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SNR SOLAR LLC. DBA SNAPNRACK

MIAMI-DADE TEST REPORT

SCOPE OF WORK
ASTM D7147 UPLIFT AND SHEAR LOAD TESTING ON THE *ULTRAFOOT, ANCHOR* MOUNT WITH TWO, 1/2 IN BY 2-1/2 IN *DECKANCHORS* OR ONE, 5/16 IN BY 4-1/2 IN LAG SCREWS - DECK AND RAFTER MOUNT

REPORT NUMBER
S1171.02-119-18 R1

TEST DATES
12/03/24 - 12/19/24

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

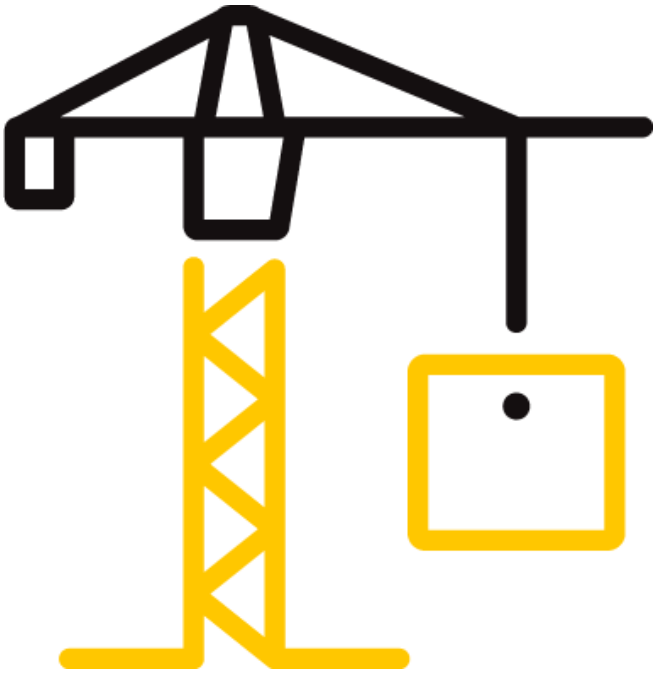
RECORD RETENTION END DATE
12/19/34

MIAMI-DADE COUNTY NOTIFICATION NO.
ATI24090

LABORATORY CERTIFICATION NO.
22-0428.14

PAGES
25

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.: S1171.02-119-18 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, Anchor* mount with two, 1/2 in by 2-1/2 in *DeckAnchors* or one, 5/16 in by 4-1/2 in lag screw - deck and rafter mount. Results obtained are tested values and were secured by using the designated test methods. 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	**REVIEWED BY:**	V. Thomas Mickley, Jr., P.E.
TITLE:	Project Manager	**TITLE:**	Senior Staff Engineer
SIGNATURE:	Digitally Signed by: Adam J. Schrum	**SIGNATURE:**	Digitally Signed by: Virgal Thomas Mickley, Jr.
DATE:	02/04/25	**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 09:39:48 -05'00'

AJS:vtm/tad/aas

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SECTION 2
SUMMARY OF TEST RESULTS

***UltraFoot, Anchor* with Two, 1/2 in by 2-1/2 in *DeckAnchors* - Deck Mount**

UPLIFT RESISTANCE [1]	Average Load at 1/8 in Displacement - 190 lbf Average Ultimate Load - 789 lbf
SHEAR PERPENDICULAR TO THE FLANGE [1, 2]	Average Load at 1/8 in Displacement - 298 lbf Average Ultimate Load - 1049 lbf
SHEAR PARALLEL TO THE FLANGE [1, 2]	Average Load at 1/8 in Displacement - 685 lbf Average Ultimate Load - 1482 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.*

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

UPLIFT RESISTANCE [1]	Average Load at 1/8 in Displacement - 155 lbf Average Ultimate Load - 2371 lbf
SHEAR PERPENDICULAR TO THE FLANGE [1, 2]	Average Load at 1/8 in Displacement - 565 lbf Average Ultimate Load - 2446 lbf
SHEAR PARALLEL TO THE FLANGE [1, 2]	Average Load at 1/8 in Displacement - 691 lbf Average Ultimate Load - 2309 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, Anchor* mount to the mock roof and did not evaluate the *UltraFoot, Anchor* mount with an attached *Ultra Rail* mount or panel.

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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.

Deck Mount Condition:
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.

Rafter Mount Condition:
Each tested specimen was installed on a 12 in square by 6-1/4 in deep mock roof consisting of one 12 in long SPF 2x6 joist, 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.

SECTION 6
LIST OF OFFICIAL OBSERVERS

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

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SECTION 7
TEST SPECIMEN DESCRIPTION

The *UltraFoot, Anchor* mount is a 3-3/4 in long angle-shaped aluminum extrusion with a 2-1/4 in horizontal leg and a 3 in vertical leg (flange).

Deck Mount Condition:
Each track piece was fastened to the plywood (deck) of the mock roof with two, 1/2-5 by 2-1/2 in, die cast zinc, hex-washer head, Type 17 point *DeckAnchor* wood screws with sealing washer.

Rafter Mount Condition:
Each track piece was fastened to 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. The fastener was attached to the joist (rafter).

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 flange 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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SECTION 9
TEST RESULTS

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

***UltraFoot, Anchor* with Two, 1/2 in by 2-1/2 in *DeckAnchors* - Deck Mount**
Test Date: 12/09/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO. 1	2	3
	LOAD (lbs)		
0.020	23	28	42
0.040	43	61	75
0.060	65	93	107
0.080	90	124	141
0.100	116	156	176
0.120	143	190	212
0.140	170	224	250
0.160	198	259	286
0.180	228	294	324
0.200	257	329	360
Ultimate Load:	920	731	717

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	920	+16.6%	150	*DeckAnchor* screws withdrew from mock roof
2	731	-7.4%	199	
3	717	-9.1%	222	
Average:	**789**	**Average**:	**190**	
		Standard Deviation:	37	
		Coefficient of Variation:	19%	

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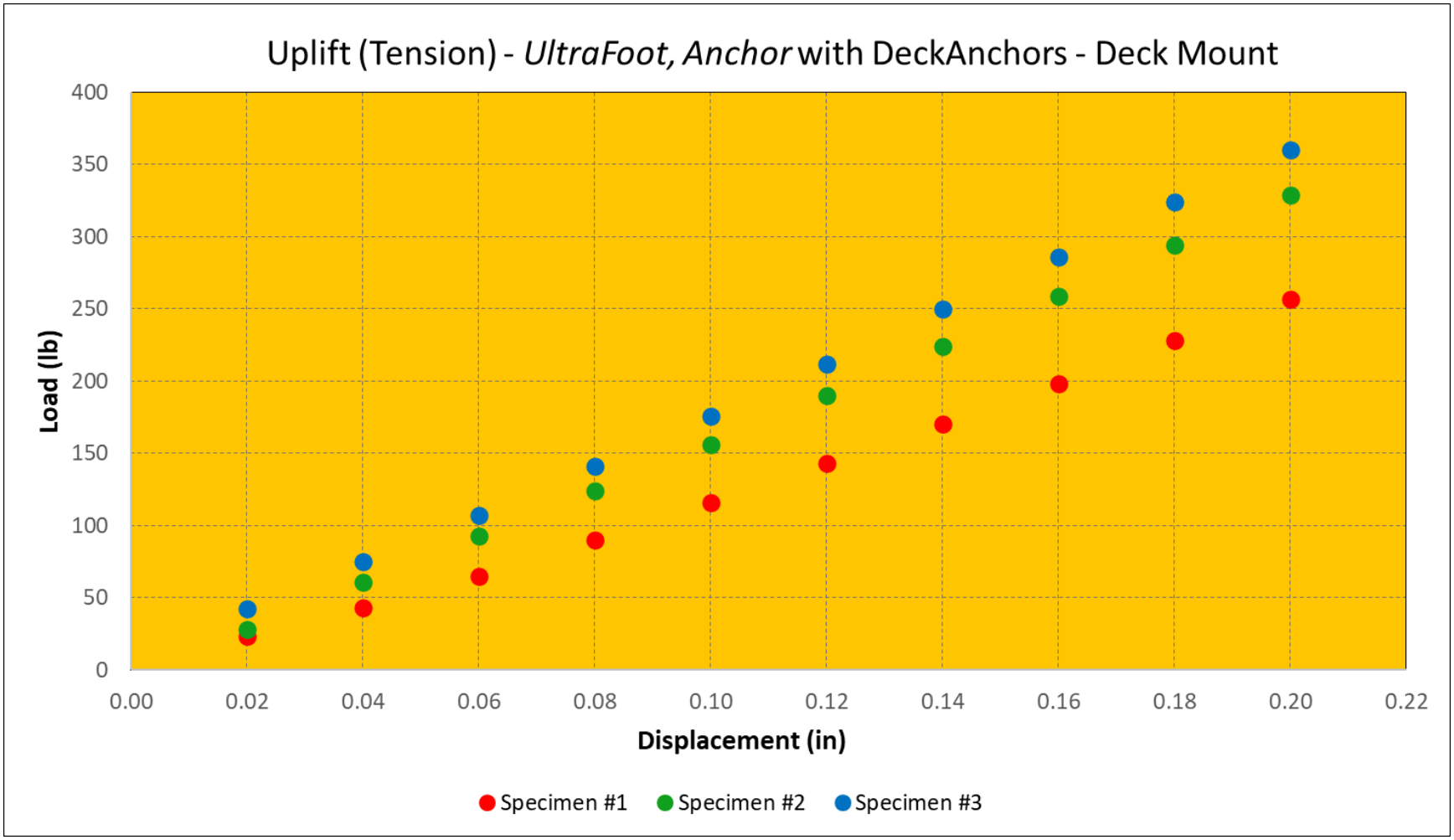

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***UltraFoot, Anchor* with One, 5/16 in by 4-1/2 in Lag Screw - Rafter Mount**
Test Dates: 12/03/24 - 12/04/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	0	49	17
0.040	0	94	38
0.060	2	126	63
0.080	14	139	88
0.100	39	132	111
0.120	75	214	136
0.140	109	318	157
0.160	143	429	185
0.180	173	547	204
0.200	177	671	234
Ultimate Load:	2634	2082	2396

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	2634	+11.1%	84	Lag screw withdrew from mock roof
2	2082	-12.2%	240	
3	2396	+1.1%	141	
Average:	**2371**	**Average**:	**155**	
		Standard Deviation:	79	
		Coefficient of Variation:	51%	

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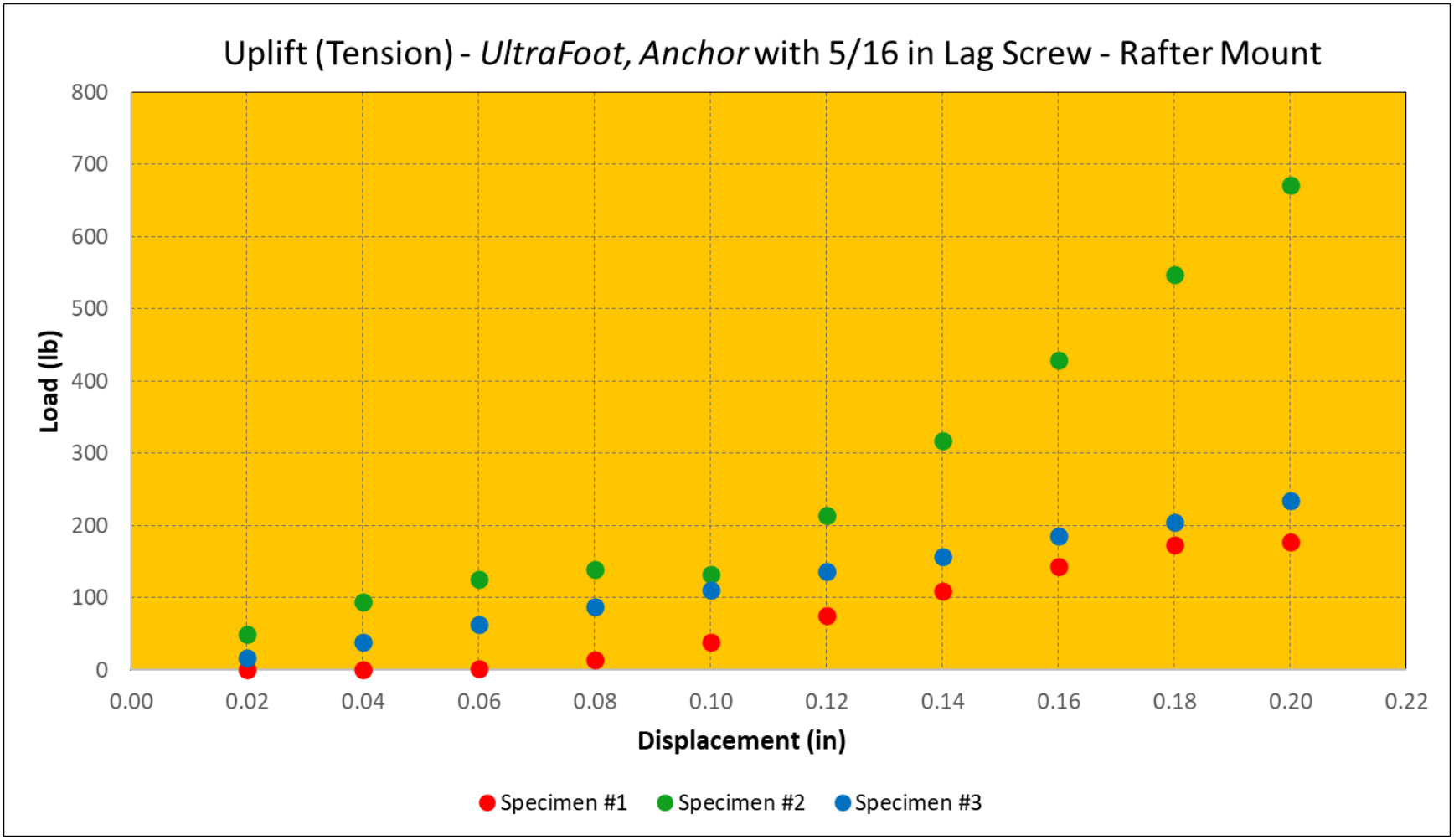

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Shear Load Testing
Test/Ultimate loads should not be used as design loads or safe working loads.

***UltraFoot, Anchor* with Two, 1/2 in by 2-1/2 in *DeckAnchors* - Deck Mount (Shear Perpendicular to the Flange)**
Test Dates: 12/17/24 - 12/18/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	52	79	26
0.040	93	136	37
0.060	139	194	64
0.080	190	258	106
0.100	245	300	166
0.120	302	351	206
0.140	354	398	244
0.160	405	445	285
0.180	459	482	329
0.200	513	522	381
Ultimate Load:	1071	1097	978

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	1071	+2.1%	315	*DeckAnchor* screws bent and pulled through mock roof
2	1097	+4.6%	363	
3	978	-6.8%	216	
Average:	**1049**	**Average**:	**298**	
		Standard Deviation:	75	
		Coefficient of Variation:	25%	

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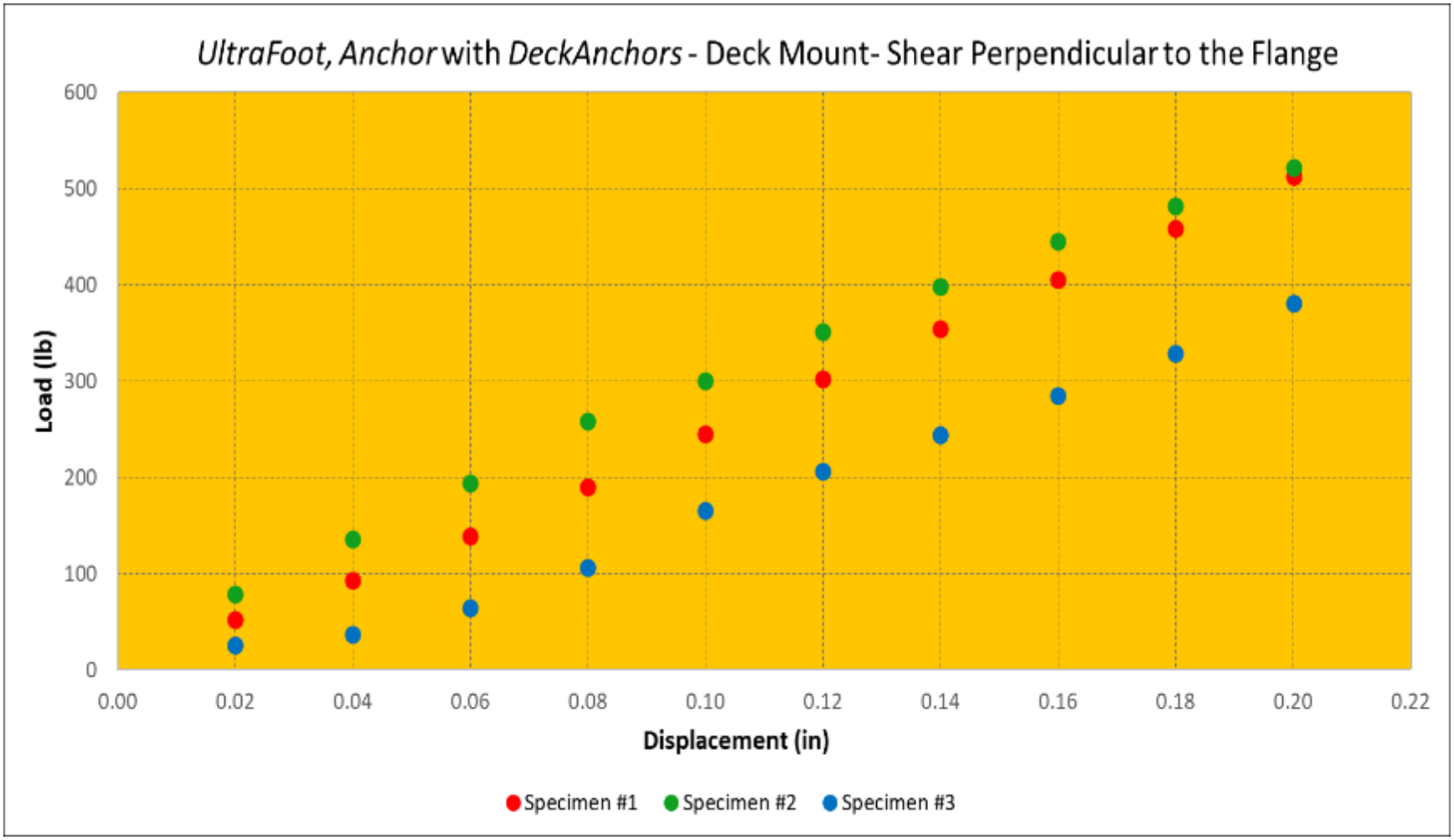

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***UltraFoot, Anchor* with Two, 1/2 in by 2-1/2 in *DeckAnchors* - Deck Mount (Shear Parallel to the Flange)**
Test Date: 12/18/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	125	234	112
0.040	197	381	191
0.060	280	541	307
0.080	351	667	423
0.100	418	775	531
0.120	493	867	631
0.140	571	956	718
0.160	646	1047	803
0.180	718	1151	885
0.200	789	1234	961
Ultimate Load:	1390	1442	1613

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	1390	-6.2%	513	*DeckAnchor* screws bent and pulled through mock roof
2	1442	-2.7%	889	
3	1613	+8.9%	653	
Average:	**1482**	**Average**:	**685**	
		Standard Deviation:	190	
		Coefficient of Variation:	28%	

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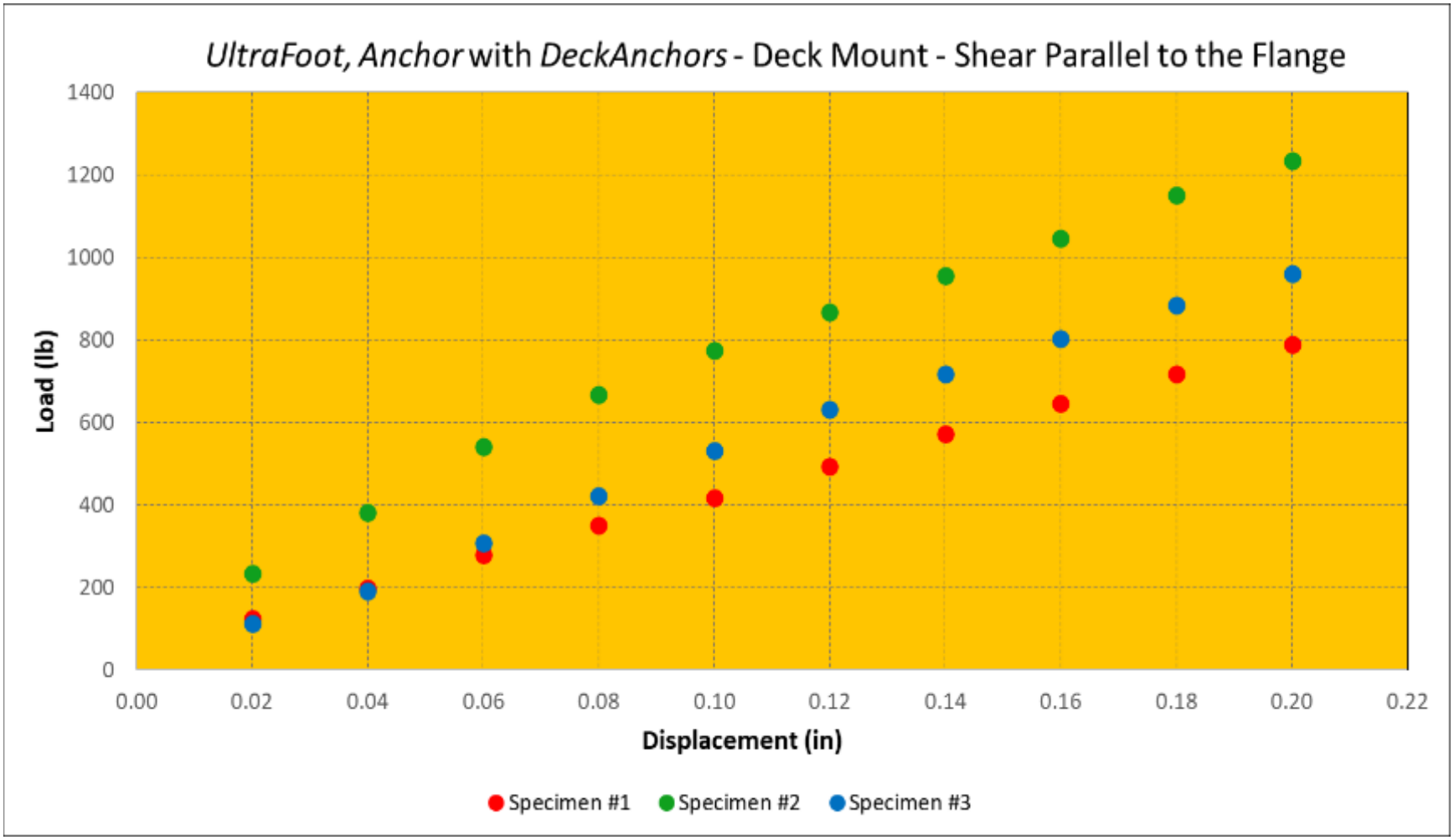

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***UltraFoot, Anchor* with One, 5/16 in by 4-1/2 in Lag Screw - Rafter Mount (Shear Perpendicular to the Flange)**
Test Date: 12/17/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	22	113	85
0.040	40	197	165
0.060	75	329	259
0.080	139	457	395
0.100	208	585	508
0.120	299	689	631
0.140	382	805	736
0.160	467	907	836
0.180	541	985	924
0.200	606	1061	997
Ultimate Load:	2346	2408	2583

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	2346	-4.1%	320	Lag screw bent and pulled through mock roof
2	2408	-1.6%	718	
3	2583	+5.6%	657	
Average:	**2446**	**Average**:	**565**	
		Standard Deviation:	215	
		Coefficient of Variation:	38%	

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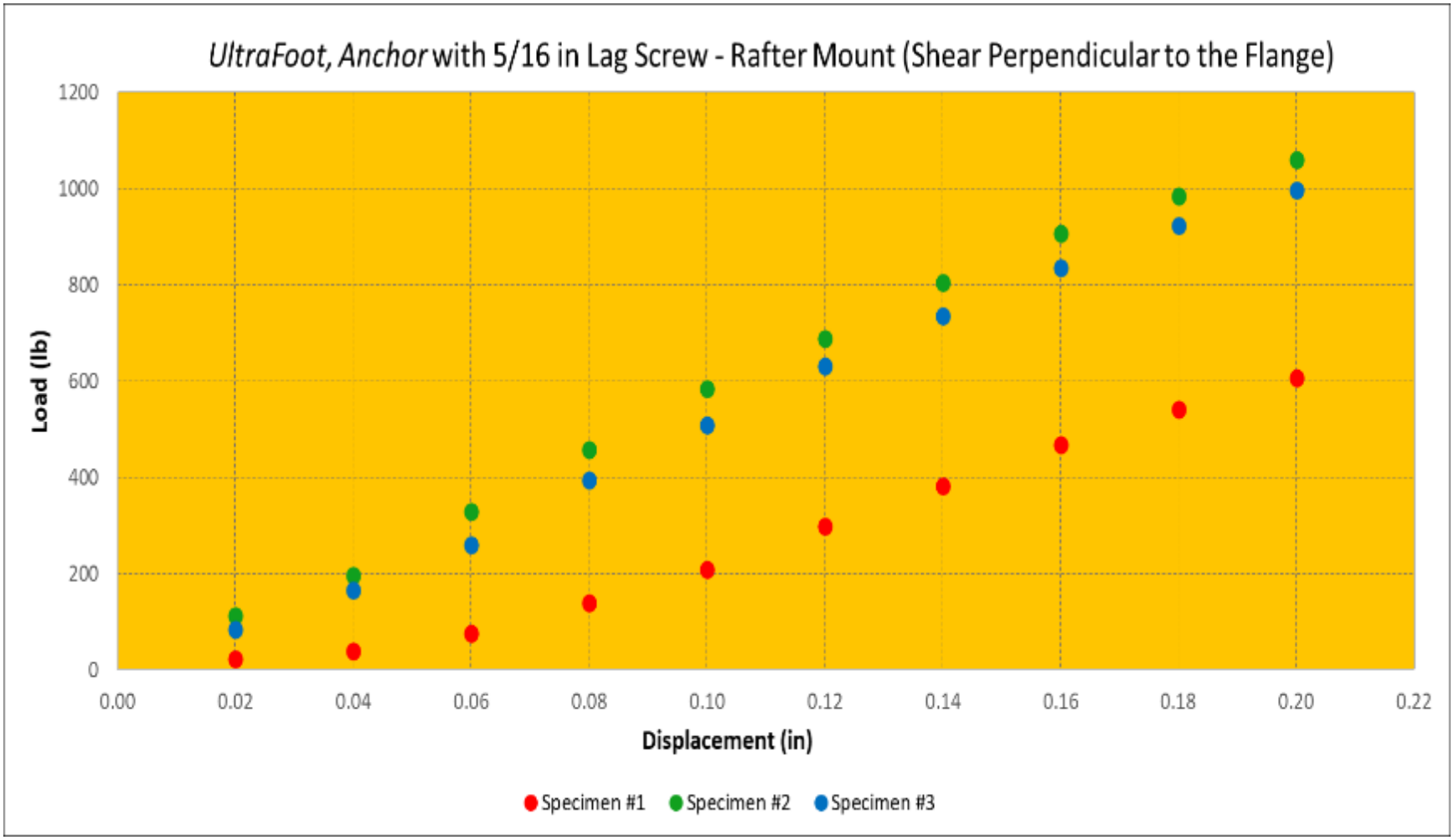

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***UltraFoot, Anchor* with One, 5/16 in by 4-1/2 in Lag Screw - Rafter Mount (Shear Parallel to the Flange)**
Test Date: 12/19/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	29	14	28
0.040	277	63	39
0.060	493	347	58
0.080	627	503	260
0.100	713	588	478
0.120	771	647	609
0.140	810	705	694
0.160	834	720	752
0.180	860	760	782
0.200	887	773	811
Ultimate Load:	2468	2032	2428

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	2468	+6.9%	781	Lag screw bent and pulled through mock roof
2	2032	-12.0%	662	
3	2428	+5.2%	630	
Average:	**2309**	**Average**:	**691**	
		Standard Deviation:	79	
		Coefficient of Variation:	11%	

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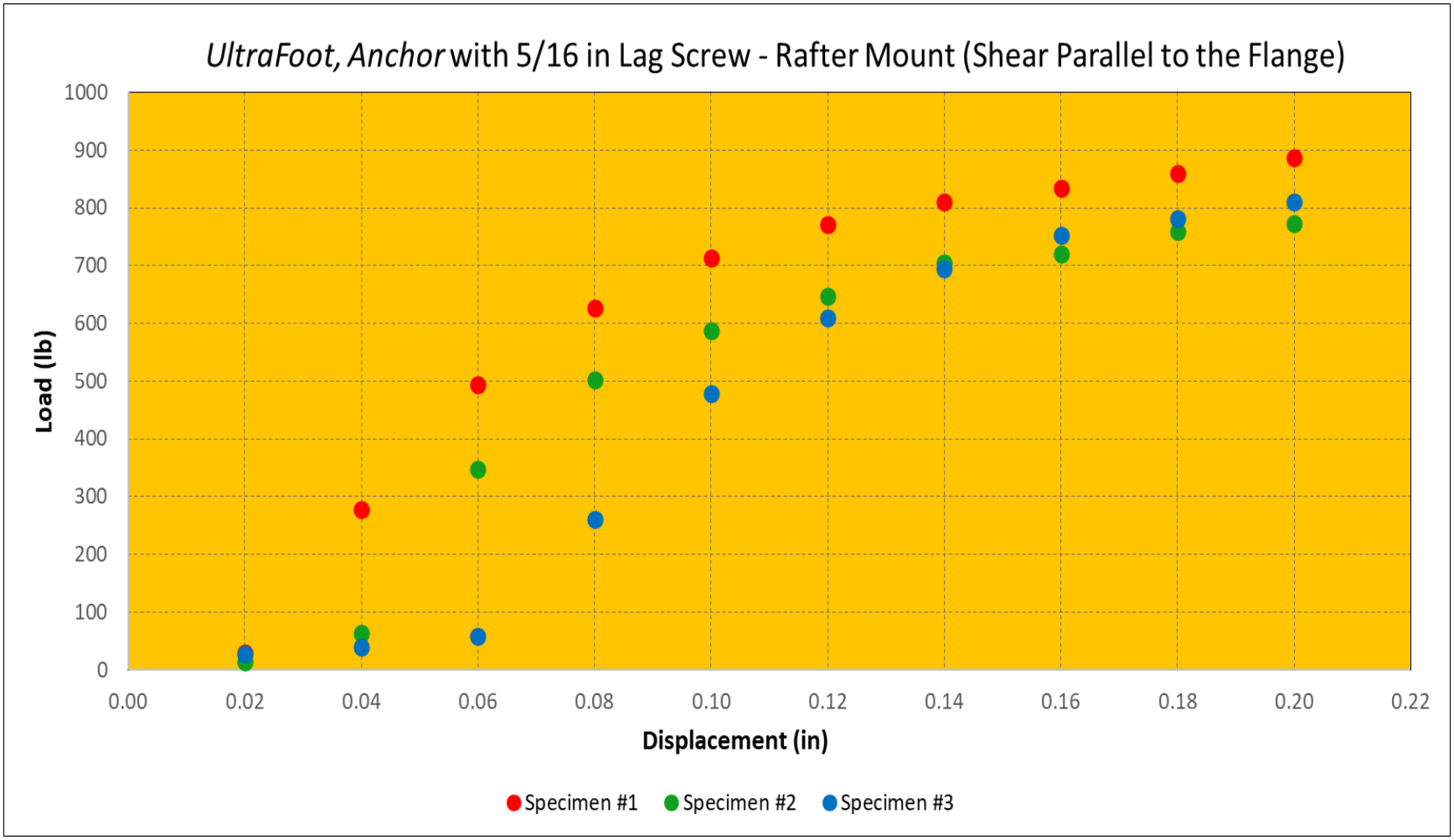

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SECTION 10
PHOTOGRAPHS

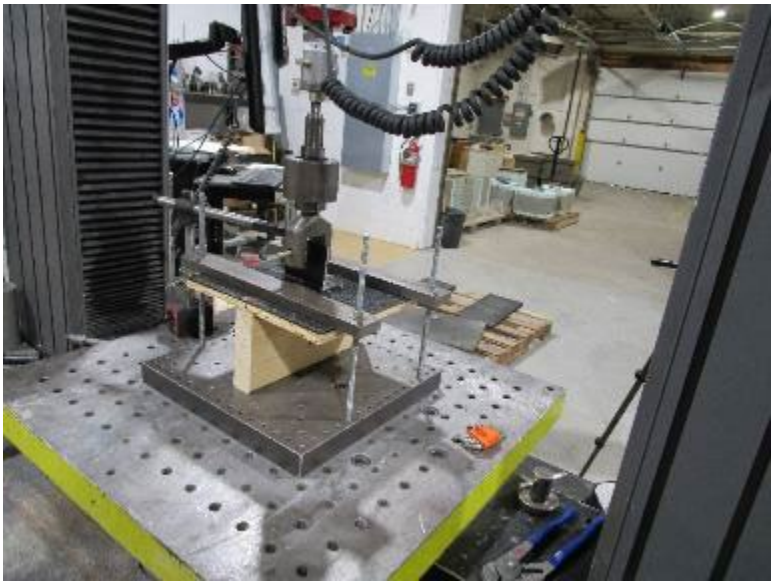

Photo No. 1
Uplift Testing

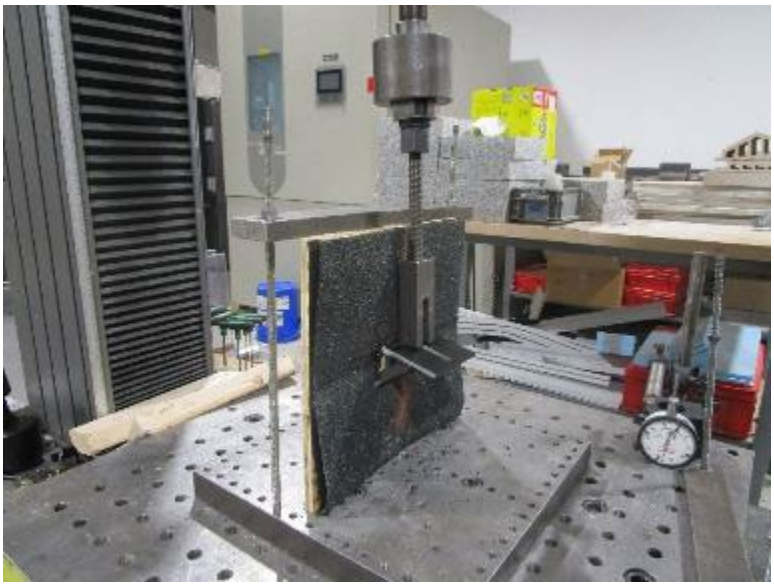

Photo No. 2
Shear Perpendicular to the Flange

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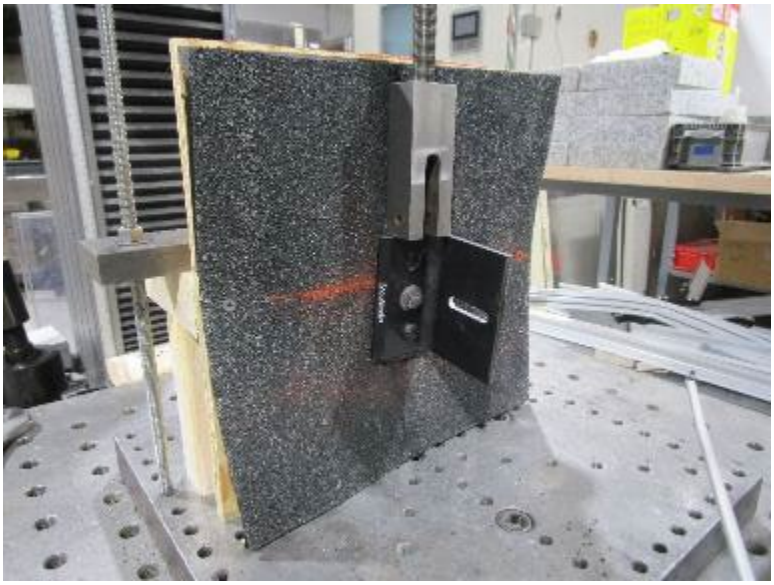
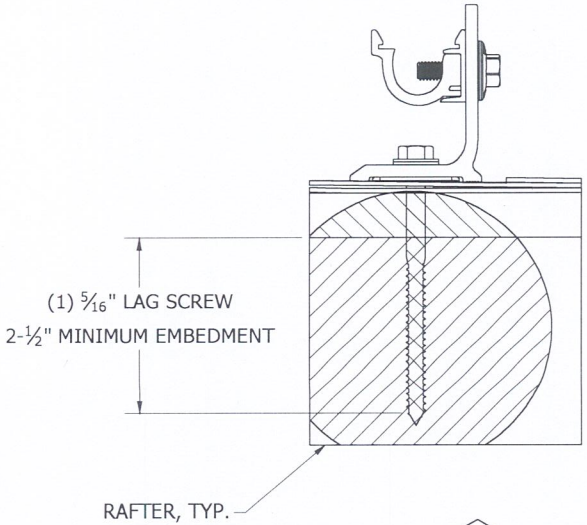


Photo No. 3
Shear Parallel to the Flange

SECTION 11
DRAWINGS

The "As-Built" drawings for the *UltraFoot, Anchor* 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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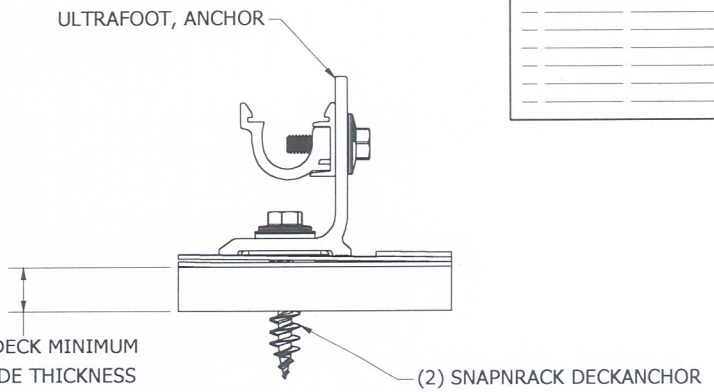
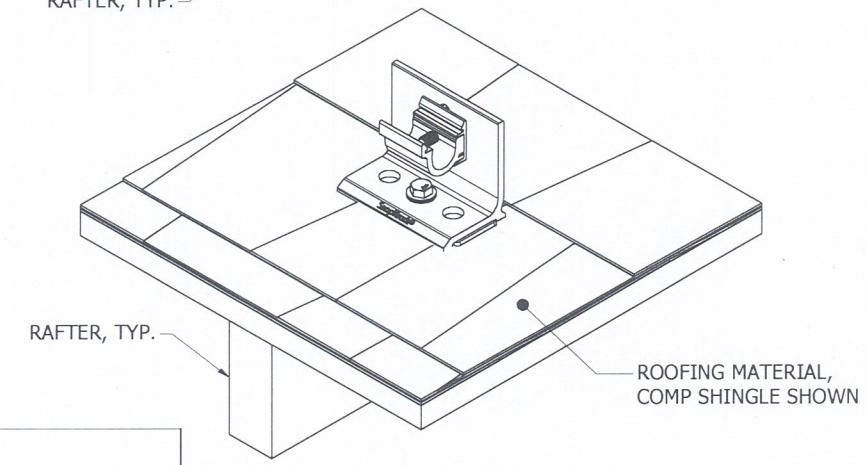
Test sample complies with these details.
Deviations are noted.

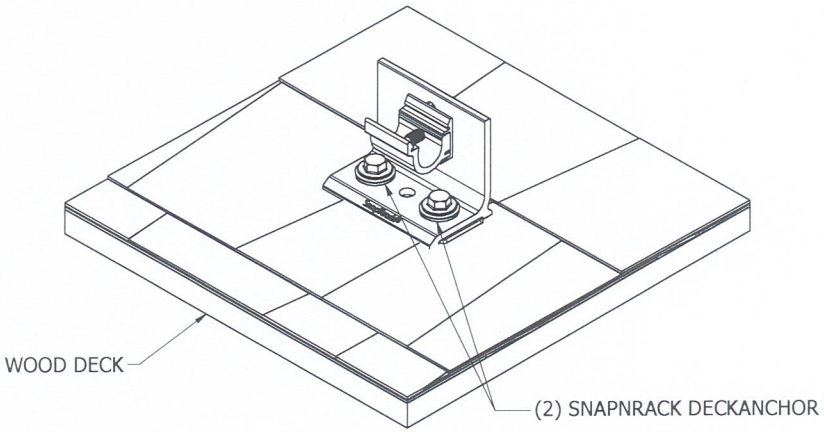
Report # 5117.02-119-18

Date 2/4/25 Tech AJS





RAFTER ATTACHMENT



DECK ATTACHMENT

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 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	4 OF 5

NOTES:

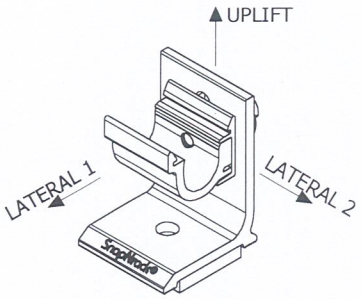
1. THIS SYSTEM COMPLIES WITH THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING HVHZ
2. THIS SYSTEM HAS BEEN TESTED TO THE TAS100(A) AND ASTM D7147 STANDARDS. IMPACT RESISTANCE IS NOT REQUIRED, AS IT IS NOT PART OF THE BUILDING ENVELOPE
3. INSTALLATIONS MUST FOLLOW THE SNAPNRACK ULTRA RAIL SYSTEM 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

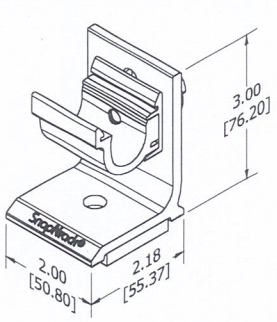
ITEM	DESCRIPTION	MATERIAL	MIN YIELD (KSI)	MINIMUM ULTIMATE (KSI)
1	BOLT, WIDE FLANGE, 5/16"-18	STAINLESS STEEL, 300 SERIES	60	95
2	SPRING	STAINLESS STEEL, 300 SERIES	N/A	N/A
3	ULTRAFOOT BASE (RAFTER, DECK, OR ANCHOR)	ALUMINUM, 6000 SERIES	34	38
4	UR FLIP CLAMP, THRU	ALUMINUM, 6000 SERIES	34	38
5	UF FLIP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

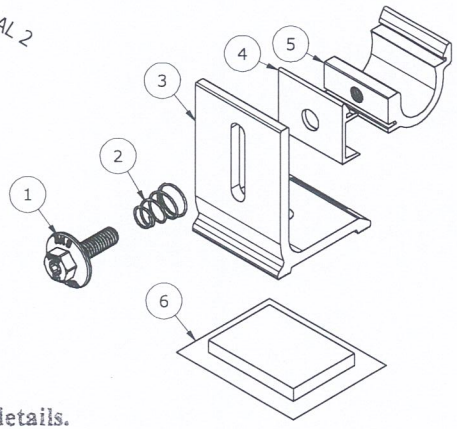
REVISION:

A	2/3/2025	RELEASED	MJA

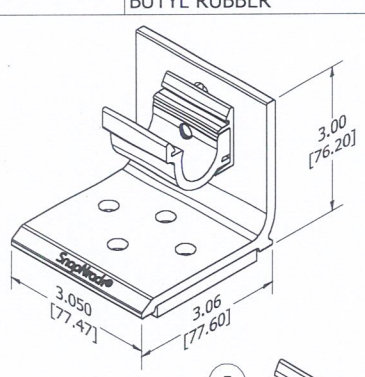


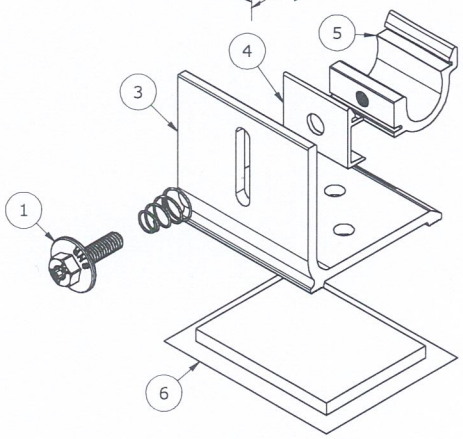
LOAD DIRECTIONS



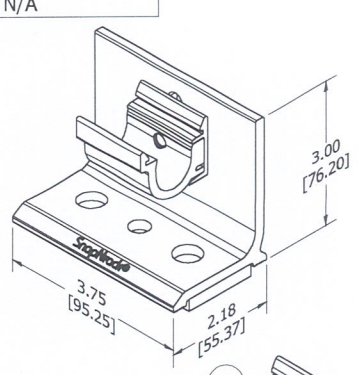


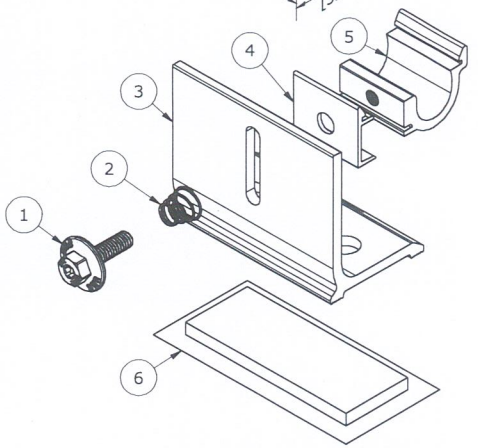
ULTRAFOOT, RAFTER





ULTRAFOOT, DECK





ULTRAFOOT, ANCHOR

intertek

Test sample complies with these details.
Deviations are noted.

Report # 5171.02-119-18

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
SAN LUIS OBISPO, CA 93401
CONTACT@SNAPNRACK.COM

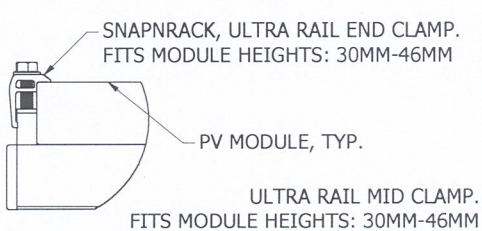
UNITS:	DATE:	SHEET SIZE:	SCALE:	SHEET NUMBER:
IN, LB, DEG [MM, KG, DEG]	2/3/2025	11 IN X 17 IN	NTS	1 OF 5

NOTES:

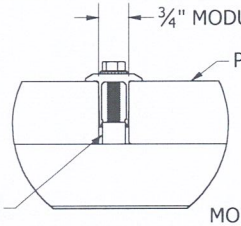
1. BOTH THE UNIVERSAL END CLAMP AND ULTRA RAIL END CLAMP MAY BE USED ON END MODULES
2. MODULES MAY BE CLAMPED ON SHORT OR LONG SIDE PER MODULE MANUFACTURER REQUIREMENTS
3. RAILS MAY BE MOUNTED UP/DOWN OR ACROSS THE SLOPE OF THE ROOF
4. A THIRD RAIL MAY BE ADDED IN THE MIDDLE OF THE PANEL FOR INCREASED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

REVISION:

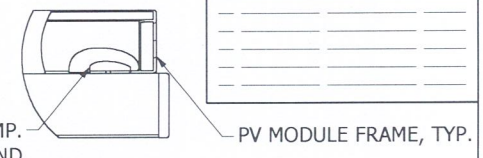
A	2/3/2025	RELEASED	MJA



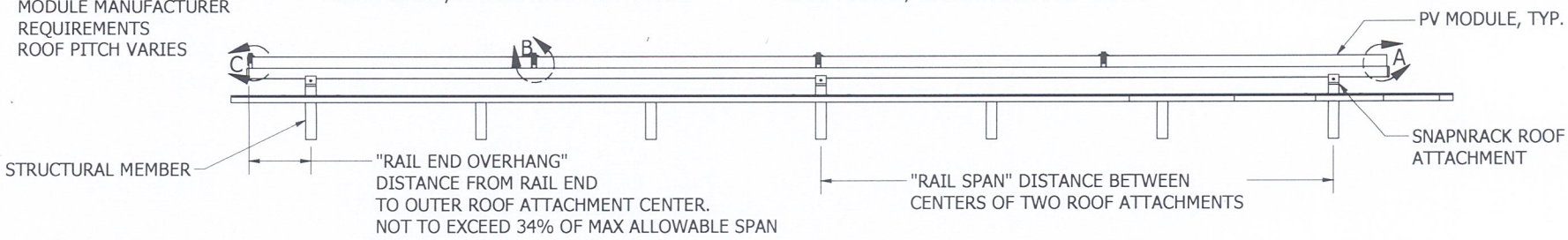
DETAIL C:
SNAPNRACK, ULTRA RAIL END CLAMP

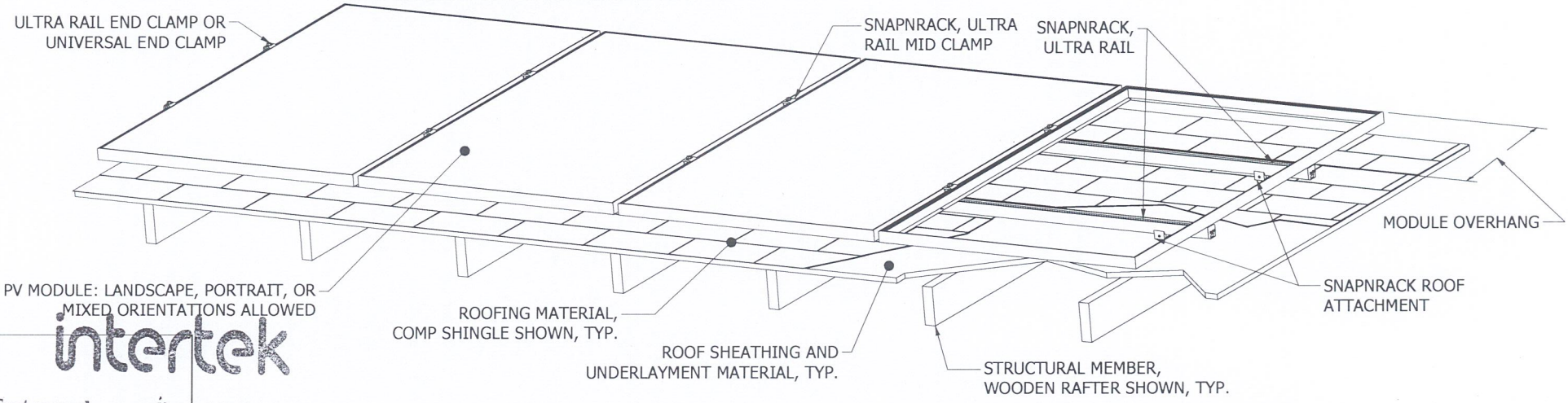


DETAIL B:
SNAPNRACK, ULTRA RAIL MID CLAMP



DETAIL A:
SNAPNRACK, UNIVERSAL END CLAMP





intertek

Test sample complies with these details.
Deviations are noted.

Report # 5117102-119-13

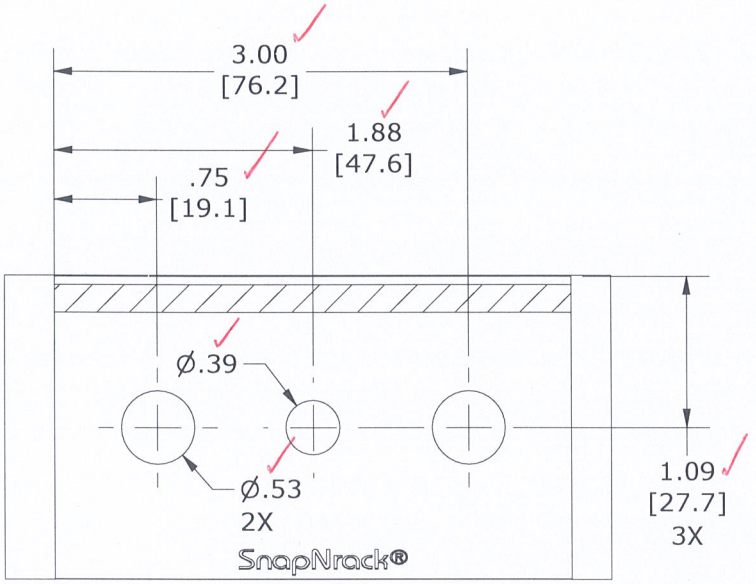
Date 2/7/25 Tech ATS

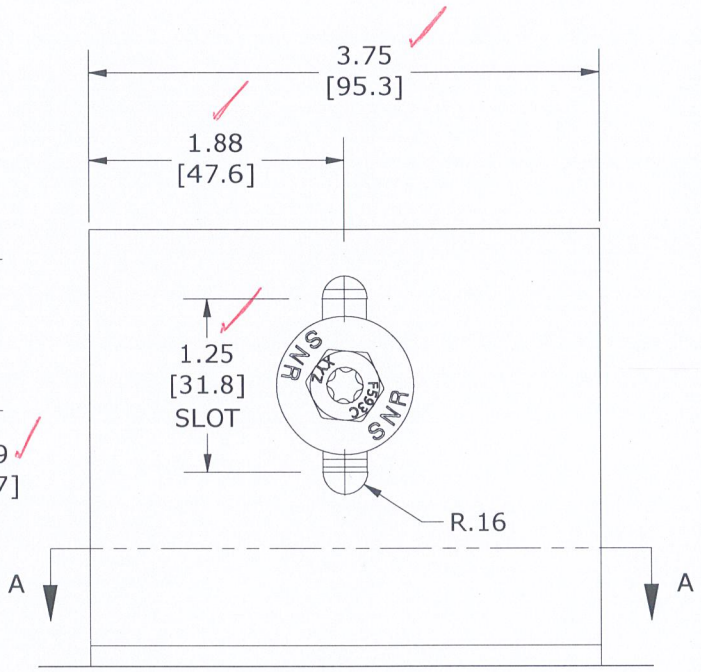
PE SIGNATURE:	PE DATE:	DESCRIPTION:	DRAWING NUMBER:	REV:
		ULTRA RAIL PV MOUNTING SYSTEM WITH ULTRAFOOT ROOF ATTACHMENTS FAMILY	SNR-DC-00485	A

SNR SOLAR LLC
775 FIERO LANE, SUITE 200
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	2 OF 5

DESCRIPTION:	DOC NUMBER:	SnapNrack®
SNAPNRACK, TDS, ULTRAFOOT ANCHOR	SNR-DC-01438	
PART NUMBER(S):	DRAWN BY: H.WULFEKOETTER	SNR SOLAR LLC 775 FIERO LANE, SUITE 200 SAN LUIS OBISPO, CA 93401 USA EMAIL: CONTACT@SNAPNRACK.COM
242-10058	REV: A / DATE: 8/28/2024	
UNITS: IN, LB, DEG [MM, KG, DEG] / SHEET: 2:2		





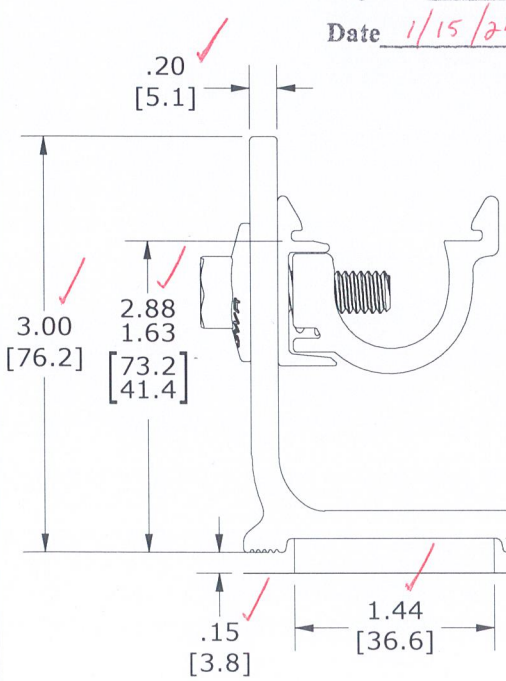
SECTION A-A

intertek

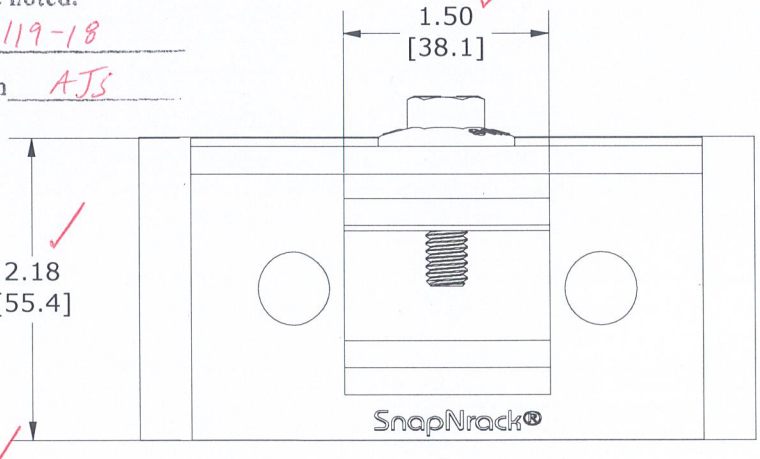
Test sample complies with these details.
Deviations are noted.

Report # 5117.02-119-18

Date 1/15/25 Tech AJS

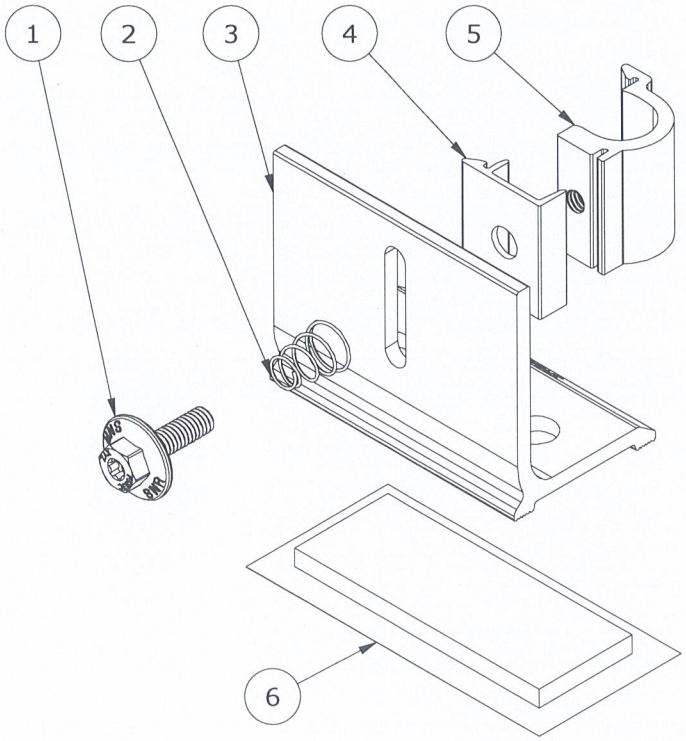


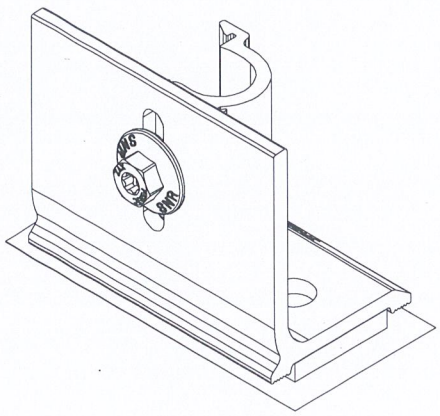
BACK

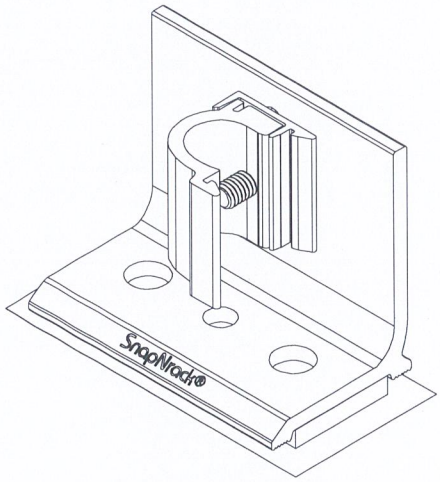


TOP

DESCRIPTION:	DOC NUMBER:	SnapNrack®
SNAPNRACK, TDS, ULTRAFOOT ANCHOR	SNR-DC-01438	
	DRAWN BY:	
PART NUMBER(S):	H.WULFEKOETTER	
242-10058	REV: A / DATE: 8/28/2024	SNR SOLAR LLC 775 FIERO LANE, SUITE 200 SAN LUIS OBISPO, CA 93401 USA EMAIL: CONTACT@SNAPNRACK.COM
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, 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

intertek

Test sample complies with these details.
Deviations are noted.

Report # 5117.02-119-18

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):	0.550

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
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	20-24	Updated Drawing Package