Product Evaluation Report

Product Manufacturer	Product Name, Model and/or Description
Attic Breeze P.O. Box 1318, 1370 FM 116 Gatesville, Texas 76528	Cardinal Ventilation CV-XLP/XLP Pro Model Series Solar Attic Fans

Code:

- Current Edition of the Florida Building Code including 8th Edition (2023) Florida Building Code

Compliance Method:

- Product Approval Rule 61G20-3.005(1)(d) – Product Evaluation Report by a Licensed Professional Engineer

Product Name, Model and/or Designation:

- Cardinal Ventilation CV-XLP/XLP Pro Model Series Solar Attic Fans

Installation Drawing No.:

- PTC Product Design Group Drawing No. ATBR0001, original issue, dated 4/6/20, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752

Engineering Analysis & Evaluation:

- Anchorage engineering (PTC Calc No. 2662-Calc) in accordance with the current edition of the Florida Building Code, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752.

Testing: Performance testing based upon signed and sealed test reports by Idalmis Ortega, Florida License No. 76905 as follows:

- FTL, Medley, FL, 33166. Test Report No. 12018, dated 03/11/20.
  - Test for structural performance to ASTM E330-14 at a test load of -200.0 psf.
  - Safety factor of 2 applied to structural test load results yields design pressure of -100 psf.
  - The testing methodology and test results of Test Report No. 12018 using ASTM E330 were reviewed against the requirements of TAS 202-94 (6th Edition FBC) and found to be consistent with the TAS 202 HVHZ testing protocol's requirements for uniform static load testing.

- FTL, Medley, FL, 33166. Test Report No. 12036, dated 03/21/20.
  - Test for wind-driven rain resistance per TAS 100(a)-95, section 10.3 was performed.
  - Structural testing for increased windspeed resistance for vents per TAS 100(a)-95, section 10.4 was performed.
  - An installation height not to exceed 75 feet is applicable based on TAS 100(a)-95, table 3.
  - Testing conducted using asphalt shingles.

- Testing conducted above uses standards required by the 6th Edition (2017) Florida Building Code. See Equivalency Evaluation 2662-EER, Rev. 2 for comparison to 8th Edition (2023) Florida Building Code.

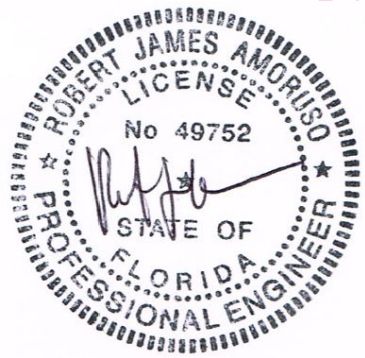
Limitations & Conditions of Use:

- This product has been evaluated for use inside the High Velocity Hurricane Zone (HVHZ).
- This product has not been tested for impact resistance.
- Refer to Product Installation Instructions noted above for:
  - Maximum allowable wind loads at related maximum allowable size(s).
  - Overall dimensions and material/grade of main product components, accessories, etc.
  - Illustrated diagrams of the attachment of the product to substrate structure.
  - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.
- Site wind pressures shall be determined by a licensed professional engineer in accordance with the current edition of the Florida Building Code (and/or ASCE 7 as referenced in the current edition of the Florida Building Code) for components and cladding based on allowable stress design.
- Site conditions not covered in this product evaluation document are subject to additional engineering analysis by a licensed professional engineer or registered architect as required by the authority having jurisdiction.
- Adequacy of the existing structural substrates as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the licensed professional engineer or registered architect acting as the design professional of record for the project of installation.

Certificate of Independence per Product Approval Rule 61G20-3.009

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. does 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
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Evaluated By:
Robert J. Amoruso, P.E.
FL P.E. License Number 49752