916)

4. Engineering Analysis

By James L. Buckner, P.E. @ CBUCK Engineering

(FBC Organization # ANE 1916)

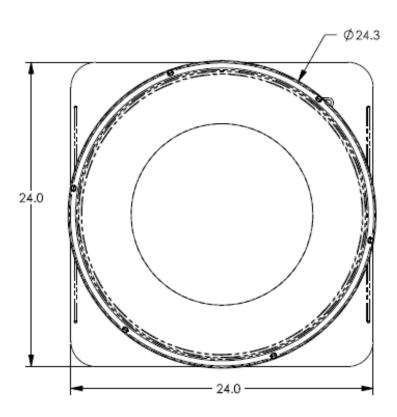
5. Authorization to Use Engineering Data

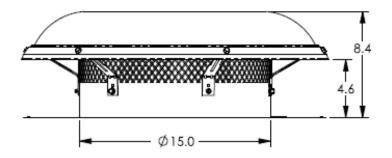
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## **Atlas Roofing Corporation Ridge Vent Profile Drawings**





HIGHPOINT® POWER VENT HT Powered, Round Roof Fan

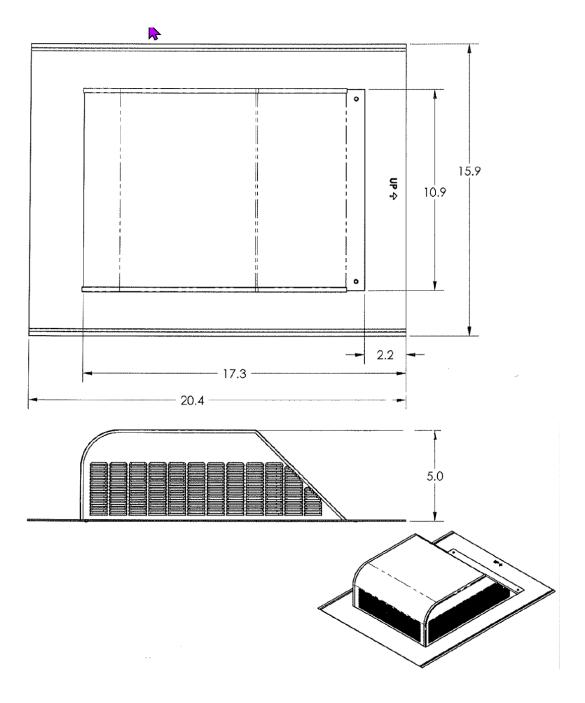
**FL #: FL 40238.1 R2** Date: 08/16/2023

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# **Atlas Roofing Corporation Ridge Vent Profile Drawings**



HIGHPOINT® ® GL50 SLANTBACK Static, Square Roof Vent