



**TEST REPORT**

**Report No.:** G1601.01-801-44

**Rendered to:**

Solar Royal, LLC.  
Austin, Texas

**PRODUCT TYPE:** Solar Attic Ventilation Fan  
**SERIES/MODEL:** SR1800 Series (20/22/25/30/40/50Watt)

Title	Summary of Results
Uniform Load Structural Test Pressure	-16279 Pa (-340.00 psf)

Reference must be made to Report No. G1601.01-801-44, dated 09/21/16 for complete test specimen description and detailed test results.

**1.0 Report Issued To:** Solar Royal, LLC  
3530 Bee Caves Rd, Ste. 104  
Austin, Texas 78746

**2.0 Test Laboratory:** Architectural Testing, Inc., an Intertek company ("Intertek-ATI")  
1909 10<sup>th</sup> Street  
Plano, Texas  
(469) 814-0687

### **3.0 Project Summary:**

**3.1 Product Type:** Solar Attic Ventilation Fan

**3.2 Series/Model:** SR1800 Series (20/22/25/30/40/50Watt)

**3.3 Compliance Statement:** Results obtained are tested values and were secured by using the designated test method(s). Test specimen description and results are reported herein.

**3.4 Test Date(s):** 08/22/16

**3.5 Test Record Retention End Date:** All test records for this report will be retained until August 22, 2020.

**3.6 Test Location:** Intertek-ATI test facility in Plano, Texas.

**3.7 Test Specimen Source:** The test specimen(s) were provided by the client. Representative samples of the test specimen(s) will be retained by Intertek-ATI for a minimum of four years from the test completion date.

**3.8 Drawing Reference:** The test specimen drawings have been reviewed by Intertek-ATI and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek-ATI per the drawings located in Appendix B. Any deviations are documented herein or on the drawings.

**3.9 List of Official Observers:**

<u>Name</u>	<u>Company</u>
Roy Stocker	Solar Royal, LLC
Clint Barnett	Intertek-ATI

**4.0 Test Method(s):**

ASTM E330/E330M-14, *Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

**5.0 Test Specimen Description:**

**5.1 Product Sizes:**

**Test Specimen**

	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	660	26	660	26
Collar	331	12-5/8 Diameter	76	3
Hood	610	24	610	24

**5.2 Vent Construction:** An 18" x 18" solar cell was located on top of the vent.

Vent Member	Material	Description
Base	Powder Coated Aluminum (6061)	One piece tapered profile
Hood	Plastic -ABS	One piece tapered profile with a ventilation fan

	Joinery Type	Detail
Fan mount to base	4 point interlock pins	Secured onto the base with a four point interlocking system

## 5.0 Test Specimen Description: (Continued)

### 5.3 Metal Thickness and plastic thickness:

Vent Member	Thickness
Base	0.075"
Hood	0.112"

## 6.0 Installation:

The specimen was installed onto a roof deck. The roof deck was made from 2 x 6 SPF wood, clad with 7/16" OSB.

Location	Anchor Description	Anchor Location
Flange	#10 x 1-1/2" wood screws with neoprene washers	Two screws were located on each side 6" from each end and 2".

**7.0 Test Results:** The temperature during testing was 21°C (70F). The results are tabulated as follows:

Title of Test	Results	Allowed	Note
Uniform Load Structural, per ASTM E 330 -16,279 Pa (-340 psf)	No damage	No damage	1, 2

## 7.0 Test Results: (Continued)

**General Note:** All testing was performed in accordance with the referenced standard(s).

*Note 1: Loads were held for 60 seconds.*

*Note 2: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.*

Intertek-ATI will service this report for the entire test record retention period. Test records such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained by Intertek-ATI for the entire test record retention period.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the

specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For ARCHITECTURAL TESTING, INC.:

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Clint Barnett  
Technician

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Jeffrey Crump  
Sr. Project Manager

CAB:cm

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix A: Location of air seal (1)

Appendix B: Drawings (1)

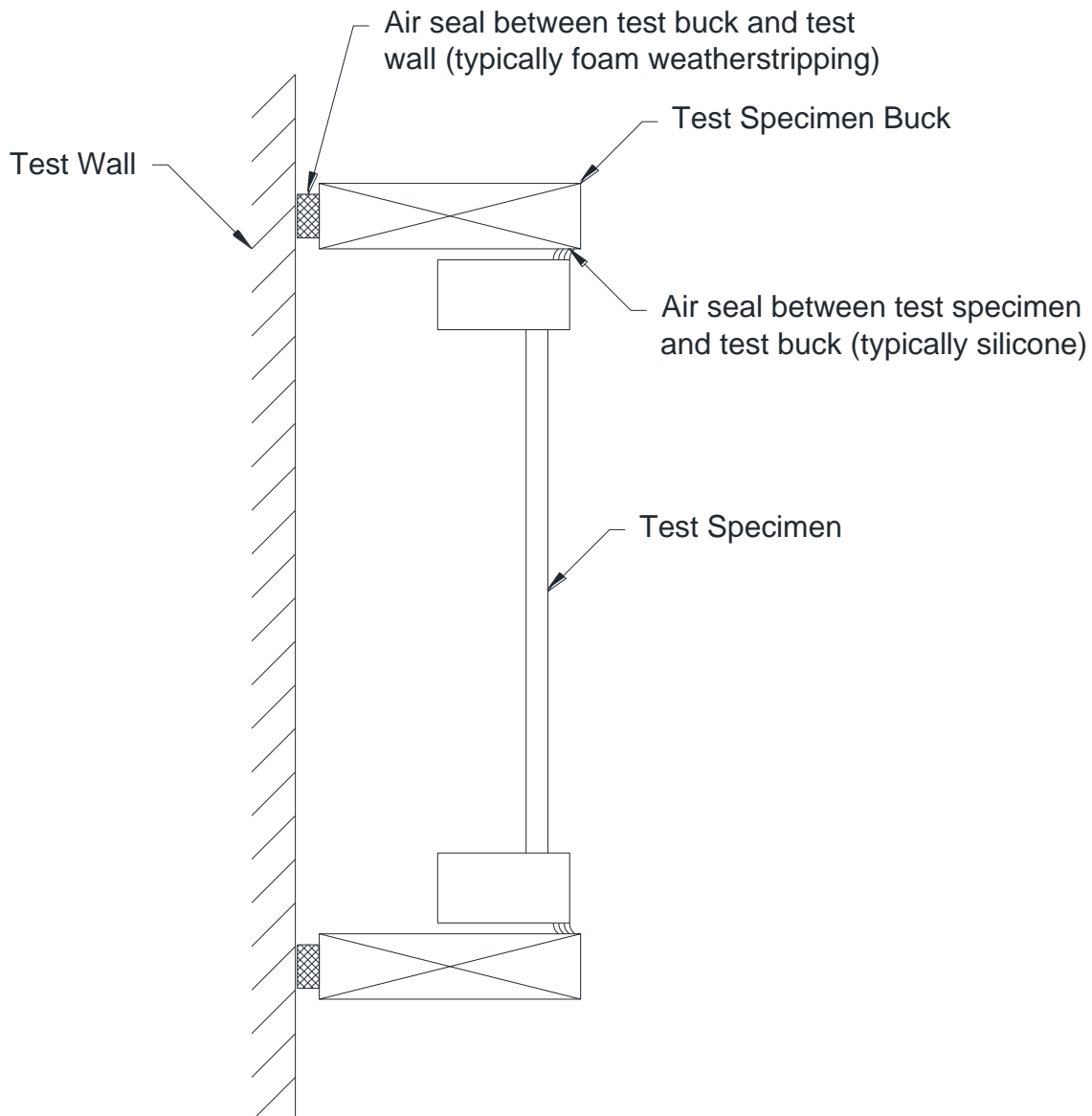
This report produced from controlled document template ATI 00479, revised 06/19/15.

### Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
1	10/11/16	Page 3	Added Powder Coated Aluminum to description Added Plastic ABS to description
2	10/28/16	Cover,page 1	Changed Drawing Added to the series/model number

### Appendix A

**Location of Air Seal:** The air seal between the test specimen and the test wall is detailed below. The seal is made of foam weather-stripping and is attached to the edge of the test specimen buck. The test specimen buck is placed against the test wall and clamped in place, compressing the weather-stripping and creating a seal.



## **Appendix B**

### **Drawings**



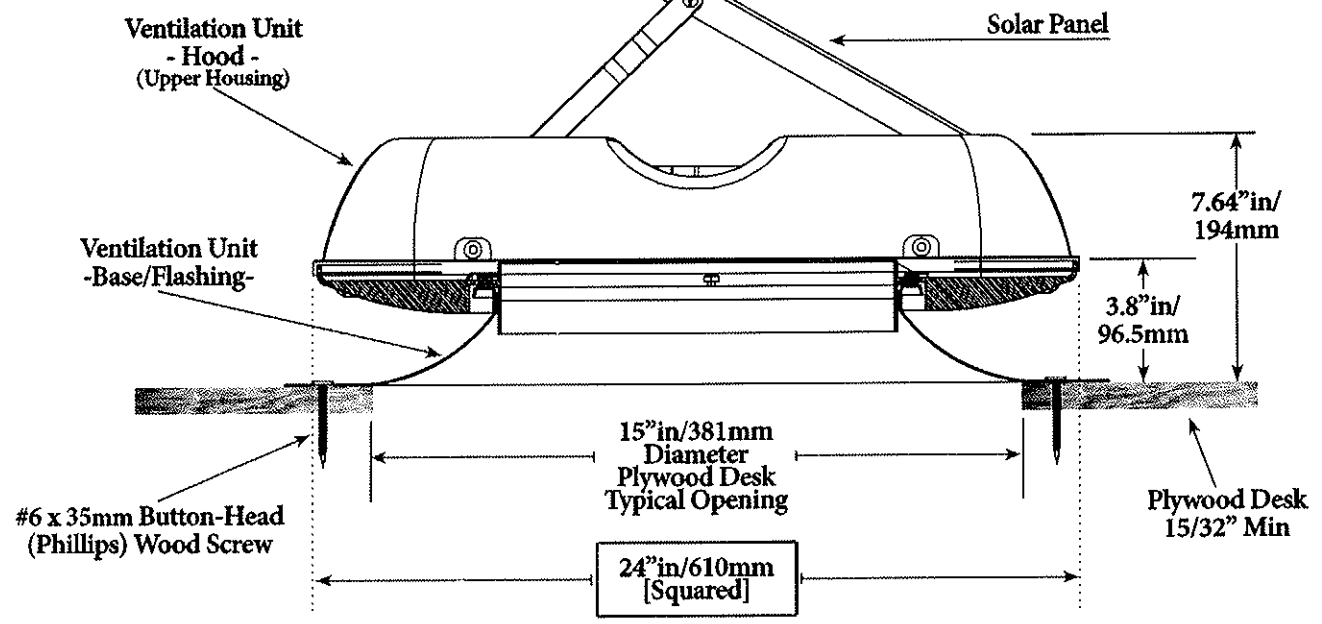
Test sample complies with these details.  
Deviations are noted.

Report # G-1601-01  
Date 10/14/16 Rev. CB



**APPENDIX - A**  
**Model# SR1800 Series**

**ASSEMBLY SIDE VIEW**



**ASSEMBLY TOP VIEW**

