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ROOS INTERNATIONAL LTD.
TEST REPORT

SCOPE OF WORK
REPORT OF TESTING NON-WOVEN ROOS INTERNATIONAL GLASS TEXTILE WALLCOVERING PRODUCT TEXTURGLAS GV250CR / NOVELLO GV250 FOR COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CEITERIA: CAN/ULC S102.2-18, STANDARD METHOD OF TESTING FOR SURFACE BURNING CHARACTERISTICS OF FLOORCOVERING, AND MISCELLANEOUS MATERIALS AND ASSEMBILIES.

REPORT NUMBER
103985060COQ-001 R0
TEST DATE(S)
07/16/19 - 07/16/19

ISSUE DATE
07/18/19

PAGES
15

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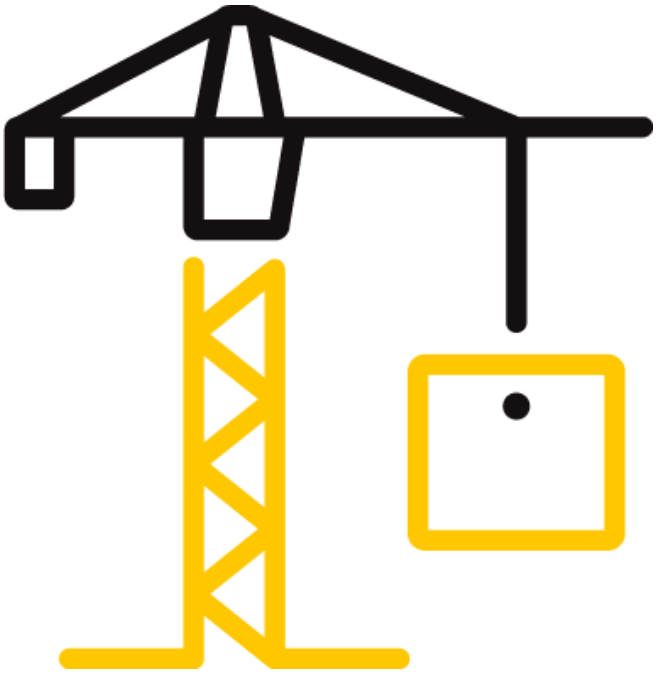

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TEST REPORT FOR ROOS INTERNATIONAL LTD.
Report No.: 103985060COQ-001 R0
Date: 07/18/19

REPORT ISSUED TO

Roos International Ltd.
1020 NW 6th St STE H
Deerfield Beach, FL 33442 USA

SECTION 1
SCOPE

Intertek Building & Construction (B&C) was contracted by Roos International Ltd. to perform testing in accordance with S102.2-18 Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies., on their Non-Woven Roos International Glass Textile Wallcovering product Texturglas GV250CR / Novelio GV250. 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 Non-Woven Roos International Glass Textile Wallcovering product Texturglas GV250CR / Novelio GV250 submitted by Roos International Ltd. were tested in accordance with S102.2-18, Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous 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:**	Senior Technician – B&C
SIGNATURE:		**SIGNATURE:**	
DATE:	07/18/19	**DATE:**	07/18/19

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SECTION 3
TEST METHOD(S)

The specimens were evaluated in accordance with the following:

CAN/ULC S102.2-18, *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous 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 June 18, 2019.

SECTION 5
EQUIPMENT

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
WH 2189	Photocell	Huygen 856	05/04/19
WH 2190	Smoke Opacity Meter	Huygen	05/04/19
WH 2494	Data Logger	Yokogawa DA100	07/18/19

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°C (73.4 $\pm$ 5°F) and 50 $\pm$ 5% relative humidity.

The sample material was identified by the client as Non-Woven Roos International Glass Textile Wallcovering product Texturglas GV250CR / Novelio GV250.

For each trial run, 17 3/8 in. wide by 24 ft. of sample material was placed on the floor of the tunnel. A layer of 6mm reinforced cement board was placed on the upper ledges of the tunnel, the tunnel lid was lowered into place, and the samples were then tested in accordance with CAN/ULC S102.2-18.

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SECTION 9
TEST RESULTS

(A) Flame Spread

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

Non-Woven Roos International Glass Textile Wallcovering product Texturglas GV250CR / Novelio GV250	Flame Spread	Flame Spread Rating
Run 1	33	35
Run 2	34	
Run 3	33	

(B) Smoke Developed

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

Non-Woven Roos International Glass Textile Wallcovering product Texturglas GV250CR / Novelio GV250	Smoke Developed	Smoked Developed Classification
Run 1	15	15
Run 2	17	
Run 3	19	

(C) Observations

During the test runs, surface ignition occurred at approximately 9 to 11 seconds; the flame then began to progress along the sample length until it reached the maximum flame spread. This was the case for all three test runs.

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SECTION 10
CONCLUSION

The samples of Non-Woven Roos International Glass Textile Wallcovering product Texturglas GV250CR / Novelio GV250 submitted by Roos International Ltd. exhibited the following flame spread characteristics when tested in accordance with S102.2-18, Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous 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
Non-Woven Roos International Glass Textile Wallcovering product Texturglas GV250CR / Novelio GV250	35	15

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.

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TEST DATA (6 PAGES)

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TEST REPORT FOR ROOS INTERNATIONAL LTD.
Report No.: 103985060COQ-001 R0
Date: 07/18/19

CAN/ULC S102.2-18 DATA SHEETS
Run 1

Standard: Canadian ULC S102.2

Client: Roos International
Date: 07 16 2019
Project Number: 103985060
Test Number: 1
Operator: Sean Fewer

Specimen ID: Non Woven Roos international glass textile wall covering product Textureglas
Notes

TEST RESULTS

FLAMESPREAD INDEX: 35

SMOKE DEVELOPED INDEX: 15

SPECIMEN DATA . . .

Time to Ignition (sec): 9
Time to Max FS (sec): 571
Maximum FS (mm): 3878.8
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 251
Time to Max Temperature (sec): 588
Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 18.1
Smoke Area (%A*min): 24.0
Unrounded FSI: 33.4
Unrounded SDI: 15.2

CALIBRATION DATA . . .

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

Tested By: S.F

Reviewed By:

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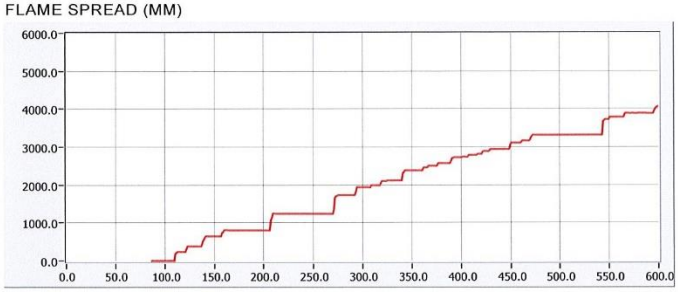
TEST REPORT FOR ROOS INTERNATIONAL LTD.
Report No.: 103985060COQ-001 R0
Date: 07/18/19

CAN/ULC S102.2-18 DATA SHEETS
Run 1

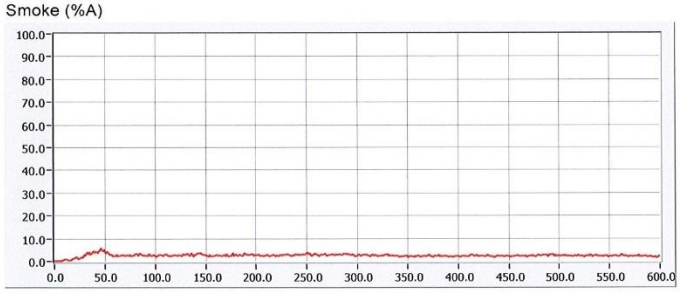
Client: Roos International Specimen ID: Non Woven Roos international glass

Test No.: 103985060 Standard: Canadian ULC S102.2

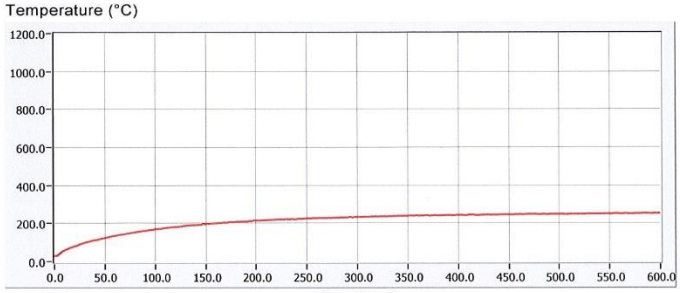
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: S.F Reviewed By:

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TEST REPORT FOR ROOS INTERNATIONAL LTD.
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CAN/ULC S102.2-18 DATA SHEETS
Run 2

Standard: Canadian ULC S102.2

Client: Roos international
Date: 07 16 2019
Project Number: 103985060
Test Number: 2
Operator: Sean Fewer

Specimen ID: Non Woven Roos International glass textile wall covering product Textureglas
Notes

TEST RESULTS

FLAMESPREAD INDEX: 35
SMOKE DEVELOPED INDEX: 15

SPECIMEN DATA . . .

Time to Ignition (sec): 9
Time to Max FS (sec): 582
Maximum FS (mm): 3939.6
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 244
Time to Max Temperature (sec): 564
Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 18.1
Smoke Area (%A*min): 26.8
Unrounded FSI: 33.5
Unrounded SDI: 17.0

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:

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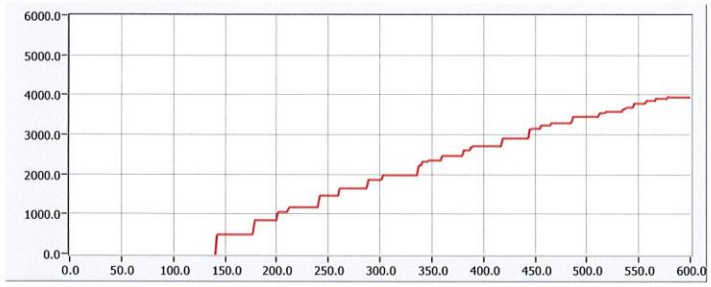
TEST REPORT FOR ROOS INTERNATIONAL LTD.
Report No.: 103985060COQ-001 R0
Date: 07/18/19

CAN/ULC S102-18 DATA SHEETS
Run 2

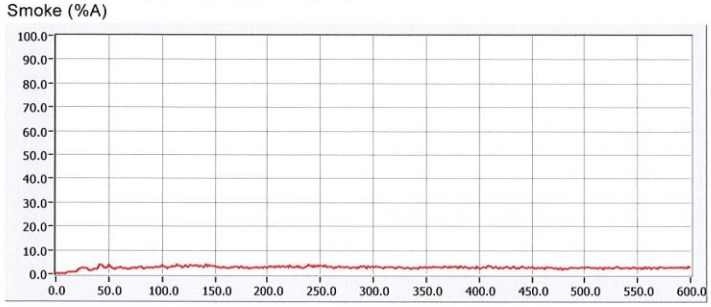
Client: Roos international Specimen ID: Non Woven Roos International glass

Test No.: 103985060 Standard: Canadian ULC S102.2

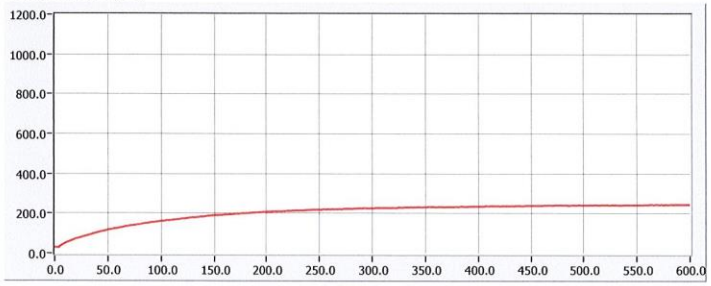
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

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TEST REPORT FOR ROOS INTERNATIONAL LTD.
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CAN/ULC S102.2-18 DATA SHEETS
Run 3

Standard: Canadian ULC S102.2

Client: Roos International
Date: 07 16 2019
Project Number: 103985060
Test Number: 3
Operator: Sean Fewer

Specimen ID: Non woven Roos International glass textile wall covering product textureglas
Notes

TEST RESULTS

FLAMESPREAD INDEX: 35
SMOKE DEVELOPED INDEX: 20

SPECIMEN DATA . . .

Time to Ignition (sec): 11
Time to Max FS (sec): 590
Maximum FS (mm): 4060.4
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 241
Time to Max Temperature (sec): 589
Total Fuel Burned (cubic feet): 45.70

FS*Time Area (M*min): 17.8
Smoke Area (%A*min): 29.9
Unrounded FSI: 33.0
Unrounded SDI: 19.0

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:

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TEST REPORT FOR ROOS INTERNATIONAL LTD.
Report No.: 103985060COQ-001 R0
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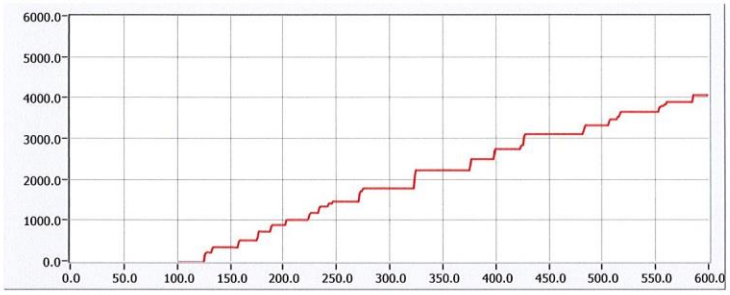
CAN/ULC S102.2-18 DATA SHEETS
Run 3

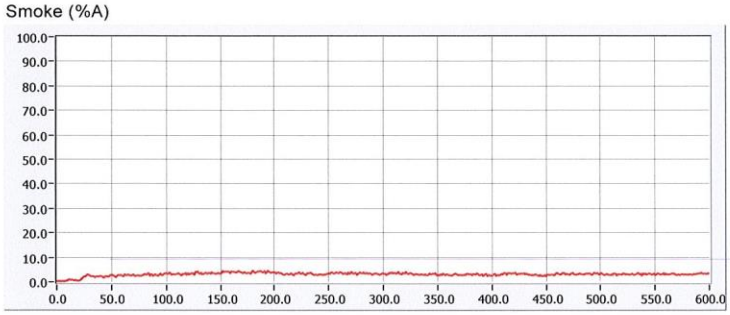
Client: Roos International Specimen ID: Non woven Roos International glass

Test No.: 103985060 Standard: Canadian ULC S102.2

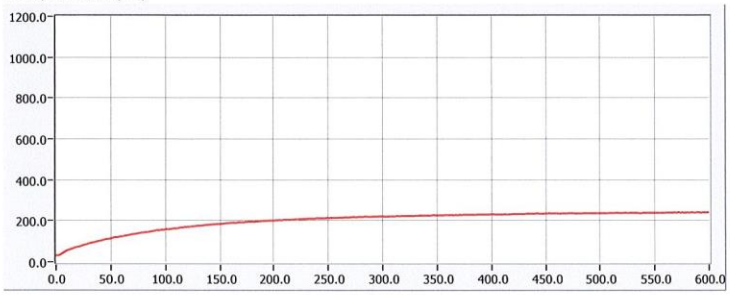
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: SF Reviewed By: _____

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TEST REPORT FOR ROOS INTERNATIONAL LTD.
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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	07/18/19	N/A	Original Report Issue