205 Bucknell Court SW, Suite A
Atlanta, GA 30336
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www.righttestinglabs.com

ASTM E84-25 Fire Test Report

Issued to **Marlite**

Product ID **Symmetrix™ Smart Seam FRP Class "A"**

Scope of Evaluation

Fire Testing to ASTM E84-25 "Standard Method of Test for Surface Burning Characteristics of Building Materials".

Test Report Number
RTL1278

Date of Test
2/3/2026, 10:27:05 AM

Report Issued on
February 11, 2026

Record Kept until
February 10, 2030



Report Template Control Number
Test Report; V1.8_09-16-2025

Number of Pages in Report
8

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Report Issued To:
Marlite
1 Marlite Dr
Dover, OH 44266
USA

Proposal Number: SSP-01192026-01
Acceptance Date: Monday, January 19, 2026
Accepted By: Chris Grispin

Product ID: Symmetrix™ Smart Seam FRP Class "A"
as stated by client.

Witnesses of Test: Michael McConnell-RTL and Kelly Estes-RTL

Test Result:

Flame Spread Index (FSI)	Smoke Developed Index (SDI)
15	250

**See Details of Evaluation on the subsequent pages of this report.*

Classification: **A**

Prepared by

Name: **Michael McConnell**
Title: *Technician*
Date: February 11, 2026

Signed for and on the behalf of
Right Testing Laboratories, LLC.

Scott Parkhurst
Laboratory Manager
February 11, 2026

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Section 1: Product Details

1.1 Sampling Detail:

The Test sample was delivered to Right Testing Labs by the client directly. No witness of sample preparation was observed by RTL.

1.2 Sample Receiving Date: Wednesday, January 28, 2026

1.3 Sample Condition as Received: Good

Product ID: (as stated by client) Symmetrix™ Smart Seam FRP Class "A"

Sample Type:	Sheet	
Sample Received Width:	24	inches
Sample Received Length:	8	feet
Sample Received	0.11	inches
# of Samples Received:	4	pieces

1.4 Sample Conditioning:

Average Temperature:	71.4	°F
Average Humidity:	50.9	%RH
Conditioning Time:	6.0	Days
Moisture Content	N/A	%

Note: Test specimen conditioning was done in accordance with §6.4 of ASTM E84.

1.5 Testing Preparation:

The Test samples consisted of (3) nominally .11-inch thick sheet boards. The samples were stacked end to end to meet the test specimen requirements of ASTM E84.

Section 2: Procedure / Evaluation Method

2.1 Scope of Test Method

This fire-test-response standard is used for the comparative surface burning behavior of building materials and is applicable to exposed surfaces such as walls, ceilings and others. The test is conducted with the specimen in the ceiling position with the surface to be evaluated exposed face down to the ignition source. The material, product, or assembly shall be capable of being mounted in the test position during the test. Thus, the specimen shall either be self-supporting by its own structural quality, held in place by added supports along the test surface, or secured from the back side. The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

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2.1 Scope (Continued from previous page)

The use of supporting materials on the underside of the test specimen has the ability to lower the flame spread index from those which might be obtained if the specimen could be tested without such support. These test results do not necessarily relate to indices obtained by testing materials without such support.

Testing of materials that melt, drip, or delaminate to such a degree that the continuity of the flame front is destroyed, results in low flame spread indices that do not relate directly to indices obtained by testing materials that remain in place.

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of the materials, products, or assemblies under actual fire conditions. Right Testing Laboratories has obtained the tested values on the test specimen as received when assembled and tested as outlined in this report by using the designated test method(s) noted above. The results obtained only apply to the specimen tested in this report, which does not constitute that Right Testing Laboratories' endorses nor certifies the product tested under this evaluation.

2.2 Procedure

A test specimen of at least 20 inches in width by 24 feet in length is placed onto the support ledge of the fire test chamber in accordance to Section 5 of ASTM E84. The fire test chamber, a rectangular horizontal duct with a removable lid with inside dimensions, measures approximately 18 inches wide by 12 inches deep by approximately 25 feet long, which is used for comparative surface burning behavior of building materials to determine flame spread index (FSI) and a smoke developed index (SDI). The specimen is exposed to the test flame in the test chamber for a total of 10-minutes with observations recorded. The FSI and SDI of the test specimen are compared to that of the calibration media of ASTM E84 (Red Oak: Flame Spread, Concrete Board:0% Smoke and Heptane: 100%) and rounded according to ASTM E84 Section 9 Calculations.

In accordance to ASTM E84, the results for FSI and SDI less than 200 are adjusted to the nearest figure divisible by 5.
SDI values over 200 are rounded to the nearest figure divisible by 50.

In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

Classification	FSI	SDI
A	0 through 25	Less than or equal to 450
B	26 through 75	Less than or equal to 450
C	76 through 200	Less than or equal to 450

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2.3 Test Specimen Details

Sample as Tested Width:	24 inches
Sample as Tested Length:	8 foot
Sample as Tested Thickness:	0.11 inches
# of Samples as Tested:	3 pieces
Testing Date:	2/3/2026,
Temperature at Test:	72.7 °F
Humidity at Test:	49 %RH
Chamber support Type:	Rod and Screen
Mounting Method:	#N/A
Side of Specimen Tested:	Brick texture down
Color of Specimen	White
Cement Board	1/4-inch fiber cement board placed over specimen
Substrate Material	N/A
Total Fuel Consumed (ft³)	55.00

Section 3: Test Results

3.1 Results

FSI (rounded)	**15**
SDI (rounded)	**250**
Classification	**A**

**See Appendix A for test data sheets.*

3.2 Test Data

Total Area (FT/Min)	**32.4**
FSI (unrounded)	**16.7**
SDI (unrounded)	**232.3**
Time of Ignition	**00:50**
Max Flame Distance 10-min Test (ft)	**3.7**
Time at Max Flame Distance 10-min (mm:ss)	**02:54**
Maximum Smoke Obscurity (%)	**58**
Time at Maximum Smoke (mm:ss)	**04:53**
Maximum Temperature Exposed Thermocouple (°F)	**564**
Time at Maximum Temperature (mm:ss)	**09:13**
Total Duration of Test	**10:00**

3.3 Observations

event	mm:ss	event	mm:ss	event	mm:ss
Discoloration	00:50	Blistering	None	Floor Burning	None
Dripping	01:19	Sagging	None	Charring	None
Afterglow	10:00	Cracking	None	Flaking	None
Afterburn	10:00	Splitting	None	Flaking Embers	None
Bubbling	None	Peeling	None	Flashing	None
Shrinking	None	Melting	None	Falling pieces	None
Warping	None	Flaming Dripping	None	Crackling	None
Other Observations:	The Material ignited at 00:50. Discoloration was observed at 00:50. Dripping was observed at 01:19. Afterglow was observed at 10:00. Afterburn was observed at 10:00. The test specimen remained in place on the chamber ledge for the duration of the test.				

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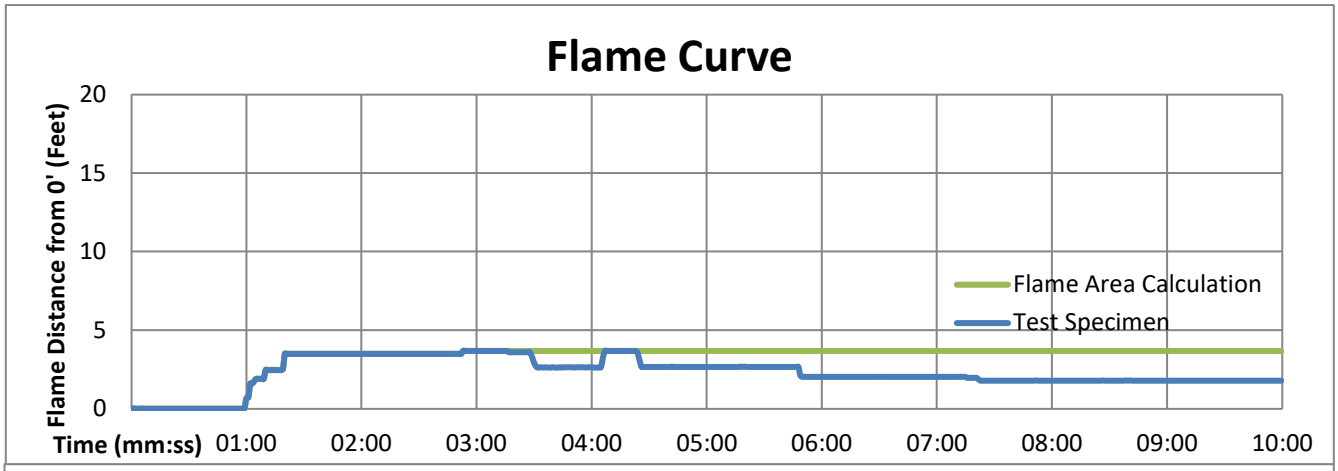
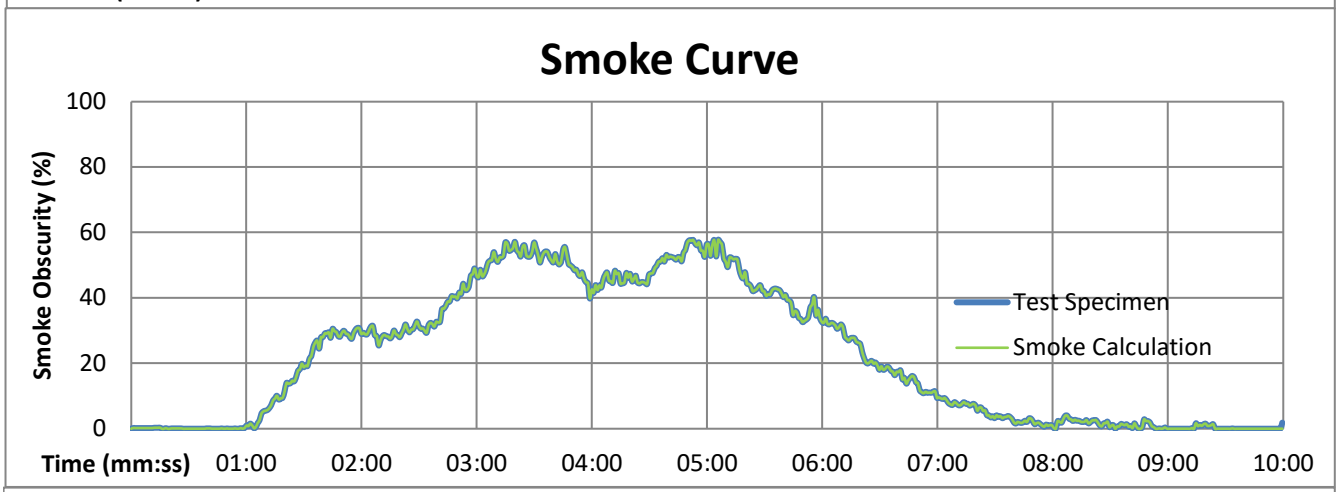
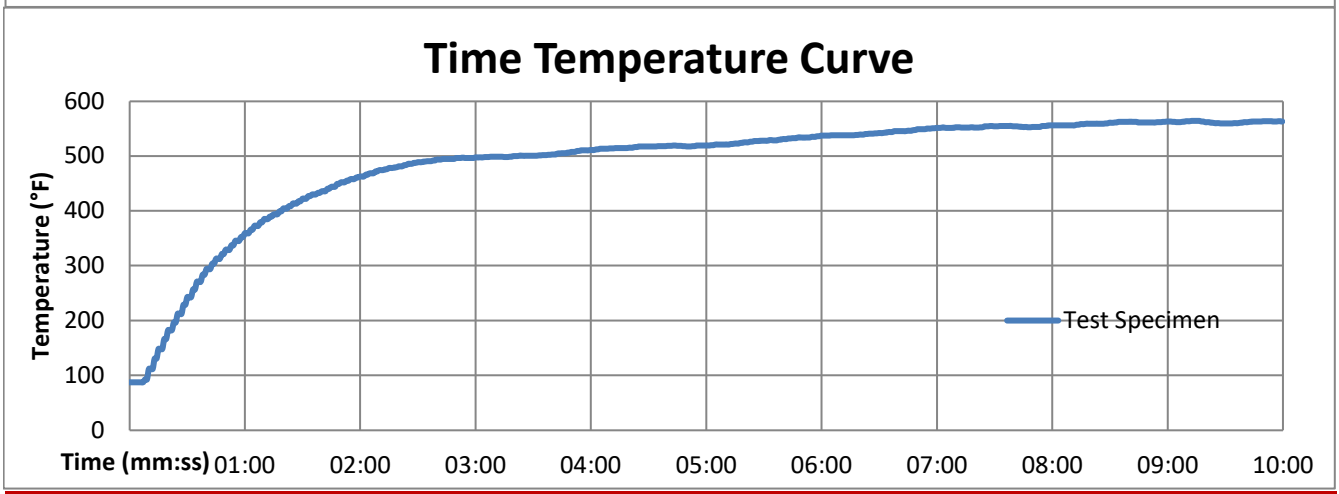
Appendix A - Test Data

Product ID **Symmetrix™ Smart Seam FRP Class "A"**







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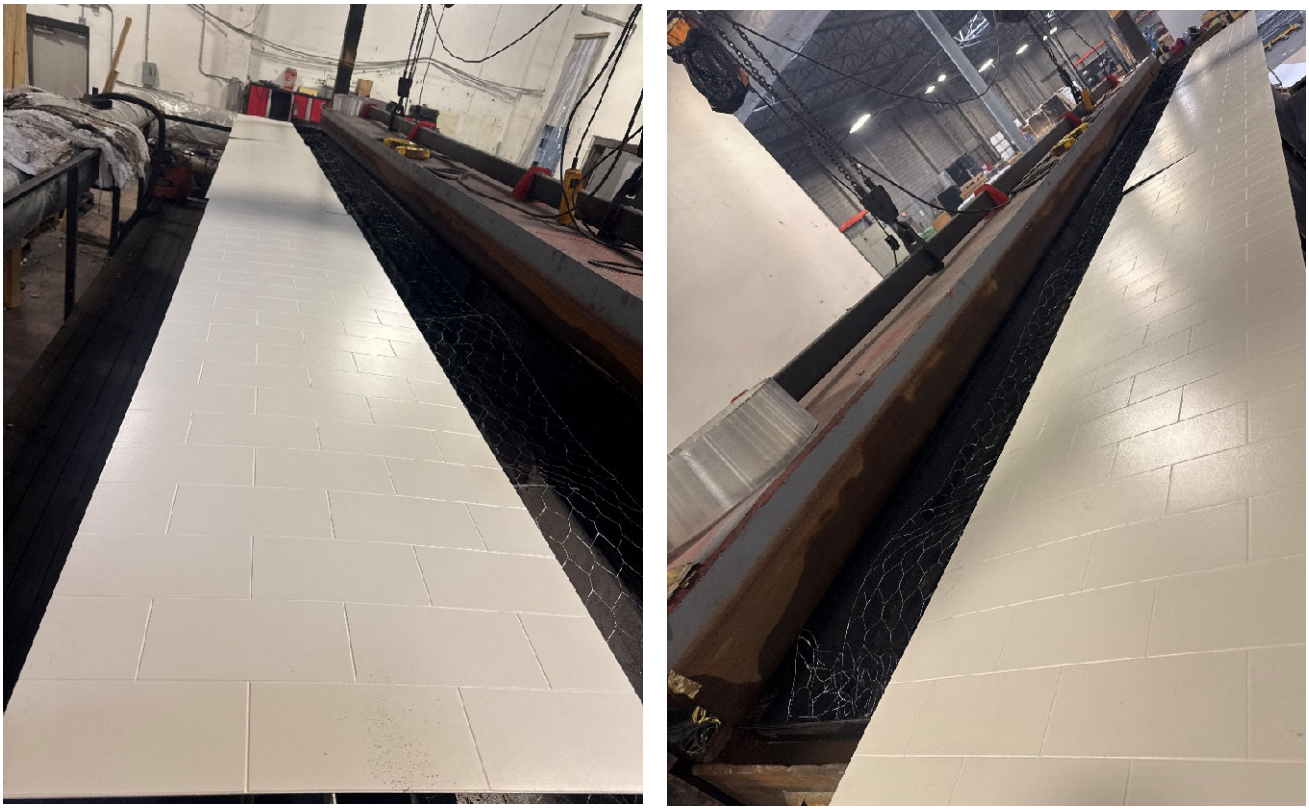
Appendix B - Photographs

Product ID **Symmetrix™ Smart Seam FRP Class "A"**



Photograph No. 1: Test specimen prior to testing showing the entire 24-foot test specimen from the fire exposure chamber's burner end (left), and vent end (right).

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Appendix B - Photographs

Product ID **Symmetrix™ Smart Seam FRP Class "A"**



Photograph No. 2: Test specimen from the test chambers burner end (left), and vent end (right) showing the post 10-minute test sample condition immediately after removal from the test chamber.

>>>END OF TEST EVALUATION>>>

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