

# Product Evaluation Report

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## Product Manufacturer

Solaro Energy, Inc.  
1404 Enterprise Rd.  
Socorro, NM 87801

## Product Name, Model, Series and/or Description

Series "Solaro Aire"  
Solar Powered Ventilation System

Code: Current Edition of the Florida Building Code

Compliance Method: 61G20-3.005(1)(d) – Product Evaluation Report by a Licensed Professional Engineer

Product Testing, Materials and Certification:

- National Certified Testing Laboratories Test Report No. NCTL-210-4009-01 and associated laboratory drawings.
- Certification by Keystone Certification, Inc.
- Materials:
  - Low or High Profile Base: 0.080" Thick 3003-0 Aluminum
  - Fan Hood: 4.5" x 0.063" Thick 3003-0 Aluminum

Product Installation Instructions:

- Drawing No. NL\_0054, dated 8/31/15, signed and sealed by Robert J. Amoruso, P.E.

Engineering Analysis: The following engineering and/or rational analysis/calculations have been performed.

- Anchorage has been verified by calculation prepared by Robert J. Amoruso, P.E. in accordance with the current edition of the Florida Building Code.

Performance Testing and Code Conformance:

- Performance Testing to ASTM E330-02
  - Uniform Load Structural Test Pressure = +/-180 psf.
- Code Conformance:
  - In accordance with Section 1504.9 of the 5<sup>th</sup> Edition (2014) FBC, a Safety Factor of 2 is applied to arrive at a Design Pressures of +/- 90 psf.

Limitations & Conditions of Use:

- This product has **NOT** been evaluated for use inside the HVHZ (High Velocity Hurricane Zone).
- 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 the 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 7-10 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.

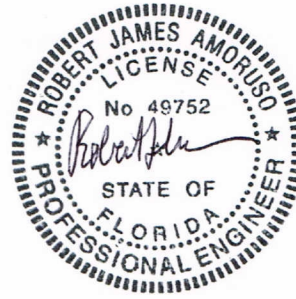
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Certificate of Independence per Product Approval Rule  
61G20-3.009

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Digitally signed  
by Robert J  
Amoruso, P.E.  
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Evaluated by:  
Robert J. Amoruso, P.E.  
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