

ESDEC, INC.

MIAMI-DADE

TEST REPORT

SCOPE OF WORK

TAS 100(A) TESTING ON ECOFASTEN'S SMART CONDUIT MOUNT

REPORT NUMBER

P8271.01-301-18 R0

TEST DATE

10/12/2022

ISSUE DATE

05/19/2023

RECORD RETENTION END DATE

10/12/2032

PAGES

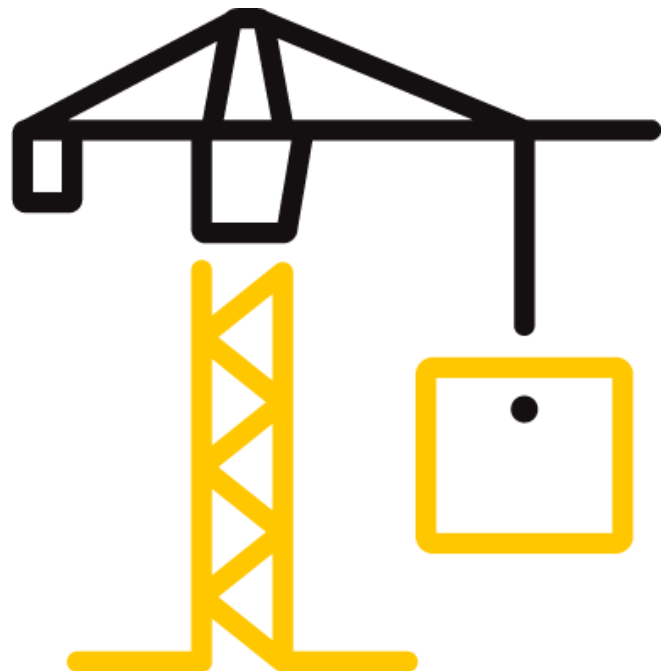
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DOCUMENT CONTROL NUMBER

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RT-R-AMER-Test-2816

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Fresno, California 93706

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Facsimile: 717-764-4129
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TEST REPORT FOR ESDEC, INC.

Report No.: P8271.01-301-18-R0

Date: 05/19/23

REPORT ISSUED TO

ESDEC, INC.

28357 Industrial Boulevard

Hayward, California 94545

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Esdec, Inc. to perform TAS 100(A) testing in accordance with Miami-Dade County requirements on the Ecofasten’s Smart Conduit Mount. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek B&C test facility in Fresno, California.

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

For INTERTEK B&C:

COMPLETED BY: Ricardo Cortez

TITLE: Technician II

SIGNATURE:

DATE: 05/19/23

REVIEWED BY: Tyler Westerling, P.E.

TITLE: Regional Manager

SIGNATURE:

DATE: 05/19/23

RC:ms

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SECTION 2

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

TAS 100 (A)-95, *Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge Area.*

SECTION 3

CALIBRATION

Windstream, water supply, and water distribution calibration were performed prior to testing.

SECTION 4

MATERIAL SOURCE

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

SECTION 5

EQUIPMENT

Equipment calibration records are available for review at 130 Derry Court, York, PA 17406.

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Jae Hendrickson	Esdec Inc.
Ricardo Cortez	Intertek B&C
Lucas Jawien	Intertek B&C
Jarod Hardman	Intertek B&C

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SECTION 7

TEST SPECIMEN DESCRIPTION

Roof Deck Description: An 8' 0" wide by 6' 0" long roof deck on a 2:12 slope was utilized. The roof deck did not utilize a ridge vent. The roof deck consisted of #2 Spruce-Pine-Fir nominal 2x4 rafters sheathed with 7/16" Oriented Strand Board (OSB). The rafters were spaced 24" on center. The OSB was secured to the rafters with #8 x 1-5/8" drywall screws spaced 6" on center around the perimeter and 12" on center at the intermediate supports. The OSB sheathing was covered with dimensional asphalt shingles.

Description/Installation (Smart Conduit Mount by Ecofasten): The test specimen was composed of an approx. 3.5" x 1.5" x 1" die cast aluminum Conduit Mount with the UltraGrip™ Flashing System using either a grey or black sealant. The mount was secured to the deck with (Qty 1) #14 x 3" stainless steel structural wood screw with EPDM backed stainless steel washers. No pilot holes were drilled.

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SECTION 8

TEST RESULTS

Protocol TAS 100(A)-95, Test Procedure for Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge Area.

Test Date: 10/12/2022

The temperature during testing was 28°C (80°F). The results are tabulated as follows:

Test Procedure: The wind speed intervals were conducted as follows:

Interval No.	Wind Speed (mph)	Time (min)	Water Spray
1	35	15	On
2	0	5	Off
3	70	15	On
4	0	5	Off
5	90	15	On
6	0	5	Off
7	110	15	On
8	0	5	Off

Test Results: The TAS 100(A) test results are as follows:

Wind Speed	Results
35 mph	0 oz.
70 mph	0 oz.
90 mph	0 oz.
110 mph	0 oz.

Results: Pass

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

Note 2: Six specimens were installed onto the test deck.

Note 3: Test results are applicable for three tab and dimensional asphalt shingle roofs having a slope 2:12 or greater.

Note 4: Test results are applicable for both rafter and deck mounting configurations.

Note 5: Test results are applicable for installing at butt joints, steps, or keyways.

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SECTION 9
PHOTOGRAPHS



Photo No 1
Top Side of the Test Deck before Testing

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Photo No. 2

Underside of the Test Deck after Testing (no leaks)

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Photo No. 3

Test apparatus for TAS 100(A)

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Photo No. 4

Test specimens loaded for TAS 100(A)

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Photo No 5

Two conditions shown:

Left – Installed onto Rafter positioned over shingle step and butt joint

Right – Installed onto Deck positioned over shingle step



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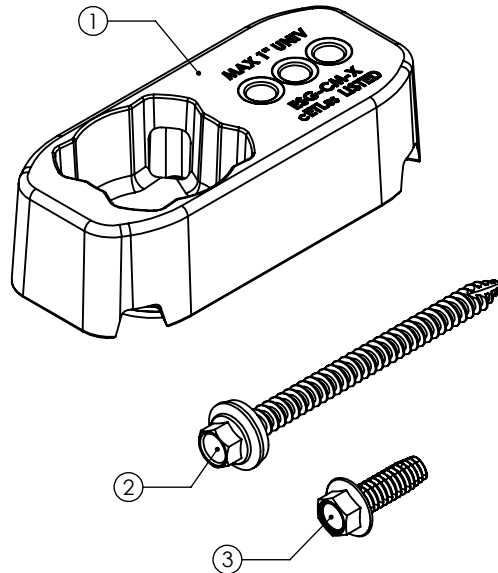
SECTION 10

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.

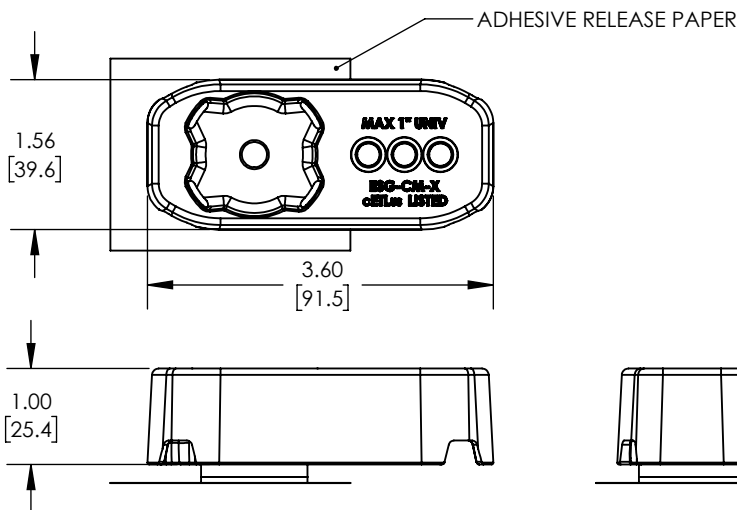
SMART CONDUIT MOUNT W/HW

PART NUMBER	DESCRIPTION
4011017	SMART CONDUIT MOUNT W/HW



ITEM NO.	DESCRIPTION
1	SMART CONDUIT MOUNT
2	SELF DRILLING SCREW, #14, WOOD TIP, WITH WASHER, EPDM BACKED
3	THREAD ROLLING SCREW, HEX FLANGE HEAD, #1/4 X 3/4

1) SMART CONDUIT MOUNT



UltraGrip™ Flashing System

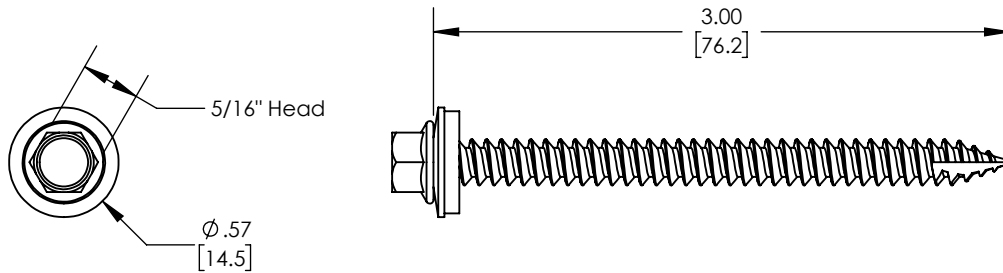
MATERIAL	ALUMINUM
FINISH	MILL

Report #: P8271-301-18
Date: 05/18/23
Verified by: *R. T. O'G*

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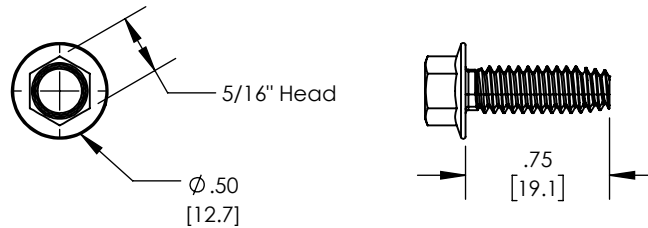
SMART CONDUIT MOUNT W/HW

2) SELF DRILLING SCREW, #14, WOOD TIP, WITH WASHER, EPDM BACKED



MATERIAL	STAINLESS STEEL, POLYMERIC
FINISH	MILL

3) THREAD ROLLING SCREW, HEX FLANGE HEAD, #1/4 X 3/4



MATERIAL	STAINLESS STEEL
FINISH	MILL

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SECTION 11
REVISION LOG

REVISION #	DATE	PAGES	DESCRIPTION
0	05/19/23	N/A	01/25/23