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PPANEL CANADA INC.

TEST REPORT

SCOPE OF WORK
REPORT OF TESTING 6MM THICK PPANEL AK SERIES FELT PET ACOUSTIC PANELS FOR COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CRITERIA: S102.2-18 STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF FLOORING, FLOOR COVERING, AND MISCELLANEOUS MATERIALS AND ASSEMBLIES.

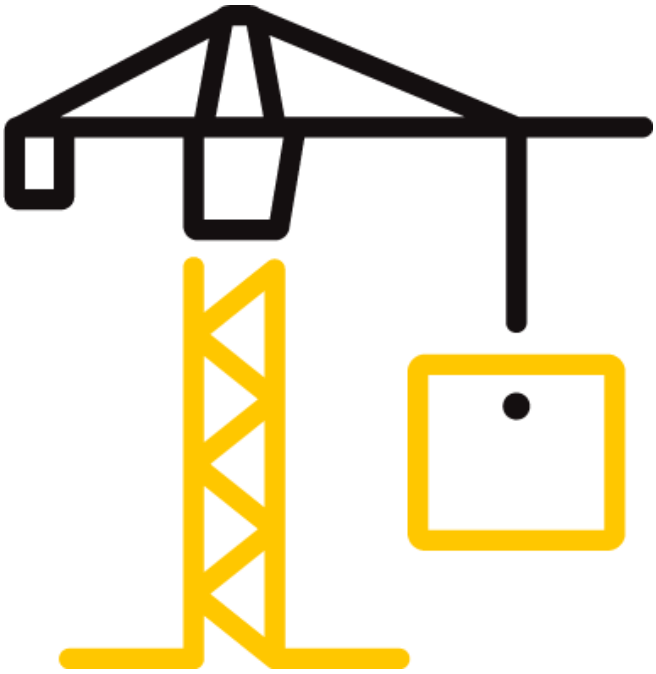
REPORT NUMBER
G105801201COQ-001 R1

TEST DATE(S)
05/02/24 - 05/03/24

ISSUE DATE
06/03/24

PAGES
16

DOCUMENT CONTROL NUMBER
GFT-OP-10c (09/29/20)



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TEST REPORT FOR PPANEL CANADA INC.
Report No.: G105801201COQ-001 R1
Date: 06/03/24

REPORT ISSUED TO

PPANEL CANADA INC.
201 38 AVENUE NE
CALGARY, AB T2E 2M3
CANADA

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by PPanel Canada Inc. 201 - 38 Avenue NE Calgary, AB T2E 2M3 Canada to perform testing in accordance with S102.2-18 Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies., on their 6mm thick PPanel AK Series Felt PET Acoustic Panels. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek Testing Services NA Ltd. (Intertek) test facility at 1500 Brigantine Drive Coquitlam, BC Canada.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called “Shared Risk approach,” of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

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 (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

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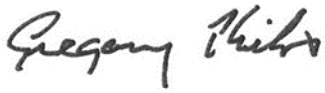
SECTION 2
SUMMARY OF TEST RESULTS

The samples of 6mm thick PPanel AK Series Felt PET Acoustic Panels submitted by PPanel Canada Inc. were tested in accordance with S102.2-18 Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies.

The product test results are presented in Section 10 of this report.

For INTERTEK B&C:

COMPLETED BY:	Sean Fewer	**REVIEWED BY:**	Greg Philp
TITLE:	Technician B&C	**TITLE:**	Reviewer- B&C
SIGNATURE:		**SIGNATURE:**	
DATE:	05/03/24	**DATE:**	05/03/24

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SECTION 3
TEST METHOD(S)

The specimens were evaluated in accordance with the following:

S102.2-18 Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies.

SECTION 4
MATERIAL SOURCE/INSTALLATION

Samples were submitted to Intertek directly from the client and were not independently selected for testing and Intertek accepts no responsibility for any inaccuracies provided.

The test samples were received by the test facility on 04/26/2024 (Coquitlam ID# VAN2404261507-001).

SECTION 5
EQUIPMENT

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
WH2189	Photocell	Huygen 856	05/16/24
WH 2190	Smoke Opacity Meter	Huygen	05/16/24
WH 1052	Data Logger	Phidgets DAQ 2020	11/06/24
WH 2190	FS Tunnel	N/A	12/11/24

SECTION 6
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Sean Fewer	Intertek B&C

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SECTION 7
TEST CALCULATIONS

The results of the tests are expressed by indexes, which compare the characteristics of the sample under tests relative to that of select grade red oak flooring and inorganic-cement board.

(A) Flame Spread Rating:

This index relates to the rate of progression of a flame along a sample in the 7620 mm tunnel. A natural gas flame is applied to the front of the sample at the start of the test and drawn along the sample by a draft kept constant for the duration of the test. An observer notes the progression of the flame front relative to time.

The test apparatus is calibrated such that the flame front for red oak flooring passes out the end of the tunnel in five minutes, thirty seconds (plus or minus 15 seconds).

(B) Smoke Developed:

A photocell is used to measure the amount of light, which is obscured by the smoke passing down the tunnel duct. When the smoke from a burning sample obscures the light beam, the output from the photocell decreases. This decrease with time is recorded and compared to the results obtained for red oak, which is defined to be 100.

SECTION 8
TEST SPECIMEN DESCRIPTION

Upon receipt of the samples at the Intertek Coquitlam laboratory they were placed in a conditioning room where they remained in an atmosphere of 23 ± 3°C (73.4 ± 5°F) and 50 ± 5% relative humidity.

The sample material was identified by the client as "Polypropylene wall panels with a finished layer used as an architectural decorative Felt PET Acoustic wall Panels.

For each trial run, 444 mm wide by 7315 mm of sample material was placed on the floor of the tunnel. A layer of 6mm reinforced cement board was placed on the upper ledges of the tunnel, the tunnel lid was lowered into place, and the samples were then tested in accordance with CAN/ULC S102.2-18 at a room temperature of 21 °C and 53% humidity.

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SECTION 9
TEST RESULTS

(A) Flame Spread

The resultant flame spread ratings are as follows:
(Rating rounded to nearest 5)

6mm thick PPanel AK Series Felt PET Acoustic Panels	Flame Spread	Flame Spread Rating
Run 1	87	90
Run 2	91	
Run 3	92	

(B) Smoke Developed

The areas beneath the smoke developed curve and the related classifications are as follows:
(Classification rounded to nearest 5)

6mm thick PPanel AK Series Felt PET Acoustic Panels	Smoke Developed	Smoked Developed Classification
Run 1	315	315
Run 2	325	
Run 3	299	

Observations

During the test runs, surface ignition occurred between 134 and 147 seconds. The flame then began to progress along the sample length until it reached the maximum flame spread. This was the case for all three test runs.

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SECTION 10
CONCLUSION

The samples of 6mm thick PPanel AK Series Felt PET Acoustic Panels submitted by PPanel Canada Inc. exhibited the following flame spread characteristics when tested in accordance with S102.2-18 Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies.

A series of three test runs of material was conducted to conform to the requirements of the National Building Code of Canada.

Sample Material	Flame Spread Rating	Smoke Developed Classification
6mm thick PPanel AK Series Felt PET Acoustic Panels	90	315

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

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SECTION 11

TEST DATA (6 PAGES)

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TEST REPORT FOR PPANEL CANADA INC.
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Date: 06/03/24

CAN/ULC S102.2-18 DATA SHEETS
Run 1

Standard: ULC S102.2

Lab ID: Intertek Coquitlam Fire Laboratory
Client: PPanel Canada Inc.
Date: 02 May 2024
Project Number: 105801201
Test Number: 1
Operator: Sean Fewer

Specimen ID and Description:

Polypropylene wall panel

21C 49 RH

TEST RESULTS

FLAMESPREAD INDEX: 87.000
SMOKE DEVELOPED INDEX: 315.000

SPECIMEN DATA

Time to Ignition (sec): 145.671
Time to Max Flame Spread (min): 3.795
Maximum Flame Spread (mm): 5.940
Time to 527 C / 980 F (sec): 4.795
Max Temperature (deg F or C as per test standard): 589.530
Time to Max Temperature (sec): 359.671
Total Fuel Burned (cubic feet): 43.465

Flame Spread*Time Area (M*min): 40.622
Smoke Area (%A*min): 464.027
Unrounded FSI: 87.334
Unrounded SDI: 314.913

CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 9.961

Calibrated Smoke Area (%A*min): 147.351

15 point Heptane average for E84-19b
5 point Red Oak average for S102

Tested by: SF Reviewed by: OP

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TEST REPORT FOR PPANEL CANADA INC.
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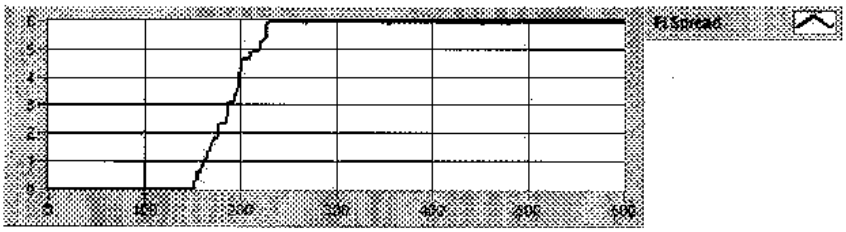
Date: 06/03/24

CAN/ULC S102.2-18 DATA SHEETS
Run 1

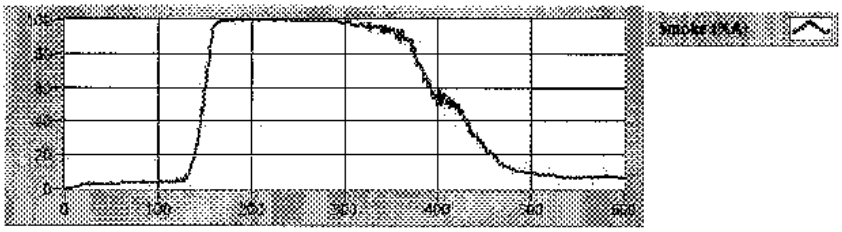
Client: PPanel.Canada Inc. Project Number: 105801201

Test Number: 1 Test Standard: ULC S102.2

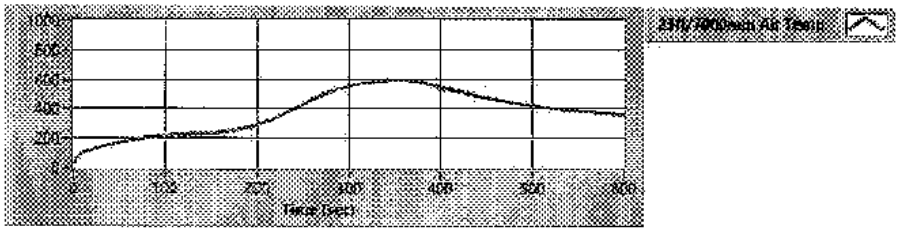
FLAME SPREAD



SMOKE (%A)



TEMPERATURE



Tested by: SF Reviewed by: GP

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TEST REPORT FOR PPANEL CANADA INC.
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CAN/ULC S102.2-18 DATA SHEETS
Run 2

Standard: ULC S102.2

Lab ID: Intertek Coquitlam Fire Laboratory
Client: PPanel Canada Inc.
Date: 02 May 2024
Project Number: 105801201
Test Number: 2
Operator: Sean Fewer

Specimen ID and Description:

Polypropylene wall panel

TEST RESULTS

FLAMESPREAD INDEX: 91.000
SMOKE DEVELOPED INDEX: 325.000

SPECIMEN DATA

Time to Ignition (sec): 147.400
Time to Max Flame Spread (min): 3.326
Maximum Flame Spread (mm): 5.940
Time to 527 C / 980 F (sec): 4.710
Max Temperature (deg F or C as per test standard): 666.214
Time to Max Temperature (sec): 352.589
Total Fuel Burned (cubic feet): 43.324

Flame Spread*Time Area (M*min): 41.366
Smoke Area (%A*min): 478.688
Unrounded FSI: 90.938
Unrounded SDI: 324.863

CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 9.960

Calibrated Smoke Area (%A*min): 147.351

15 point Heptane average for E84-19b
5 point Red Oak average for S102

Tested by: SF Reviewed by: SP

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TEST REPORT FOR PPANEL CANADA INC.
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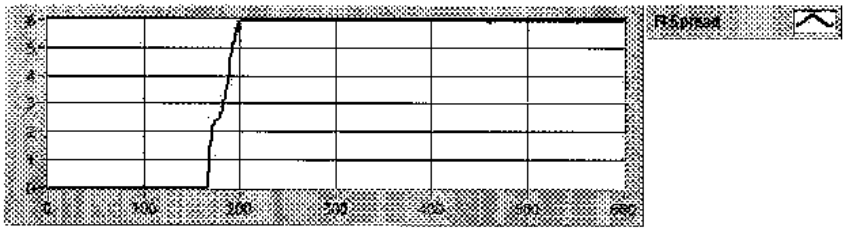
CAN/ULC S102.2-18 DATA SHEETS
Run 2

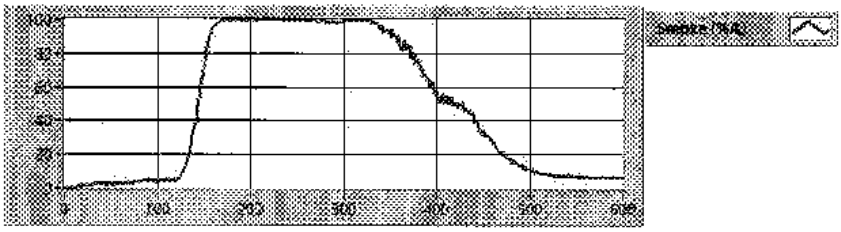
Client: PPanel Canada Inc. Project Number: 105801201

Test Number: 2 Test Standard: ULC S102.2

FLAME SPREAD



SMOKE (%A)



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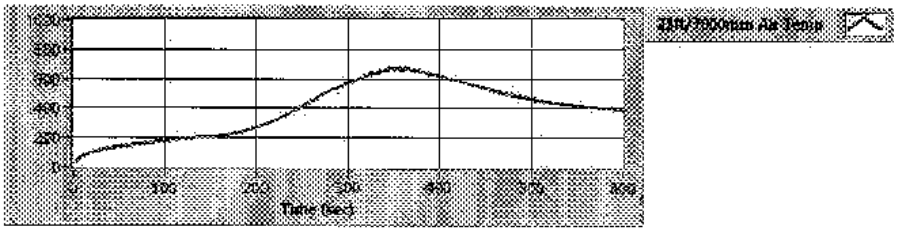

Tested by: SF Reviewed by: GP

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TEST REPORT FOR PPANEL CANADA INC.
Report No.: G105801201COQ-001 R1
Date: 06/03/24

CAN/ULC S102.2-18 DATA SHEETS
Run 3

Standard: ULC S102.2

Lab ID: Intertek Coquitlam Fire Laboratory
Client: PPanel Canada Inc.
Date: 03 May 2024
Project Number: 105801201
Test Number: 3
Operator: Sean Fewer

Specimen ID and Description:

6mm thick PPanel AK Series PET Panels

TEST RESULTS

FLAMESPREAD INDEX: 92.000
SMOKE DEVELOPED INDEX: 299.000

SPECIMEN DATA

Time to Ignition (sec): 14.103
Time to Max Flame Spread (min): 3.752
Maximum Flame Spread (mm): 5.940
Time to 527 C / 980 F (sec): 4.652
Max Temperature (deg F or C as per test standard): 601.081
Time to Max Temperature (sec): 315.102
Total Fuel Burned (cubic feet): 43.468

Flame Spread*Time Area (M*min): 41.591
Smoke Area (%A*min): 440.309
Unrounded FSI: 92.089
Unrounded SDI: 298.817

CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 9.968

Calibrated Smoke Area (%A*min): 147.351

15 point Heptane average for E84-19b
5 point Red Oak average for S102

Tested by: SP Reviewed by: GP

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TEST REPORT FOR PPANEL CANADA INC.
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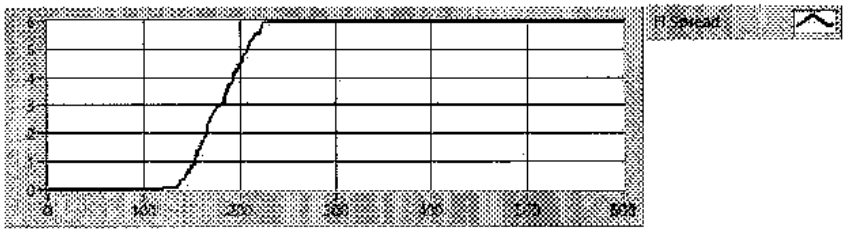
Date: 06/03/24

CAN/ULC S102-18 DATA SHEETS
Run 3

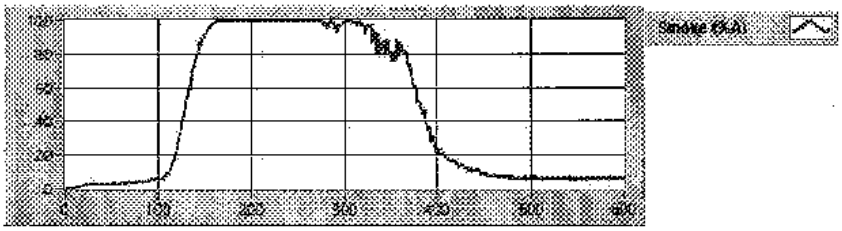
Client: PPanel Canada Inc. Project Number: 105801201

Test Number: 3 Test Standard: ULC S102.2

FLAME SPREAD



SMOKE (%A)



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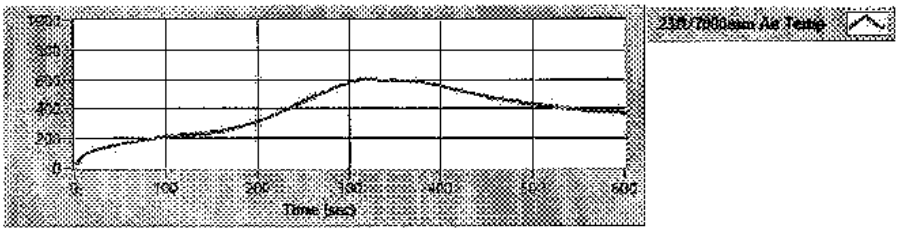

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SECTION 12
PHOTOGRAPHS

Photo No. 1
Pre-Test

Photo No. 2
Post Test

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SECTION 13

REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	06/03/24	N/A	Original Report Issue
1	06/03/24	all	Client name/address change