

TEST REPORT

Intertek

REPORT NUMBER: 101273252COQ-001
ORIGINAL ISSUE DATE: August 2, 2013

EVALUATION CENTER
Intertek Testing Services NA Ltd.
1500 Brigantine Drive
Coquitlam, B.C. V3K 7C1

RENDERED TO

J Josephson Inc
35 Horizon Blvd
South Hackensack, NJ 07606

PRODUCT EVALUATED: 20 oz. Fabric Backed Vinyl Wallcovering
EVALUATION PROPERTY: Surface Burning Characteristics

Report of testing 20 oz. Fabric Backed Vinyl Wallcovering for compliance with the applicable requirements of the following criteria: CAN/ULC S102.2-10, *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies*

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2 Introduction

Intertek Testing Services NA Ltd. (Intertek) has conducted testing for J Josephson Inc. to evaluate the surface burning characteristics of WO-34790 20 oz. fabric backed vinyl wallcovering. Testing was conducted in accordance with the standard methods of CAN/ULC S102.2-10, *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies*.

This evaluation began July 24, 2013 and was completed the same day.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client and were not independently selected for testing. The sample materials were received at the Evaluation Center on July 29, 2013.

3.2. SAMPLE AND ASSEMBLY 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 cut to 17 ½ in. wide by 8 ft long and adhered to a 6 mm thick inorganic cement board using Shur Stik 111 wall covering adhesive. They were identified by the client as WO-34790 20 oz. fabric backed vinyl wallcovering.

For each trial run, three 8 ft. lengths of sample material were placed on the tunnel floor. A layer of 6 mm reinforced cement board was then 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 S102.2-10.

4 Testing and Evaluation Methods

4.1. 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 Classification:

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.

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

(A) Flame Spread

The resultant flame spread classifications are as follows:
(Classification rounded to nearest 5)

WO-34790 20 oz. Fabric Backed Vinyl Wallcovering	Flame Spread	Flame Spread Classification
Run 1	1	0
Run 2	2	
Run 3	2	

Observations were taken manually, and are on file

(B) Smoke Developed

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

WO-34790 20 oz. Fabric Backed Vinyl Wallcovering	Smoke Developed	Smoke Developed Classification
Run 1	54	45
Run 2	36	
Run 3	44	

(C) Observations

During the tests, the sample surface ignited at approximately 94 to 107 seconds; the flame began to progress along the sample until it reached the maximum flame spread.

6 Conclusion


The samples of WO-34790 20 oz. fabric backed vinyl wallcovering submitted by J Josephson Inc, exhibited the following flame spread characteristics when tested in accordance CAN/ULC S102.2-10, *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies*.

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

Sample Material	Flame Spread Classification	Smoke Developed Classification
WO-34790 20 oz. Fabric Backed Vinyl Wallcovering	0	45

The conclusions of this test report may not be used as part of the requirements for Intertek product certification.

INTERTEK TESTING SERVICES NA LTD.

Tested and
Reported by: 
Greg Philp
Technician – Building Products

Reviewed by: 
Scott Leduc, EIT
Test Engineer – Building Products

GP

APPENDIX A

DATA SHEETS

CAN/ULC S102.2-10 DATA SHEETS
Run 1

Standard: Canadian ULC S102.2

Page 1 of 2

Client: J Josephson
Date: 08 02 2013
Project Number: 101273252
Test Number: 1
Operator: Greg Philp

Specimen ID: WO-34790 20 oz Fabric Backed Wallcovering applied to in organic cement board

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 55

SPECIMEN DATA . . .

Time to Ignition (sec): 94
Time to Max FS (sec): 234
Maximum FS (mm): 75.6
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 275
Time to Max Temperature (sec): 527
Total Fuel Burned (cubic feet): 44.00

FS*Time Area (M*min): 0.5
Smoke Area (%A*min): 90.3
Unrounded FSI: 0.9
Unrounded SDI: 53.6

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 44.0
Red Oak Smoke Area (%A*min): 168.3

Tested By:  _____

Reviewed By:  _____

CAN/ULC S102.2-10 DATA SHEETS Run 1

Page 2 of 2

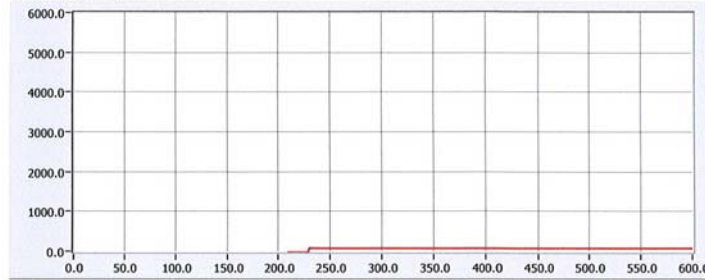
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Specimen ID: WO-34790 20 oz Fabric Backed

Test No.: 101273252

Standard: Canadian ULC S102.2

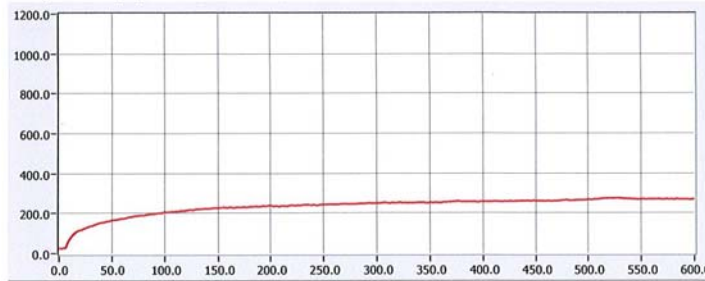
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By:

Reviewed By:

CAN/ULC S102.2-10 DATA SHEETS
Run 2

Standard: Canadian ULC S102.2

Page 1 of 2

Client: J Josephson
Date: 08 02 2013
Project Number: 101273252
Test Number: 2
Operator: Greg Philp

Specimen ID: WO-34790 20 oz Fabric Backed Vinyl Wallcovering

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 35

SPECIMEN DATA . . .

Time to Ignition (sec): 100
Time to Max FS (sec): 476
Maximum FS (mm): 265.5
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 268
Time to Max Temperature (sec): 591
Total Fuel Burned (cubic feet): 44.00

FS*Time Area (M*min): 1.1
Smoke Area (%A*min): 60.3
Unrounded FSI: 2.1
Unrounded SDI: 35.8

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 44.0
Red Oak Smoke Area (%A*min): 168.3

Tested By:  _____

Reviewed By:  _____

CAN/ULC S102.2-10 DATA SHEETS Run 2

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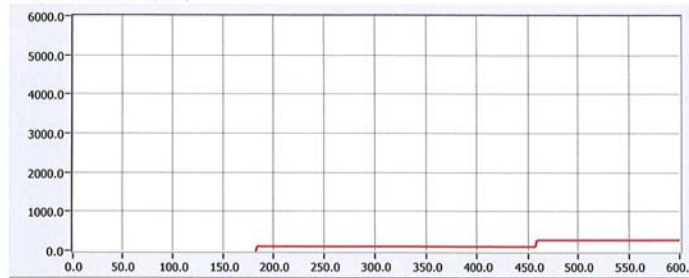
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Specimen ID: WO-34790 20 oz Fabric Backed Vinyl

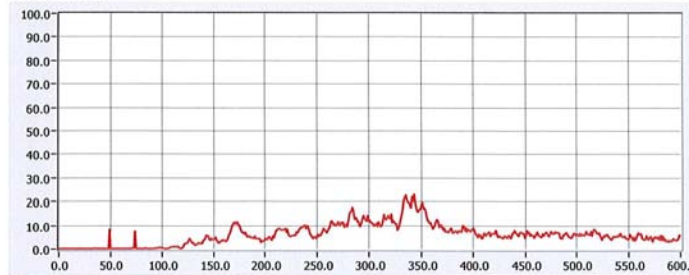
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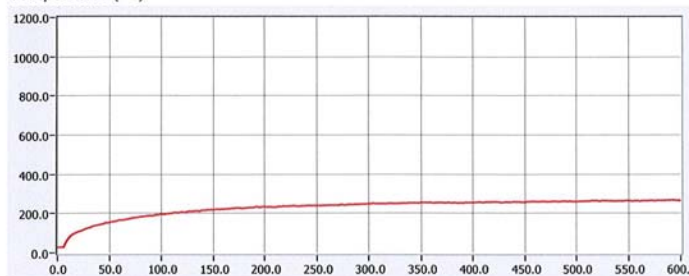
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By:

Reviewed By:

CAN/ULC S102.2-10 DATA SHEETS Run 3

Standard: Canadian ULC S102.2

Page 1 of 2

Client: J Josephson
Date: 08 02 2013
Project Number: 101273252
Test Number: 3
Operator: Greg Philp

Specimen ID: WO-34790 20 oz Fabric Backed Vinyl Wallcovering

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 45

SPECIMEN DATA . . .

Time to Ignition (sec): 107
Time to Max FS (sec): 429
Maximum FS (mm): 198.5
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 269
Time to Max Temperature (sec): 578
Total Fuel Burned (cubic feet): 44.00

FS*Time Area (M*min): 0.8
Smoke Area (%A*min): 74.4
Unrounded FSI: 1.6
Unrounded SDI: 44.2

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 44.0
Red Oak Smoke Area (%A*min): 168.3

Tested By: 

Reviewed By: 

CAN/ULC S102.2-10 DATA SHEETS
Run 3

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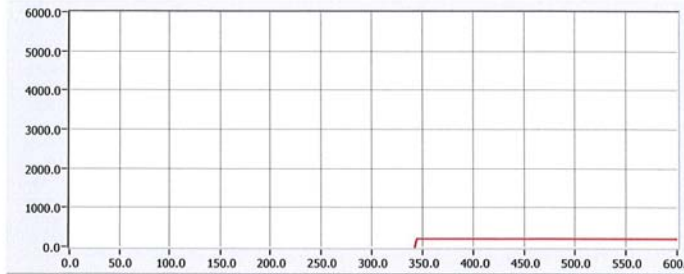
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Specimen ID: W0-34790 20 oz Fabric Backed Vinyl

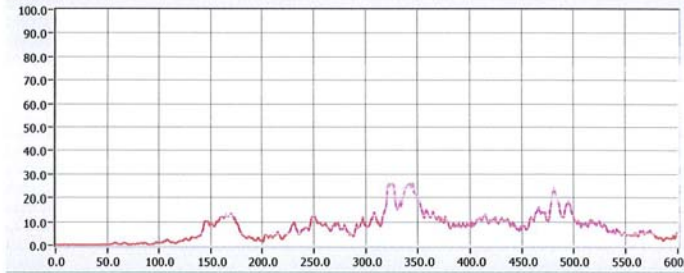
Test No.: 101273252

Standard: Canadian ULC S102.2

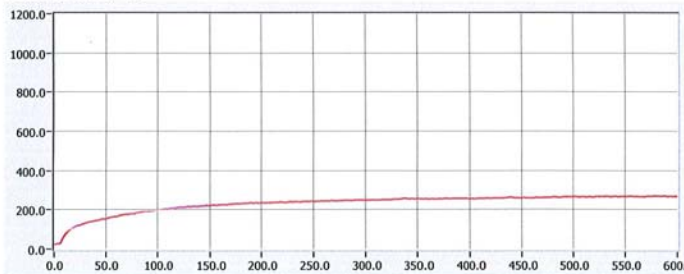
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: 

Reviewed By: 

REVISION SUMMARY

DATE	PAGE(S)	SUMMARY
August 2, 2013	--	Original Issue Date