

August 8, 2019

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Letter Report No. 104017925COQ-001 Project No. G104017925

Mr. Mike Baker Barriertek Inc 7123 Sparrow Drive Leduc, AB T9E 7L1 CAN

Subject: CAN/ULC S102-18 Flame Spread Test Results – R&D Flame Spread on Untreated 3/8 in. thick OSB and 3/8 in. thick OSB with Protektor 2 Coating.

Dear Mr. Baker,

This letter concludes and represents the results of the evaluation and tests of the above referenced material to the requirements contained in the following standards:

CAN/ULC S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

On July 23, 2019, Intertek Testing Services NA Ltd. conducted a R&D flame spread test program to determine the surface burning characteristics of Untreated 3/8 in. thick OSB and 3/8 in. thick OSB with Protektor 2 Coating.

The sample materials were received at the testing facility on July 8, 2019.

Upon receipt of the samples at the Intertek Coquitlam laboratory, they were placed in a conditioning room where they remained in an atmosphere of $23 \pm 3^{\circ}$ C (73.4 ± 5°F) and 50 ± 5% relative humidity.

Foreach trial run, three 24 in. wide by 8 ft. long sample panels were 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 sample material, the tunnel lid was lowered into place, and the samples were then tested in accordance with CAN/ULC S102-18.

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Flame Spread

The resultant flame spread ratings are as follows:

Sample Material	Flame Spread	Flame Spread Rating
Untreated 3/8 in. thick OSB	142	N/A
3/8 in. thick OSB with Protektor 2 Coating	5	N/A

Smoke Developed

The resultant smoke developed ratings are as follows:

Sample Material	Smoke Developed	Smoked Developed Classification
Untreated 3/8 in. thick OSB	123	N/A
3/8 in. thick OSB with Protektor 2 Coating	68	N/A

This letter report completes our evaluation covered by Intertek Project No. G104017925.

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

If there are any questions regarding the results contained in this report, or any of the other services offered by Intertek, please do not hesitate to contact the undersigned.

Please note that this Letter Report does not represent authorization for the use of any Intertek certification marks.

Tested and Reported by:	Sean Brewer	Reviewed by:	Greg Philp
Title:	Technician, Byilding/Products Testing	Title:	Reviewer, Building Products Canada
Signature:	Defen	Signature	Gregory Philis
Date	August 8, 2019	Date:	August 8, 2019



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Tested By: SF

Reviewed By:

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Standard:

ULC S102

Client: BarrierTek Date: 07 23 2019 Project Number: Test Number: 1 Operator: Sean Fewer

Specimen ID: Protektor 2 Coting on 3/8 in. thick OSB

TEST RESULTS

FLAMESPREAD INDEX: 5

SMOKE DEVELOPED INDEX: 70

SPECIMEN DATA . . .

Time to Ignition (sec): 281 Time to Max FS (sec): 585 Maximum FS (mm): 1250.5 Time to 527 C (sec): Never Reached Time to End of Tunnel (sec): Never Reached Max Temperature (C): 314 Time to Max Temperature (sec): 599 Total Fuel Burned (cubic feet): 45.70

> FS*Time Area (M*min): 2.7 Smoke Area (%A*min): 107.2 Unrounded FSI: 5.0 Unrounded SDI: 68.1

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 48.0 Red Oak Smoke Area (%A*min): 157.5

Tested By: SF

Reviewed By:

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