

DECORAL SYSTEM USA CORPORATION TEST REPORT

SCOPE OF WORK

REPORT OF TESTING DECORAL DECORATIVE POWDER COATING WOOD GRAIN FINISH ON ALUMINUM SHEETS FOR COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CRITERIA: CAN/ULC S102-18, STANDARD METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS AND ASSEMBLIES.

REPORT NUMBER

1043061210Q-001 R0

TEST DATE(S)

05/28/20 - 05/28/20

ISSUE DATE

05/28/20

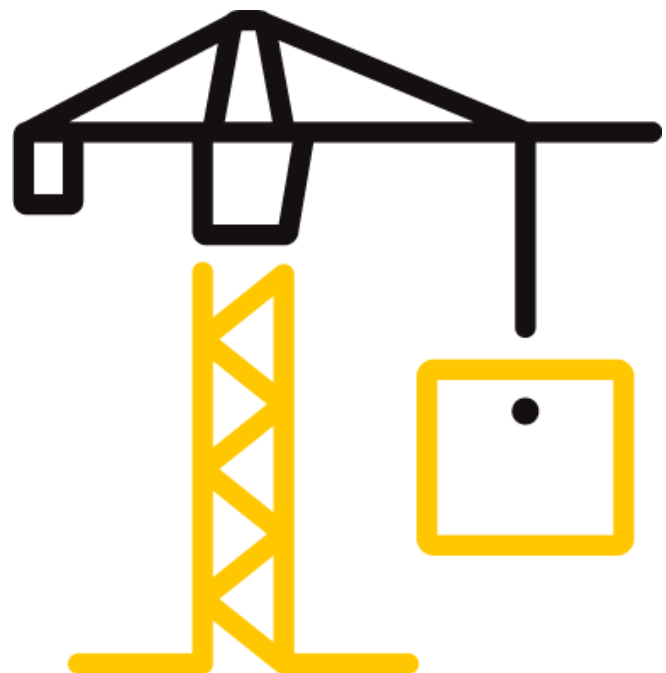
PAGES

15

DOCUMENT CONTROL NUMBER

GFT-OP-10c (AUGUST 27, 2018)

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TEST REPORT FOR DECORAL SYSTEM USA CORPORATION

Report No.: 1043061210Q-001 R0

Date: 05/28/20

REPORT ISSUED TO

DECORAL SYSTEM USA CORPORATION

12477 NW 44th Street

Coral Springs, FL 33065 USA

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Decoral System USA Corporation 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 Decoral decorative powder coating wood grain finish on aluminum sheets. 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 Decoral decorative powder coating wood grain finish on aluminum sheets submitted by Decoral Decorative System USA Corporation 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:	Salvatore Balletta	REVIEWED BY:	Greg Philp
TITLE:	Technician – B&C	TITLE:	Reviewer – B&C
SIGNATURE:		SIGNATURE:	
DATE:	05/28/20	DATE:	05/28/20

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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.

SECTION 5

EQUIPMENT

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
WH2189	Photocell	Huygen 856	02/28/21
WH 2190	Smoke Opacity Meter	Huygen	02/28/21
WH 1052	Data Logger	Phidgets DAQ 2020	02/28/21

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Salvatore Balletta	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 2 ft. x 2 ft. Decoral decorative powder coating wood grain finish on aluminum sheets.

For each trial run, twelve 2 ft. long by 2 ft. 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)

Decoral decorative powder coating wood grain finish on aluminum sheets	Flame Spread	Flame Spread Rating
Run 1	11	15
Run 2	15	
Run 3	17	

(B) Smoke Developed

The areas beneath the smoke developed curve and the related classifications are as follows:

(Classification rounded to nearest 5)

Decoral decorative powder coating wood grain finish on aluminum sheets	Smoke Developed	Smoked Developed Classification
Run 1	12	15
Run 2	12	
Run 3	15	

(C) Observations

During the test runs, surface ignition occurred between 46 and 52 seconds; the flame began to progress along the sample until it reached the maximum flame spread.

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SECTION 10

CONCLUSION

The samples of Decoral decorative powder coating wood grain finish on aluminum sheets submitted by Decoral Decorative System USA Corporation 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
Decoral decorative powder coating wood grain finish on aluminum sheets	15	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.



Total Quality. Assured.

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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

Page 1 of 2

Standard: ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory
Client: Decoral Systems USA
Date: 28 May 2020
Project Number: 104306121
Test Number: 1
Operator: Salvatore Ballesta

Specimen ID and Description:

Decoral Decorative Powder Coating Wood Grain Finish on Aluminum Sheets

TEST RESULTS

FLAMESPREAD INDEX: 11.000
SMOKE DEVELOPED INDEX: 12.000

SPECIMEN DATA

Time to Ignition (sec): 51.917
Time to Max Flame Spread (min): 1.482
Maximum Flame Spread (mm): 0.700
Time to 527 C / 980 F (sec): 0.000
Max Temperature (deg F or C as per test standard): 278.820
Time to Max Temperature (sec): 596.917
Total Fuel Burned (cubic feet): 43.865


Flame Spread*Time Area (M*min): 6.195
Smoke Area (%A*min): 19.644
Unrounded FSI: 11.461
Unrounded SDI: 12.378

CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 44

Calibrated Smoke Area (%A*min): 158.700

15 point Heptane average for E84-19b
5 point Red Oak average for S102

Tested by: 

Reviewed by: 

TEST REPORT FOR DECORAL SYSTEM USA CORPORATION

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CAN/ULC S102-18 DATA SHEETS

Run 2

Page 1 of 2

Standard: ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory
Client: Decoral System USA
Date: 28 May 2020
Project Number: 104306121
Test Number: 2
Operator: Salvatore Balletra

Specimen ID and Description:

Decoral Decorative Powder Coating Wood Grain Finish

TEST RESULTS

FLAMESPREAD INDEX: 15.000
SMOKE DEVELOPED INDEX: 12.000

SPECIMEN DATA


Time to Ignition (sec): 46.716
Time to Max Flame Spread (min): 1.545
Maximum Flame Spread (mm): 0.930
Time to 527 C / 980 F (sec): 0.000
Max Temperature (deg F or C as per test standard): 279.590
Time to Max Temperature (sec): 597.716
Total Fuel Burned (cubic feet): 43.847

Flame Spread*Time Area (M*min): 8.280
Smoke Area (%A*min): 19.733
Unrounded FSI: 15.318
Unrounded SDI: 12.459

CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 44
Calibrated Smoke Area (%A*min): 158.700

15 point Heptane average for E84-19b
5 point Red Oak average for S102

Tested by:  _____

Reviewed by:  _____

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CAN/ULC S102-18 DATA SHEETS

Run 2

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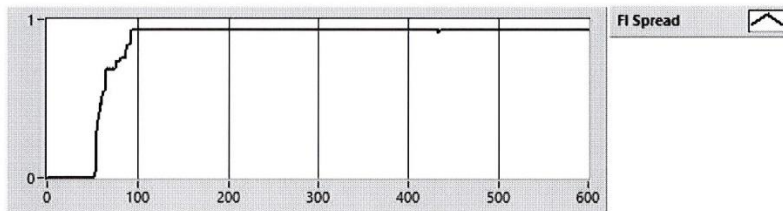
Client: Decoral System USA

Project Number: 104306121

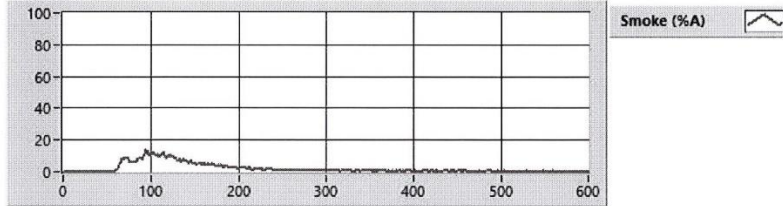
Test Number: 2

Test Standard: ULC S102

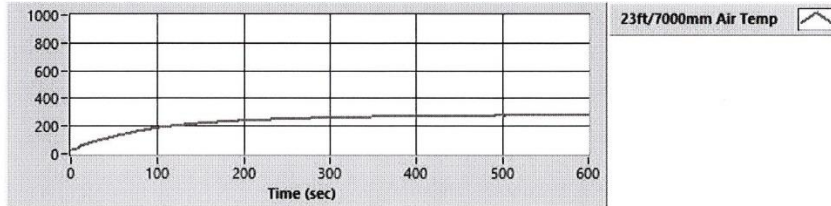
FLAME SPREAD



SMOKE (%A)



TEMPERATURE



Tested by: SS.

Reviewed by: la

TEST REPORT FOR DECORAL SYSTEM USA CORPORATION

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CAN/ULC S102-18 DATA SHEETS

Run 3

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Standard: ULC S102

Lab ID: Intertek Coquitlam Fire Laboratory
Client: Decoral System USA
Date: 28 May 2020
Project Number: 104306121
Test Number: 3
Operator: Salvatore Balletta

Specimen ID and Description:

Decoral Decorative Powder Coating Wood Grain Finish on Aluminum Sheets

TEST RESULTS

FLAMESPREAD INDEX: 17.000
SMOKE DEVELOPED INDEX: 15.000

SPECIMEN DATA

Time to Ignition (sec): 46.101
Time to Max Flame Spread (min): 1.652
Maximum Flame Spread (mm): 1.010
Time to 527 C / 980 F (sec): 0.000
Max Temperature (deg F or C as per test standard): 278.450
Time to Max Temperature (sec): 592.102
Total Fuel Burned (cubic feet): 43.819

Flame Spread*Time Area (M*min): 8.972
Smoke Area (%A*min): 23.460
Unrounded FSI: 16.599
Unrounded SDI: 14.783

CALIBRATION DATA

Time to Ignition of Last Red Oak (sec): 44
Calibrated Smoke Area (%A*min): 158.700

15 point Heptane average for E84-19b
5 point Red Oak average for S102

Tested by: 

Reviewed by: 

TEST REPORT FOR DECORAL SYSTEM USA CORPORATION

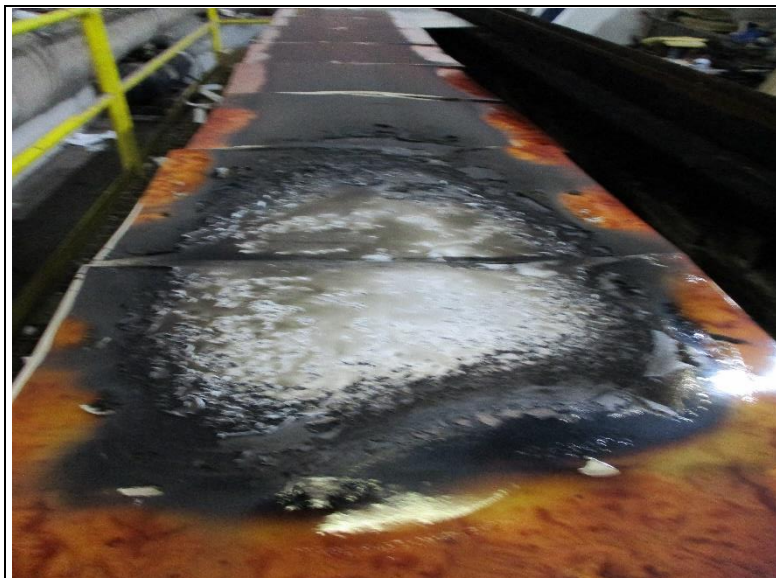
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SECTION 12 PHOTOGRAPHS



**Photo No. 1
Pre-Test**



**Photo No. 2
Post Test**



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REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	05/28/20	N/A	Original Report Issue