



# Flame Spread Report

Les Produits Évolution Acoustique Inc.

4066, Le Corbusier, Laval, Suite#101  
Quebec, Canada, H7L 5R2  
Canada

Date	September 21, 2021
Report No.	40.00.20580-1
Revision No.	0
Project No.	20580
Product ID	CANETIS Gris Argenté 3/8"

ONE STOP GLOBAL CERTIFICATION SOLUTIONS



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Prepared by:  
Date Issued:  
Project No:

LabTest Certification Inc.  
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## TEST REPORT

### ASTM E84

**Report reference No.** .....: 40.00.20580-1  
**Report Revision History** .....: Rev. 0  
Report Compiled and Evaluated by.....: Kaden Burgart  
Tested by  
(printed name and signature) .....: Kaden Burgart  
Reviewed by  
(printed name and signature) .....: Dan Ichim  
Date of issue.....: September 21, 2021



**Note: By signing this report, both the Testing Technician and the Reviewer hereby declare to abide by the applicable LabTest policies:**

- 1.) Statement of Independence # 3014 (LabTest Employees),
- 2.) Independence, Impartiality, and Integrity #1039, clause 11 (Engineering Service Subcontractors), or
- 3.) Independence, Impartiality, and Integrity #1019, clause 3.5 (Testing Subcontractors).

**Testing Laboratory Name** .....: LabTest Certification Inc.  
Address .....: 205 – 8291 92 Street, Delta, BC, V4G 0A4, Canada

**Test Location Name** .....: LabTest Certification Inc.  
Address .....: 205 – 8291 92 Street, Delta, BC, V4G 0A4, Canada

**Applicant's Name**.....: Les Produits Évolution Acoustique inc.  
Address .....: 4066, Le Corbusier, Laval, Suite#101, Quebec, Canada,  
H7L 5R2, Canada

**Test Standard**.....: ASTM E84  
Test variations .....: N/A

**Test item description** .....: Dark gray acoustic pane  
Manufacturer .....: Les Produits Évolution Acoustique inc.

Product reference ID .....: CANETIS gris argenté 3/8"

**Ratings** .....: **Flame Spread Index - 10**  
**Smoke Developed Index - 105**  
**ASTM E84 Classification - Class A**

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### Testing

Date(s) of receipt of test item ..... : 2021-07-26  
Date(s) of performance of test ..... : 2021-08-18  
**General product information** ..... : Dark gray acoustic pane  
Description..... : CANETIS gris argenté 3/8"  
Intended use and application ..... : Acoustic Pane  
Nominal thickness ..... : 3/8"  
Color ..... : Dark gray  
Section sizes ..... : 12 sheets: 21 inches x 24 inches  
Total sample dimensions per test..... : 21 in. by 24 ft.  
Tunnel mounting..... : Sectioned  
Conditioning Time..... : 3 days at 73.4°F ± 5°F (23°C ± 2.8°C), 50% ± 5% Relative Humidity  
Safety Data Sheet(s) ..... : CAS No. 80595-68-2  
Quality Control Documents ..... : Not provided

### General remarks

**This report does not confirm certification unless appended by a LC Certificate.**

The test results presented in this report relate only to the object(s) tested.  
This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

“(see Enclosure #)” refers to additional information appended to the report.

“(see appended table)” refers to a table appended to the report.

- Throughout this report a comma is used as the decimal separator.
- Throughout this report a period is used as the decimal separator.

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## TEST VERDICTS

Item	Assessment	Result
1.	ASTM E84 – Flame Spread Class	<b>Class A</b>
2.	ASTM E84 – Flame Spread Index	<b>10</b>
3.	ASTM E84 – Smoke Developed Index	<b>105</b>

## TEST EQUIPMENT USED

Type	Equip. No.	Calibration Date		Calibration Certificate No.	Calibration Laboratory
		Last	Due		
Rotary Vane Anemometer	1409	2021-03-30	2022-03-30	1002496894	Precision Metrology
Environmental Logger	1166	2021-03-04	2022-03-04	R0913573	Wescan Calibration
Gas Meter	792	2021-03-03	2022-03-03	13886	Polycontrols
Tape Measure	1407	2021-03-21	2022-03-21	R0921510	Wescan Calibration
Digital Stopwatch	1461	2020-11-06	2022-11-06	R0921482	Wescan Calibration
Draft Manometer	1004	2021-03-03	2022-03-03	R0913574	Wescan Calibration
Gas Manometer	1512	2021-03-18	2022-03-18	R0838607	Wescan Calibration
Calipers	1410	2021-03-31	2022-03-31	R0921509	Wescan Calibration
Scale	1411	2021-03-14	2022-03-14	R0915123	Wescan Calibration
Steiner Test Tunnel	1139	2021-03-30	2022-03-30	1139	Validated by Labtest Certification Inc.

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## **DRAWINGS**

Technical drawings not provided.

## PICTURES



**Figure 1 - Sample before test**





**Figure 2 - Sample after test**



**Figure 3 - Close-up of melted board**



**Figure 4 - Exposed side of remaining board**

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## APPENDIX A – TEST DATA

Project No.:	<u>20580</u>	Date (YYYY-MM-DD):	<u>2021-08-18</u>
Equipment ID#:	<u>1409, 1166, 792, 1407, 1461, 1004, 1512, 1410, 1411, 1139</u>	Env. Temp/Humidity:	<u>23.6°C / 50%RH</u>
Material:	<u>Polyester Fiber</u>	Barometric Pressure:	<u>1021.3 kPa</u>
Sample No(s):	<u>5894</u>	Product reference ID:	<u>CANETIS gris argenté 3/8"</u>

**USE A SEPARATE DATA SHEET FOR EACH MODEL. ALL TEST RESULTS MUST BE TRACEABLE TO THE SN# OF THE TESTED UNIT**

Note: By signing the below, both the Issuer and the Reviewer hereby declare to abide by the applicable LabTest policies:

- 1) Statement of Independence # 3014 (LabTest Employees), or
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Tested By: Kaden Burgart  
Print

  
Signature

Reviewed by: Dan Ichim  
Print

  
Signature

### Surface Burning Characteristics of Building Materials Test

#### METHOD

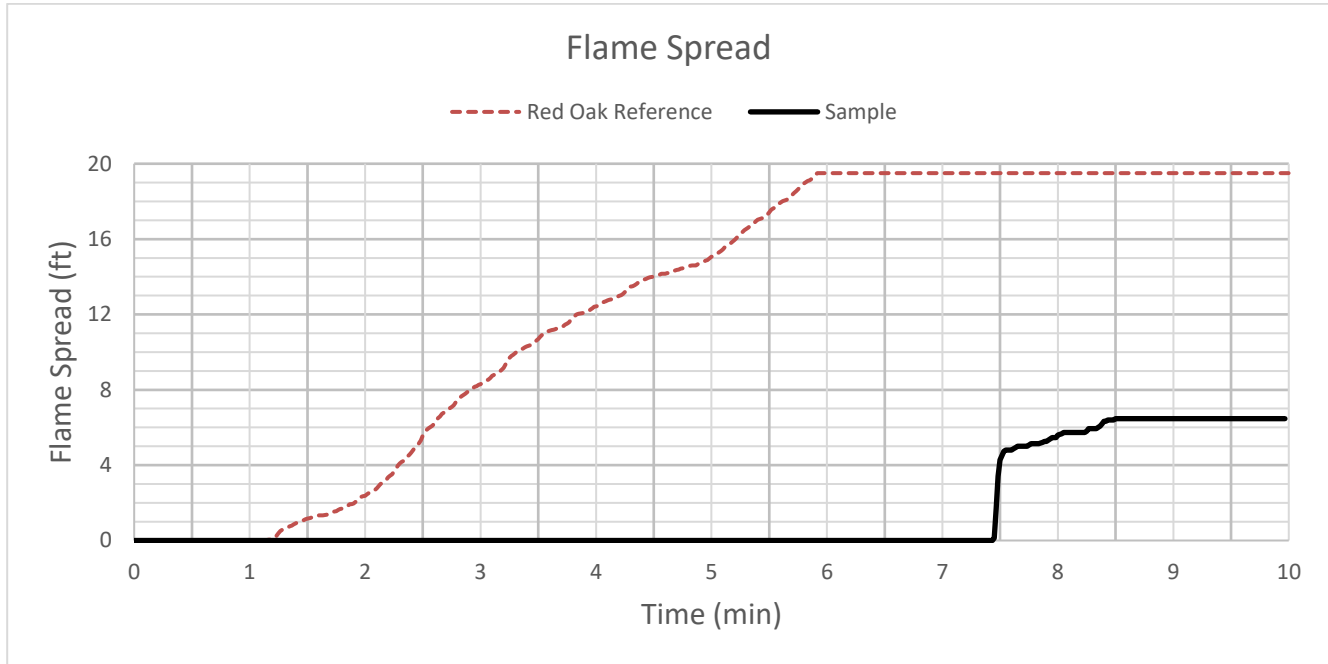
(Standard ASTM E84)  
(Clause 8)

#### 8. Procedure

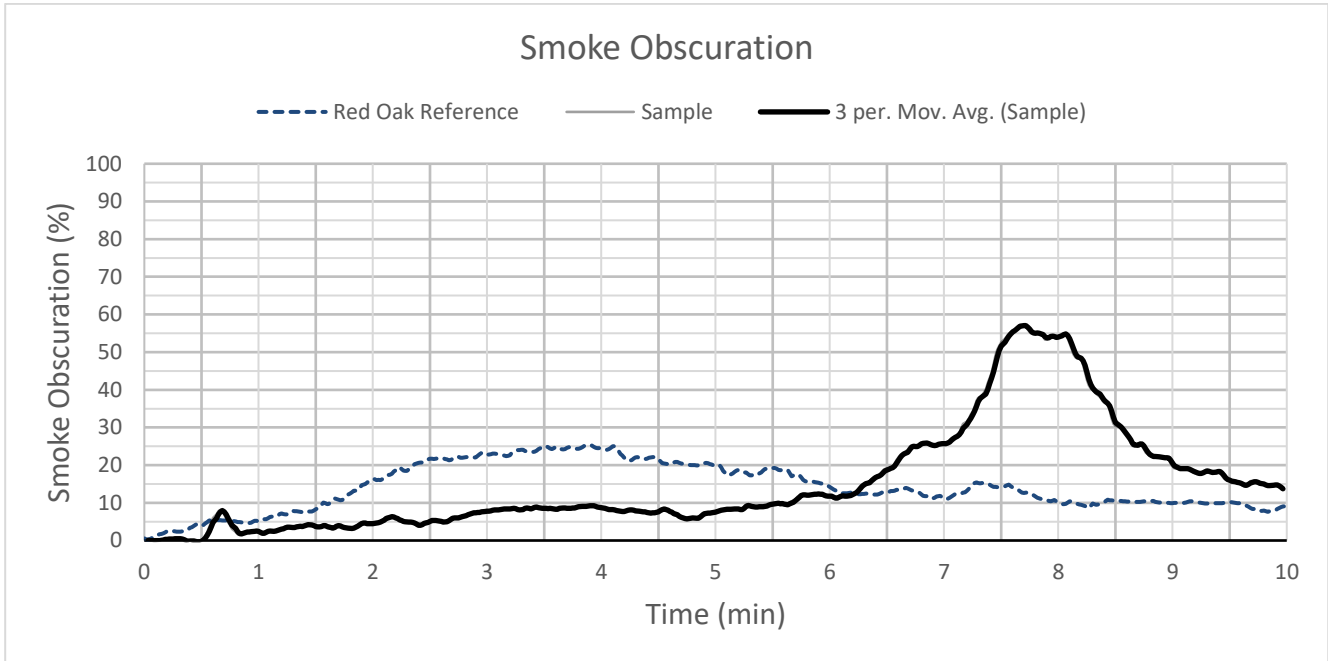
- 8.1 With the furnace draft operating, place the test specimen on the test chamber ledges that have been completely covered with nominal 1/8" (3.2mm) thick by 1½" (38mm) wide woven gasketing tape. Place the specimen as quickly as is practical. Place the removable top in position over the specimen.
- 8.2 Keep the completely mounted specimen in position in the chamber with the furnace draft operating for 120 ±15 s prior to the application of the test flame.
- 8.3 Ignite the burner gas. Observe and record the distance and time of maximum flame front travel with the room darkened. Continue the test for a 10 minutes period. Termination of the test prior to 10 minutes is permitted if the specimen is completely consumed in the fire area and no further progressive burning is evident and the photoelectric cell reading has returned to the baseline.
- 8.4 Record the photoelectric cell output immediately prior to the test and at least every 2 seconds during the test.
- 8.5 Record the gas pressure, the pressure differential across the orifice plate, and the volume of gas used in each test. If a temperature and pressure compensating mass flow meter device is used to monitor the gas flow, record only the volume of gas.
- 8.6 When the test is ended, shut off the gas supply, observe moldering and other conditions within the test duct, and remove the specimen for further examination.
- 8.7 Plot the flame spread distance, temperature, and change in photoelectric cell readings for the duration of the test for use in determining the flame-spread and smoke-developed indexes as outlined in Section 9. Flame

front advancement shall be recorded at the time of occurrence or at least every 30 seconds if no advancement is noted. Flame spread distance shall be determined as the observed distance minus 4 ½ ft (1.37 meters).

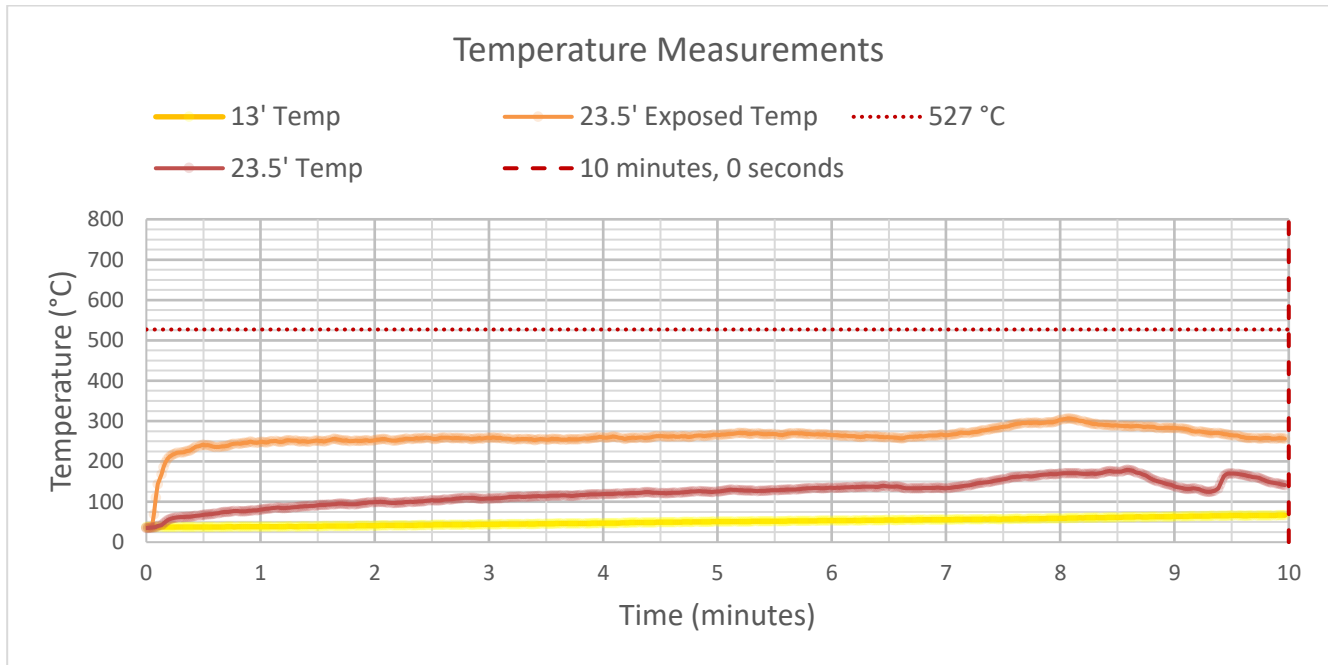
**Test Data**



Flame Spread Value	
FS area under the curve [ft x min] .....	: 15.1
FSV formula for area less than [97.5 ft x min] .....	: 7.8
Flame Spread Index (no rounding).....	: 7.8
<b>Flame Spread Index</b> .....	<b>: 10</b>
<b>ASTM E84 Class</b> .....	<b>: Class A</b>



<b>Smoke Obscuration</b>	
Area under the obscuration curve [% x sec] .....	9109
Red Oak Calibration Area [% x sec] .....	8507
Smoke Developed Index (no rounding) .....	107.1
<b>Smoke Developed Index .....</b>	<b>105</b>



**Time to 527°C at the exposed thermocouple: Temperature not reached.**

**Observations:**

The ignition of the material: 19 seconds.  
The flame did not reach the end of the tunnel.  
The sample melted before it was able to effectively propagate the flame.

**Final Result:**

- Flame Spread Index: 7.8
- Smoke Development Index: 107.1

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## APPENDIX B – IEC/ISO 17025:2005 ACCREDITATION CERTIFICATE

For complete scope of certification use: <https://www.iasonline.org/wp-content/uploads/2017/05/TL-367-cert-New.pdf>

**END OF REPORT**