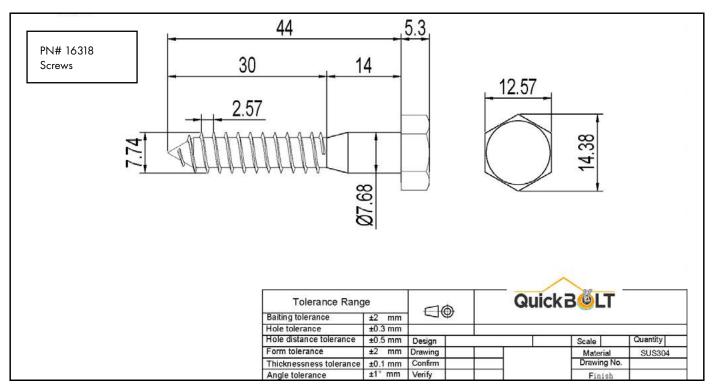
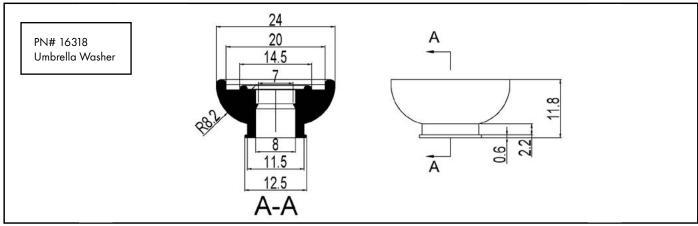
SPEC SHEET

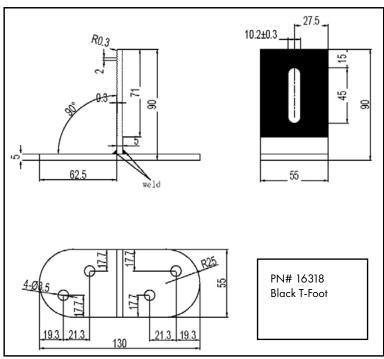
Part #	Box Quantity
16318	36 Black Mounts + 144 Screws w/Umbrella Washers

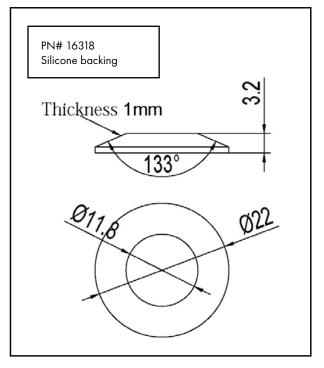












INSTALL INSTRUCTIONS













BLACK DECK MOUNT (16318)

RECOMMENDED MATERIALS

- MFG approved sealant
- 1/2" Nut Setter

INSTALLATION INSTRUCTIONS

- 1. Install anywhere on roof. No need to locate rafters
- 2. Place sealant around the bottom of the T-Foot
- 3. Place the T-Foot onto the roof
- 4. Insert first $5/16" \times 1-3/4"$ Hex Lags into T-Foot
- 5. Drive the screw until the Umbrella Washer is compressed
- 6. 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



February 26, 2019

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.

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, 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



QUICKSCREWS INTERNATIONAL CORP. TEST REPORT

SCOPE OF WORK

LOAD TESTING of Part# 16317 and 16318 Deck Mount Kit Stand

REPORT NUMBER

L2941.02-301-18- R0

TEST DATE

08/31/20

ISSUE DATE

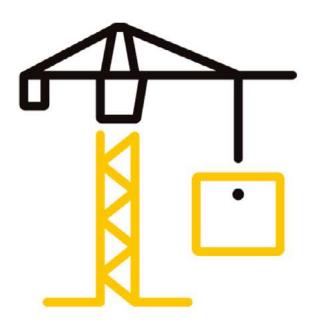
09/14/20

PAGES

11

DOCUMENT CONTROL NUMBER

GFT-OP-10c (AUGUST 27, 2018) © 2017 INTERTEK





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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.02-301-18-R0

Date: 09/14/20

REPORT ISSUED TO

QUICKBOLT - A DIVISION OF QUICKSCREWS INTERNATIONAL CORP.

5830 Las Positas Road Livermore, California 94551

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Quickscrews to perform additional load testing on their Part# 16317 and 16318 Deck Mount Kit Stand Testing was conducted at the Intertek B&C test facility in Fresno, California.

Intertek B&C in Fresno, California has demonstrated compliance with ISO/IEC International Standard 17025 and is consequently accredited as a Testing Laboratory (TL-264) 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 five 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.



2020.09.14 12:24:17 -07'00'

FOR INTERTEK B&C:
COMPLETED BY:
TITLE:
SIGNATURE:
DATE:

TW:ms

Dennis Janzen Technician

Dennis Ganzen
Digitally Signed by: Dennis Janzen
09/14/20

material, product, or service is or has ever been under an Intertek certification program.

SIGNATURE: DATE:

TITLE:

REVIEWED BY:

Tyler Westerling., P.E. Operations Manager

Digitally Signed by: Tyler Westerling

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Version: August 27, 2018 Page 2 of 11 GFT-OP-10c



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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.02-301-18- R0

Date: 09/14/20

SECTION 2

SUMMARY OF TEST RESULTS

SECTION 3

TEST METHODS

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

Limitations

Bracket systems to the supporting structure is not included in the scope of this testing and would need to be evaluated separately.

SECTION 4

MATERIAL SOURCE/INSTALLATION

All anchor components including wood posts used for the testing reported herein were supplied by Quickscrews and were not independently sampled or selected by a third-party inspection agency.

SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY	
Tyler Westerling	Intertek B&C	
Dennis Janzen	Intertek B&C	

Version: August 27, 2018 Page 3 of 11 GFT-OP-10c



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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.02-301-18-R0

Date: 09/14/20

SECTION 6

TEST PROCEDURE

Specimens were mounted to an Asphalt shingle covered 2x6 lumber frame with 5/8" plywood. Vertical load was applied to the bearing block through a load cell attached to the testing machine. Test speed was 0.200 in/min. Displacement was taken with one linear transducer, attached to the frame, which were zeroed at zero load. Ultimate load was the maximum load the test assembly could withstand in that direction without deflection exceeding 1/8". See photographs in Section 10 for typical test set-up.

SECTION 7

10

TEST SPECIMEN DESCRIPTION

COMPONENT	MATERIAL	DESCRIPTION
Deck Mount Kit Stand Part# 16317	Stainless Steel	Bracket (0.20" thick) Backed with 0.040" thick silicone
Mount Screw with Umbrella Washer	Stainless Steel	Stainless Steel Lag 5/16" diameter by 2" long with stainless steel and EPDM washer

Refer to photographs in Section 10 and drawings in Section 11 for additional details.



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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.02-301-18- R0

Date: 09/14/20

SECTION 8

TEST RESULTS

Connection Performance Testing (Direct Vertical Load - Shear - Perpendicular)

The purpose of this testing was to determine the direct load capacity of the L-foot in three direction in accordance with ASTM D7147.

Specimen No. 1-3

Pounds Load at 0.125" defle	ection			
Load Direction	Anchor #1	Anchor #2	Anchor #3	Average
Bending (weak direction)	201 lbs	192 lbs	196 lbs	196 lbs
Pullout	148 lbs	143 lbs	136 lbs	142 lbs
Shear	95lbs	103 lbs	110 lbs	103 lbs

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



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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.02-301-18- R0

Date: 09/14/20

SECTION 9

12

PHOTOGRAPHS

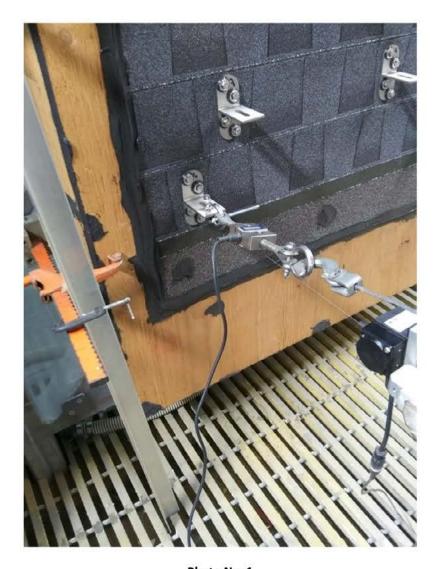


Photo No. 1 Pullout Test



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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

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Date: 09/14/20



Photo No. 2 Shear Test

Version: August 27, 2018 Page 7 of 11 GFT-OP-10c



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Report No.: L2941.02-301-18- R0

Date: 09/14/20

14



Photo No. 3 Bending Weak



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Date: 09/14/20



Photo No. 4 Deck Mount



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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.02-301-18-R0

Date: 09/14/20

16



Photo No. 5 Instrumentation

Version: August 27, 2018 Page 10 of 11 GFT-OP-10c



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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.02-301-18- R0

Date: 09/14/20

SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION	
0	09/14/20	N/A	Original Report Issue	

Version: August 27, 2018 Page 11 of 11 GFT-OP-10c

ENGINEERING REPORT #2



QUICKSCREWS INTERNATIONAL CORP. TEST REPORT

SCOPE OF WORK

TAS 100(A) TESTING on Part# 16317 and 16318 Deck Mount Kit Stand

REPORT NUMBER

L2941.01-301-18 R1

TEST DATE

08/31/20

ISSUE DATE

REVISION 1 DATE

09/14/20

09/14/20

RECORD RETENTION END DATE

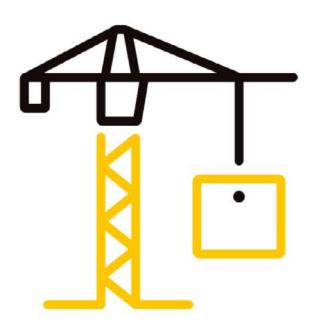
08/31/30

PAGES

8

DOCUMENT CONTROL NUMBER

ATI 00479 (07/24/17) RT-R-AMER-Test-2805 © 2017 INTERTEK





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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.01-301-18 R1

Date: 09/14/20

REPORT ISSUED TO

QUICKBOLT - A DIVISION OF QUICKSCREWS INTERNATIONAL CORP.

5830 Las Positas Road Livermore, California 94551

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Quickscrews Company to perform testing in accordance with TAS 100(A) - 95 testing on their Part# 16317 and 16318 Deck Mount Kit Stand. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at Intertek B&C test facility in Fresno, California.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

The specimens tested met the performance requirements set forth in the protocols.

Product Type: Solar Mounting Fastener

Series/Model: Part# 16317 and 16318 Deck Mount Kit Stand

SPEC.	TEST PROTOCOL	LEVEL
1	TAS 100(A) - 95	110 MPH



2020.09.14 14:12:39 -07'00'

For INTERTEK B&C: COMPLETED BY: Dennis Janzen Technician TITLE: SIGNATURE: 09/14/20 DATE:

REVIEWED BY: Tyler Westerling, P.E. **Operations Manager** TITLE: SIGNATURE: DATE:

TW:ms

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Version: 07/24/17 Page 2 of 8 RT-R-AMER-Test-2805



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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.01-301-18 R1

Date: 09/14/20

SECTION 3

TEST METHOD

The specimens were evaluated in accordance with the following:

Testing Application Standard (TAS) No. 100(A) - 1995, 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/INSTALLATION

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

The specimen was installed into an asphalt shingle test buck with lexan viewing window on the underside. Installation of the tested product was performed by Intertek B&C.

COMPONENT	MATERIAL	DESCRIPTION
Deck Mount Kit Stand Part# 16317	Stainless Steel	Bracket (0.20" thick) Backed with 0.040" thick silicone
Mount Screw with Umbrella Washer	Stainless Steel	Stainless Steel Lag 5/16" diameter by 2" long with stainless steel and EPDM washer

SECTION 5

EQUIPMENT

Calibrated Wind Generator - Reference calibration report I6737.03-801-44-r0 for calibration results.

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY	
Dennis Janzen	Intertek B&C	
Tyler Westerling	Intertek B&C	

Version: 07/24/17 Page 3 of 8 RT-R-AMER-Test-2805



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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.01-301-18 R1

Date: 09/14/20

SECTION 7

TEST RESULTS

Protocol TAS 100(A) - 95, Wind Driven Rain Resistance

Test Date: 08/31/20

The temperature during testing was 35°C (95°F). The results are tabulated as follows:

Test Specimen test results:

Wind Speed	Gallons Sprayed	Inches Per Hour	Gallons Collected	Notes
35	77.02	10.30	0	15 Minutes
70	75.11	10.04	0	15 Minutes
90	79.89	10.68	0	15 Minutes
110	27.88	10.08	0	5 Minutes
Total	259.9	11.18	0	
1% of total water sprayed	2.59 Gallons		0 Gallons Collected	Pass

General Note: All testing was performed in accordance with the referenced standard.

SECTION 8

CONCLUSIONS

Intertek B&C observed no signs of failure in any area of the test specimens during the test; as such, the test specimens satisfy the requirements of TAS 100(A) - 95.

Version: 07/24/17 Page 4 of 8 RT-R-AMER-Test-2805



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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.01-301-18 R1

Date: 09/14/20

SECTION 9

PHOTOGRAPHS

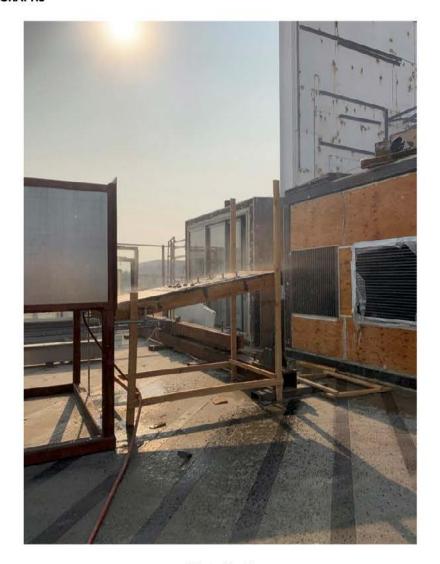


Photo No. 1

Version: 07/24/17 Page 5 of 8 RT-R-AMER-Test-2805



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Report No.: L2941.01-301-18 R1

Date: 09/14/20



Photo No. 2

Version: 07/24/17 Page 6 of 8 RT-R-AMER-Test-2805



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Report No.: L2941.01-301-18 R1

Date: 09/14/20

24



Photo No. 3



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TEST REPORT FOR QUICKSCREWS INTERNATIONAL CORP.

Report No.: L2941.01-301-18 R1

Date: 09/14/20

SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION	
0	09/14/20	N/A	Original Report Issue.	
1	09/14/20	4	Correction of Test Date.	

Version: 07/24/17 Page 8 of 8 RT-R-AMER-Test-2805

UL CERTIFICATION

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference 20191115-E493748 E493748-20170817 2019-NOVEMBER-15

Issued to:

Issue Date

QUICKBOLT A DIVISION OF QUICKSCREWS

INTERNATIONAL CORP 5830 Las Positas Rd Livermore, CA 94551

This is to certify that representative samples of COMPONENT - MOUNTING SYSTEMS, MOUNTING DEVICES, CLAMPING DEVICES AND GROUND LUGS FOR USE WITH

PHOTOVOLTAIC MODULES AND PANELS (See Adendum for Additional Information.)

Have been investigated 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 UL LLC.

Standard(s) for Safety: UL 2703 Standard for 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

www.ul.com/database for additional information

This Certificate of Compliance does not provide authorization to apply the UL Recognized Component 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.

Bambles

Bruce Mahrenholz, Director North American Certification Program

OF FFC

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Page 1 of 2

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date 20191115-E493748 E493748-20170817 2019-NOVEMBER-15

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

Addendum -

Models/Product

USR - Component, Roof Mounting Hook Units, Models 15891 15893 15987 16000 16317 16318 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 17568 17569 17570 17571 17572 17573 17574 17575 17576 17577 17578 17579 17580 17585 17586 17587 17588 17589 17592 17596 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 17642 17643 17646 17647 17648 17649 17650 17651 17659 17664 17667 17609 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 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

Ratings: Overcurrent Protection Rating - 25 Amps

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Bruce Mahrenholz, Director North American Certification Program

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