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# SNR SOLAR LLC. DBA SNAPNRACK

# MIAMI-DADE TEST REPORT

**SCOPE OF WORK**
ASTM D7147 UPLIFT AND SHEAR TESTING ON THE *ULTRAFOOT, RAFTER* MOUNT WITH ONE, 5/16 IN BY 4-1/2 IN LAG SCREW - RAFTER MOUNT

**REPORT NUMBER**
S1173.02-119-18 R1

**TEST DATES**
12/04/24 - 12/19/24

**ISSUE DATE** **REVISED DATE**
01/21/25 02/04/25

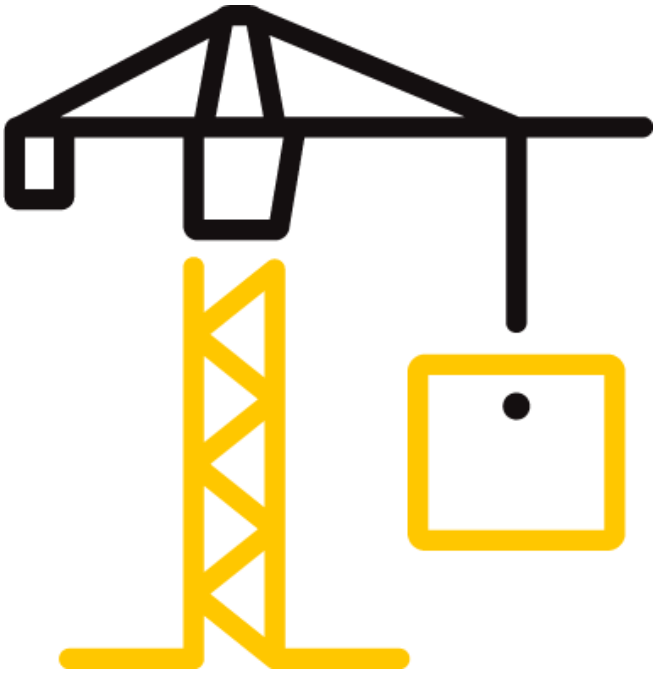
**RECORD RETENTION END DATE**
12/19/34

**MIAMI-DADE COUNTY NOTIFICATION NO.**
ATI24091

**LABORATORY CERTIFICATION NO.**
22-0428.14

**PAGES**
18

**DOCUMENT CONTROL NUMBER**
RT-R-AMER-Test-2790 (06/05/24)

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**TEST REPORT FOR SNR SOLAR LLC. DBA SNAPNRACK**
Report No.: S1173.02-119-18 R1
Date: 01/21/25 Revised Date: 02/04/25

## REPORT ISSUED TO

**SNR SOLAR LLC. DBA SNAPNRACK**
775 Fiero Lane, Suite 200
San Luis Obispo, CA 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 uplift and shear load testing on their *UltraFoot, Rafter* mount with one, 5/16 in by 4-1/2 in lag screw - rafter mount. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at the Intertek test facility in York, Pennsylvania.

Intertek B&C in York, Pennsylvania has demonstrated compliance with ISO/IEC International Standard 17025 and is consequently accredited as a Testing Laboratory (TL-144) by International Accreditation Service, Inc. (IAS).

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.

For INTERTEK B&C:

| | |
|---|---|
| **COMPLETED BY:** | Adam J. Schrum |
| **TITLE:** | Project Manager |
| **SIGNATURE:** | Digitally Signed by: Adam J. Schrum |
| **DATE:** | 02/04/25 |

| | |
|---|---|
| **REVIEWED BY:** | V. Thomas Mickley, Jr., P.E. |
| **TITLE:** | Senior Staff Engineer |
| **SIGNATURE:** | Digitally Signed by: Virgal Thomas Mickley, Jr. |
| **DATE:** | 02/04/25 |

| | |
|---|---|
| **COMPLETED BY:** | Tanya A. Dolby, P.E. |
| **TITLE:** | Engineering Manager |
| **SIGNATURE:** | Digitally Signed by: Tanya Dolby |
| **DATE:** | 02/04/25 |

TANYA A. DOLBY LICENSE No. 93536 STATE OF FLORIDA PROFESSIONAL ENGINEER

2025.02.06 09:42:21 -05'00'

AJS:vtm/tad/aas

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**TEST REPORT FOR SNR SOLAR LLC. DBA SNAPNRACK**
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## SECTION 2
## SUMMARY OF TEST RESULTS

***UltraFoot, Rafter* Mount with One, 5/16 in by 4-1/2 in Lag Screw - Rafter Mount**

| | |
|---|---|
| **UPLIFT RESISTANCE** [1] | Average Load at 1/8 in Displacement - 474 lbf<br>Average Ultimate Load - 2213 lbf |
| **SHEAR PARALLEL TO THE RAFTER** [1, 2] | Average Load at 1/8 in Displacement - 571 lbf<br>Average Ultimate Load - 2288 lbf |
| **SHEAR PERPENDICULAR TO THE RAFTER** [1, 2] | Average Load at 1/8 in Displacement - 777 lbf<br>Average Ultimate Load - 2462 lbf |

[1] *Test/Ultimate loads should not be used as design loads or safe working loads.*

[2] *Shear loads represent the capacity of the mount to roof connection only and not the shear capacity of the mount as an assembly.*

## SECTION 3
## TEST METHOD

The specimens were evaluated in general accordance with the following:

> **ASTM D7147-11 (Reapproved 2018)**, *Standard Specification for Testing and Establishing Allowable Loads of Joist Hangers*

The uplift and shear load testing reported herein evaluated the connection of the *UltraFoot, Rafter* mount to the mock roof and did not evaluate the *UltraFoot, Rafter* mount with an attached *Ultra Rail* mount or panel.

## SECTION 4
## MATERIAL SOURCE

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

Each tested specimen was installed on a mock roof consisting of one 12 in square piece of 15/32 in plywood sheathing, one piece of 30# felt underlayment, and one, three-tab shingle.

## SECTION 5
## EQUIPMENT

Testing was performed in an Instron Model 5989 Universal Testing Machine. Load and deflection were recorded manually using either the crosshead movement of the test machine, a 2-inch travel Instron® Model 3540-200T-ST deflectometer or a dial indicator accurate to 0.001 in.

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## SECTION 6
**LIST OF OFFICIAL OBSERVERS**

| NAME | COMPANY |
|---|---|
| Shawn E. Beamer | Intertek B&C |
| Adam J. Schrum | Intertek B&C |

## SECTION 7
**TEST SPECIMEN DESCRIPTION**

The *UltraFoot, Rafter* mount is a 2 in long angle-shaped aluminum extrusion with a 2-3/4 in horizontal leg and a 3 in vertical leg (flange). Each mount was fastened to the joist (rafter) of the mock roof with one, 5/16-9 by 4-1/2 in, stainless steel, hex- head, Type A point lag screw with sealing washer.

Drawings are included in Section 11 to verify the overall dimensions and other pertinent information of the tested product, its components, and any constructed assemblies.

## SECTION 8
**TEST PROCEDURE**

The purpose of this testing was to determine the uplift and shear load capacity of the product in accordance with ASTM D7147.

*Uplift Resistance Testing*
The mock roof assemblies were rigidly mounted to the base of an Instron Model 5989 Universal Test Machine. Load was applied in tension to the 3 in leg of the aluminum angle bracket, through a load cell attached to the testing machine crosshead. Test speed was 0.05 in/min. Displacement was taken with the crosshead movement of the test machine, which was zeroed at zero load. Ultimate load was the maximum load the test assembly could carry.

*Shear Load Testing*
The mock roof assemblies were rigidly mounted to the base of an Instron Model 5989 Universal Test Machine. Load was applied to the base of the angle bracket in both a parallel and perpendicular orientation to the joist through a load cell attached to the testing machine crosshead. Test speed was 0.10 in/min. Displacement was taken with either a 2-inch travel Instron® Model 3540-200T-ST deflectometer or a dial indicator, accurate to 0.001 in, attached to the base of the test machine, which were zeroed at zero load. Ultimate load was the maximum load the test assembly could carry.

See photographs in Section 10 for typical test set-up.

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**TEST REPORT FOR SNR SOLAR LLC. DBA SNAPNRACK**
Report No.: S1173.02-119-18 R1
Date: 01/21/25 Revised Date: 02/04/25

## SECTION 9
## TEST RESULTS

### Uplift Resistance Testing
Test/Ultimate loads should not be used as design loads or safe working loads.

***UltraFoot, Rafter* with One, 5/16 in by 4-1/2 in Lag Screw - Rafter Mount**
**Test Date: 12/04/24**

| BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in) | SPECIMEN NO. 1 | 2 | 3 |
|---|---|---|---|
| | LOAD (lbs) | | |
| 0.020 | 25 | 95 | 14 |
| 0.040 | 62 | 197 | 34 |
| 0.060 | 114 | 318 | 60 |
| 0.080 | 174 | 453 | 90 |
| 0.100 | 232 | 609 | 145 |
| 0.120 | 301 | 795 | 224 |
| 0.140 | 408 | 994 | 327 |
| 0.160 | 533 | 1190 | 458 |
| 0.180 | 671 | 1364 | 591 |
| 0.200 | 834 | 1533 | 735 |
| **Ultimate Load:** | 2075 | 2124 | 2439 |

| SPECIMEN NO. | ULTIMATE LOAD (lbf) | DEVIATION FROM AVERAGE | LOAD @ 1/8 in DISPLACEMENT (lb) | MODE OF FAILURE |
|---|---|---|---|---|
| 1 | 2075 | -6.2% | 328 | Lag screw withdrew from mock roof |
| 2 | 2124 | -4.0% | 845 | |
| 3 | 2439 | +10.2% | 250 | |
| **Average**: | **2213** | **Average**: | **474** | |
| | | **Standard Deviation**: | 323 | |
| | | **Coefficient of Variation**: | 68% | |

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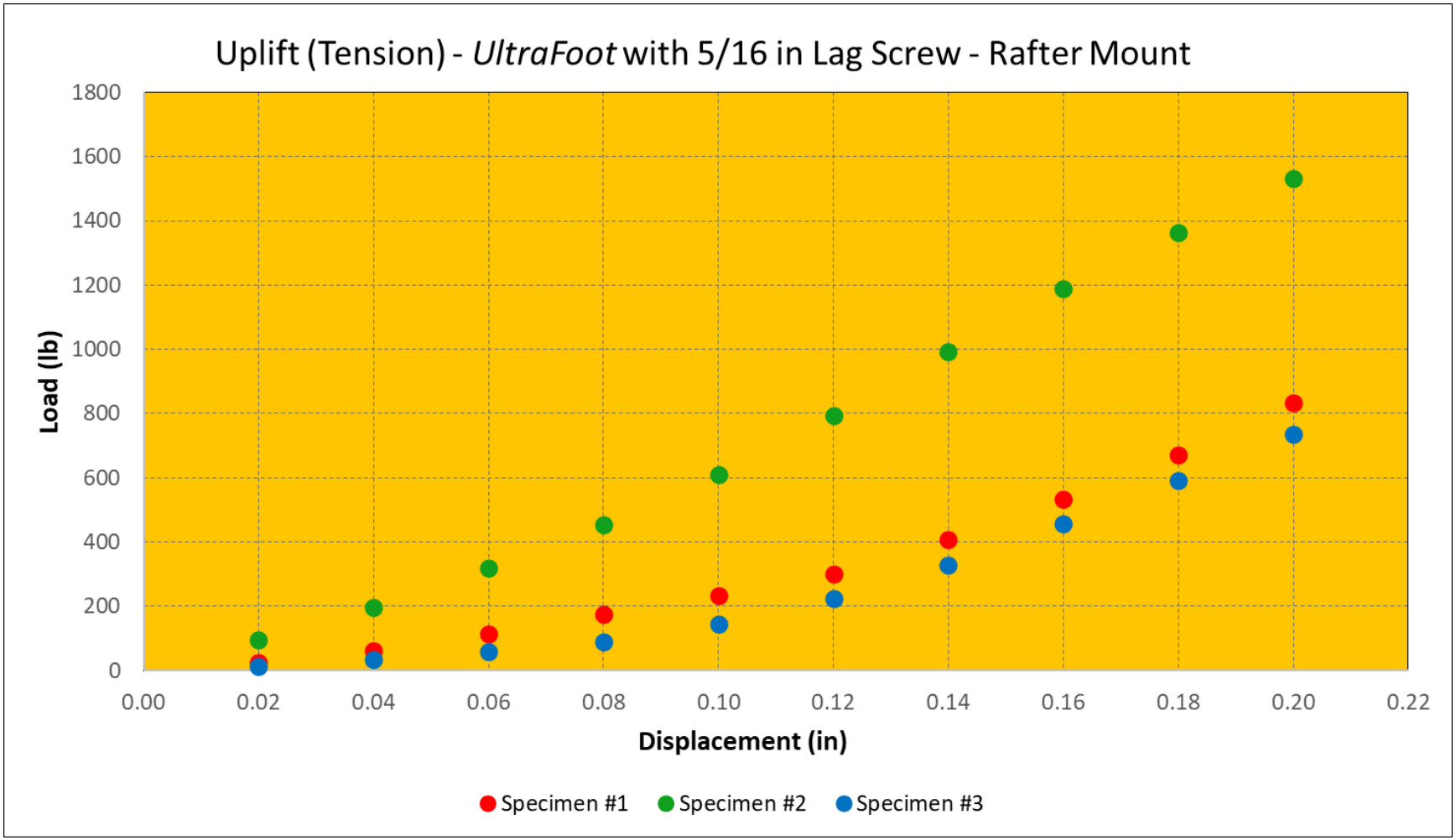
Date: 01/21/25 Revised Date: 02/04/25



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Report No.: S1173.02-119-18 R1
Date: 01/21/25 Revised Date: 02/04/25

**Shear Load Testing**
Test/Ultimate loads should not be used as design loads or safe working loads.

***UltraFoot, Rafter* with One, 5/16 in by 4-1/2 in Lag Screw - Rafter Mount (Shear Parallel to the Rafter)**
**Test Date: 12/17/24**

| BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in) | SPECIMEN NO. | | |
|---|---|---|---|
| | 1 | 2 | 3 |
| | LOAD (lbs) | | |
| 0.020 | 80 | 60 | 219 |
| 0.040 | 114 | 89 | 356 |
| 0.060 | 257 | 121 | 473 |
| 0.080 | 386 | 170 | 574 |
| 0.100 | 504 | 223 | 657 |
| 0.120 | 617 | 289 | 742 |
| 0.140 | 704 | 375 | 827 |
| 0.160 | 776 | 476 | 905 |
| 0.180 | 855 | 551 | 980 |
| 0.200 | 912 | 603 | 1050 |
| **Ultimate Load:** | 2338 | 2336 | 2191 |

| SPECIMEN NO. | ULTIMATE LOAD (lbf) | DEVIATION FROM AVERAGE | LOAD @ 1/8 in DISPLACEMENT (lb) | MODE OF FAILURE |
|---|---|---|---|---|
| 1 | 2338 | +2.2% | 639 | Lag screw bent and pulled through mock roof |
| 2 | 2336 | +2.1% | 311 | |
| 3 | 2191 | -4.2% | 763 | |
| **Average**: | **2288** | **Average**: | **571** | |
| | | **Standard Deviation**: | 234 | |
| | | **Coefficient of Variation**: | 41% | |

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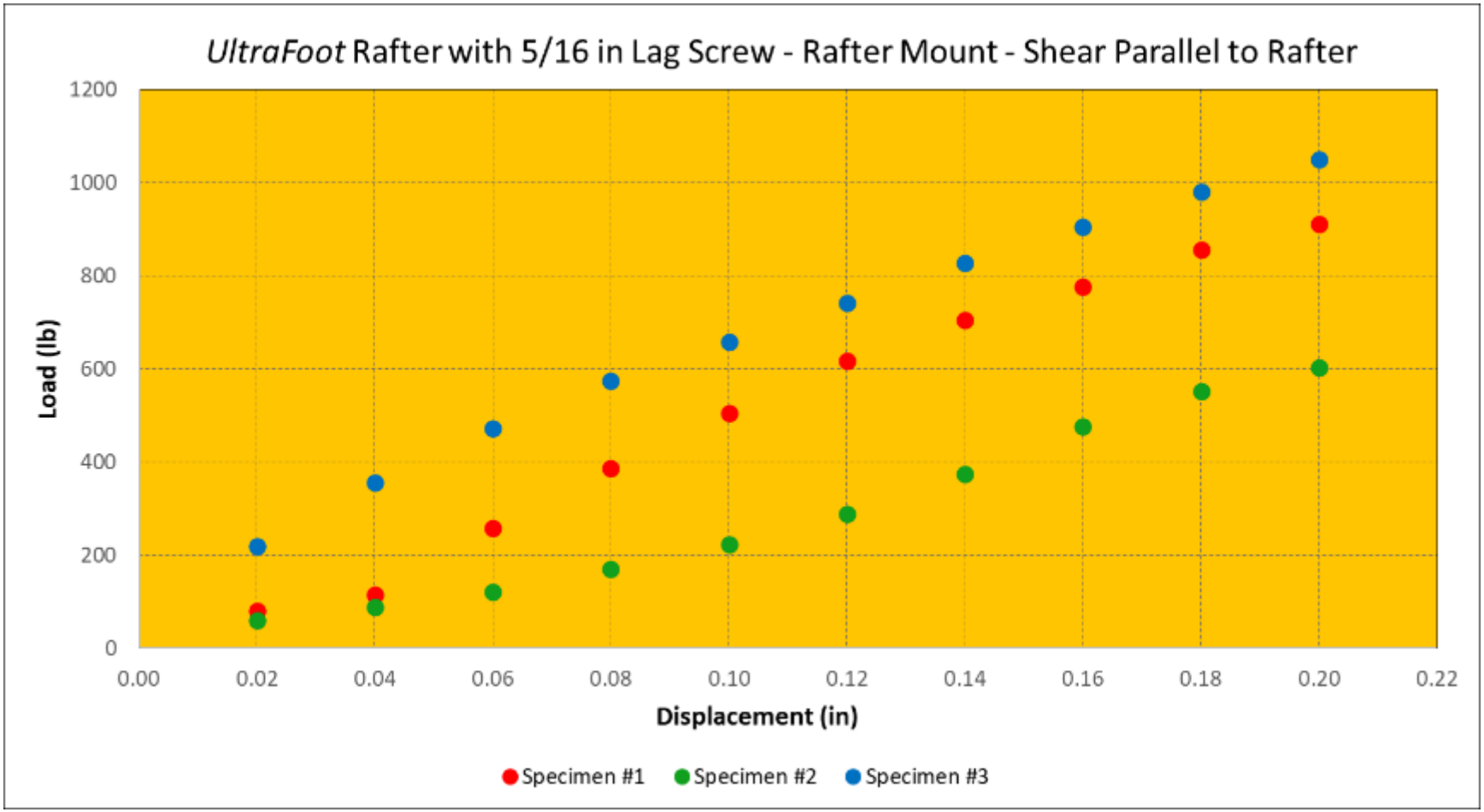

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***UltraFoot, Rafter* with One, 5/16 in by 4-1/2 in Lag Screw - Rafter Mount (Shear Perpendicular to the Rafter)**
**Test Date: 12/19/24**

| BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in) | SPECIMEN NO. | | |
|---|---|---|---|
| | 1 | 2 | 3 |
| | LOAD (lbs) | | |
| 0.020 | 338 | 89 | 40 |
| 0.040 | 607 | 226 | 95 |
| 0.060 | 788 | 377 | 299 |
| 0.080 | 850 | 516 | 445 |
| 0.100 | 903 | 609 | 544 |
| 0.120 | 946 | 715 | 620 |
| 0.140 | 986 | 790 | 705 |
| 0.160 | 1036 | 852 | 781 |
| 0.180 | 1080 | 1028 | 848 |
| 0.200 | 1113 | 1154 | 895 |
| **Ultimate Load:** | 2227 | 2726 | 2434 |

| SPECIMEN NO. | ULTIMATE LOAD (lbf) | DEVIATION FROM AVERAGE | LOAD @ 1/8 in DISPLACEMENT (lb) | MODE OF FAILURE |
|---|---|---|---|---|
| 1 | 2227 | -9.6% | 956 | Lag screw bent and pulled through mock roof |
| 2 | 2726 | +10.7% | 734 | |
| 3 | 2434 | -1.1% | 641 | |
| **Average**: | **2462** | **Average**: | **777** | |
| | | **Standard Deviation**: | 162 | |
| | | **Coefficient of Variation**: | 21% | |

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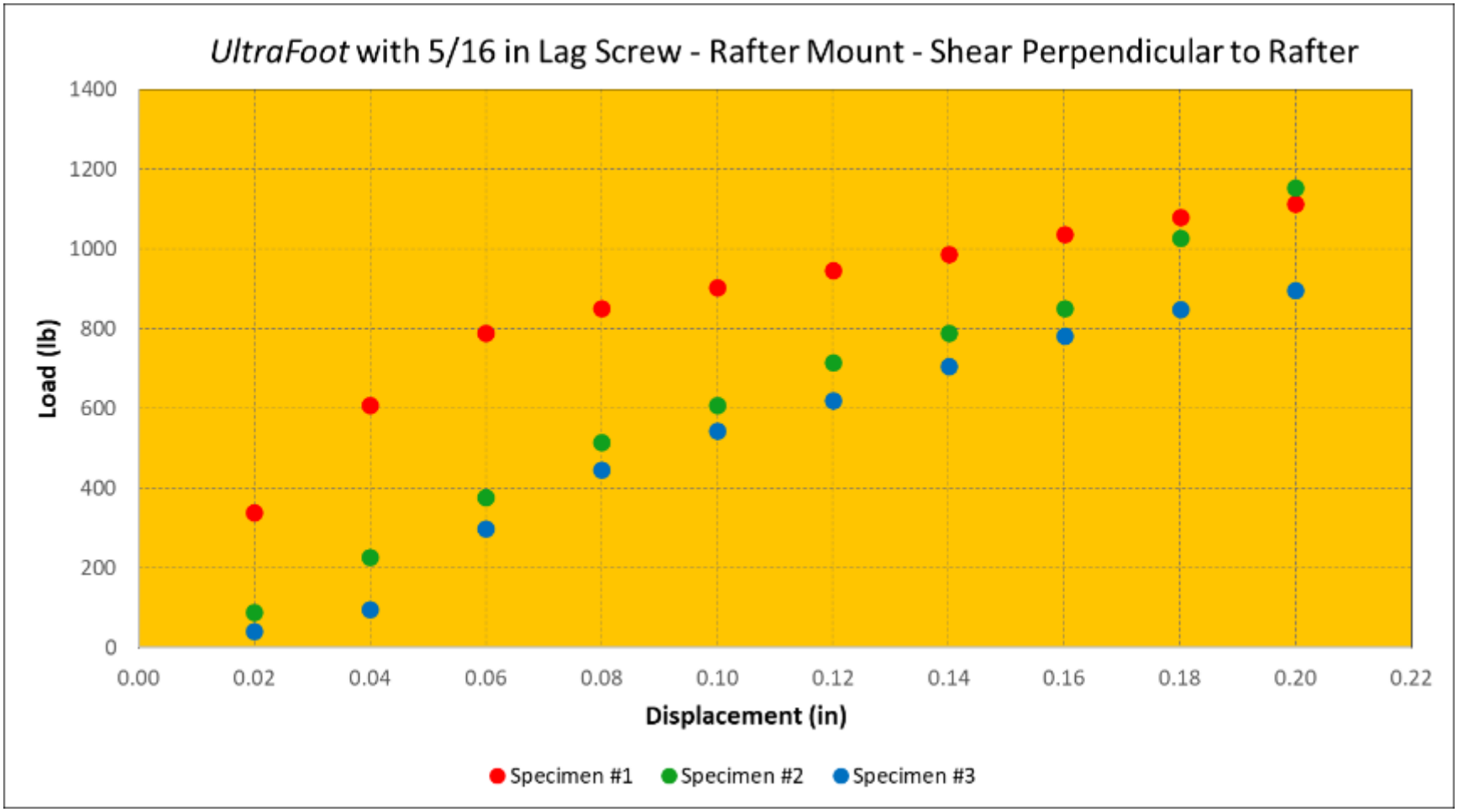

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## SECTION 10
## PHOTOGRAPHS

**Photo No. 1**
**Uplift Testing**

**Photo No. 2**
**Shear Parallel to the Rafter**

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**Photo No. 3**
**Shear Perpendicular to the Rafter**

## SECTION 11
## DRAWINGS

The "As-Built" drawings for the *UltraFoot, Rafter* mount, which follow, have been reviewed by Intertek B&C and are representative of the project reported herein. Project construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

| REVISION: | | | |
|---|---|---|---|
| A | 2/3/2025 | RELEASED | MJA |
| | | | |
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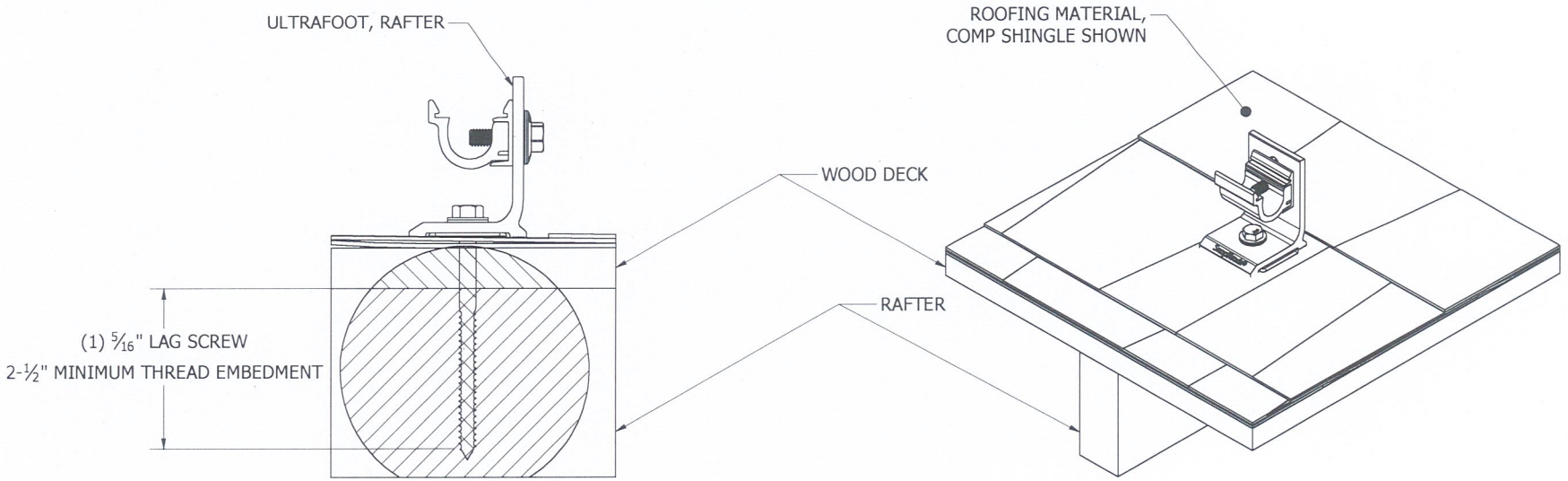
Test sample complies with these details.
Deviations are noted.

Report # 5173.02-119-18

Date 2/4/25 Tech AJS




| PE SIGNATURE: | PE DATE: | DESCRIPTION: | DRAWING NUMBER: | REV: |
|---|---|---|---|---|
| | | ULTRA RAIL PV MOUNTING SYSTEM WITH ULTRAFOOT ROOF ATTACHMENTS FAMILY | SNR-DC-00485 | A |

| SNR SOLAR LLC | 775 FIERO LANE, SUITE 200<br>SAN LUIS OBISPO, CA 93401<br>CONTACT@SNAPNRACK.COM | UNITS: | DATE: | SHEET SIZE: | SCALE: | SHEET NUMBER: |
|---|---|---|---|---|---|---|
| | | IN, LB, DEG<br>[MM, KG, DEG] | 2/3/2025 | 11 IN X 17 IN | NTS | 3 OF 5 |

NOTES:

1. THIS SYSTEM COMPLIES WITH THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING HVHZ
2. THIS SYSTEM HAS BEEN TESTED TO THE TAS100(A) AND ASTM D7147 STANDARDS. IMPACT RESISTANCE IS NOT REQUIRED, AS IT IS NOT PART OF THE BUILDING ENVELOPE
3. INSTALLATIONS MUST FOLLOW THE SNAPNRACK ULTRA RAIL SYSTEM INSTALLATION MANUAL
4. PV PANELS ARE NOT PART OF THIS APPROVAL
5. DESIGN OF THE ROOF SUBSTRATE AND STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD (EOR) AND IS NOT PART OF THIS APPROVAL
6. ALL ANCHORS FASTENING ATTACHMENTS TO THE ROOF SUBSTRATE MUST BE CORROSION RESISTANT

BOM: ULTRAFOOT PRODUCTS

| ITEM | DESCRIPTION | MATERIAL | MIN YIELD (KSI) | MINIMUM ULTIMATE (KSI) |
|---|---|---|---|---|
| 1 | BOLT, WIDE FLANGE, 5/16"-18 | STAINLESS STEEL, 300 SERIES | 60 | 95 |
| 2 | SPRING | STAINLESS STEEL, 300 SERIES | N/A | N/A |
| 3 | ULTRAFOOT BASE (RAFTER, DECK, OR ANCHOR) | ALUMINUM, 6000 SERIES | 34 | 38 |
| 4 | UR FLIP CLAMP, THRU | ALUMINUM, 6000 SERIES | 34 | 38 |
| 5 | UF FLIP CLAMP, TAP | ALUMINUM, 6000 SERIES | 34 | 38 |
| 6 | SPEEDSEAL+ FLASHING SYSTEM | BUTYL RUBBER | N/A | N/A |

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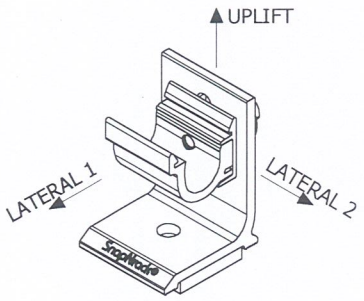
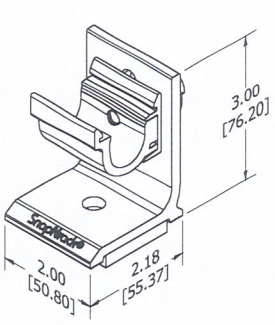
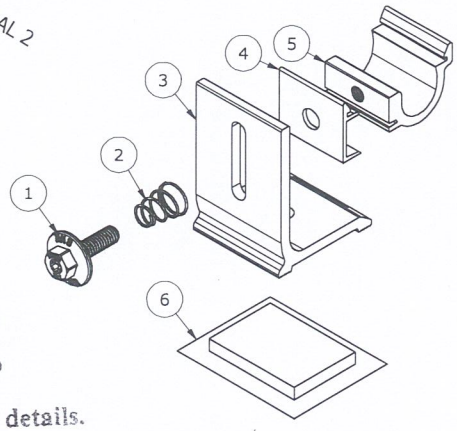
| | | | |
|---|---|---|---|
| A | 2/3/2025 | RELEASED | MJA |

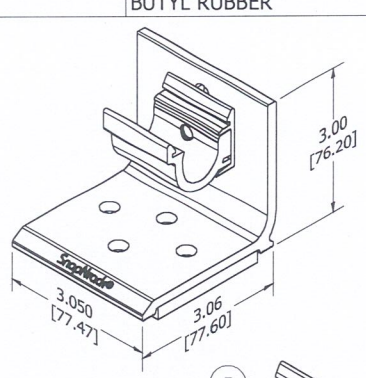


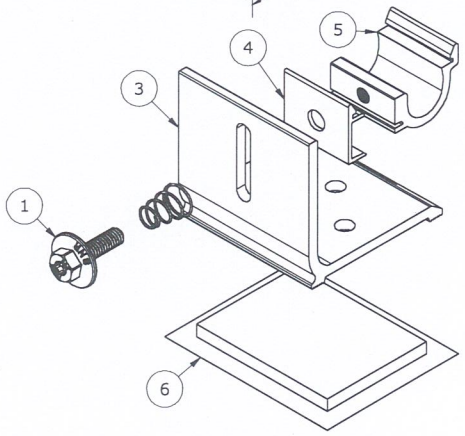

LOAD DIRECTIONS



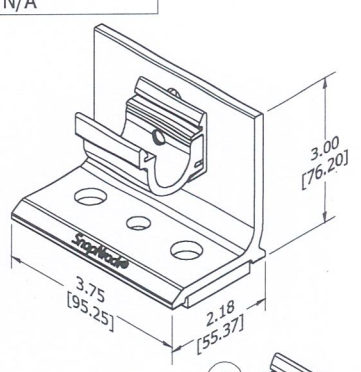



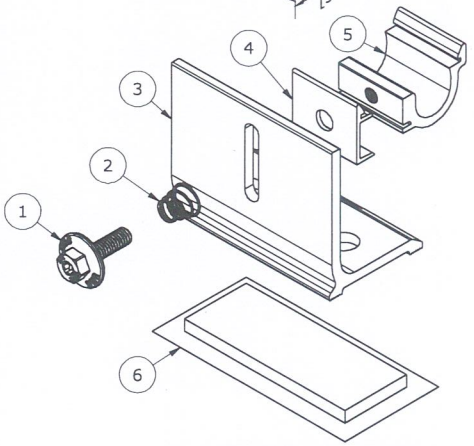

ULTRAFOOT, RAFTER




ULTRAFOOT, DECK




ULTRAFOOT, ANCHOR

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Test sample complies with these details.
Deviations are noted.

Report # 5117.3.02-11

Date 2/4/25 Tech AJS

| PE SIGNATURE: | PE DATE: | DESCRIPTION: | DRAWING NUMBER: | REV: |
|---|---|---|---|---|
| | | ULTRA RAIL PV MOUNTING SYSTEM WITH ULTRAFOOT ROOF ATTACHMENTS FAMILY | SNR-DC-00485 | A |


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

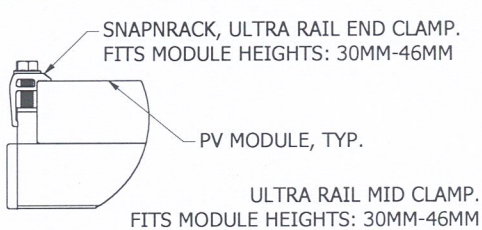

| UNITS: | DATE: | SHEET SIZE: | SCALE: | SHEET NUMBER: |
|---|---|---|---|---|
| IN, LB, DEG [MM, KG, DEG] | 2/3/2025 | 11 IN X 17 IN | NTS | 1 OF 5 |

**NOTES:**

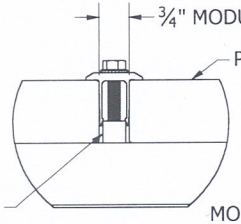
1. BOTH THE UNIVERSAL END CLAMP AND ULTRA RAIL END CLAMP MAY BE USED ON END MODULES
2. MODULES MAY BE CLAMPED ON SHORT OR LONG SIDE PER MODULE MANUFACTURER REQUIREMENTS
3. RAILS MAY BE MOUNTED UP/DOWN OR ACROSS THE SLOPE OF THE ROOF
4. A THIRD RAIL MAY BE ADDED IN THE MIDDLE OF THE PANEL FOR INCREASED LOAD CAPACITY, PER MODULE MANUFACTURER REQUIREMENTS
5. ROOF PITCH VARIES

REVISION:

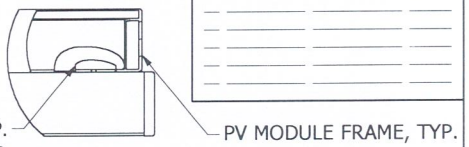
| | | | |
|---|---|---|---|
| A | 2/3/2025 | RELEASED | MJA |



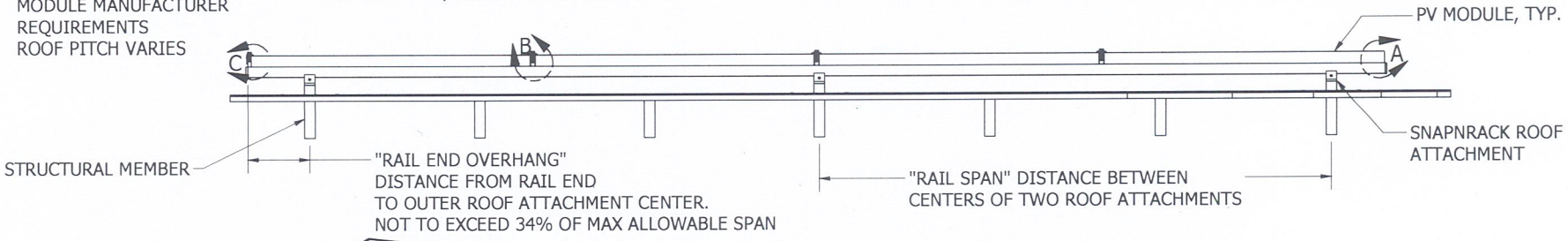

DETAIL C:
SNAPNRACK, ULTRA RAIL END CLAMP

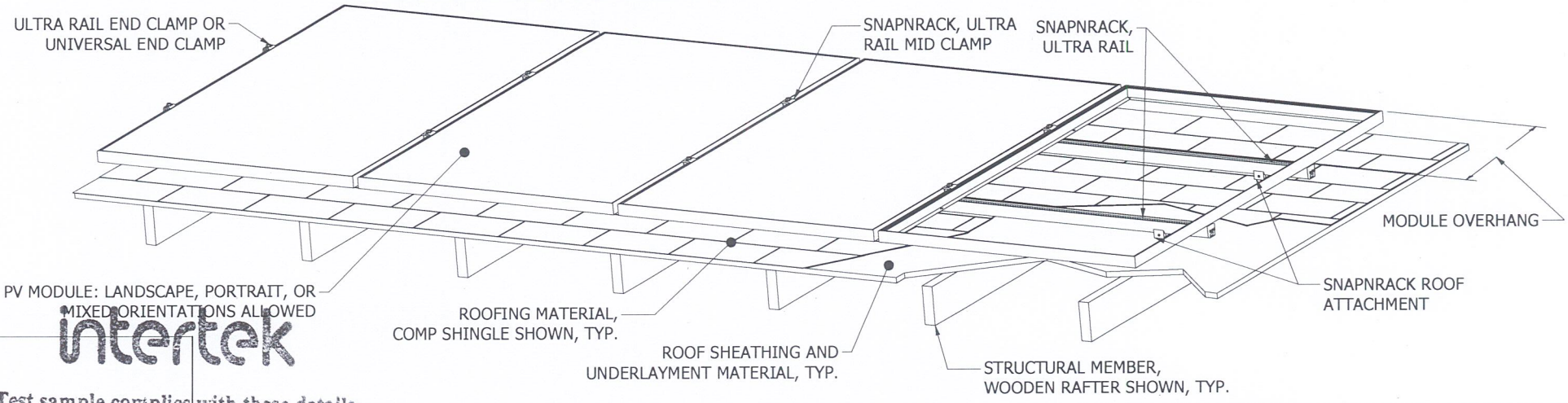



DETAIL B:
SNAPNRACK, ULTRA RAIL MID CLAMP




DETAIL A:
SNAPNRACK, UNIVERSAL END CLAMP

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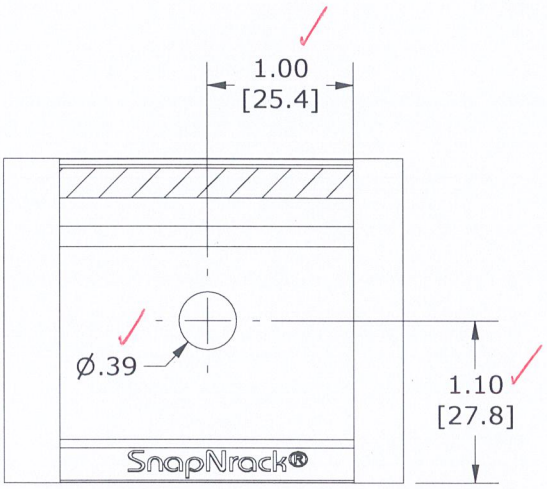
Test sample complies with these details.
Deviations are noted.

Report # 5117302-119-18

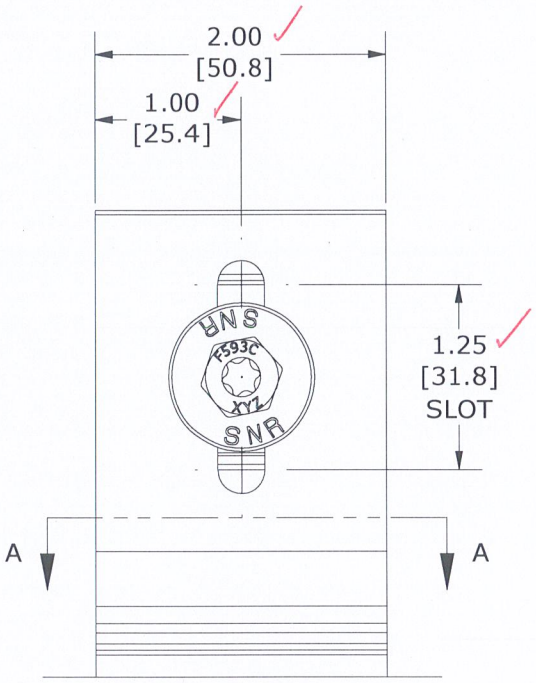
Date 2/4/25 Tech AJS

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PE SIGNATURE: | PE DATE: | DESCRIPTION: ULTRA RAIL PV MOUNTING SYSTEM WITH ULTRAFOOT ROOF ATTACHMENTS FAMILY | | | DRAWING NUMBER: SNR-DC-00485 | | REV: A |
| SNR SOLAR LLC<br>775 FIERO LANE, SUITE 200<br>SAN LUIS OBISPO, CA 93401<br>CONTACT@SNAPNRACK.COM | | UNITS: IN, LB, DEG [MM, KG, DEG] | DATE: 2/3/2025 | SHEET SIZE: 11 IN X 17 IN | SCALE: NTS | SHEET NUMBER: 2 OF 5 | |

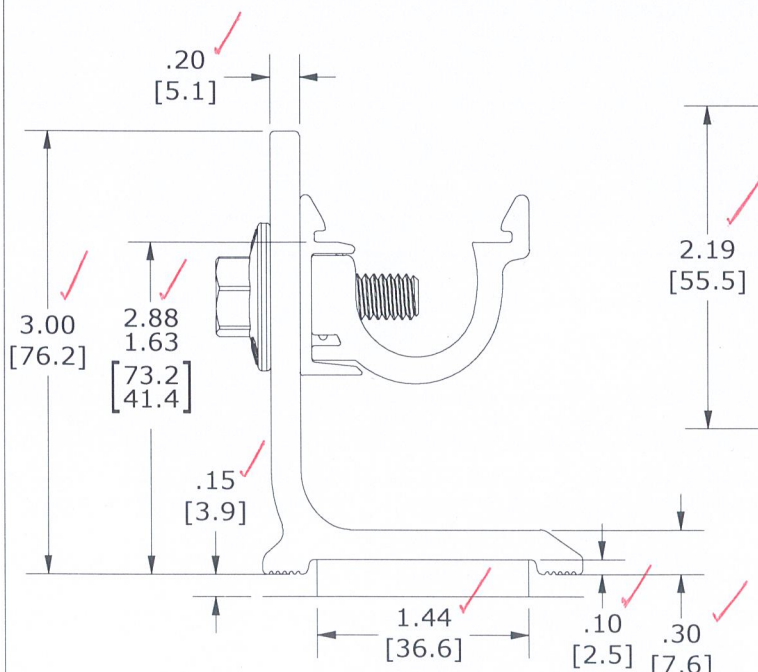
| DESCRIPTION: SNAPNRACK, ULTRAFOOT, RAFTER | | DOC NUMBER: SNR-DC-01436 | | SnapNrack® |
|---|---|---|---|---|
| | | DRAWN BY: H.WULFEKOETTER | | |
| PART NUMBER(S): 242-10056 | | REV: A | DATE: 8/28/2024 | SNR SOLAR LLC<br>775 FIERO LANE, SUITE 200<br>SAN LUIS OBISPO, CA 93401 USA<br>EMAIL: CONTACT@SNAPNRACK.COM |
| UNITS: IN, LB, DEG [MM, KG, DEG] | SHEET: 2:2 | | |  |

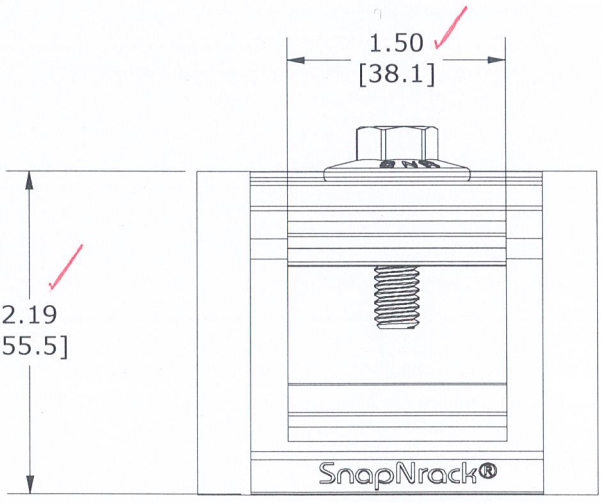



SECTION A-A




BACK




TOP

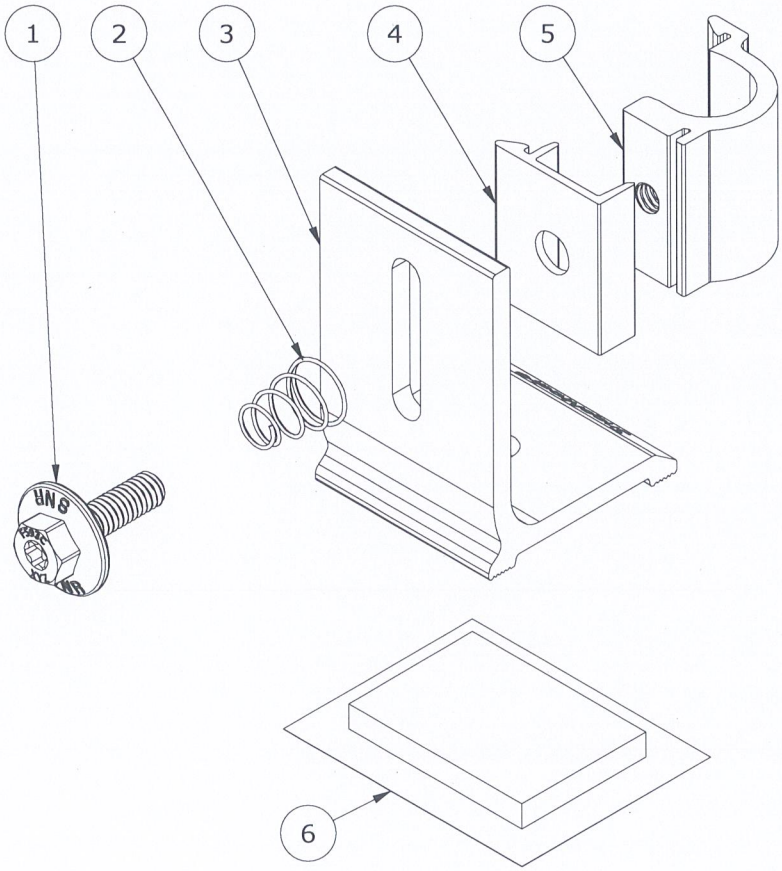
intertek

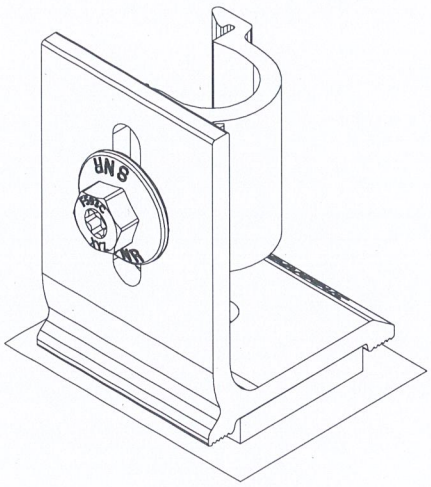
Test sample complies with these details.
Deviations are noted.

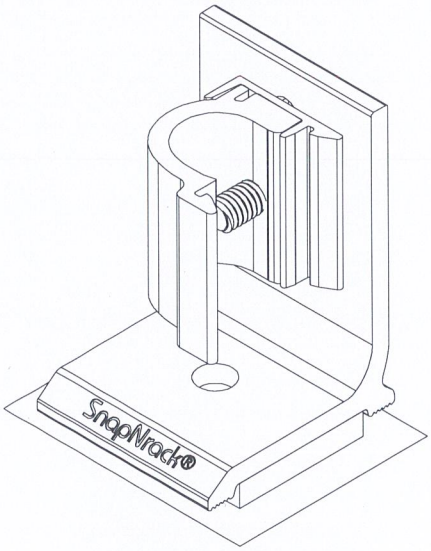
Report # 51173.02-119-18

Date 1/15/25 Tech AJS

| DESCRIPTION: | DOC NUMBER: | SnapNrack® |
|---|---|---|
| SNAPNRACK, ULTRAFOOT, RAFTER | SNR-DC-01436 | |
| PART NUMBER(S): | DRAWN BY: H.WULFEKOETTER | SNR SOLAR LLC<br>775 FIERO LANE, SUITE 200<br>SAN LUIS OBISPO, CA 93401 USA<br>EMAIL: CONTACT@SNAPNRACK.COM |
| 242-10056 | REV: A / DATE: 8/28/2024 | |
| UNITS: IN, LB, DEG [MM, KG, DEG] / SHEET: 1:2 | |  |






| 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, RAFTER, 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 |

intertek

Test sample complies with these details.
Deviations are noted.

Report # 5117302-119-18

Date 1/15/25 Tech AJS

| | |
|---|---|
| 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 |

130 Derry Court
York, Pennsylvania 17406

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Facsimile: 717-764-4129
www.intertek.com/building



## SECTION 12
## REVISION LOG

| REVISION # | DATE | PAGES | REVISION |
|---|---|---|---|
| 0 | 01/21/25 | N/A | Original Report Issue |
| 1 | 02/04/25 | 13-17 | Updated Drawing Package |