

FUNDERMAX GMBH TEST REPORT

SCOPE OF WORK

REPORT OF TESTING 13 MM. THICK MAX COMPACT INTERIOR F QUALITY PANELS FOR COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CEITERIA: CAN/ULC S102-18, STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS AND ASSEMBLIES.

REPORT NUMBER

1038222120Q-001B R0

TEST DATE(S)

04/30/19 - 04/30/19

ISSUE DATE [REVISED DATE]

05/03/19 05/06/19

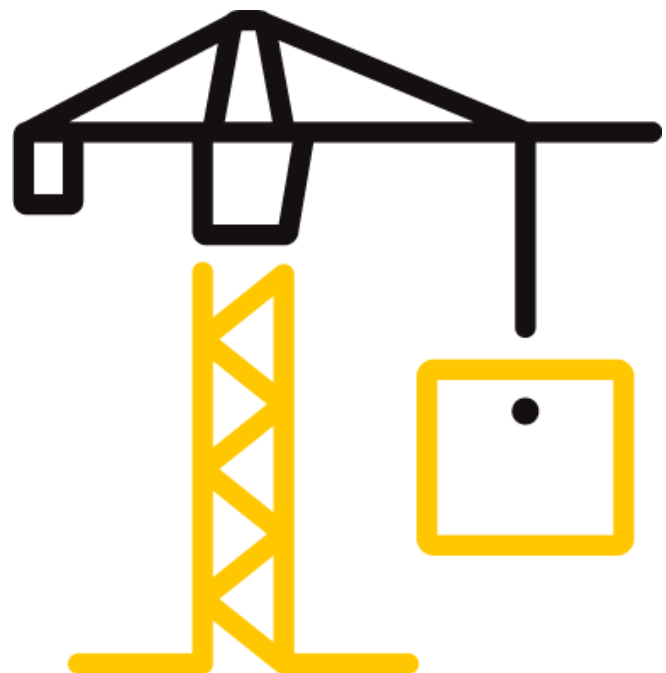
PAGES

14

DOCUMENT CONTROL NUMBER

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TEST REPORT FOR FUNDERMAX GMBH

Report No.: 1038222120Q-001B R0

Date: 05/03/19

REPORT ISSUED TO

FUNDERMAX GMBH

Klagenfurter Strasse 87-89

A-9300 Klagenfurt, Austria

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Fundermax GmbH. 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 13 mm. thick Max Compact Interior F Quality 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 13 mm. thick Max Compact Interior F Quality panels submitted by Fundermax GmbH. 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:	Greg Philp
TITLE:	Technician – B&C	TITLE:	Reviewer- B&C
SIGNATURE:		SIGNATURE:	
DATE:	05/03/19	DATE:	05/03/19

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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 sample material was received at the Evaluation Center on April 15, 2019.

SECTION 5

EQUIPMENT

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
WH2189	Photocell	Huygen 856	10/09/18
WH 2190	Smoke Opacity Meter	Huygen	10/09/18
WH 2494	Data Logger	Yokogawa DA100	07/18/18

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Sean Fewer	Intertek B&C
Greg Philp	Intertek B&C

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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 13 mm. thick Max Compact Interior F Quality 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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SECTION 9**TEST RESULTS****(A) Flame Spread**

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

13 mm. thick Max Compact Interior F Quality Panels	Flame Spread	Flame Spread Rating
Run 1	0	0
Run 2	0	
Run 3	0	

(B) Smoke Developed

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

13 mm. thick Max Compact Interior F Quality Panels	Smoke Developed	Smoke Developed Classification
Run 1	23	20
Run 2	20	
Run 3	23	

(C) Observations

During the test runs, there was no visible surface ignition.

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SECTION 10

CONCLUSION

The samples of 13 mm. thick Max Compact Interior F Quality Panels submitted by Fundermax GmbH 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
13 mm. thick Max Compact Interior F Quality Panels	0	20

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 GMBH

Report No.: 103822212OQ-001B R0

Date: 05/03/19

1500 Brigantine Drive
Coquitlam, BC V3K 7C1

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

SECTION 11

TEST DATA (6 PAGES)

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CAN/ULC S102-18 DATA SHEETS

Run 1

Standard: ULC S102

Page 1 of 2

Client: Fundermax GMBH
Date: 04 30 2019
Project Number: 103822212
Test Number: 1
Operator: Sean Fewer
Specimen ID: 1/2 in. max compact interior F quality panel

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 25

SPECIMEN DATA . . .

Time to Ignition (sec): 0
Time to Max FS (sec): 0
Maximum FS (mm): 0.0
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 269
Time to Max Temperature (sec): 592
Total Fuel Burned (cubic feet): 45.70
FS*Time Area (M*min): 0.0
Smoke Area (%A*min): 37.3
Unrounded FSI: 0.0
Unrounded SDI: 23.7

CALIBRATION DATA . . .

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

Tested By: SP

Reviewed By: [Signature]

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CAN/ULC S102-18 DATA SHEETS

Run 1

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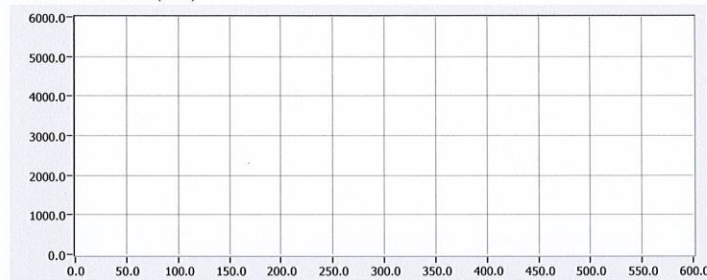
Client: Fundermax GMBH

Specimen ID: 1/2 in. max compact interior F quality

Test No.: 1

Standard: ULC S102

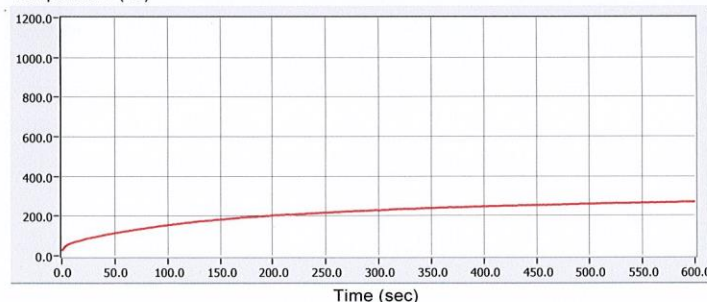
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



600

Tested By: SF

Reviewed By: [Signature]

TEST REPORT FOR FUNDERMAX GMBH

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CAN/ULC S102-18 DATA SHEETS

Run 2

Standard: ULC S102

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Client: Fundermax GMBH

Date: 04 30 2019

Project Number: 103822212

Test Number: 2

Operator: Sean Fewer

Specimen ID: 1/2 in. max compact interior F quality panel

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 20

SPECIMEN DATA . . .

Time to Ignition (sec): 0

Time to Max FS (sec): 0

Maximum FS (mm): 0.0

Time to 527 C (sec): Never Reached

Time to End of Tunnel (sec): Never Reached

Max Temperature (C): 270

Time to Max Temperature (sec): 599

Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 0.0

Smoke Area (%A*min): 31.2

Unrounded FSI: 0.0

Unrounded SDI: 19.8

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: [Signature]

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CAN/ULC S102-18 DATA SHEETS Run 2

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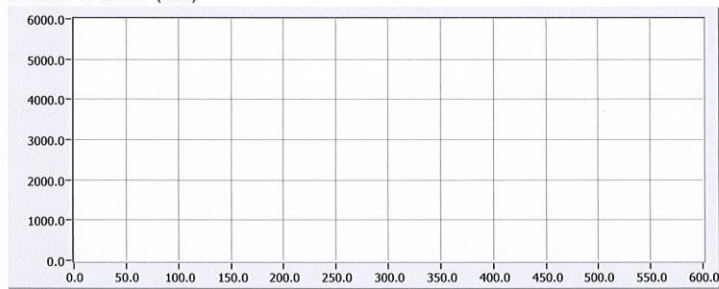
Client: Fundermax GMBH

Specimen ID: 1/2 in. max compact interior F quality

Test No.: 2

Standard: ULC S102

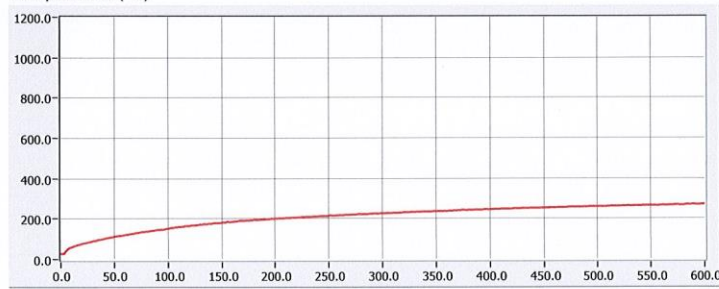
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: SF

Reviewed By: [Signature]

TEST REPORT FOR FUNDERMAX GMBH

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Date: 05/03/19

CAN/ULC S102-18 DATA SHEETS

Run 3

Standard: ULC S102

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Client: Fundermax GMBH

Date: 05 01 2019

Project Number: 103822212

Test Number: 3

Operator: Sean Fewer

Specimen ID: 1/2 in. max compact interior F quality panel

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 25

SPECIMEN DATA . . .

Time to Ignition (sec): 0

Time to Max FS (sec): 0

Maximum FS (mm): 0.0

Time to 527 C (sec): Never Reached

Time to End of Tunnel (sec): Never Reached

Max Temperature (C): 265

Time to Max Temperature (sec): 596

Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 0.0

Smoke Area (%A*min): 36.7

Unrounded FSI: 0.0

Unrounded SDI: 23.3

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 GMBH
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CAN/ULC S102-18 DATA SHEETS Run 3

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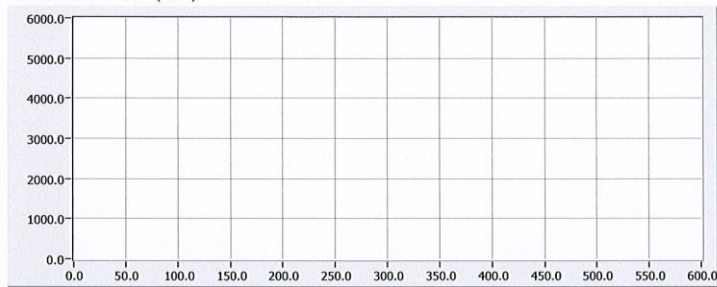
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Specimen ID: 1/2 in. max compact interior F quality

Test No.: 3

Standard: ULC S102

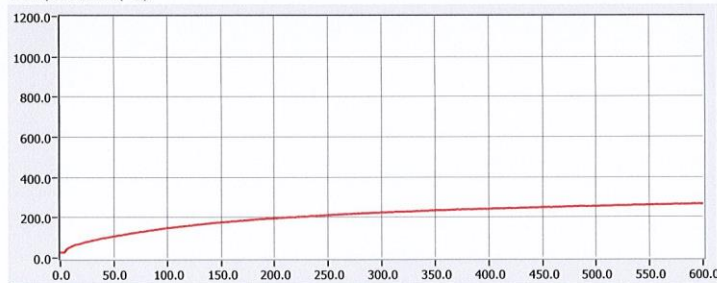
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: SP

Reviewed By: [Signature]

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SECTION 12 PHOTOGRAPHS



Photo No. 1
Pre Test



Photo No. 2
Post Test

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SECTION 13

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	05/03/19	N/A	Original Report Issue
1	05/06/19	Cover 2,4,5,6	Corrected Thickness From ½ in. to 13 mm.