TEST REPORT

REPORT NUMBER: 102402274COQ-001
ORIGINAL ISSUE DATE: December 23, 2015

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

RENDERED TO

Decospan NV
Industriezone Grensland
Lageweg 33
Menen 8930 BEL

PRODUCT EVALUATED: White Oak Veneer and MDF Panels
EVALUATION PROPERTY: Surface Burning Characteristics

Report of testing White Oak Veneer and MDF 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.*

1 Table of Contents

2 Introduction

Intertek Testing Services NA Ltd. (Intertek) has conducted testing for Decospan NV, to evaluate the surface burning characteristics of White Oak Veneer adhered to MDF 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 December 23, 2015 and was completed the same day.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client and were not independently selected for testing. The sample panels were received at the Evaluation Center on December 21, 2015.

3.2. 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 ± 3°C (73.4 ± 5°F) and 50 ± 5% relative humidity.

The sample panels measured 24 in. wide by 8 ft. long by ¾ in. thick and consisted of a White Oak Veneer adhered to ¾ in. thick MDF.

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 S102-10.

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 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.

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

(A) Flame Spread

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

White Oak Veneer adhered to MDF	Flame Spread	Flame Spread Rating
Run 1	109	110
Run 2	107	
Run 3	107	

(B) Smoke Developed

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

White Oak Veneer adhered to MDF	Smoke Developed	Smoked Developed Classification
Run 1	67	75
Run 2	89	
Run 3	72	

(C) Observations

During the tests, the sample surface ignited at approximately 42 to 49 seconds; the flame began to progress along the sample until it reached the maximum flame spread.

6 Conclusion

The White Oak Veneer adhered to ¾ in. thick MDF, submitted by Decospan NV, 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 were conducted to conform to the requirements of the National Building Code of Canada.

Sample	Flame Spread Rating	Smoke Developed Classification
White Oak Veneer adhered to MDF	110	75

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.

INTERTEK TESTING SERVICES NA LTD.

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

Reviewed by: _____
Riccardo DeSantis
Manager – Building Products

GP

APPENDIX A

DATA SHEETS

CAN/ULC S102-10 DATA SHEETS
Run 1

Standard: ULC S102

Page 1 of 2

Client: Decospan NV
Date: 12 23 2015
Project Number: 102402274
Test Number: 1
Operator: Greg Philp

Specimen ID: White Oak Veneer adhered to 3/4 in. thick MDF

TEST RESULTS

FLAMESPREAD INDEX: 110

SMOKE DEVELOPED INDEX: 65

SPECIMEN DATA . . .

Time to Ignition (sec): 42
Time to Max FS (sec): 269
Maximum FS (mm): 5795.0
Time to 527C (sec): 288
Time to End of Tunnel (sec): 270
Max Temperature (C): 656
Time to Max Temperature (sec): 577
Total Fuel Burned (cubic feet): 47.00

FS*Time Area (M*min): 44.4
Smoke Area (%A*min): 115.4
Unrounded FSI: 108.8
Unrounded SDI: 66.6

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 39.0
Red Oak Smoke Area (%A*min): 173.4

Tested By: _____

Reviewed By: _____

CAN/ULC S102-10 DATA SHEETS
Run 1

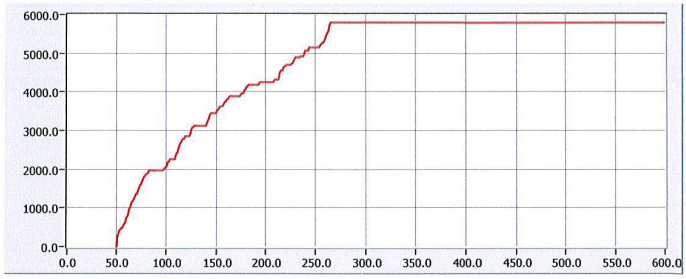
Client: Decospan NV

Specimen ID: White Oak Veneer adhered to 3/4 in.

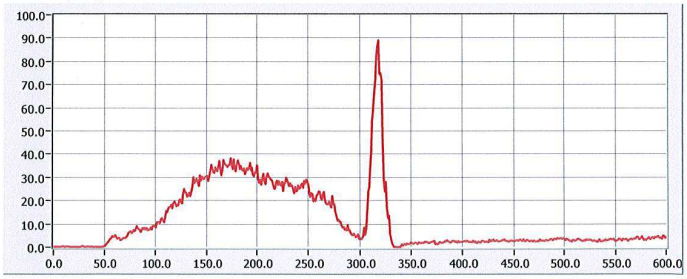
Test No.: 1

Standard: ULC S102

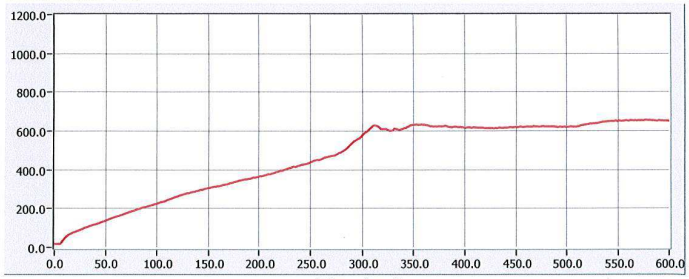
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: _____

Reviewed By: RD

CAN/ULC S102-10 DATA SHEETS
Run 2

Standard: ULC S102

Client: Decospan NV
Date: 12 23 2015
Project Number: 102402274
Test Number: 2
Operator: Greg Philp

Specimen ID: White Oak Veneer adhered to 3/4 in. thick MDF

TEST RESULTS

FLAMESPREAD INDEX: 105

SMOKE DEVELOPED INDEX: 90

SPECIMEN DATA . . .

Time to Ignition (sec): 41
Time to Max FS (sec): 283
Maximum FS (mm): 5789.7
Time to 527C (sec): 281
Time to End of Tunnel (sec): 281
Max Temperature (C): 727
Time to Max Temperature (sec): 600
Total Fuel Burned (cubic feet): 47.00

FS*Time Area (M*min): 44.1
Smoke Area (%A*min): 153.4
Unrounded FSI: 107.1
Unrounded SDI: 88.5

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 39.0
Red Oak Smoke Area (%A*min): 173.4

Tested By: _____ Reviewed By: _____

CAN/ULC S102-10 DATA SHEETS
Run 2

Page 2 of 2

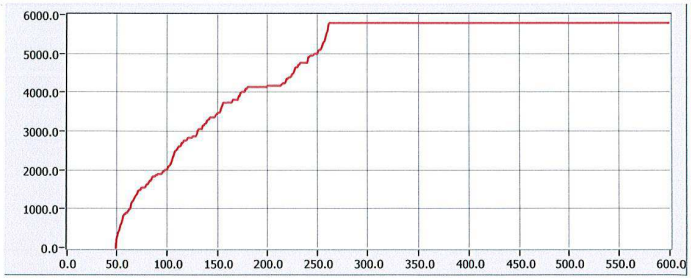
Client: Decospan NV

Specimen ID: White Oak Veneer adhered to 3/4 in.

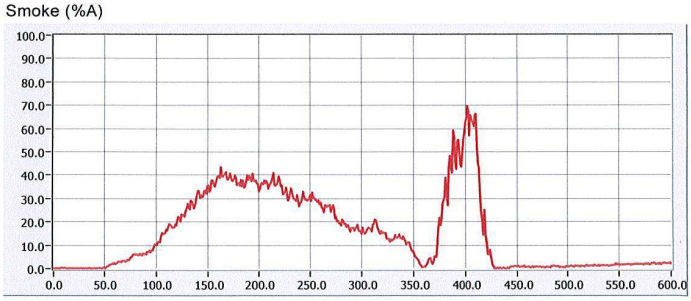
Test No.: 2

Standard: ULC S102

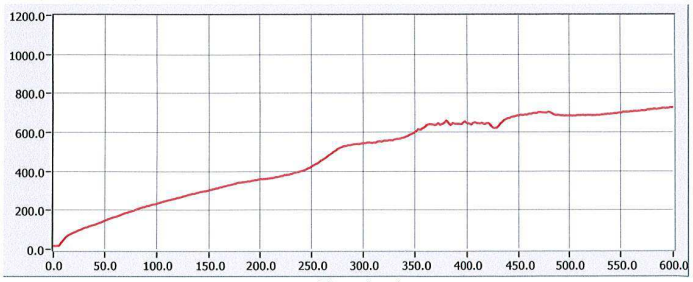
FLAME SPREAD (MM)



Smoke (%A)



Temperature (°C)



Time (sec)

600

Tested By: _____

Reviewed By: _____

CAN/ULC S102-10 DATA SHEETS
Run 3

Standard: ULC S102

Client: Decospan NV
Date: 12 23 2015
Project Number: 102402274
Test Number: 3
Operator: Greg Philp

Specimen ID: White Oak Veneer adhered to 3/4 in. thick MDF

TEST RESULTS

FLAMESPREAD INDEX: 105

SMOKE DEVELOPED INDEX: 70

SPECIMEN DATA . . .

Time to Ignition (sec): 49
Time to Max FS (sec): 223
Maximum FS (mm): 5794.6
Time to 527C (sec): 237
Time to End of Tunnel (sec): 230
Max Temperature (C): 631
Time to Max Temperature (sec): 415
Total Fuel Burned (cubic feet): 47.00

FS*Time Area (M*min): 44.2
Smoke Area (%A*min): 125.0
Unrounded FSI: 107.4
Unrounded SDI: 72.1

CALIBRATION DATA . . .

Time to Ignition of Last Red Oak (Sec): 39.0
Red Oak Smoke Area (%A*min): 173.4

Tested By: _____ Reviewed By: _____

CAN/ULC S102-10 DATA SHEETS
Run 3

Page 2 of 2

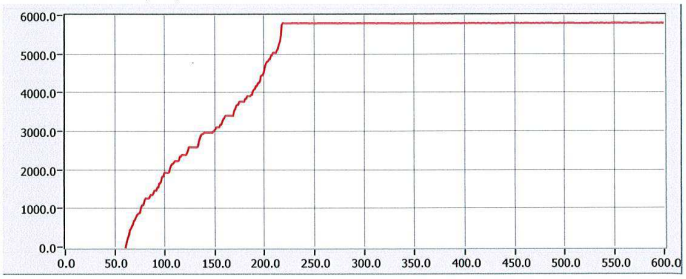
Client: Decospan NV

Specimen ID: White Oak Veneer adhered to 3/4 in.

Test No.: 3

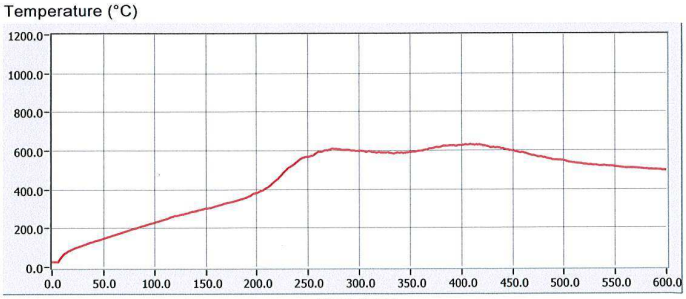
Standard: ULC S102

FLAME SPREAD (MM)



Smoke (%A)

Temperature (°C)



Time (sec)

600

Tested By: _____

Reviewed By: RD

REVISION SUMMARY

DATE	PAGE(S)	SUMMARY
December 23, 2015	All	Original Issue Date