

# CANADIAN FIBRE CEMENT TEST REPORT

## SCOPE OF WORK

REPORT OF TESTING ON 8MM THICK CFC HIGH DENSITY CEMENT BOARD PANEL (COLORED) 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

106015395COQ-001A R0

## TEST DATE(S)

11/13/24 - 11/13/24

## ISSUE DATE

11/19/24

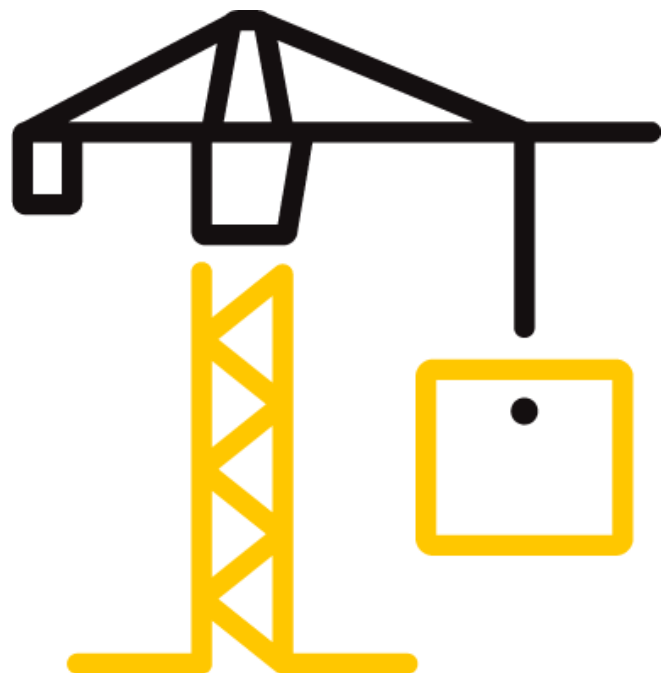
## PAGES

16

## DOCUMENT CONTROL NUMBER

GFT-OP-10c (09/29/20)

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**TEST REPORT FOR CANADIAN FIBRE CEMENT**

Report No.: 106015395COQ-001A R0

Date: 11/19/24

**REPORT ISSUED TO****CANADIAN FIBRE CEMENT****1720 - 633 6 AVE SW,****CALGARY, AB, T2P 2Y5 CANADA****SECTION 1****SCOPE**

Intertek Building & Construction (B&C) was contracted by Canadian Fibre Cement 1720 - 633 6 Ave SW, Calgary, AB, T2P 2Y5 Canada to perform testing in accordance with CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies., on their 8mm thick CFC High-Density cement board panel (Colored). 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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## TEST REPORT FOR CANADIAN FIBRE CEMENT

Report No.: 106015395COQ-001A R0

Date: 11/19/24


### SECTION 2

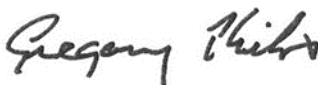
#### SUMMARY OF TEST RESULTS

The samples of 8mm thick CFC High-Density cement board panel (Colored) submitted by Canadian Fibre Cement 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 10 of this report.

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Sean Fewer
<b>TITLE:</b>	Technician B&C
<b>SIGNATURE:</b>	
<b>DATE:</b>	11/19/24

<b>REVIEWED BY:</b>	Greg Philp
<b>TITLE:</b>	Reviewer- B&C
<b>SIGNATURE:</b>	
<b>DATE:</b>	11/19/24

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## TEST REPORT FOR CANADIAN FIBRE CEMENT

Report No.: 106015395COQ-001A R0

Date: 11/19/24

### SECTION 3

#### TEST METHOD(S)

The specimens were evaluated in accordance with the following:

**CAN/ULC S102-18, Standard Method of Test for Surface Burning Characteristics of Building 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 10/30/2024 (Coquitlam ID# VAN2410301231-001).

### SECTION 5

#### EQUIPMENT

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
WH2189	Photocell	Huygen 856	05/15/25
WH 2190	Smoke Opacity Meter	Huygen	05/15/25
WH 2494	Data Logger	Phidgets DAQ 2020	11/06/25
	FS Tunnel (S102)	N/A	12/11/24

### SECTION 6

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Sean Fewer	Intertek B&C

**TEST REPORT FOR CANADIAN FIBRE CEMENT**

Report No.: 106015395COQ-001A R0

Date: 11/19/24

**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  $23 \pm 3^{\circ}\text{C}$  ( $73.4 \pm 5^{\circ}\text{F}$ ) and  $50 \pm 5\%$  relative humidity.

The sample material consisted of their 8mm thick CFC High-Density cement board panel (Colored). Each sample measured 8mm thick by 610mm wide by 2440mm long.

For each trial run, 610mm wide by 7315mm of sample material were placed on the upper ledge of the flame spread tunnel to form the required 7315mm 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 at a room temperature of  $21^{\circ}\text{C}$  and 54% humidity.

## TEST REPORT FOR CANADIAN FIBRE CEMENT

Report No.: 106015395COQ-001A R0

Date: 11/19/24

### SECTION 9

#### TEST RESULTS

##### (A) Flame Spread

The resultant flame spread ratings are as follows:

(Rating rounded to nearest 5)

8mm thick CFC High-Density cement board panel (Colored)	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)

8mm thick CFC High-Density cement board panel (Colored)	Smoke Developed	Smoke Developed Classification
Run 1	11	10
Run 2	10	
Run 3	10	

#### Observations

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

**TEST REPORT FOR CANADIAN FIBRE CEMENT**

Report No.: 106015395COQ-001A R0

Date: 11/19/24

**SECTION 10**  
**CONCLUSION**

The samples of 8mm thick CFC High-Density cement board panel (Colored) submitted by Canadian Fibre Cement 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
8mm thick CFC High-Density cement board panel (Colored)	0	10

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.

**TEST REPORT FOR CANADIAN FIBRE CEMENT**

Report No.: 106015395COQ-001A R0

Date: 11/19/24

**SECTION 11**

**TEST DATA (6 PAGES)**



## TEST REPORT FOR CANADIAN FIBRE CEMENT

Report No.: 106015395COQ-001A R0

Date: 11/19/24

## CAN/ULC S102-18 DATA SHEETS

### Run 1

Page 1 of 2

**Standard:** ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory

Client: Orbis

Date: 13 Nov 2024

Project Number: 106015395

Test Number: 1

Operator: Sean Fewer

Specimen ID and Description:

CFC High Density panel

21c 54rh

### TEST RESULTS

FLAMESPREAD INDEX: 0.000

SMOKE DEVELOPED INDEX: 11.000

### SPECIMEN DATA

Time to Ignition (sec): 0.000

Time to Max Flame Spread (min): 0.000

Maximum Flame Spread (mm): 0.000

Time to 527 C / 980 F (sec): 0.000

Max Temperature (deg F or C as per test standard): 244.982

Time to Max Temperature (sec): 596.924

Total Fuel Burned (cubic feet): 41.669

Flame Spread\*Time Area (M\*min): 0.000

Smoke Area (%A\*min): 16.605

Unrounded FSI: 0.000

Unrounded SDI: 11.269

### CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 41

Calibrated Smoke Area (%A\*min): 147.351

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

Tested by: SE

Reviewed by: SP

**TEST REPORT FOR CANADIAN FIBRE CEMENT**

Report No.: 106015395COQ-001A R0

Date: 11/19/24

**CAN/ULC S102-18 DATA SHEETS**

**Run 1**

Page 2 of 2

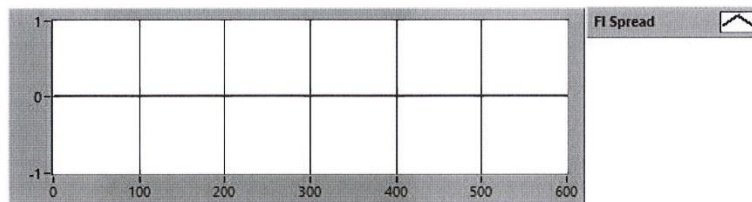
Client: Orbis

Project Number: 106015395

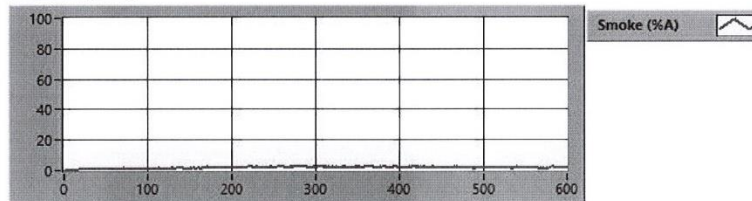
Test Number: 1

Test Standard: ULC S102

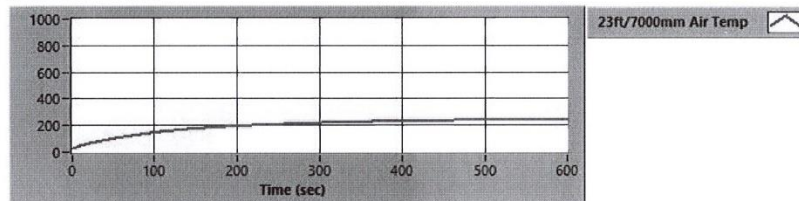
**FLAME SPREAD**



**SMOKE (%A)**



**TEMPERATURE**



Tested by: SF.

Reviewed by: SP

## TEST REPORT FOR CANADIAN FIBRE CEMENT

Report No.: 106015395COQ-001A R0

Date: 11/19/24

## CAN/ULC S102-18 DATA SHEETS

### Run 2

Page 1 of 2

**Standard:** ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory  
Client: Orbis  
Date: 13 Nov 2024  
Project Number: 106015395  
Test Number: 2  
Operator: Sean Fewer

Specimen ID and Description:

CFC High density panel

### TEST RESULTS

FLAMESPREAD INDEX: 0.000  
SMOKE DEVELOPED INDEX: 10.000

### SPECIMEN DATA

Time to Ignition (sec): 0.000  
Time to Max Flame Spread (min): 0.000  
Maximum Flame Spread (mm): 0.000  
Time to 527 C / 980 F (sec): 0.000  
Max Temperature (deg F or C as per test standard): 241.321  
Time to Max Temperature (sec): 598.996  
Total Fuel Burned (cubic feet): 41.829  
  
Flame Spread\*Time Area (M\*min): 0.000  
Smoke Area (%A\*min): 15.458  
Unrounded FSI: 0.000  
Unrounded SDI: 10.491

### CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 41  
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

**TEST REPORT FOR CANADIAN FIBRE CEMENT**

Report No.: 106015395COQ-001A R0

Date: 11/19/24

**CAN/ULC S102-18 DATA SHEETS**  
**Run 2**

Page 2 of 2

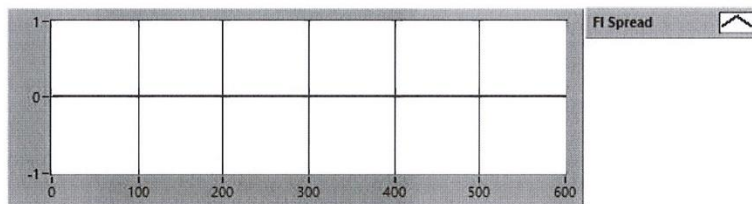
Client: Orbis

Project Number: 106015395

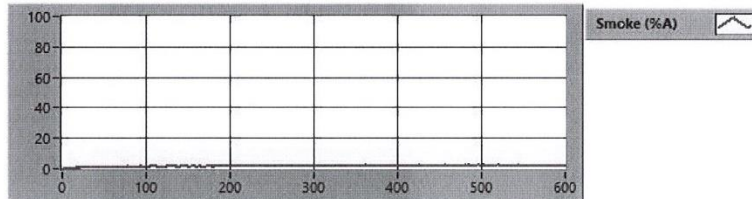
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Test Standard: ULC S102

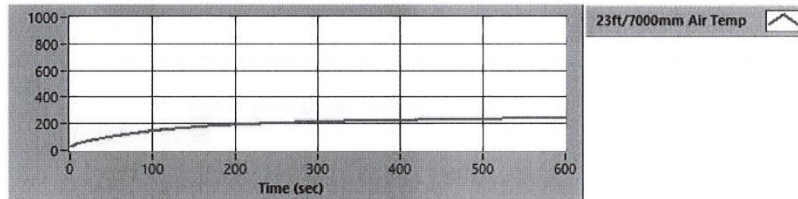
**FLAME SPREAD**



**SMOKE (%A)**



**TEMPERATURE**



Tested by: S.F.

Reviewed by: SP

## TEST REPORT FOR CANADIAN FIBRE CEMENT

Report No.: 106015395COQ-001A R0

Date: 11/19/24

## CAN/ULC S102-18 DATA SHEETS

### Run 3

Page 1 of 2

**Standard:** ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory

Client: Orbis

Date: 13 Nov 2024

Project Number: 106015395

Test Number: 3

Operator: Sean Fewer

Specimen ID and Description:

CFC High density panel

### TEST RESULTS

FLAMESPREAD INDEX: 0.000

SMOKE DEVELOPED INDEX: 10.000

### SPECIMEN DATA

Time to Ignition (sec): 0.000

Time to Max Flame Spread (min): 0.000

Maximum Flame Spread (mm): 0.000

Time to 527 C / 980 F (sec): 0.000

Max Temperature (deg F or C as per test standard): 235.980

Time to Max Temperature (sec): 598.026

Total Fuel Burned (cubic feet): 41.641

Flame Spread\*Time Area (M\*min): 0.000

Smoke Area (%A\*min): 14.915

Unrounded FSI: 0.000

Unrounded SDI: 10.122

### CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 41

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

## TEST REPORT FOR CANADIAN FIBRE CEMENT

Report No.: 106015395COQ-001A R0

Date: 11/19/24

### CAN/ULC S102-18 DATA SHEETS

#### Run 3

Page 2 of 2

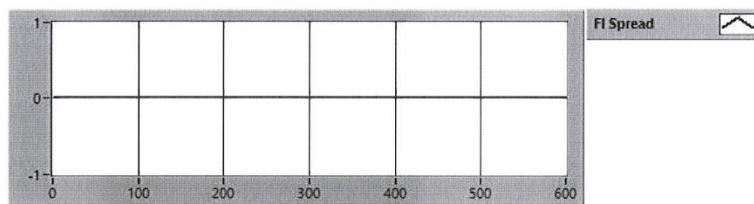
Client: Orbis

Project Number: 106015395

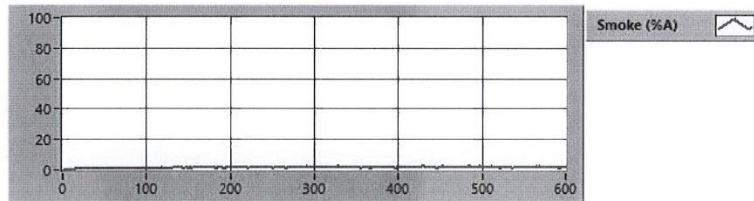
Test Number: 3

Test Standard: ULC S102

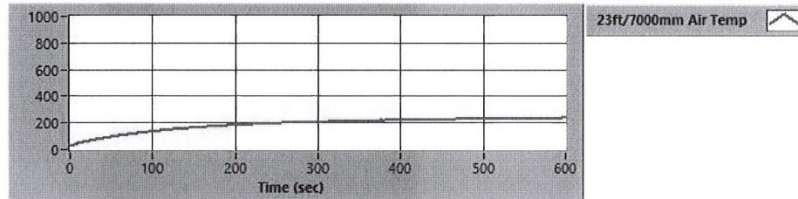
#### FLAME SPREAD



#### SMOKE (%A)



#### TEMPERATURE



Tested by: SF

Reviewed by: RP

**TEST REPORT FOR CANADIAN FIBRE CEMENT**

Report No.: 106015395COQ-001A R0

Date: 11/19/24

**SECTION 12**

**PHOTOGRAPHS**



**Photo No. 1**  
**Pre-Test**



**Photo No. 2**  
**Post Test**

## TEST REPORT FOR CANADIAN FIBRE CEMENT

Report No.: 106015395COQ-001A R0

Date: 11/19/24

### SECTION 13

#### REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	11/19/24	N/A	Original Report Issue