

August 8, 2019

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

For each 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.



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:

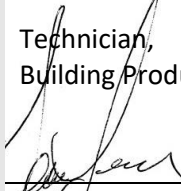
Sample Material	Smoke Developed	Smoke Developed Classification
Untreated 3/8 in. thick OSB	123	N/A
3/8 in. thick OSB with Protektor 2 Coating	68	N/A

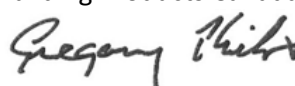
This letter report completes our evaluation covered by Intertek Project No. G104017925.

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
Title:	Technician, Building Products Testing
Signature:	
Date	August 8, 2019

Reviewed by:	Greg Philp
Title:	Reviewer, Building Products Canada
Signature	
Date:	August 8, 2019

CAN/ULC S102-18 DATA SHEETS

Standard: ULC S102

Page 1 of 2

Client: BarrierTek
Date: 07 23 2019
Project Number:
Test Number: 1
Operator: Sean Fewer
Specimen ID: 3/8 in. thick untreated OSB

TEST RESULTS

FLAMESPREAD INDEX: 140
SMOKE DEVELOPED INDEX: 125

SPECIMEN DATA . . .

Time to Ignition (sec): 54
Time to Max FS (sec): 174
Maximum FS (mm): 5781.5
Time to 527C (sec): 207
Time to End of Tunnel (sec): 174
Max Temperature (C): 649
Time to Max Temperature (sec): 596
Total Fuel Burned (cubic feet): 45.70
FS*Time Area (M*min): 47.9
Smoke Area (%A*min): 194.6
Unrounded FSI: 141.8
Unrounded SDI: 123.5

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: 

CAN/ULC S102-18 DATA SHEETS

Standard: ULC S102

Page 1 of 2

Client: BarrierTek

Date: 07 23 2019

Project Number:

Test Number: 1

Operator: Sean Fewer

Specimen ID: Protektor 2 Coating 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: [Signature]

CAN/ULC S102-18 DATA SHEETS

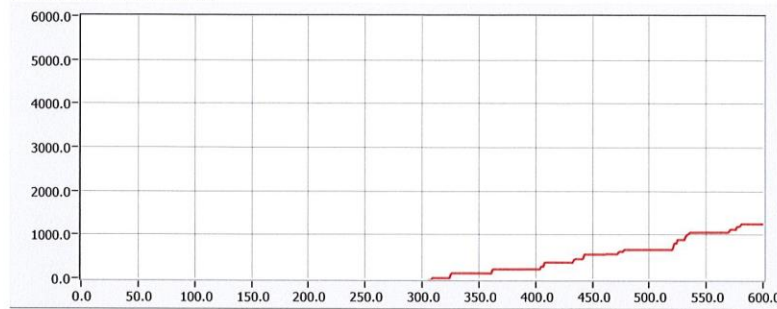
Client: BarrierTek

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

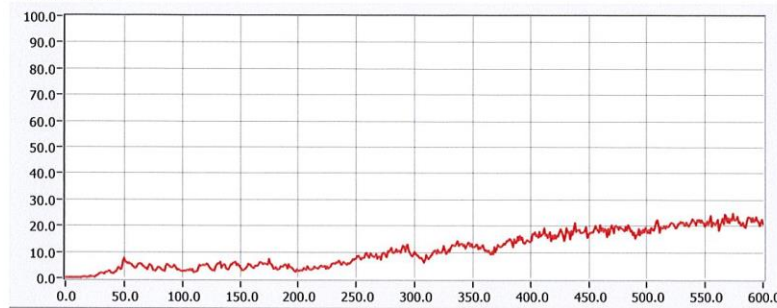
Test No.: 1

Standard: ULC S102

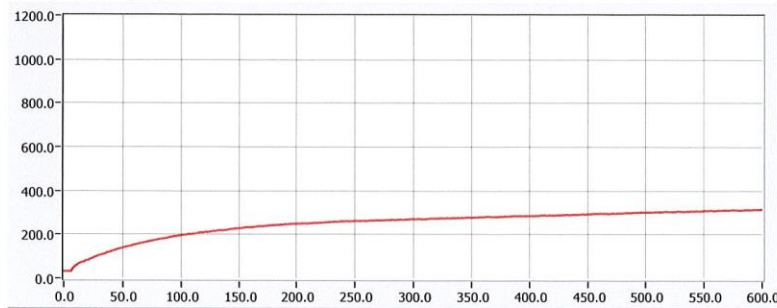
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: SF

Reviewed By: [Signature]