17627, 17628, 17629, 17630, 17631

STONE COATED STEEL ROOF HOOK FOR SIDE MOUNT RAILS





A DIVISION OF QUICKSCREWS INTERNATIONAL CORP

TABLE OF CONTENTS

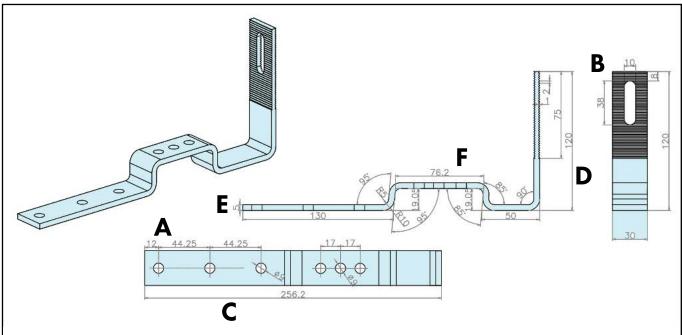
3	SPEC SHEET QTY & MEASUREMENT INFORMATION
4	UL CERTIFICATION PROOF OF UL CERTIFICATION
6	INSTALLATION INSTRUCTIONS STEP-BY-STEP-INSTALLATION GUIDE
7	BUILDING CODE LETTER REGARDING STAMP DATES
8	TEST RESULTS SUCH AS: WATER, UPLIFT, COMPRESSION, ETC.
11	COMPATIBILITY LETTER FOR WESTLAKE / UNIFIED STEELTM

SPEC SHEET

Part #	Box Quantity	Screw Size
17626	20 Hooks	N/A
17627	1 Hook	N/A
17628	20 Hooks; 40 Screws	#14 x 3"
17629	1 Hook; 2 Screws	#14 x 3"
17630	20 Hooks; 40 Screws	5/16" x 3"
17631	1 Hook; 2 Screws	5/16" x 3"







Baiting tolerance	± 2 mm	Waterial:	SS304	
Hole tolerance	± 0.5 mm	material:	55504	
Hole distance tolerance	± 0.5 mm	Deter	2016. 06. 10	
Form tolerance	± 2 mm	Date:		
Thicknessness tolerance ± 0.1 mm		0.1 D 01.1		
Angle tolerance	± 1° mm	SolarRoofHool		

Letter	Description	Size/Length	
Α	Mounting Screw Holes	9mm	
В	Rail Slot Size	10mm x 38mm	
С	Length of Roof Hook	256.2mm	
D	Bottom End to Top End	120mm	
Е	Thickness	5mm	
F	Batten Bridge	76.2mm	
	0		

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.

Debrah Jenning Cane

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/



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

Jetrah enning lane

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at https://ul.com/aboutul/locations/



INSTALL INSTRUCTIONS













RECOMMENDED MATERIALS

- Rafter locater
- Chalk or crayon
- 3/16" Drill Bit
- Sealant

INSTALLATION INSTRUCTIONS

- Remove the Stone Coated Steel Sheets from the area in which you will be installing.
- 2. Locate and mark the rafters.
- 3. Place the Hook and predrill two holes with the 3/16" Drill Bit.
- 4. Remove the Hook, clear the debris, and fill the predrilled holes with sealant.
- 5. Place and mount the Hook using the Solar Screws.
- 6. PLace the Stone Coated Steel Sheets back over the installation area.

ADJUSTABLE HOOKS

Adjust the Hook as need be either before or after mounting the Hook.

IF USING GALVA FLASHING

- 1. Make a cut in the paper
- 2. Apply sealant to the underside of the Galva Flashing
- 3. Slide the Flashing underneath the paper or nail down edges
- 4. Cover the edges of the Galva Flashing with sealant



BUILDING CODE LETTER



March 22nd, 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



Oakland, CA 94608

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

Tel: (510) 420-8190

November 16, 2016

Mr. Rick Gentry **Solar Roof Hook** 5830 Las Positas Road Livermore, CA 94551

Project Number 1160925C

Subject:

90° Non-Adjustable Stone Coated Steel Roof Hook

(Part #17626, 17628, 17629, 17630, 17631) Laboratory Load Testing

Dear Mr. Gentry:

As requested, Applied Materials & Engineering, Inc. (AME) has completed load-testing the 90° Non-Adjustable Stone Coated Steel Roof Hook; see Appendix A, Figure 1. The purpose of our testing was to evaluate the tensile (uplift) load capacity of the 90° Non-Adjustable Stone Coated Steel Roof Hook attached to a 2"x4" Douglas Fir rafter using two #14 x 3" Hex Washer Head S/S Mounting Screws (Sold as Part# 17556 or 17558).

SAMPLE DESCRIPTION

Mockup samples were delivered to our laboratory on October 25, 2016. Mockup configuration consisted of three 12" long rafters at 6.5"o.c., screwed to 1/2" Structural I plywood. The 90° Non-Adjustable Stone Coated Steel Roof Hook is attached through the plywood into a rafter with two fasteners.

TEST PROCEDURES & RESULTS

A total of three tests were conducted for tensile (uplift) load capacity on November 10, 2016 using a United Universal testing machine. Samples were rigidly attached to the testing machine and an uplift (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 uplift load of the 90° Non-Adjustable Stone Coated Steel Roof Hook attached to a 2"x4" Douglas Fir rafter using two #14 x 3" lag screws was determined to be 1,243 lbf. Detailed results are provided in Table I. Test setup and mode of failure are provided in Appendix B, Figure 1.

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 0.384 and 9.5%, respectively.

Page 1 of 8

APPLIED MATERIALS & ENGINEERING, INC.

Mr. Rick Gentry SolarRoofHook Project Number 1160925C

Reviewed by:

Principal

Armen Tajirjan, Ph.D., P.E.

90° Non-Adjustable Stone Coated Steel Roof Hook (Part #17626, #17627, #17628, #17629, #17630, #17631) Laboratory Load Testing November 16, 2016

Respectfully Submitted,

APPLIED MATERIALS & ENGINEERING, INC.

Joseph Gapuz

Laboratory Manager

APPLIED MATERIALS & ENGINEERING, INC.

TABLE I

TENSILE (UPLIFT) LOAD TEST RESULTS

90° NON-ADJUSTABLE STONE COATED STEEL ROOF HOOK (PART #17626, #17627, #17628, #17629, #17630, #17631)

PROJECT NUMBER 1160925C

TEST NUMBER	MAXIMUM TENSILE LOAD (lbf)	DISPLACEMENT AT MAXIMUM LOAD (in.)	MODE OF FAILURE	RAFTER SPECIFIC GRAVITY	RAFTER MOISTURE CONTENT (%)
990	1108	5.2	Lag Screw Pull-out	0.375	9.6
991	1193	5.4		0.395	9.5
993	1427	5.2		0.382	9.4
AVERAGE	1243	5.3	••	0.384	9.5

APPLIED MATERIALS & ENGINEERING, INC.

COMPATIBILITY LETTER



2801 Post Oak, Suite 600 Houston, TX 77056

T. 800.669.8453 WestlakeRoyalRoofing.com

August 17, 2022

To Our Valued Customers:

In regard to the Solar Roof Hooks that are manufactured by QuickBOLT, the product was developed and manufactured to meet the design needs and compatibility with our *Unified Steel™ stone coated roofing system and as such, should be deemed to be fully useable in the designated fashion prescribed by Unified Steel™, Westlake Royal Roofing Solutions and QuickBOLT.

Sincerely,

Rob Anderson

Robin Anderson Technical & Strategy Development Manager

*Compatible with the following Unified Steel™ panel profiles – PINE-CREST Shake, COTTAGE Shingle, PACIFIC Tile & BARREL-VAULT Tile







