

K2 SYSTEMS LLC

MIAMI-DADE

TEST REPORT

SCOPE OF WORK

TAS 100(A) TESTING ON SPLICE FOOT, SOLAR MOUNT

REPORT NUMBER

M1453.01-109-18

TEST DATE

04/22/21

ISSUE DATE

05/18/21

MIAMI-DADE COUNTY NOTIFICATION NO.

ATI 21016

LABORATORY CERTIFICATION NO.

20-0831.14

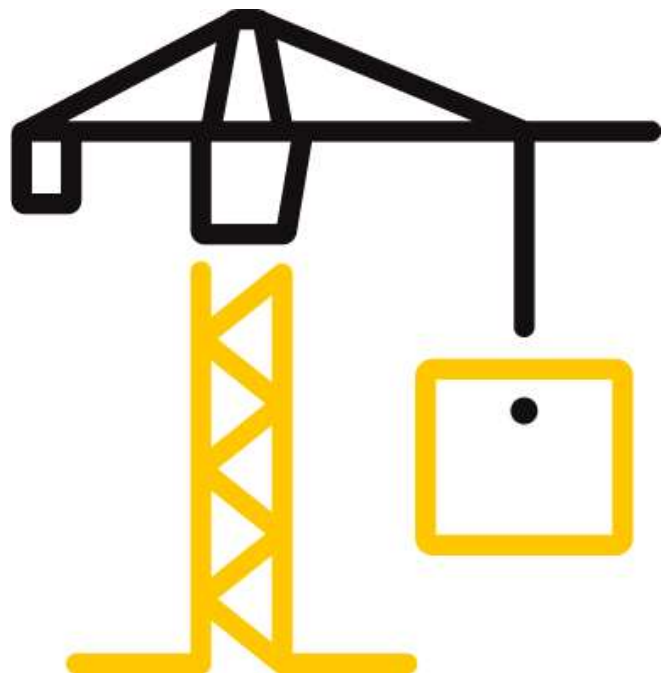
PAGES

14

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-7808 (05/23/19)

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TEST REPORT FOR K2 SYSTEMS LLC

Report No.: M1453.01-109-18

Date: 05/18/21

REPORT ISSUED TO

K2 SYSTEMS LLC

2835 La Mirada Drive, Suite A
Vista, California 92081

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by K2 Systems LLC to perform TAS 100(A) testing in accordance with Miami-Dade County requirements on their Splice Foot, solar mount. 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.

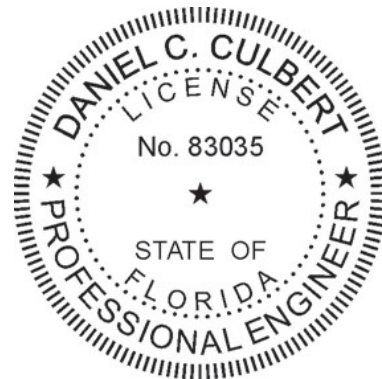
This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends ten years after the test date. Test records, such as detailed drawings, 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 2

SUMMARY OF TEST RESULTS


The specimen tested met the performance requirements set forth in the protocols.



For INTERTEK B&C:


COMPLETED BY: Kyle W. Ruth
Technician –
Product Testing

TITLE:

SIGNATURE: 
Digitally Signed by: Kyle Ruth
DATE: 05/18/21

REVIEWED BY: Daniel C. Culbert, P.E.

TITLE: Senior Project Engineer

SIGNATURE: 
Digitally Signed by: Daniel Craig Culbert
DATE: 05/18/21

KWR:nls

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TEST REPORT FOR K2 SYSTEMS LLC

Report No.: M1453.01-109-18

Date: 05/18/21

SECTION 3**TEST METHOD(S)**

The specimen was 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 4**MATERIAL SOURCE**

Test sample materials were provided by the client from K2 Systems LLC located in Vista, California. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of ten years from the test completion date.

SECTION 5**EQUIPMENT/CALIBRATION**

Vane Axial Fan – Y003346

Pressure Gauge – INT02030

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 6**LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Robert J. Beatty	Intertek B&C
Timothy J. McGill	Intertek B&C
Daniel C. Culbert, P.E.	Intertek B&C
Kyle W. Ruth	Intertek B&C

TEST REPORT FOR K2 SYSTEMS LLC

Report No.: M1453.01-109-18

Date: 05/18/21

SECTION 7**TEST SPECIMEN DESCRIPTION****Manufacturer:** K2 Systems LLC**Product Type:** Solar Mount**Series/Model:** Splice Foot

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. 30# felt paper underlayment was utilized over the sheathing. Three-tab shingles were then installed on the roof deck.

Solar Mount Description/Installation: The mount was composed of 4" wide by 3-1/2" long by 2" high extruded aluminum. A 1/8" thick butyl pad was adhered to the underside of the base. The mount was installed over the shingles, 18" from the ridge. The mount was secured with two M 5.0 x 60mm hex head screws with washer and EPDM sealing washer. The fasteners were located through the mount and into the rafter.

TEST REPORT FOR K2 SYSTEMS LLC

Report No.: M1453.01-109-18

Date: 05/18/21

SECTION 8

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): 04/22/21

The temperature during testing was 2°C (35°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	0.0 oz.
70 mph	0.0 oz.
90 mph	0.0 oz.
110 mph	0.0 oz.

Allowable Leakage: 13.34 oz.

Result(s): Pass

Note: Tested at a 2:12 roof pitch

TEST REPORT FOR K2 SYSTEMS LLC

Report No.: M1453.01-109-18

Date: 05/18/21

SECTION 9
PHOTOGRAPHS



Photo No. 1
Top Side Before Testing



Photo No. 2
Underside Before Testing

TEST REPORT FOR K2 SYSTEMS LLC

Report No.: M1453.01-109-18

Date: 05/18/21



Photo No. 3
35 MPH Top Side



Photo No. 4
35 MPH Underside

TEST REPORT FOR K2 SYSTEMS LLC

Report No.: M1453.01-109-18

Date: 05/18/21



Photo No. 5
70 MPH Top Side



Photo No. 6
70 MPH Underside

TEST REPORT FOR K2 SYSTEMS LLC

Report No.: M1453.01-109-18

Date: 05/18/21



Photo No. 7
90 MPH Top Side



Photo No. 8
90 MPH Underside

TEST REPORT FOR K2 SYSTEMS LLC

Report No.: M1453.01-109-18

Date: 05/18/21



Photo No. 9
110 MPH Top Side



Photo No. 10
110 MPH Underside

TEST REPORT FOR K2 SYSTEMS LLC

Report No.: M1453.01-109-18

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Photo No. 11
Post Test Top Side



Photo No. 12
Post Test Underside



Total Quality. Assured.

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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.



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Date: 05/18/21

SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	05/18/21	N/A	Original Report Issue