

# NELCOS DISTRIBUTION INC. TEST REPORT

## SCOPE OF WORK

REPORT OF TESTING ON BODAQ SELF-ADHESIVE INTERIOR FILM SPW43 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

105116750COQ-001 R0

## TEST DATE(S)

08/29/22 - 08/29/22

## ISSUE DATE

09/19/22

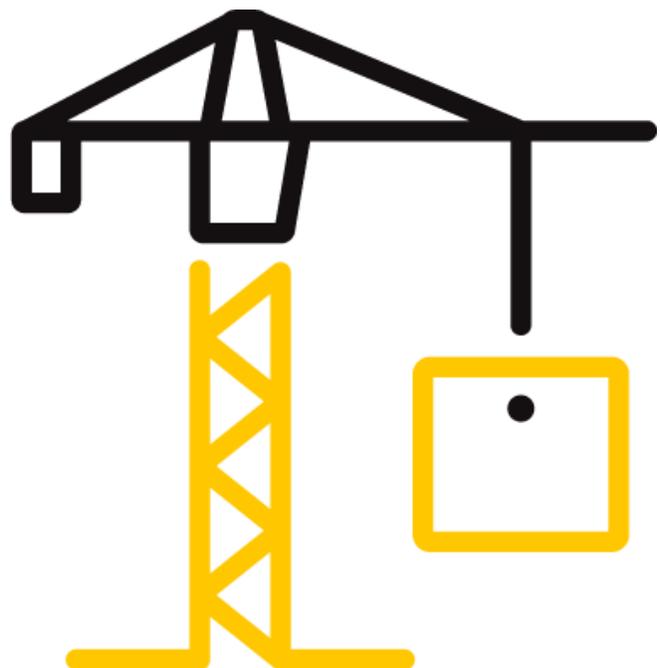
## PAGES

16

## DOCUMENT CONTROL NUMBER

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

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## TEST REPORT FOR NELCOS DISTRIBUTION INC.

Report No.: 105116750COQ-001 R0

Date: 09/19/22

### REPORT ISSUED TO

**NELCOS DISTRIBUTION INC.  
#1032-10 FOUR SEASONS PLACE  
ETOBICOKE, ON M9B 6H7  
CANADA**

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by Nelcos Distribution Inc, #1032-10 Four Seasons Place Etobicoke ON 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 Bodaq Self-adhesive Interior Architectural Film SPW43. 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.

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 NELCOS DISTRIBUTION INC.

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### SECTION 2

#### SUMMARY OF TEST RESULTS

The samples Bodaq Self-adhesive Interior Architectural Film SPW43 submitted by Nelcos Distribution 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 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>	09/19/22

<b>REVIEWED BY:</b>	Greg Philp
<b>TITLE:</b>	Reviewer- B&C
<b>SIGNATURE:</b>	
<b>DATE:</b>	09/19/22

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**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.

**SECTION 5**

**EQUIPMENT**

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
WH2189	Photocell	Huygen 856	11/05/22
WH 2190	Smoke Opacity Meter	Huygen	11/05/22
WH 2494	Data Logger	Phidgets DAQ 2020	11/05/22
	FS Tunnel (S102)	N/A	03/09/23

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

The sample material consisted of 610mm wide by 2440mm wide and was identified as Bodaq Self-adhesive Interior Architectural Film SPW43 adhered to 6mm cement board.

For each trial run, three 610mm wide by 2440mm long sample material was 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.

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

The resultant flame spread ratings are as follows:

(Rating rounded to nearest 5)

<b>Bodaq Self-adhesive Interior Architectural Film SPW43</b>	<b>Flame Spread</b>	<b>Flame Spread Rating</b>
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)

<b>Bodaq Self-adhesive Interior Architectural Film SPW43</b>	<b>Smoke Developed</b>	<b>Smoked Developed Classification</b>
Run 1	13	5
Run 2	6	
Run 3	3	

**(C) Observations**

During the test runs, surface ignition occurred between 21 and 32 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 Bodaq Self-adhesive Interior Architectural Film SPW43 submitted by Nelcos Distribution 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.

<b>Sample Material</b>	<b>Flame Spread Rating</b>	<b>Smoke Developed Classification</b>
Bodaq Self-adhesive Interior Architectural Film SPW43	0	5

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.

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Date: 09/19/22

1500 Brigantine Drive  
Coquitlam, BC V3K 7C1

Telephone: 604-520-3321  
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**SECTION 11**

**TEST DATA (6 PAGES)**

## TEST REPORT FOR NELCOS DISTRIBUTION INC.

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## CAN/ULC S102-18 DATA SHEETS

### Run 1

Page 1 of 2

**Standard:** ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory  
Client: Nelcos Distribution Inc.  
Date: 29 Aug 2022  
Project Number: 105116750  
Test Number: 1  
Operator: Sean Fewer

Specimen ID and Description:

Bodaq self-adhesive interior architectural film SPW43

#### TEST RESULTS

FLAMESPREAD INDEX: 0.000  
SMOKE DEVELOPED INDEX: 13.000

#### SPECIMEN DATA

Time to Ignition (sec): 21.051  
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): 243.700  
Time to Max Temperature (sec): 590.050  
Total Fuel Burned (cubic feet): 50.988  
  
Flame Spread\*Time Area (M\*min): 0.000  
Smoke Area (%A\*min): 19.166  
Unrounded FSI: 0.000  
Unrounded SDI: 12.756

#### CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 43  
Calibrated Smoke Area (%A\*min): 150.252

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

Tested by: SF

Reviewed by: SF

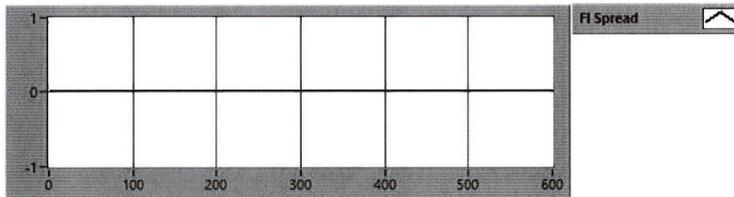
**TEST REPORT FOR NELCOS DISTRIBUTION INC.**  
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## CAN/ULC S102-18 DATA SHEETS Run 1

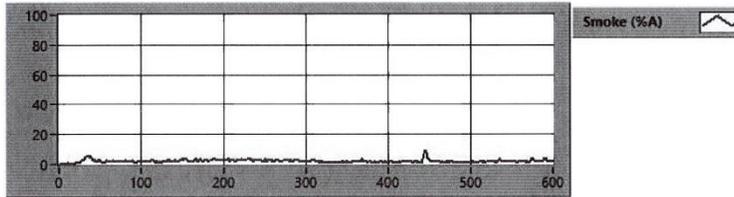
Page 2 of 2

Client: Nelcos Distribution Inc.      Project Number: 105116750  
Test Number: 1      Test Standard: ULC S102

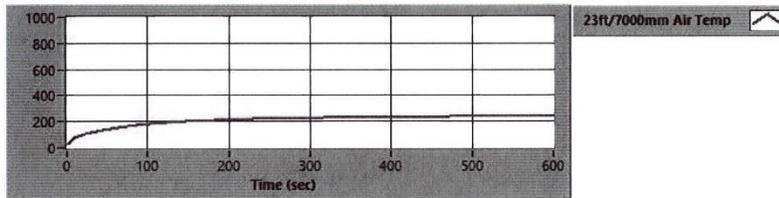
### FLAME SPREAD



### SMOKE (%A)



### TEMPERATURE



Tested by: SF

Reviewed by: gp

## TEST REPORT FOR NELCOS DISTRIBUTION INC.

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Date: 09/19/22

## CAN/ULC S102-18 DATA SHEETS

### Run 2

Page 1 of 2

**Standard:** ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory  
Client: Nelcos Distribution Inc.  
Date: 29 Aug 2022  
Project Number: 105116750  
Test Number: 2  
Operator: Sean Fewer

Specimen ID and Description:

Bodaq self-adhesive architectural interior film SPW43

### TEST RESULTS

FLAMESPREAD INDEX: 0.000  
SMOKE DEVELOPED INDEX: 6.000

### SPECIMEN DATA

Time to Ignition (sec): 32.357  
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): 246.560  
Time to Max Temperature (sec): 599.357  
Total Fuel Burned (cubic feet): 51.017  
  
Flame Spread\*Time Area (M\*min): 0.000  
Smoke Area (%A\*min): 8.322  
Unrounded FSI: 0.000  
Unrounded SDI: 5.538

### CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 43  
Calibrated Smoke Area (%A\*min): 150.252

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

Tested by: SF

Reviewed by: SF

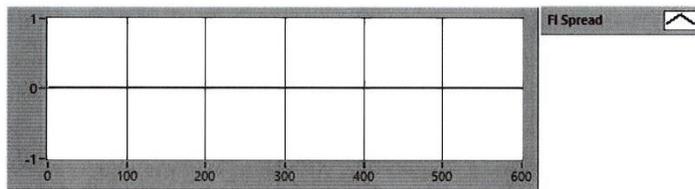
**TEST REPORT FOR NELCOS DISTRIBUTION INC.**  
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## CAN/ULC S102-18 DATA SHEETS Run 2

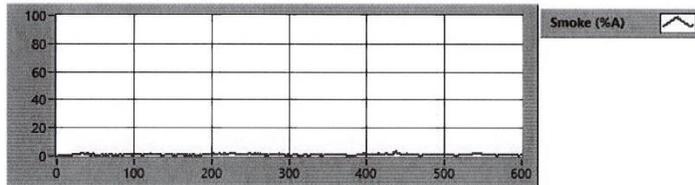
Page 2 of 2

Client: Nelcos Distribution Inc.      Project Number: 105116750  
Test Number: 2      Test Standard: ULC S102

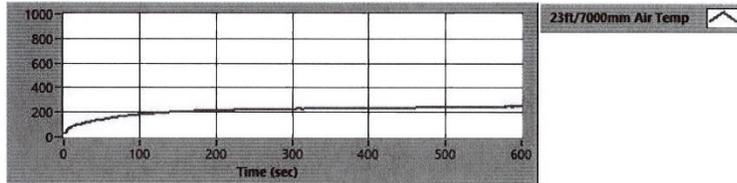
### FLAME SPREAD



### SMOKE (%A)



### TEMPERATURE



Tested by: SF

Reviewed by: gp

## TEST REPORT FOR NELCOS DISTRIBUTION INC.

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## CAN/ULC S102-18 DATA SHEETS

### Run 3

Page 1 of 2

**Standard:** ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory  
Client: Nelcos Distributions Inc.  
Date: 29 Aug 2022  
Project Number: 105116750  
Test Number: 3  
Operator: Sean Fewer

Specimen ID and Description:

Bodaq self-adhesive architectural interior film SPW43

#### TEST RESULTS

FLAMESPREAD INDEX: 0.000  
SMOKE DEVELOPED INDEX: 3.000

#### SPECIMEN DATA

Time to Ignition (sec): 28.068  
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): 242.760  
Time to Max Temperature (sec): 596.068  
Total Fuel Burned (cubic feet): 50.926  
  
Flame Spread\*Time Area (M\*min): 0.000  
Smoke Area (%A\*min): 5.051  
Unrounded FSI: 0.000  
Unrounded SDI: 3.362

#### CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 43  
Calibrated Smoke Area (%A\*min): 150.252

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

Tested by: SF

Reviewed by: [Signature]

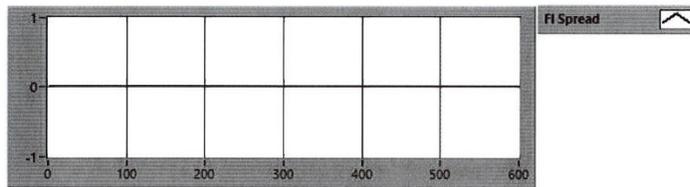
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## CAN/ULC S102-18 DATA SHEETS Run 3

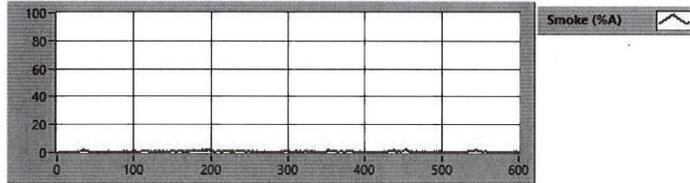
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Client: Nelcos Distributions Inc. Project Number: 105116750  
Test Number: 3 Test Standard: ULC S102

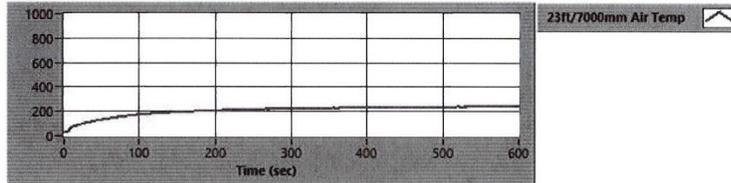
### FLAME SPREAD



### SMOKE (%A)



### TEMPERATURE



Tested by: SF

Reviewed by: gp

## TEST REPORT FOR NELCOS DISTRIBUTION INC.

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### SECTION 12 PHOTOGRAPHS



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



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



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**TEST REPORT FOR NELCOS DISTRIBUTION INC.**

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1500 Brigantine Drive  
Coquitlam, BC V3K 7C1

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**SECTION 13**

**REVISION LOG**

REVISION #	DATE	PAGES	REVISION
1	08/31/22	Throughout	Sample description Change