

SNR SOLAR LLC. DBA SNAPNRACK

MIAMI-DADE TEST REPORT

SCOPE OF WORK

TAS 100(A)-23 TESTING ON ULTRAFOOT, ANCHOR (SPECIMEN C AND D)

REPORT NUMBER

S1171.01-109-18 R1

TEST DATE

12/17/24

ISSUE DATE REVISION DATE

01/21/25 02/04/25

MIAMI-DADE COUNTY NOTIFICATION NO.

ATI 24085

LABORATORY CERTIFICATION NO.

22-0428.14

PAGES

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DOCUMENT CONTROL NUMBER

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TEST REPORT FOR SNR SOLAR LLC. DBA SNAPNRACK

Report No.: S1171.01-109-18 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 UltraFoot, Anchor in rafter and deck mounted configurations (Specimen C and D). 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 -**Engineering Services** TITLE: **Product Testing** TITLE: **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 Anchor

Product Type: Deck and Rafter Mount, (Specimen C & D)

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 Anchor Installation/Description: The mounts were constructed of 3-3/4" wide by 2-3/16" long by 3" high, 3/16" thick extruded aluminum. Approximately 18" down from the ridge, two 3/16" pilot holes, one for each mount, were drilled down through the shingles and sheathing and into the rafter. The butyl pads on the bottom of the mounts were adhered to the shingle over the pilot holes. A total of four specimens were installed on the test deck. Two of the specimens were fastened using one 5/16" x 4-1/2" lag screw with EPDM backed washer, through the middle hole of the mount, through the sheathing, and into the rafter. Two specimens were fastened using two SnapNrack DeckAnchors (2.5) with EPDM backed washer, through the mount, and into the sheathing.

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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): 12/17/24

The temperature during testing was 12°C (54°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	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.

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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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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NO	TES:				POM: III T	AEOOT DDODLICTS				DEVICION.		
	THIS SYSTEM COMPLIES WITH THE 8TH EDITION (2023) FLORIDA				BOM: ULTRAFOOT PRODUCTS		MIN YIELD MINIMUM		REVISION: <u>A 2/3/2025</u>	RELEASED	MJA	
,	BUILDING CODE, INCLUDING HVHZ	ITEM		DESCRIPTION		MATERIAL		(KSI)	ULTIMATE (KSI)			
2.	THIS SYSTEM HAS BEEN TESTED TO THE TAS100(A) AND ASTM DESTANDARDS. IMPACT RESISTANCE IS NOT REQUIRED, AS IT IS NO		1 BOLT, WIDE FLANGE, 5/16"-18			STAINLESS STEEL, 300 SERIES		60	95	4		
	PART OF THE BUILDING ENVELOPE		SPRING	1 LANGE, 3/10 -10				N/A	N/A	 		
3.	INSTALLATIONS MUST FOLLOW THE SNAPNRACK ULTRA RAIL SYS INSTALLATION MANUAL	1EM 2		RASE (DAETED DE	·			34	38	1		
4.	PV PANELS ARE NOT PART OF THIS APPROVAL	4	UR FLIP CLAI	•			34	38				
5.	DESIGN OF THE ROOF SUBSTRATE AND STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD (EOR) AND IS NO	T 5	UF FLIP CLAN			ALUMINUM, 6000 S		34	38			
	PART OF THIS APPROVAL	6		· FLASHING SYSTEM	 И	BUTYL RUBBER	DEINIES	N/A	N/A			
6.		TE	SI LEDSEAL I	TEASITING STSTEE	·1				IN/A			
	Report #: S1171.01 Date: Verified by: UPLIFT AUPLIFT AUPLIFT	2.00 2.50.80]	3.00 76.20		3.050	3.06	3.00 [76.20]		3.75,25	2.18	3.00 76.201	
	LOAD DIRECTIONS 1 0 1 ULT	TRAFOOT,	RAFTER		6 ULT	TRAFOOT, DECK			6 ULTRAFO	DOT, ANCH	OR	
						,		DD AVAITNIC N				E\/.
	PE SIGNATURE: PE DATE: DESCRIPTION:			DRA			DRAWING NUMBER:			RE	EV:	
		ULTRA RAIL F				PV MOUNTING SYSTEM WITH ULTRAFOOT ROOF ATTACHMENTS FAMILY			SNR-DC-00485			Λ
			775 FIERO L	ANE, SUITE 200	UNITS:	DATE:	SHEET SIZE:	SCALE:	SHEE	T NUMBER:		Α
	SNR SOLAR	LLC	SAN LUIS OF	BISPO, CA 93401 NAPNRACK.COM	IN, LB, DEG [MM, KG, DEG]	2/3/2025	11 IN X 17 IN	I	NTS	1 OF 5		

DESCRIPTION:

SNAPNRACK, TDS, ULTRAFOOT ANCHOR

PART NUMBER(S):

242-10058

UNITS: IN, LB, DEG [MM, KG, DEG] **SHEET: 1:2**

DOC NUMBER: SNR-DC-01438

DRAWN BY:

H.WULFEKOETTER

REV:

DATE:

A

8/28/2024

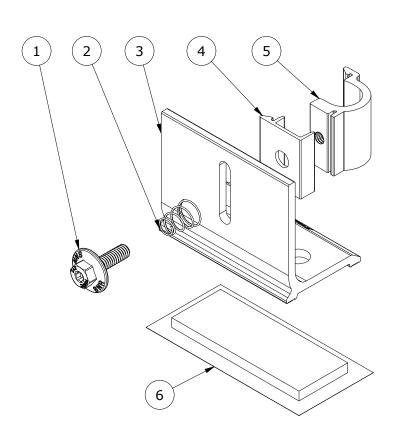
SnapNrack*

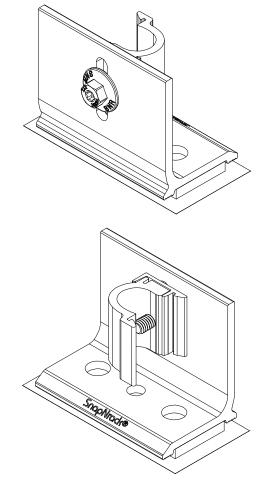
SNR SOLAR LLC

SINK SULAR LLU

775 FIERO LANE, SUITE 200
SAN LUIS OBISPO, CA 93401 USA
EMAIL: CONTACT @SNAPNRACK.COM

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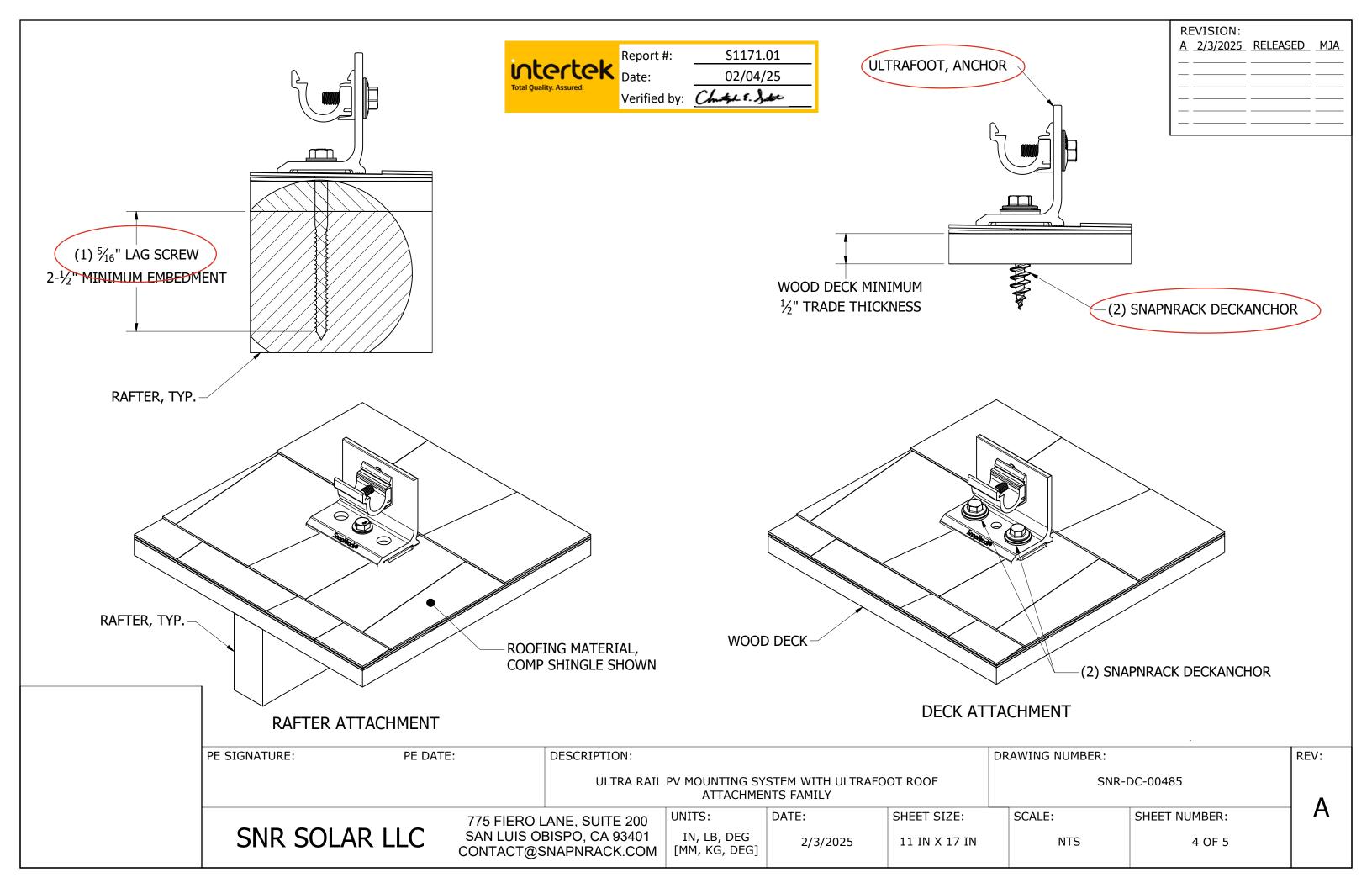


	PARTS LIST					
ITEM	QTY	DESCRIPTION				
1	1	BOLT, WIDE FLANGE, RECESSED, 5-16IN-18 X 1IN, SS				
2	1	SNAPNRACK, ULTRA RAIL MOUNT SPRING, SS				
3	1	SNAPNRACK, ULTRAFOOT BASE, ANCHOR, BLACK				
4	1	SNAPNRACK, UR FLIP CLAMP, THRU, SILVER				
5	1	SNAPNRACK, FLIP CLAMP, TAP, BLACK				
6	1	SNAPNRACK, BUTYL PAD, 2IN X 1.5IN X .25IN				

	Report #:	S1171.01
intertek	Date:	02/04/25
Total Quality. Assured.	Verified by:	Charle E. Sale

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:	ATION: 16 FT-LBS FT-LBS		
CERTIFICATION:	UL 2703, FILE E359313		
WEIGHT (LBS):	0.550		

DESCRIPTION: DOC NUMBER: SnapNrack* SNAPNRACK, TDS, ULTRAFOOT ANCHOR SNR-DC-01438 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: 242-10058 Α 8/28/2024 UNITS: IN, LB, DEG [MM, KG, DEG] **SHEET: 2:2** 3.00 3.75 [76.2][95.3] 1.88 1.88 [47.6].75 [47.6] [19.1] Ø.39 1.25 [31.8] **SLOT** 1.09 Ø.53 [27.7] 2X 3X R.16 SnapNrack® Α Α SECTION A-A **BACK** 1.50 [38.1] .20 [5.1] 2.18 [55.4] 2.88 1.63 3.00 76.21 73.2 41.4 SnapNrack® .30 TOP [7.6]S1171.01 Report #: intertek 1.44 .10 02/04/25 Date: .15 [36.6] [2.5]Verified by: Chate . Sale [3.8]





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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