# 16320

# BUTYL BOTTOM BLACK DECK MOUNT FOR ASPHALT, EPDM, & TPO ROOFS





A DIVISION OF QUICKSCREWS INTERNATIONAL CORP

# **TABLE OF CONTENTS**

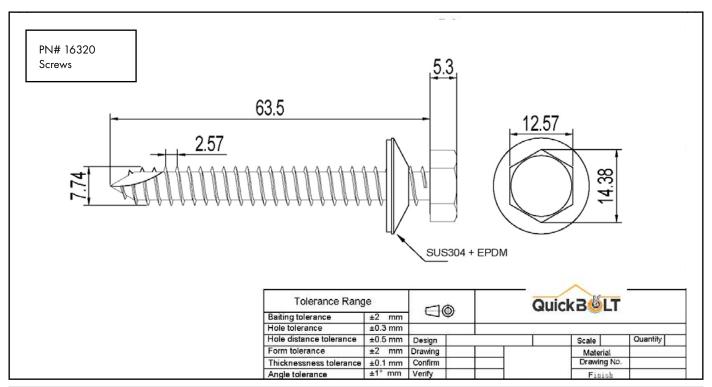
3	SPEC SHEET  QTY & MEASUREMENT INFORMATION
6	UL CERTIFICATION PROOF OF UL CERTIFICATION
8	INSTALLATION INSTRUCTIONS STEP-BY-STEP-INSTALLATION GUIDE
9	BUILDING CODE LETTER REGARDING STAMP DATES
10	ENGINEERING REPORT #1 LOAD TESTING - DIRECT TO DECK
18	ENGINEERING REPORT #2 LOAD TESTING - RAFTER MOUNTED
26	ENGINEERING REPORT #3 TAS 100(A)-95 WIND DRIVEN RAIN RESISTANCE
-	

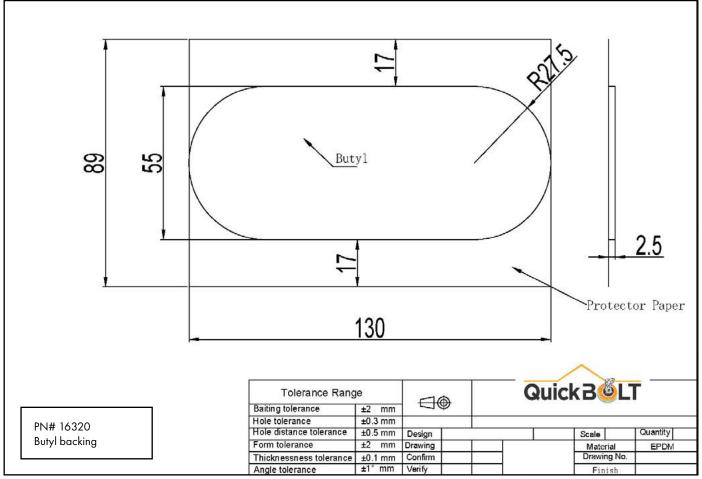
# **SPEC SHEET**

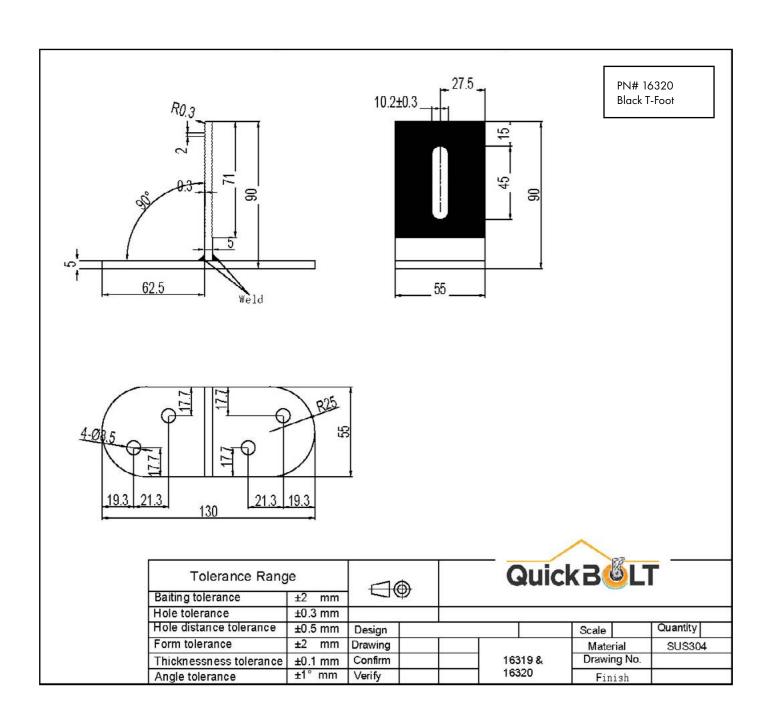
Part #	Box Quantity	
16320	36 Black Mounts + 144 Screws w/ EPDM Washers	











# **UL CERTIFICATION**

# CERTIFICATE OF COMPLIANCE

Certificate Number

E493748

Report Reference

E493748-20170817

Date

2023-April-07

Issued to:

QuickBOLT a Division of Quickscrews International Corp

5830 Las Positas Rd Livermore CA, 94551 US

This is to certify that representative samples of

MOUNTING SYSTEMS, MOUNTING DEVICES, CLAMPING

DEVICES AND GROUND LUGS FOR USE WITH

PHOTOVOLTAIC MODULES AND PANELS - COMPONENT

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to ULLIC.

investigation to UL LLC.

Standard(s) for Safety:

UL 2703, Mounting systems, mounting devices,

clamping/retention devices, and ground lugs for use with flat-

plate photovoltaic modules and panels-.

**Additional Information:** 

See the UL Online Certifications Directory at

https://iq.ulprospector.com for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

Jehrah Jennings Conner VP Regulatory Services

UL LLC

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# CERTIFICATE OF COMPLIANCE

Certificate Number E493748

Report Reference E493748-20170817

**Date** 2023-April-07

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

#### Models:

USR - Component, Roof Mounting Hook Units, Models 15891 15893 15987 16000 16317 16318 16319 16320 16988 16990 16991 16993 17508 17509 17510 17511 17512 17513 17514 17515 17516 17517 17518 17519 17520 17521 17522 17523 17524 17525 17526 17527 17536 17537 17538 17539 17540 17541 17542 17543 17544 17545 17546 17547 17548 17549 17550 17551 17552 17553 17554 17555 17556 17558 17559 17560 17566 17567 17568 17569 17570 17571 17572 17573 17574 17575 17576 17577 17578 17579 17580 17585 17586 17587 17588 17589 17592 17596 17597 17598 17599 17600 17601 17606 17607 17608 17609 17610 17611 17612 17613 17614 17615 17616 17617 17618 17620 17621 17622 17623 17624 17625 17626 17627 17628 17629 17630 17631 17632 17633 17636 17637 17638 17639 17640 17641 17642 17643 17646 17647 17648 17649 17650 17651 17652 17653 17654 17659 17664 17667 17669 17670 17671 17672 17673 17678 17679 17680 17681 17686 17687 17688 17689 17700 17701 17702 17703 17704 17705 17706 17707 17708 17709 17710 17711 17712 17717 17718 17750 17751 17752 17753 17759 15891-10 15891BLK-10 15987A 15987B 17667SS 17672SS 17680SS 17688SS 17713SS 17720 17721SS 17723 17724SS 17726 17727SS 17729 17730SS 15894SS 15891SS 15987BSS 17660 17661 17662 17663 17747 17748

Deborah Jennings-Conner, VP Regulatory Services

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UL LLC

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# **INSTALL INSTRUCTIONS**











# BUTYL BOTTOM DECK MOUNT (16320) RECOMMENDED MATERIALS

• 1/2" Nut Setter

# **INSTALLATION INSTRUCTIONS**

Install anywhere on roof. No need to locate rafters

- 1. Remove butyl tape from bottom of T-Foot
- 2. Place T-Foot on roof and press firmly into place
- 3. Insert first 5/16 X 2 1/2" Hex Lag into T-Foot and drive the screw until the w asher is compressed
- 4. Repeat with remaining screws
- Do not predrill
- \* To Drive Screws and Set Umbrella Washers Properly
  Torque PSI should not Exceed 57 Lbs/Inch

# **BUILDING CODE LETTER**



March 22<sup>nd</sup>, 2023

To whom this may concern,

QuickBOLT is committed to excellence. The parts tested are durable goods, meaning the material composition and detailed specifications of the parts do not change. Therefore, all stamps are current. Any part tested will have the same results no matter what year the tests are performed. All testing and reports are current and valid with 2022 CBC standards.

SolarRoofHook is the previous name of QuickBOLT. Any test result referencing SolarRoofHook is referring to a QuickBOLT product.

All our parts were tested by a third-party test facility, in possession of a current engineering license for the state where the tests were performed for the following.

- 1. Uplift test
- 2. Downward load test
- 3. Lateral Test Asphalt Mounts, and Metal Mounts only
- 4. ASTM E2440 and ASTM E330 Waterproof Tests QuickBOLT only

The following is an excerpt from:

CALIFORNIA BOARD FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS guide to Engineering & Land Surveying for City and County Officials
Page 12, Line 27

27. If the license has expired between the time the engineering documents were prepared and the time when the local agency's review is performed, do the documents need to be re-sealed by a licensee with a current license? (B&P Code §§ 6733, 6735.3, 6735.4)

As long as the license was current at the time the engineering documents were prepared, the documents do not need to be re-sealed prior to review by the local agency. However, any changes (updates or modifications) to the documents that are made following the review by the local agency would have to be prepared by a licensed engineer with a current license and those changes would have to be signed and sealed.

We trust the information provided will resolve any request for the test reports submitted to have a stamp from the current year.

Regards,

Rick Gentry Executive Vice President

# **ENGINEERING REPORT #1**

LOAD TESTING - DIRECT TO DECK



APPLIED MATERIALS & ENGINEERING, INC.

980 41st Street Oakland, CA 94608 Tel: (510) 420-8190 FAX: (510) 420-8186

e-mail: info@appmateng.com

Project No.: 1220938C

January 21, 2023

Mr. Rick Gentry
QUICKSCREWS INTERNATIONAL
5830 Las Positas Road

Livermore, CA 94551

Subject: Deck Mount Butyl Kit 36M-144S/CS (Part # 16319, 16320) Laboratory Load Testing

Dear Mr. Gentry:

As requested, Applied Materials & Engineering, Inc. (AME) has completed load-testing the Deck Mount Butyl Kit 36M-144S/CS (Part # 16319). The purpose of our testing was to evaluate the tensile and shear load capacity of the Deck Mount attached to 1/2" OSB using four (4) 5/16"Øx2-1/2" lag screws.

#### SAMPLE DESCRIPTION

Six Deck Mount Butyl Kits were delivered to our laboratory on January 18, 2022. Mockup configuration consisted of two 12" long rafters screwed to 1/2" OSB. The Deck Mount is attached through the OSB between the rafters with four 5/16"Øx2-1/2" lag screws.

### TEST PROCEDURES & RESULTS

#### 1. Tensile Load Test

A total of three tests were conducted for tensile (uplift) load capacity on January 20, 2023 using a United Universal testing machine. Samples were rigidly attached to the testing machine and a tensile load was applied to the hook. The samples were loaded in tension at a constant rate of axial deformation of 0.10 in. /min. without shock until failure occurred; displacement at maximum load was recorded. Based on the above testing, the average maximum tensile load and displacement of the Deck Mount Butyl Kit attached to 1/2" OSB using four 5/16"Øx2-1/2" lag screws was determined to be 843 lbf and 0.4 in., respectively. Detailed results are provided in Table I and tensile load vs. displacement curves are provided in Figure 1. Test setup and mode of failure are provided in Appendix A, Figure 3.

#### 2. Shear Load Test Parallel to Rafter

A total of three tests were conducted for shear load capacity parallel to the rafter on January 21, 2023 using a United Universal testing machine. Samples were rigidly attached to the testing machine and a tensile load was applied to the hook. The samples were loaded in compression at a constant rate of axial deformation of 0.10 in./min. without shock until failure occurred; displacement at maximum load was recorded. Based on the above testing, the average maximum tensile load and displacement of the Deck Mount Butyl Kit attached to 1/2" OSB using four 5/16"Øx2-1/2" lag screws was determined to be 1555 lbs and 0.9 in., respectively. Detailed results are provided in Table II and shear load vs. displacement curves are provided in Figure 2. Test setup and mode of failure are provided in Appendix A, Figure 4.

applied materials & engineering, inc.

Mr. Rick Gentry QUICKSCREWS INTERNATIONAL

Deck Mount Butyl Kit 36M-144S/CS (Part # 16319, 16320) Laboratory Load Testing January 21, 2023

No 35535

Page 2

Respectfully Submitted,

APPLIED MATERIALS & ENGINEERING, INC.

Reviewed by:

Armen Tajirian, Ph.D., P.E.

Principal

APPLIED MATERIALS & ENGINEERING, INC.

# TABLE I

# TENSILE (UPLIFT) LOAD TEST RESULTS

# DECK MOUNT BUTYL KIT 36M-144S/CS (Part # 16319, 16320)

# PROJECT NUMBER 1220938C

TEST NUMBER	MAXIMUM TENSILE LOAD (lbf)	DISPLACEMENT AT MAXIMUM LOAD (in.)	MODE OF FAILURE
8269	818	0.4	
8270	868	0.3	Lag Screw Pull-out
8271	843	0.5	
AVERAGE	843	0.4	

# TABLE II

# SHEAR LOAD TEST RESULTS

# DECK MOUNT BUTYL KIT 36M-144S/CS (Part # 16319, 16320)

# PROJECT NUMBER 1220938C

TEST NUMBER	MAXIMUM TENSILE LOAD (lbf)	DISPLACEMENT AT MAXIMUM LOAD (in.)	MODE OF FAILURE
8272	1751	1.1	
8273	1458	0.7	Lag Screw Pull-out
8274	1457	0.8	
AVERAGE	1555	0.9	

### TENSILE LOAD-DISPLACEMENT CURVES

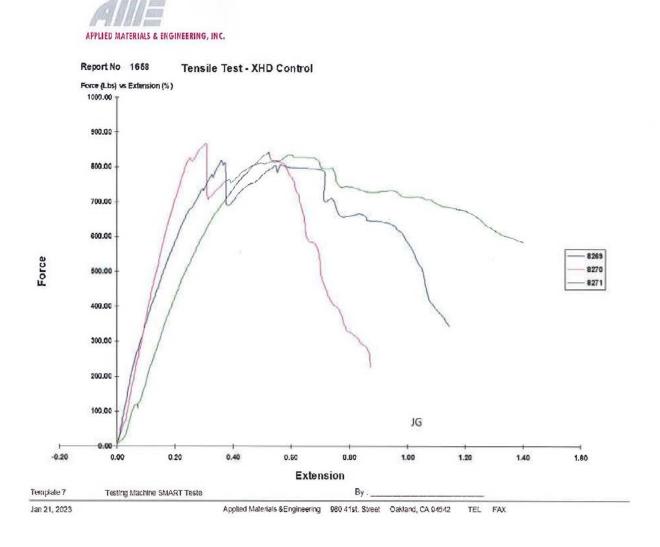


Figure 1. Test 8269, 8270, 8271 tensile load vs. displacement curve.

#### SHEAR LOAD-DISPLACEMENT CURVES

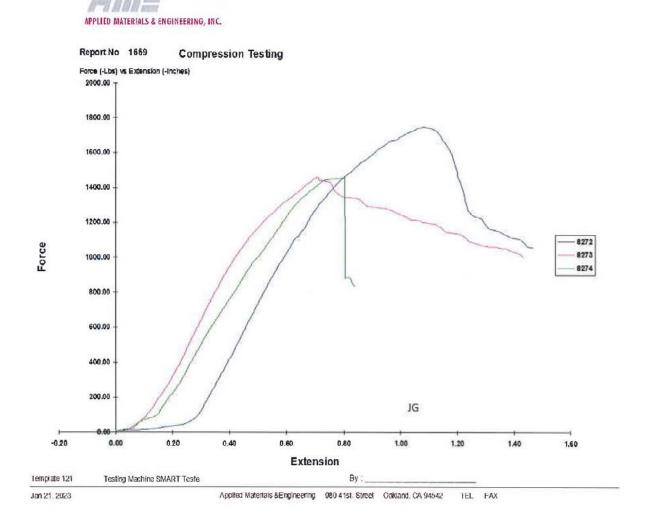


Figure 2. Test 8272, 8273, 8274 shear load vs. displacement curve.

# FIGURE 3

# DECK MOUNT BUTYL KIT 36M-144S/CS (Part # 16319, 16320)

# TENSILE (UPLIFT) LOAD TEST SETUP

# PROJECT NUMBER 1220938C



Figure 3a. Test setup.



Figure 3b. Typical failure mode.



Figure 3c. Lag screw view of typical failure.

# FIGURE 4

# DECK MOUNT BUTYL KIT 36M-144S/CS (Part # 16319, 16320)

# SHEAR LOAD TEST SETUP

# PROJECT NUMBER 1220938C



Figure 4a. Test setup.



Figure 4b. Mount failure mode.

# **ENGINEERING REPORT #2**

**LOAD TESTING - RAFTER MOUNTED** 



Oakland, CA 94608

Tel: (510) 420-8190 FAX: (510) 420-8186 e-mail: info@appmateng.com

January 4, 2023

Mr. Rick Gentry QUICKSCREWS INTERNATIONAL 5830 Las Positas Road Livermore, CA 94551

Project Number 1220938C

Subject:

Deck Mount Butyl Kit 36M-144S/CS (Part # 16319, 16320) Laboratory Load Testing

Dear Mr. Gentry:

As requested, Applied Materials & Engineering, Inc. (AME) has completed load-testing the Deck Mount Butyl Kit 36M-144S/CS (Part # 16319). The purpose of our testing was to evaluate the tensile and shear load capacity of the Deck Mount attached to a 2"x6" Douglas Fir rafter using four (4) 5/16"Øx2-1/2" lag screws.

### SAMPLE DESCRIPTION

Six Deck Mount Butyl Kits with 2"x6" Douglas Fir samples were delivered to our laboratory on December 9, 2022. Mockup configuration consisted of three 12" long rafters at 6.5"o.c., screwed to 1/2" Structural I plywood. The Deck Mount is attached through the plywood into a rafter with four 5/16"Øx2-1/2" lag screws.

#### TEST PROCEDURES & RESULTS

#### 1. Tensile Load Test

A total of three tests were conducted for tensile (uplift) load capacity on December 28, 2022 using a United Universal testing machine. Samples were rigidly attached to the testing machine and a tensile load was applied to the hook. The samples were loaded in tension at a constant rate of axial deformation of 0.10 in. /min. without shock until failure occurred; displacement at maximum load was recorded. Based on the above testing, the average maximum tensile load and displacement of the Dock Mount Butyl Kit attached to a 2"x6" Douglas Fir rafter using four 5/16"Øx2-1/2" lag screws was determined to be 3238 lbf and 0.4 in., respectively. Detailed results are provided in Table I and tensile load vs. displacement curves are provided in Figure 1. Test setup and mode of failure are provided in Appendix A, Figure 3.

The specific gravity and moisture content of the rafter was tested in accordance with ASTM D2395, Method A (oven-dry). The average specific gravity and moisture content were determined to be 0.493 and 16.3%, respectively.

Page 1 of 10

APPLIED MATERIALS & ENGINEERING, INC.

Mr. Rick Gentry

Quickscrews International

Deck Mount Butyl Kit 36M-144S/CS (Part # 16319, 16320) Laboratory Load Testing
January 4, 2023

### 3. Shear Load Test Parallel to Rafter

A total of three tests were conducted for shear load capacity parallel to the rafter on December 29, 2022 using a United Universal testing machine. Samples were rigidly attached to the testing machine and a tensile load was applied to the hook. The samples were loaded in compression at a constant rate of axial deformation of 0.10 in. /min. without shock until failure occurred; displacement at maximum load was recorded. Based on the above testing, the average maximum tensile load and displacement of the Deck Mount Butyl Kit attached to a 2"x6" Douglas Fir rafter using four 5/16"Øx2-1/2" lag screws was determined to be 5234 lbs and 2.1 in., respectively. Detailed results are provided in Table II and shear load vs. displacement curves are provided in Figure 2. Test setup and mode of failure are provided in Appendix A, Figure 4.

The specific gravity and moisture content of the rafter was tested in accordance with ASTM D2395, Method A (oven-dry). The average specific gravity and moisture content were determined to be 0.448 and 17.7%, respectively.

Respectfully Submitted,

APPLIED MATERIALS & ENGINEERING, INC.

Reviewed by:

Armen Tajirian, Ph.D., P.E. Principal

APPLIED MATERIALS & ENGINEERING, INC.

Page 2 of 10

# TABLE I

# TENSILE (UPLIFT) LOAD TEST RESULTS

# DECK MOUNT BUTYL KIT 36M-144S/CS (Part # 16319, 16320)

# PROJECT NUMBER 1220938C

TEST NUMBER	MAXIMUM TENSILE LOAD (lbf)	DISPLACEMENT AT MAXIMUM LOAD (in.)	MODE OF FAILURE	RAFTER SPECIFIC GRAVITY	RAFTER MOISTURE CONTENT (%)
8173	3613	0.4		0.508	15.4
8174	2949	0.4	Rafter Split	0.411	19.2
8175	3153	0.3		0.560	14.2
AVERAGE	3238	0.4		0.493	16.3

Page 3 of 10

APPLIED MATERIALS & ENGINEERING, INC.

# TENSILE LOAD-DISPLACEMENT CURVES

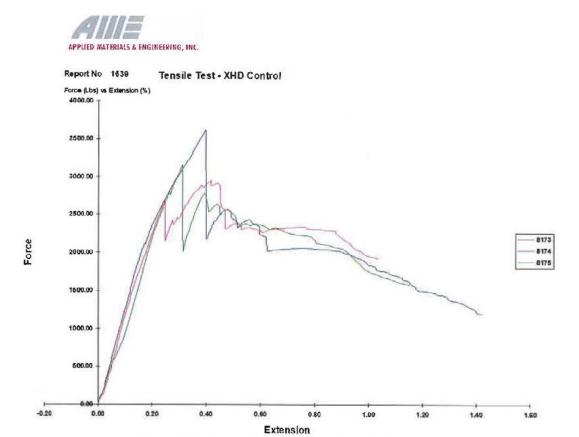


Figure 1. Test 8173, 8174, 8175 tensile load vs. displacement curve.

# TABLE II

# SHEAR LOAD TEST RESULTS

# DECK MOUNT BUTYL KIT 36M-144S/CS (Part # 16319, 16320)

# PROJECT NUMBER 1220938C

TEST NUMBER	MAXIMUM SHEAR LOAD (lbf)	DISPLACEMENT AT MAXIMUM LOAD (in.)	MODE OF FAILURE	RAFTER SPECIFIC GRAVITY	RAFTER MOISTURE CONTENT (%)
8176	7180	2.5	Bolt Shear	0.425	18.4
8177	4744	2.0	Mount Break	0.518	15.0
8178	3778	1.9	Mount Break	0.400	19.9
AVERAGE	5234	2.1		0.448	17.7

Page 5 of 10

APPLIED MATERIALS & ENGINEERING, INC.

### SHEAR LOAD-DISPLACEMENT CURVES



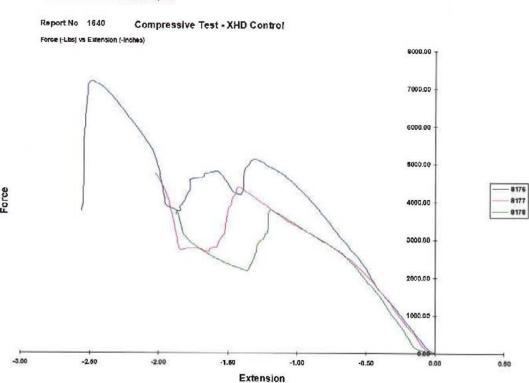


Figure 2. Test 8176, 8177, 8178 shear load vs. displacement curve.

# FIGURE 3

# DECK MOUNT BUTYL KIT 36M-144S/CS (Part # 16319, 16320)

# TENSILE (UPLIFT) LOAD TEST SETUP

# PROJECT NUMBER 1220938C



Figure 3a. Test setup.



Figure 3b. Typical failure mode.



Figure 3c. Rafter view of typical failure

Page 9 of 10

APPLIED MATERIALS & ENGINEERING, INC.

# FIGURE 4

# DECK MOUNT BUTYL KIT 36M-144S/CS (Part # 16319, 16320)

# SHEAR LOAD TEST SETUP

### PROJECT NUMBER 1220938C



Figure 4a. Test setup.



Figure 4b. Mount failure mode.



Figure 4c. Bolt failure mode.

Page 10 of 10

APPLIED MATERIALS & ENGINEERING, INC.

# **ENGINEERING REPORT #3**

TAS 100 (A)-95, WIND DRIVEN RAIN RESISTANCE



# QUICKSCREWS INTERNATIONAL CORPORATION MIAMI-DADE TEST REPORT

## **SCOPE OF WORK**

TAS 100(A)-95 TESTING ON THEIR QUICKBOLT, BUTYL BOTTOM DECK MOUNT (PN#16319/16320)

#### REPORT NUMBER

P9590.02-109-18

#### **TEST DATE(S)**

07/13/23

#### **ISSUE DATE**

08/07/23

#### MIAMI-DADE COUNTY NOTIFICATION NO.

ATI - 23006

#### LABORATORY CERTIFICATION NO.

22-0428.14

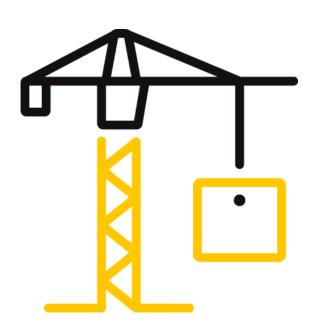
#### **PAGES**

16

#### DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-7808 (07/12/22)

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

#### TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORPORATION

Report No.: P9590.02-109-18

Date: 08/07/23

#### **REPORT ISSUED TO**

#### QUICKSCREWS INTERNATIONAL CORPORATION

5830 Las Positas Road Livermore, California 94551

#### **SECTION 1**

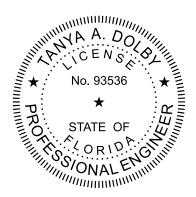
#### **SCOPE**

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Quickscrews International Corporation to perform TAS 100(A) testing in accordance with Miami-Dade County requirements on their Butyl Bottom Deck Mount (PN#16319/16320), solar mount. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

#### **SECTION 2**

#### **SUMMARY OF TEST RESULTS**

The specimen(s) tested met the performance requirements set forth in the protocols.



For INTERTEK B&C:

CES:bsm

COMPLETED BY: Christopher E. Sartalis
Technician —
Product Testing

SIGNATURE:

DATE: 08/07/23

REVIEWED BY:

TITLE:

SIGNATURE:
DATE:

Tanya A. Dolby, P.E. Engineering Manager – Engineering Services

Digitally Signed by: Tanya Dolby

08/07/23

2023.08.08 14:38:41 -04'00'

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Version: 07/12/22 Page 2 of 16 RT-R-AMER-Test-7808



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

#### TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORPORATION

Report No.: P9590.02-109-18

Date: 08/07/23

#### **SECTION 3**

### **TEST METHOD(S)**

The specimen was evaluated in accordance with the following:

**TAS 100 (A)-95**, Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge Area

#### **SECTION 4**

#### **MATERIAL SOURCE**

Test sample materials were provided by the client from Quickscrews International Corporation located in Livermore, California. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of ten years from the test completion date.

#### **SECTION 5**

#### **EQUIPMENT/CALIBRATION**

Vane Axial Fan: Y003346

Scale: 65571

Stopwatch: INT00974 Weather Station: 63317 Tape Measure Verifier: 63788

Windstream, water supply, and water distribution calibration were performed prior to testing. Reference Intertek B&C Calibration Report No. Q2311.02-109-18, dated 06/22/23, for descriptions and results.

#### **SECTION 6**

28

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Melchor C. George	Intertek B&C
Tanya A. Dolby, P.E.	Intertek B&C
Ken R. Stough	Intertek B&C
Christopher E. Sartalis	Intertek B&C



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

#### TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORPORATION

Report No.: P9590.02-109-18

Date: 08/07/23

#### **SECTION 7**

#### **TEST SPECIMEN DESCRIPTION**

Manufacturer: Quickscrews international Corporation

**Product Type**: Solar Mount

Series / Model: Butyl Bottom Deck Mount (PN#16319/16320),

**Roof Deck Description**: An 8' 0" wide by 6' 0" long roof deck on a 2:12 slope was utilized. The roof deck consisted of #2 Spruce-Pine-Fir nominal 2x6 intermediate supports sheathed with APA 32/16 span rated 15/32" plywood sheathing. The intermediate supports were spaced 24" on center. The plywood was secured to the rafters with 8d common nails spaced 6" on center around the perimeter and 12" on center at the intermediate supports. 30# felt paper underlayment was utilized over the sheathing. Architectural shingles were then installed on the roof deck.

**Solar Mount Description/Installation**: The mount was 2-1/4" wide by 5" long by 3-1/2" high. The mount was placed flat 18" down from the ridge in the center of a single tab. Four 2-1/2" lag screws with self-sealing washer were utilized through the base of the mount and butyl in the deck.

**Conditioning**: The test deck was conditioned in a chamber at a temperature of 135°F for a total of sixteen continuous hours.

Version: 07/12/22 Page 4 of 16 RT-R-AMER-Test-7808



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

#### TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORPORATION

Report No.: P9590.02-109-18

Date: 08/07/23

#### **SECTION 8**

#### **TEST RESULTS**

Protocol TAS 100(A)-95, Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge Area.

Test Date(s): 07/13/23

The temperature during testing was 27°C (81°F). The results are tabulated as follows:

**Test Procedure**: The wind speed intervals were conducted as follows:

Interval No.	Wind Speed (mph)	Time (min)	Water Spray
1	35	15	On
2	0	5	Off
3	70	15	On
4	0	5	Off
5	90	15	On
6	0	5	Off
7	110	5	On
8	0	5	Off

**Test Results**: The TAS 100(A) test results are as follows:

Wind Speed	Results
35 mph	0.0 oz.
70 mph	0.0 oz.
90 mph	0.0 oz.
110 mph	0.0 oz.

Allowable: 13.92 oz. Result(s): Pass

30

**Note 1**: Tested at a 2:12 roof pitch.



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

#### TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORPORATION

Report No.: P9590.02-109-18

Date: 08/07/23

#### **SECTION 9**

#### **CONCLUSION**

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.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule, also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

Version: 07/12/22 Page 6 of 16 RT-R-AMER-Test-7808



Total Quality. Assured.

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# **TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORPORATION**

Report No.: P9590.02-109-18

Date: 08/07/23

### **SECTION 10**

#### **PHOTOGRAPHS**



Photo No. 1
Top Side Before Testing



Photo No. 2 Underside Before Testing

Version: 07/12/22 Page 7 of 16 RT-R-AMER-Test-7808



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Photo No. 3 35 MPH Top Side



Photo No. 4 35 MPH Underside

Version: 07/12/22 Page 8 of 16 RT-R-AMER-Test-7808



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Photo No. 5 70 MPH Top Side



Photo No. 6 70 MPH Underside

Version: 07/12/22 Page 9 of 16 RT-R-AMER-Test-7808



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Photo No. 7 90 MPH Top side



Photo No. 8 90 MPH Underside



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Photo No. 9 110 MPH Top Side



Photo No. 10 110 MPH Underside

Version: 07/12/22 Page 11 of 16 RT-R-AMER-Test-7808



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Photo No. 11 Post Test Top Side



Photo No. 12 Post Test Underside

Version: 07/12/22 Page 12 of 16 RT-R-AMER-Test-7808