

UNIRAC, INC.

TEST REPORT

SCOPE OF WORK

UL 441, SECTION 27: RAIN TEST TESTING ON FLASHLOC, ROOF MOUNT

REPORT NUMBER

K1190.01-109-44

TEST DATE(S)

09/04/19 - 09/09/19

ISSUE DATE

09/19/19

RECORD RETENTION END DATE

09/09/23

PAGES

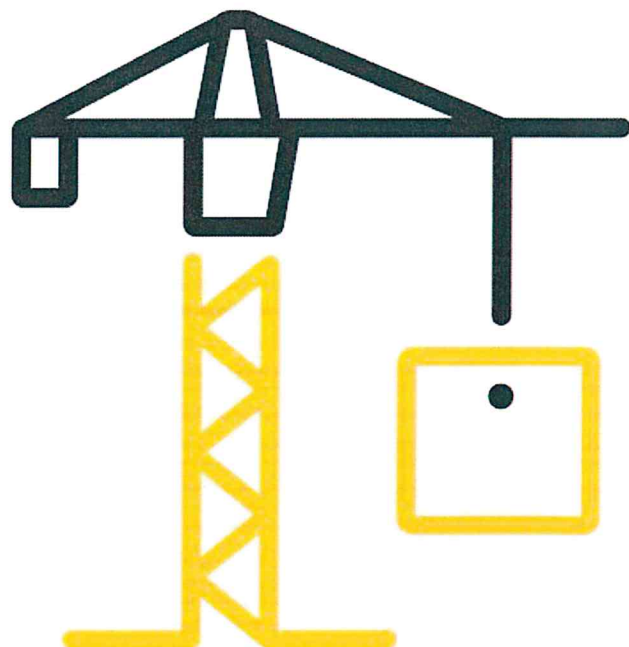
15

DOCUMENT CONTROL NUMBER

ATI 00479 (07/24/17)

RT-R-AMER-Test-2805

© 2017 INTERTEK





Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

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

TEST REPORT FOR UNIRAC, INC.

Report No.: K1190.01-109-44

Date: 09/19/19

REPORT ISSUED TO

UNIRAC, INC.

1411 Broadway Blvd. NE

Albuquerque, New Mexico 87102-1545

SECTION 1

SCOPE


Intertek Building & Construction (B&C) was contracted by Unirac, Inc. to perform testing in accordance with UL 441 Section 27: Rain Test, on their FLASHLOC, Roof Mount. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek B&C test facility in York, Pennsylvania.

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

For INTERTEK B&C:

COMPLETED BY: Robert J. Beatty

TITLE: Technician—
Product Testing

SIGNATURE: 
Digitally Signed by: Robert Beatty

DATE: 09/19/19

RJB:wnl

REVIEWED BY: Timothy J. McGill

TITLE: Manager – Product Testing

SIGNATURE: 
Digitally Signed by: Timothy J. McGill

DATE: 09/19/19

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.

TEST REPORT FOR UNIRAC, INC.

Report No.: K1190.01-109-44

Date: 09/19/19

SECTION 2

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

UL 441 Eleventh Edition dated August 28, 2019, *UL Standard for Safety for Gas Vents, Section 27: Rain Test*

SECTION 3

MATERIAL SOURCE/INSTALLATION

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

Test Specimens #1 and #2 Deck Construction: The test deck measured 3' wide by 3' high and was constructed of #2 Spruce-Pine-Fir nominal 2x6 lumber. One stud was centered on the deck for bolt attachment. Studs were attached to the top and bottom plates with 3" long drywall screws. A sheet of nominal 1/2" thick plywood was secured to the studs with #8 x 1-5/8" drywall screws. Silicone was utilized on the backside of the test panel to seal the perimeter. The test deck was then covered with #30 felt paper and asphalt shingles.

Test Specimen #3 and #4 Deck Construction: The test deck measured 3' wide by 3' high and was constructed of #2 Spruce-Pine-Fir nominal 2x6 lumber. One stud was centered on the deck for bolt attachment. Studs were attached to the top and bottom plates with 3" long drywall screws. A sheet of nominal 1/2" thick plywood was secured to the studs with #8 x 1-5/8" drywall screws. Silicone was utilized on the backside of the test panel to seal the perimeter. The test deck was then covered with torch applied roof membrane.

Test Specimen Installation: Each specimen was centered on a 2x6 stud and was secured with a 5/16" x 4" hex head lag bolt with a stainless steel-back EPDM washer through the Flashloc Comp Mount into the stud. The Flashloc Comp Mounts were completely filled with sealant. Test Specimens #1 and #3 utilized DuraLink™ 50 sealant. Test Specimens #2 and #4 utilized M-1® sealant. The sealant was allowed to cure for 24 hours.



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

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

TEST REPORT FOR UNIRAC, INC.

Report No.: K1190.01-109-44

Date: 09/19/19

SECTION 4

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Timothy J. McGill	Intertek B&C
Robert J. Beatty	Intertek B&C

SECTION 5

TEST SPECIMEN DESCRIPTION

Product Type: Roof Mount

Series/Model: FLASHLOC

The following descriptions apply to all specimens.

Test Specimen Description: The test specimens were formed from cast aluminum and measured approximately 3-3/4" (95 mm) wide by 2-1/4" (57.2 mm) high by 3-1/2" (88.9 mm) tall. (Reference Drawing Number P28503006)

TEST REPORT FOR UNIRAC, INC.

Report No.: K1190.01-109-44

Date: 09/19/19

SECTION 6

TEST RESULTS

The temperature during testing ranged from 77°F (25°C) to 82°F (28°C). The results are tabulated as follows:

Test Specimen #1:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration per UL 441 One hour of water spray	No leakage	No leakage	1

Test Specimen #1:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration per UL 441 One hour of water spray	No leakage	No leakage	2

Test Specimen #2:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration per UL 441 One hour of water spray	No leakage	No leakage	1

Test Specimen #2:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration per UL 441 One hour of water spray	No leakage	No leakage	2

Test Specimen #3:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration per UL 441 One hour of water spray	No leakage	No leakage	1

TEST REPORT FOR UNIRAC, INC.

Report No.: K1190.01-109-44

Date: 09/19/19

Test Specimen #3:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration per UL 441 One hour of water spray	No leakage	No leakage	2

Test Specimen #4:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration per UL 441 One hour of water spray	No leakage	No leakage	1

Test Specimen #4:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration per UL 441 One hour of water spray	No leakage	No leakage	2

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

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

Note 2: Tested at a 12:12 roof pitch

TEST REPORT FOR UNIRAC, INC.

Report No.: K1190.01-109-44

Date: 09/19/19

SECTION 7
PHOTOGRAPHS



Photo No. 1
Test Specimen #1

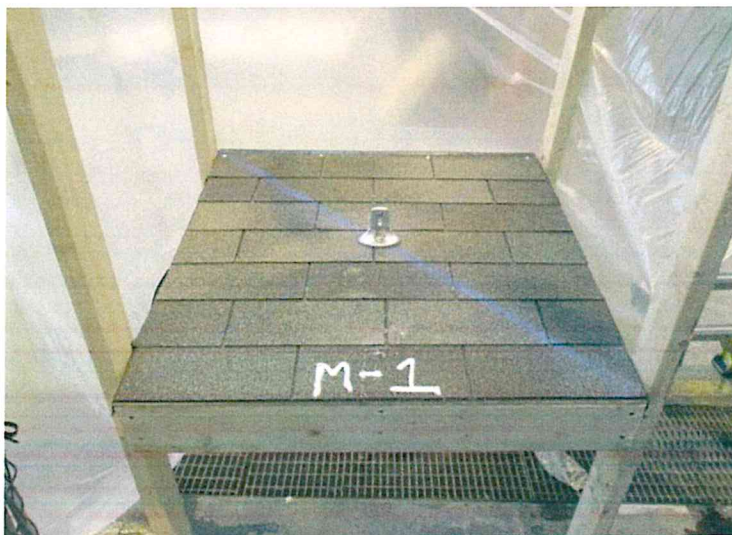


Photo No. 2
Test Specimen #2

TEST REPORT FOR UNIRAC, INC.

Report No.: K1190.01-109-44

Date: 09/19/19

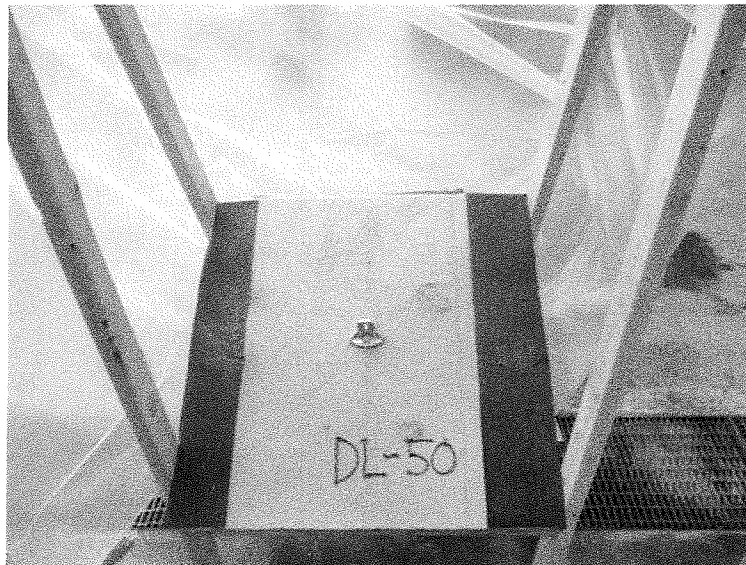


Photo No. 3
Test Specimen #3



Photo No. 4
Test Specimen #4



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

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

TEST REPORT FOR UNIRAC, INC.

Report No.: K1190.01-109-44

Date: 09/19/19

SECTION 8

DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

TEST REPORT FOR UNIRAC, INC.

Report No.: K1190.01-109-44

Date: 09/19/19

SECTION 9

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	09/19/19	N/A	Original Report Issue