

SNR SOLAR LLC. DBA SNAPNRACK

MIAMI-DADE TEST REPORT

SCOPE OF WORK

TAS 100(A)-23 TESTING ON ULTRAFOOT, RAFTER (SPECIMEN E)

REPORT NUMBER

S1173.01-109-18 R1

TEST DATE

12/16/24

ISSUE DATE REVISION DATE

01/21/25 02/04/25

MIAMI-DADE COUNTY NOTIFICATION NO.

ATI 24086

LABORATORY CERTIFICATION NO.

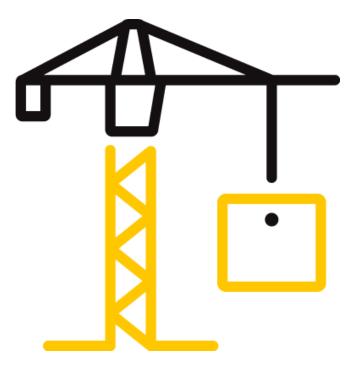
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PAGES

18

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-7808 (06/05/24) © 2019 INTERTEK





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TEST REPORT FOR SNR SOLAR LLC. DBA SNAPNRACK

Report No.: S1173.01-109-18 R1

Date: 01/21/25 Revision 1: 02/04/25

REPORT ISSUED TO

SNR SOLAR LLC. DBA SNAPNRACK 775 Fiero Lane, Suite 200 San Luis Obispo, California 93401

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by SNR Solar LLC. dba SnapNrack to perform TAS 100(A) testing in accordance with Miami-Dade County requirements on their UltraFoot, Rafter (Specimen E). 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: Christopher E. Sartalis **REVIEWED BY:** Tanya A. Dolby, P.E. Technician -Engineering Manager -TITLE: **Engineering Services** TITLE: **Product Testing SIGNATURE: SIGNATURE:** 02/04/25 02/04/25 DATE: DATE:

CES:mas

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SECTION 2

TEST METHOD

The specimen was evaluated in accordance with the following:

TAS 100 (A)-23, 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 SNR Solar LLC. dba SnapNrack located at San Luis Obispo, California. 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

Wind Generator - Vane Axial Fan Y00346 Scale – 65571 Stopwatch – INT00975 Weather Station – 63316

Windstream, water supply, and water distribution calibration were performed prior to testing. Reference Intertek B&C Calibration Report No. R5185.05-109-18, dated 11/04/24, for descriptions and results.

SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Tyler J. Holland	Intertek B&C
Timothy J. McGill	Intertek B&C
Tanya A. Dolby, P.E.	Intertek B&C
Christopher E. Sartalis	Intertek B&C

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SECTION 6

TEST SPECIMEN DESCRIPTION

Manufacturer: SNR Solar LLC. dba SnapNrack

Series/Model: UltraFoot Rafter

Product Type: Rafter Mount, (Specimen E)

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 normal 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 plywood sheathing was covered with 30# felt underlayment and three-tab shingles.

UltraFoot Description/ Installation: The solar mounts were constructed of 2" wide by 2-3/16" long by 3" high, 3/16" thick extruded aluminum. Approximately 18" down from the ridge, 3/16" pilot holes were drilled down through shingle and sheathing into the rafter. The butyl pads were adhered to the shingle over the pilot holes. The two mounts were fastened using 5/16" x 4-1/2" lag screws with EPDM backed washer through the mount and sheathing into the rafter.

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SECTION 7

TEST RESULTS

Protocol TAS 100(A)-23, 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): 12/16/24

The temperature during testing was 6°C (42°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	7 110		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.

Result(s): Pass

Note 1: Tested at a 2:12 roof pitch.

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SECTION 8

CONCLUSION

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

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will 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.

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SECTION 9

PHOTOGRAPHS



Photo No. 1
Top Side Before Testing



Photo No. 2 Underside Before Testing



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Photo No. 3 35 MPH Top Side



Photo No. 4 35 MPH Underside



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Photo No. 5 70 MPH Top Side



Photo No. 6 70 MPH Underside



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Photo No. 7 90 MPH Top side



Photo No. 8 90 MPH Underside



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Photo No. 9 110 MPH Top Side



Photo No. 10 110 MPH Underside



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TEST REPORT FOR SNR SOLAR LLC. DBA SNAPNRACK

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Photo No. 11 Post Test Top Side



Photo No. 12 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.

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NOTES:			BOM: ULTR	RAFOOT PRODUCTS				REVISION:	
THIS SYSTEM COMPLIES WITH THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING HVHZ	ITEM	DESCRIPTION		MATERI	IAL	MIN YIELD (KSI)	MINIMUM ULTIMATE (KSI)	<u>A 2/3/2025 REI</u> — ———————————————————————————————————	EASED MJA
2. THIS SYSTEM HAS BEEN TESTED TO THE TAS100(A) AND ASTM D7147 STANDARDS. IMPACT RESISTANCE IS NOT REQUIRED, AS IT IS NOT	ACT RESISTANCE IS NOT REQUIRED, AS IT IS NOT 1 BOLT WIDE FLANGE 5/16"-18			STAINLESS STEEL,	300 SEDIES	60	95	ļ <i>— ——— —</i>	
PART OF THE BUILDING ENVELOPE	G ENVELOPE			STAINLESS STEEL,		N/A	N/A		
3. INSTALLATIONS MUST FOLLOW THE SNAPNRACK ULTRA RAIL SYSTEM INSTALLATION MANUAL		OOT BASE (RAFTER, DEC	K OB ANCHOR	-		34	38		
4. PV PANELS ARE NOT PART OF THIS APPROVAL		CLAMP, THRU	it, oit Aiterioit,	ALUMINUM, 6000 S		34	38		
5. DESIGN OF THE ROOF SUBSTRATE AND STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD (EOR) AND IS NOT		CLAMP, TAP		ALUMINUM, 6000 S		34	38		
PART OF THIS APPROVAL		AL+ FLASHING SYSTEM		BUTYL RUBBER		N/A	N/A		
	OOT, RAFTER DATE:	DESCRIPTION:	3.050 [77.47]	RAFOOT, DECK	3.00 [76.20]	DRAWING N		2.18 2.18 5 5 OT, ANCHOR	3.00 76.201
FE SIGNATURE.	DAIL.					DRAWING N			KLV.
		ULTRA RAIL F	V MOUNTING SYS ATTACHMEN	STEM WITH ULTRAFOO NTS FAMILY	T ROOF		SNR-DC-004	85	_
	775 FIEF	RO LANE, SUITE 200	UNITS:	DATE:	SHEET SIZE:	SCALE:	SHEET	NUMBER:	⊢ A
SNR SOLAR LLO	SAN LUI	S OBISPO, CA 93401 C@SNAPNRACK.COM	IN, LB, DEG [MM, KG, DEG]	2/3/2025	11 IN X 17 IN	1	NTS	1 OF 5	

DESCRIPTION:

ITEM

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SNAPNRACK, ULTRAFOOT, RAFTER

PART NUMBER(S):

242-10056

UNITS: IN, LB, DEG [MM, KG, DEG] SHEET: 1:2 DOC NUMBER: SNR-DC-01436

DRAWN BY:

H.WULFEKOETTER

REV:

DATE:

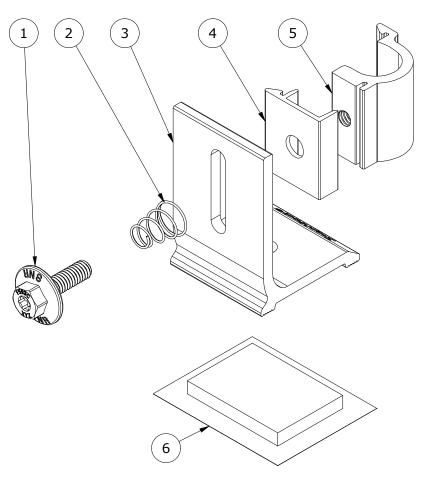
Α

8/28/2024

SnapNrack*

SNR SOLAR LLC

775 FIERO LANE, SUITE 200
SAN LUIS OBISPO, CA 93401 USA
EMAIL: CONTACT@SNAPNRACK.COM
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REPRODUCTION, DISCLOSINE, OR USE THEREOF IS PROHIBITED WITHOUT THE
WRITTEN CONSENT OF SIRR SOLAR LLC.



PARTS LIST

SNAPNRACK, ULTRA RAIL MOUNT SPRING, SS

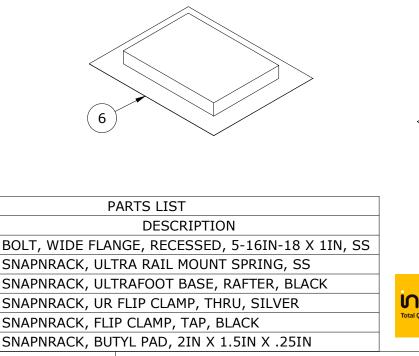
SNAPNRACK, UR FLIP CLAMP, THRU, SILVER

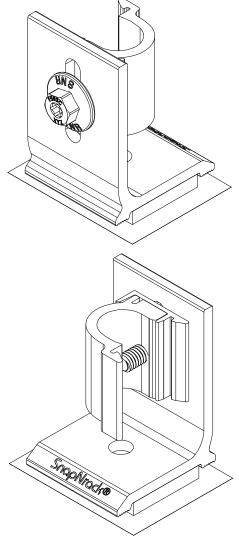
SNAPNRACK, BUTYL PAD, 2IN X 1.5IN X .25IN

SNAPNRACK, FLIP CLAMP, TAP, BLACK

SNAPNRACK, ULTRAFOOT BASE, RAFTER, BLACK

DESCRIPTION





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intertek Total Quality, Assured.	Date
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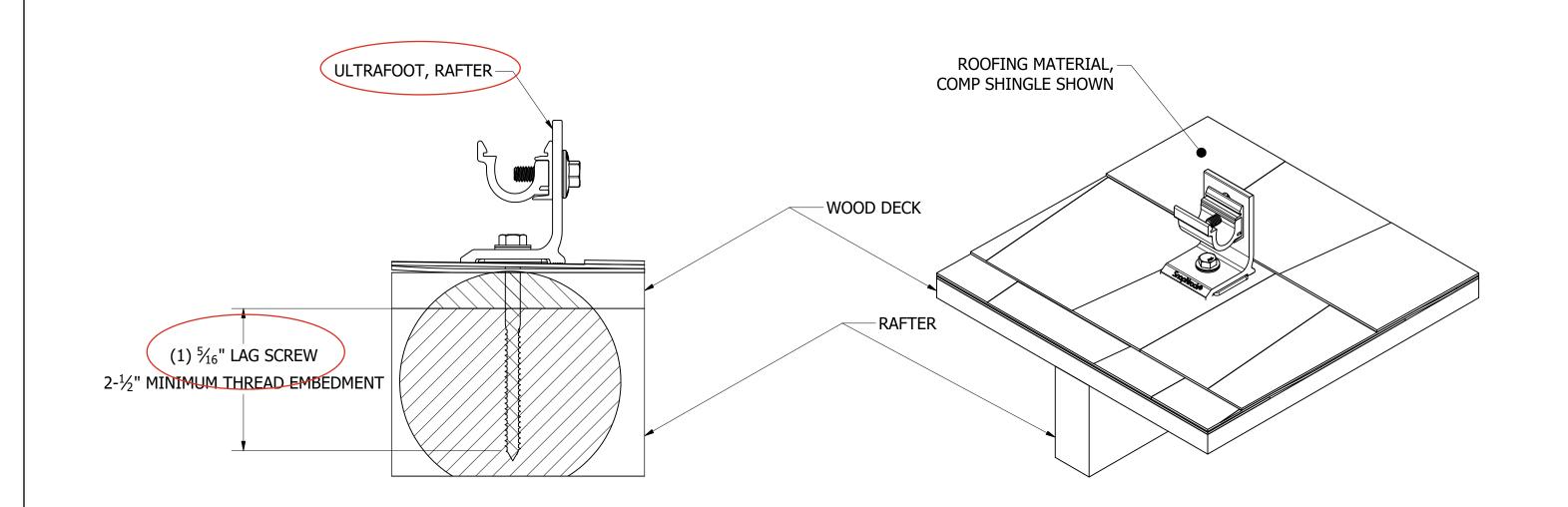
ort #: S1173.01 02/04/25 ece. Lee ified by:

MATERIALS:	6000 SERIES ALUMINUM & 300 SERIES STAINLESS STEEL	
DESIGN LOAD (LBS): VARIES, REFER TO SNAPNRACK ENGINEERING		
ULTIMATE LOAD (LBS):	VARIES, REFER TO SNAPNRACK ENGINEERING	
TORQUE SPECIFICATION:	16 FT-LBS FT-LBS	
CERTIFICATION:	UL 2703, FILE E359313;	
WEIGHT (LBS):	.365	

DESCRIPTION: DOC NUMBER: SnapNrack* SNAPNRACK, ULTRAFOOT, RAFTER SNR-DC-01436 DRAWN BY: PART NUMBER(S): **H.WULFEKOETTER** SNR SOLAR LLC THE INFO LANE, SUITE 200
SAN LUIS OBISPO, CA 93401 USA
EMAIL: CONTACT @SNAPNRACK.COM
THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY. ANY
REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PROHIBITED WITHOUT THE
WRITTEN CONSENT OF SINS FOLAR LLC. REV: DATE: 242-10056 Α 8/28/2024 UNITS: IN, LB, DEG [MM, KG, DEG] **SHEET: 2:2** 2.00 [50.8] 1.00 [25.4] 1.00 [25.4] 1.25 [31.8] **SLOT** 1.10 [27.8] SnapNrack® **SECTION A-A BACK** 1.50 [38.1] .20 [5.1]2.19 155.51 (3.00) 2.88 1.63 [76.2] 73.2 41.4 SnapNrack® .15 **TOP** [3.9] 1.44 .10 .30 Report #: S1173.01 [36.6] [2.5]intertek 02/04/25 Verified by: Charles Sac

S1173.01 Report #: Total Quality. Assured. 02/04/25 Verified by: Chate 8. Sate

	VISION:		
<u>A</u>	2/3/2025	RELEASED	<u>MJA</u>
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REV: PE SIGNATURE: PE DATE: **DESCRIPTION:** DRAWING NUMBER: ULTRA RAIL PV MOUNTING SYSTEM WITH ULTRAFOOT ROOF SNR-DC-00485 ATTACHMENTS FAMILY UNITS: SCALE: SHEET NUMBER: SHEET SIZE: 775 FIERO LANE, SUITE 200 SAN LUIS OBISPO, CA 93401 CONTACT@SNAPNRACK.COM DATE: SNR SOLAR LLC IN, LB, DEG [MM, KG, DEG]

2/3/2025

11 IN X 17 IN

NTS

3 OF 5



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SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	01/21/25	N/A	Original Report Issue
1	02/04/25	14-17	Revised Drawings