

# FOCAL POINT, LLC.

# FIRE TEST REPORT

**SCOPE OF WORK**

ASTM E84 TESTING ON FIRE RETARDANT ACOUSTIC SERIES, PET9A-SDG

**REPORT NUMBER**

J3694.01-121-24

**TEST DATE**

03/26/19

**ISSUE DATE**

04/04/19

**REVISION DATE**

04/17/19

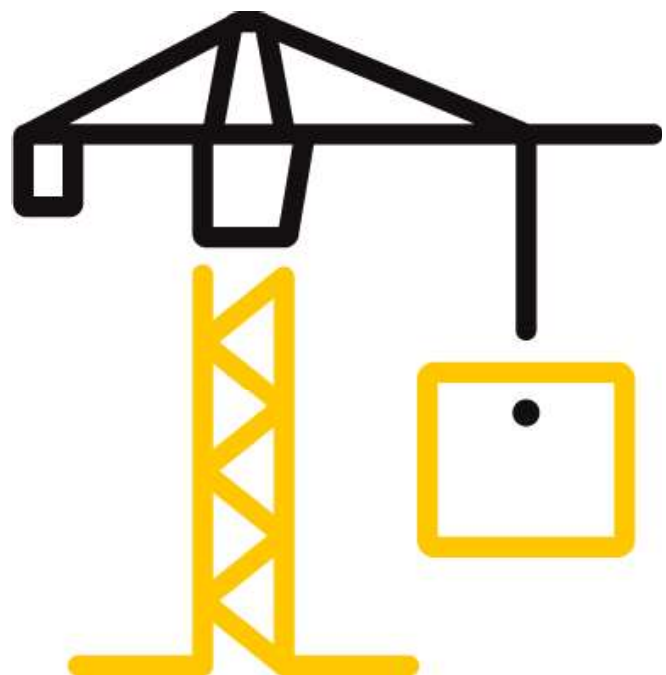
**PAGES**

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**DOCUMENT CONTROL NUMBER**

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## TEST REPORT FOR FOCAL POINT, LLC.

Report No.: J3694.01-121-24

Date: 04/04/19

Revision Date: 04/17/19

### REPORT ISSUED TO

#### FOCAL POINT, LLC.

4141 South Pulaski Road

Chicago, Illinois 60622

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by Focal Point, LLC., Chicago, Illinois to evaluate the flame spread and smoke developed properties of Fire retardant acoustic series PET9A-SDG. 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 performance certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

### SECTION 2

#### SUMMARY OF TEST RESULTS


**Specimen I.D.:** Fire retardant acoustic series, PET9A-SDG


#### ASTM E84 Test Results

FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
0	300

\*See Section 8 for additional information and commentary

For INTERTEK B&C:

**COMPLETED BY:** Ben Samson  
**TITLE:** Technician – Fire Testing  
**SIGNATURE:**   
Digitally Signed by: Benjamin Samson  
**DATE:** 04/17/19

**REVIEWED BY:** Ethan Grove  
**TITLE:** Manager – Fire Testing  
**SIGNATURE:**   
Digitally Signed by: Ethan Grove  
**DATE:** 04/17/19

BTS:ddr

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### SECTION 3

#### TEST METHOD

The specimens were evaluated in accordance with the following:

**ASTM E84-18b**, *Standard Test Method for Surface Burning Characteristics of Building Materials*

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

The test specimen was submitted to Intertek directly from the client. Samples were not independently selected for testing. Intertek has not verified the composition, manufacturing techniques or quality assurance procedures. The specimens, identified as Fire retardant acoustic series, PET9A-SDG, were received in good order.

### SECTION 5

#### LIST OF OBSERVERS

NAME	COMPANY
Ben Samson	Intertek B&C
Scott Gingrich	Intertek B&C

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### SECTION 6

#### TEST PROCEDURE

This report describes the results of testing conducted in accordance with ASTM E84-18b; Standard Test Method for Surface Burning Characteristics of Building Materials. The test method is for comparative surface burning behavior of building materials by determining a flame spread index (FSI) and a smoke developed index (SDI). This test is generally applicable to exposed surfaces, such as finish materials for ceilings or walls, provided that the material or assembly of materials, by its own structural quality or the manner in which it is tested and intended for use, is capable of supporting itself in position or being supported during the test period.

*“The use of supporting materials on the underside of the test specimen may lower the flame spread index from that which might be obtained if the specimen could be tested without such support. This method may not be appropriate for obtaining comparative surface burning behavior of some cellular plastic materials. 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.” – ASTM E84-18b Section 1.3*

The purpose of the method is to determine the relative burning behaviour of the material by observing the flame spread along the specimen. Flame spread and smoke density developed are reported, however, there is not necessarily a relationship between these two measurements.

It is the expressed intent of the test method to provide only comparative measurements of surface flame spread and smoke density of the tested material against measurements for select grade red oak flooring and fiber-cement board when tested under specific fire exposure conditions. The test method exposes a nominal 24-ft (7.32-m) long by 20-in. (508-mm) wide test specimen to a controlled air flow and flaming fire exposure adjusted to produce a specific flame spread distance vs time calibration using select grade red oak flooring.

The test method does not provide information regarding heat transmission through the tested surface, the effect of aggravated flame spread behavior resulting from the proximity of combustible walls and ceilings, or the classification or definition of materials as noncombustible using flame spread index alone.

***This standard should be used to measure and describe the properties of materials, products, or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products, or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use.***

There were no deviations from the requirements prescribed in ASTM E84.

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**SECTION 7**

**TEST SPECIMEN DESCRIPTION**

<b>MANUFACTURER*</b>	N/A
<b>PRODUCT TYPE*</b>	Acoustic fiber felt board
<b>SERIES/MODEL*</b>	Fire retardant acoustic series, PET9A-SDG
<b>COMPOSITION*</b>	Polyethylene terephthalate (PET)
<b>CONDITIONING TIME</b>	72+ hr.
<b>SPECIMEN SIZE</b>	23-3/4 in. wide x 48 in. long
<b>THICKNESS</b>	3/8 in.
<b>SPECIMEN SECTIONS</b>	6
<b>TOTAL WEIGHT</b>	3.1 lbs.
<b>COLOR</b>	Charcoal grey
<b>SIDE TO FLAME*</b>	Client specified material was bilateral
<b>SUPPORT USED*</b>	1/4 in. diameter steel rods spaced every 24 in. on center and 20 gauge, 2-in. (51-mm) hexagonal galvanized steel netting
<b>MOUNTING METHOD</b>	ASTM E84-18b Annexes A4.5, A4.6, A4.8 and A4.8.1
<b>SUBSTRATE USED*</b>	No substrate was utilized
<b>NOTES/ADDITIONAL SAMPLE INFO</b>	N/A
<b>CEMENT BOARD</b>	1/4 in. thick fiber cement board was placed on top of the sample.

\*From the client's material description and/or instructions

**Note:** Specimens were conditioned as per the requirements of Section 6.4 of ASTM E84-18b.

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**SECTION 8**

**TEST RESULTS**

<b>TEST RESULTS</b>	
Test Date	03/26/19
Test Operator	Ben Samson
Flame Spread Index (FSI)	0
Smoke Developed Index (SDI)	300
Red Oak Calibration (% * Min)	95.2

<b>TEST DATA</b>	
FSI (unrounded)	0.0
SDI (unrounded)	297.3
FS * Time Area (Ft * Min)	0.0
Smoke Area (% * Min)	283.1
Fuel Area (°F * Min)	4828.8

<b>TEST OBSERVATIONS</b>	
Ignition Time	00:22 (Min:Sec)
Max Flame Front Advance	0.0 Feet
Time to Max Flame Front	00:00 (Min:Sec)
Max Temp At Exposed T/C	676.9°F
Time To Max Temp	07:19 (Min:Sec)
Dripping Observed	00:22 (Min:Sec)
Flaming On Floor Observed	04:38 (Min:Sec)
After Flame Top Observed	None
After Flame Floor Observed	10:05 (Min:Sec)
Sagging Observed	None
Delamination Observed	None
Shrinkage Observed	None
Fallout Observed	None
Cracking Observed	None
Additional Observations	None

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**SECTION 8 (Continued)****TEST RESULTS****COMMENTARY ON CLASSIFICATION**

Neither ASTM E84 nor UL 723 include classification criteria for the results obtained from testing. The International Building Code® (IBC), NFPA 101: Life Safety Code® (NFPA 101), and NFPA 5000: Building Construction and Safety Code® (NFPA 5000) all describe a set of classification criteria required for interior wall and ceiling finish materials based on Flame Spread Index and Smoke Developed Index when tested in accordance with ASTM E84 or UL 723. The classification criteria for all three model codes is the same:

Class	Flame Spread Index	Smoke Developed Index
A	0-25	0-450
B	26-75	0-450
C	76-200	0-450

Note that classification under this scheme for interior wall and ceiling finishes does not strictly apply to all products or materials tested in accordance with ASTM E84 or UL 723 because not all products or materials are recommended or suitable for use as interior wall or ceiling finish materials in buildings, regardless of the surface burning characteristics. Consult with the product manufacturer and the local authority having jurisdiction (AHJ) regarding specific applications of a given product or material.

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### SECTION 9 PHOTOGRAPHS



**Photo No. 1**  
**Exposed Surface of the Test Specimen (Pre-test)**



**Photo No. 2**  
**Unexposed Surface of the Test Specimen (Pre-test)**



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### SECTION 9 (Continued)

#### PHOTOGRAPHS



**Photo No. 3**

**Unexposed Surface of the Test Specimen (Post-test)**

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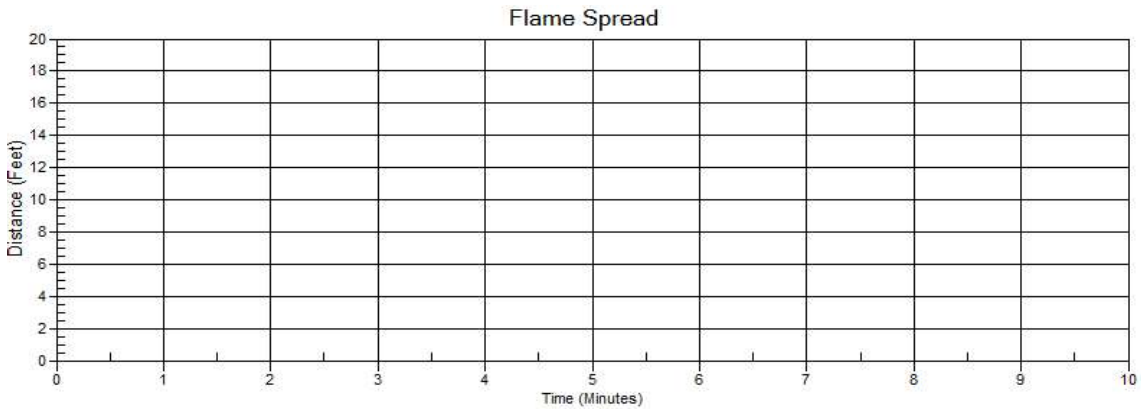
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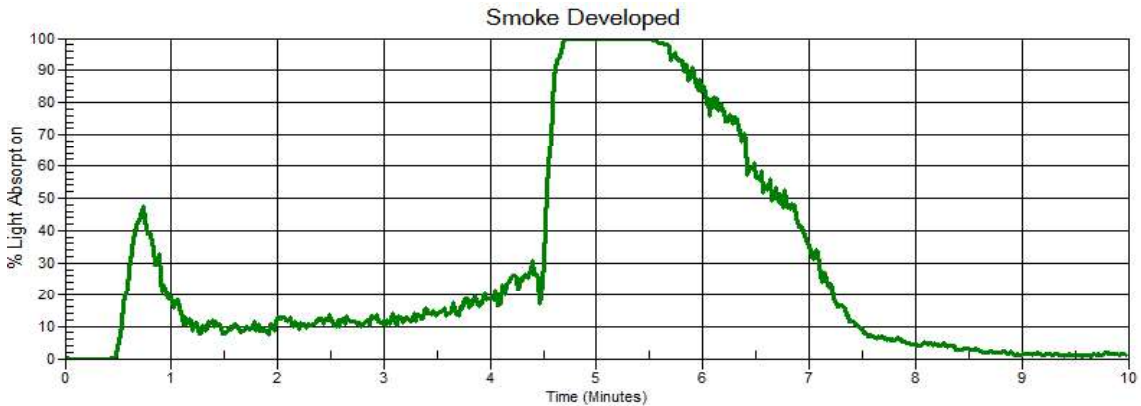
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### SECTION 10

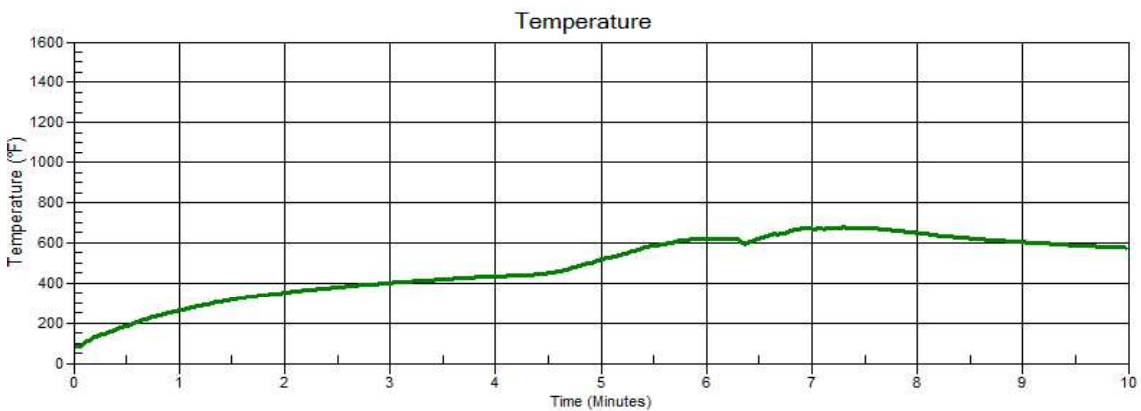
#### GRAPHS



Graph No. 1 - Flame Spread Distance Versus Time



Graph No. 2 - Light Obscuration Versus Time



Graph No. 3 - Tunnel Air Temperature Versus Time