

QUICKBOLT – A DIVISION OF QUICKSCREWS INTERNATIONAL CORPORATION TEST REPORT

SCOPE OF WORK

WATER TESING 3" AND 4" MICROFLASHING -TPO TEST

REPORT NUMBER

J2795.01-301-32

TEST DATES

01/11/19 – 01/18/19

ISSUE DATE REVISION 2 DATE

02/01/19 03/12/19

RECORD RETENTION END DATE

01/18/24

PAGES

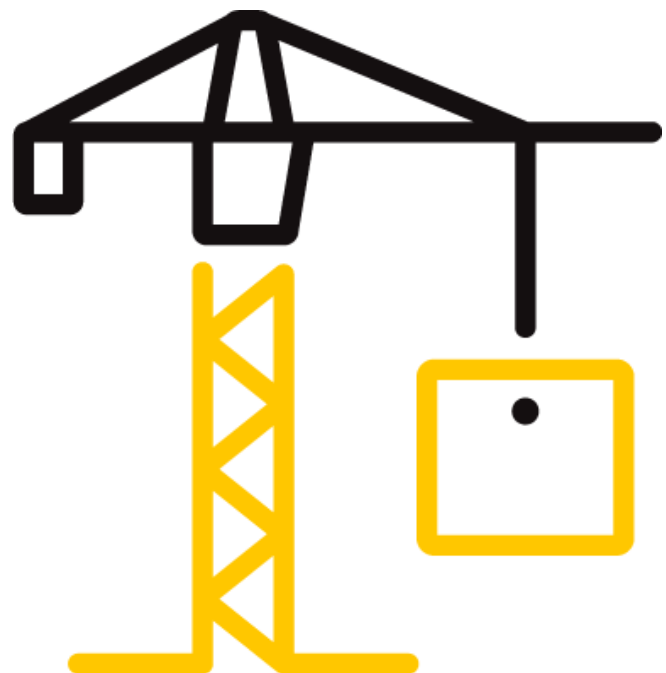
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RT-R-AMER-Test-2805

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TEST REPORT FOR QUICKBOLT – A DIVISION OF QUICKSCREWS INTERNATIONAL CORPORATION

Report No.: J2795.01-301-32

Date: 02/01/19

REPORT ISSUED TO

QUICKBOLT - A DIVISION OF QUICKSCREWS INTERNATIONAL CORPORATION

5830 Las Positas Road

Livermore, California 94551

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by QuickBOLT – A Division of Quickscrews International Corporation, Livermore, California to perform testing in accordance with ASTM E331, ASTM E331 (modified), and ASTM E2140 (modified), on their 3" and 4" Microflashing. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at Intertek 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

TITLE	RESULTS
ASTM E331 (modified), 120 min @ 15.0psf	No Leakage
ASTM E2124 (modified), 6" water column for 7 days	No Leakage

For INTERTEK B&C:

COMPLETED BY:	Gino Vitali	REVIEWED BY:	Tyler Westerling, P.E.
TITLE:	Technician	TITLE:	Senior Project Engineer
SIGNATURE:		SIGNATURE:	
DATE:	07/11/19	DATE:	07/11/19

EC:ms

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SECTION 3 TEST METHODS

The specimens were evaluated in general accordance with the following:

ASTM E331-00(2016) - (modified), *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*

Note: *The test time was extended beyond the time stated in the standard.*

ASTM E2140-01(2017) – (modified), *Standard Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head*

Note: *The test time was extended beyond the time stated in the standard.*

SECTION 4 INSTALLATION

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

A test roof was constructed using 2 x 10 and 2 x 4 lumber with a piece of rigid, clear plastic over the top. The specimens were then installed through a piece of TPO roof material according to the manufacturer's instructions with provisions to observe any water leakage.

SECTION 5 EQUIPMENT

Type	Manufacturer	Asset Number
Control Panel	Intertek-ATI	Y003301
Spray Rack	Intertek-ATI	63331

SECTION 6 LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Tyler Westerling, P.E	Intertek B&C
Gino Vitali	Intertek B&C

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SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: Solar Panel Mounting Point

Name: Microflashing

COMPONENT	MATERIAL	DESCRIPTION
Microflashing	EPDM	3" x 3" x 3/16" thick
Microflashing	EPDM	4" x 4" x 3/16" thick
Hook	Stainless	See photos
Mounting Screw	5/16" x 3" stainless lag screw	Into 1/4" predrilled holes

SECTION 8

TEST RESULTS

The temperature during testing was 18-24°C (65-75°F). The results are tabulated as follows:

3" Specimen

TITLE OF TEST	RESULTS	ALLOWED	NOTE
ASTM E331 (modified) @ 15.0psf	No leakage	No Leakage	1
ASTM E2140 (modified) @ 6" static water column	No leakage	No Leakage	2

4" Specimen

TITLE OF TEST	RESULTS	ALLOWED	NOTE
ASTM E331 (modified) @ 15.0psf	No leakage	No Leakage	1
ASTM E2140 (modified) @ 6" static water column	No leakage	No Leakage	2

Note 1: The test was conducted for a period of 120 minutes

Note 2: The test was conducted for a period of 7 days

End of test results.

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SECTION 9

PHOTOS



Photo No. 1

The specimen during ASTM E331 testing.

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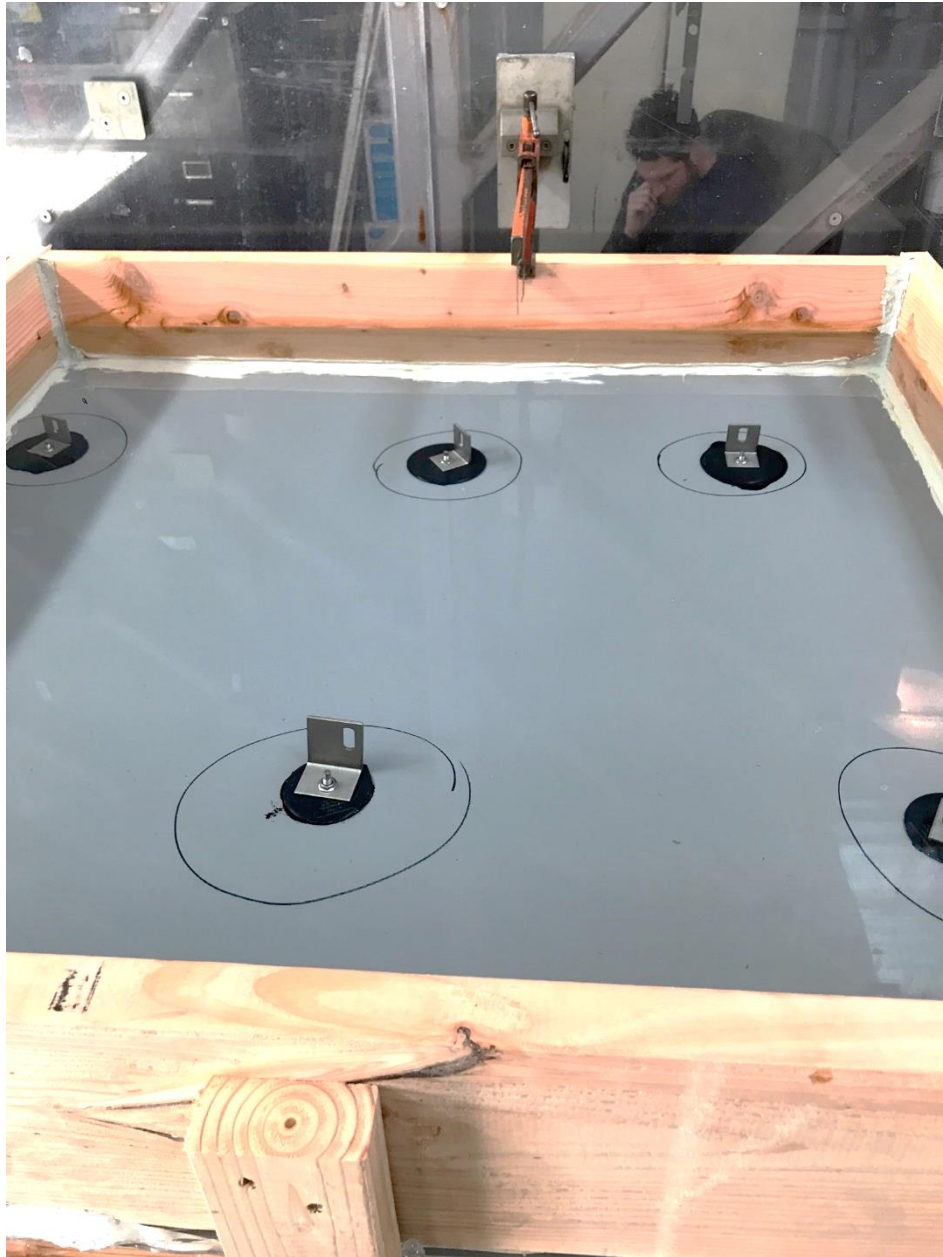


Photo No. 2
ASTM E2140 testing



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SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	02/01/19	N/A	Original Report Issue
1	03/12/19	All	Correction of Customer Name.
2	07/11/19	Title, 3 Appendix	Corrected test to show on TPO membrane Removed installation instructions.