

EQUIVALENCY EVALUATION REPORT

Project No.: ACE-2026-139

Report No.: ACE-EER-1160, Rev. 1

Product Description: Solatube Solar Attic Fan, Models RM-1500 & RM-2400 - HVHZ

Product Manufacturer: Solatube International, Inc., 2210 Oak Ridge Way, Vista, CA 92081

Code Compliance Statement: This report evaluates the product(s) listed above to the requirements of FAC Product Approval Rule 61G20-3.005. This product complies with the requirements of the 8th Edition (2023) Florida Building Code including the High Velocity Hurricane Zone (HVHZ) per the product testing standards listed below.

Compliance Method: Product Approval Rule 61G20-3.015(4)(d) – Equivalency of Standards

Documentation:

1. Installation Drawings
 - a. SOLA0006, Rev. F, dated 5/20/26, Solatube Solar Attic Fan High Profile RM-1500 Roof Fan – *Installation Anchorage Details*, signed and sealed by Robert J. Amoruso, PE.
 - b. SOLA0007, Rev. D, dated 5/20/26, S Solatube Solar Attic Fan High Profile RM-2400 Roof Fan – *Installation Anchorage Details*, signed and sealed by Robert J. Amoruso, PE.
2. Testing
 - a. Intertek Test Report No. S4852.01-109-18, dated 7/8/25, Signed and Sealed by Tanya A. Dolby, FL PE No. 93536, TAS 100(A)-23 testing of Solatube RM-2400 HVHZ High Profile Solar Powered Attic Roof Fan.
 - b. Architectural Testing Inc. Test Report No. C1439.01-109-18-R1, dated 8/23/12, Solatube Solar Attic Fan to *TAS-100(A)-95*, signed and sealed by Michael D. Stremmel, FL P.E.
 - c. Architectural Testing Inc. Test Report No. C1439.02-109-18-R1, dated 8/23/12, Solatube Solar Attic Fan to *TAS-202-94*, signed and sealed by Michael D. Stremmel, FL P.E.
 - d. Architectural Testing Inc. Test Report No. A6443.01-106-31, dated 8/23/11, Solatube Solar Attic Fan *Grill testing to ASTM G155 and D638*.
 - e. SGS U.S. Testing Company Inc., Test Report No. 2228540-3, dated 12/1/10, Solatube Solar Attic Fan *Grill testing to ASTM D1929*.
 - f. SGS U.S. Testing Company Inc., Test Report No. 2228540-1, dated 12/1/10, Solatube Solar Attic Fan *Grill testing to ASTM E84*.
 - g. SGS U.S. Testing Company Inc., Test Report No. 2228540-2, dated 12/6/10, Solatube Solar Attic Fan *Grill testing to ASTM D635*.
3. Reports
 - a. ACE Report No. ACE-CALC-1160, Rev. 0, *Solatube Solar Attic Fan, Models RM-1500 & RM-2400 – HVHZ, Anchorage Engineering*, signed and sealed by Robert J. Amoruso, P.E.
 - b. ACE Report No. ACE-PER-1160, Rev. 0, *Solatube Solar Attic Fan, Models RM-1500 & RM-2400 – HVHZ, Product Evaluation Report to 8th Edition (2023) FBC*, Signed and Sealed by Robert J. Amoruso, P.E.
4. 8th Edition (2023) Florida Building Code – Building Volume
 - a. Testing Requirements

- i. Section 1523.6.5.2.13
 - ii. Section 1523.4
 - b. Material Requirements
 - i. Table 1503.2 Metal Flashing Material
 - ii. Section 1507.2.9 Flashings - asphalt shingles
 - iii. Section 1518.9 Metal panels/shingles
 - c. Plastics Requirements
 - i. Section 2615.2 Definitions: Approved Plastics
 - ii. Section 2606.4, Light-Transmitting Plastics / Specifications
- 5. Intertek/ATI Letter dated 1/15/18 from Timothy J. McGill/Manager of Product Testing Intertek/ATI to Todd Anderson/Solatube related to substitution of new solar panels for those tested in Reference 2.a and 2.b. See Appendix A for this letter.

Performance and Testing Standards:

- 1) TAS-100(A)-95 and 23, *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) TAS-202-94, *Criteria for Testing Impact & Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure*
- 3) ASTM G 155-04, *Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials*
- 4) ASTM D 638-03, *Standard Test Method for Tensile Properties of Plastics.*
- 5) ASTM D 1929 - 96(2001)e1, *Standard Test Method for Determining Ignition Temperature of Plastics*
- 6) ASTM E 84 - 09a, *Standard Test Method for Surface Burning Characteristics of Building Materials*
- 7) ASTM D 635 - 06, *Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position*

Equivalency Evaluation – Structural Testing:

The revisions to the TAS 100(A) and TAS 202 performance test standards as part of the 8th Edition (2023) FBC Test Protocols for HVHZ have been reviewed and found not to affect the method of testing, acceptance criteria, or reporting criteria in such a manner as to result in any change in the performance of the product. As such, test results obtained from testing to these standards are valid for demonstrating compliance to the 8th Edition (2023) FBC Test Protocols for HVHZ.

FL14826		Revision Level of Standard used in Testing	Florida Building Code 8th Edition (2023) Code Test Protocol Revision Levels
HVHZ Testing			
Test Report No.	Standard		
S4852.01-109-18	TAS 100(A)	23	23
C1439.01-109-18-R1	TAS 100(A)	95	23
C1439.02-109-18-R1	TAS 202	94	94

Equivalency Evaluation – Plastics Testing:

The changes in revision level of the ASTM Standard Test Methods and Practices as part of the 8th Edition (2023) FBC/FRC have been reviewed and found not to affect the method of testing, acceptance criteria, or reporting criteria in such a manner as to result in any change in the performance of the product. As such, test results obtained from testing to these standards are valid for demonstrating compliance to the 8th Edition (2023) FBC/FRC. The following table compares the revision levels of the Standards used in testing vs. those required by the 8th Edition (2023) FBC/FRC. It has been determined that Standards used in testing are equivalent to those in the 8th Edition (2023) FBC/FRC in accordance with Product Approval Rule 61G20-3.015(4)(d) – Equivalence of Standards.

FL14826		Revision Level of Standard used in Testing	Florida Building Code - ASTM Revision Levels	
PLASTICS TESTING			8th Edition (2023) Code	
Test Report No.	Standard		FBC	FRC
2228540-3	ASTM D1929	96(2001)e1	16	n/a
2228540-2	ASTM D635	06	14	n/a
A6443.01-106-31	ASTM D638	03	03	n/a
A6443.01-106-31	ASTM G155	04	13	n/a
2228540-1	ASTM E84	09a	18b	18b

**Certificate of Independence per Product
Approval Rule 61G20-3.009**

Robert J. Amoruso, P.E., does not have, nor will he acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report.

Robert J. Amoruso, P.E., does not have, nor will he 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.
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APPENDIX A:



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January 15, 2018

Mr. Todd Anderson
Solatube International, Inc. ("Customer")
2210 Oak Ridge Way
Vista, California 92081

RE: LETTER OF EQUIVALENCY
SOLAR STAR HVHZ HIGH PROFILE EVALUATED TO THE SOLAR STAR HVHZ RM 1500 HIGH (16W)
SOLAR STAR HVHZ RM 1600 HIGH EVALUATED TO THE SOLAR STAR HVHZ RM 2400 HIGH (35W)

Dear Mr. Anderson:

Pursuant to your request, Intertek Building & Construction (B&C) was contracted to review modifications to the as tested products (C1439.01-109-18 and C1439.02-109-18). The testing for the products included TAS 202 and TAS 100(A). The changes for the purpose of this letter from the tested products to the new designed solar panels are limited to:

PRODUCT	TESTED	DRAWING NO.	WIDTH (INCHES)	LENGTH (INCHES)
Solar Star HVHZ High Profile	Yes	900830	10.32	16.14
Solar Star HVHZ RM 1500 High (16W)	No	122290	10.39	16.21

NOTE: THE ONLY CHANGE WAS TO THE SOLAR PANEL AND THE FASTENING METHOD WAS THE SAME FOR BOTH UNITS.

PRODUCT	TESTED	DRAWING NO.	DIAMETER (INCHES)	THICKNESS (INCHES)
Solar Star HVHZ RM 1600 High	Yes	900835	20.47	0.78
Solar Star HVHZ RM 2400 High (35W)	No	122440	20.47	0.59

NOTE: THE ONLY CHANGE WAS TO THE SOLAR PANEL AND THE FASTENING METHOD WAS THE SAME FOR BOTH UNITS.

Based on the drawings provided by Mr. Anderson from Solatube International, Inc. it is my professional opinion that the above changes would not alter any results of the physical testing specified and therefore the evaluated products are equivalent as it relates to the physical testing referenced above.

For ARCHITECTURAL TESTING, INC.

Timothy J. McGill
Manager - Product Testing

TJM:vjm
cc: H8971.01-109-18, C1439.01-109-18, C1439.02-109-18

