

HARDWOODS SPECIALTY PRODUCTS TEST REPORT

SCOPE OF WORK

REPORT OF TESTING ON ¾ INCH ECHOWOOD PANEL 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

105105266COQ-001B RO

TEST DATE(S)

07/19/22

ISSUE DATE

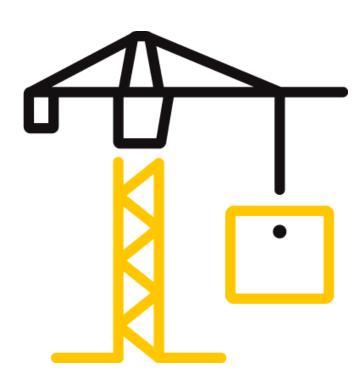
08/19/22

PAGES

17

DOCUMENT CONTROL NUMBER

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TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

REPORT ISSUED TO

Hardwoods Speciality Products 27321 58th Crescent Langley, BC Canada V4W 3W7

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Hardwoods Specialty Products at 27321 58th Crescent Langley, BC 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 ¾ inch Echowood Panel. 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.

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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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Version: 29 September 2020 Page 2 of 17 GFT-OP-10c



Telephone: 604-520-3321 www.intertek.com/building

TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

SECTION 2

SUMMARY OF TEST RESULTS

The samples of ¾ inch Echowood Panel submitted by Hardwoods Specialty Products 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: Sean Fewer REVIEWED BY: Kal Kooner

TITLE: Technician B&C TITLE: Reviewer- B&C

SIGNATURE: SIGNATURE: EGBC Permit No.: 1000953

DATE: 08/19/22 DATE: 08/19/22

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Version: 29 September 2020 Page 3 of 17 GFT-OP-10c



Telephone: 604-520-3321 www.intertek.com/building

TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

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 06/27/2022. (Coquitlam ID# VAN2112291515-001).

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 1052	Data Logger	Phidgets DAQ 2020	11/05/22
WH 2190	FS Tunnel	N/A	03/09/23

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Sean Fewer	Intertek B&C



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TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

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 ft. 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°C (73.4 \pm 5°F) and 50 \pm 5% relative humidity.

The sample material was identified by the client as ¾ inch Echowood Panel. The samples measured approximately 3/4 in. thick by 2 ft. wide by 8 ft. long panels.

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.



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TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

SECTION 9

TEST RESULTS

(A) Flame Spread

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

¾ inch Echowood Panel	Flame Spread	Flame Spread Rating
Run 1	112	
Run 2	110	110
Run 3	101	

(B) Smoke Developed

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

¾ inch Echowood Panel	Smoke Developed	Smoked Developed Classification
Run 1	91	
Run 2	102	90
Run 3	83	

Observations

During the test runs, surface ignition occurred approximately 78 to 80 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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TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

SECTION 10

CONCLUSION

The samples of ¾ inch Echowood Panel submitted by Hardwoods Specialty Products 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
¾ inch Echowood Panel	110	90

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.

Version: 29 September 2020 Page 7 of 17 GFT-OP-10c



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TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

SECTION 11

TEST DATA (6 PAGES)



Telephone: 604-520-3321 www.intertek.com/building

TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

KGII 1	
	Page 1 of 3
Standard: ULC S102	-
Lab ID: Intertek Coquitlam Fire Laboratory	
Client: Hardwood Specialty Products	
Date: 19 Jul 2022	
Project Number: 105105266 Test Number: 1	
Operator: Sean Fewer	
Specimen ID and Description:	
3/4 inch Echowood panel	·
3/4 men zeneweda paner	
ST RESULTS	
FLAMESPREAD INDEX: 112.000	
SMOKE DEVELOPED INDEX: 91.000	
ECIMEN DATA	
Time to Ignition (sec): 78.537	
Time to Max Flame Spread (min): 3.442	
Maximum Flame Spread (ft): 5.940	
Time to 527 C / 980 F (sec): 6.576	
Max Temperature (deg F or C as per test standard): 617.800	
Time to Max Temperature (sec): 566.537	
Total Fuel Burned (cubic feet): 50.602	
Flame Spread*Time Area (M*min): 44.813	
Smoke Area (%A*min): 137.433	
Unrounded FSI: 112.426	
Unrounded SDI: 91.468	
LIBRATION DATA	
Time to Ignition of Last Red Oak (sec): 43	
Calibrated Smoke Area (%A*min): 150.252	15 point Heptane average for E84-21a 5 point Red Oak average for S102
$<\mathcal{D}$	
Tested by: 5F Reviewed b	oy:



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TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

CAN/ULC S102-18 DATA SHEETS Run 1

Page 2 of 2 Client: Hardwood Specialty Products Project Number: 105105266 Test Number: 1 Test Standard: ULC S102 **FLAME SPREAD** FI Spread 🔨 SMOKE (%A) Smoke (%A) **TEMPERATURE** Z3H/7000mm Air Temp 🔨 600 Tested by: SFReviewed by: _



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TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

Standard: ULC S102 Lab ID: Intertek Coquitlam Fire Laboratory Client: Hardwoods Specialty Products Date: 19 Jul 2022 Project Number: 105105266 Test Number: 2 Operator: Sean Fewer secimen ID and Description:	Page 1 of
Lab ID: Intertek Coquitlam Fire Laboratory Client: Hardwoods Specialty Products Date: 19 Jul 2022 Project Number: 105105266 Test Number: 2 Operator: Sean Fewer	
Client: Hardwoods Specialty Products Date: 19 Jul 2022 Project Number: 105105266 Test Number: 2 Operator: Sean Fewer	
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Project Number: 105105266 Test Number: 2 Operator: Sean Fewer ecimen ID and Description:	
Test Number: 2 Operator: Sean Fewer secimen ID and Description:	
Operator: Sean Fewer secimen ID and Description:	
ecimen ID and Description:	
3/4 inch Echowood panel	
T RESULTS	
FLAMESPREAD INDEX: 110.000	
SMOKE DEVELOPED INDEX: 102.000	
CIMEN DATA	
 Time to Ignition (sec): 80.762	
Time to Max Flame Spread (min): 3.746	
Maximum Flame Spread (ft): 5.940	
Time to 527 C / 980 F (sec): 5.929	
Max Temperature (deg F or C as per test standard): 606.420	
Time to Max Temperature (sec): 513.763	
Total Fuel Burned (cubic feet): 50.564	
Flame Spread*Time Area (M*min): 44.551	
Smoke Area (%A*min): 153.288	
Unrounded FSI: 110.447	
Unrounded SDI: 102.021	
BRATION DATA	
Time to Ignition of Last Red Oak (sec): 43	
12 .G St. St. Baseries Sair (See). 43	15 point Heptane average for E84-21a
Calibrated Smoke Area (%A*min): 150.252	5 point Red Oak average for \$102
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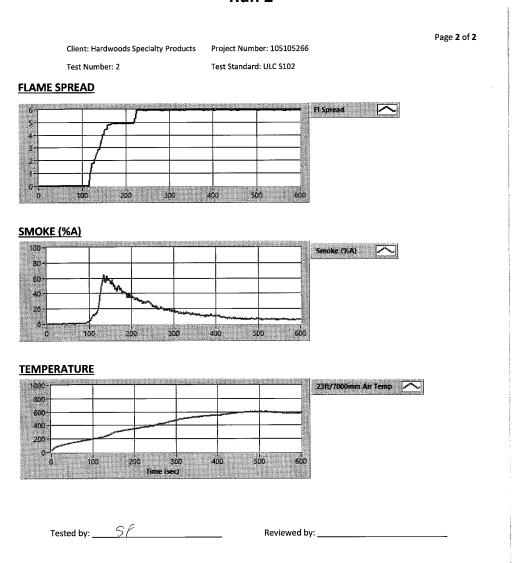


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TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22





Telephone: 604-520-3321 www.intertek.com/building

TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

Ruii 5	
Standard: ULC \$102	Page 1 of 2
Lab ID: Intertek Coguitlam Fire Laboratory	
Client: Hardwoods Specialty Products Date: 19 Jul 2022	
Project Number: 105105266	
Test Number: 3	
Operator: Sean Fewer	
Specimen ID and Description:	
3/4 inch Echowood panel	
	i
TOT DECLUTE	
ST RESULTS FLAMESPREAD INDEX: 101.000	
SMOKE DEVELOPED INDEX: 83.000	
PECIMEN DATA	
Time to Ignition (sec): 80.504	
Time to Max Flame Spread (min): 3.825	
Maximum Flame Spread (ft): 5.940	
Time to 527 C / 980 F (sec): 6.592	
Max Temperature (deg F or C as per test standard): 650.270	
Time to Max Temperature (sec): 583.503	
Total Fuel Burned (cubic feet): 50.297	
Flame Spread*Time Area (M*min): 43.165	
Smoke Area (%A*min): 124.607	
Unrounded FSI: 101.018	
Unrounded SDI: 82.932	
ALIBRATION DATA	
Time to Ignition of Last Red Oak (sec): 43	
Calibrated Smoke Area (%A*min): 150.252	15 point Heptane average for E84-21a 5 point Red Oak average for S102
S.E.	
Tested by: S E Reviewed b	y:

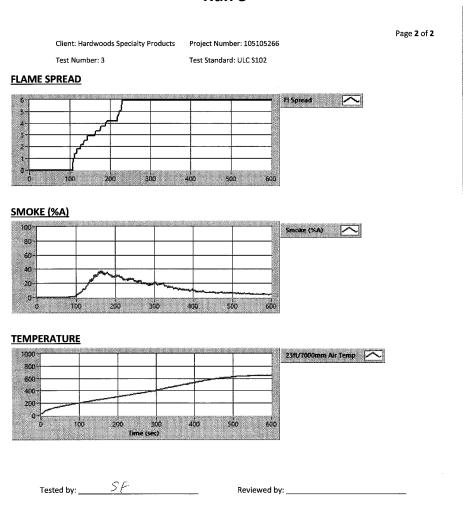


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TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22





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TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

SECTION 12

PHOTOGRAPHS





Photo No. 2 Post Test

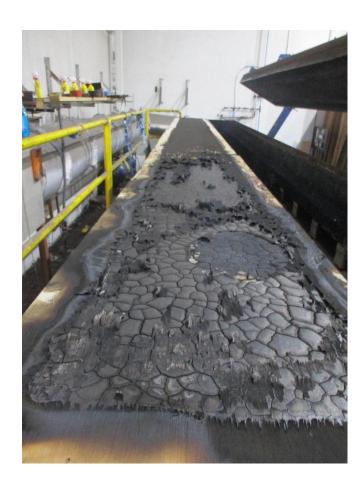


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TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22





Telephone: 604-520-3321 www.intertek.com/building

TEST REPORT FOR HARDWOODS SPECIALTY PRODUCTS

Report No.: 105105266COQ-001B R0

Date: 08/19/22

SECTION 13

REVISION LOG

REVISION #	DATE	SECTION	REVISION
0	08/19/22	N/A	Original Report Issue
	00/ 20/ 22	.,,,,	S. Marian Report Board