



PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for: The Attic Depot LLC
13627 Poplar Cir., #101
Conroe, TX 77304

Product Name(s): SOLR ATTIC FAN (Model # 30W1900)

Project No.: 2259T0001

Date(s) Tested: Mar. 17 – 23, 2020

Test Methods: ASTM E 330-02(2010)

Results Summary: Over CAT 15/32 CDX plywood sheathing: -300psf

Purpose: Evaluate the **SOLR ATTIC FAN** for uniform static load resistance in accordance with **ASTM E 330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference**.

Test Methods: Testing was conducted in accordance with ASTM E 330-02(2010): *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*. Specimens were tested in accordance with Procedure B. Pressure was increased in 15psf increments that were held for 60s until failure was obtained. Failure was demonstrated by the loss of attachment or failure of any component.

Sampling: The following materials were received by PRI.

<u>Product</u>	<u>Source</u>	<u>Date</u>	<u>Sampling</u>
SOLR ATTIC FAN (Model # 30W1900)	Tampa, FL	Mar. 4, 2020	The Attic Depot
#14-13 x 2" PH screw with DP1 tip and 5/8" O.D. sealing washer	Tampa, FL	Mar. 6, 2020	The Attic Depot

Sample Description: 19" long x 19" wide x 9" high solar powered attic exhaust fan preformed from 20ga. powder coat, galvanized steel. The vent includes an adjustable 30W solar panel and 1550CFM internal fan located in throat of the vent. The vent is secured with 2"

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Test Specimen: Specimen #1 – SOLR ATTIC FAN over 15/32-inch thick plywood

Installed over CAT 15/32 PS 1-09, APA span rated, CDX plywood sheathing. Sheathing was fastened to 2x wood trusses spaced 24" o.c. with 0.113" x 2-3/8" galvanized ring shank nails spaced 6" o.c. along each support. A 14" diameter cutout was removed from the plywood and the vent was installed centered over the cutout. The vent was secured with (8) #14-13 x 2" PH screws with DP1 tip and 5/8" O.D. sealing washer placed in the pre-drilled holes. The pre-drilled holes were located 1/2" from each edge at each of the four (4) corners and 1/2" from the edge at the center of each of the four (4) sides. Each of the screws were sealed with caulk.

Results:

Direction	Duration of Load	Test Pressure ¹ (psf)	Max Deflection ² (in.)	Permanent Set ² (in.)	Result
Negative Loading	60 sec	-15	NA	NA	Pass
	60 sec	-30	NA	NA	Pass
	60 sec	-45	NA	NA	Pass
	60 sec	-60	NA	NA	Pass
	60 sec	-75	NA	NA	Pass
	60 sec	-90	NA	NA	Pass
	60 sec	-105	NA	NA	Pass
	60 sec	-120	NA	NA	Pass
	60 sec	-135	NA	NA	Pass
	60 sec	-150	NA	NA	Pass
	60 sec	-165	NA	NA	Pass
	60 sec	-180	NA	NA	Pass
	60 sec	-195	NA	NA	Pass
	60 sec	-210	NA	NA	Pass
	60 sec	-225	NA	NA	Pass
	60 sec	-240	NA	NA	Pass
	60 sec	-255	NA	NA	Pass
	60 sec	-270	NA	NA	Pass
	60 sec	-285	NA	NA	Pass
	60 sec	-300	NA	NA	Pass
	0 sec	-312	NA	NA	Fail ³

Note: 1) Polyethylene film; and tape was utilized to prevent excessive air leakage during loading it is the judgment of the test engineer that the film and tape used to seal the specimen against air leakage did not influence the results of the test.

2) Deflection and permanent deformation were not applicable;

3) Failure mode was failure of wood supports in plywood deck

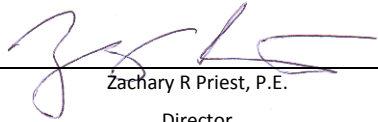
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Statement of Attestation:

Testing was conducted in accordance with **ASTM E 330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference**. The laboratory test results presented in this report are representative of the specimens supplied. This report does not constitute certification of this product which may only be granted by the certification program administer.

Signed:



Zachary R Priest, P.E.
Director

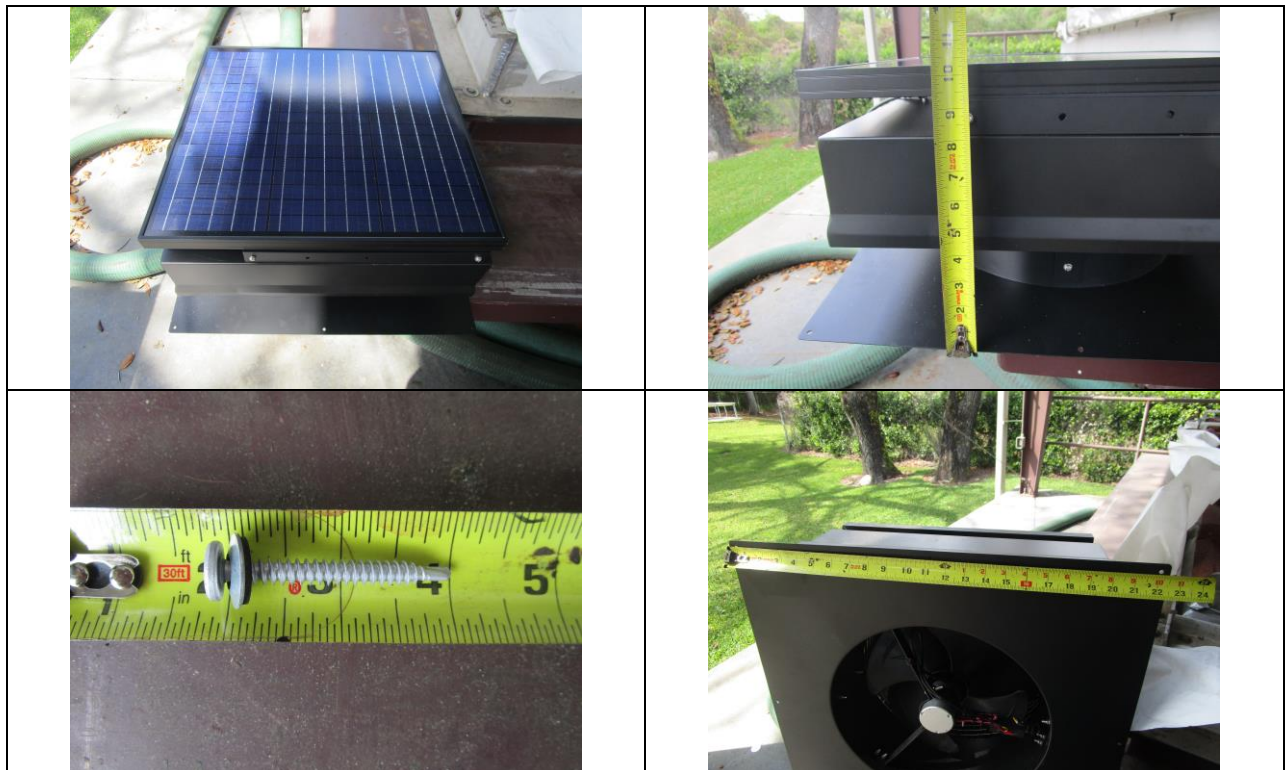
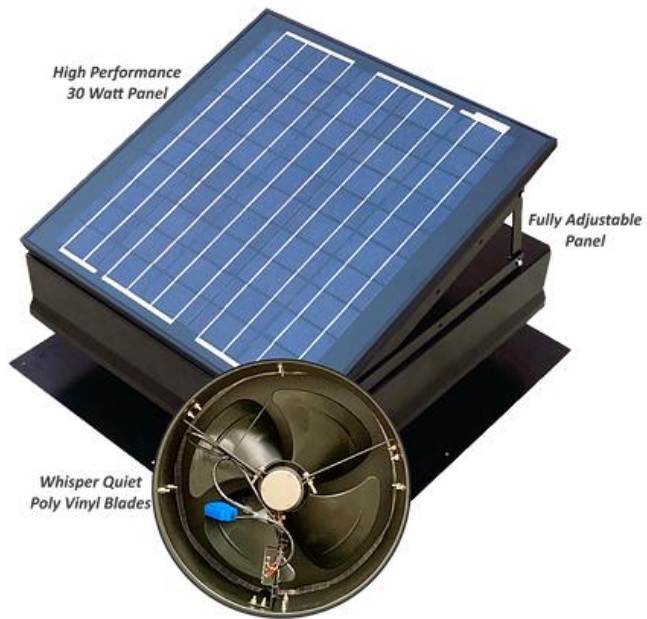
Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	03/30/2020	5	NA

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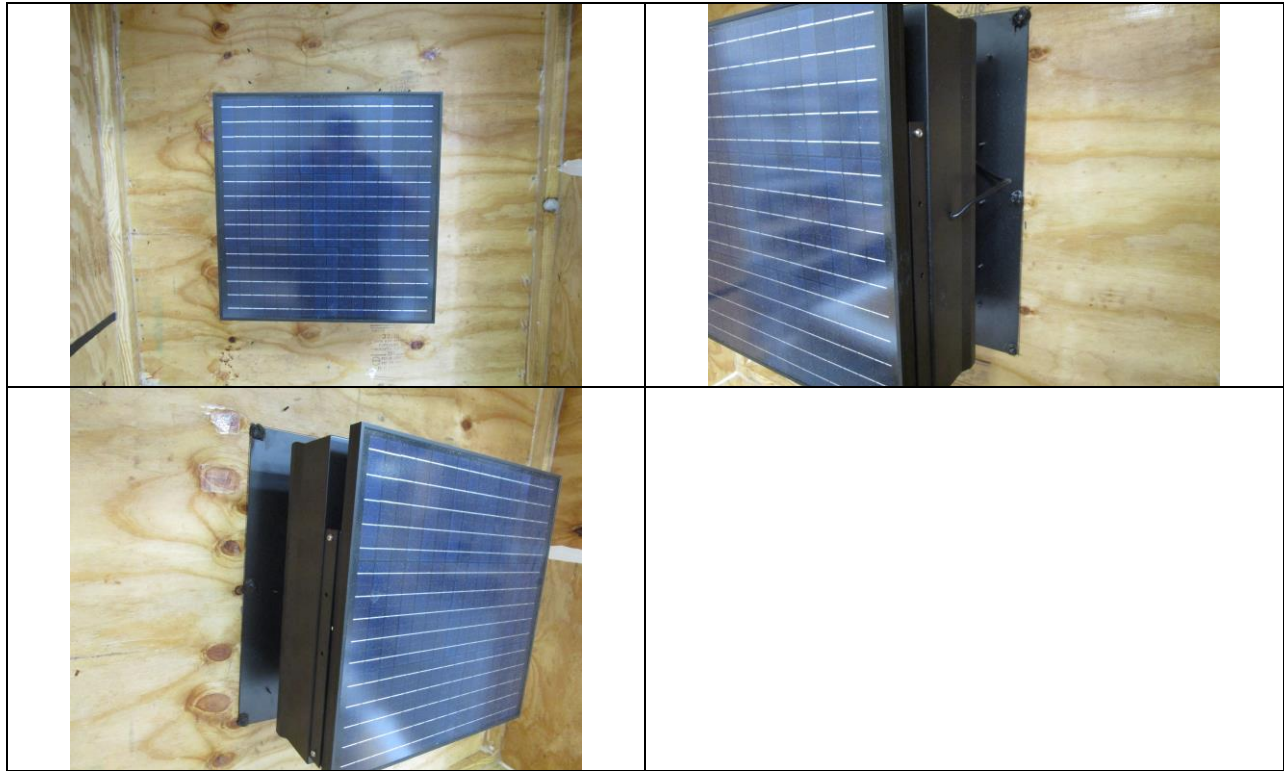
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Test Specimen:



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