



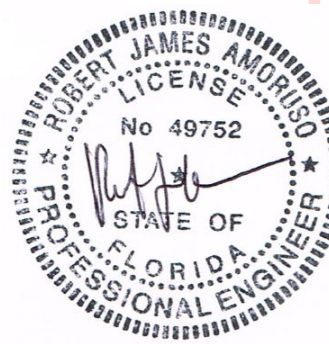
Product Evaluation Report

Date:	June 24, 2023
Report #:	2153-PER
Report Revision No.:	4
Project #:	422-0607
Product Mfg.:	Hibco Plastics, Inc. P.O. Box 157 Yadkinville, NC 27055
Product Description:	Versa Vent Ridge Vent Material
Product Category:	Roofing
Product Sub-Category:	Roofing Accessories that are an Integral Part of the Roofing System
Compliance Method:	Product Approval Rule 61G20-3.005(1)(d) – Product Evaluation Report by a Licensed Professional Engineer
Prepared By:	Robert J. Amoruso, P.E. Florida P.E. No. 49752 PTC Product Design Group, LLC, PO Box 520775, Longwood, FL 32752-0775 Florida C of A No. 25935

CERTIFICATE OF INDEPENDENCE

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report.

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do not have, nor will acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.



Digitally signed
by Robert J
Amoruso
Date:
2023.08.15
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Evaluated by:
Robert J. Amoruso, P.E.
Florida PE License No. 49752



SCOPE

Evaluate Hibco Plastics, Inc. Versa Vent Ridge Vent Material for conformance to the High Velocity Hurricane Zone (HVHZ) of the Current Edition of the Florida Building Code – Building and Residential Volumes including the 8th Edition (2023) Florida Building Code.

DESCRIPTION OF PRODUCT – INSTALLATION REQUIREMENTS

Product series/models covered by this evaluation are:

1. 1-3/4" needle point, 1-3/4" wide reticulated black foam ridge vent material.
2. 2" MWI, 2" wide reticulated black foam ridge vent material.
3. 2" needle point, 2" wide reticulated black foam ridge vent material.

The ridge vent material has two glue strips to secure the ridge vent to the underside of the ridge cap.

See Reference 1 for a description of the product, its installation and other pertinent data related to its approved use.

CODE CONFORMANCE

This product is tested and designed to comply with the High Velocity Hurricane Zone (HVHZ) of the Current Edition of the Florida Building Code – Building and Residential Volumes including the 8th Edition of the Florida Building Code as follows.

- Current Edition of the Florida Building Code (FBC), Building Volume
 - Wind Driven Rain Resistance
 - Chapter 15 - Ridge Vents
 - Tested in compliance with TAS 100(A)
 - Plastics
 - Chapter 26 - Approved Plastics
 - Ventilation
 - Chapter 12 - Ventilation
- Current Edition of the Florida Building Code (FBC), Residential volume
 - Ventilation
 - Chapter 8 - Roof Ventilation



LIMITATIONS AND CONDITIONS OF USE

This product evaluation report contains or refers to specifications, technical details, and installation details and/or methods that pertain to the proper use and/or installation of the product specified herein. Specific limitations and conditions of its use including but not limited to the following are contained in Reference 1 and are the subject of Product Approval in accordance with the State of Florida Product Approval Rule 61G20-3.

- Design Pressure Rating (psf)
- Installation substrate requirements.
- Installation anchor requirements.
- Installation restrictions.
- Product description.
- Product components.

PERFORMANCE AND TESTING STANDARDS SUMMARY

Reference 2 conducted testing to the following standard(s). See Reference 3 for Equivalency Evaluation of test procedures to the 8th Edition (2023) FBC/FRC.

1. TAS 100(A)-95, Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge Area.
2. ASTM D 1929-96, Standard Test Method for Determining Ignition Temperature of Plastics.
3. ASTM D 635-98, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
4. ASTM D 2843-99, Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics.

TESTING RESULTS SUMMARY

1. Wind and wind driven rain resistance as documented in ATI Test Report No. 54543.01-120-32.
 - a. TAS 100(A)-95, Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge Area.
 - i. Passed section 10.3 of TAS 100(A)-95 to a mean roof height of 75 ft.
 - ii. Passed section 10.3 of TAS 100(A)-95 to a maximum wind speed of 110 mph.
2. Plastics testing as documented in ATI Test Report No. 60944.01-106-31.
 - a. ASTM D 1929-96, Standard Test Method for Determining Ignition Temperature of Plastics. Results exceeding the 8th Edition (2023) FBC are:
 - i. (Spontaneous) Self-Ignition Temperature is 807°F > 650 °F



- b. ASTM D 635-98, Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position. Results exceeding the 8th Edition (2023) FBC are:
 - i. Average linear burn rate was zero in/sec obtaining a CC-1 classification.
- c. ASTM D 2843-99, Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics. Results Exceeding the 8th Edition (2023) FBC are:
 - i. Average smoke density rating is $63.8 < 75$.

REFERENCES & SUPPORTING DOCUMENTS

- 1. Drawings:
 - a. HIB0001, Rev. B, dated January 16, 2018, signed, and sealed by Robert J. Amoruso, Hibco Plastics, Inc. Versa Vent Ridge Vent Material
- 2. Test Reports.
 - a. ATI Test Report No. 54543.01-120-32 to TAS 100(A)-95
 - b. ATI Test Report No. 60944.01-106-31 to ASTM D 1929-96, ASTM D 635-98, and ASTM D 2843-99
- 3. Reports
 - a. PTC Report No. 2153-EER, Rev. 4, Equivalency Evaluation Report for Hibco Plastics, Inc. Versa Vent Ridge Vent Material, signed and sealed by Robert J. Amoruso.