Equivalency 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 61G20-3.015(4)(d) – Equivalency of Standards

Product Name, Model and/or Designation:

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

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 and found to be consistent with the TAS 202 HVHZ testing protocol's requirements for uniform static load testing. See equivalency evaluation below.

- 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.

Equivalency Evaluation: Review of uniform static load testing using ASTM E330-14 compared to TAS 202-94.

FTL, Medley, FL, 33166. Test Report No. 12018, dated 03/11/20 used ASTM E330-14 to a test load of -200.0 psf to ascertain uniform static load testing performance.

- Testing was conducted in increments of 20 psf starting at -20 psf up to and including -200 psf.
- A Safety Factor of 2 is applied to the test load to determine the design pressure to be -100 psf.

8th Edition (2023) FBC, TAS 202-94 was reviewed and found to dictate equivalent requirements as that used in Test Report No. 12018.

Conclusion: Test Report No. 12018 meets the requirements of 8th Edition (2023) FBC, TAS 202-94.

FTL, Medley, FL, 33166. Test Report No. 12036, dated 03/21/20, wind-driven rain resistance per TAS 100(A)-95, section 10.3 was performed.

8th Edition (2023) FBC, TAS 100(A)-23 was reviewed and found to dictate equivalent requirements as that used in Test Report No. 12036.

Conclusion: Test Report No. 12036 meets the requirements of 8th Edition (2023) FBC, TAS 100(A)-23.

Certificate of Independence per Product Approval Rule 61G20-3.009

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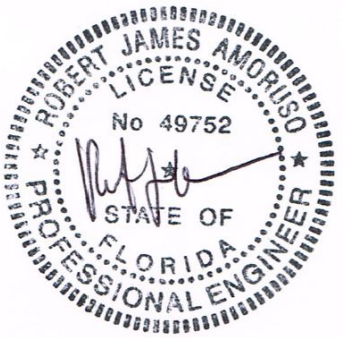

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Evaluated By:
Robert J. Amoruso, P.E.
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