

SUNSTACK, LLC

TEST REPORT

SCOPE OF WORK

ANSI/UL 441, SECTION 27 TESTING ON
SUNSTACK BASE (SS01-MB-00), SSM SOLAR MOUNT (RAFTER MOUNT)

REPORT NUMBER

Q8649.01-109-44

TEST DATE

12/14/23

ISSUE DATE

02/05/24

RECORD RETENTION END DATE

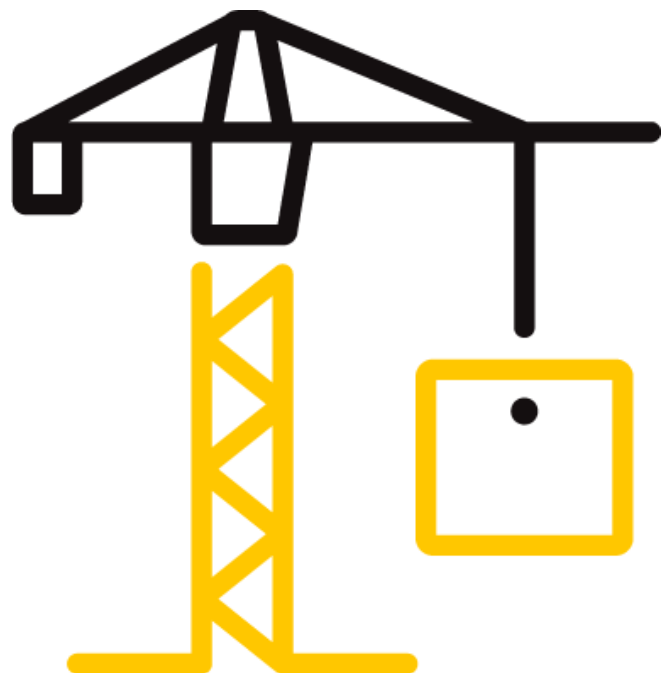
12/14/27

PAGES

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DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2805 (10/12/23)
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TEST REPORT FOR SUNSTACK, LLC

Report No.: Q8649.01-109-44

Date: 02/05/24

REPORT ISSUED TO

SUNSTACK, LLC

2300 W Sahara Ave

Las Vegas, NV 89102

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by SunStack, LLC to perform testing in accordance with UL 441, Section 27, on their SunStack Base (SS01-MB-00), SSM solar mount (rafter mount). Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at 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 four 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

SERIES/MODEL	2:12 ROOF PITCH
SunStack Base (SS01-MB-00)	PASS

For INTERTEK B&C:

COMPLETED BY:	Jason R. Zeller	REVIEWED BY:	Ken R. Stough
TITLE:	Technician – Product Testing	TITLE:	Project Manager – Product Testing
SIGNATURE:	 Digitally Signed by: Jason Zeller	SIGNATURE:	 Digitally Signed by: Ken Stough
DATE:	02/05/24	DATE:	02/05/24

JRZ:mas

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SECTION 3**TEST METHOD**

The specimen was evaluated in accordance with the following:

ANSI/UL 441 (2010), *UL Standard for Safety for Gas Vents, Section 27: Rain Test*, Underwriters Laboratories, Inc.

SECTION 4**MATERIAL SOURCE/INSTALLATION**

Test specimen was provided by the client. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of four years from the test completion date.

SECTION 5**EQUIPMENT**

Tape Measure Verification: 63788

Weather Station: 63316

Water Pressure Gauge: INT01184, INT01385, INT01386

Stopwatch: INT00975

SECTION 6**LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Ken R. Stough	Intertek B&C
Jason R. Zeller	Intertek B&C

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SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: SSM Solar Mount (Rafter Mount)

Series/Model: SunStack Base (SS01-MB-00)

Product Size:

OVERALL AREA:	WIDTH		HEIGHT		LENGTH	
	millimeters	inches	millimeters	inches	millimeters	inches
<0.1 m ² (0.1 ft ²)						
L base size	55	2-11/64	79	3-1/8	124	4-7/8
Receive base size	55	2-11/64	3	7/64	132	5-13/64

Deck Construction: The test deck measured 3' wide by 3' long and was constructed of #2 Spruce-Pine-Fir nominal 2x6 lumber. One stud was centered on the deck for bolt attachment. Studs were attached to the top and bottom plates with #8 x 3" long drywall screws. A sheet of nominal 1/2" thick plywood was secured to the studs with #8 x 1-5/8" drywall screws. Silicone was utilized on the backside of the test panel to seal the perimeter. Felt paper underlayment was stapled onto the plywood and three-tab asphalt shingles were nailed to the test deck.

Installation of SunStack (SS01-MB-00) SSM Solar Mount: The test specimen was installed by Intertek B&C per the recommended manufacturer's installation instructions. The test specimen was centered over the stud and secured with two #14 x 2-3/8" hex head wood screw with washer and watertight rubber gasket. The test specimen consisted of a formed aluminum L base and a formed aluminum receive base. A 2-11/64" wide by 5-13/64" long by 1/8" thick pad of SS butyl tape was applied to the underside of the receive base.

SECTION 8

TEST RESULTS

The temperature during testing was 21°C (69°F). The results are tabulated as follows:

TITLE OF TEST	RESULTS	ALLOWED
Water Penetration, per ANSI/UL 441 One hour of water spray	Pass	No leakage

General Note: All testing was performed in accordance with the referenced standard(s). Testing was performed at a 2:12 pitch.

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SECTION 9

PHOTOGRAPHS



Photo No. 1

SunStack (SS01-MB-00) SSM Solar Mount, Top View



Photo No. 2

SunStack (SS01-MB-00) SSM Solar Mount, Bottom View



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.