

January 6, 2020

Letter Report No. 104182904COQ-002
Project No. G104182904

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 3/8 in. thick OSB with PG36 Coating and 3/8 in. thick OSB with PG41 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 December 19, 2019 the surface burning characteristics of 3/8 in. thick OSB with PG36 Coating and 3/8 in. thick OSB with PG41 Coating.

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
3/8 in. thick OSB with PG36 Coating	16	N/A
3/8 in. thick OSB with PG41 Coating	11	N/A

Smoke Developed

The resultant smoke developed ratings are as follows:

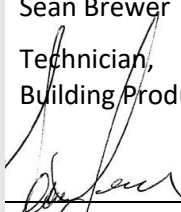
Sample Material	Smoke Developed	Smoke Developed Classification
3/8 in. thick OSB with PG36 Coating	120	N/A
3/8 in. thick OSB with PG41 Coating	103	N/A


This letter report completes our evaluation covered by Intertek Project No. G104182904.

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: January 6, 2020

Reviewed by: Greg Philp
Title: Reviewer, Building Products Canada
Signature: 
Date: January 6, 2020

CAN/ULC S102-18 DATA SHEETS

Standard: ULC S102

Page 1 of 2

Client: BarrierTek
Date: 12 19 2019
Project Number: 104182904
Test Number: 1
Operator: Sean Fewer
Specimen ID: PG36 on OSB

TEST RESULTS

FLAMESPREAD INDEX: 15
SMOKE DEVELOPED INDEX: 120

SPECIMEN DATA . . .

Time to Ignition (sec): 181
Time to Max FS (sec): 471
Maximum FS (mm): 2089.5
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 334
Time to Max Temperature (sec): 595
Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 8.5
Smoke Area (%A*min): 188.7
Unrounded FSI: 15.7
Unrounded SDI: 119.8

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: CF

CAN/ULC S102-18 DATA SHEETS

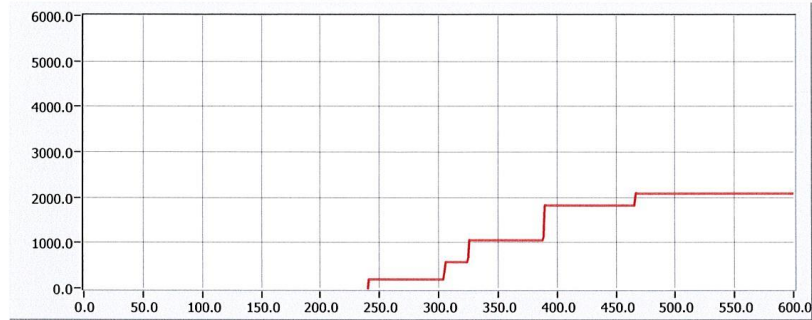
Client: BarrierTek

Specimen ID: PG36 on OSB

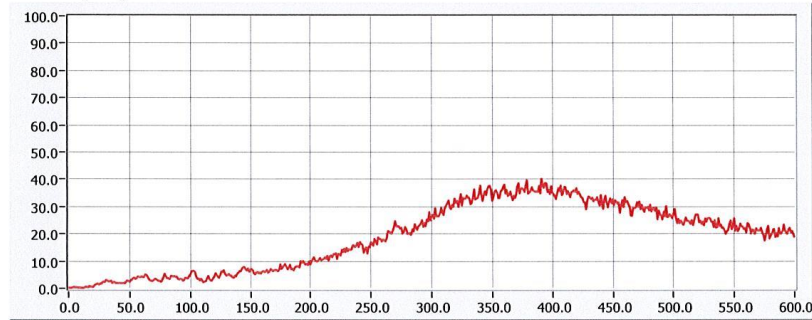
Test No.: 1

Standard: ULC S102

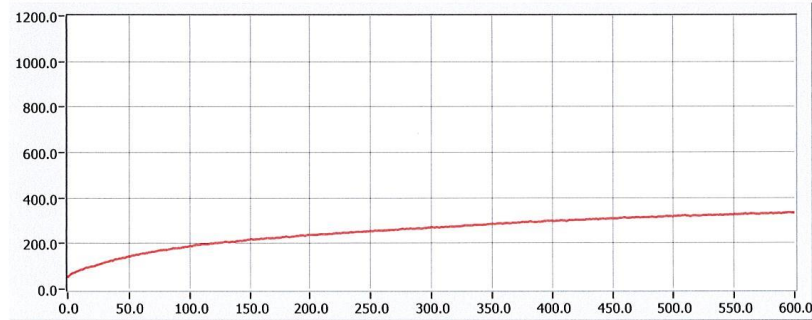
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: SF

Reviewed By: [Signature]

CAN/ULC S102-18 DATA SHEETS

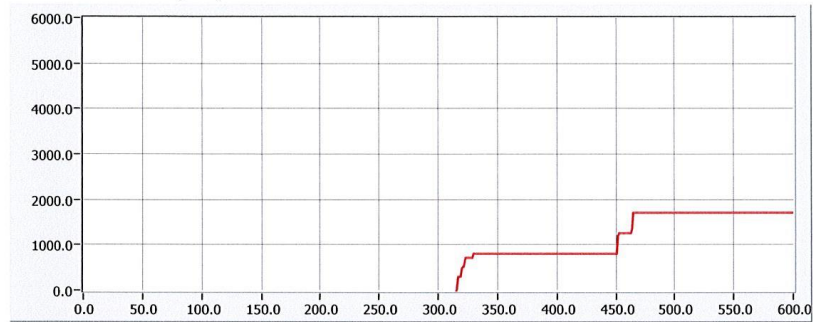
Client: BarrierTek

Specimen ID: PG41 on OSB

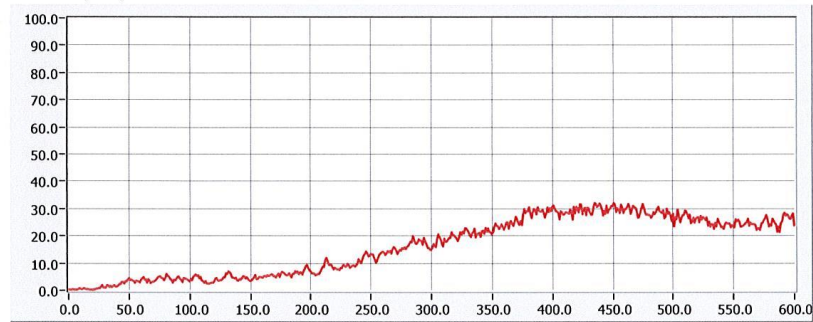
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Standard: ULC S102

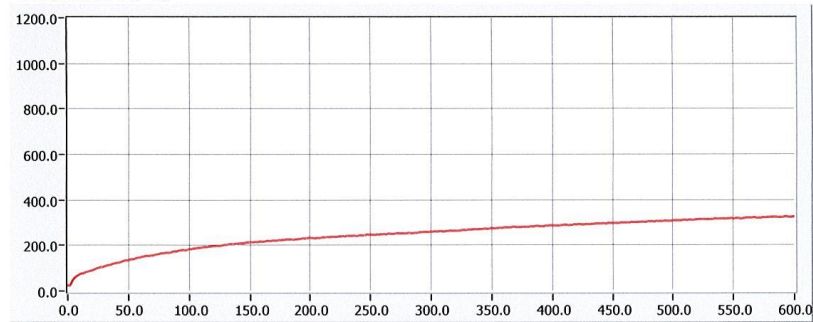
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: SF

Reviewed By: [Signature]