

TEST REPORT No. 8983

for

Wind Testing

applied to a

Porch Clear Protection Curtain

in accordance with

Customer Requirement

Dated: 23 June 2021

Submitted to:

PYC Awnings

1111 S Talbot Street
St. Michaels, Maryland 21663

Customer PO#: Credit Card

Report Date: 4 October 2021

Pages: 18

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ENVIRONMENTAL TEST REPORT

Porch Clear Protection Curtain

PYC AWNINGS

EXECUTIVE SUMMARY

E-LABS Incorporated performed Wind Tests on Porch Clear Protection Curtain for PYC Awnings. The Porch Clear Protection Curtain which will be known as Unit Under Test (UUT) throughout this report is identified in *Table ES-1*.

Testing was performed on September 24, 2021. The sequence of the test that was performed is listed in *Table ES-2*. All testing was performed at and under the control of E-LABS Laboratory, 5150 Lad Land Drive, Fredericksburg, VA 22407.

A summary of results of testing are presented in *Table ES-3: Test Summary* and in more detail in *Section 5.2*.

Table ES-1: Unit Under Test

<i>UUT Description</i>	<i>Part Number</i>	<i>Qty</i>	<i>Serial Number</i>
Porch Clear Protection Curtain	123" wide X 98" Drop	1	E-Labs 01

Table ES-2: Tests Applied to Unit Under Test

<i>Test Applied</i>	<i>Procedure</i>
Wind	Customer Requirement: Start with Wind speed of 20 mph and Increase in 10 mph increments to 70 MPH or failure of Curtain or Accessories.

Table ES-3: Test Summary

<i>Date</i>	<i>Test</i>	<i>Results</i>
24Sep21	Wind	There was no visible damage observed at wind speeds up to 70 MPH.

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1. INTRODUCTION

PYC Awnings contracted test services for environmental testing with E-Labs. PYC Awnings provided the UUT, specifications and personnel for performing operational tests.

This report documents the preparations, set-up, methods, and results for the testing performed.

2. TEST FACILITY

Testing was performed by E-LABS, Inc. [www.e-labsinc.com] at its laboratory facility located at 5150 Lad Land Drive in Fredericksburg, Virginia 22407.

3. UNIT UNDER TEST

The UUT was received at E-LABS on September 24, 2021 in 'No Visual Damage' condition.

4. TEST REQUIREMENTS [Applicable Documents (AD)]

Testing of the UUT was conducted in accordance with:

AD-1: E-Labs Quotation Number 08983, dated June 25, 2021

AD-2: Customer Requirement, dated 23 June 2021

5. TESTING

5.1 Preparation

The UUT was sequenced for testing as detailed above in Table ES-3.

All equipment used for accuracy and data recording are calibrated with traceability to the National Institute of Standards and Technology reference standards. See Table 5.1-1 for a list of equipment used and calibration dates.

Table 5.1-1: Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Calibration Dates	
				Date	Due
Stop Watch	Control Company	1042	192527151	1Jan20	1Jan22
Anemometer	Extech	AN100	170802314	19Feb20	19Feb22

5.2 Description of Testing

5.2.1 Wind

Parameters:

- A) Curtain secured to wood frame using customer supplied Headrod Clamps, Side Fasteners and Tiedowns.
- B) Test Sequence:
 - a. Start at 20 mph wind speed
 - b. Dwell for 1 minute
 - c. Increase wind speed by 10 mph
 - d. Repeat Parameters B)c & B)b until failure or 70 mph (whichever is first)
- C) Tested at Site Ambient Conditions

Procedures:

- Step 1) The UUT was secured to the wood frame using the customer supplied Headrod Clamps and Tiedowns per the customer instructions.
- Step 2) The Headrod clamps were used to secure the top of the UUT and the tiedowns were used to secure the lower portion.
- Step 3) The UUT was allowed to relax in the frame and the side fasteners were installed.
- Step 4) The UUT was positioned so that the long face of the curtain is directly in front of and perpendicular to the blowing wind.
- Step 5) The frame was secured and the wind was initiated at 20 mph.

- Step 6) The wind was maintained for 1 minute.
- Step 7) After 1 minute, the wind was stopped and the UUT was visually examined for damage.
- Step 8) The wind velocity was increased by 10 mph and initiated.
- Step 9) Steps 6 through 8 were repeated until the UUT had sustained 70 mph winds for 1 minute.
- Step 10) End of the Wind test.

Results:

There was no visible damage observed on the UUT after exposure to winds up to 70 mph. The UUT met the requirement up to 70 mph.

See Photos 5.2.1-1 thru 5.2.1-9 for the Wind test setup

Photo 5.2.1-1: Wind Test Setup



Photo 5.2.1-2: Wind Test Setup



Photo 5.2.1-3: Wind Test, 20 MPH



Photo 5.2.1-4: Wind Test, 30 MPH



Photo 5.2.1-5: Wind Test, 40 MPH



Photo 5.2.1-6: Wind Test, 50 MPH



Photo 5.2.1-7: Wind Test, 60 MPH



Photo 5.2.1-8: Wind Test, 70 MPH

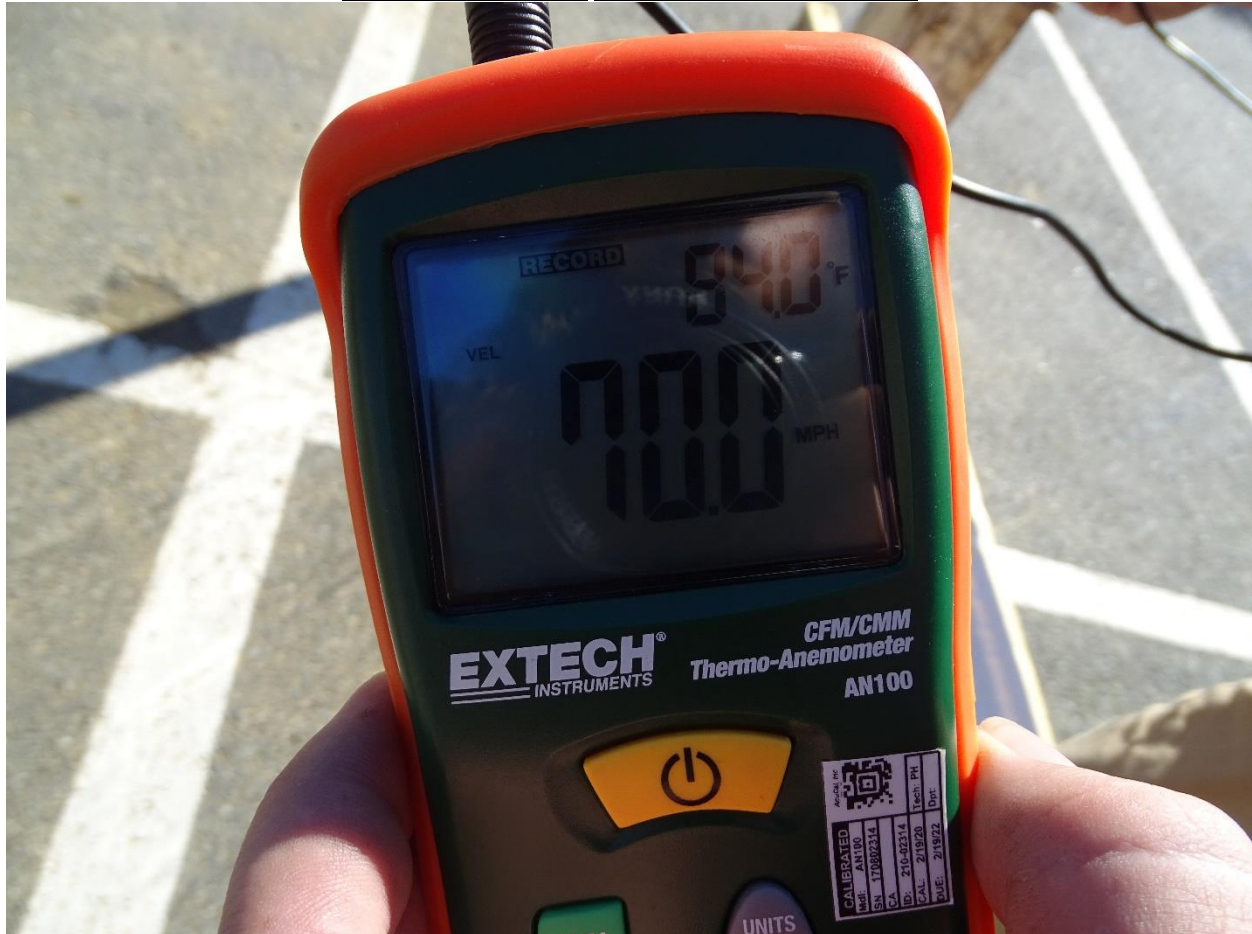


Photo 5.2.1-9: Wind Test, 70 MPH



6. ACCEPTANCE CRITERIA

Acceptability will be contingent upon the ability of the UUT to perform its function before, during and after the test.

7. TEST RESULTS

See table ES-3 and section 5.2 for test results.

8. TEST MODIFICATIONS

None

9. TEST ITEM DISPOSITION

The UUT was returned to PYC Awnings.

10. PERSONNEL

Brandon Malley

11. REPORT DISTRIBUTION

- A. PYC Awnings
1111 S Talbot Street
St. Michaels,
Attention: Sandy Price Email: sandyp@pycawnings.com
- B. E-LABS Job Number 8983

END OF REPORT