

ESDEC, INC. TEST REPORT

SCOPE OF WORK

UL 441 TESTING ON ECOFASTEN'S TR-MOUNT

REPORT NUMBER

105106865LAX-003

ISSUE DATE

22-JULY-2022

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SUMMARY REPORT

22-JULY-2022

Intertek Report No.: 105106865LAX-003

Intertek Project No.: G105106865

Yann Schwarz
ESDEC, Inc.
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Hayward, CA 94545
Email: yann.schwarz@esdec.com

Ph: 510 225-0973

Subject: Project Summary of the Rain Testing per UL 441 on Ecofasten's TR-Mount


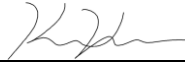
Dear Mr. Yann Schwarz

Intertek was contracted by ESDEC, Inc. to perform testing in general accordance with UL 441 on Ecofasten's TR-Mount. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at ESDEC's test facility at 28357 Industrial BLVD, Hayward, CA 94545.

This letter report represents the summary of our evaluation of the above referenced product(s).

UL 441, Safety for Gas Vents, Section 27: Rain Test

This letter report does not constitute certification of this product or any opinion or endorsement by this laboratory. If there are any questions regarding the results contained in this report, or any of the other services offered by Intertek, please do not hesitate to contact your dedicated Intertek Project Manager.

Completed by:	Deep Vora	Reviewed by:	Kamerine Kroner
Title:	Senior Project Engineer	Title:	Reviewer
Signature:		Signature	
Date	July 22, 2022	Date:	July 29, 2022

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SUMMARY REPORT

SECTION 1

MATERIAL SOURCE/INSTALLATION

The test specimen was provided by the client. The specimen was installed onto a Spruce-Pine-Fir wood deck. The test deck measured 3’ wide by 3’ high and was constructed of #2 Spruce Pine Fir nominal 2x4 lumber. One rafter was centered on the deck for bolt attachment. The rafters were attached to the top and bottom plates with 3” long roofing screws. A sheet of nominal 7/16” thick plywood was secured to the studs with #8 x 1-5/8” roofing screws. The test deck was then covered with a single layer of #15 felt paper. No tiles or battens were used on the deck.

Description/Installation (TR-Mount by Ecofasten): The test specimen was composed of a 7.5” x 12” x 0.0375” aluminum flashing pressed into an extruded aluminum base which stood 3/4” above the deck. The mount was secured with two 5/16” x 4” structural screws with EPDM washers. The specimen was installed directly on top of the single layer of #15 felt paper without sealant. No tile replacement was installed.

Ecofasten TR-Mount Part numbers covered by this test report are as follows:

Part Number	Description
3013019	TR Base Universal Al

SECTION 3

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Jae Hendrickson	ESDEC, Inc.

SECTION 4

TEST RESULTS

The temperature during testing was 24°C (75°F) and the humidity was 42%. The results are tabulated as follows:

Test Specimen #1 (Ecofasten TR-Mount):

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Water Penetration, Per UL 441 - One hour of water spray	Pass	No leakage	1, 2

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

Note 1: Tested at 2:12 pitch

Note 2: Test results are applicable for roofs having a slope of 2:12 or greater

SUMMARY REPORT

SECTION 5
PHOTOGRAPHS

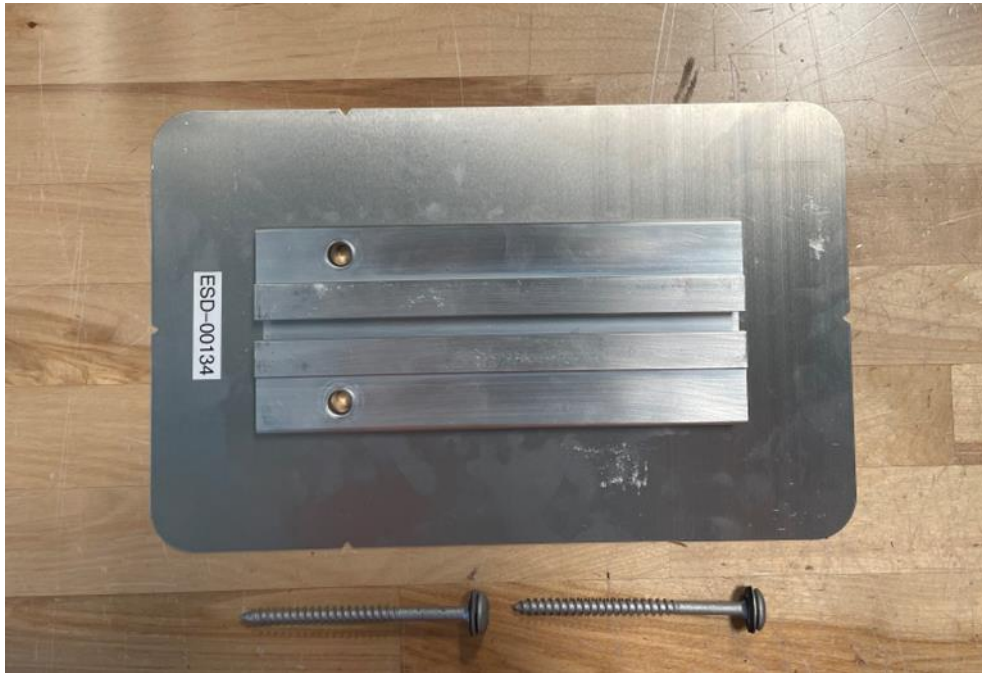


Photo No. 1
Unassembled Test Specimen



Photo No. 2
Test Specimen Under Test

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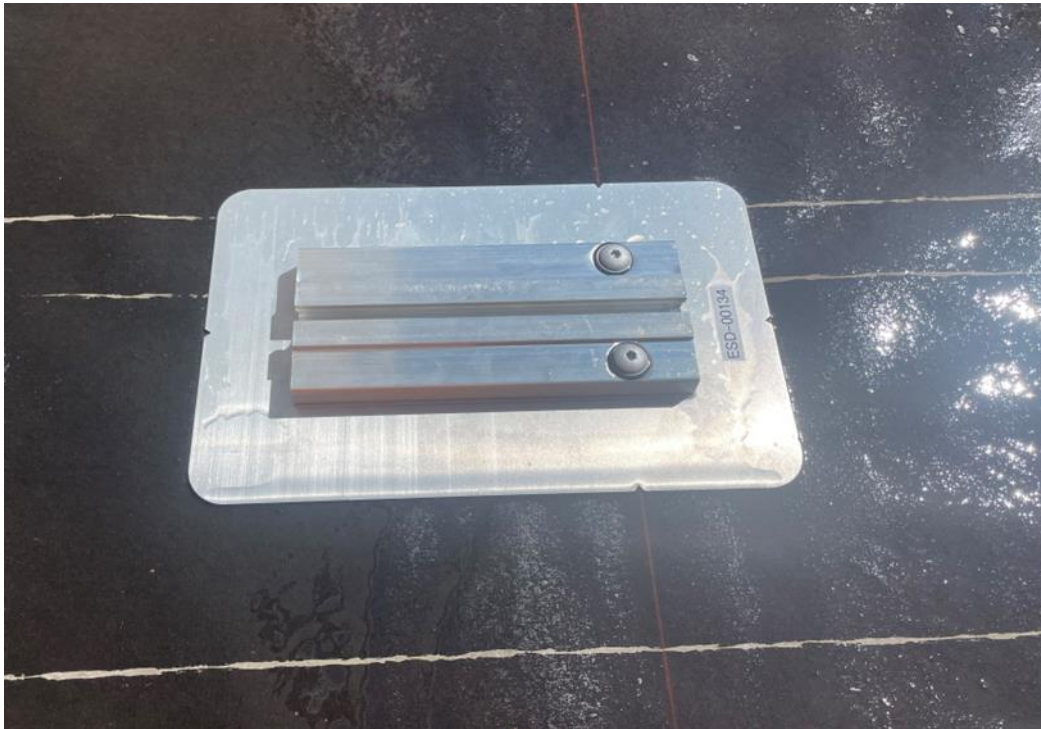


Photo No. 3
Test Specimen After Test



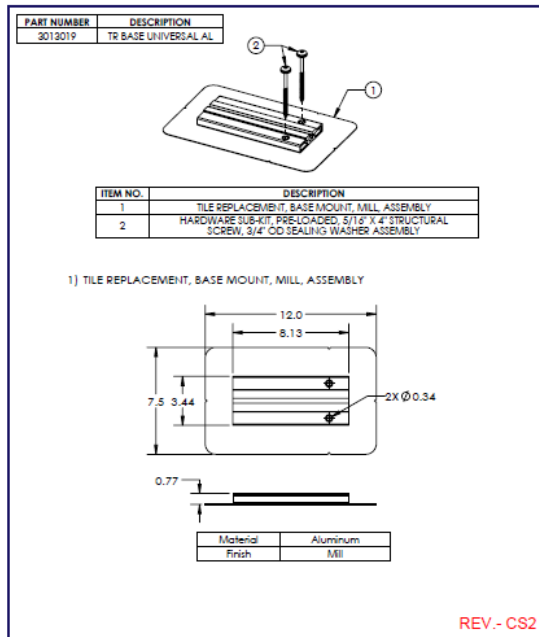
Photo No. 4
Underside of Test Desk After Test – no visible water penetration

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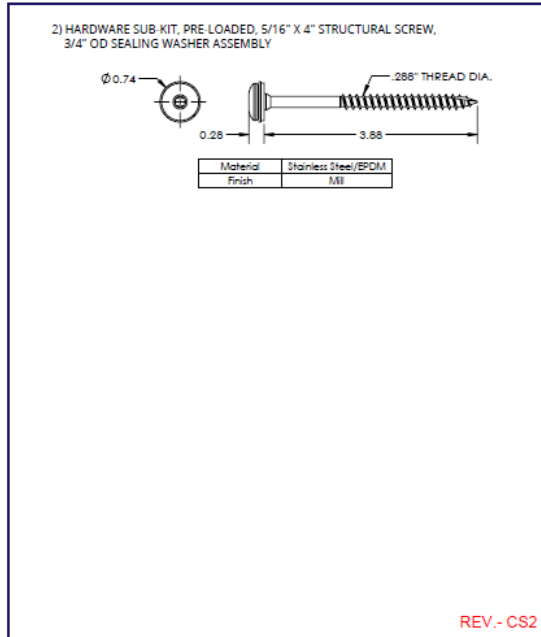
SECTION 6 DRAWINGS

The test specimen drawings have been reviewed by Intertek and are representative of the test specimen(s) reported herein. Any deviations are documented herein or on the drawings.

TR BASE UNIVERSAL AL



TR BASE UNIVERSAL AL



Drawing No. 1
Ecofasten TR-Mount