

ESDEC, INC. TEST REPORT

SCOPE OF WORK

UL 441 TESTING ON ECOFASTEN'S CORRUSLIDE MOUNT ROOF ATTACHMENT

REPORT NUMBER

105106865LAX-002

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SUMMARY REPORT

22-JULY-2022

Intertek Report No.: 105106865LAX-002

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 Corruslide Mount Roof Attachment


Dear Mr. Yann Schwarz

Intertek was contracted by ESDEC, Inc. to perform testing in general accordance with UL 441 on Ecofasten's Corruslide Mount Roof Attachment. 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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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. Two pieces of 26ga PBR roof panels were attached to the deck with #10-14 x 1” tapping screws with an EPDM bonded washer. The panels were installed with the raised corrugation centered on the deck.

Description/Installation (Corruslide Mount Roof Attachment by Ecofasten): The test specimen was composed of three extruded aluminum parts. The two aluminum mounts with EPDM gaskets had a contact surface area of 1” x 3” and were secured 3” apart across the corrugation. The two mounts were fastened to the corrugated panel with 5 self-drilling 1/4”-14 x 7/8” screws with EPDM backed washers. The third aluminum top mount, when fully assembled to the bottom mounts, occupied a 3” x 4” x 1.5” space on the roof deck. No sealants were used.

Ecofasten Corruslide Mount Roof Attachment Part numbers covered by this test report are as follows:

| Part Number | Description |
|-------------|---------------------|
| 3014010 | Corruslide Mount 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 Corruslide Mount Roof Attachment):

| 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.

CORRUSLIDE MOUNT AL

| PART NUMBER | DESCRIPTION |
|-------------|---------------------|
| 3014010 | CORRUSLIDE MOUNT AL |

| ITEM NO. | DESCRIPTION |
|----------|--|
| 1 | CORRUSLIDE-TOP-LONG |
| 2 | SLOT BRACKET-SIMPLIFIED MACHINING OPERATION |
| 3 | CORRUSLIDE-FLUPPER MACHINING OPERATION |
| 4 | EPDM GASKET SEAL |
| 5 | EPDM GASKET SEAL CORRUSLIDE FLIPPER |
| 6 | SS HEX HD CAP SCREW, FULL THREAD, 5/16-18UNC X 1.50 LONG |
| 7 | SS SERRATED FLANGE LOCK NUT, 5/16-18 |
| 8 | 1/4"-14 X 7/8" DP1/LAP W/VRT BLAZER STAINLESS CAP HEAD W/ SEALING WASHER |

1) CORRUSLIDE-TOP-LONG

| | |
|----------|----------|
| Material | Aluminum |
| Finish | Mill |

REV.- CS1

CORRUSLIDE MOUNT AL

2) SLOT BRACKET-SIMPLIFIED MACHINING OPERATION

| | |
|----------|----------|
| Material | Aluminum |
| Finish | Mill |

3) CORRUSLIDE-FLUPPER MACHINING OPERATION

| | |
|----------|----------|
| Material | Aluminum |
| Finish | Mill |

REV.- CS1

CORRUSLIDE MOUNT AL

4) EPDM GASKET SEAL

| | |
|----------|--------|
| Material | Rubber |
| Finish | Gray |

5) EPDM GASKET SEAL CORRUSLIDE FLIPPER

| | |
|----------|--------|
| Material | Rubber |
| Finish | Gray |

REV.- CS1

CORRUSLIDE MOUNT AL

6) SS HEX HD CAP SCREW, FULL THREAD, 5/16-18UNC X 1.50 LONG

| | |
|----------|-----------------|
| Material | Stainless Steel |
| Finish | Mill |

7) SS SERRATED FLANGE LOCK NUT, 5/16-18

| | |
|----------|-----------------|
| Material | Stainless Steel |
| Finish | Mill |

8) 1/4"-14 X 7/8" DP1/LAP W/VRT BLAZER STAINLESS CAP HEAD W/ SEALING WASHER

| | |
|----------|-----------------|
| Material | Stainless Steel |
| Finish | Mill |

REV.- CS1

Drawing No. 1
Ecofasten Corruslide Mount Roof Attachment