

UNIRAC, INC. MIAMI-DADE TEST REPORT

SCOPE OF WORK

TAS 100(A) TESTING ON NRE, SLIDER 3", AND SFM TRIM ATT, SFM

REPORT NUMBER

M6311.01-109-18

TEST DATE(S)

08/06/21

ISSUE DATE

09/13/21

MIAMI-DADE COUNTY NOTIFICATION NO.

ATI 21047

LABORATORY CERTIFICATION NO.

20-0831.14

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TEST REPORT FOR UNIRAC, INC.

Report No.: M6311.01-109-18

Date: 09/13/21

REPORT ISSUED TO

UNIRAC, INC.

1411 Broadway Boulevard NE

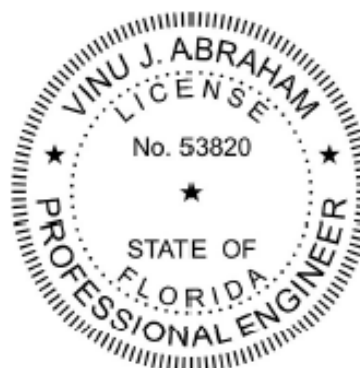
Albuquerque, New Mexico 87102-1545

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Unirac, Inc. to perform TAS 100(A) testing in accordance with Miami-Dade County requirements on NRE, Slider 3", and SFM Trim Att, SFM. Results obtained are tested values and were secured by using the designated test method(s).

Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.



For INTERTEK B&C:

COMPLETED BY: Robert J. Beatty

TITLE: Technician –
Product Testing

SIGNATURE:

Handwritten signature of Robert J. Beatty in black ink.

DATE: 09/13/21

REVIEWED BY: Vinu J. Abraham, P.E.

TITLE: Vice President, Products
Building & Construction

SIGNATURE:

Handwritten signature of Vinu J. Abraham in black ink.

DATE: 09/13/21

RJB:nls

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SECTION 2

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

TAS 100 (A)-95, 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

SECTION 3

MATERIAL SOURCE

Test sample materials were provided by the client from Unirac, Inc. located in Albuquerque, New Mexico. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of ten years from the test completion date.

SECTION 4

EQUIPMENT/CALIBRATION

Vane Axial Fan – Y003346

Stopwatch – INT00974

Weather Station – 63316

Tape Measure Verification – 63788

Windstream, water supply, and water distribution calibration were performed prior to testing. Reference Intertek B&C Calibration Report No. M1448.01-109-18, dated 04/28/21, for descriptions and results.

SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Richard E. Hartman	Intertek B&C
Vinu J. Abraham, P.E.	Intertek B&C
Robert J. Beatty	Intertek B&C



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SECTION 6

TEST SPECIMEN DESCRIPTION

Manufacturer: Unirac, Inc.

Product Type: SFM

Series/Model: NRE, Slider 3", and SFM Trim Att

Roof Deck Description: An 8' 0" wide by 6' 0" long roof deck on a 2:12 slope was utilized. The roof deck consisted of #2 Spruce-Pine-Fir nominal 2x6 intermediate supports sheathed with APA 32/16 span rated 15/32" plywood sheathing. The intermediate supports were spaced 24" on center. The plywood was secured to the rafters with 8d common nails spaced 6" on center around the perimeter and 12" on center at the intermediate supports. The sheathing was covered with #30 felt underlayment and three-tab shingles.

Installation of Unirac® Slider 3" with 3" Flashing: The slider was installed onto a 0.042" thick by 3" wide by 12" long aluminum flashing. A 7/32" hole was drilled prior to the installation of the flashing. The flashing was installed under a row of shingles. The slider was installed through the installation hole of the flashing using a 5/16" x 4" hex head structural screw with a flat EPDM washer. The bolt went through the rubber grommet of the specimen and into the center of one of the rafters of the test deck.

Installation of Unirac® Slider 3" with 8" Flashing: The slider was installed onto a 0.042" thick by 8" wide by 12" long aluminum flashing. A 7/32" hole was drilled prior to the installation of the flashing. The flashing was installed under a row of shingles. The flashing utilized a U-shaped bead of silicone sealant on the underside. The slider was installed through the installation hole of the flashing using a 5/16" x 4" hex head structural screw with a flat EPDM washer. The bolt went through the rubber grommet of the specimen and into the center of one of the rafters of the test deck.

Installation of Unirac® SFM Trim Att with 3" Flashing: The SFM Trim Att was installed onto a 0.042" thick by 3" wide by 12" long aluminum flashing. A 7/32" hole was drilled prior to the installation of the flashing. The flashing was installed under a row of shingles. The flashing utilized a U-shaped bead of silicone sealant on the underside. The SFM Trim Att was installed through the installation hole of the flashing using a 5/16" x 4" hex head structural screw with a flat EPDM washer. The bolt went through the rubber grommet of the specimen and into the center of one of the rafters of the test deck.

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Installation of Unirac® SFM Trim Att with 8" Flashing: The SFM Trim Att was installed onto a 0.042" thick by 8" wide by 12" long aluminum flashing. A 7/32" hole was drilled prior to the installation of the flashing. The flashing was installed under a row of shingles. The SFM Trim Att was installed through the installation hole of the flashing using a 5/16" x 4" hex head structural screw with a flat EPDM washer. The bolt went through the rubber grommet of the specimen and into the center of one of the rafters of the test deck.

Installation of Unirac® NRE with 3" Flashing: The NRE was installed onto a 0.042" thick by 3" wide by 12" long aluminum flashing. A 7/32" hole was drilled prior to the installation of the flashing. The flashing was installed under a row of shingles. The flashing utilized a U-shaped bead of silicone sealant on the underside. The NRE was installed through the installation hole of the flashing using a 5/16" x 4" hex head structural screw with a flat EPDM washer. The bolt went through the rubber grommet of the specimen and into the center of one of the rafters of the test deck.

Installation of Unirac® NRE with 8" Flashing: The NRE was installed onto a 0.042" thick by 8" wide by 12" long aluminum flashing. A 7/32" hole was drilled prior to the installation of the flashing. The flashing was installed under a row of shingles. The flashing utilized a U-shaped bead of silicone sealant on the underside. The NRE was installed through the installation hole of the flashing using a 5/16" x 4" hex head structural screw with a flat EPDM washer. The bolt went through the rubber grommet of the specimen and into the center of one of the rafters of the test deck.

Unirac® Slider 3" Description: The test specimens consisted of a 1-3/4" wide by 3" long by 1-7/8" tall aluminum extrusion. The base of the aluminum extrusion utilized a 3/8" ID rubber grommet.

Unirac® SFM Trim Att Description: The test specimen consisted of 1-3/4" wide by 3" long by 1-3/8" tall, extruded aluminum base and a 1-5/16" wide by 1-3/8" long by 2-1/4" high formed aluminum mount. The mount was secured to the base with a 0.312"-18 x 7/8" bolt and dovetail clamp. The base of the aluminum extrusion utilized a 3/8" ID rubber grommet.

Unirac® NRE Roof Mount Description: The test specimens consisted of a 1-13/16" wide by 12" long by 1-7/8" tall aluminum extrusion. The base of the aluminum extrusion utilized a 3/8" ID rubber grommet.

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SECTION 7**TEST RESULTS**

Protocol TAS 100(A)-95, *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.*

Test Date(s): 08/06/21

The temperature during testing was 28°C (82°F). The results are tabulated as follows:

Test Procedure: The wind speed intervals were conducted as follows:

Interval No.	Wind Speed (mph)	Time (min)	Water Spray
1	35	15	On
2	0	5	Off
3	70	15	On
4	0	5	Off
5	90	15	On
6	0	5	Off
7	110	5	On
8	0	5	Off

Test Results: The TAS 100(A) test results are as follows:

Wind Speed	Results
35 mph	0 oz.
70 mph	0 oz.
90 mph	0 oz.
110 mph	0 oz.

Total Leakage: 0.00 oz.

Allowable: 13.34 oz.

Result(s): Pass

Notes:*Tested at a 2:12 roof pitch**Test Specimens #1 – #8 were evaluated on a common test deck.*

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**SECTION 8
CONCLUSION**

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends ten years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

**SECTION 9
PHOTOGRAPHS**



**Photo No. 1
Top Side Before Testing**

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Photo No. 2
Underside Before Testing



Photo No. 3
35 MPH Top Side

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Photo No. 4
35 MPH Underside



Photo No. 5
35 MPH Top Side After

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Photo No. 6
70 MPH Top Side



Photo No. 7
70 MPH Underside

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Photo No. 8
70 MPH Top Side After



Photo No. 9
90 MPH Top Side

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Photo No. 10
90 MPH Underside



Photo No. 11
90 MPH Top Side After

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Photo No. 12
110 MPH Top Side



Photo No. 13
110 MPH Underside

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Photo No. 14
Post Test Top Side



Photo No. 15
Post Test Underside

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SECTION 10
DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.