

FUNDERMAX NORTH AMERICA TEST REPORT

SCOPE OF WORK

REPORT OF TESTING FUNDERMAX 8 MM THICK WHITE CORE INTERIOR COMPACT PANELS 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

1041128836COQ-001 R0

TEST DATE(S)

12/09/19 - 12/09/19

ISSUE DATE

12/16/19

PAGES

14

DOCUMENT CONTROL NUMBER

GFT-OP-10c (AUGUST 27, 2018)

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TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

Date: 12/16/19

REPORT ISSUED TO

FUNDERMAX NORTH AMERICA

Suite 202. 2015 Ayrsley Town Blvd

Charlotte, NC 28273 USA

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by FunderMax North America. 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 FunderMax 8mm Thick White Core Interior Compact Panels. 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.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

The samples of FunderMax 8mm Thick White Core Interior Compact Panels submitted by FunderMax North America 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

TITLE: Technician – B&C

SIGNATURE:

DATE: 12/16/19



REVIEWED BY: Greg Philp

TITLE: Reviewer- B&C

SIGNATURE:

DATE: 12/16/19



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TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

Date: 12/16/19

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.

SECTION 5

EQUIPMENT

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
WH2189	Photocell	Huygen 856	11/27/20
WH 2190	Smoke Opacity Meter	Huygen	11/27/20
WH 2494	Data Logger	Yokogawa DA100	07/18/20

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Sean Fewer	Intertek B&C

TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

Date: 12/16/19

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 foot 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 was identified by the client as FunderMax 8mm Thick White Core Interior Compact 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.

TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

Date: 12/16/19

SECTION 9

TEST RESULTS

(A) Flame Spread

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

FunderMax 8mm Thick White Core Interior Compact Panels	Flame Spread	Flame Spread Rating
Run 1	63	70
Run 2	72	
Run 3	70	

(B) Smoke Developed

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

FunderMax 8mm Thick White Core Interior Compact Panels	Smoke Developed	Smoke Developed Classification
Run 1	214	155
Run 2	115	
Run 3	133	

(C) Observations

During the test runs, surface ignition occurred between 116 and 120 seconds; the flame then began to progress along the sample length until it reached the maximum flame spread.

TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

Date: 12/16/19

SECTION 10

CONCLUSION

The samples of FunderMax 8mm Thick White Core Interior Compact Panels submitted by Fundermax North America 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
FunderMax 8mm Thick White Core Interior Compact Panels	70	155

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.

TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

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Coquitlam, BC V3K 7C1

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SECTION 11

TEST DATA (6 PAGES)

TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

Date: 12/16/19

CAN/ULC S102-18 DATA SHEETS

Run 1

Standard: ULC S102

Page 1 of 2

Client: Fundermax

Date: 12 09 2019

Project Number: 104112883

Test Number: 1

Operator: Sean Fewer

Specimen ID: 8mm white core interior panel

TEST RESULTS

FLAMESPREAD INDEX: 65

SMOKE DEVELOPED INDEX: 215

SPECIMEN DATA . . .

Time to Ignition (sec): 120

Time to Max FS (sec): 300

Maximum FS (mm): 5783.8

Time to 527C (sec): 362

Time to End of Tunnel (sec): 301

Max Temperature (C): 697

Time to Max Temperature (sec): 600

Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 33.7

Smoke Area (%A*min): 336.4

Unrounded FSI: 63.5

Unrounded SDI: 213.6

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]

TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

Date: 12/16/19

CAN/ULC S102-18 DATA SHEETS

Run 1

Page 2 of 2

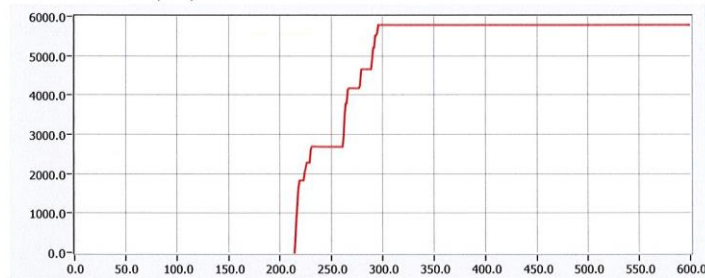
Client: Fundermax

Specimen ID: 8mm white core interior panel

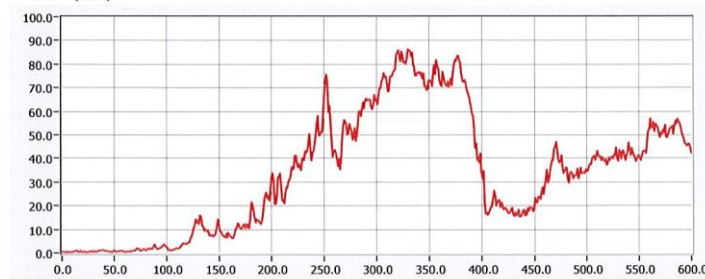
Test No.: 1

Standard: ULC S102

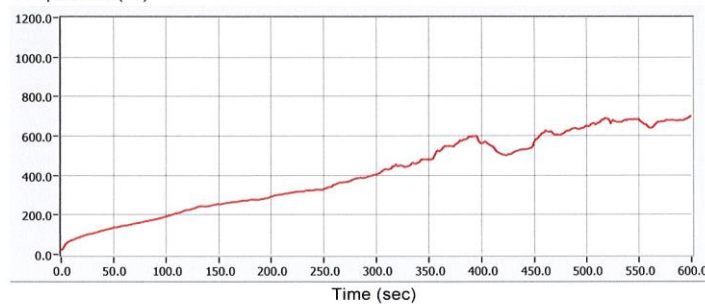
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Tested By: SF

Reviewed By: [Signature]

TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

Date: 12/16/19

CAN/ULC S102-18 DATA SHEETS

Run 2

Standard: ULC S102

Page 1 of 2

Client: Fundermax
Date: 12 09 2019
Project Number: 104112883
Test Number: 2
Operator: Sean Fewer
Specimen ID: 8mm white core interior panel

TEST RESULTS

FLAMESPREAD INDEX: 70

SMOKE DEVELOPED INDEX: 115

SPECIMEN DATA . . .

Time to Ignition (sec): 116
Time to Max FS (sec): 294
Maximum FS (mm): 5787.5
Time to 527C (sec): 309
Time to End of Tunnel (sec): 293
Max Temperature (C): 712
Time to Max Temperature (sec): 340
Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 36.7
Smoke Area (%A*min): 181.6
Unrounded FSI: 72.2
Unrounded SDI: 115.3

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]

TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

Date: 12/16/19

CAN/ULC S102-18 DATA SHEETS

Run 2

Page 2 of 2

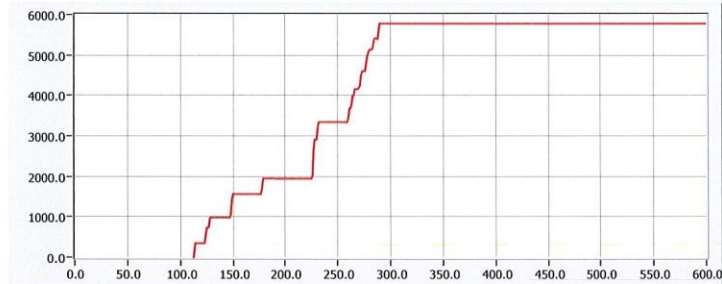
Client: Fundermax

Specimen ID: 8mm white core interior panel

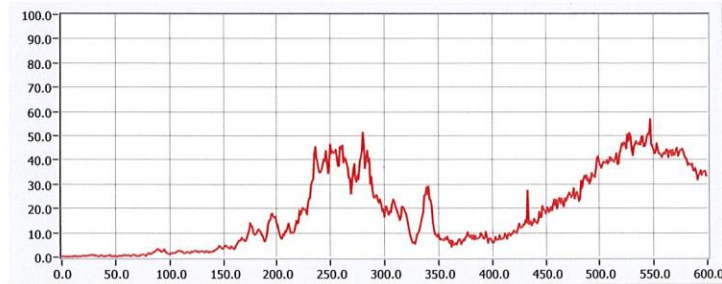
Test No.: 2

Standard: ULC S102

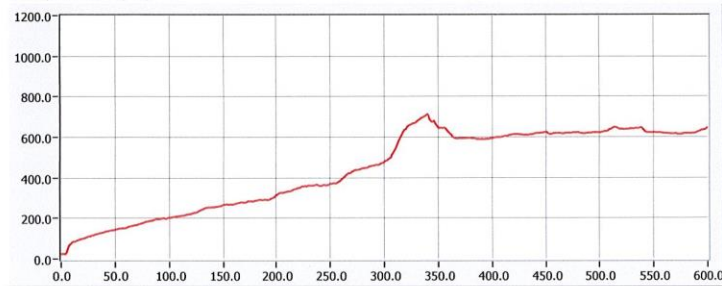
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)
600

Tested By: SF

Reviewed By: [Signature]

TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

Date: 12/16/19

CAN/ULC S102-18 DATA SHEETS

Run 3

Standard: ULC S102

Page 1 of 2

Client: Fundermax

Date: 12 11 2019

Project Number: 104112883

Test Number: 3

Operator: Sean Fewer

Specimen ID: 8mm white core interior panel

TEST RESULTS

FLAMESPREAD INDEX: 70

SMOKE DEVELOPED INDEX: 135

SPECIMEN DATA . . .

Time to Ignition (sec): 118

Time to Max FS (sec): 303

Maximum FS (mm): 5787.1

Time to 527C (sec): 328

Time to End of Tunnel (sec): 302

Max Temperature (C): 716

Time to Max Temperature (sec): 557

Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 36.0

Smoke Area (%A*min): 209.5

Unrounded FSI: 70.0

Unrounded SDI: 133.0

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]

TEST REPORT FOR FUNDERMAX NORTH AMERICA

Report No.: 1041128836COQ-001 R0

Date: 12/16/19

SECTION 12 PHOTOGRAPHS



Photo No. 1
Pre Test



Photo No. 2
Post Test



Total Quality. Assured.

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SECTION 13
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	12/16/19	N/A	Original Report Issue