

DELSCAN MANUFACTURING LTD. TEST REPORT

SCOPE OF WORK

REPORT OF 3/8 IN. THICK DELPRO 54293 FIRE RATED PVC WALL AND CEILING PANELS FOR COMPLIANCE WITH THE APPLICABLE REQUIREMENTS OF THE FOLLOWING CRITERIA: ASTM E84-23 STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.

REPORT NUMBER

105837197COQ-003A R0

TEST DATE(S)

10/31/24 - 10/31/24

ISSUE DATE

11/01/24

PAGES

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TEST REPORT FOR DELCAN MANUFACTURING LTD.

Report No.: 105837197COQ-003A R0

Date: 11/01/24

REPORT ISSUED TO

**DELCAN MANUFACTURING LTD.
212-2880 45 AVE SE
CALGARY, BC. T2B 3M1 CANADA**

SECTION 1 SCOPE

Intertek Building & Construction (B&C) was contracted by Delcan Manufacturing Ltd. to perform testing in accordance with ASTM E84-23 Standard Test Method for Surface Burning Characteristics of Building Materials on their 3/8 in. thick Delpro 54293 Fire Rated PVC Wall and Ceiling Panel. 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.

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Intertek B&C will service this report for the entire test record retention period. The test record retention period ends four years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens (where required by Certification or Accreditation bodies), or other pertinent project documentation, will be retained for the entire test record retention period.

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SECTION 2

SUMMARY OF TEST RESULTS

The samples of 3/8 in. thick Delpro 54293 Fire Rated PVC Wall and Ceiling Panel submitted by Delcan Manufacturing Ltd. were tested in accordance with ASTM E84-23 Standard Test Method for Surface Burning Characteristics of Building Materials.

The product test results are presented in Section 10 of this report.

For INTERTEK B&C:

COMPLETED BY:	Sean Fewer
TITLE:	Technician – B&C
SIGNATURE:	
DATE:	10/31/24

REVIEWED BY:	Greg Philp
TITLE:	Reviewer – B&C
SIGNATURE:	
DATE:	11/01/24

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SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

ASTM E84-23 Standard Test Method for Surface Burning Characteristics of Building Materials.

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
WH 2189	Photocell	Huygen 856	05/15/25
WH 2190	Smoke Opacity Meter	Huygen	05/15/25
WH 1052	Data Logger	Phidgets DAQ 2020	11/06/24
	FS Tunnel (E84)	N/A	06/25/25

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Sean Fewer	Intertek B&C

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SECTION 7

TEST CALCULATIONS

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 Index:

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 heptane, 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 "3/8 in. thick Delpro 54293 Fire Rated PVC Wall and Ceiling Panel".

For this trial run, 24 in. wide by 24 ft. length of sample material was placed on the upper ledge of the flame spread tunnel. The sample material was supported by 1/4 in. steel rods spaced every 24 in. and 20 ga. 2 in x 2 in galvanized steel netting spanning 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 ASTM E84-23.

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SECTION 9**TEST RESULTS****(A) Flame Spread**

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

Sample Material	Flame Spread	Flame Spread Index
3/8 in. thick Delpro 54293 Fire Rated PVC Wall and Ceiling Panel	14	15

(B) Smoke Developed

The areas beneath the smoke developed curve and the related indexes are as follows:
(For smoke developed indexes 200 or more, index is rounded to the nearest 50. For smoke developed indexes less than 200, index is rounded to nearest 5)

Sample Material	Smoke Developed	Smoke Developed Index
3/8 in. thick Delpro 54293 Fire Rated PVC Wall and Ceiling Panel	437	450

(C) Observations

During the test, the sample surface ignited at approximately 43 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 3/8 in. thick Delpro 54293 Fire Rated PVC Wall and Ceiling Panel submitted by Delcan Manufacturing Ltd. exhibited the following flame spread characteristics when tested in accordance with ASTM E84-23 Standard Test Method for Surface Burning Characteristics of Building Materials.

Sample Material	Flame Spread Index	Smoke Developed Index
3/8 in. thick Delpro 54293 Fire Rated PVC Wall and Ceiling Panel	15	450

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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Coquitlam, BC V3K 7C1

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SECTION 11

TEST DATA (2 PAGES)

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ASTM E84-23 DATA SHEETS

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Standard: ASTM E84/UL723

Lab ID: Intertek Coquitlam Fire Laboratory
Client: Delcan
Date: 31 Oct 2024
Project Number: 105837197
Test Number: 1
Operator: Sean Fewer

Specimen ID and Description:

54293 Delpro fire rated pvc wall and ceiling panel

TEST RESULTS

FLAMESPREAD INDEX: 15.000
SMOKE DEVELOPED INDEX: 450.000

SPECIMEN DATA

Time to Ignition (sec): 42.741
Time to Max Flame Spread (min): 1.212
Maximum Flame Spread (ft): 3.000
Time to 527 C / 980 F (sec): 0.000
Max Temperature (deg F or C as per test standard): 476.375
Time to Max Temperature (sec): 399.742
Total Fuel Burned (cubic feet): 42.234

Flame Spread*Time Area (M*min): 27.057
Smoke Area (%A*min): 297.541
Unrounded FSI: 13.934
Unrounded SDI: 436.611

CALIBRATION DATA

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

Calibrated Smoke Area (%A*min): 68.148

15 point Heptane average for E84
5 point Red Oak average for S102

Tested by: S.F.

Reviewed by: SP

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ASTM E84-23 DATA SHEETS

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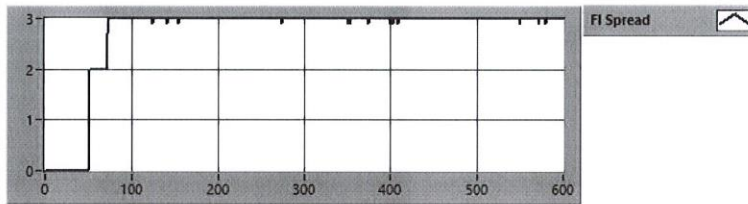
Client: Delcan

Project Number: 105837197

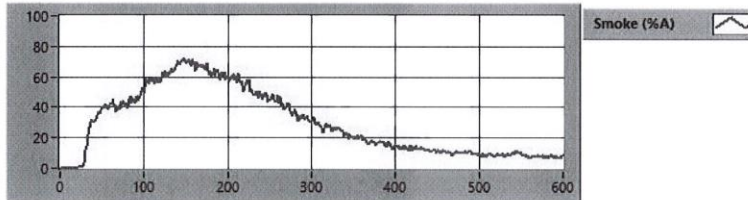
Test Number: 1

Test Standard: ASTM E84/UL723

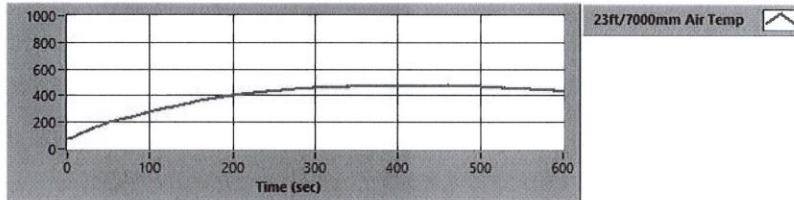
FLAME SPREAD



SMOKE (%A)



TEMPERATURE



Tested by: SF

Reviewed by: gp

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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	11/01/24	N/A	Original Report Issue