

**Tested For:** Lone Henriksen

Kvadrat A/S

Lundbergsvej 10 DK-8400 Ebeltøft

Denmark

**Phone:** 011 45 89 53 18 60**Fax:****Mobile:****PO#:****Email:** lh@kvadrat.dk**Received:** 2/28/2022**Completed:** 3/24/2022**Code:** Q**Test Report:** 3-47080-0**Key Test:** CAN/ULC-S102

3230

**Client's Identification:**

Style: Trevira CS Textile Weight: Range 16-480 g/m<sup>2</sup> - Waver - Item 6760. Composition: 100% Trevira CS. Weight: App. 16 g/m<sup>2</sup>. Thickness: 0-1 mm. Product End Use: Vertical Application.

LE: 2018 V 7/21 DK

PC: ME

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

**TEST PERFORMED:** CAN/ULC-S102-10 - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

**TEST CONDUCTED:**☐ Indicative☒ Formal**PRODUCT CATEGORY:** ☐ Composite Panel Material

**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 m<sup>2</sup>min, 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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**Fax:**  
**Mobile:**  
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**Email:** lh@kvadrat.dk

**Received:** 2/28/2022  
**Completed:** 3/24/2022  
**Code:** Q  
**Test Report:** 3-47080-0

**Key Test:** CAN/ULC-S102

3230

#### 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.
- ☒ Other: The test specimen was laid over a 2" hexagonal wire mesh screen and 1/4" rods. The 7,315 mm specimen was comprised of three 2,438 mm sections butted end to end.

#### REPORTED AS:

- ☐ INDICATIVE (Single Specimen Test):

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

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

Flame Spread Rating (FSR): 0  
Smoke Developed Classification (SDC): 5

#### RESULTS:

Specimen #	Flame Spread Value	Smoke Developed Value	Burn Distance (meters)	Time (seconds)
1	0	4	0	0
2	0	2	0	0
3	0	5	0	0

#### OBSERVATIONS:

1. Material melted away, resulting in no flame spread
2. Material melted away, resulting in no flame spread
3. Material melted away, resulting in no flame spread

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**Key Test:** CAN/ULC-S102

3230

REMARKS: None.

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

DocuSigned by:

*Bobby Brown*

3/29/2022

B50EB94D593C454...

AUTHORIZED SIGNATURE  
SGS NORTH AMERICA  
/ab /gb

Enclosure: 3 Graph Chart (Formal)



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Program: CAN S-102 (Version 1.10)

Test Method : CAN S-102  
 Test Report # : 3-47080-0-Q  
 Date : 3/24/2022  
 Client : Kvadrat A/S  
 Operator : Jillian Guillem  
 Details of Preparation : The test specimen was laid over a 2" hexagonal wire mesh screen and 1/4" rods. The 7,315 mm specimen was comprised of three 2,438 mm sections butted end to end.  
 Observations : Material melted away resulting in no flame spread.

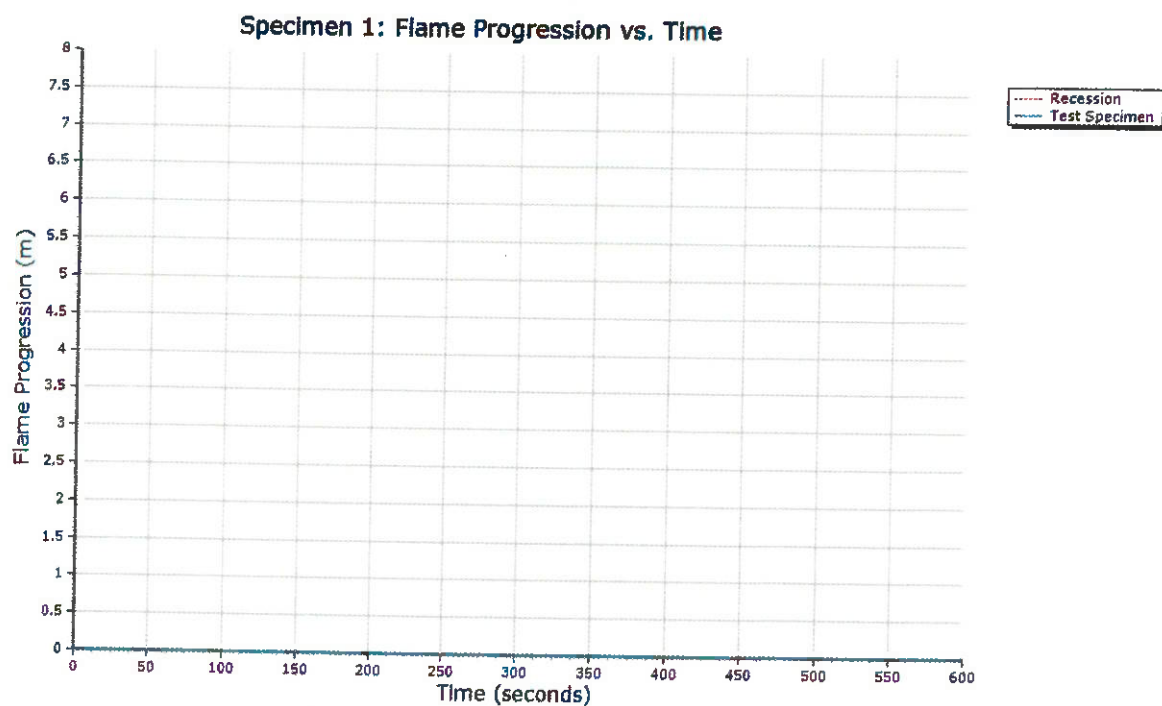
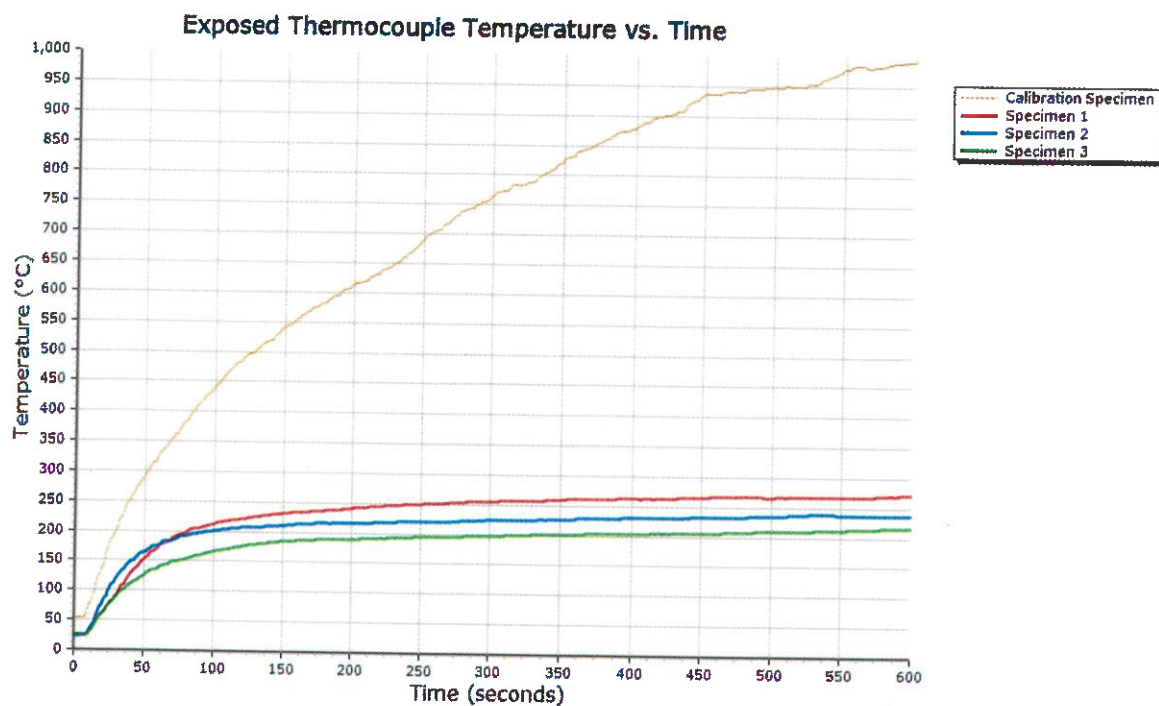
	Specimen 1	Specimen 2	Specimen 3
Area Under Flame Curve (m min)	0.00	0.00	0.00
Raw Flame Spread Value (m min)	0.00	0.00	0.00
Rounded Flame Spread Value (m min)	0	0	0
Ignition Time	00:10 mm:ss	00:08 mm:ss	00:07 mm:ss
Area Under Smoke Curve (%A min)	4.42	2.70	6.39
Raw Smoke Developed Value	3.57	2.19	5.17
Rounded Smoke Developed Value	4	2	5
Total Gas Flow(L)	1278.3	1278.1	1278.7
Total Gas Flow(ft <sup>3</sup> )	45.1	45.1	45.2
Maximum Flame Front Achieved(m)	0 (@0s)	0 (@0s)	0 (@0s)

Flame Spread Rating : 0  
 Smoke Developed Classification : 5



Program: CAN S-102 (Version 1.10)

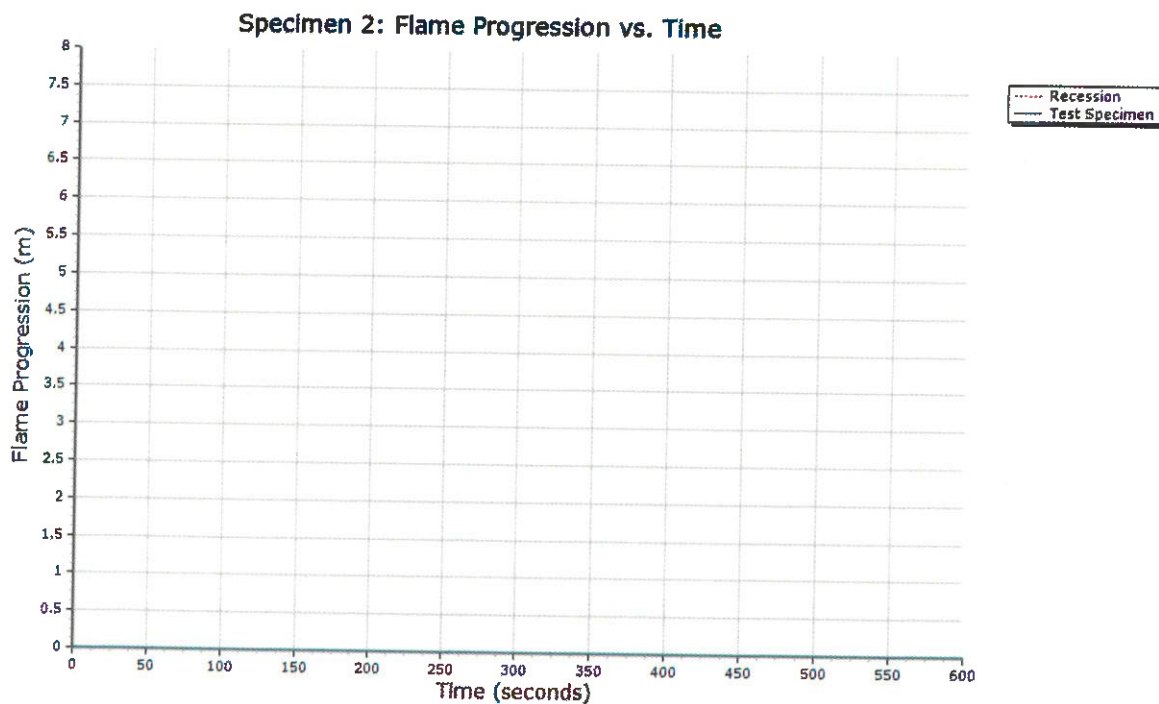
Test Method : CAN S-102  
Test Report # : 3-47080-0-Q





Program: CAN S-102 (Version 1.10)

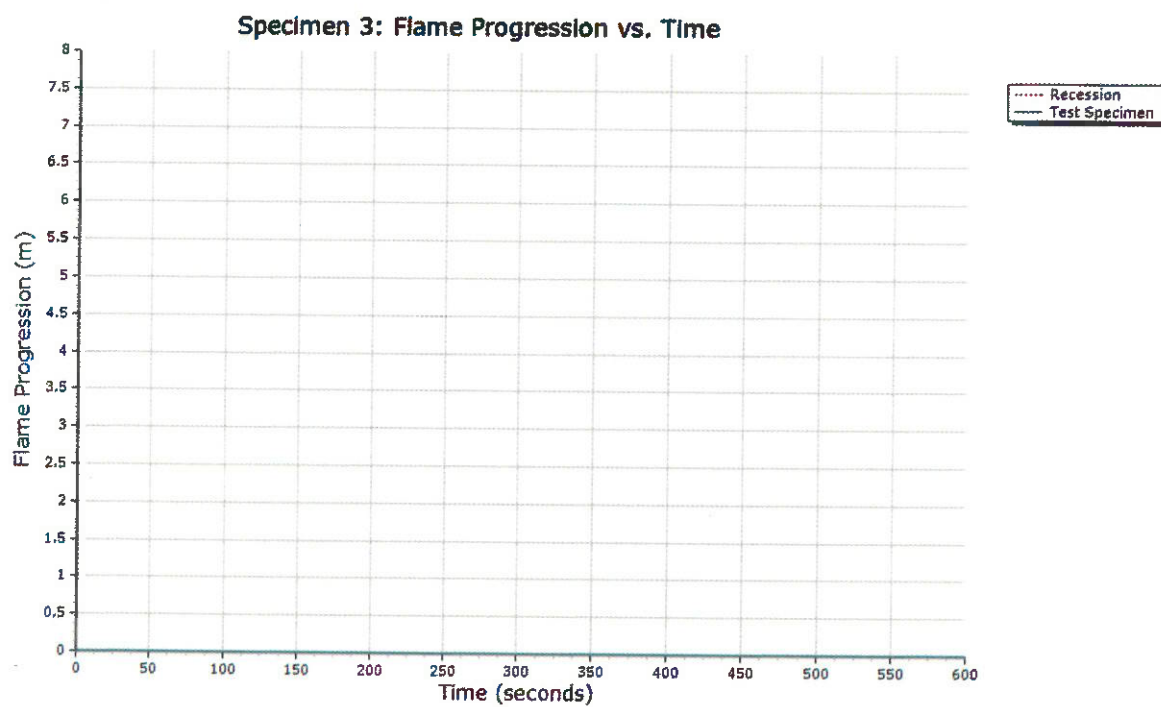
Test Method : CAN S-102  
Test Report # : 3-47080-0-Q





Program: CAN S-102 (Version 1.10)

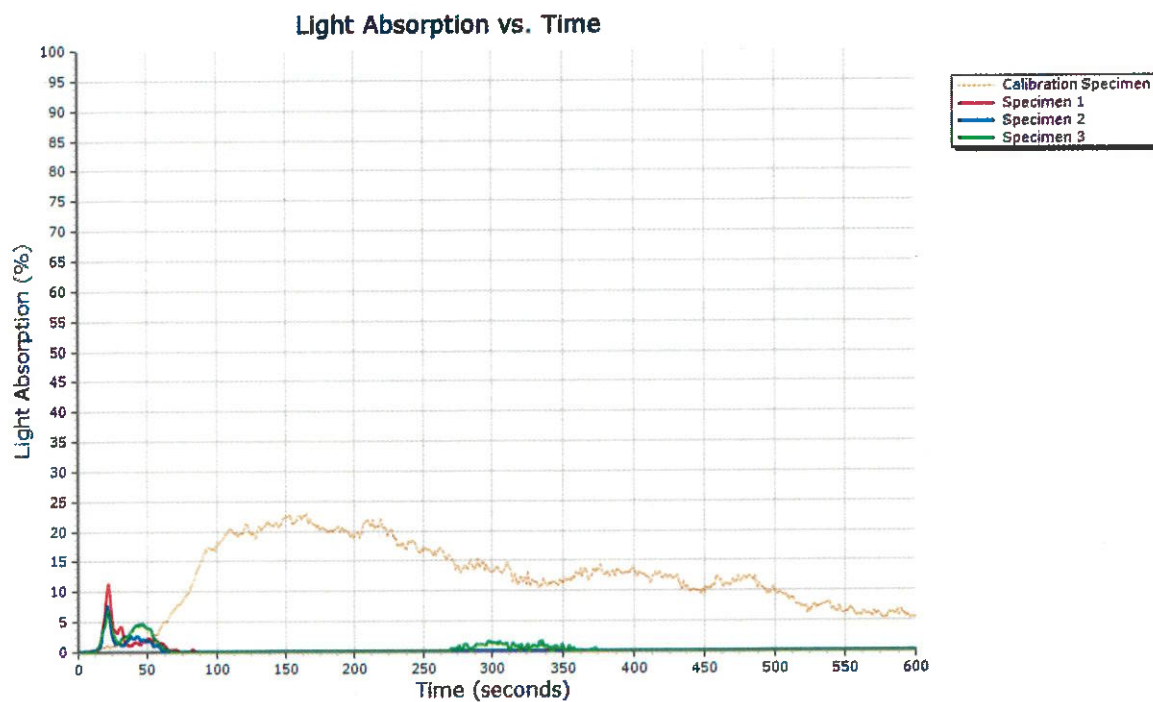
Test Method : CAN S-102  
Test Report # : 3-47080-0-Q





Program: CAN S-102 (Version 1.10)

Test Method : CAN S-102  
Test Report # : 3-47080-0-Q





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Kvadrat A/S

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Denmark

**Phone:** 011 45 89 53 18 60**Fax:****Mobile:****PO#:****Email:** lh@kvadrat.dk**Received:** 2/28/2022**Completed:** 3/23/2022**Code:** R**Test Report:** 3-47081-0**Key Test:** CAN/ULC-S102

3230

**Client's Identification:**

Style: Trevira CS Textile Weight: Range 16-480 g/m<sup>2</sup> - Casa - Item 5314. Composition: 100% Trevira CS. Weight: App. 179 g/m<sup>2</sup>. Thickness: 0-1 mm. Product End Use: Vertical Application.

LE: 2018 V 7/21 DK

PC: ME

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

**TEST PERFORMED:** CAN/ULC-S102-10 - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

**TEST CONDUCTED:**☐ Indicative☒ Formal**PRODUCT CATEGORY:** ☐ Composite Panel Material

**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 m<sup>2</sup>min, 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.

JR

Ver. 2021-03-09 10:35

Page 1 of 3

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**Email:** lh@kvadrat.dk

**Received:** 2/28/2022  
**Completed:** 3/23/2022  
**Code:** R  
**Test Report:** 3-47081-0

**Key Test:** CAN/ULC-S102

3230

#### 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.
- ☒ Other: The test specimen was laid over a 2" hexagonal wire mesh screen and 1/4" rods. The 7,315 mm specimen was comprised of three 2,438 mm sections butted end to end

#### REPORTED AS:

- ☐ INDICATIVE (Single Specimen Test):

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

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

Flame Spread Rating (FSR): 10  
Smoke Developed Classification (SDC): 25

#### RESULTS:

Specimen #	Flame Spread Value	Smoke Developed Value	Burn Distance (meters)	Time (seconds)
1	10	21	0.6	22
2	7	34	0.4	27
3	11	21	0.6	22

#### OBSERVATIONS:

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

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**Completed:** 3/23/2022  
**Code:** R  
**Test Report:** 3-47081-0

**Key Test:** CAN/ULC-S102

3230

REMARKS: None.

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

*Bobby Brown*

B50EB94D593C454...

3/29/2022

AUTHORIZED SIGNATURE  
SGS NORTH AMERICA  
/ab /gb

Enclosure: 3 Graph Chart (Formal)



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Program: CAN S-102 (Version 1.10)

Test Method : CAN S-102  
 Test Report # : 3-47081-0-R  
 Date : 3/23/2022  
 Client : Kvadrat A/S  
 Operator : Jimmy Rosinsky  
 Details of Preparation : The test specimen was laid over a 2" hexagonal wire mesh screen and 1/4" rods. The 7,315 mm specimen was comprised of three 2,438 mm sections butted end to end.  
 Observations : No unusual observations

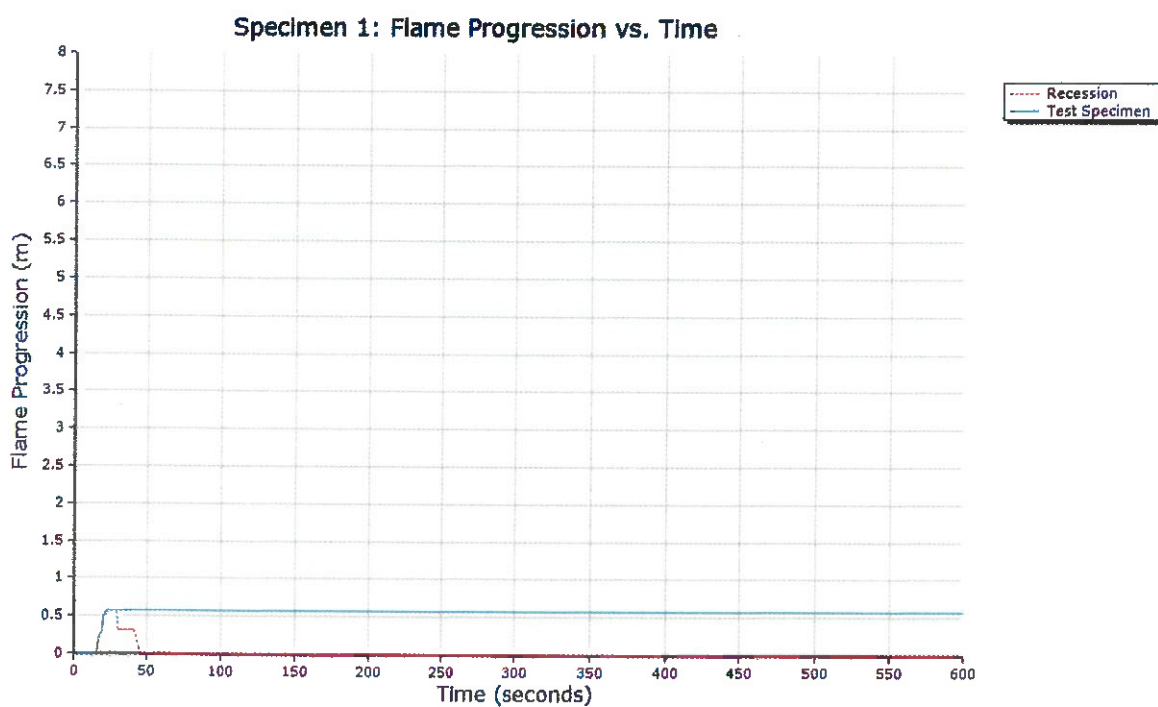
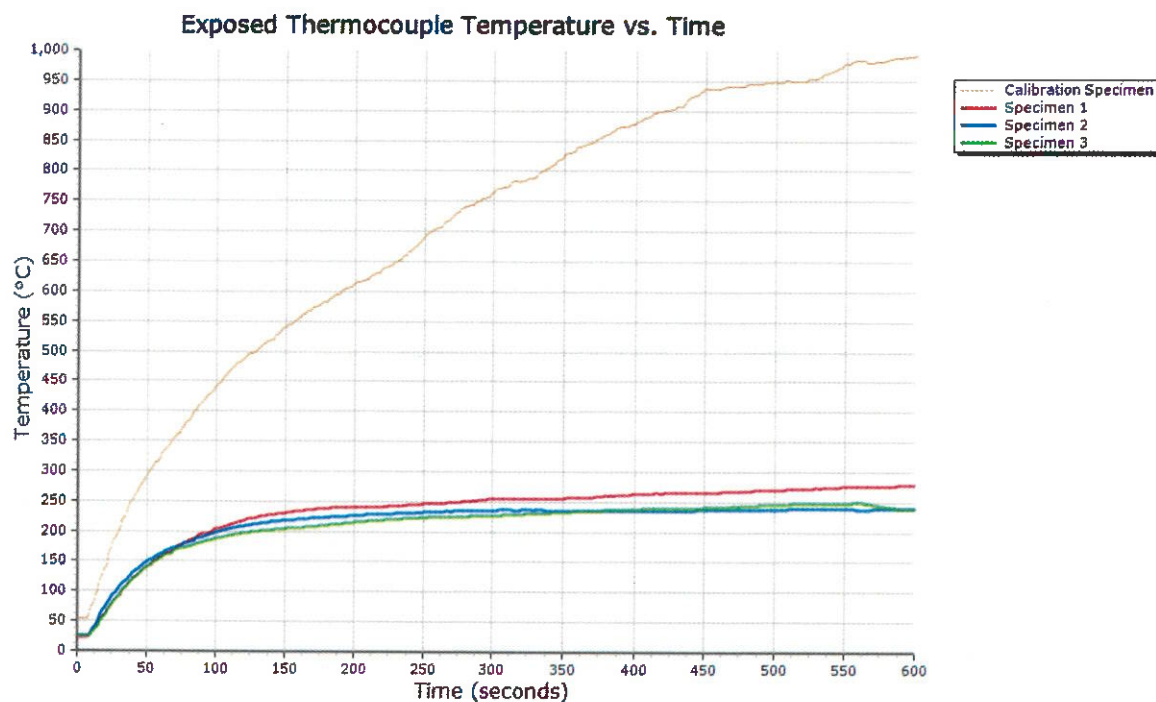
	Specimen 1	Specimen 2	Specimen 3
Area Under Flame Curve (m min)	5.48	3.53	6.13
Raw Flame Spread Value (m min)	10.14	6.52	11.35
Rounded Flame Spread Value (m min)	<b>10</b>	<b>7</b>	<b>11</b>
Ignition Time	<b>00:06 mm:ss</b>	<b>00:07 mm:ss</b>	<b>00:07 mm:ss</b>
Area Under Smoke Curve (%A min)	25.90	42.24	25.48
Raw Smoke Developed Value	20.95	34.17	20.61
Rounded Smoke Developed Value	<b>21</b>	<b>34</b>	<b>21</b>
Total Gas Flow(L)	1279.1	1278.1	1278.6
Total Gas Flow(ft <sup>3</sup> )	45.2	45.1	45.2
Maximum Flame Front Achieved(m)	0.6 (@22s)	0.4 (@27s)	0.6 (@22s)

Flame Spread Rating : **10**  
 Smoke Developed Classification : **25**



Program: CAN S-102 (Version 1.10)

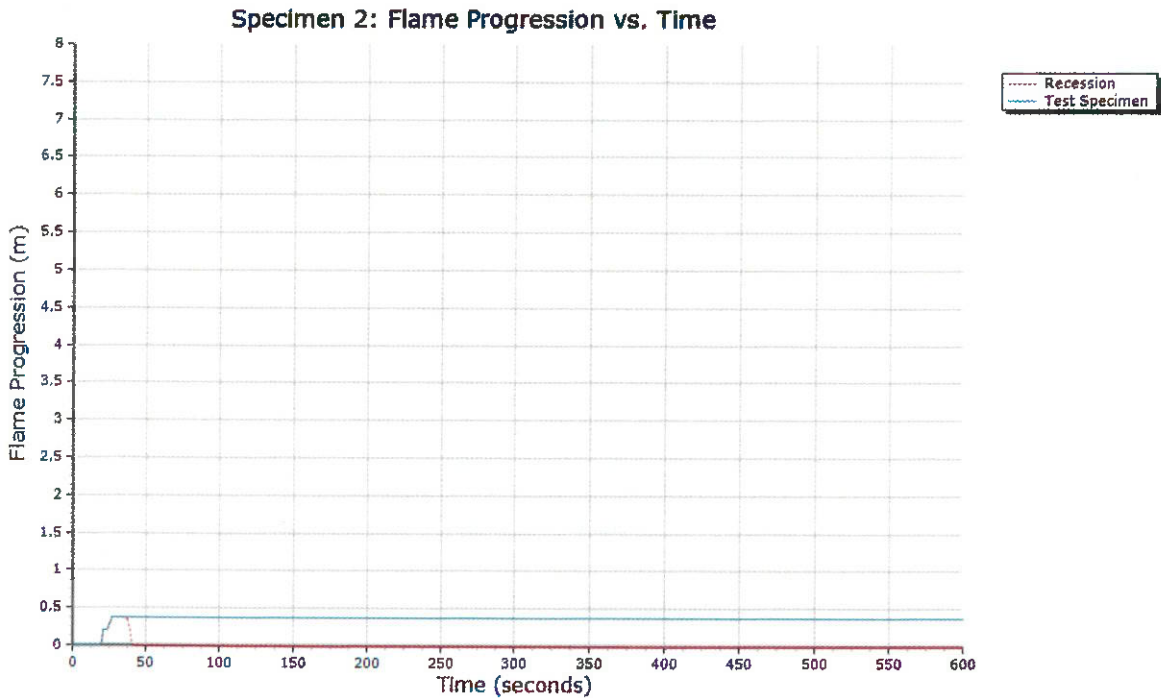
Test Method : CAN S-102  
Test Report # : 3-47081-0-R





Program: CAN S-102 (Version 1.10)

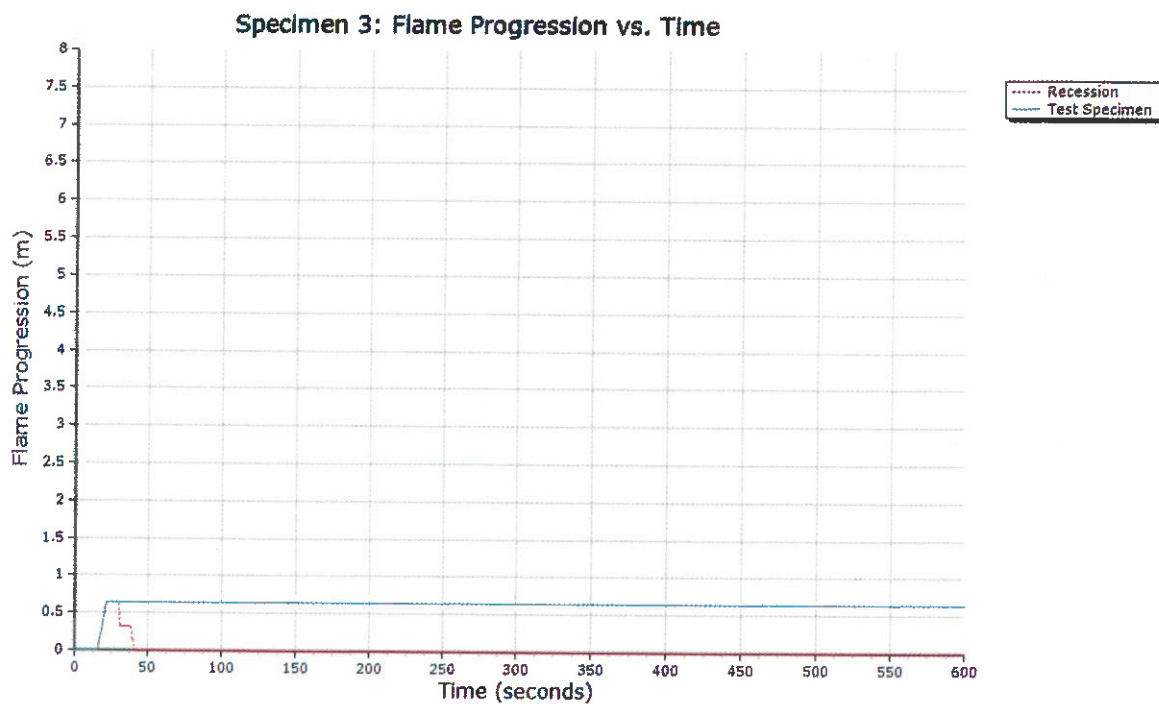
Test Method : CAN S-102  
Test Report # : 3-47081-0-R





Program: CAN S-102 (Version 1.10)

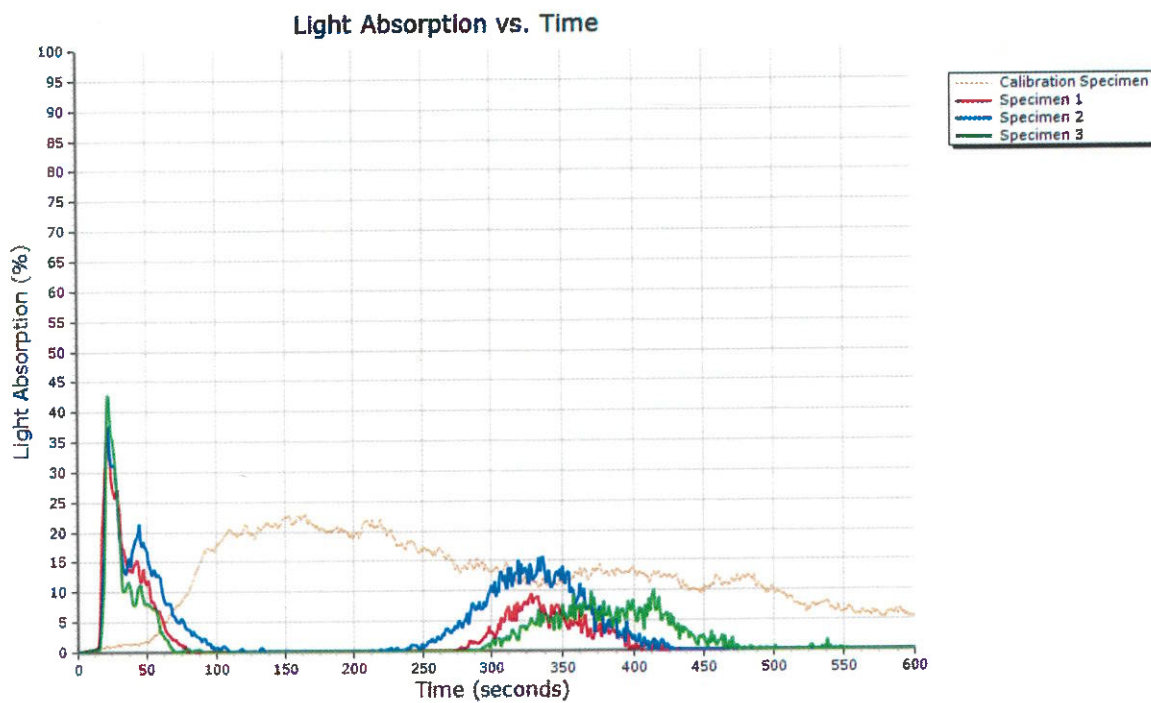
Test Method : CAN S-102  
Test Report # : 3-47081-0-R





Program: CAN S-102 (Version 1.10)

Test Method : CAN S-102  
Test Report # : 3-47081-0-R





**Tested For:** Lone Henriksen

Kvadrat A/S

Lundbergsvej 10 DK-8400 Ebeltøft

Denmark

**Phone:** 011 45 89 53 18 60**Fax:****Mobile:****PO#:****Email:** lh@kvadrat.dk**Received:** 2/28/2022**Completed:** 3/25/2022**Code:** S**Test Report:** 3-47082-0**Key Test:** CAN/ULC-S102

3230

**Client's Identification:**

Style: Trevira CS Textile Weight: Range 16-480 g/m<sup>2</sup> - Drake - Item 600107. Composition: 100% Trevira CS. Weight: App. 480 g/m<sup>2</sup>. Thickness: 1-2 mm. Product End Use: Vertical Application.

LE: 2018 V 7/21 DK

PC: ME

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

**TEST PERFORMED:** CAN/ULC-S102-10 - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

**TEST CONDUCTED:**☐ Indicative☒ Formal**PRODUCT CATEGORY:** ☐ Composite Panel Material

**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 m<sup>2</sup>min, 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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**Received:** 2/28/2022  
**Completed:** 3/25/2022  
**Code:** S  
**Test Report:** 3-47082-0

**Key Test:** CAN/ULC-S102

3230

#### 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.
- ☒ Other: The test specimen was laid over a 2" hexagonal wire mesh screen and 1/4" rods. The 7,315 mm specimen was comprised of three 2,438 mm sections butted end to end.

#### REPORTED AS:

- ☐ INDICATIVE (Single Specimen Test):

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

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

Flame Spread Rating (FSR): 5  
Smoke Developed Classification (SDC): 150

#### RESULTS:

Specimen #	Flame Spread Value	Smoke Developed Value	Burn Distance (meters)	Time (seconds)
1	8	194	0.4	37
2	6	103	0.3	44
3	6	152	0.3	40

#### OBSERVATIONS:

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

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**Tested For:** Lone Henriksen  
Kvadrat A/S  
Lundbergsvej 10 DK-8400 Ebeltøft  
  
Denmark

**Phone:** 011 45 89 53 18 60  
**Fax:**  
**Mobile:**  
**PO#:**  
**Email:** lh@kvadrat.dk

**Received:** 2/28/2022  
**Completed:** 3/25/2022  
**Code:** S  
**Test Report:** 3-47082-0

**Key Test:** CAN/ULC-S102

3230

REMARKS: None.

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

DocuSigned by:

*Bobby Brown*

B50EB94D593C454...

3/29/2022

AUTHORIZED SIGNATURE  
SGS NORTH AMERICA  
/ab /gb

Enclosure: 3 Graph Chart (Formal)



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Program: CAN S-102 (Version 1.10)

Test Method : CAN S-102  
 Test Report # : 3-47082-0-S  
 Date : 3/25/2022  
 Client : Kvadrat A/S  
 Operator : Jimmy Rosinsky  
 Details of Preparation : The test specimen was laid over a 2" hexagonal wire mesh screen and 1/4" rods. The 7,315 mm specimen was comprised of three 2,438 mm sections butted end to end.  
 Observations : No unusual observations

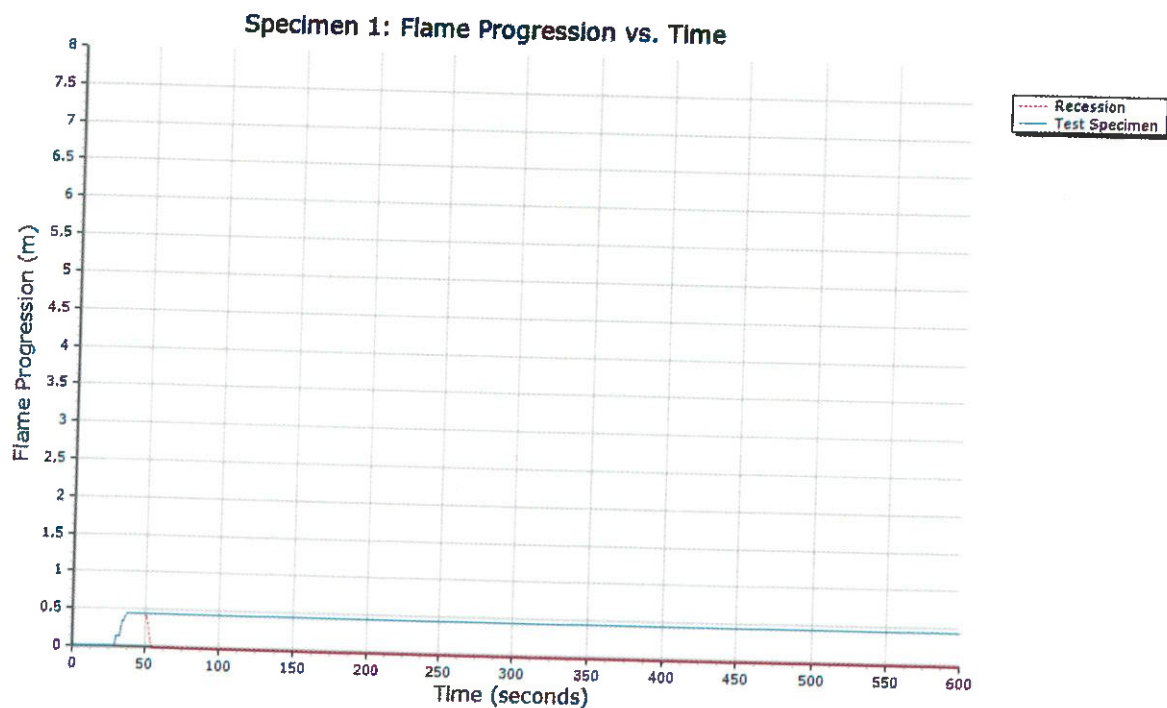
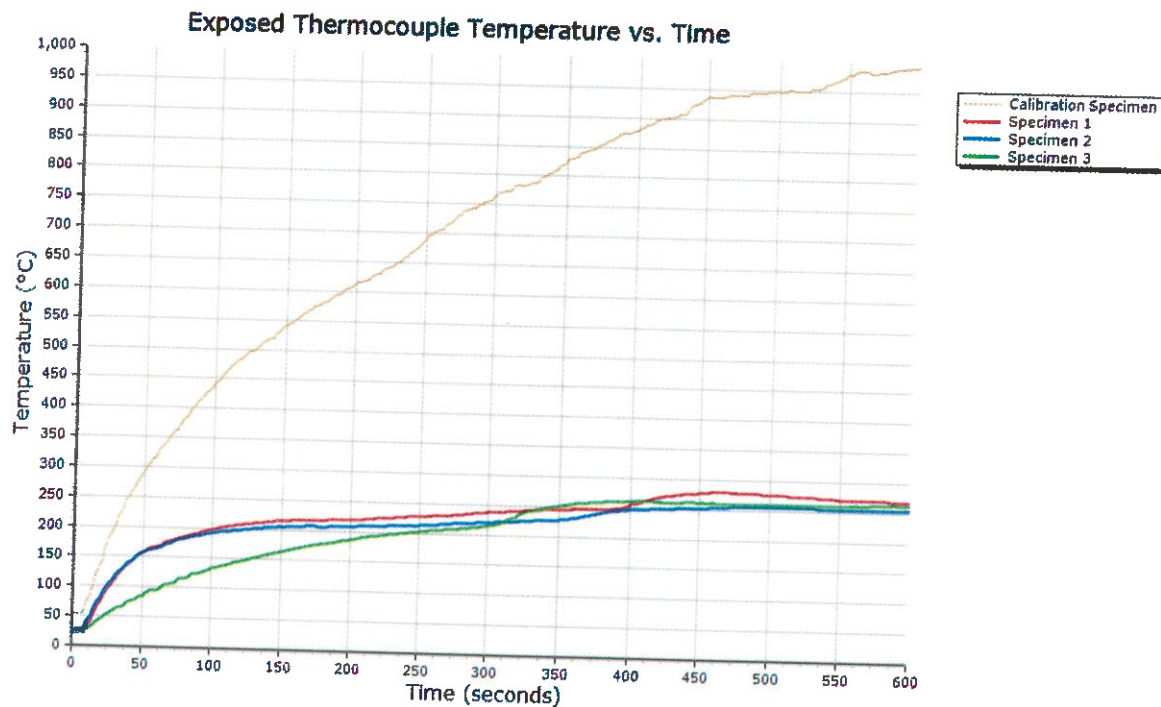
	Specimen 1	Specimen 2	Specimen 3
Area Under Flame Curve (m min)	4.18	3.26	3.22
Raw Flame Spread Value (m min)	7.74	6.02	5.96
Rounded Flame Spread Value (m min)	8	6	6
Ignition Time	00:08 mm;ss	00:15 mm;ss	00:11 mm;ss
Area Under Smoke Curve (%A min)	239.54	127.92	188.51
Raw Smoke Developed Value	193.77	103.47	152.49
Rounded Smoke Developed Value	194	103	152
Total Gas Flow(L)	1278.2	1278.7	1278.6
Total Gas Flow(ft <sup>3</sup> )	45.1	45.2	45.2
Maximum Flame Front Achieved(m)	0.4 (@37s)	0.3 (@44s)	0.3 (@40s)

Flame Spread Rating : 5  
 Smoke Developed Classification : 150



Program: CAN S-102 (Version 1.10)

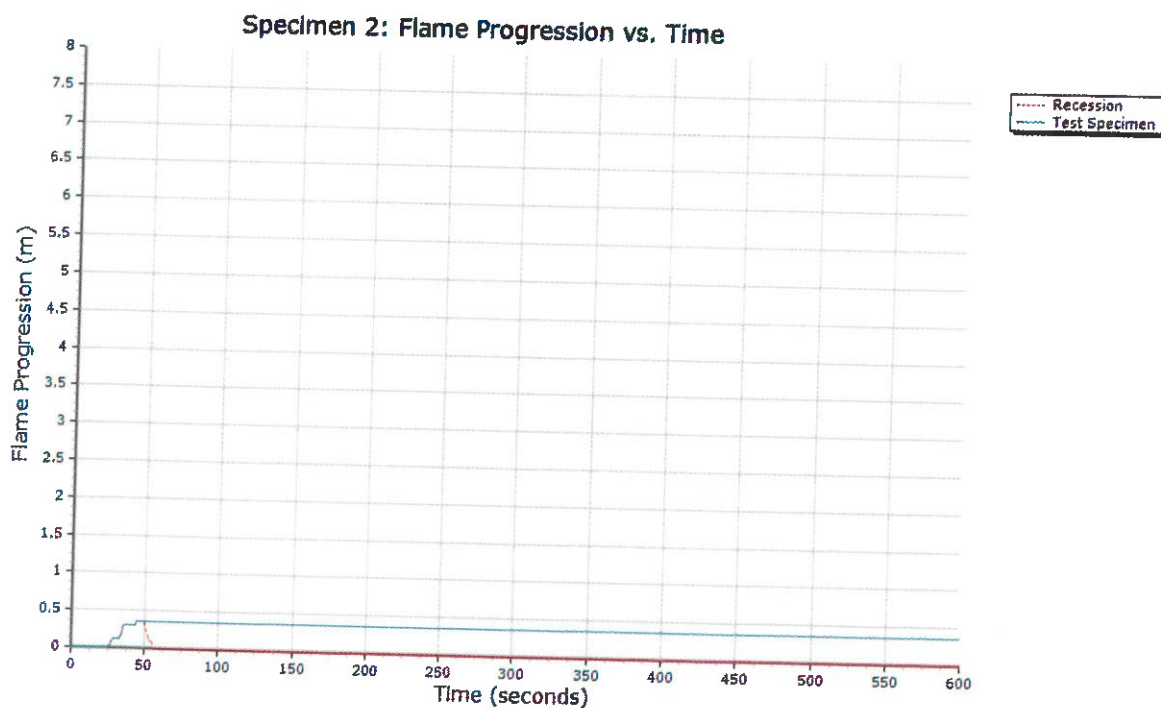
Test Method : CAN S-102  
Test Report # : 3-47082-0-S





Program: CAN S-102 (Version 1.10)

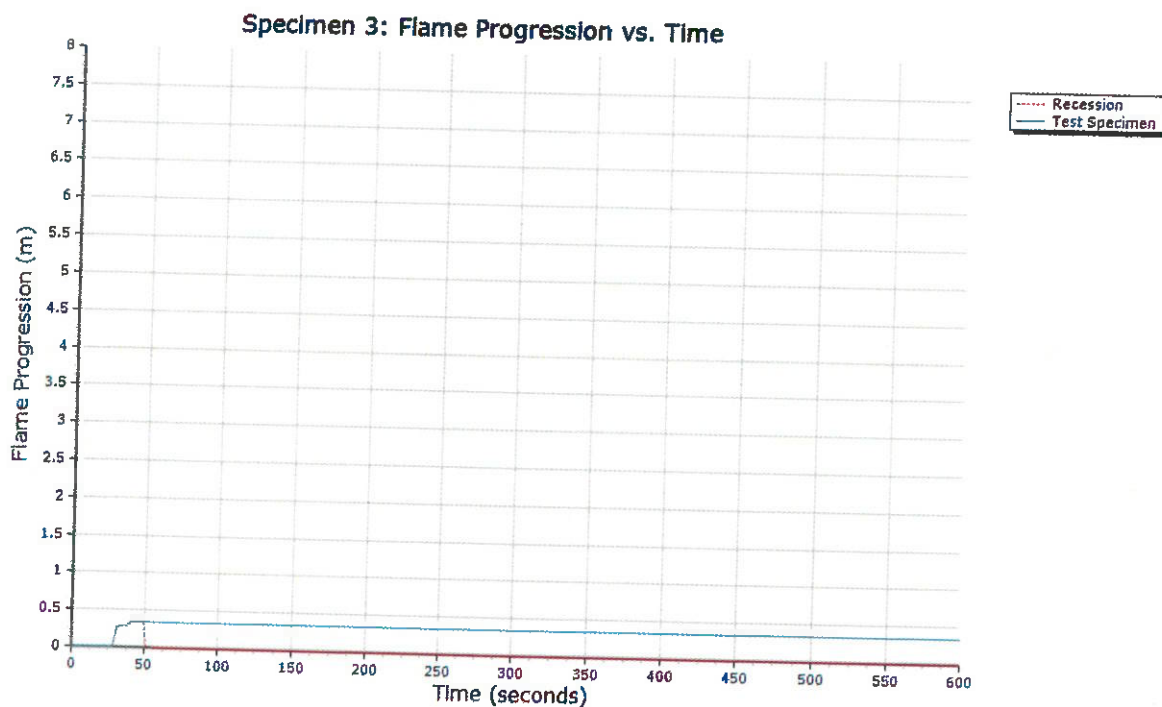
Test Method : CAN S-102  
Test Report # : 3-47082-0-S





Program: CAN S-102 (Version 1.10)

Test Method : CAN S-102  
Test Report # : 3-47082-0-S





Program: CAN S-102 (Version 1.10)

Test Method : CAN S-102  
Test Report # : 3-47082-0-S

