

Test Report: RTL1167-1

Client: Therma-HEXX Corp.

Issue Date: 10-14-2025

ASTM E84-24 Fire Test Report

Issued to **Therma-HEXX Corp.**

Product ID **ThermaPANEL**

Scope of Evaluation

Fire Testing to ASTM E84-24 "Standard Method of Test for Surface Burning Characteristics of Building Materials".

Test Report Number

RTL1167-1

Date of Test

10/14/2025, 8:56:06 AM

Report Issued on

October 14, 2025

Record Kept until

October 13, 2029

Report Template Control Number

Test Report; V1.8_09-16-2025

Number of Pages in Report

8



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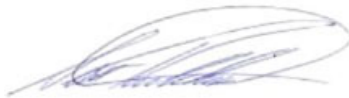
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Report Issued To:Therma-HEXX Corp.
199 Constitution Ave.
Portsmouth, NH 03801
USA**Proposal Number:** SSP-10062025-01**Acceptance Date:** Monday, September 22, 2025**Accepted By:** Robert Barmore**Product ID:** ThermaPANEL
*as stated by client.***Witnesses of Test:** Paulo Hernandez-RTL and Scott Parkhurst-RTL**Test Result:**

Flame Spread Index (FSI)	Smoke Developed Index (SDI)
0	0

See Details of Evaluation on the subsequent pages of this report.*Classification:** A**Prepared by****Name:** Paulo M. Hernandez
Title: Technician
Date: October 14, 2025**Signed for and on the behalf of**
Right Testing Laboratories, LLC.**Scott Parkhurst**
Laboratory Manager
October 14, 2025

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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: Thursday, September 11, 2025**1.3 Sample Condition as Received:** Good**Product ID: (as stated by client)** ThermaPANEL

Sample Type:	Panel	
Sample Received Width:	23	inches
Sample Received Length:	23	inches
Sample Received	1.32	inches
# of Samples Received:	12	pieces

1.4 Sample Conditioning:

Average Temperature:	71.6	°F
Average Humidity:	55.0	%RH
Conditioning Time:	32.8	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 (12) nominally 1.3-inch thick plastic panels with foam. The panel were layed on top of 5/8" Type X gypsum to replicate a "as installed" installation, with the gypsum board facing the flame. 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:	23.25 inches
Sample as Tested Length:	23.25 foot
Sample as Tested Thickness:	1.3205 inches
# of Samples as Tested:	12 pieces
Testing Date:	10/14/2025
Temperature at Test:	0 °F
Humidity at Test:	0 %RH
Chamber support Type:	Chamber Ledge
	#N/A
Mounting Method:	
Side of Specimen Tested:	Smooth Plastic Side
Color of Specimen	Black
Cement Board	1/4-inch fiber cement board placed over specimen
Substrate Material	5/8 inch gypsum board
Total Fuel Consumed (ft ³)	55.00

Section 3: Test Results

3.1 Results

FSI (rounded)	0
SDI (rounded)	0
Classification	A

*See Appendix A for test data sheets.

3.2 Test Data

Total Area (FT/Min)	0.1
FSI (unrounded)	0.0
SDI (unrounded)	0.0
Time of Ignition	None
Max Flame Distance 10-min Test (ft)	0.0
Time at Max Flame Distance 10-min (mm:ss)	00:31
Maximum Smoke Obscurity (%)	0
Time at Maximum Smoke (mm:ss)	00:00
Maximum Temperature Exposed Thermocouple (°F)	554
Time at Maximum Temperature (mm:ss)	09:53
Total Duration of Test	10:00

3.3 Observations

event	mm:ss	event	mm:ss	event	mm:ss
Discoloration	00:37	Sagging	None	Floor Burning	None
Flaking	02:01	Cracking	None	Charring	None
Afterglow	10:00	Splitting	None	Flaking Embers	None
Bubbling	None	Peeling	None	Flashing	None
Shrinking	None	Dripping	None	Falling pieces	None
Warping	None	Melting	None	Crackling	None
Blistering	None	Flaming Dripping	None	Afterburn	None

Other Observations:

The Material ignited at None. Discoloration was observed at 00:37. Flaking was observed at 02:01. Afterglow was observed at 10:00. The test specimen remained in place on the chamber ledge for the duration of the test. All observations of gypsum board only.

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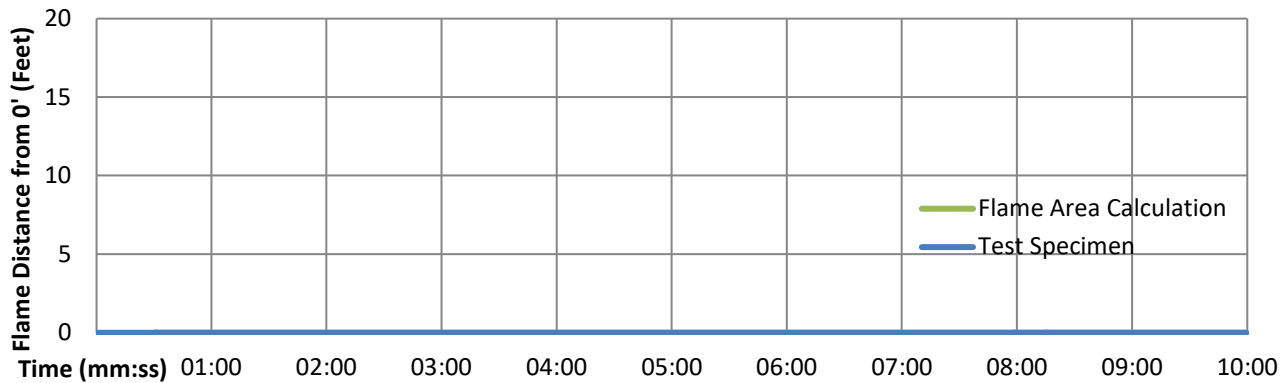
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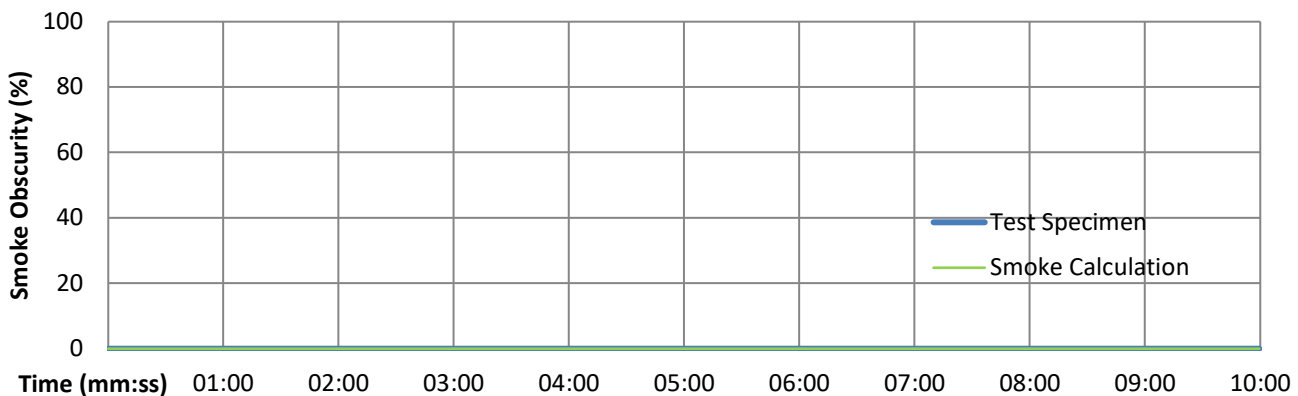
Appendix A - Test Data

Product ID ThermaPANEL

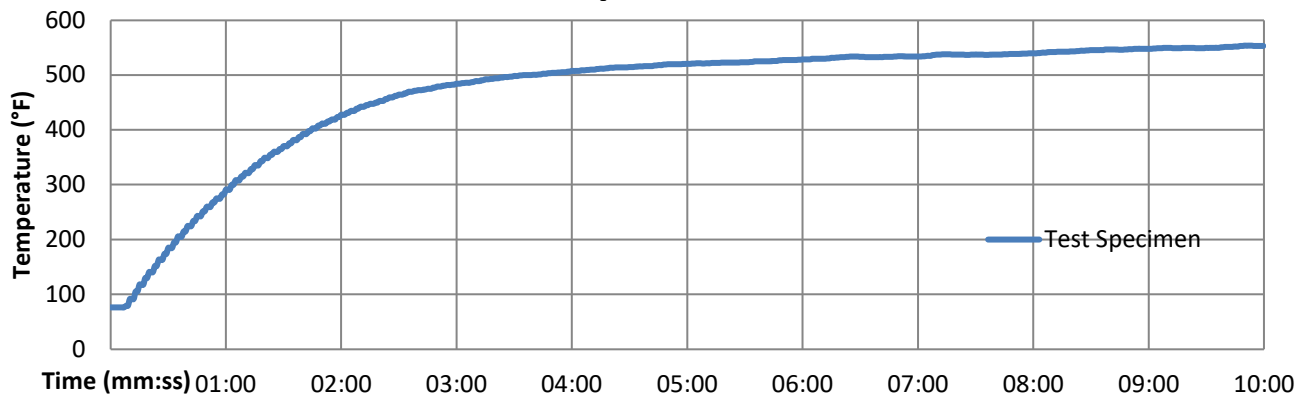
Flame Curve



Smoke Curve



Time Temperature Curve

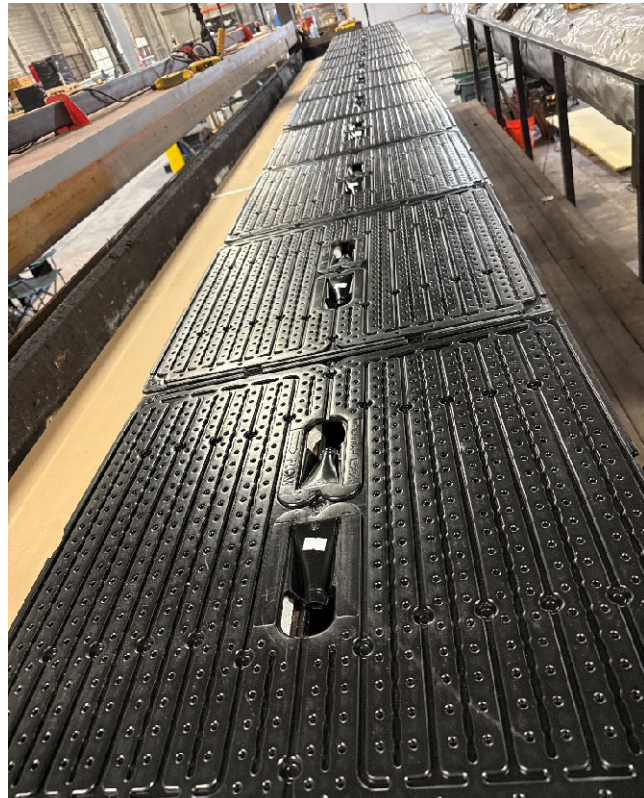


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Appendix B - Photographs

Product ID

ThermaPANEL



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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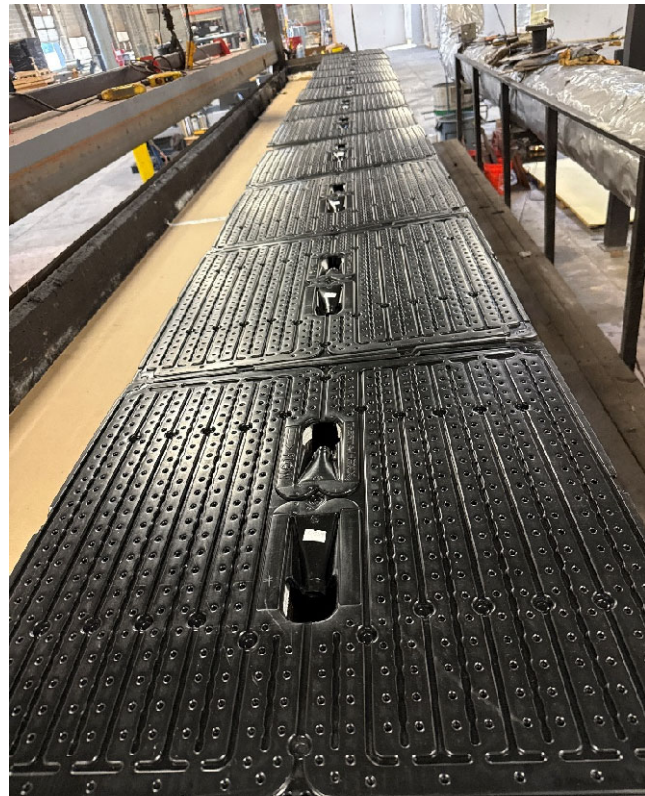
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Appendix B - Photographs

Product ID

ThermaPANEL



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>>>