Tested For:
 Lone Henriksen
 Phone:
 011 45 89 53 18 80
 Received:
 2/13/2023

Kvadrat A/S Fax: Completed: 2/21/2023

Lundbergsvej 10 DK-8400 Ebeltoft Mobile: Code: L2

PO#: 06164621 **Test Report:** 3-50500-2-RV

Email: lh@kvadrat.dk

Denmark

Key Test: CAN/ULC-S102

Client's Identification:

Style: Balboa - Item 600187. Composition: 100% Polyester FR. Width: 140cm/55 inches. Finish: None. Weight: App. 685g/m². Thickness: 2-3mm. Product End Use: Upholstery/Curtain

LE: 2018 V 02/23 BG

PC: ME

CODE: I=1520 F=3230 CLEAN=1105 /dv

TEST PERFORMED: CAN/ULC-S102-18 - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

TEST CONDUCTED:

□ Formal

PRODUCT CATEGORY: ☐ Composite Panel Material

☑ Textile Type Product☐ Vinyl Type Product

BRIEF DESCRIPTION OF TEST METHOD: The method is designed to determine the relative burning characteristics of materials under specific test conditions. Results of less than three identical specimens are expressed in terms of Flame Spread Value (FSV) and Smoke Developed Value (SDV). Results of three or more replicate tests on identical specimens produce average values expressed as Flame Spread Rating (FSR) and Smoke Developed Classification (SDC).

SUMMARY OF TEST PROCEDURE: The tunnel is preheated to 85°C, as measured by the backwall-embedded thermocouple located 7090 mm downstream of the burner ports, and allowed to cool to 40°C, as measured by the backwall-embedded thermocouple located 4000 mm from the burners. At this time the tunnel lid is raised, and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling above the floor and then the lid is lowered. Upon ignition of the gas burners, the flame spread distance is observed and recorded every second. Flame spread distance versus time is plotted, ignoring any flame front recessions. Calculations are based on comparison with flame spread characteristics of select red oak, determined in calibration trials and arbitrarily established as 100. If the area under the curve (AT) is less than or equal to 29.7 m²min, FSV=1.85° AT; if greater, FSV=1640/(59.4-AT). The Smoke Developed Value is determined by comparing the area under the obscuration curve for the test sample to that of inorganic reinforced cement board and red oak, established as 0 and 100, respectively.

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Page 1 of 3

The results contained in this report relate only to the item(s) tested. The test report shall not be reproduced except in full, without written approval from SGS North America.

 Tested For:
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Lundbergsvej 10 DK-8400 Ebeltoft Mobile: Code: L2

PO#: 06164621 **Test Report:** 3-50500-2-RV

Email: lh@kvadrat.dk

Denmark

Key Test: CAN/ULC-S102

SAMPLE PREPARATION:

The sample consisted of two sections of materials, each approximately 445 mm in width by 3658 mm in length
butted together to form the requisite specimen length. The specimen was free laid (no adhesive) on top of a 6 mm
fiberglass reinforced cement board substrate.

☐ Adhered to IRC: The test specimen was bonded to ¼" Inorganic Reinforced Cement (IRC) boards.

☐ Adhered to Gypsum: The test specimen was bonded to 5/8" thick Type X gypsum board.

☑ Other: The test specimen was laid over a 2" hexagonal wire mesh and ¼" rods. The 7,315 mm specimen was comprised of three 2,438 mm sections butted end to end.

ADHESIVE (applied by SGS North America): ⊠ No

 \square Yes – specify:

REPORTED AS:

☑ INDICATIVE (Single Specimen Test):

Flame Spread Value (FSV): 8.9 Smoke Developed Value (SDV): 209.4

☐ FORMAL (Average Value of three replicate tests rounded to the nearest multiple of five points):

Flame Spread Rating (FSR):

Smoke Developed Classification (SDC):

RESULTS:

	Specimen #	Flame Spread Value	Smoke Developed Value	Burn Distance (meters)	Time (seconds)
	1	8.9	209.4	0.5	00:37
	2	NT	NT	NT	NT
П	3	NT	NT	NT	NT

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Page 2 of 3

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Kvadrat A/S Fax: Completed: 2/21/2023

Lundbergsvej 10 DK-8400 Ebeltoft Mobile: Code: L2

PO#: 06164621 **Test Report:** 3-50500-2-RV

Email: lh@kvadrat.dk

Denmark

Key Test: CAN/ULC-S102

OBSERVATIONS:

- 1. Specimen melted and dripped onto tunnel floor, causing it to pool and ignite at around the 6 min mark during the
- 2. test
- 2. NT
- NT

REMARKS: NT = Not tested

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified above.

-DocuSigned by:

RV.03.15.23 /gb

BRUNEN GUULGHER
3/15/2023

AUTHORIZED SIGNATURE SGS NORTH AMERICA /ab/gb

Enclosure: 3 Graph Chart (Formal)



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Page 3 of 3

The results contained in this report relate only to the item(s) tested. The test report shall not be reproduced except in full, without written approval from SGS North America.



Test Method

: CAN S-102

Report #

: 3-50500-2-L2

-RV

Test Date

: 2/21/2023

Client

: Kvadrat A/S

Operator

: John Tighe

Details of Preparation

: The test specimen was laid over a 2" hexagonal wire mesh and

1/4"rods. The 7,315mm specimen was comprised of three

2,438mm sections butted end to end.

Observations

: Specimen melted and dripped onto tunnel floor causing it to

pool and ignite at around 6 min mark durring the test.

	Specimen 1
Area Under Flame Curve (m min)	4.8
Flame Spread Value	8.9
Ignition Time (mm:ss)	00:15
Area Under Smoke Curve (%A min)	112.0
Smoke Developed Value	209.4
Total Gas Flow (L)	1608.2
Maximum Flame Front Achieved (m)	0.5 @ 37s

Flame Spread Rating

: 10

Smoke Developed Classification

: 210

CERTIFICATION: I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by CAN S-102

John Tighe

AUTHORIZED SIGNATURE



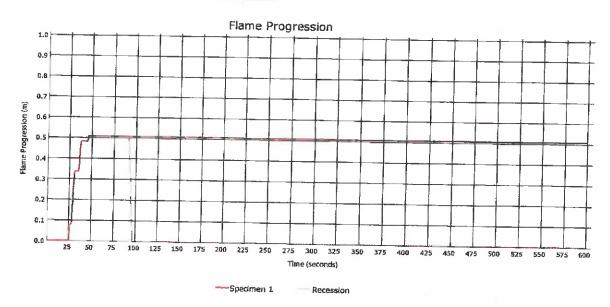
Test Method

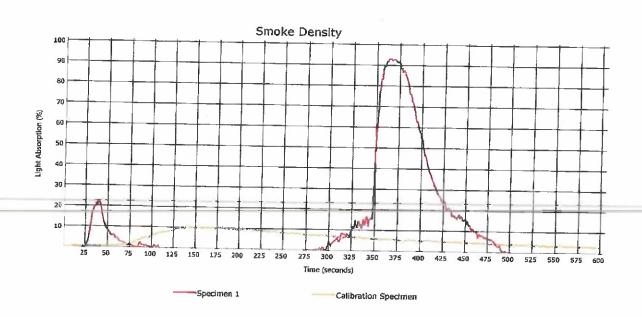
: CAN S-102

Test Report #

: 3-50500-2-L2

-RV







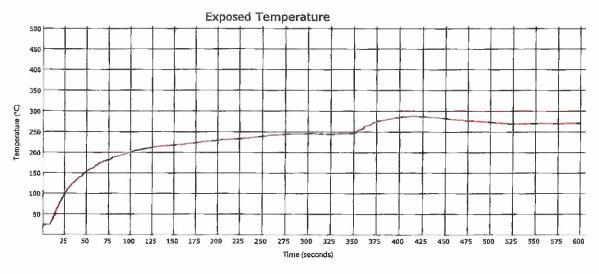
Test Method

: CAN 5-102

Test Report #

: 3-50500-2-L2

-RV



---Specimen 1

Tested For: Lone Henriksen Phone: 011 45 89 53 18 80 Received: 2/13/2023

Kvadrat A/SFax:Completed:2/24/2023Lundbergsvej 10 DK-8400 EbeltoftMobile:Code:L4

PO#: 06164621 **Test Report:** 3-50500-4-RV

Email: lh@kvadrat.dk

Denmark

Key Test: CAN/ULC-S102.2

Client's Identification:

Style: Balboa - Item 600187. Composition: 100% Polyester FR. Width: 140cm/55 inches. Finish: None. Weight: App. 685g/m². Thickness: 2-3mm. Product End Use: Upholstery/Curtain

LE: 2018 V 02/23 BG

PC: ME

CODE: I=1375 F=2925 CLEAN=1000

/rb /dv

TEST PERFORMED: CAN/ULC-S102.2-18 - Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering and Miscellaneous Materials

TEST CONDUCTED:

 $\hfill\square$ Indicative

PRODUCT CATEGORY: ☐ Composite Panel Material

☑ Textile Type Product☐ Vinyl Type Product

BRIEF DESCRIPTION OF TEST METHOD: The method is designed to determine the relative burning characteristics of materials under specific test conditions. Results of less than three identical specimens are expressed in terms of Flame Spread Value (FSV) and Smoke Developed Value (SDV). Results of three or more replicate tests on identical specimens produce average values expressed as Flame Spread Rating (FSR) and Smoke Developed Classification (SDC).

SUMMARY OF TEST PROCEDURE: The tunnel is preheated to 85°C, as measured by the backwall-embedded thermocouple located 7090 mm downstream of the burner ports, and allowed to cool to 40°C, as measured by the backwall-embedded thermocouple located 4000 mm from the burners. At this time the tunnel lid is raised, and the test sample is placed along the floor of the tunnel so as to form a continuous surface and then the lid is lowered. Upon ignition of the gas burners, the flame spread distance is observed and recorded every second. Flame spread distance versus time is plotted, ignoring any flame front recessions. Calculations are based on comparison with flame spread characteristics of select red oak, determined in calibration trials and arbitrarily established as 100. If the area under the curve (AT) is less than or equal to 29.7 m²min, FSV=1.85° AT; if greater, FSV=1640/(59.4-AT). The Smoke Developed

CG Ver. 2021-03-09 10:35 Page 1 of 3

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Received: **Tested For: Lone Henriksen** Phone: 011 45 89 53 18 80 2/13/2023 Kvadrat A/S Fax: **Completed:** 2/24/2023 Lundbergsvej 10 DK-8400 Ebeltoft Code: Mobile: L4 06164621 **Test Report:** 3-50500-4-RV PO#: Email: Ih@kvadrat.dk

Denmark

Key Test: CAN/ULC-S102.2

Value is determined by comparing the area under the obscuration curve for the test sample to that of inorganic reinforced cement board and red oak, established as 0 and 100, respectively.

SAMPLE PREPARATION:

In he sample consisted of two sections of materials, each approximately 445 mm in width by 3658 mm in length
butted together to form the requisite specimen length. The specimen was free laid (no adhesive) on top of a 6 mm
fiberglass reinforced cement board substrate.

☐ Adhered to IRC: The	e test specimen was bonde	d to ¼″ Inorganic Rein	forced Cement (IRC) boards.
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ADHESIVE (applied by SGS North America): ⊠ No

 $\hfill\square$ Yes - specify

REPORTED AS:

Othor:

☐ INDICATIVE (Single Specimen Test):

Flame Spread Value (FSV): Smoke Developed Value (SDV):

Flame Spread Rating (FSR): 70 Smoke Developed Classification: 675

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Kvadrat A/S Fax: Completed: 2/24/2023

 Lundbergsvej 10 DK-8400 Ebeltoft
 Mobile:
 Code:
 L4

 PO#:
 06164621
 Test Report:
 3-50500-4-RV

Email: lh@kvadrat.dk

Denmark

Key Test: CAN/ULC-S102.2

RESULTS:

Specimen #	Flame Spread Value	Smoke Developed Value	Burn Distance (meters)	Time (seconds)
1	93.4	621.8	5.9	03:36
2	52.0	601.8	3.9	04:48
3	63.8	795.7	5.8	07:25

OBSERVATIONS:

- 1. No unusual observations
- 2. No unusual observations
- 3. No unusual observations

REMARKS: None.

ACCEPTANCE CRITERIA: None cited.

CONCLUSION: Not applicable.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified above.

OocuSigned by:

BRANDEN GALLAGHER

3/15/2023

RV.03.15.23 /gb

AUTHORIZED SIGNATURE SGS NORTH AMERICA /ab/gb

Enclosure: Graphs



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The results contained in this report relate only to the item(s) tested. The test report shall not be reproduced except in full, without written approval from SGS North America.



Test Method

: CAN S-102

Report #

: 3-50500-4-L4 -RV

Test Date

: 2/24/2023

Client

: Kvadrat A/S

Operator

: Kvagrat A/S : Chris Gangi

Details of Preparation

: The sample consisted of three sections of materials, each

approximatelt 445 mm in width by 2438 mm in length butted

together to form the requisite specimen length.

Observations

: No unusual observations.

	Specimen 1	Specimen 2	Specimen 3
Area Under Flame Curve (m min)	41.8	28.1	33.7
Flame Spread Value	93.4	52.0	63.8
Ignition Time (mm:ss)	01:09	00:48	00:56
Area Under Smoke Curve (%A min)	332.6	321.9	425.6
Smoke Developed Value	621.8	601.8	795.7
Total Gas Flow (L)	1608.4	1608.4	1605.9
Maximum Flame Front Achieved (m)	5.9 @ 216s	3.9 @ 288s	5.8 @ 445s

Flame Spread Rating

: 70

Smoke Developed Classification

: 675

CERTIFICATION: I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by CAN S-102

Chris Gargi

AUTHORIZED SIGNATURE

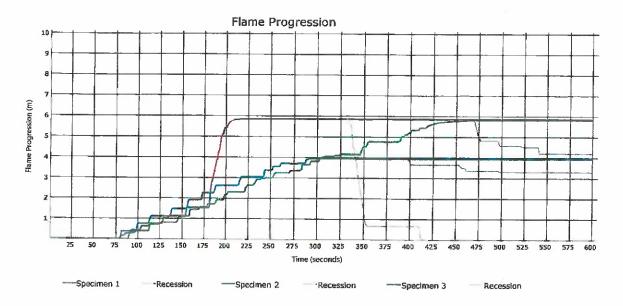


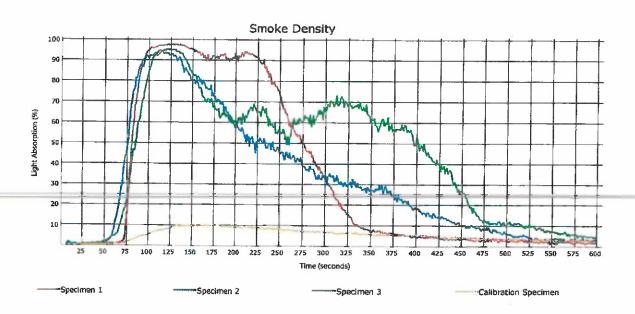
Test Method

: CAN S-102

Test Report #

: 3-50500-4-L4 -RV







Test Method

: CAN S-102

Test Report #

: 3-50500-4-L4 -RV

