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Wayne Building Products Inc.

TEST REPORT

REPORT ISSUED TO
Wayne Building Products Inc.
12603-123 Street
Edmonton, AB T5L 0H9

SCOPE OF WORK
Report of testing 6 in. wide Lux V Groove Steel Panels for compliance with the applicable requirements of the following criteria: CAN/ULC S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

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103251249COQ-001

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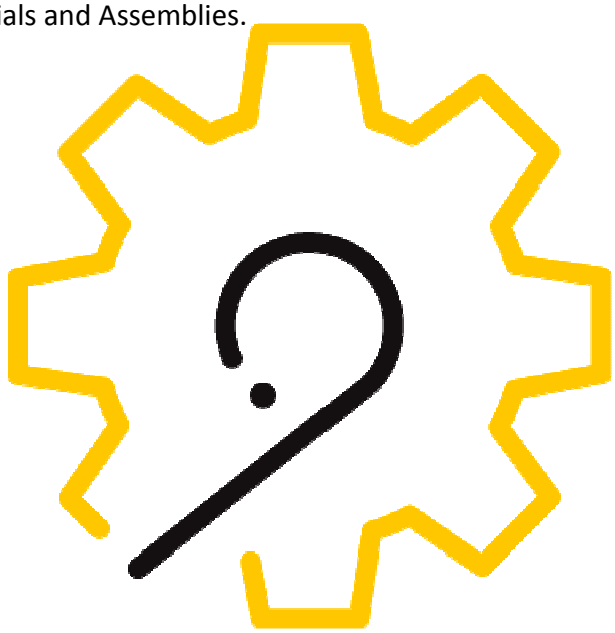

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TEST REPORT FOR WAYNE BUILDING PRODUCTS INC.

Report No.: 103251249
Date: October 11, 2017

CONCLUSION

The samples of 6 in. wide Lux V Groove Steel Panels, submitted by Wayne Building Products Inc., were tested in accordance with CAN/ULC S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

The product test results are presented in Section 7 of this report.

Salvatore Balletta
TECHNICIAN
BUILDING PRODUCTS

Greg Philp
Reviewer
BUILDING PRODUCTS CANADA

SECTION 1
INDEX

SECTION 2
OBJECTIVE

Intertek Testing Services NA Ltd. (Intertek) has conducted testing for Wayne Building Products Inc. to evaluate the surface burning characteristics of 6 in. wide Lux V Groove Steel Panels. Testing was conducted in accordance with the standard methods of CAN/ULC S102-10, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

This evaluation began October 11, 2017 and was completed October 11, 2017.

SECTION 3
SAMPLE SELECTION

Samples were submitted to Intertek directly from the client and were not independently selected for testing. The sample material was received at the Evaluation Center on September 20, 2017.

SECTION 4
SAMPLE ASSEMBLY AND 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 ± 3°C (73.4 ± 5°F) and 50 ± 5% relative humidity.

The sample material was identified by the client as a 6 in. wide Lux V Groove Steel Panels.

For each trial run, Four 6 in. wide by 6 ft. long pieces were screwed together using steel splines to form 24 in. wide sample panels. Four panels were then butted together end to end to form the required 24 ft. sample length and placed on the upper ledge of the flame spread tunnel. 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 S102-10.

SECTION 5
TESTING AND EVALUATION METHODS

TEST STANDARD

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 6
RESULTS AND OBSERVATIONS

(A) Flame Spread

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

6 in. wide Lux V Groove Steel Panels	Flame Spread	Flame Spread Rating
Run 1	0	0
Run 2	2	
Run 3	2	

(B) Smoke Developed

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

6 in. wide Lux V Groove Steel Panels	Smoke Developed	Smoked Developed Classification
Run 1	5	5
Run 2	4	
Run 3	6	

(C) Observations

During the test runs, there was no visible surface ignition. This was the case for all three test runs.

SECTION 7
CONCLUSION

The samples of 6 in. wide Lux V Groove Steel Panels submitted by Wayne Building Products Inc., exhibited the following flame spread characteristics when tested in accordance with CAN/ULC S102-10, 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
6 in. wide Lux V Groove Steel Panels	0	5

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.

SECTION 8

APPENDIX A: TEST DATA (6 PAGES)

CAN/ULC S102-10 DATA SHEETS
Run 1

Standard: ULC S102 Page 1 of 2

Client: Wayne Building Products
Date: 10 11 2017
Project Number: 103251249
Test Number: 1
Operator: Salvatore Balletta

Specimen ID: Lux V Groove Steel Panels 6 in. wide (Brown)

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 5

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):	297
Time to Max Temperature (sec):	599
Total Fuel Burned (cubic feet):	46.01
FS*Time Area (M*min):	0.0
Smoke Area (%A*min):	9.4
Unrounded FSI:	0.0
Unrounded SDI:	5.2

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec):	42.0
Red Oak Smoke Area (%A*min):	179.0

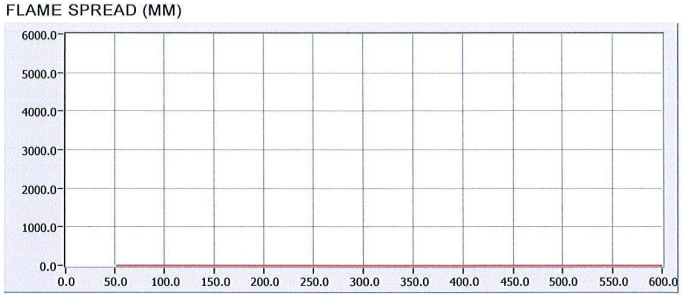
Tested By: _____ Reviewed By: _____

CAN/ULC S102-10 DATA SHEETS
Run 1

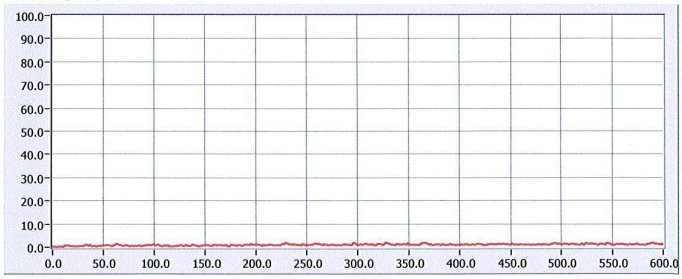
Client: Wayne Building Products Specimen ID: Lux V Groove Steel Panels 6 in. wide

Test No.: 1 Standard: ULC S102

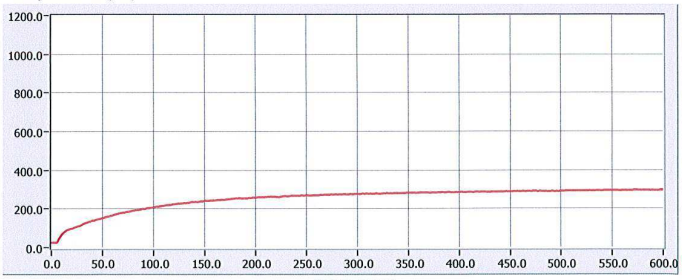
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: _____ Reviewed By: _____

CAN/ULC S102-10 DATA SHEETS
Run 2

Standard: ULC S102 Page 1 of 2

Client: Wayne Building Products
Date: 10 11 2017
Project Number: 103251249
Test Number: 2
Operator: Salvatore Balletta

Specimen ID: Lux V Groove Steel Panels 6 in. wide (Brown)

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 5

SPECIMEN DATA . . .

Time to Ignition (sec): 0
Time to Max FS (sec): 152
Maximum FS (mm): 131.5
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 296
Time to Max Temperature (sec): 597
Total Fuel Burned (cubic feet): 46.01

FS*Time Area (M*min): 1.2
Smoke Area (%A*min): 6.2
Unrounded FSI: 2.2
Unrounded SDI: 3.5

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 42.0
Red Oak Smoke Area (%A*min): 179.0

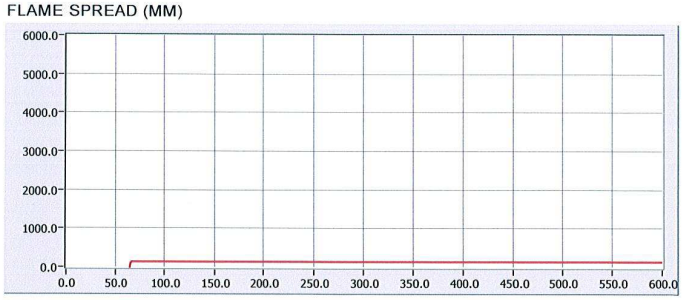
Tested By: _____ Reviewed By: _____

CAN/ULC S102-10 DATA SHEETS
Run 2

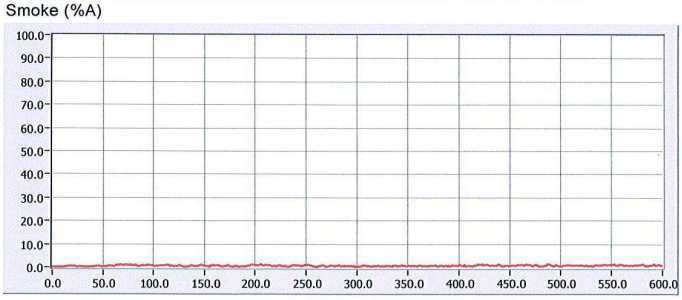
Client: Wayne Building Products Specimen ID: Lux V Groove Steel Panels 6 in. wide

Test No.: 2 Standard: ULC S102

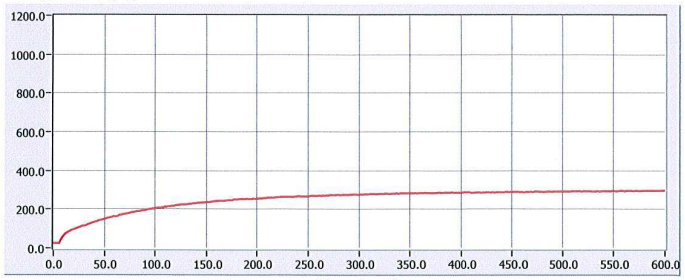
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: _____ Reviewed By: _____

CAN/ULC S102-10 DATA SHEETS
Run 3

Standard: ULC S102

Client: Wayne Building Products
Date: 10 11 2017
Project Number: 103251249
Test Number: 3
Operator: Salvatore Balletta

Specimen ID: Lux V Groove Steel Panels 6 in. wide (Brown)

TEST RESULTS

FLAMESPREAD INDEX: 0

SMOKE DEVELOPED INDEX: 5

SPECIMEN DATA . . .

Time to Ignition (sec): 0
Time to Max FS (sec): 110
Maximum FS (mm): 109.2
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): Never Reached
Max Temperature (C): 297
Time to Max Temperature (sec): 595
Total Fuel Burned (cubic feet): 46.01

FS*Time Area (M*min): 1.0
Smoke Area (%A*min): 11.6
Unrounded FSI: 1.8
Unrounded SDI: 6.5

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 42.0
Red Oak Smoke Area (%A*min): 179.0

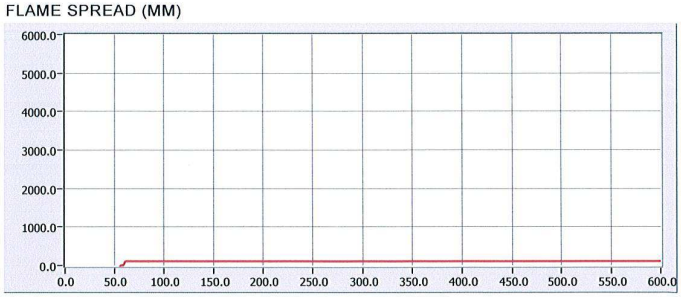
Tested By: _____ Reviewed By: _____

CAN/ULC S102-10 DATA SHEETS
Run 3

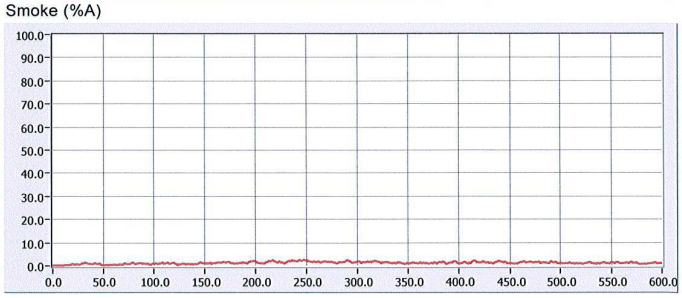
Client: Wayne Building Products Specimen ID: Lux V Groove Steel Panels 6 in. wide

Test No.: 3 Standard: ULC S102

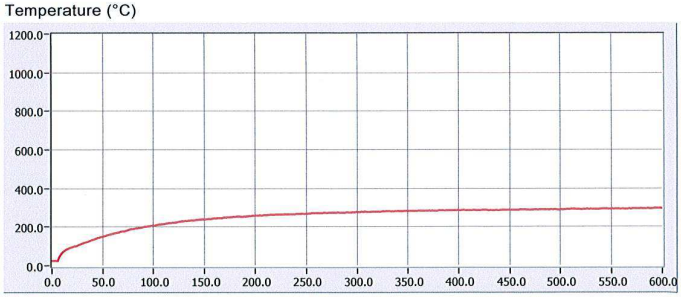
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: Reviewed By:

REVISION SUMMARY

DATE	PAGE	SUMMARY
October 11, 2017	All	