



REPORT NUMBER: 100737475COQ-002b
ORIGINAL ISSUE DATE: June 27, 2012

EVALUATION CENTER
Intertek Testing Services NA Ltd.
1500 Brigantine Drive
Coquitlam, B.C. V3K 7C1

RENDERED TO

Finium
101 Rue Industrielle
Frampton QC G0R 1M0

PRODUCT EVALUATED: Walnut Wall Panels
EVALUATION PROPERTY: Surface Burning Characteristics

Report of testing Walnut Wall 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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TEST REPORT

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2 Introduction

Intertek Testing Services NA Ltd. (Intertek) has conducted testing for Finium to evaluate the surface burning characteristics of Walnut Wall 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 June 19, 2012 and was completed June 20, 2012.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were randomly selected on May 29, 2012 by Intertek representative Charles Young, at the Finium facility located at 101 Rue Industrielle, Frampton, QC. The sample materials were received at the Evaluation Center on June 11, 2012.

The subject test specimen is a traceable sample selected from the manufacturer's facility. Intertek selected the specimen and has verified the composition, manufacturing techniques and quality assurance procedures.

SAMPLE AND ASSEMBLY 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 products were described as nominal 0.38 in. thick by 13 ½ in. wide by 53 ½ in. long wall panels. The panel was identified by the client as "FriendlyWall Jazz Collection Walnut Wall Panels".

For each trial run, the panels were fitted together using wood furring strips to make up the required 24 in. by 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.

4 Testing and Evaluation Methods

4.1. 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 asbestos-cement board.

(A) Flame Spread Classification:

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.

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

(A) Flame Spread

The resultant flame spread classifications are as follows:
(Classification rounded to nearest 5)

| FriendlyWall Jazz Collection Walnut Wall Panels | Flame Spread | Flame Spread Classification |
|--|---------------------|--|
| Run 1 | 92 | 90 |
| Run 2 | 80 | |
| Run 3 | 93 | |

(B) Smoke Developed

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

| FriendlyWall Jazz Collection Walnut Wall Panels | Smoke Developed | Smoked Developed Classification |
|--|------------------------|--|
| Run 1 | 201 | 215 |
| Run 2 | 260 | |
| Run 3 | 188 | |

(C) Observations

During the tests, the sample surface ignited at approximately 28 to 37 seconds, and the flame began to progress along the sample until it reached the maximum flame spread.

6 Conclusion

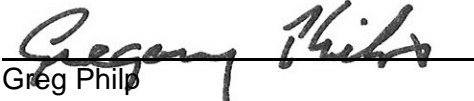
The FriendlyWall Jazz Collection Walnut Wall Panels, submitted by Finium, exhibited the following flame spread characteristics when tested in accordance CAN/ULC S102-10, *Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies*.

A series of three test runs of each material was conducted to conform to the requirements of the National Building Code of Canada.

| Sample Material | Flame Spread Classification | Smoke Developed Classification |
|---|-----------------------------|--------------------------------|
| FriendlyWall Jazz Collection Walnut Wall Panels | 90 | 215 |

The conclusions of this test report may be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

INTERTEK TESTING SERVICES NA LTD.

Tested and
Reported by: 
Greg Philp
Technician – Building Products Testing

Reviewed by: 
Kal Kooner, P.Eng.
Manager – Building Products

APPENDIX A

DATA SHEETS

CAN/ULC S102-10 DATA SHEETS Run 1

Page 2 of 2

Client: Finium

Specimen ID: FriendlyWall Jazz Collection Walnut 13.5

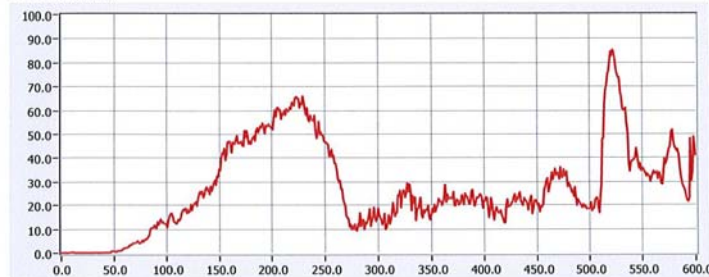
Test No.: 1

Standard: ULC S102

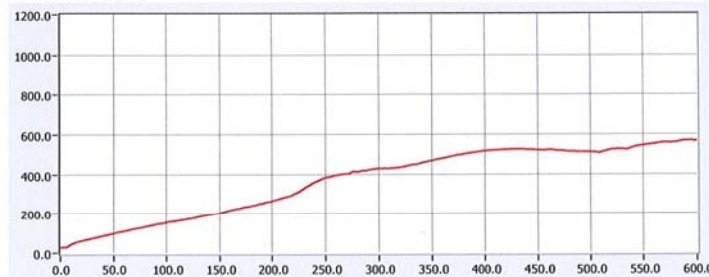
FLAME SPREAD (MM)



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: Finium
Date: 06 19 2012
Project Number: 100737475
Test Number: 2
Operator: Greg Philp

Specimen ID: friendlyWall Jazz Collection Walnut 13.5 in wide x 53.5 in fong wall panels
(Reference Walnut)

TEST RESULTS

FLAMESPREAD INDEX: 80

SMOKE DEVELOPED INDEX: 260

SPECIMEN DATA . . .

Time to Ignition (sec): 37
Time to Max FS (sec): 315
Maximum FS (mm): 5861.1
Time to 527 C (sec): Never Reached
Time to End of Tunnel (sec): 315
Max Temperature (C): 517
Time to Max Temperature (sec): 597
Total Fuel Burned (cubic feet): 38.44

FS*Time Area (M*min): 38.8
Smoke Area (%A*min): 351.6
Unrounded FSI: 79.5
Unrounded SDI: 259.5

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 46.0
Red Oak Smoke Area (%A*min): 135.5

Tested By: 3

Reviewed By: K

CAN/ULC S102-10 DATA SHEETS Run 3

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Client: Finium

Specimen ID: FriendlyWall Jazz Collection Walnut 13.5

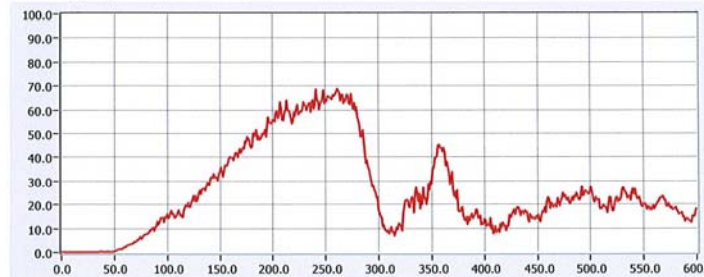
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Standard: ULC S102

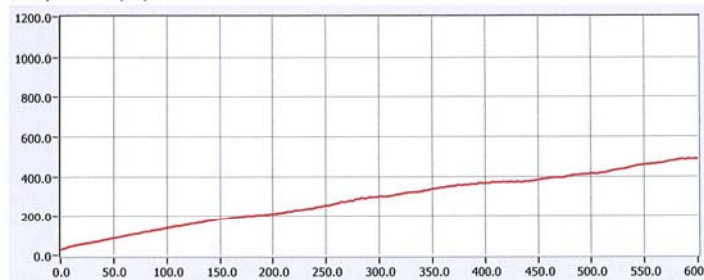
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By:

Reviewed By:

REVISION SUMMARY

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