

# DASSOXTR FIRE TEST REPORT

## SCOPE OF WORK

SFM 12-7A-1 TESTING ON EXTERIOR WALL ASSEMBLY CONTAINING EPC-SID18-137TG-PP  
CLASSIC ESPRESSO 1 IN. X 7 IN. RAINCLAD SIDING SHIPLAP FUSED BAMBOO DECK BOARDS

## REPORT NUMBER

J6810.05-121-24-R0

## TEST DATE(S)

06/26/19

## ISSUE DATE

08/01/19

## REVISION DATE

08/23/19

## RECORD RETENTION END DATE

06/26/23

## PAGES

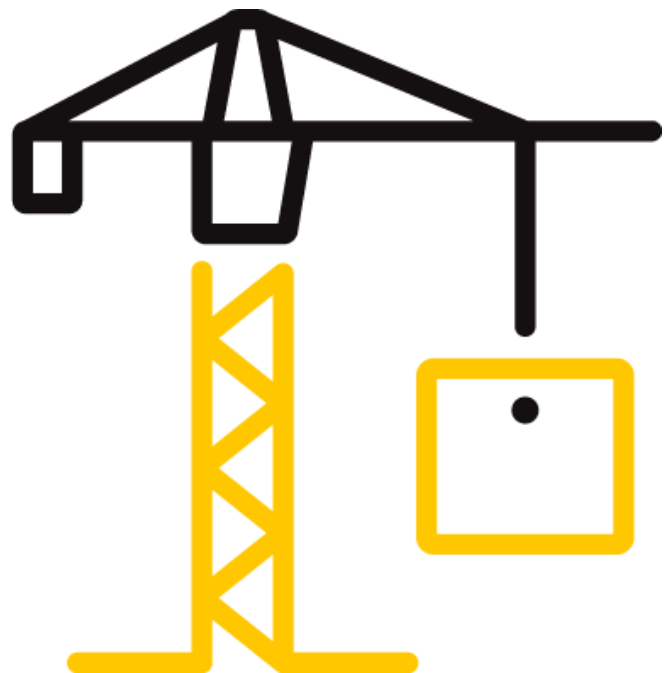
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## DOCUMENT CONTROL NUMBER

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RT-R-AMER-Test-3477

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## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

### REPORT ISSUED TO

#### DassoXTR

6060 Boat Rock Boulevard SW

Atlanta, Georgia 30336

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by DassoXTR, 6060 Boat Rock Boulevard SW Atlanta, Georgia 30336 to evaluate the performance of EPC-SID18-137TG-PP Classic Espresso 1 in. x 7 in. siding shiplap fused bamboo when exposed to direct flames. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania. Results obtained are tested values and were secured by using the designated test method(s). A summary of test results and the complete graphical test data is reported herein.

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

### SECTION 2

#### SUMMARY OF TEST RESULTS

**Wall System:** Exterior Wall Assembly

**Combustible Components:** EPC-SID18-137TG-PP Classic Espresso 1 in. x 7 in. siding shiplap fused bamboo, Dupont™ Tyvek® HomeWrap®.

#### SFM 12-7A-1 Test Results

The assembly described and tested in this report **did** meet the Conditions of Acceptance of SFM 12-7A-1. Construction of the full assembly is summarized in Section 7 of this test report.

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Scott Gingrich	<b>REVIEWED BY:</b>	Ethan Grove
<b>TITLE:</b>	Technician Team Lead – Fire Testing	<b>TITLE:</b>	Manager – Fire Testing
<b>SIGNATURE:</b>		<b>SIGNATURE:</b>	
<b>DATE:</b>	08/23/19	<b>DATE:</b>	08/23/19

SDG:ddr

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## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

### SECTION 3

#### TEST METHOD

The assembly was evaluated in accordance with the following:

**California Referenced Standards Code (Chapter 12-7A), *Materials and Construction Methods for Exterior Wildfire Exposure***

**SFM Standard 12-7A-1, *Exterior Wall Siding and Sheathing***

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

The sampled products were selected by Intertek B&C personnel. The specimen(s) was/were witnessed during production and tagged prior to shipment on 06/11/19, (Reference Intertek B&C Test Specimen Selection Report No. J6810.03-103-15-r0, dated 06/11/19). The remaining components of the test assembly were provided by the client except simulated floor joists which were acquired and assembled by Intertek B&C personnel.

### SECTION 5

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Scott Gingrich	Intertek B&C
Nathan Brillhart	Intertek B&C
Mark Dluzeski	Intertek B&C

## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

### SECTION 6

#### TEST PROCEDURE

The test specimen is installed into the fixture and centered underneath of the combustion collection system. The ignition source for the test is a gas burner with a 4 inch by 39 inch diffusion adapter filled with a minimum 4-inch layer of Ottawa sand. The top surface of the burner through which the gas is applied is positioned 12 inches above the floor. The burner is centered inside of the fixture and is placed in contact with the surface of the specimen. The gas supply to the burner is C.P. grade propane (99 percent purity). The burner is set to produce a gross heat output of  $150 \pm 8$  kW for ten minutes. The flow rate is metered throughout the test. The gas burners are controlled with mass flow meters to control the volume of gas to match the heat outputs of the standard. At the end of the ten-minute burn period, the burner is shut off and all instrument readings are stopped. Post-test observations are made for an additional 60 minutes or until all evidence of combustion is no longer visible. The test procedure is repeated to a total of three total tests.

### SECTION 7

#### TEST ASSEMBLY DESCRIPTION

The overall dimensions of the test assembly are 4 feet wide by 8 feet high. Below is a detailed description of the components in the assembly:

##### **Framing**

2 in. x 4 in. x 8 ft. 4 SPF dimensional lumber was used as the framing. The studs were placed on 24 in. centers. This framing was secure to a header and sill board of the same lumber and secured with 3-5/8 in long framing nails.

##### **Exterior Sheathing**

1/2 in. thick National Gypsum Gold Bond® eXP® exterior gypsum sheathing, meeting the requirements of ASTM C1177, was installed vertically across the full exterior surface of the assembly. A vertical joint was utilized on the center vertical stud. The gypsum sheathing was fastened to the wall framing with #6 x 1-1/4 in. long, bugle head, self-drilling screws with a nominal spacing of 8 in. around the board perimeter and 12 in. in the field.

##### **Water-resistive Barrier**

Dupont™ Tyvek® HomeWrap® was used as the water-resistive barrier. As per manufactures installation instructions a 6 in. over lap was used. Staples were used to secure the Tyvek® to the assembly.

## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

### SECTION 7 (Continued)

#### TEST ASSEMBLY DESCRIPTION

##### Exterior Cladding

1 in. wide x 1/2 in. thick wood battens were installed first on the assembly. 6 in. wide DassoXTR EPC-SID18-137TG-PP Classic Espresso was utilized as the cladding for the assembly. Cisen Sheathing system was used to secure the cladding to the assembly. Two 1 in. long #12 pan head 316-grade stainless steel screw were used per clip. Clips were not placed greater than 24 in. on center and placed at each siding joint.

### SECTION 8

#### TEST OBSERVATIONS

Test Date: June 26, 2019

Lab Temperature: 84°F

Lab Relative Humidity: 48%

##### Test #1

TIME (Min:Sec)	OBSERVATIONS
00:00	Ignition of room burner. Heat output set at 150 kW
01:06	Charing/smoke emitting from joints.
01:24	Ignition above the burner.
02:53	Ignition at the top of the assembly/
10:00	Burner extinguished. Post-test observation period begins.
10:01	Glowing on the exposed surface.
70:00	Post-test observation period ends; test concluded.

##### Test #2

TIME (Min:Sec)	OBSERVATIONS
00:00	Ignition of room burner. Heat output set at 150 kW
0:54	Ignition above the burner.
03:38	Ignition at the top of the assembly.
04:40	Smoke emitting from the top of the unexposed surface.
10:00	Burner extinguished. Post-test observation period begins.
10:01	Glowing from the joints if the siding.
18:00	Smoke stops emitting from the unexposed surface.

## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

70:00	Post-test observation period ends; test concluded.
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### SECTION 8 (Continued)

#### TEST OBSERVATIONS

##### Test #3

TIME (Min:Sec)	OBSERVATIONS
00:00	Ignition of room burner. Heat output set at 150 kW
0:37	Smoke begins to emit from the siding joints.
0:57	Ignition of the siding above the burner.
01:22	Siding begins to chars.
05:02	Ignition at the top of the exposed assembly.
10:00	Burner extinguished. Post-test observation period begins.
10:01	Flames and glowing at the top of the assembly and siding joints.
10:18	Flames at the top of the assembly stop emitting from the surface.
21:00	Glowing is observed across the assembly at the siding joints.
70:00	Post-test observation period ends; test concluded.

### SECTION 9

#### TEST RESULTS

TEST REQUIREMENTS	TEST RESULTS	PASS/FAIL
Absence of flame penetration through the wall assembly at any time.	Flame penetration through the assembly was not observed during the full duration of the three tests.	PASS
Absence of evidence of glowing combustion on the interior surface of the assembly at the end of the 70-minute test.	No Evidence of glowing combustion on the interior surface of the assembly at the end of the 70-minute duration for all three tests was present.	PASS

## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

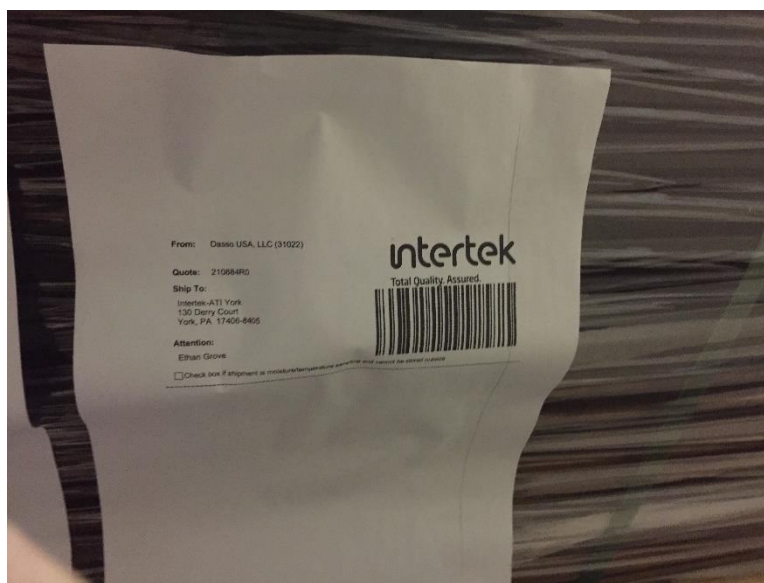
Date: 08/01/19

Revision Date: 08/23/19

### SECTION 10 PHOTOGRAPHS



**Photo No. 1**  
**Sample Identification**



**Photo No. 2**  
**Sampling Labeling**

## TEST REPORT FOR DASSOXTR

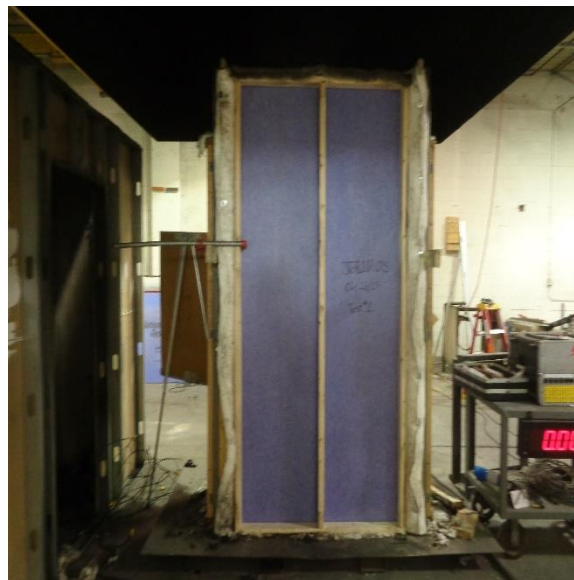
Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19



**Photo No. 3**  
**Construction of Test Assembly**



**Photo No. 4**  
**Complete Assembly (Interior)**



## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

### SECTION 10 (Continued)

#### PHOTOGRAPHS



**Photo No. 5**  
**Complete Assembly (Exterior)**



**Photo No. 6**  
**Test Assembly (Pre-test)**

## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

### SECTION 10 (Continued)

#### PHOTOGRAPHS



**Photo No. 7**  
**Ignition of Burner**



**Photo No. 8**  
**Flaming after Burner is Extinguished**

## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

### SECTION 10 (Continued)

#### PHOTOGRAPHS



**Photo No. 9**  
**Post-test Exterior**



**Photo No. 10**  
**Post-test Interior**

## TEST REPORT FOR DASSOXTR

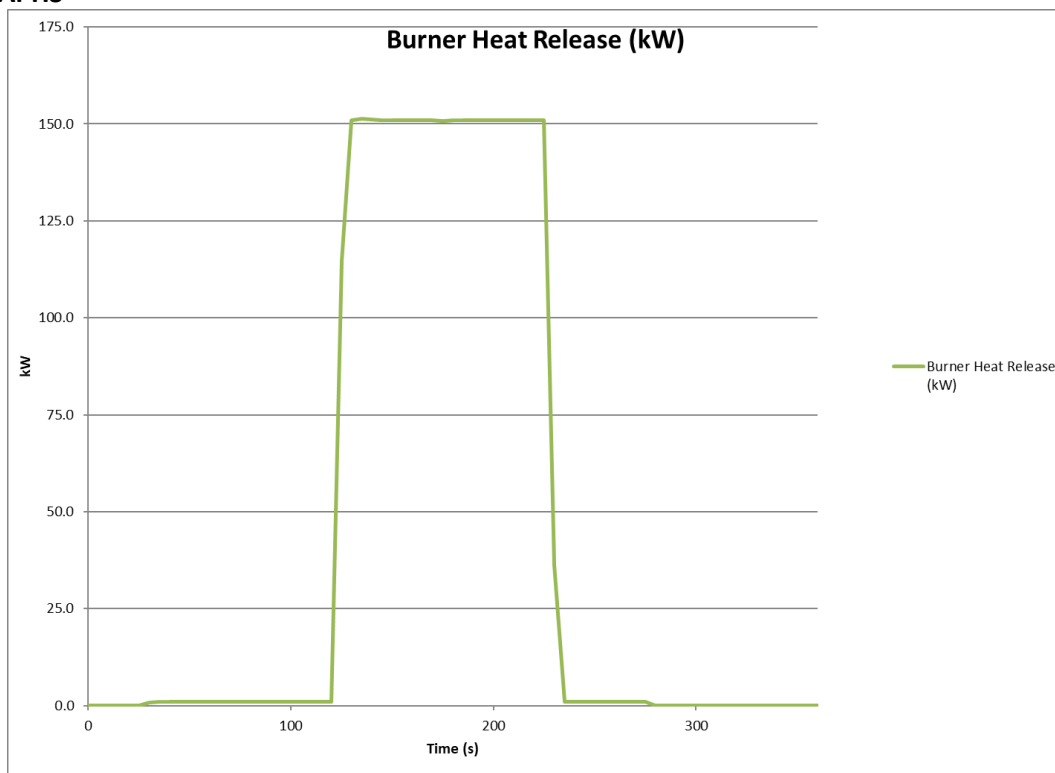
Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

### SECTION 11

#### GRAPHS



**Graph No. 1**  
**Burner Output Verification Data**



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## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

### SECTION 12

#### DRAWINGS

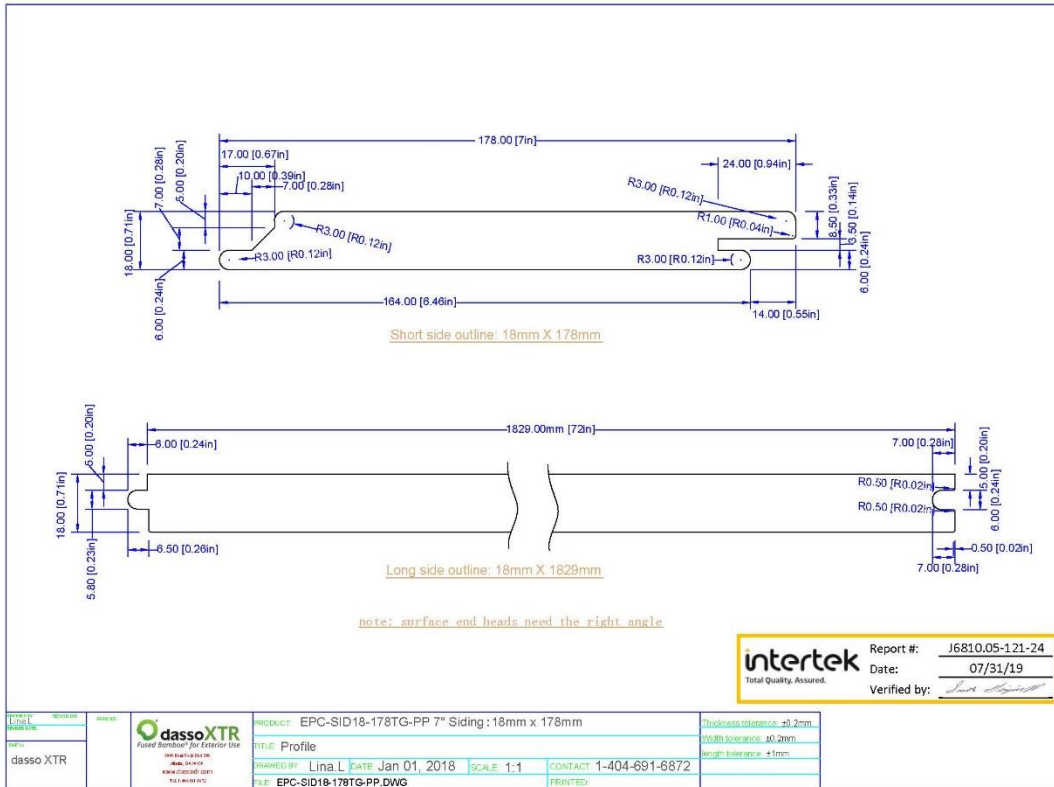
The test specimen drawings which follow have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

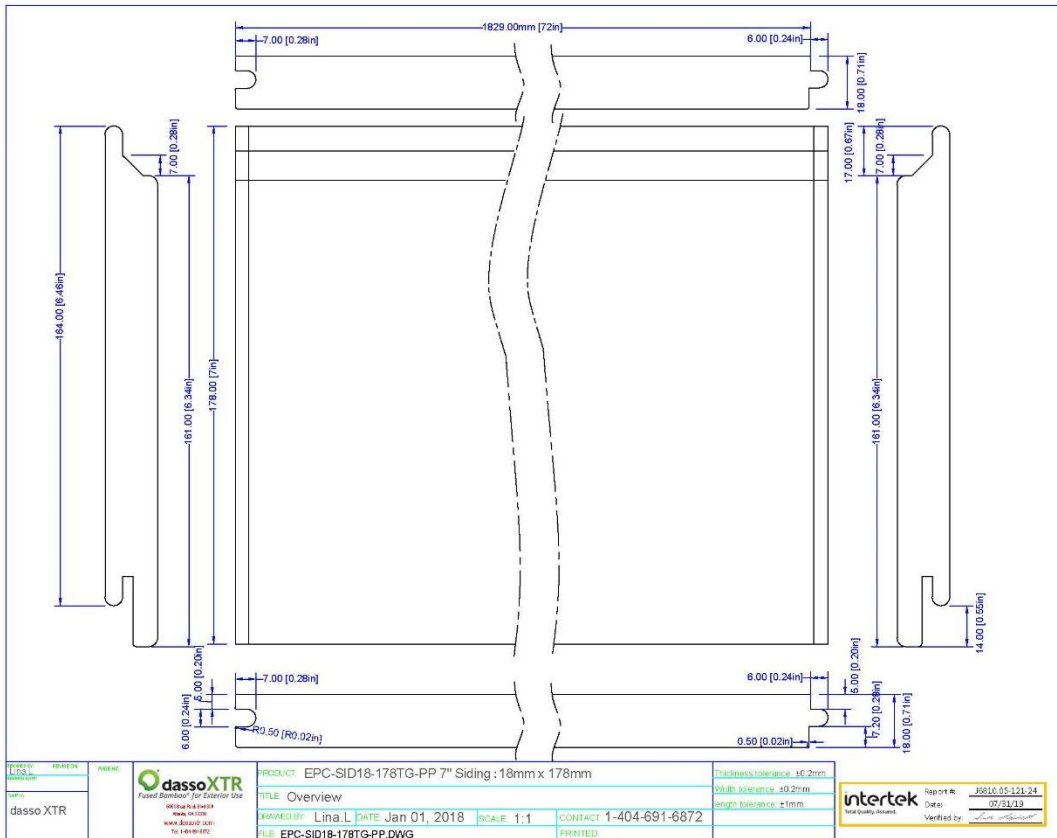


## TEST REPORT FOR DASSOXTR

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19



**TEST REPORT FOR DASSOXTR**

Report No.: J6810.05-121-24-R0

Date: 08/01/19

Revision Date: 08/23/19

**SECTION 13**

**REVISION LOG**

REVISION #	DATE	PAGES	REVISION
0	08/01/19	N/A	Original Report Issue
1	08/23/2019	1,2, and 5	Corrected the model number to match what was tested