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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, DECK* MOUNT WITH FOUR, #14 BY 2-1/4 IN OR TWO, #14 BY 3 IN WOOD SCREWS - DECK AND RAFTER MOUNT

REPORT NUMBER
S1170.02-119-18 R1

TEST DATES
12/04/24 - 12/18/24

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

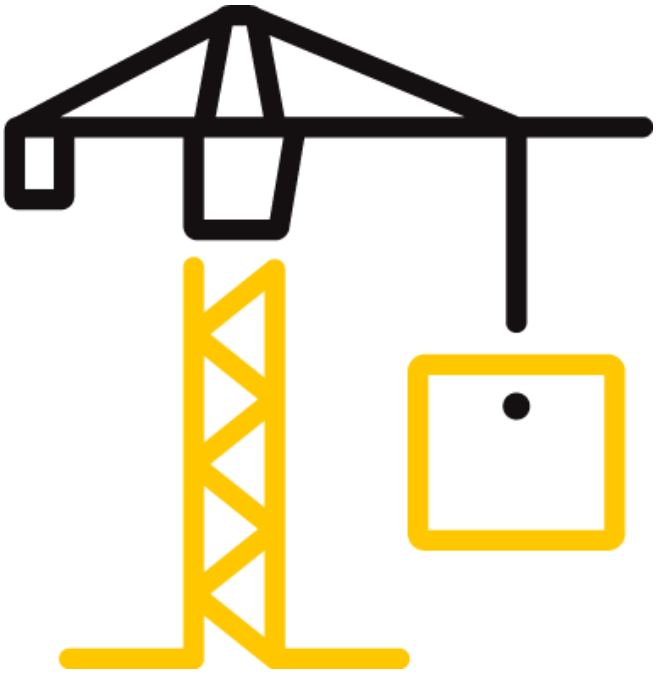
RECORD RETENTION END DATE
12/18/34

MIAMI-DADE COUNTY NOTIFICATION NO.
ATI24089

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.: S1170.02-119-18 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, Deck* mount with four, #14 by 2-1/4 in or two, #14 by 3 in wood screws - 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 09:39:32 -05'00'

AJS:vtm/tad/aas

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SECTION 2
SUMMARY OF TEST RESULTS

***UltraFoot, Deck* with Four, #14 by 2-1/4 in Wood Screws - Deck Mount**

UPLIFT RESISTANCE [1]	Average Load at 1/8 in Displacement - 121 lbf Average Ultimate Load - 439 lbf
SHEAR PERPENDICULAR TO THE FLANGE [1, 2]	Average Load at 1/8 in Displacement - 140 lbf Average Ultimate Load - 1053 lbf
SHEAR PARALLEL TO THE FLANGE [1, 2]	Average Load at 1/8 in Displacement - 370 lbf Average Ultimate Load - 1106 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, Deck* with Two, #14 by 3 in Wood Screws - Rafter Mount**

UPLIFT RESISTANCE [1]	Average Load at 1/8 in Displacement - 626 lbf Average Ultimate Load - 1173 lbf
SHEAR PERPENDICULAR TO THE FLANGE [1, 2]	Average Load at 1/8 in Displacement - 655 lbf Average Ultimate Load - 3061 lbf
SHEAR PARALLEL TO THE FLANGE [1, 2]	Average Load at 1/8 in Displacement - 812 lbf Average Ultimate Load - 3498 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, Deck* mount to the mock roof and did not evaluate the *UltraFoot, Deck* 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.

See photographs of test specimens in Section 10.

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, Deck* mount is a 3 in long angle-shaped aluminum extrusion with a 3 in horizontal leg and a 3 in vertical leg (flange).

Deck Mount Condition:
Each mount was fastened to the plywood (deck) of the mock roof with four, #14-10 by 2-1/4 in, stainless steel, hex-washer head, Type A point wood screws with sealing washers.

Rafter Mount Condition:
Each mount was fastened to the mock roof with two, #14-10 by 3 in, stainless steel, hex- head, Type A point wood screws with sealing washers. All fasteners were 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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Report No.: S1170.02-119-18 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, Deck* with Four, #14 by 2-1/4 in Wood Screws - Deck Mount**
Test Date: 12/09/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	27	17	25
0.040	46	37	44
0.060	65	58	60
0.080	83	78	77
0.100	102	99	93
0.120	120	118	110
0.140	140	137	127
0.160	160	157	144
0.180	181	176	163
0.200	202	195	182
Ultimate Load:	471	369	476

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	471	+7.3%	125	Wood screws withdrew from mock roof
2	369	-15.9%	123	
3	476	+8.5%	114	
Average:	**439**	**Average:**	**121**	
		Standard Deviation:	6	
		Coefficient of Variation:	5%	

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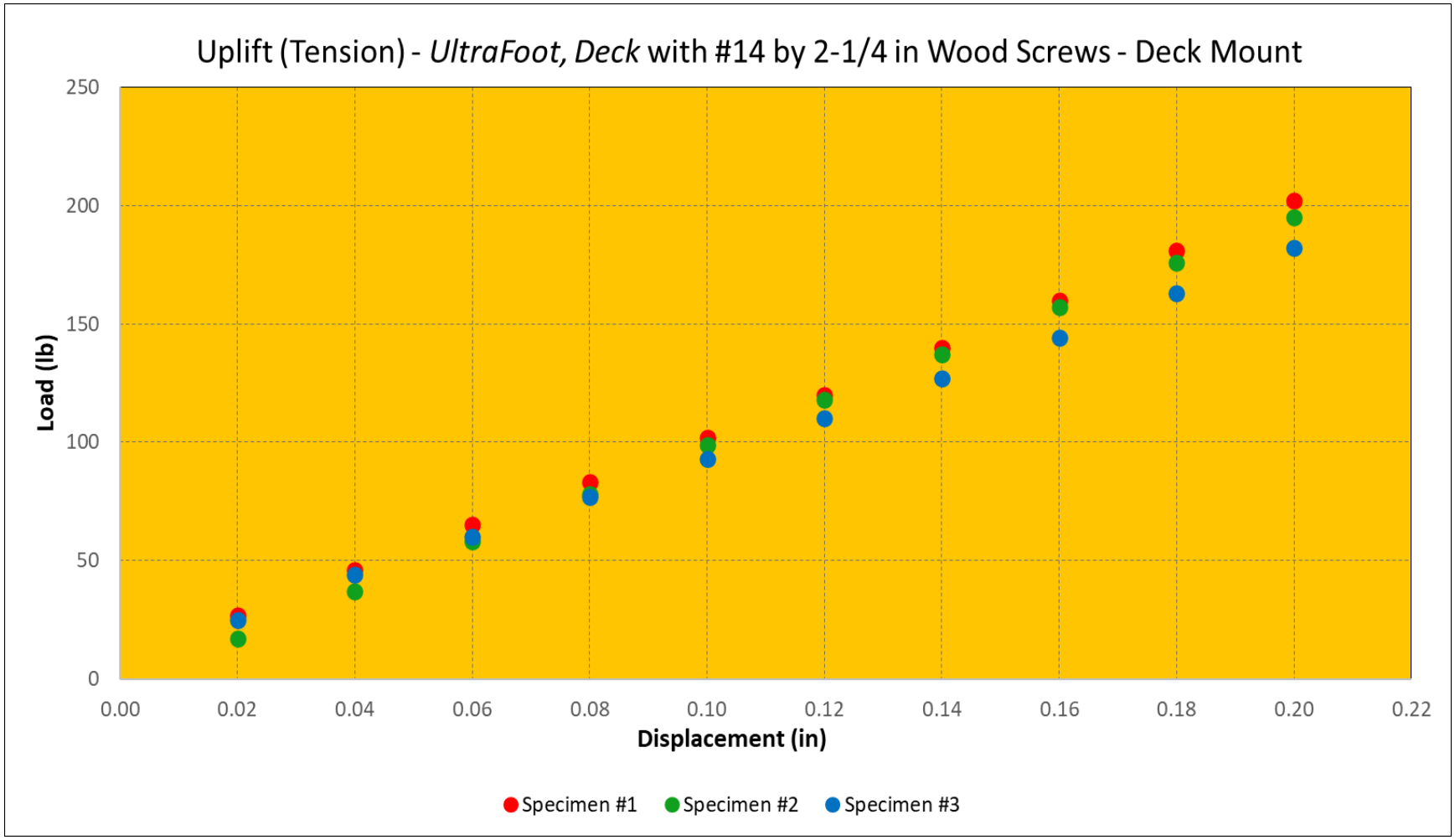

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***UltraFoot, Deck* with Two, #14 by 3 in Wood Screws - Rafter Mount**
Test Date: 12/04/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	55	86	11
0.040	127	187	43
0.060	227	315	93
0.080	346	460	160
0.100	481	620	249
0.120	622	787	366
0.140	739	941	511
0.160	817	1070	678
0.180	851	1174	840
0.200	834	1267	966
Ultimate Load:	851	1354	1314

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	851	-27.5%	651	Wood screws withdrew from mock roof
2	1354	+15.4%	826	
3	1314	+12.0%	402	
Average:	**1173**	**Average:**	**626**	
		Standard Deviation:	213	
		Coefficient of Variation:	34%	

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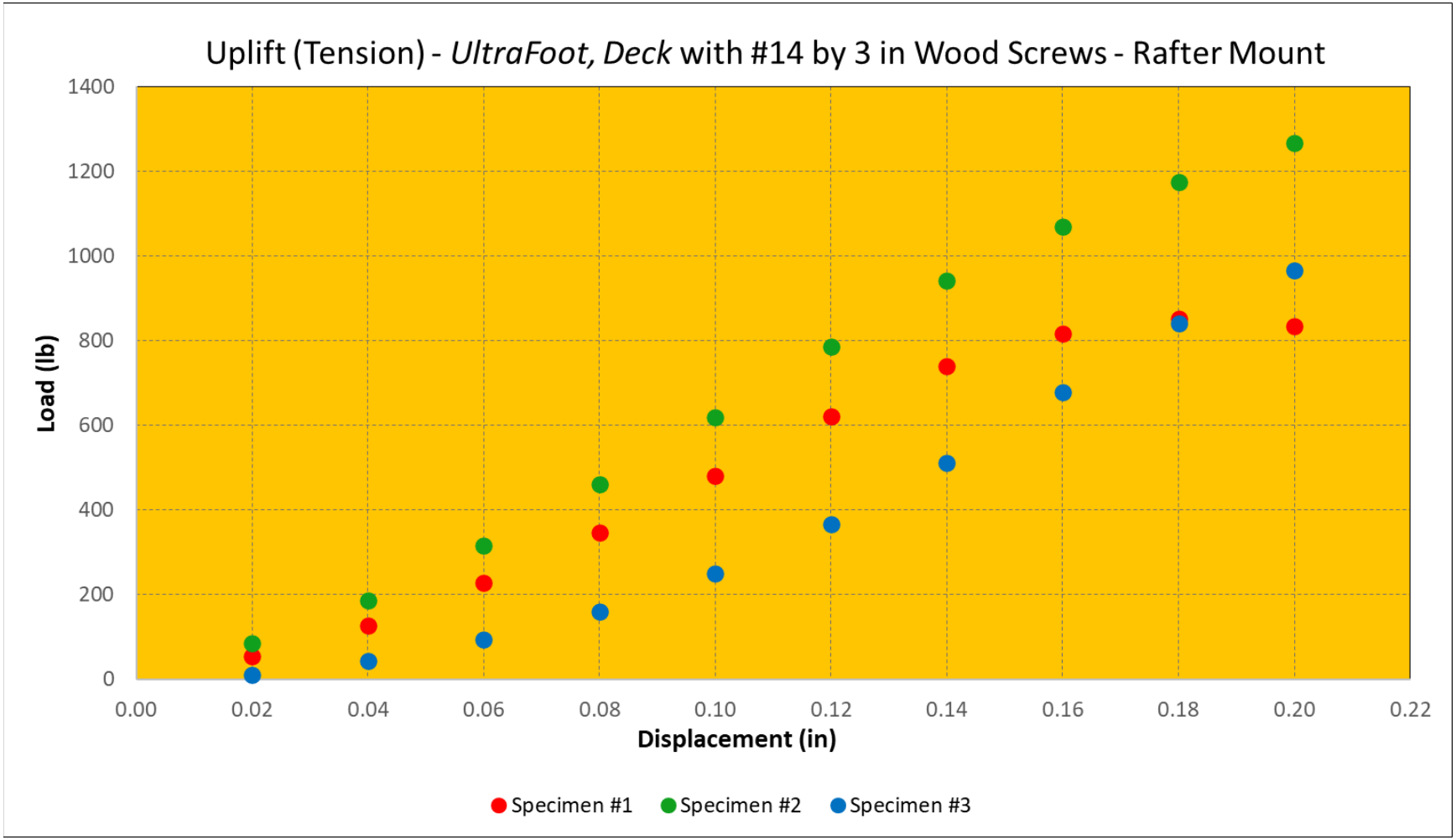

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Shear Load Testing
Test/Ultimate loads should not be used as design loads or safe working loads.

***UltraFoot, Deck* with Four, #14 by 2-1/4 in Wood Screws - Deck 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	24	29	24
0.040	40	48	44
0.060	67	65	67
0.080	91	81	89
0.100	117	97	112
0.120	144	117	134
0.140	177	143	176
0.160	221	168	235
0.180	295	194	271
0.200	338	224	306
Ultimate Load:	1423	844	893

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	1423	+35.1%	152	Wood screws bent and pulled through mock roof
2	844	-19.9%	124	
3	893	-15.2%	145	
Average:	**1053**	**Average:**	**140**	
		Standard Deviation:	15	
		Coefficient of Variation:	11%	

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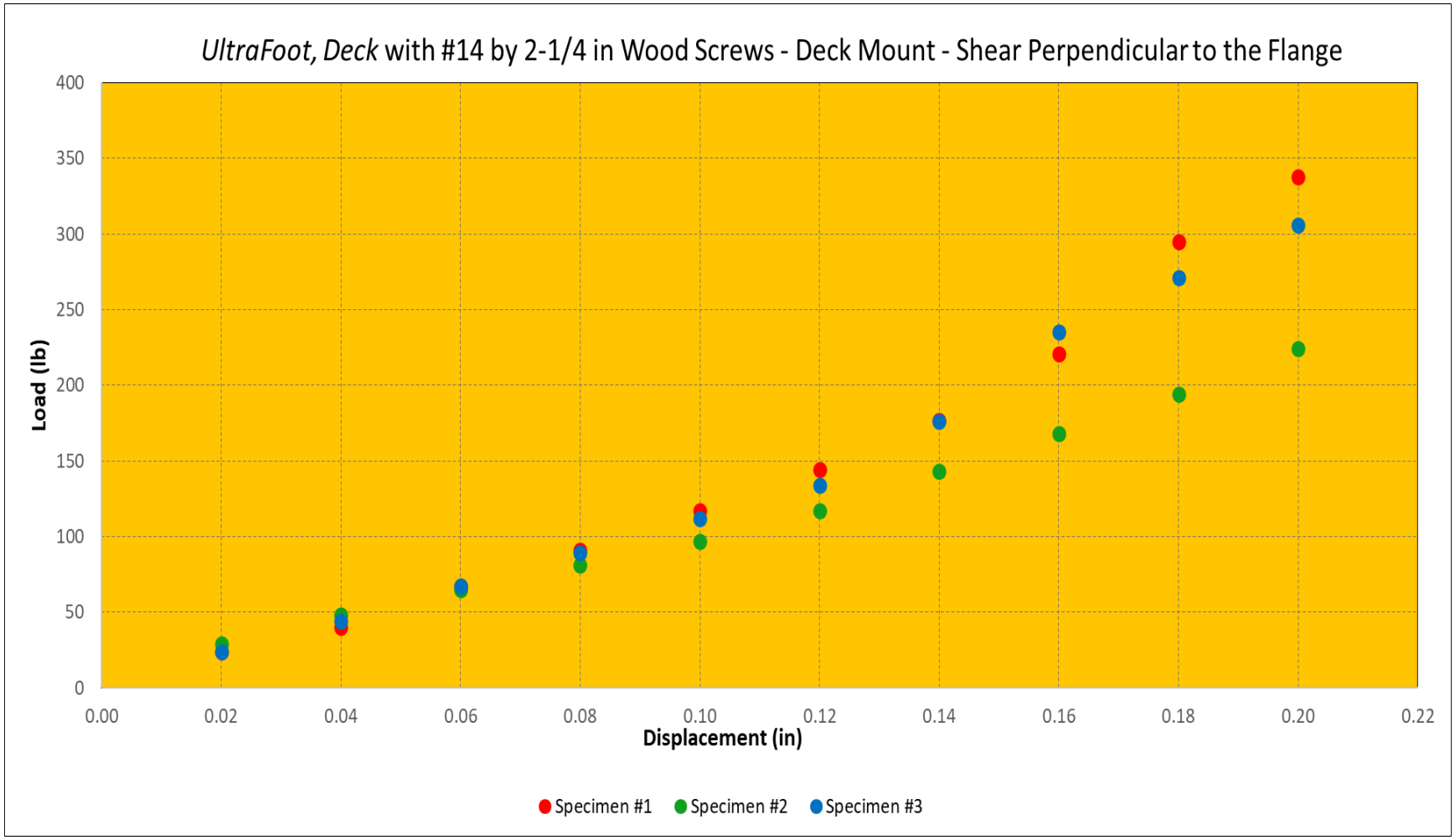

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***UltraFoot, Deck* with Four, #14 by 2-1/4 in Wood Screws - Deck Mount (Shear Parallel to the Flange)**
Test Date: 12/18/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	130	63	45
0.040	174	103	92
0.060	210	150	145
0.080	238	217	209
0.100	278	293	270
0.120	320	380	348
0.140	373	476	446
0.160	439	575	557
0.180	--	681	670
0.200	--	793	779
Ultimate Load:	1014	1302	1002

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	1014	-8.3%	333	Wood screws bent and pulled through mock roof
2	1302	+17.7%	404	
3	1002	-9.4%	373	
Average:	**1106**	**Average:**	**370**	
		Standard Deviation:	35	
		Coefficient of Variation:	10%	

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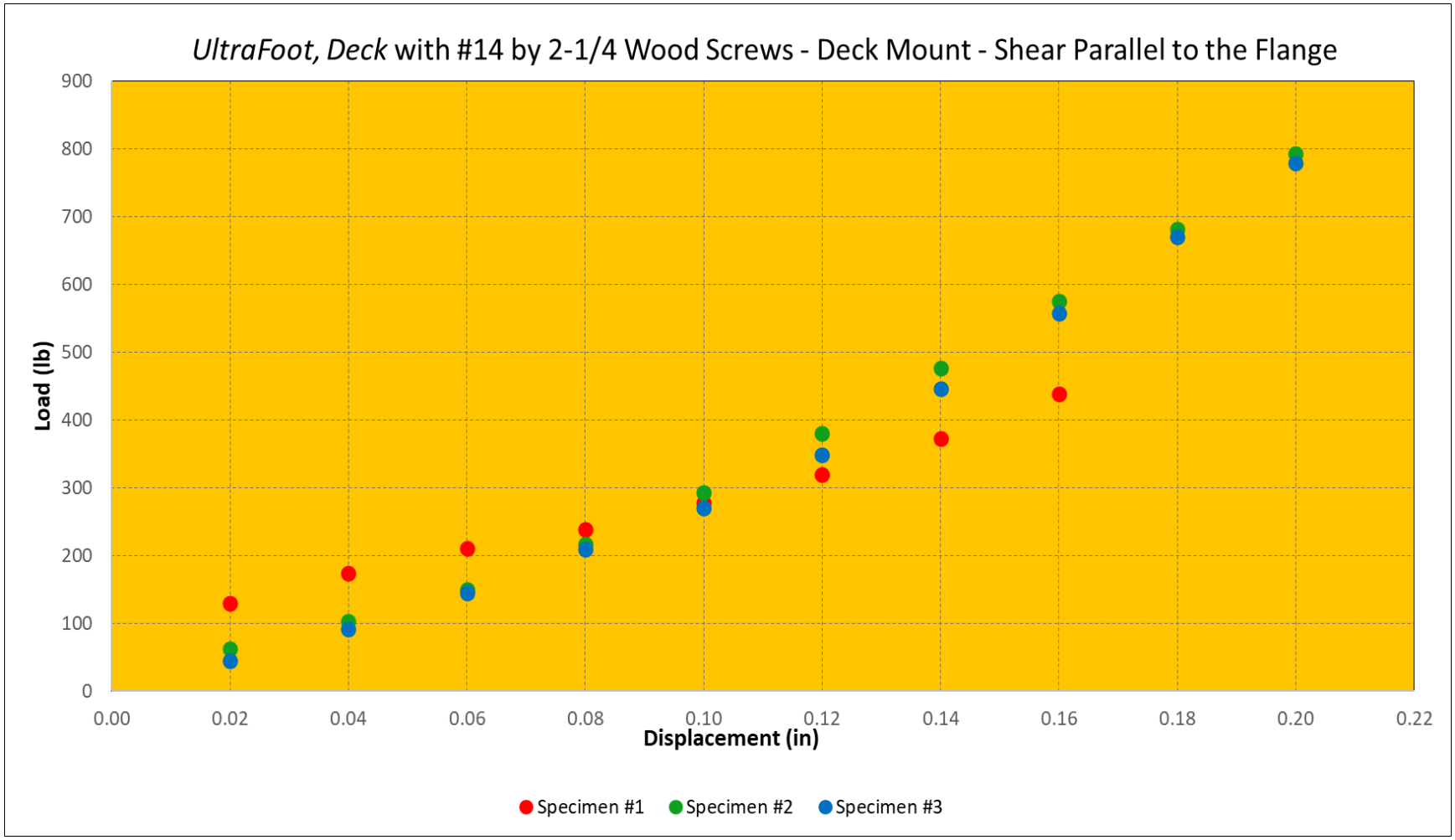

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***UltraFoot, Deck* with Two, #14 by 3 in Wood Screws - Rafter Mount (Shear Perpendicular to the Flange)**
Test Date: 12/17/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	220	94	162
0.040	280	208	277
0.060	325	311	388
0.080	400	404	487
0.100	466	493	634
0.120	538	575	778
0.140	622	660	906
0.160	715	767	1018
0.180	799	875	1127
0.200	880	982	1237
Ultimate Load:	2603	3471	3109

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	2603	-15.0%	559	Wood screws bent and pulled through mock roof
2	3471	+13.4%	596	
3	3109	+1.6%	810	
Average:	**3061**	**Average:**	**655**	
		Standard Deviation:	135	
		Coefficient of Variation:	21%	

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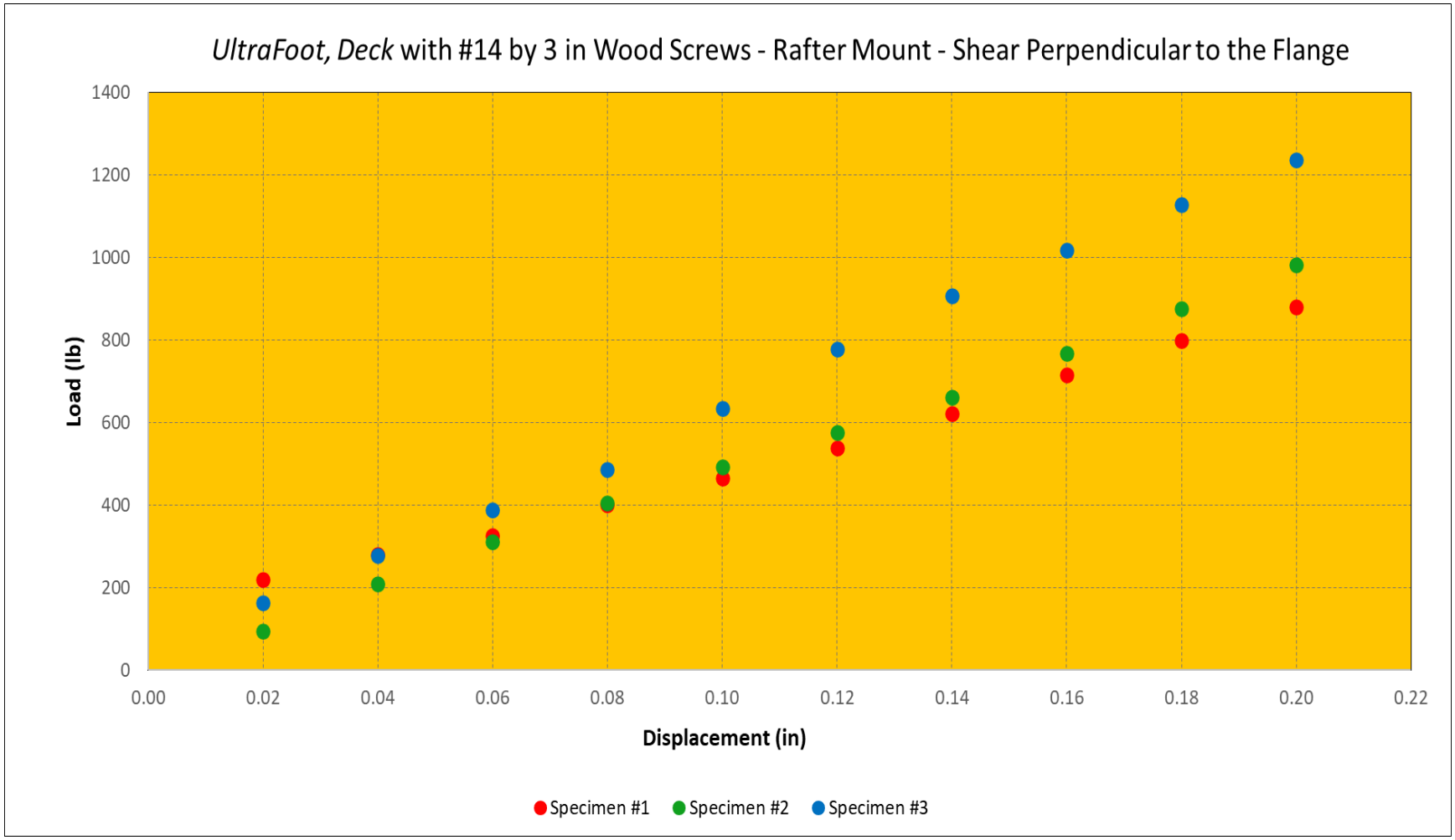

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***UltraFoot, Deck* with Two, #14 by 3 in Wood Screws - Rafter Mount (Shear Parallel to the Flange)**
Test Date: 12/18/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	178	81	110
0.040	264	133	204
0.060	370	223	324
0.080	484	306	562
0.100	640	374	812
0.120	850	456	1030
0.140	1005	520	1210
0.160	1168	578	1343
0.180	1313	637	1490
0.200	1426	694	1620
Ultimate Load:	3527	3639	3328

SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	3527	+0.8%	889	Wood screws bent and pulled through mock roof
2	3639	+4.0%	472	
3	3328	-4.9%	1075	
Average:	**3498**	**Average:**	**812**	
		Standard Deviation:	309	
		Coefficient of Variation:	38%	

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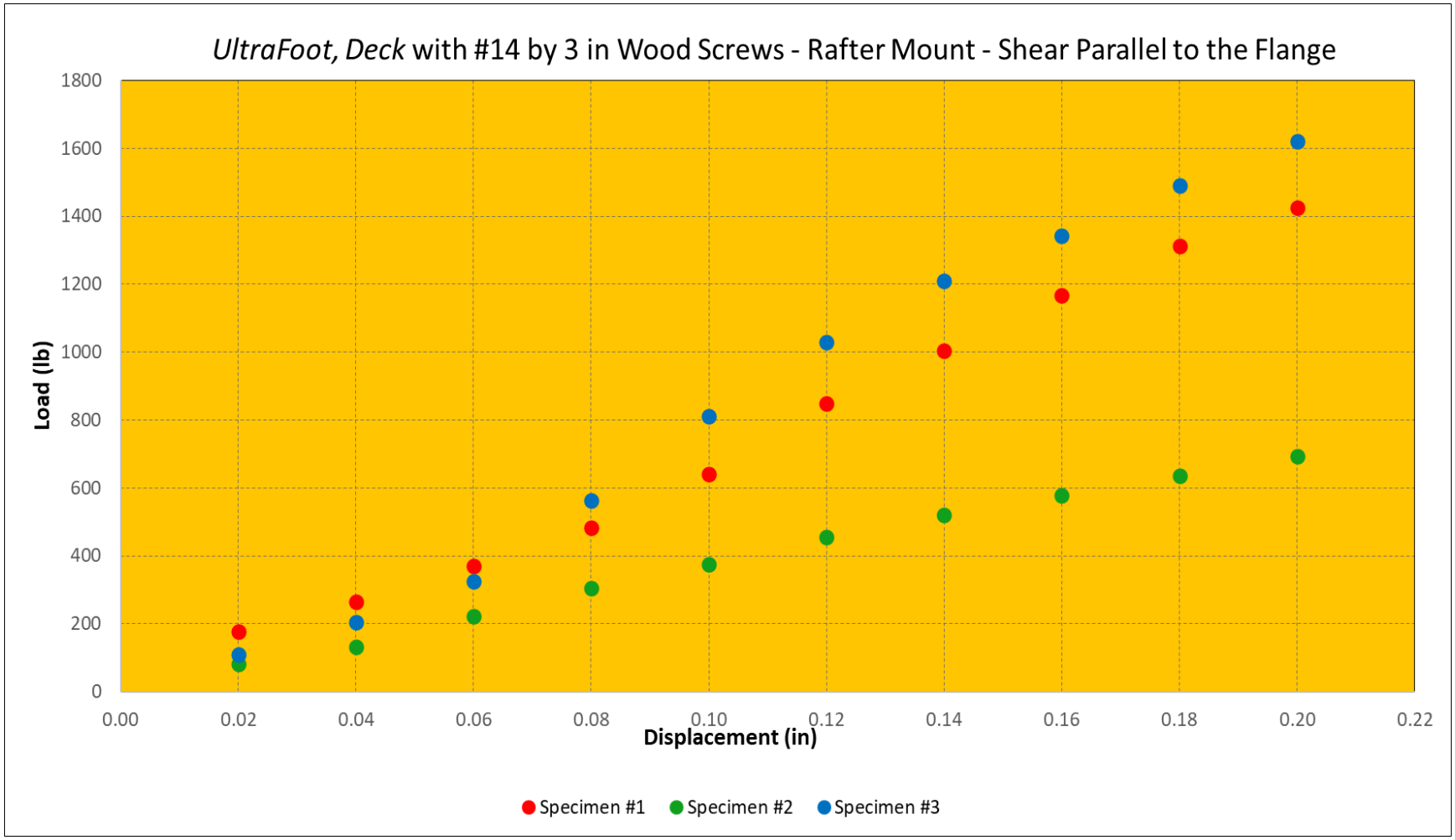

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SECTION 10
PHOTOGRAPHS

Photo No. 1
Uplift Testing

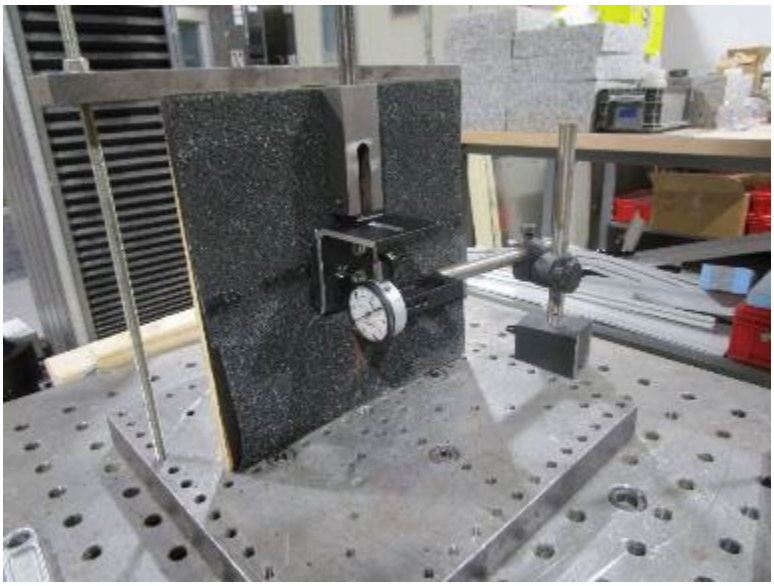

Photo No. 2
Shear Perpendicular to the Flange

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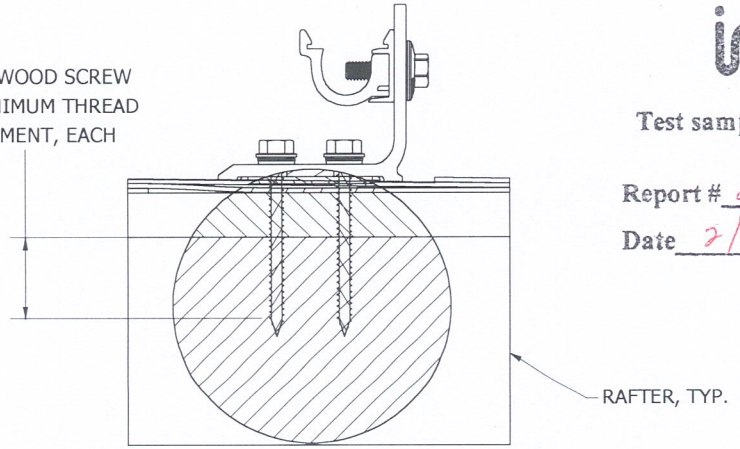
Photo No. 3
Shear Parallel to the Flange

SECTION 11
DRAWINGS

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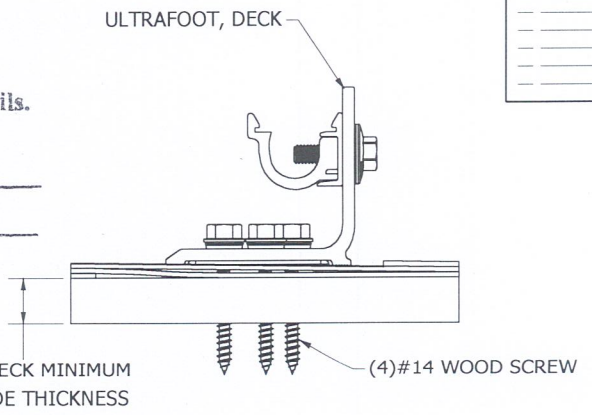
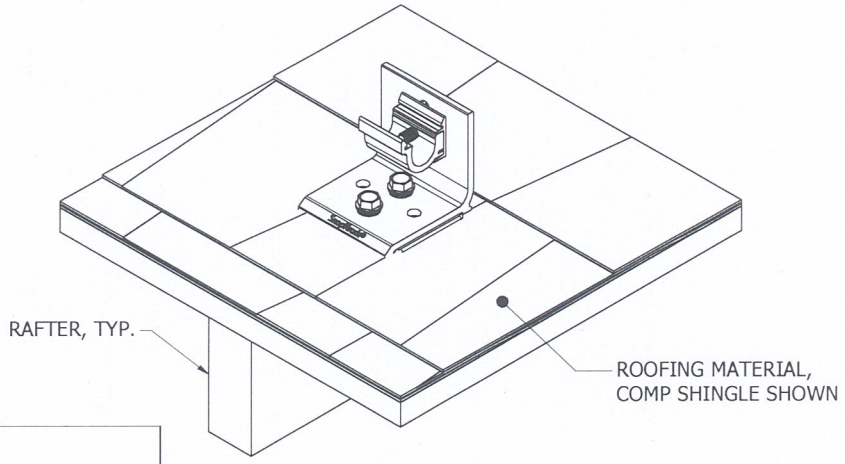
Test sample complies with these details.
Deviations are noted.

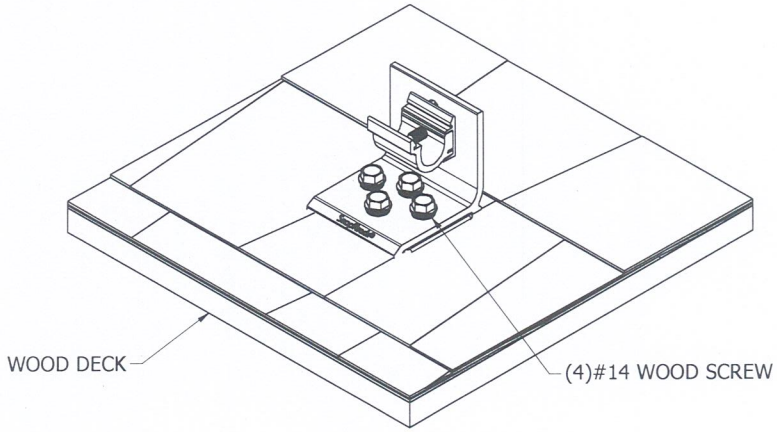
Report # 5170.02-119-18

Date 2/4/25 Tech AJS





RAFTER ATTACHMENT



DECK ATTACHMENT

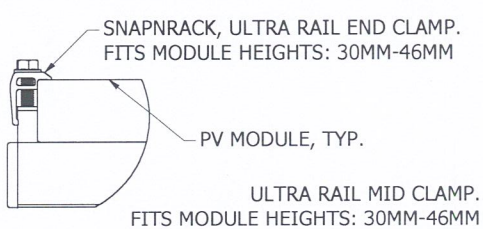
PE SIGNATURE:	PE DATE:	DESCRIPTION:	DRAWING NUMBER:	REV:
		ULTRA RAIL PV MOUNTING SYSTEM WITH ULTRAFOOT ROOF ATTACHMENTS FAMILY	SNR-DC-00485	A

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	5 OF 5

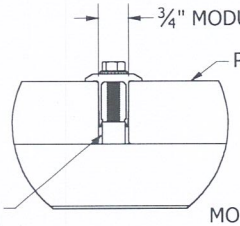
NOTES:

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

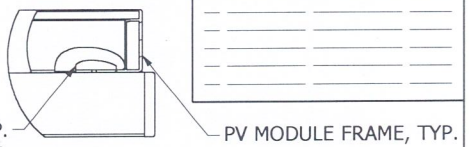
REVISION:			
A	2/3/2025	RELEASED	MJA



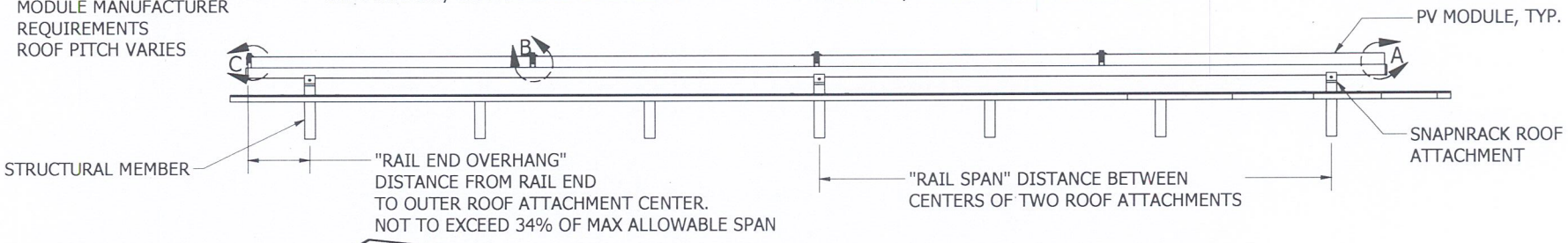
DETAIL C:
SNAPNRACK, ULTRA RAIL END CLAMP

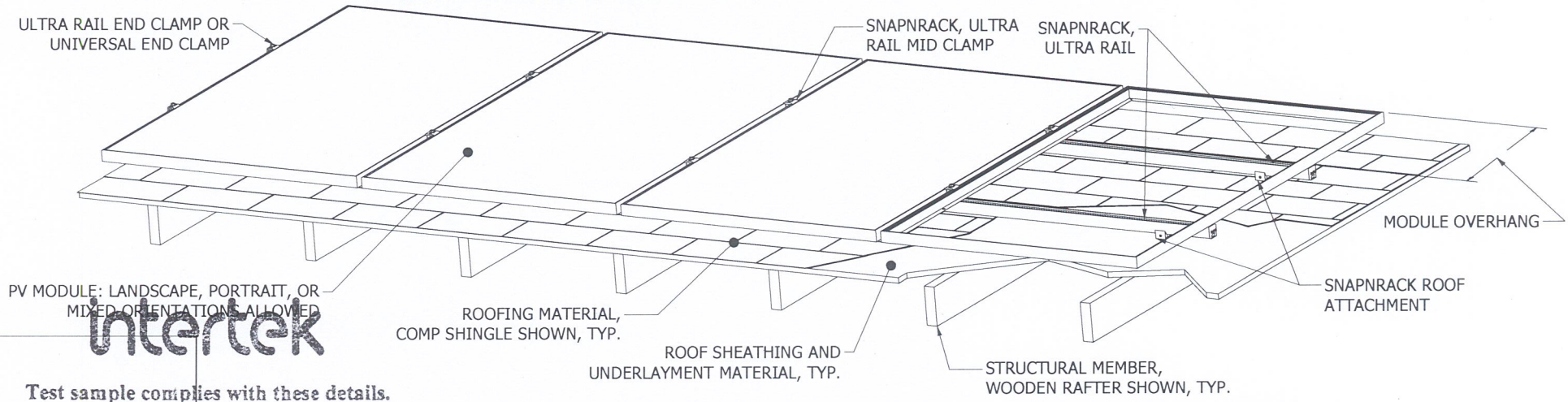


DETAIL B:
SNAPNRACK, ULTRA RAIL MID CLAMP



DETAIL A:
SNAPNRACK, UNIVERSAL END CLAMP





Intertek

Test sample complies with these details.
Deviations reviewed.

Report # 5170.02-119-18

Date 2/4/25 Tech AJS

SNR SOLAR LLC 775 FIERO LANE, SUITE 200 SAN LUIS OBISPO, CA 93401 CONTACT@SNAPNRACK.COM	PE DATE:	DESCRIPTION: ULTRA RAIL PV MOUNTING SYSTEM WITH ULTRAFOOT ROOF ATTACHMENTS FAMILY	DRAWING NUMBER: SNR-DC-00485	REV: A		
	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	

NOTES:

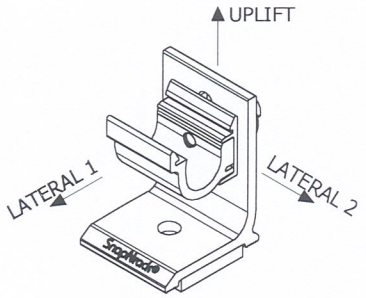
1. THIS SYSTEM COMPLIES WITH THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING HVHZ
2. THIS SYSTEM HAS BEEN TESTED TO THE TAS100(A) AND ASTM D7147 STANDARDS. IMPACT RESISTANCE IS NOT REQUIRED, AS IT IS NOT PART OF THE BUILDING ENVELOPE
3. INSTALLATIONS MUST FOLLOW THE SNAPNRACK ULTRA RAIL SYSTEM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

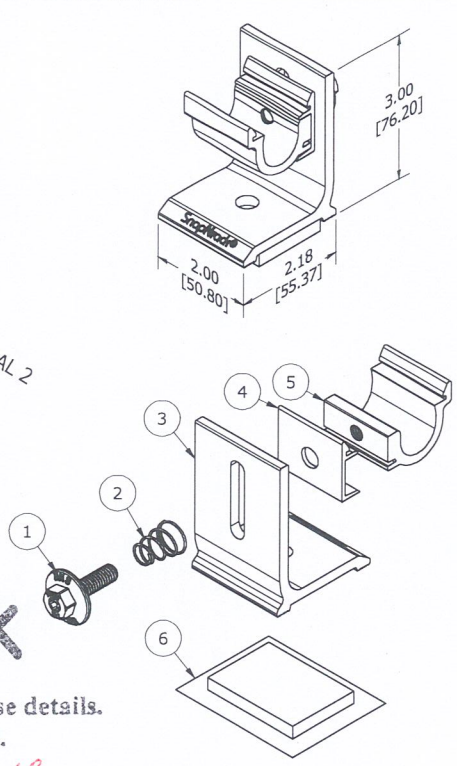
ITEM	DESCRIPTION	MATERIAL	MIN YIELD (KSI)	MINIMUM ULTIMATE (KSI)
1	BOLT, WIDE FLANGE, 5/16"-18	STAINLESS STEEL, 300 SERIES	60	95
2	SPRING	STAINLESS STEEL, 300 SERIES	N/A	N/A
3	ULTRAFOOT BASE (RAFTER, DECK, OR ANCHOR)	ALUMINUM, 6000 SERIES	34	38
4	UR FLIP CLAMP, THRU	ALUMINUM, 6000 SERIES	34	38
5	UF FLIP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

REVISION:

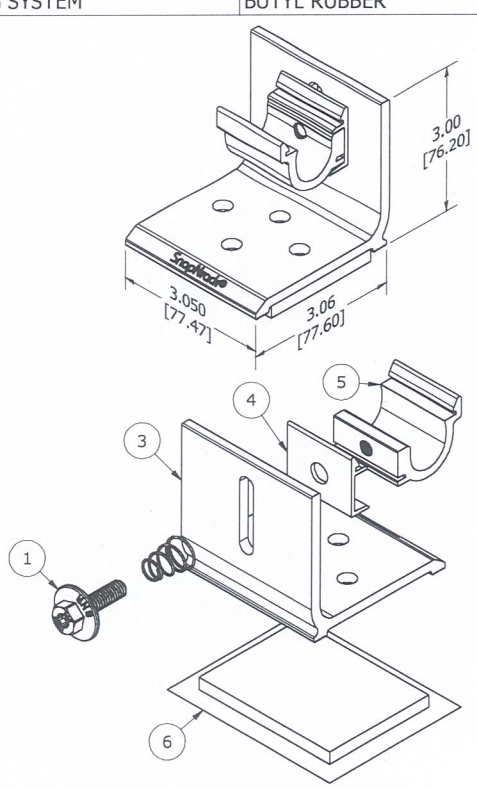
A	2/3/2025	RELEASED	MJA



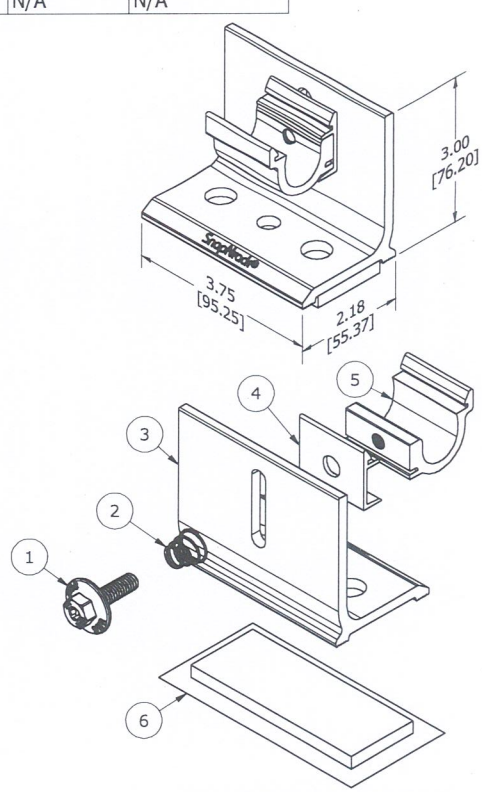
LOAD DIRECTIONS



ULTRAFOOT, RAFTER



ULTRAFOOT, DECK



ULTRAFOOT, ANCHOR

intertek

Test sample complies with these details.
Deviations are noted.

Report # S1170.02-119-18

Date 2/4/25 Tech AJS

SIGNATURE:

PE DATE:

DESCRIPTION: ULTRA RAIL PV MOUNTING SYSTEM WITH ULTRAFOOT ROOF ATTACHMENTS FAMILY

DRAWING NUMBER: SNR-DC-00485

REV: 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

DESCRIPTION: SNAPNRACK, TDS, ULTRAFOOT DECK		DOC NUMBER: SNR-DC-01437	SnapNrack®
PART NUMBER(S): 242-10057		DRAWN BY: H.WULFEKOETTER	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: 2:2	REV: A / DATE: 8/28/2024	

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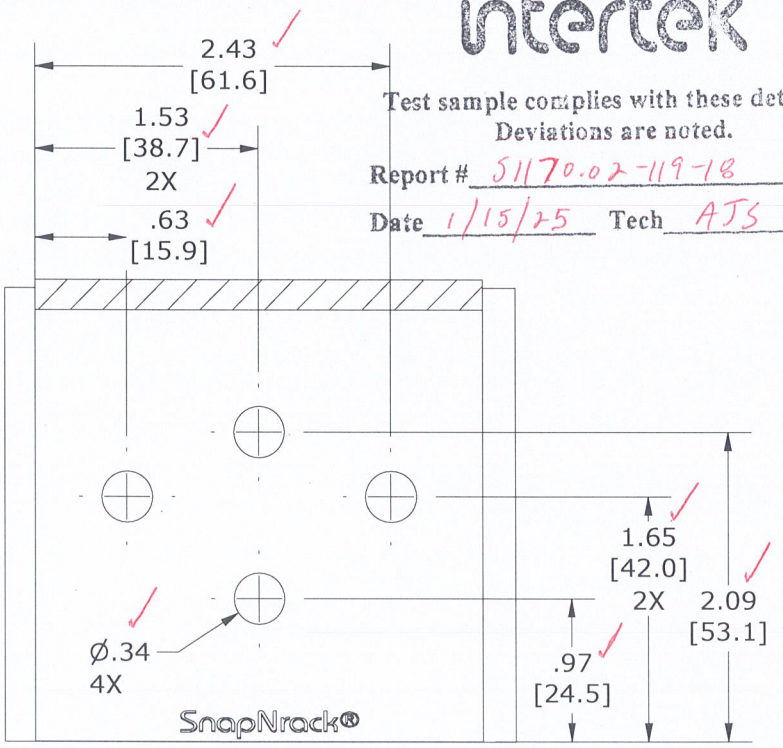
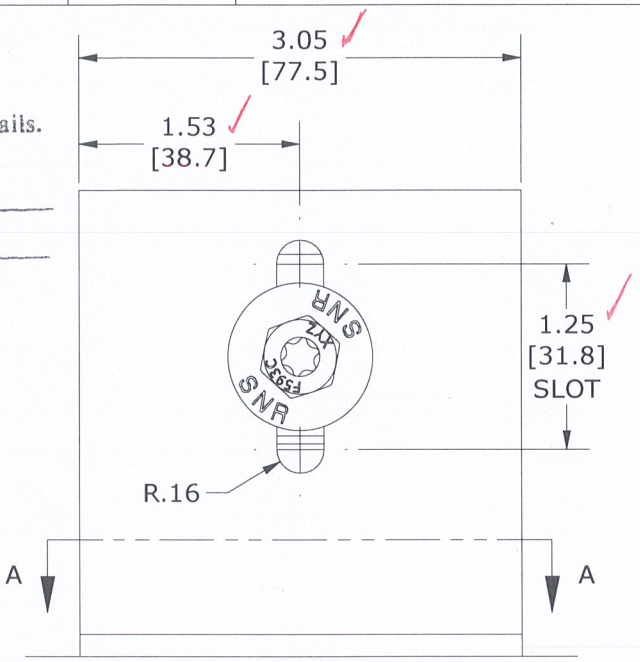
Test sample complies with these details.
Deviations are noted.

Report # 5170.02-119-18

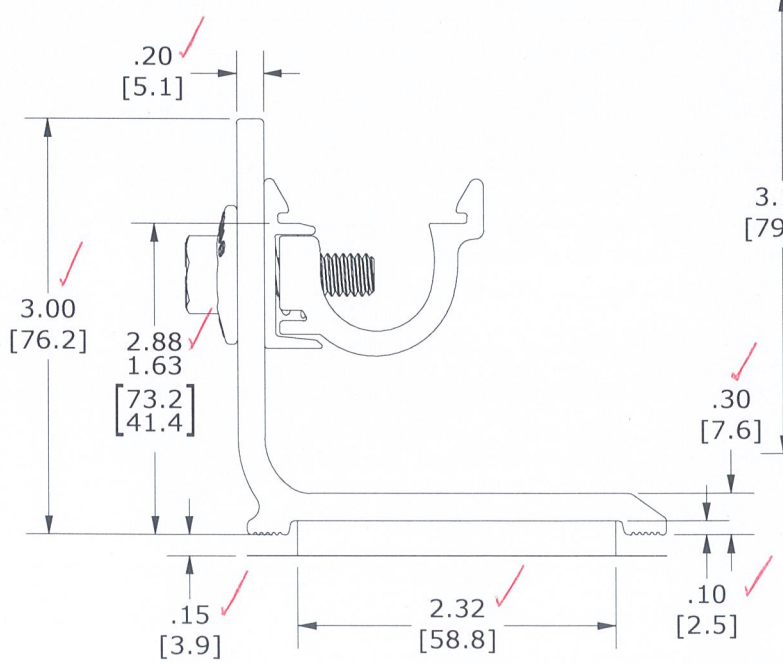
Date 1/15/25 Tech AJS

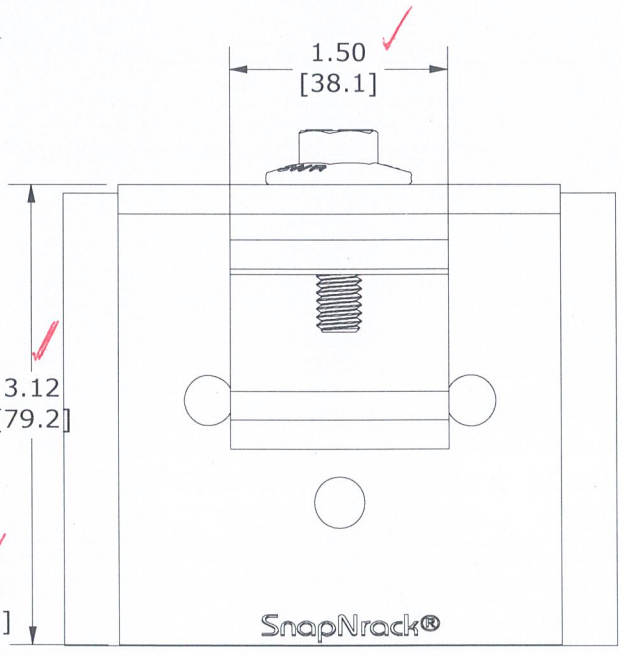


SECTION A-A



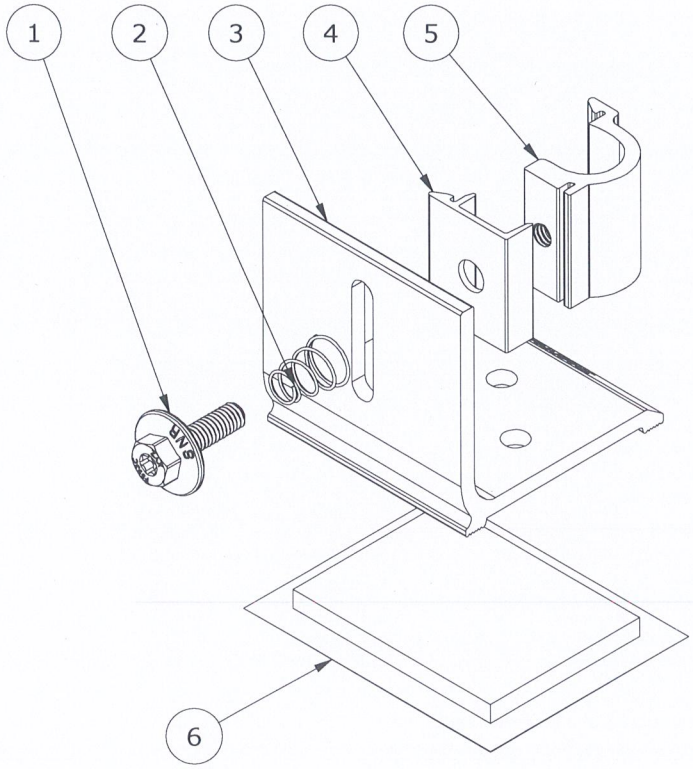
BACK

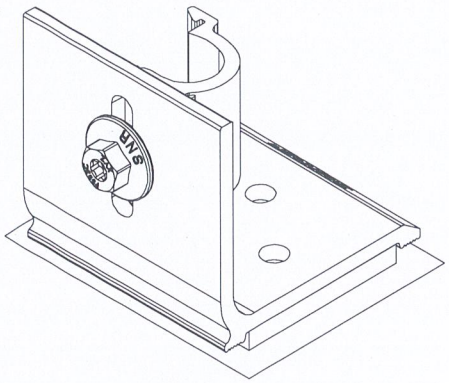


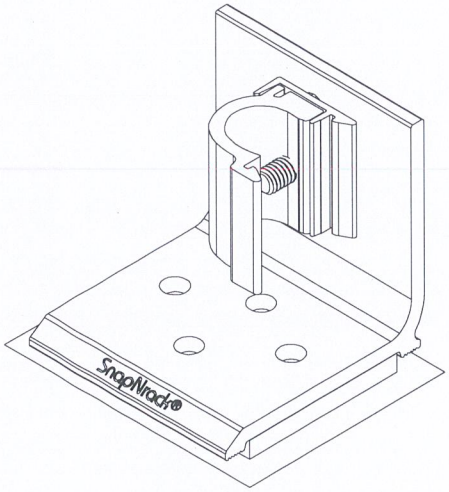


TOP

DESCRIPTION:	DOC NUMBER:	SnapNrack®
SNAPNRACK, TDS, ULTRAFOOT DECK	SNR-DC-01437	
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
242-10057	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, DECK, 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 # 5170.02-119-18

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):	0.551

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