UNIRAC, INC.
MIAMI-DADE TEST REPORT

SCOPE OF WORK
TAS 100(A) TESTING ON FLASHLOC, ROOF MOUNTS

REPORT NUMBER
K1187.01-109-18

TEST DATE(S)
09/09/19

ISSUE DATE REVISED DATE
09/24/19 09/24/19

RECORD RETENTION END DATE
09/09/29

MIA-MI-DADE COUNTY NOTIFICATION NO.
ATI 19048

LABORATORY CERTIFICATION NO.
18-0524.13

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TEST REPORT FOR UNIRAC, INC.
Report No.: K1187.01-109-18
Revision 1: 09/24/19
Date: 09/24/19

REPORT ISSUED TO
UNIRAC, INC.
1411 Broadway Blvd. NE
Albuquerque, New Mexico 87102-1545

SECTION 1
SCOPE
Intertek Building & Construction (B&C) was contracted by Unirac, Inc. to perform TAS 100(A) testing in accordance with Miami-Dade County requirements on their FLASHLOC, Roof Mounts. 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. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

COMPLETED BY: Robert J. Beatty
TITLE: Technician – Product Testing
SIGNATURE: 
DATE: 09/24/19
RJB:wnl

REVIEWED BY: Daniel C. Culbert, P.E.
TITLE: Senior Project Engineer
SIGNATURE: 
DATE: 09/24/19
2019.09.25 09:59:46 -04'00'

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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
CALIBRATION

Windstream, water supply, and water distribution calibration were performed prior to testing. Reference Intertek B&C Calibration Report No. K1181.01-109-18, dated 9/16/19, for descriptions and results.

SECTION 4
MATERIAL SOURCE

Test specimens were provided by the client. 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 5
EQUIPMENT

Vane Axial Fan – Y003346

SECTION 6
LIST OF OFFICIAL OBSERVERS

<table>
<thead>
<tr>
<th>NAME</th>
<th>COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tyler J. Holland</td>
<td>Intertek B&amp;C</td>
</tr>
<tr>
<td>Timothy J. McGill</td>
<td>Intertek B&amp;C</td>
</tr>
<tr>
<td>Daniel C. Culbert, P.E.</td>
<td>Intertek B&amp;C</td>
</tr>
<tr>
<td>Robert J. Beatty</td>
<td>Intertek B&amp;C</td>
</tr>
</tbody>
</table>
SECTION 7
TEST SPECIMEN DESCRIPTION

Test Deck Description: An 8' 0" wide by 6' 0" long roof deck with 2:12 slope was utilized. The roof deck consisted of #2 Spruce-Pine-Fir nominal 2x6 rafters sheathed with 15/32" plywood. The rafters were spaced 24" on center. The plywood was secured to the rafters with 1-5/8" drywall screws spaced 6" on center around the perimeter and 12" on center at the intermediate supports. The plywood sheathing was covered with torch-applied roof membrane.

Test Specimen Installation: Each specimen was centered on a 2x6 rafter and was secured with a 5/16" x 4" hex head lag bolt with a stainless steel-back EPDM washer through the Flashloc Comp Mount into the rafter. The Flashloc Comp Mounts were completely filled with sealant. Test Specimens #1 and #2 utilized DuraLink™ 50 sealant. Test Specimens #3 and #4 utilized M-1® sealant. The sealant was allowed to cure for 24 hours.

Test Specimen Description: The test specimens were formed from cast aluminum and measured approximately 3-3/4" wide by 2-1/4" high by 3-1/2" tall. (Reference Drawing Number P28503006)

General Note: Four specimens were installed to each test deck. The specimens were spaced 24" on center to facilitate separate performance evaluation and water collection for each test specimen.
SECTION 8
TEST RESULTS

Protocol TAS 100(A)-95, Wind Driven Rain

Test Specimens #1 and #2 with DuraLink™ 50 sealant

Test Date(s): 09/09/19
The temperature during testing was 22°C (71°F). The results are tabulated as follows:

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

<table>
<thead>
<tr>
<th>Interval No.</th>
<th>Wind Speed (mph)</th>
<th>Time (min)</th>
<th>Water Spray</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>35</td>
<td>15</td>
<td>On</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
<td>5</td>
<td>Off</td>
</tr>
<tr>
<td>3</td>
<td>70</td>
<td>15</td>
<td>On</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>5</td>
<td>Off</td>
</tr>
<tr>
<td>5</td>
<td>90</td>
<td>15</td>
<td>On</td>
</tr>
<tr>
<td>6</td>
<td>0</td>
<td>5</td>
<td>Off</td>
</tr>
<tr>
<td>7</td>
<td>110</td>
<td>5</td>
<td>On</td>
</tr>
<tr>
<td>8</td>
<td>0</td>
<td>5</td>
<td>Off</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Wind Speed</th>
<th>Results</th>
<th>Allowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 mph</td>
<td>0 oz.</td>
<td>N/A</td>
</tr>
<tr>
<td>70 mph</td>
<td>0 oz.</td>
<td>N/A</td>
</tr>
<tr>
<td>90 mph</td>
<td>0 oz.</td>
<td>N/A</td>
</tr>
<tr>
<td>110 mph</td>
<td>0 oz.</td>
<td>N/A</td>
</tr>
<tr>
<td>Total</td>
<td>0 oz.</td>
<td>13.6 oz.</td>
</tr>
</tbody>
</table>

Results: Pass

General Note: Each configuration was evaluated separately with no leakage at the mount locations during or after the test.
Test Specimens #3 and #4 with M-1® sealant

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

<table>
<thead>
<tr>
<th>Interval No.</th>
<th>Wind Speed (mph)</th>
<th>Time (min)</th>
<th>Water Spray</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>35</td>
<td>15</td>
<td>On</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
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<td>Off</td>
</tr>
<tr>
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<td>15</td>
<td>On</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>5</td>
<td>Off</td>
</tr>
<tr>
<td>5</td>
<td>90</td>
<td>15</td>
<td>On</td>
</tr>
<tr>
<td>6</td>
<td>0</td>
<td>5</td>
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</tr>
<tr>
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<td>5</td>
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</tr>
<tr>
<td>8</td>
<td>0</td>
<td>5</td>
<td>Off</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Wind Speed</th>
<th>Results</th>
<th>Allowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>35 mph</td>
<td>0 oz.</td>
<td>N/A</td>
</tr>
<tr>
<td>70 mph</td>
<td>0 oz.</td>
<td>N/A</td>
</tr>
<tr>
<td>90 mph</td>
<td>0 oz.</td>
<td>N/A</td>
</tr>
<tr>
<td>110 mph</td>
<td>0 oz.</td>
<td>N/A</td>
</tr>
<tr>
<td>Total</td>
<td>0 oz.</td>
<td>13.6 oz.</td>
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</table>

Results: Pass

General Note: Each configuration was evaluated separately with no leakage at the mount locations during or after the test.
SECTION 9
PHOTOGRAPHS

Photo No 1
Test Specimens #1 and #2 Before Testing

Photo No. 2
Test Specimens #3 and #4 Before Testing
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Photo No. 3
Underside of Test Specimens #1 and #2 Before Testing

Photo No. 4
Underside of Test Specimens #3 and #4 Before Testing
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Photo No. 5
35 MPH

Photo No. 6
70 MPH
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Photo No. 9
Underside of Test Specimens #1 and #2 After Testing

Photo No. 10
Underside of Test Specimens #3 and #4 After Testing
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.
### SECTION 11
### REVISION LOG

<table>
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<td>Added statement: “The sealant was allowed to cure for 24 hours.”</td>
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