

TEST REPORT

Report No.: C2205.01-801-44

Rendered to:

REMINGTON SOLAR
Dallas, Texas

PRODUCT TYPE: Solar Attic Fan
SERIES/MODEL: 300/450

Title	Summary of Results
Uniform Load Structural Test Pressure	-13,167 Pa (-275.00 psf)

Reference must be made to Report No. C2205.01-801-44, dated 09/12/12 for complete test specimen description and detailed test results.

Test Date: 09/10/12

Report Date: 09/12/12

Record Retention End Date: 09/12/16

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1.0 Report Issued To: Remington Solar
3109 Knox Street Suite 503
Dallas, Texas 75205

2.0 Test Laboratory: Architectural Testing, Inc.
2865 Market Loop
Southlake, Texas 76092
(817) 410-7202

3.0 Project Summary:

3.1 Product Type: Solar Attic Fan

3.2 Series/Model: 300/450

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: 09/10/12

3.5 Test Location: Architectural Testing, Inc. test facility in Southlake, Texas.

3.6 Test Sample Source: The test specimen was provided by the client. Representative samples of the test specimens will be retained by Architectural Testing for a minimum of four years from the test completion date.

3.7 Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix A. Any deviations are documented herein or on the drawings.

3.8 List of Official Observers:

<u>Name</u>	<u>Company</u>
Murray Smith	Remington Solar
Clint Barnett	Architectural Testing, Inc.

4.0 Test Method(s):

ASTM E 330-02, *Test Method for Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.*

5.0 Test Specimen Description:

5.1 Product Sizes:

	Width		Height	
	millimeters	inches	millimeters	inches
Base flange size	686	27	686	27

	Diameter		Height	
	millimeters	inches	millimeters	inches
Collar	330-508	13-20 tapered	152	6
Hood	508-597	20-23-1/2 tapered	108	4-1/4
Bird Screen	356	14	76	3

5.2 Vent Construction:

Vent Member	Material	Description
Base	Painted steel	One piece tapered profile
Hood	Painted steel	One piece tapered profile
Bird screen	Steel mesh	Around perimeter of opening

	Joinery Type	Detail
Fan mount to base	Two screws	Three places around the perimeter secured with two #10 x 3/4" machine screws and nuts.
Base to hood braces	Four braces	Each brace is secured to the base with two #10 x 3/4" machine screws and nuts. Each brace is secured to the hood with one #10 machine screw and nut
Bird Screen	Interference fit	The screen is wrapped around the perimeter of the opening and secured to itself with two #10 x 3/4" machine screws and nuts.

5.3 Metal Thicknesses:

Vent Member	Thickness
Base	0.063"
Hood	0.047"
Braces	0.122"

6.0 Installation: The specimen was installed onto a roof deck. The roof deck was made from 2 x 6 SPF wood, clad with 1/2" nominal plywood. The flange was sealed to the plywood with roofing sealant.

Location	Anchor Description	Anchor Location
Flange	#10 x 1-1/2" hex head screws	Corners & center along flange sides within 1" of flange edge. Screws penetrated the plywood by 1".

7.0 Test Results: The temperature during testing was 22°C (71°F). The results are tabulated as follows:

Title of Test	Results	Allowed	Note
Uniform Load Structural, per ASTM E 330 -13,167 Pa (-275 psf)	No damage	No damage	1, 2

General Note: All testing was performed in accordance with the referenced standard.

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.



The service life of this report will expire on the stated Test Record Retention End Date, at which time such materials as drawings, data sheets, samples of test specimens, copies of this report, and any other pertinent project documentation, shall be discarded without notice.

If test specimen contains glazing, no conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made. 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 Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

Clint Barnett
Technician

Andy Cost
Laboratory Manager

AC:hd

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix-A: Drawings (1)

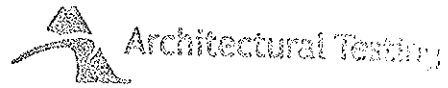
This report produced from controlled document template ATI 00479, issued 03/01/11.

Test Report No.: A9832.01-801-44
Report Date: 06/27/11
Test Record Retention End Date: 05/16/15

Appendix A

Drawings

Solar Attic Fan Components



Test sample complies with these details:
Deviations are noted.

Report# C2205.01-801-44

Date 9/12/12 Tech CP

