

VERSA DESIGNED SURFACES TEST REPORT

SCOPE OF WORK

REPORT OF TESTING WOVEN BACKED OLEFIN COMPOSITE TYPE II COMMERCIAL GRADE WALLCOVERING ADHERED TO ¼ IN. THICK CEMENT BOARD SUBSTRATE 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

104332088COQ-001 R0

TEST DATE(S)

05/21/20 - 05/21/20

ISSUE DATE

05/21/20

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15

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TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

REPORT ISSUED TO

VERSA DESIGNED SURFACES

2073 McDonald Ave

New Albany, IN 47150 USA

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Versa Designed Surfaces 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 Woven Backed Olefin Composite Type II Commercial Grade Wallcovering adhered to a ¼ in. thick cement board substrate using a clay based wallcovering adhesive. 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 in Coquitlam, BC Canada.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

The samples of Woven Backed Olefin Composite Type II Commercial Grade Wallcovering adhered to a ¼ in. thick cement board substrate using a clay-based wallcovering adhesive submitted by Versa Designed Surfaces 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:

COMPLETED BY:	Salvatore Balletta Technician – B&C	REVIEWED BY:	Greg Philp
TITLE:		TITLE:	Reviewer – B&C
SIGNATURE:		SIGNATURE:	
DATE:	05/21/20	DATE:	05/21/20

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TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

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.

SECTION 5

EQUIPMENT

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
WH2189	Photocell	Huygen 856	02/28/21
WH 2190	Smoke Opacity Meter	Huygen	02/28/21
WH 1052	Data Logger	Phidgets DAQ 2020	02/28/21

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Salvatore Balletta	Intertek B&C

TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

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 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 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 was identified by the client as Woven Backed Olefin Composite Type II Commercial Grade Wallcovering adhered to a $\frac{1}{4}$ in. thick cement board substrate using a clay-based wallcovering adhesive.

For each trial run, three 8 ft. long by 24 in. wide sample panels were butted together and 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.

TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

SECTION 9**TEST RESULTS****(A) Flame Spread**

The resultant flame spread ratings are as follows:

(Rating rounded to nearest 5)

Woven Backed Olefin Composite Type II Commercial Grade Wallcovering	Flame Spread	Flame Spread Rating
Run 1	11	15
Run 2	12	
Run 3	15	

(B) Smoke Developed

The areas beneath the smoke developed curve and the related classifications are as follows:

(Classification rounded to nearest 5)

Woven Backed Olefin Composite Type II Commercial Grade Wallcovering	Smoke Developed	Smoked Developed Classification
Run 1	13	15
Run 2	12	
Run 3	14	

(C) Observations

During the test runs, surface ignition occurred between 44 and 61 seconds; the flame began to progress along the sample until it reached the maximum flame spread.

TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

SECTION 10

CONCLUSION

The samples of Woven Backed Olefin Composite Type II Commercial Grade Wallcovering adhered to a ¼ in. thick cement board substrate using a clay-based wallcovering adhesive submitted by Versa Designed Surfaces 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
Woven Backed Olefin Composite Type II Commercial Grade Wallcovering	15	15

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.



Total Quality. Assured.

TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

1500 Brigantine Drive
Coquitlam, BC V3K 7C1

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SECTION 11

TEST DATA (6 PAGES)

TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

CAN/ULC S102-18 DATA SHEETS

Run 1

Page 1 of 2

Standard: ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory
Client: Versa Designed Surfaces
Date: 21 May 2020
Project Number: 104332088
Test Number: 1
Operator: Salvatore Balletta

Specimen ID and Description:

Woven Backed Olefin Composite Type II Commercial Grade Wallcovering

TEST RESULTS

FLAMESPREAD INDEX: 11.000
SMOKE DEVELOPED INDEX: 13.000

SPECIMEN DATA

Time to Ignition (sec): 44.732
Time to Max Flame Spread (min): 6.179
Maximum Flame Spread (mm): 1.300
Time to 527 C / 980 F (sec): 0.000
Max Temperature (deg F or C as per test standard): 284.210
Time to Max Temperature (sec): 598.732
Total Fuel Burned (cubic feet): 44.280

Flame Spread*Time Area (M*min): 6.181
Smoke Area (%A*min): 20.981
Unrounded FSI: 11.434
Unrounded SDI: 13.221

CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 44
Calibrated Smoke Area (%A*min): 158.700

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

Tested by: 

Reviewed by: 

TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

CAN/ULC S102-18 DATA SHEETS

Run 1

Page 2 of 2

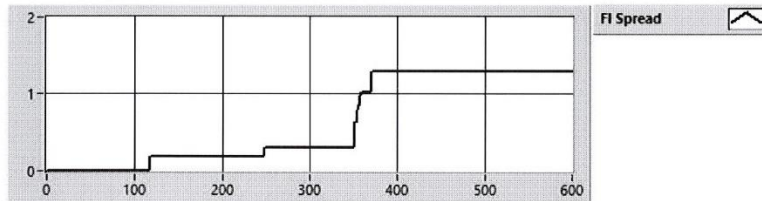
Client: Versa Designed Surfaces

Project Number: 104332088

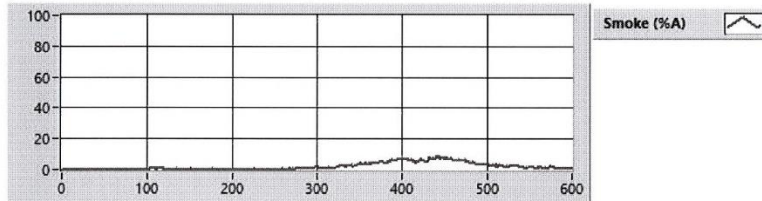
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Test Standard: ULC S102

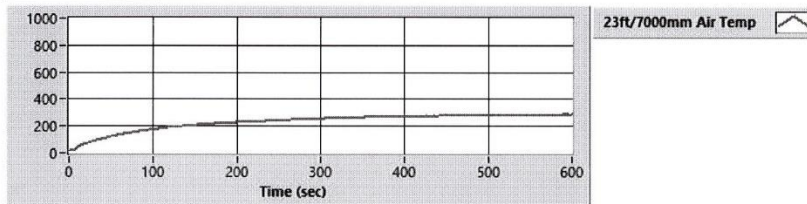
FLAME SPREAD



SMOKE (%A)



TEMPERATURE



Tested by: AA

Reviewed by: l

TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

CAN/ULC S102-18 DATA SHEETS

Run 2

Page 1 of 2

Standard: ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory
Client: Versa Designed Surfaces
Date: 21 May 2020
Project Number: 104332088
Test Number: 2
Operator: Salvatore Balletta

Specimen ID and Description:

Woven Backed Olefin Composite Type II Commercial Grade Wallcovering

TEST RESULTS

FLAMESPREAD INDEX: 12.000
SMOKE DEVELOPED INDEX: 12.000

SPECIMEN DATA

Time to Ignition (sec): 61.586
Time to Max Flame Spread (min): 6.860
Maximum Flame Spread (mm): 1.330
Time to 527 C / 980 F (sec): 0.000
Max Temperature (deg F or C as per test standard): 286.200
Time to Max Temperature (sec): 492.586
Total Fuel Burned (cubic feet): 44.220

Flame Spread*Time Area (M*min): 6.670
Smoke Area (%A*min): 19.753
Unrounded FSI: 12.339
Unrounded SDI: 12.447

CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 44
Calibrated Smoke Area (%A*min): 158.700

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

Tested by: AS

Reviewed by: LS

TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

CAN/ULC S102-18 DATA SHEETS

Run 2

Page 2 of 2

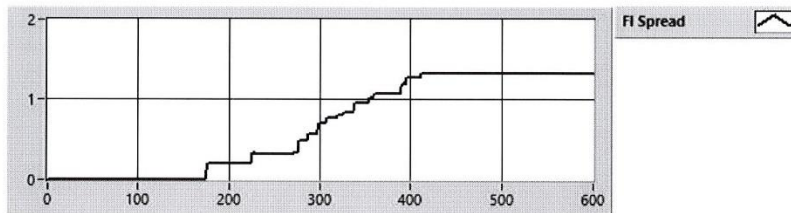
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Project Number: 104332088

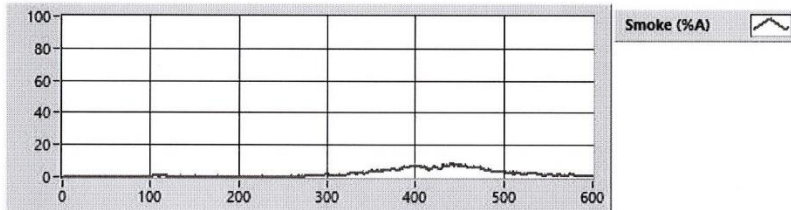
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Test Standard: ULC S102

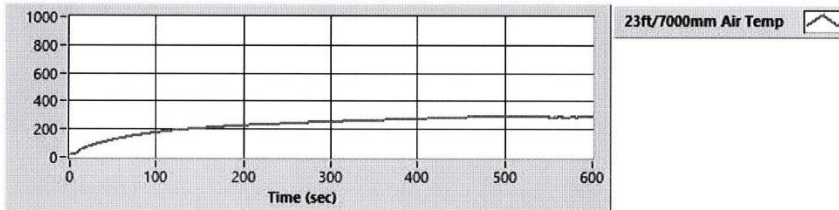
FLAME SPREAD



SMOKE (%A)



TEMPERATURE



Tested by: AS

Reviewed by: AS

TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

CAN/ULC S102-18 DATA SHEETS

Run 3

Page 1 of 2

Standard: ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory
Client: Versa Designed Surfaces
Date: 21 May 2020
Project Number: 104332088
Test Number: 3
Operator: Salvatore Balletta

Specimen ID and Description:

Woven Backed Olefin Composite Type II Commercial Wallcovering

TEST RESULTS

FLAMESPREAD INDEX: 15.000
SMOKE DEVELOPED INDEX: 14.000

SPECIMEN DATA

Time to Ignition (sec): 44.983
Time to Max Flame Spread (min): 5.783
Maximum Flame Spread (mm): 1.450
Time to 527 C / 980 F (sec): 0.000
Max Temperature (deg F or C as per test standard): 293.640
Time to Max Temperature (sec): 527.982
Total Fuel Burned (cubic feet): 44.222

Flame Spread*Time Area (M*min): 7.948
Smoke Area (%A*min): 22.620
Unrounded FSI: 14.705
Unrounded SDI: 14.253

CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 44
Calibrated Smoke Area (%A*min): 158.700

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

Tested by:  _____

Reviewed by:  _____

TEST REPORT FOR VERSA DESIGNED SURFACES
Report No.: 104332088COQ-001 R0
Date: 05/21/20

CAN/ULC S102-18 DATA SHEETS
Run 3

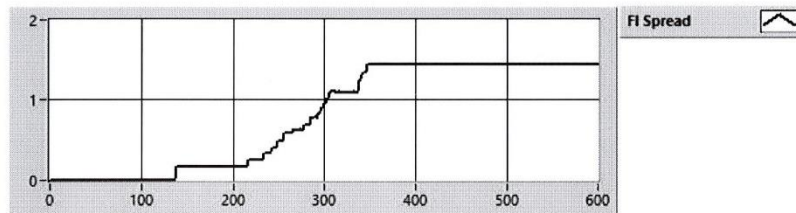
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Project Number: 104332088

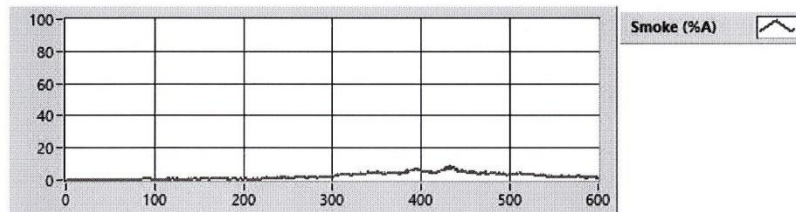
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Test Standard: ULC S102

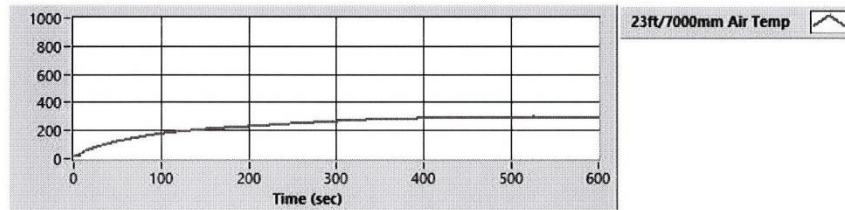
FLAME SPREAD



SMOKE (%A)



TEMPERATURE



Tested by:

Reviewed by:

TEST REPORT FOR VERSA DESIGNED SURFACES

Report No.: 104332088COQ-001 R0

Date: 05/21/20

SECTION 12

PHOTOGRAPHS



Photo No. 1
Pre-Test



Photo No. 2
Post Test



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SECTION 13

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	05/21/20	N/A	Original Report Issue