

SNR SOLAR LLC. DBA SNAPNRACK MIAMI-DADE TEST REPORT

SCOPE OF WORK

ASTM D7147 UPLIFT AND SHEAR LOAD TESTING ON THE *ALPHATRACK* 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

REPORT NUMBER

S1175.02-119-18 R1

TEST DATES

12/09/24 - 12/20/24

ISSUE DATE

01/21/25

REVISED DATE

02/05/25

RECORD RETENTION END DATE

12/20/34

MIAMI-DADE COUNTY NOTIFICATION NO.

ATI24093

LABORATORY CERTIFICATION NO.

22-0428.14

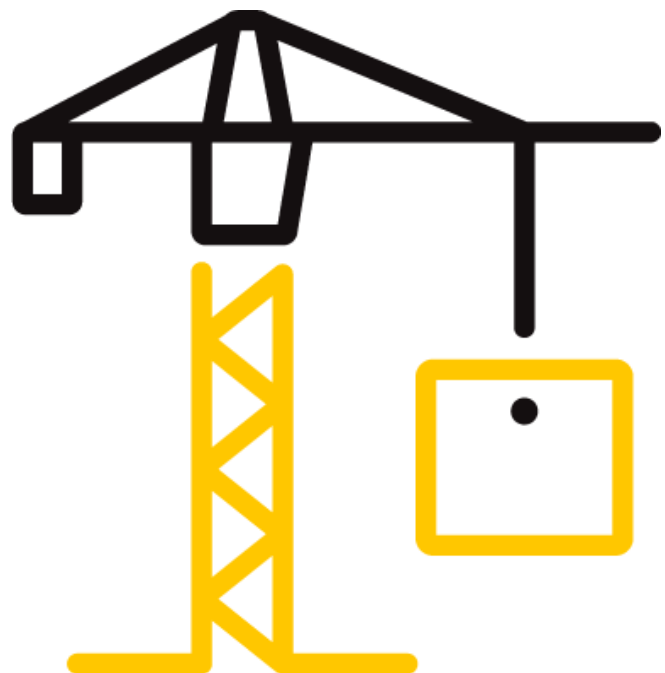
PAGES

26

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.: S1175.02-119-18 R1

Date: 01/21/25

Revised Date: 02/05/25

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 *AlphaTrack* mount with two, 1/2 in by 2-1/2 in *DeckAnchors* or one, 5/16 in lag screw - deck and 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:	
DATE:	02/05/25

REVIEWED BY:	V. Thomas Mickley, Jr., P.E.
TITLE:	Senior Staff Engineer
SIGNATURE:	
DATE:	02/05/25

COMPLETED BY:	Tanya A. Dolby, P.E.
TITLE:	Engineering Manager
SIGNATURE:	
DATE:	02/05/25

AJS:vtm/tad/aas

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SECTION 2

SUMMARY OF TEST RESULTS

AlphaTrack Mount with Two, 1/2 in by 2-1/2 in DeckAnchors - Deck Mount

UPLIFT RESISTANCE ¹	Average Load at 1/8 in Displacement - 110 lbf Average Ultimate Load - 611 lbf
SHEAR PARALLEL TO THE TRACK ^{1, 2}	Average Load at 1/8 in Displacement - 847 lbf Average Ultimate Load - 1439 lbf
SHEAR PERPENDICULAR TO THE TRACK ^{1, 2}	Average Load at 1/8 in Displacement - 687 lbf Average Ultimate Load - 1170 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.

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

UPLIFT RESISTANCE ¹	Average Load at 1/8 in Displacement - 88 lbf Average Ultimate Load - 1234 lbf
SHEAR PARALLEL TO THE TRACK ^{1, 2}	Average Load at 1/8 in Displacement - 907 lbf Average Ultimate Load - 3079 lbf
SHEAR PERPENDICULAR TO THE TRACK ^{1, 2}	Average Load at 1/8 in Displacement - 795 lbf Average Ultimate Load - 1935 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

Uplift testing reported herein evaluated the *AlphaTrack* mount as an assembly. The shear load testing reported herein evaluated the connection of the *AlphaTrack* mount to the mock roof and did not evaluate the *AlphaTrack* mount with an attached 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 *AlphaTrack* mount is an aluminum extrusion measuring 2-7/16 in wide by 5-3/4 in long by 1-1/4 in tall and has a 1-1/2 in wide by 4 in long black butyl seal adhered to the bottom. For uplift testing only, each track piece had an accompanying 4-1/4 in wide by 6 in tall by 1-1/2 in deep aluminum adjustable *RL Universal Mount* (also known as *TopSpeed Universal Mount*) connector, which is used to connect the solar panel to the track.

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.

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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 Mount Top at the top edge of the *RL Universal Mount* (also known as *TopSpeed Universal Mount*) connector (attached to the track) 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. A steel angle was placed at the edge of the track section, for the parallel load direction only, in order to keep the track section in the plane of load during the test. Load was applied to the specimen parallel to and perpendicular to the length of the *AlphaTrack* section. Load was applied, at the base of the *AlphaTrack*, to a bearing block through a load cell attached to the testing machine crosshead. Test speed was 0.10 in/min. Displacement was taken 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.

AlphaTrack with Two, 1/2 in by 2-1/2 in DeckAnchors - Deck Mount

Test Date: 12/16/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	16	31	13
0.040	28	55	23
0.060	41	76	34
0.080	54	99	49
0.100	68	123	64
0.120	86	147	80
0.140	106	171	98
0.160	127	196	117
0.180	148	221	135
0.200	170	245	154
Ultimate Load:	608	584	640

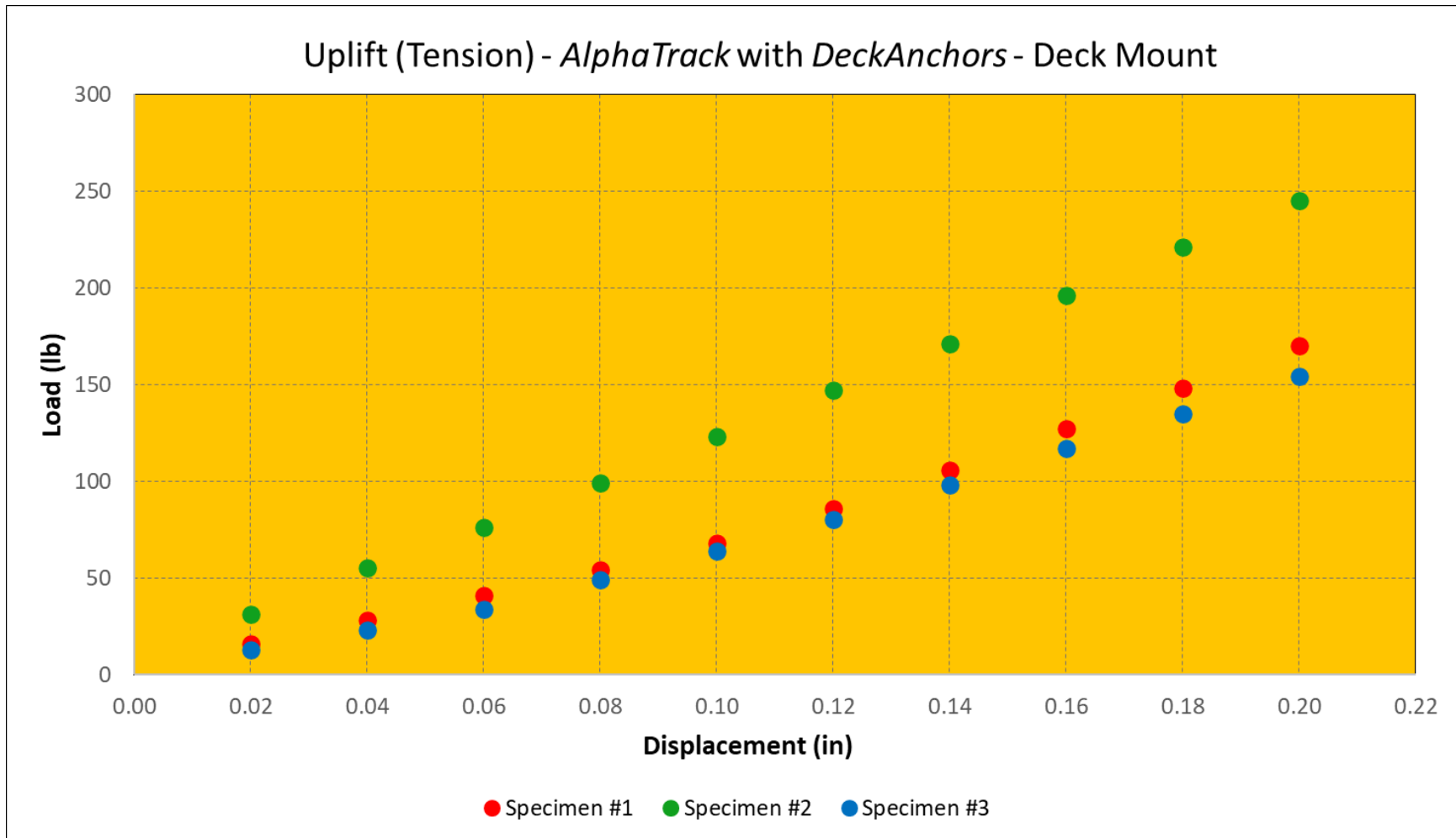
SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	608	-0.4%	91	<i>DeckAnchor screws withdrew from mock roof</i>
2	584	-4.4%	153	
3	640	+4.8%	85	
Average:	611	Average:	110	
		Standard Deviation:	38	
		Coefficient of Variation:	35%	

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

Test Date: 12/09/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	6	12	13
0.040	5	32	24
0.060	5	53	44
0.080	5	73	71
0.100	5	96	95
0.120	5	122	119
0.140	22	149	142
0.160	51	171	174
0.180	82	198	206
0.200	112	225	229
Ultimate Load:	1364	932	1407

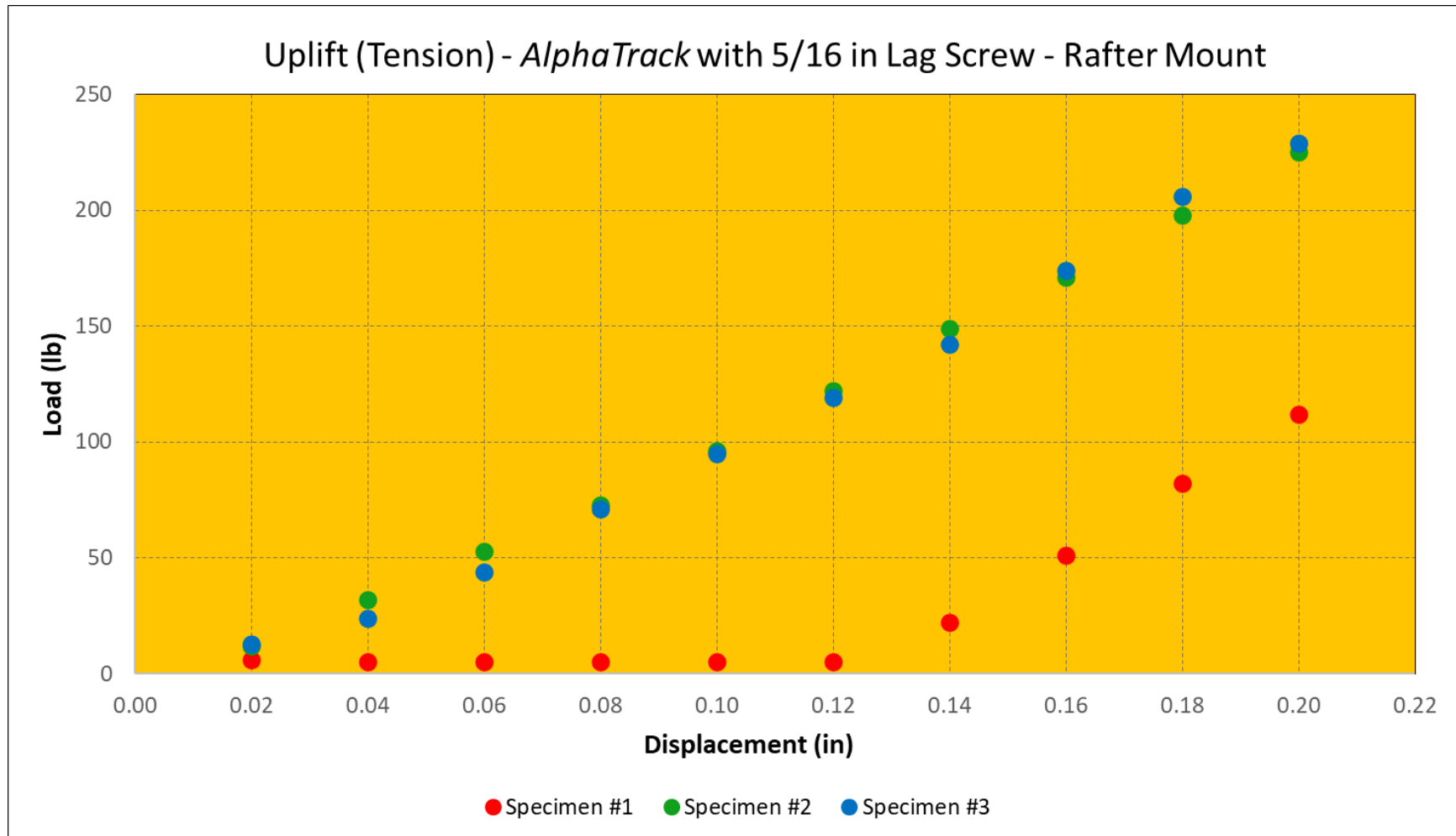
SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	1364	+10.5%	9	Lag screw withdrew from mock roof
2	932	-24.5%	129	
3	1407	+14.0%	125	
Average:	1234	Average:	88	
		Standard Deviation:	68	
		Coefficient of Variation:	77%	

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Shear Load Testing

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

AlphaTrack with Two, 1/2 in by 2-1/2 in DeckAnchors - Deck Mount (Shear Parallel to the Track)

Test Date: 12/20/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	75	123	176
0.040	144	207	360
0.060	211	300	580
0.080	296	477	752
0.100	419	655	911
0.120	554	821	1074
0.140	670	955	1193
0.160	771	1081	1306
0.180	883	1204	1408
0.200	1042	1297	1358
Ultimate Load:	1370	1497	1449

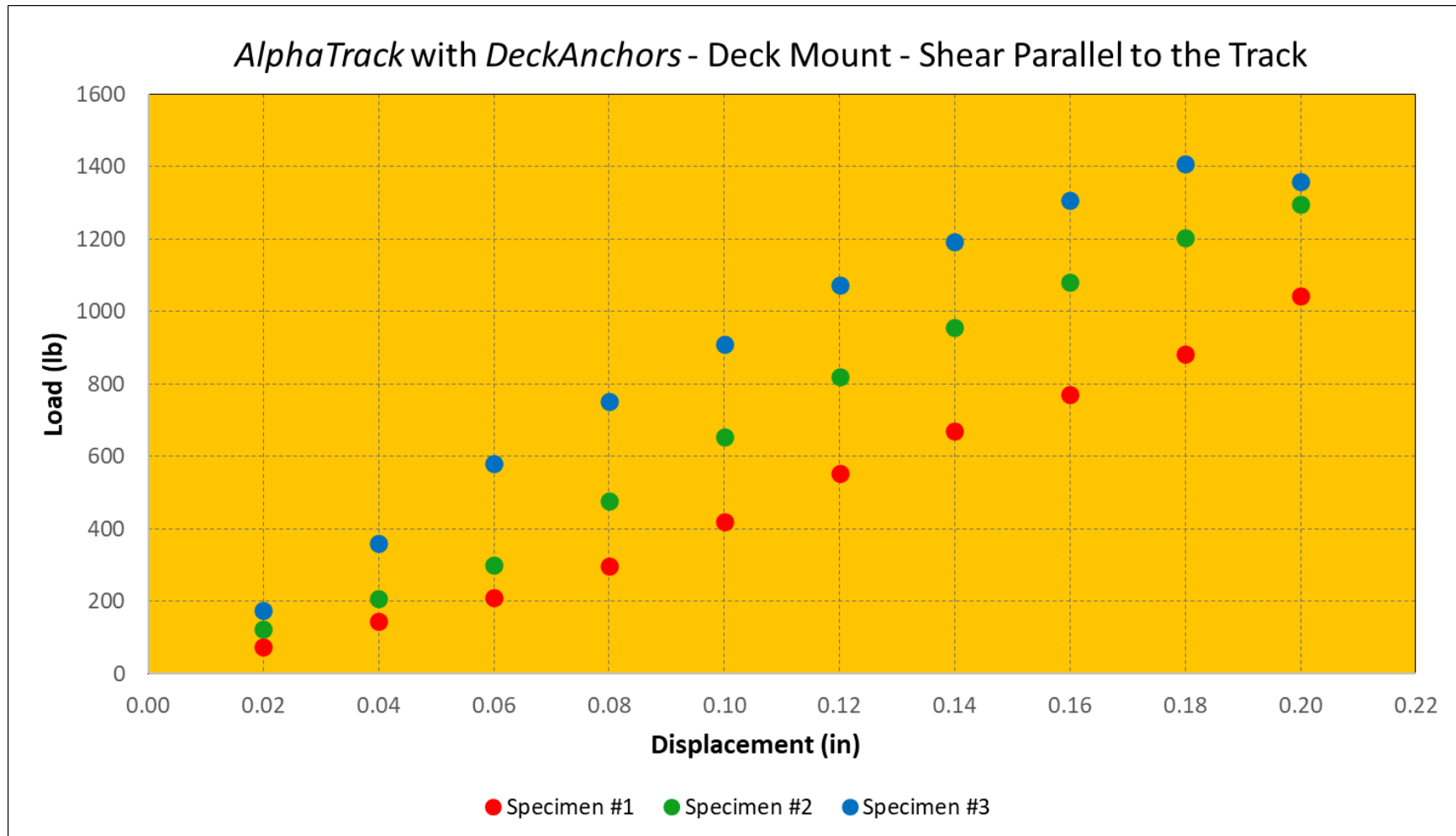
SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	1370	-4.8%	583	<i>DeckAnchor screws bent and pulled through mock roof</i>
2	1497	+4.1%	855	
3	1449	+0.7%	1104	
Average:	1439	Average:	847	
		Standard Deviation:	260	
		Coefficient of Variation:	31%	

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AlphaTrack with Two, 1/2 in by 2-1/2 in DeckAnchors - Deck Mount (Shear Perpendicular to the Track)

Test Date: 12/20/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	160	166	191
0.040	217	298	273
0.060	336	397	357
0.080	449	498	439
0.100	570	595	522
0.120	702	680	603
0.140	822	771	694
0.160	938	858	770
0.180	1038	914	838
0.200	1132	--	901
Ultimate Load:	1324	943	1243

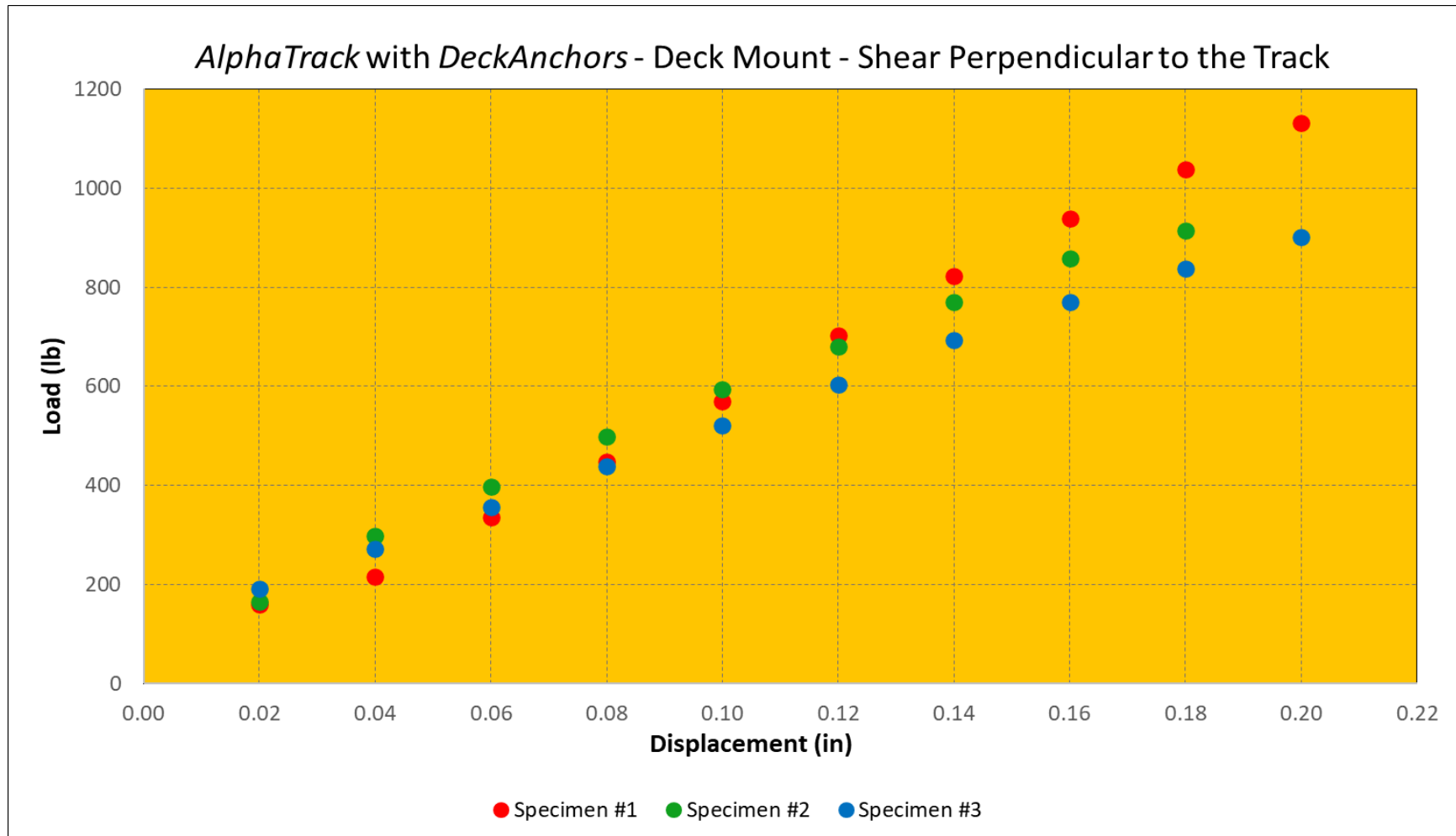
SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	1324	+13.2%	732	<i>DeckAnchor screws bent and pulled through mock roof</i>
2	943	-19.4%	703	
3	1243	+6.2%	626	
Average:	1170	Average:	687	
		Standard Deviation:	55	
		Coefficient of Variation:	8%	

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AlphaTrack with One, 5/16 in by 4-1/2 in Lag Screw - Rafter Mount (Shear Parallel to the Track)

Test Date: 12/19/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	300	270	30
0.040	465	407	276
0.060	974	507	509
0.080	1048	582	628
0.100	1112	647	703
0.120	1167	709	800
0.140	1211	780	870
0.160	1275	857	933
0.180	1338	921	996
0.200	1404	982	1056
Ultimate Load:	3037	3018	3182

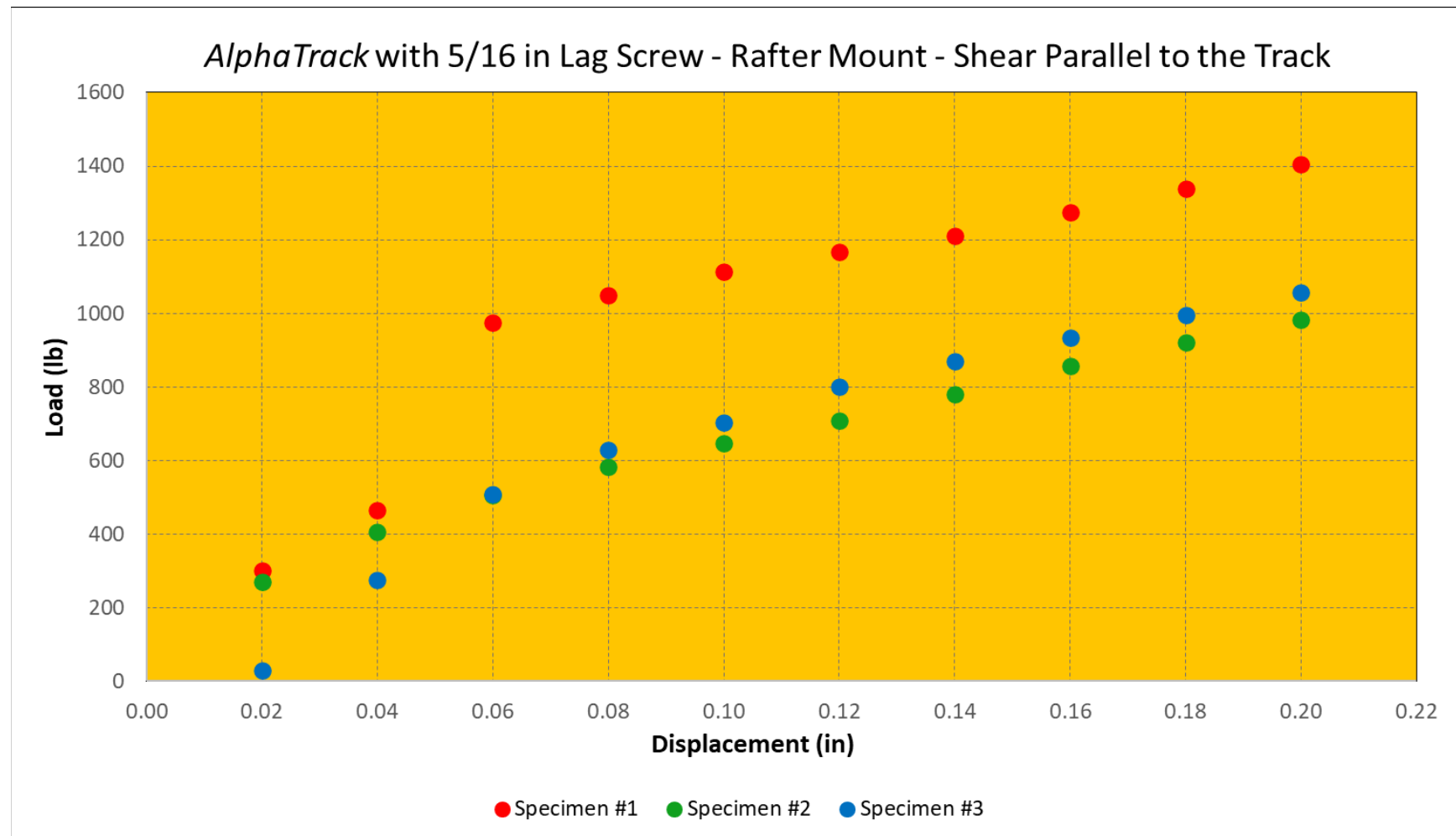
SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	3037	-1.4%	1178	Lag screws bent and pulled through mock roof
2	3018	-2.0%	727	
3	3182	+3.3%	818	
Average:	3079	Average:	907	
		Standard Deviation:	239	
		Coefficient of Variation:	26%	

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AlphaTrack with One, 5/16 in by 4-1/2 in Lag Screw - Rafter Mount (Shear Perpendicular to the Track)

Test Date: 12/19/24

BASE DISPLACEMENT RELATIVE TO MOCK ROOF (in)	SPECIMEN NO.		
	1	2	3
	LOAD (lbs)		
0.020	90	396	94
0.040	231	575	211
0.060	432	679	361
0.080	564	749	509
0.100	660	815	671
0.120	732	864	747
0.140	801	917	796
0.160	844	967	830
0.180	874	1015	855
0.200	909	1057	886
Ultimate Load:	1686	2651	1468

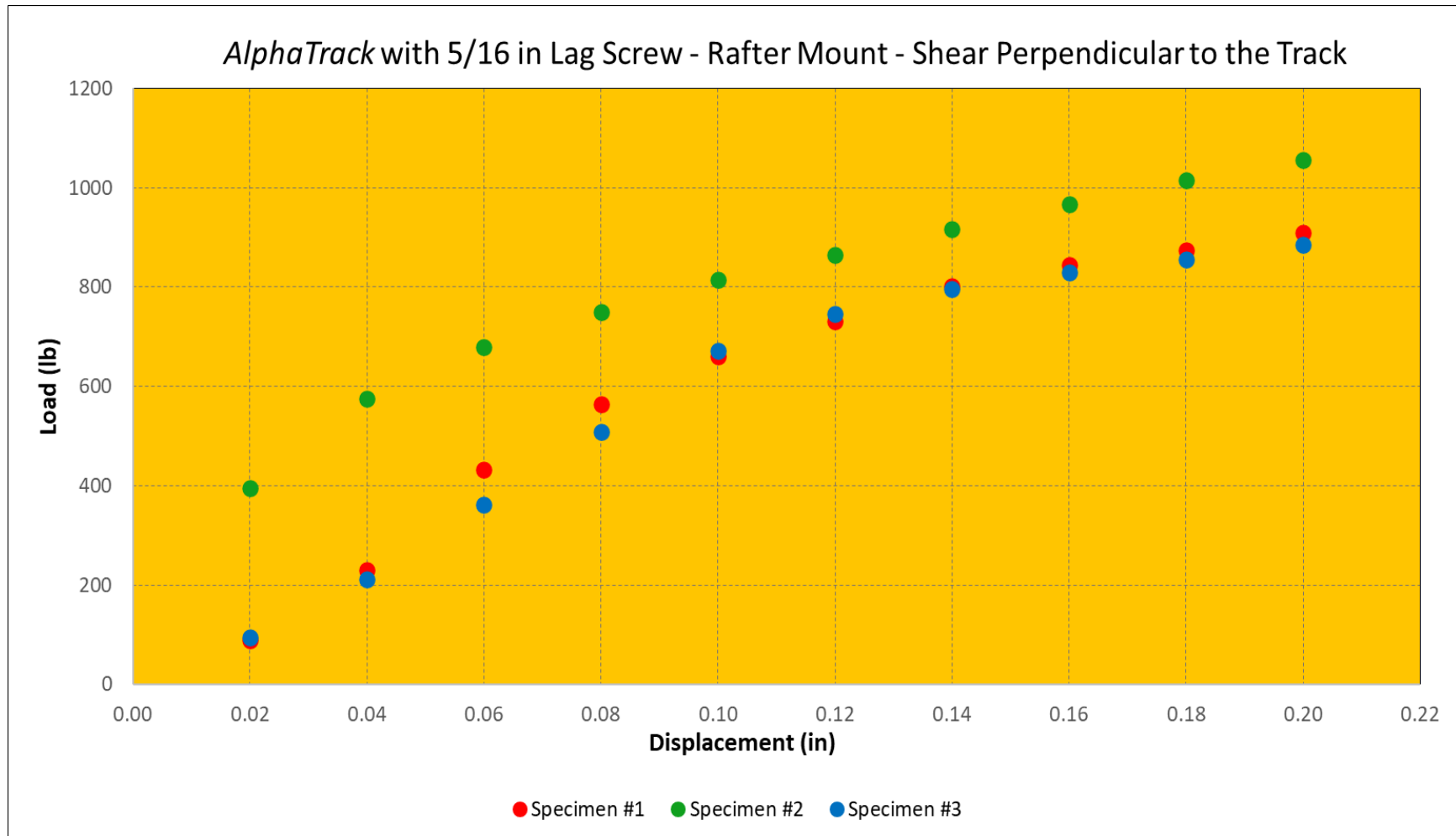
SPECIMEN NO.	ULTIMATE LOAD (lbf)	DEVIATION FROM AVERAGE	LOAD @ 1/8 in DISPLACEMENT (lb)	MODE OF FAILURE
1	1686	-12.9%	749	Lag screws bent and pulled through mock roof
2	2651	+37.0%	877	
3	1468	-24.1%	759	
Average:	1935	Average:	795	
		Standard Deviation:	71	
		Coefficient of Variation:	9%	

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SECTION 10 PHOTOGRAPHS

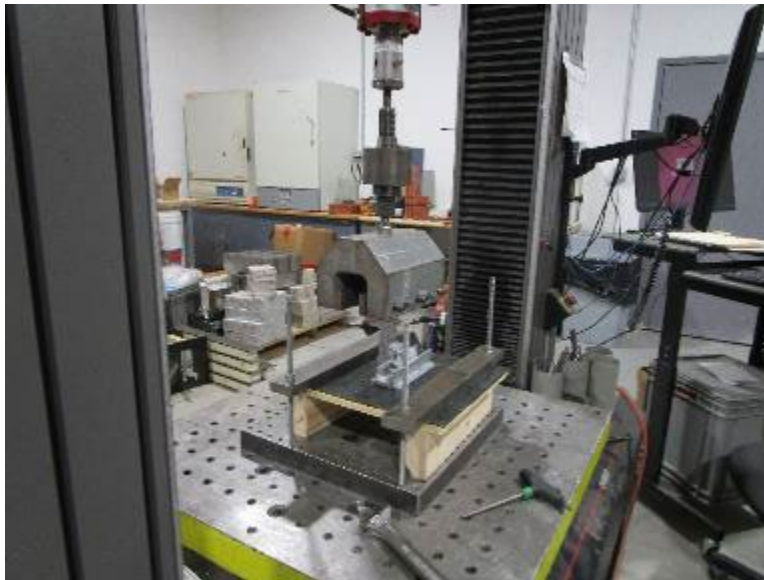


Photo No. 1
Uplift (Tension) Testing

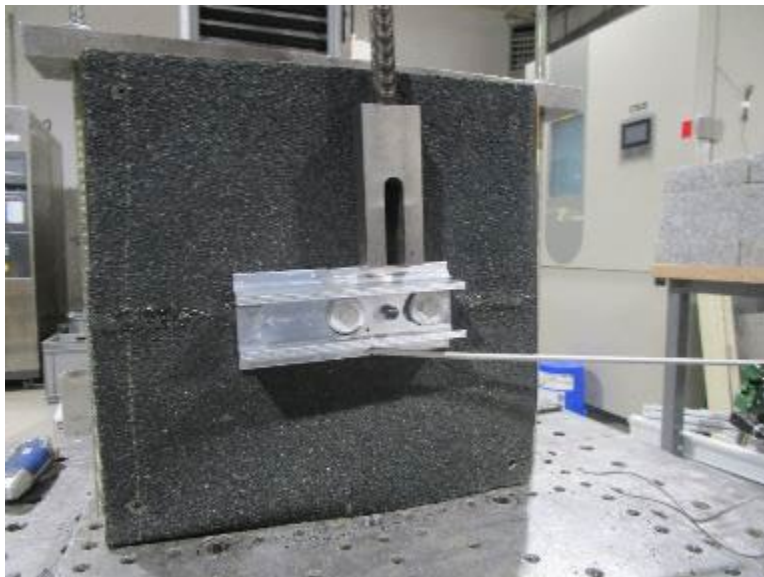


Photo No. 2
Shear Perpendicular to the Track

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Photo No. 3
Shear Parallel to the Track

SECTION 11 **DRAWINGS**

The "As-Built" drawings for the *AlphaTrack* mount with *DeckAnchors* and 5/16 in lag screws, 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.

NOTES:

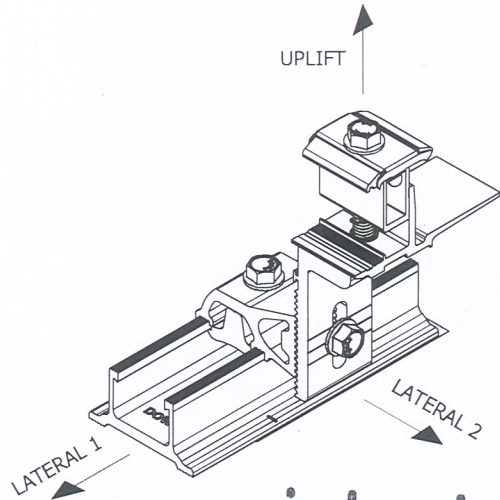
1. THIS SYSTEM COMPLIES WITH THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING HVHZ
2. THIS SYSTEM HAS BEEN TESTED TO THE TAS100(A) AND ASTM D7147 STANDARDS. IMPACT RESISTANCE IS NOT REQUIRED, AS IT IS NOT PART OF THE BUILDING ENVELOPE
3. INSTALLATIONS MUST FOLLOW THE SNAPRACK ULTRA RAIL SYSTEM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

ITEM	DESCRIPTION	MATERIAL	MIN YIELD (KSI)	MINIMUM ULTIMATE (KSI)
1	ALPHATRACK / DELTATRACK	ALUMINUM, 6000 SERIES	34	38
2	SPEEDSEAL+ FLASHING SYSTEM	BUTYL RUBBER	N/A	N/A
3	TOPSPEED UNIVERSAL, MOUNT BOTTOM	ALUMINUM, 6000 SERIES	34	38
4	TOPSPEED UNIVERSAL, LEVELER	ALUMINUM, 6000 SERIES	34	38
5	TOPSPEED UNIVERSAL, RISER	ALUMINUM, 6000 SERIES	34	38
6	BOLT, FLANGE, 5/16IN-18 X 3/4IN	STAINLESS STEEL, 300 SERIES	60	95
7	BOLT, FLANGE, 3/8IN-16 X 2-3/4IN	STAINLESS STEEL, 300 SERIES	60	95
8	DROP IN/ROCK IN CHANNEL NUT	ALUMINUM, 6000 SERIES	34	38
9	BOLT, FLANGE, 5/16IN-18 X 1IN	STAINLESS STEEL, 300 SERIES	60	3
10	TOPSPEED UNIVERSAL, MOUNT TOP	ALUMINUM, 6000 SERIES	34	38
11	TOPSPEED UNIVERSAL, BONDING CLIP	STAINLESS STEEL, 300 SERIES	N/A	N/A
12	TOPSPEED UNIVERSAL, MOUNT SPRING	STAINLESS STEEL, 300 SERIES	N/A	N/A

REVISION:

A	2/3/2025	RELEASED	MKW

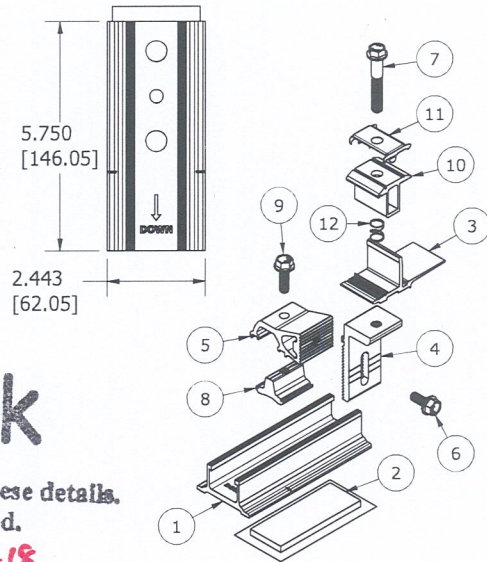


intertek

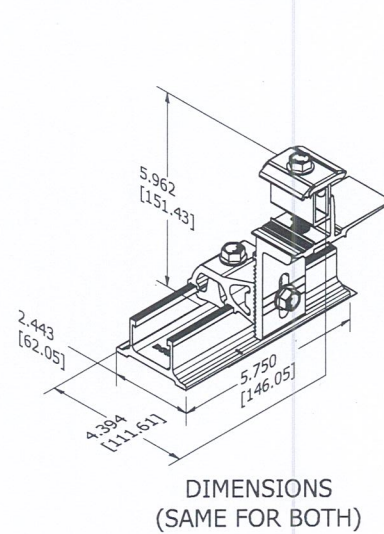
Test sample complies with these details.
Deviations are noted.

Report # S1175.02-119-18

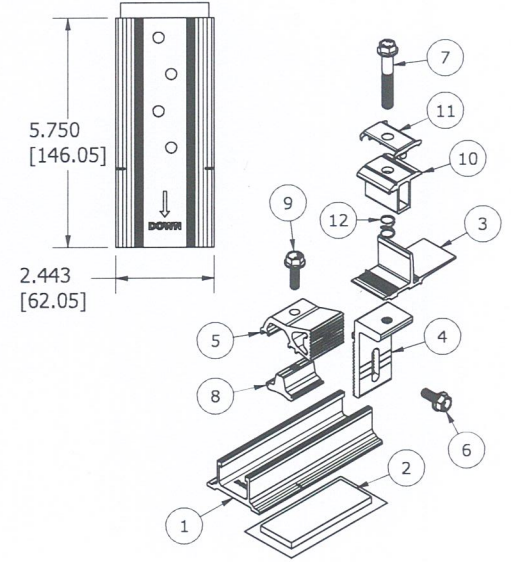
Date 2-5-25 Tech vtm



ALPHATRACK



DIMENSIONS (SAME FOR BOTH)



DELTATRACK

PE SIGNATURE:

PE DATE:

DESCRIPTION:

TOPSPEED UNIVERSAL PV MOUNTING SYSTEM WITH ALPHATRACK AND DELTATRACK ROOF ATTACHMENTS

DRAWING NUMBER:

SNR-DC-00486

REV:

A

SNR SOLAR LLC

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

UNITS:
IN, LB, DEG
[MM, KG, DEG]

DATE:
2/3/2025

SHEET SIZE:
11 IN X 17 IN

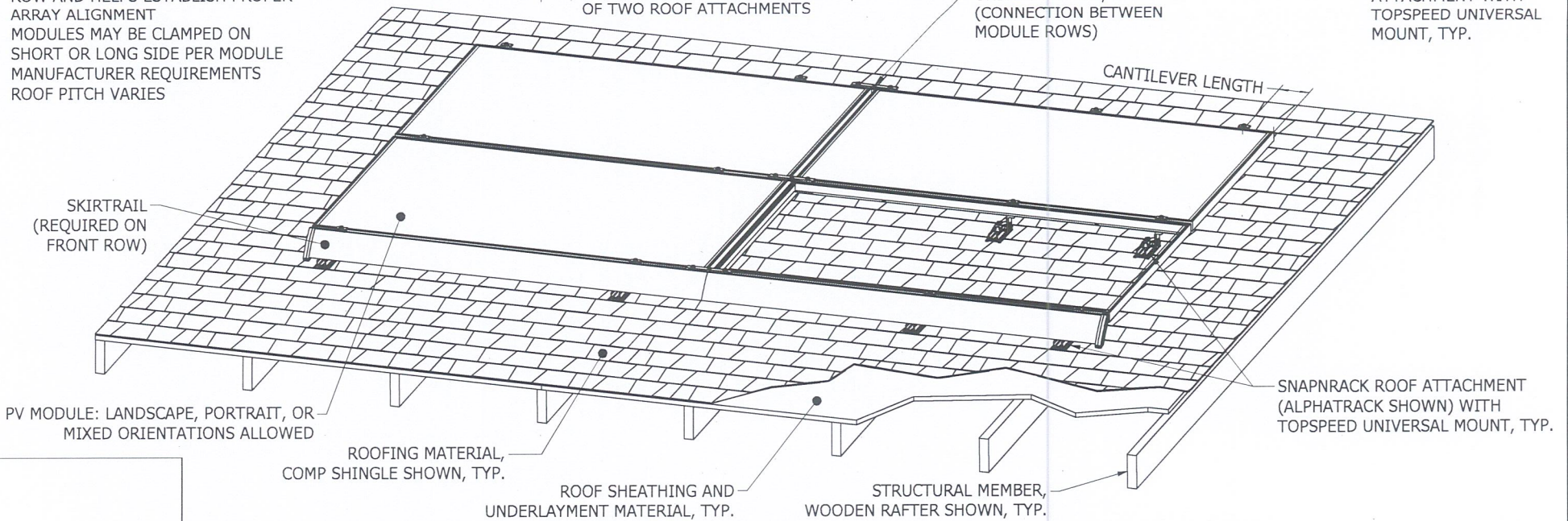
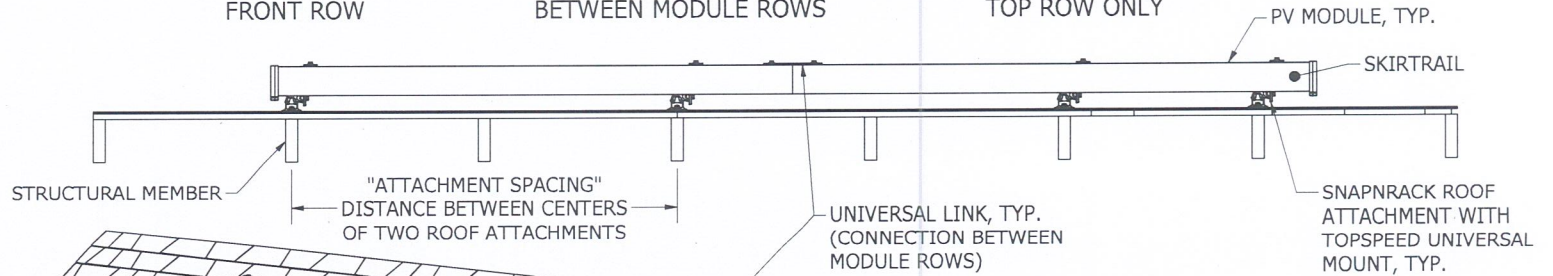
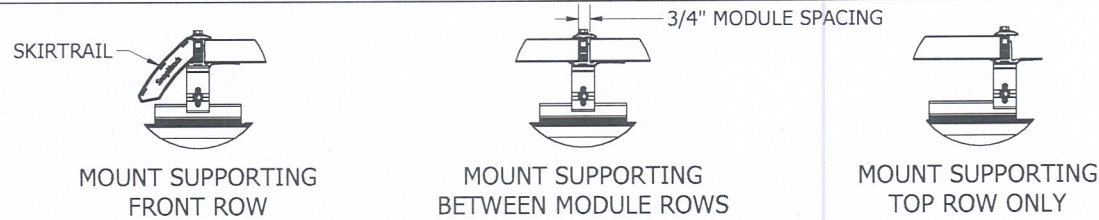
SCALE:
NTS

SHEET NUMBER:
1 OF 4

NOTES:

1. TOPSPEED UNIVERSAL MOUNT UTILIZES "CLAMP-SLEEVE" METHOD OF MODULE ATTACHMENT TO ALLOW A ROCK-IN INSTALLATION OF THE UPSLOPE MODULE
2. UNIVERSAL LINK PROVIDES CONNECTION BETWEEN MODULE ROWS AND ALSO UTILIZES "CLAMP-SLEEVE" METHOD OF MODULE ATTACHMENT
3. TOPSPEED UNIVERSAL MOUNTS AND UNIVERSAL LINKS SUPPORT MODULE HEIGHTS OF 30, 32, 35, 38, AND 40MM
4. SKIRTRAIL IS REQUIRED ON FRONT ROW AND HELPS ESTABLISH PROPER ARRAY ALIGNMENT
5. MODULES MAY BE CLAMPED ON SHORT OR LONG SIDE PER MODULE MANUFACTURER REQUIREMENTS
6. ROOF PITCH VARIES

REVISION:	A	2/3/2025	RELEASED	MKW



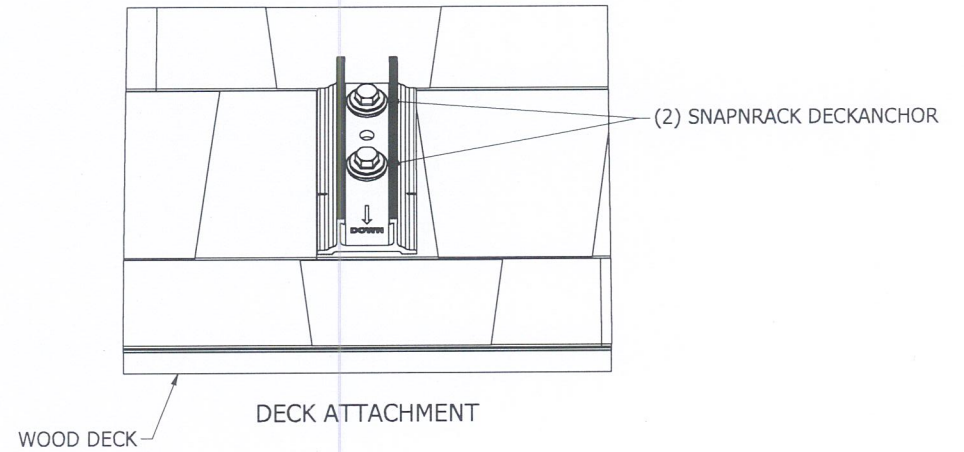
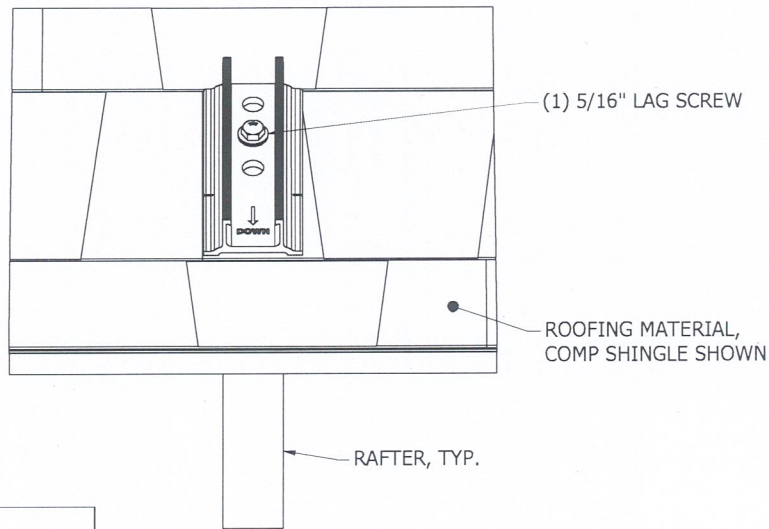
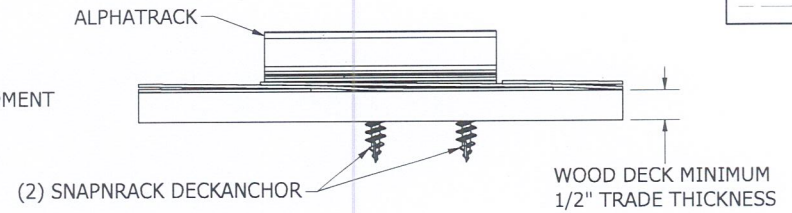
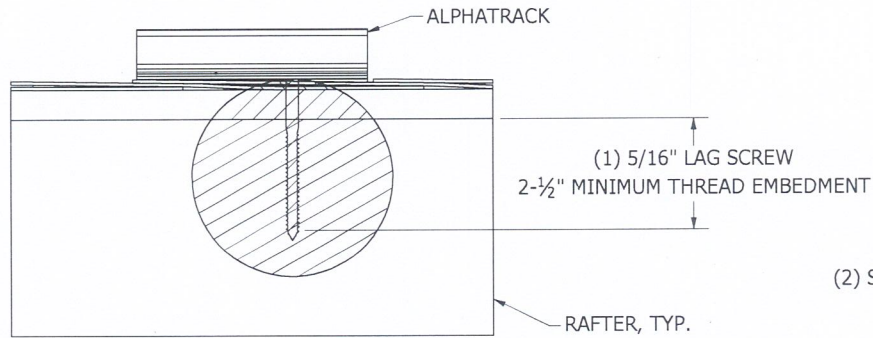
PE SIGNATURE:	PE DATE:	DESCRIPTION: TOPSPEED UNIVERSAL PV MOUNTING SYSTEM WITH ALPHATRACK AND DELTATRACK ROOF ATTACHMENTS	DRAWING NUMBER: SNR-DC-00486	REV: A
SNR SOLAR LLC		775 FIERO LANE, SUITE 200 SAN LUIS OBISPO, CA 93401 CONTACT@SNAPRACK.COM	SHEET SIZE: 11 IN X 17 IN	SCALE: 1" = 1'-0"
UNITS: IN, LB, DEG [MM, KG, DEG]	DATE: 2/3/2025			

Test sample complies with these details.
Deviations are noted.
Report # **S1175.02-119-18**
Date **2-5-25** Tech **ytm**

Test sample complies with these details.
Deviations are noted.

Report # SI175.02-119-18
Date 2-5-25 Tech vtm

REVISION:	A	2/3/2025	RELEASED	MKW



RAFTER ATTACHMENT

DECK ATTACHMENT

PE SIGNATURE:	PE DATE:	DESCRIPTION:	DRAWING NUMBER:		REV:
		TOPSPEED UNIVERSAL PV MOUNTING SYSTEM WITH ALPHATRACK AND DELTATRACK ROOF ATTACHMENTS	SNR-DC-00486		A
SNR SOLAR LLC		775 FIERO LANE, SUITE 200 SAN LUIS OBISPO, CA 93401 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: 3 OF 4	

DESCRIPTION:
SNAPRACK, ALPHATRACK

PART NUMBER(S):
242-10063

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

DOC NUMBER:
SNR-DC-01421

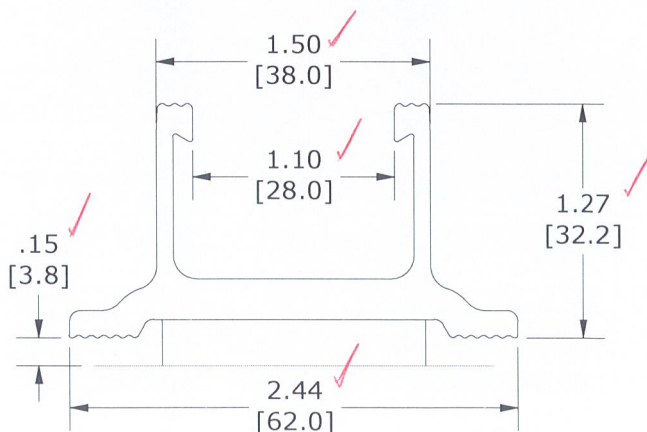
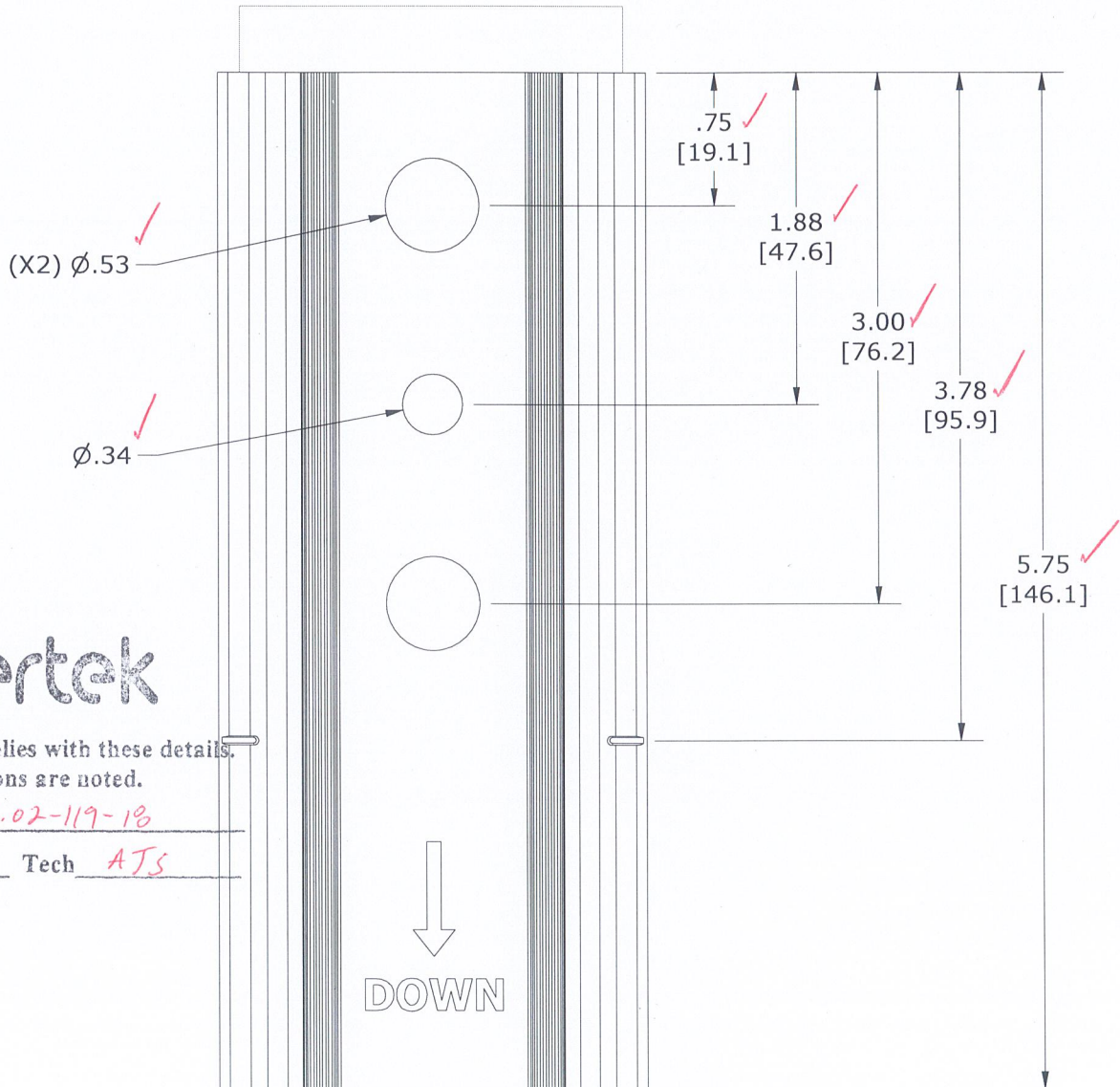
DRAWN BY:
M.WATKINS

REV: **A** DATE:
9/16/2024

SnapNrack®

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

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DESCRIPTION:
SNAPNRACK, ALPHATRACK

PART NUMBER(S):
242-10063

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

DOC NUMBER:
SNR-DC-01421

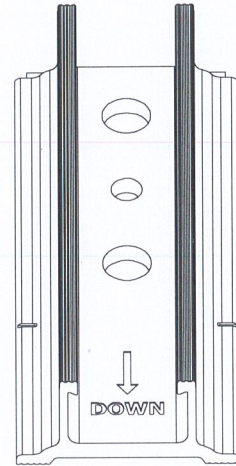
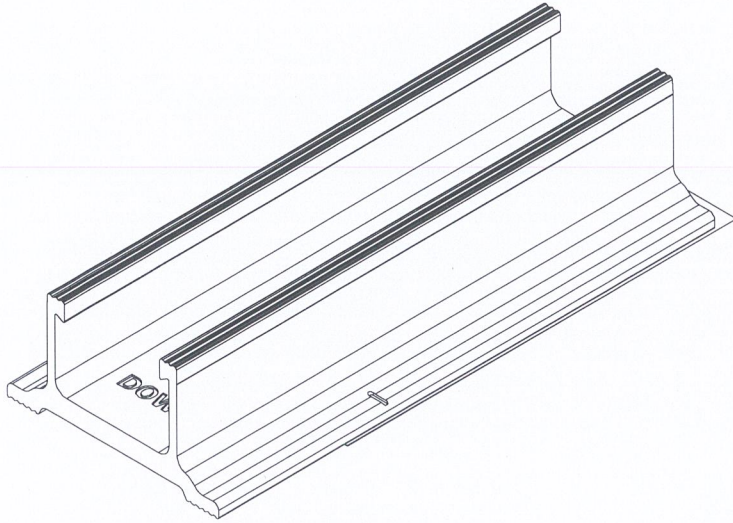
DRAWN BY:
M.WATKINS

REV: **A** DATE:
9/16/2024

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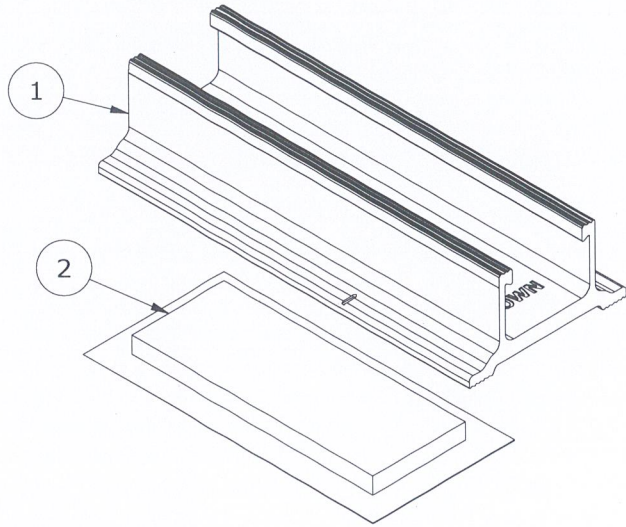
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intertek

Test sample complies with these details.
 Deviations are noted.

Report # 51175.02-119-18
 Date 1/15/25 Tech AJS



PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	SNAPNRACK, ALPHATRACK, MILL
2	1	SNAPNRACK, BUTYL PAD, 3.75IN X 1.50IN X .25IN

MATERIALS:	6000 SERIES ALUMINUM, BUTYL
DESIGN LOAD (LBS):	VARIABLES, REFER TO SNAPNRACK ENGINEERING
ULTIMATE LOAD (LBS):	VARIABLES, REFER TO SNAPNRACK ENGINEERING
TORQUE SPECIFICATION:	N/A FT-LBS
CERTIFICATION:	UL 2703, FILE E359313
WEIGHT (LBS):	0.43



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130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR SNR SOLAR LLC. DBA SNAPNRACK

Report No.: S1175.02-119-18 R1

Date: 01/21/25

Revised Date: 02/05/25

SECTION 12

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	01/21/25	N/A	Original Report Issue
1	02/05/25	21-25	Updated Drawing Package