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10665819 CANADA INC.

TEST REPORT

REPORT ISSUED TO
10665819 Canada Inc.
7301 East Danbro Crescent
Mississauga, ON L5N6P8

SCOPE OF WORK
Report of Spray Cork VIPEQ F08 applied to ½ in. thick cement bonded calcium silicate-based insulation board for compliance with the applicable requirements of the following criteria: CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

REPORT NUMBER
103636641COQ-002

ISSUE DATE
09-January -2019
PAGES
15

DOCUMENT CONTROL NUMBER
GFT-OP-10b (13-March-2017)

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TEST REPORT FOR 10665819 CNADA INC.

Report No.: 103636641
Date: January 9, 2019

CONCLUSION

The samples of Spray Cork VIPEQ F08 applied to ½ in. thick cement bonded calcium silicate-based insulation board, submitted by 10665819 Canada Inc., were tested in accordance with CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

The product test results are presented in Section 7 of this report.

Sean Fewer
TECHNICIAN
BUILDING PRODUCTS

Greg Philp
REVIEWER
BUILDING PRODUCTS CANADA

SECTION 1
INDEX

SECTION 2
OBJECTIVE

Intertek Testing Services NA Ltd. (Intertek) has conducted testing for 10665819 Canada Inc., to evaluate the surface burning characteristics of Spray Cork VIPEQ F08 applied to ½ in. thick cement bonded calcium silicate-based insulation board. Testing was conducted in accordance with the standard methods of CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

This evaluation began January 7, 2019 and was completed January 7, 2019.

SECTION 3
SAMPLE SELECTION

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 sample materials were received at the Evaluation Center on December 21, 2018.

SECTION 4
SAMPLE ASSEMBLY AND 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 panels consisted of ½ in. thick coated cement board panels Each panel measured ½ in. thick by 24 in. wide by 4 ft. long and was described by the client as “Spray Cork VIPEQ F08 applied to ½ in. thick cement bonded calcium silicate-based insulation board”.

For each trial run, 24 in. wide by 24 ft. of sample material were placed on the upper ledge of the flame spread tunnel to form the required 24 ft. sample length. A layer of 6 mm reinforced cement board was placed over top of the samples, the tunnel lid was lowered into place, and the samples were then tested in accordance with CAN/ULC S102-18.

SECTION 5
TESTING AND EVALUATION METHODS

TEST STANDARD

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 25 foot 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 6
RESULTS AND OBSERVATIONS

(A) Flame Spread

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

Spray Cork VIPEQ F08	Flame Spread	Flame Spread Rating
Run 1	0	0
Run 2	0	
Run 3	0	

(B) Smoke Developed

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

Spray Cork VIPEQ F08	Smoke Developed	Smoked Developed Classification
Run 1	7	10
Run 2	10	
Run 3	10	

(C) Observations

During the test runs, there was no visible surface ignition.

SECTION 7

CONCLUSION

The samples of Spray Cork VIPEQ F08 applied to ½ in. thick cement bonded calcium silicate-based insulation board submitted by 10665819 Canada Inc., exhibited the following flame spread characteristics when tested in accordance with CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building 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
Spray Cork VIPEQ F08	0	10

The conclusions of this test report may be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

SECTION 8

APPENDIX A: TEST DATA (6 PAGES)

CAN/ULC S102-18 DATA SHEETS
Run 1

Standard: ULC S102

Client: Vipeq Canada
Date: 01 07 2019
Project Number: 103636641
Test Number: 1
Operator: Sean Fewer

Specimen ID: 1/2 in. thick thermal cork shield

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 10

SPECIMEN DATA . . .

Time to Ignition (sec): 0
Time to Max FS (sec): 0
Maximum FS (mm): 0.0
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 262
Time to Max Temperature (sec): 596
Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 0.0
Smoke Area (%A*min): 12.7
Unrounded FSI: 0.0
Unrounded SDI: 7.6

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 40.0
Red Oak Smoke Area (%A*min): 167.5

Tested By: SF

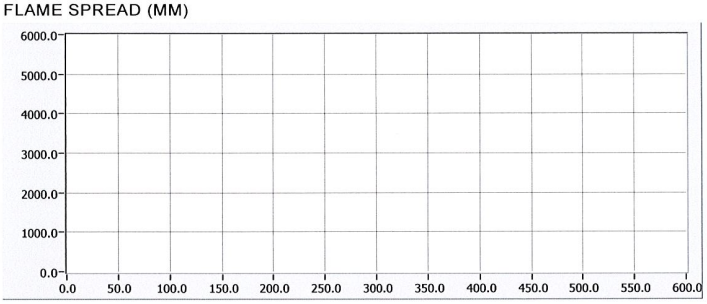
Reviewed By:

CAN/ULC S102-18 DATA SHEETS
Run 1

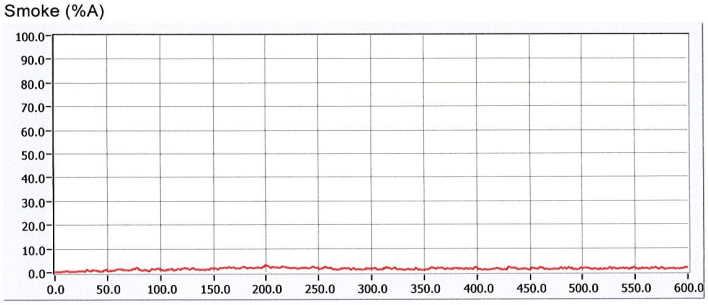
Client: Vipeq Canada Specimen ID: 1/2 in. thick thermal cork shield

Test No.: 1 Standard: ULC S102

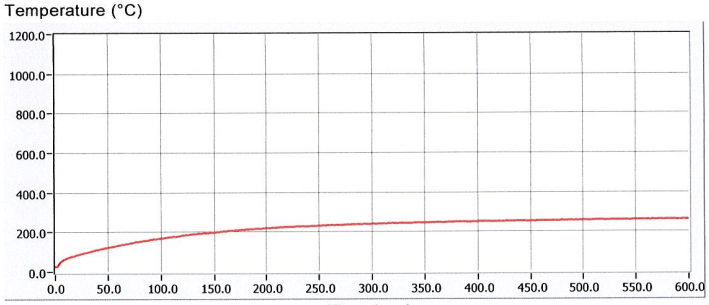
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: SF Reviewed By:

CAN/ULC S102-18 DATA SHEETS
Run 2

Standard: ULC S102

Client: Vipeq Canada
Date: 01 07 2019
Project Number: 103636641
Test Number: 2
Operator: Sean Fewer

Specimen ID: 1/2 in. thick thermal cork shield

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 10

SPECIMEN DATA . . .

Time to Ignition (sec): 0
Time to Max FS (sec): 0
Maximum FS (mm): 0.0
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 264
Time to Max Temperature (sec): 576
Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 0.0
Smoke Area (%A*min): 17.3
Unrounded FSI: 0.0
Unrounded SDI: 10.3

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 40.0
Red Oak Smoke Area (%A*min): 167.5

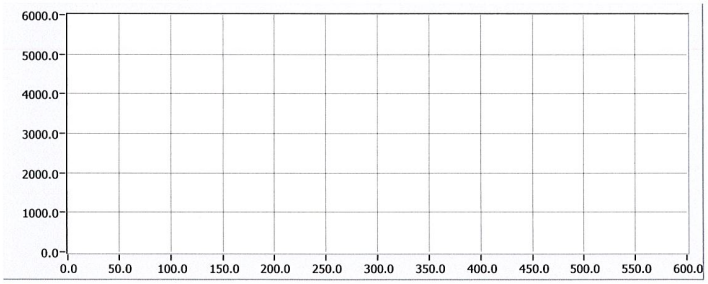
Tested By: SF Reviewed By: _____

CAN/ULC S102-18 DATA SHEETS
Run 2

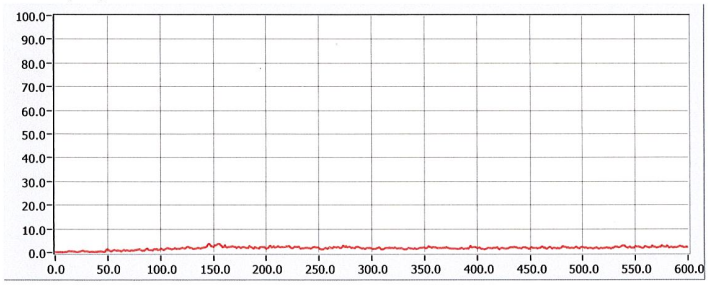
Client: Vipeq Canada Specimen ID: 1/2 in. thick thermal cork shield

Test No.: 2 Standard: ULC S102

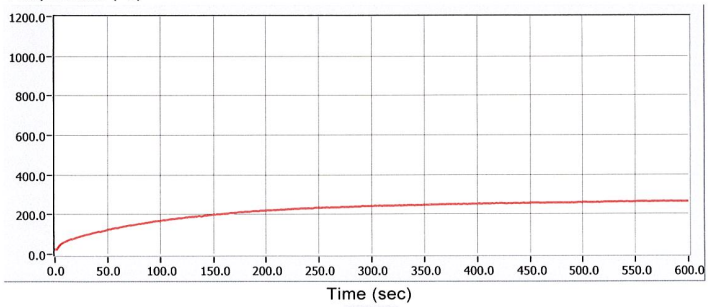
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: SF Reviewed By: _____

CAN/ULC S102-18 DATA SHEETS
Run 3

Standard: ULC S102 Page 1 of 2

Client: Vipeq Canada
Date: 01 07 2019
Project Number: 103636641
Test Number: 3
Operator: Sean Fewer

Specimen ID: 1/2 in. thick thermal cork shield

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 10

SPECIMEN DATA . . .

Time to Ignition (sec): 0
Time to Max FS (sec): 0
Maximum FS (mm): 0.0
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 263
Time to Max Temperature (sec): 584
Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 0.0
Smoke Area (%A*min): 16.9
Unrounded FSI: 0.0
Unrounded SDI: 10.1

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 40.0
Red Oak Smoke Area (%A*min): 167.5

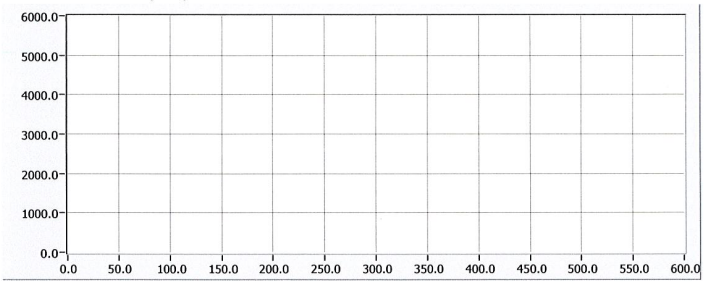
Tested By: SF Reviewed By: _____

CAN/ULC S102-18 DATA SHEETS
Run 3

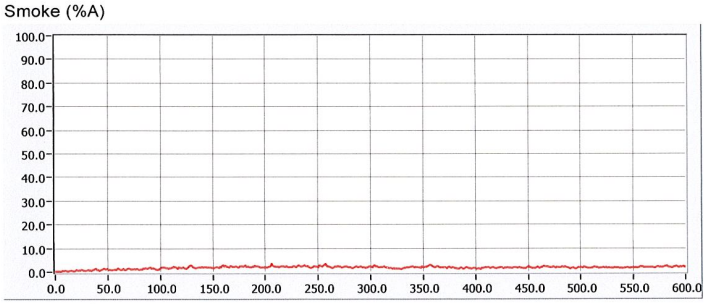
Client: Vipeq Canada Specimen ID: 1/2 in. thick thermal cork shield

Test No.: 3 Standard: ULC S102

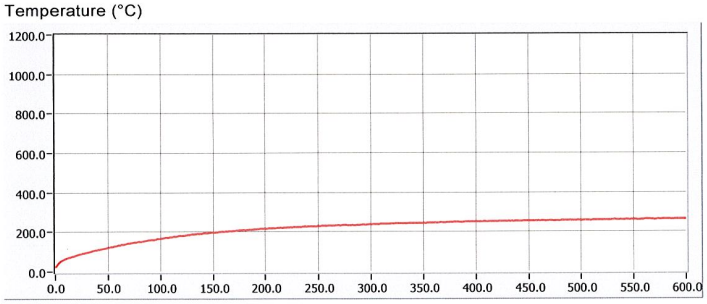
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: SF Reviewed By: _____

REVISION SUMMARY

DATE	PAGE	SUMMARY
January 9, 2019	All	Original Issue Date