

7913 Alto was tested and met the following flammability requirements:

ASTM E84 Unadhered Class A
CA TB 117-2013
CAN/ULC-S102



Tested For: Liz Sanzari	Phone: (212) 886-8211	Received: 7/3/2025
DesignTex	Fax:	Completed: 7/11/2025
200 Hudson Street, 9th Floor	Mobile:	Code: K
New York, NY 10013	PO#:	Test Report: 3-59839-0-RV
USA	Email: esanzari@designtex.com	

Key Test: ASTM E84/ACT

90

Client's Identification:

Style: 7913 Alto. Composition: 100% Polyester. Finish: None. Weight: 21 oz/ly. Product End Use: Upholstery, Panel.

Test Category: Tunnel Test, Indoor Use Specifier: ACT LE 2024; V 08/24 BG PC: ME

TEST PERFORMED: ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials

As cited by the Association of Contract Textiles (ACT) Voluntary Performance Guidelines – Indoor (February 2025)

APPROXIMATE THICKNESS OF SPECIMEN (as measured by SGS North America): 0.048"**SPECIMEN WEIGHT** (to include substrate when applicable):

Prior to Conditioning: 4.6 lbs.

Stabilized Weight (taken twice within 24 hours): 4.6 lbs.

PRODUCT CATEGORY:

- ☒ Textile Type Product
☐ Vinyl Type Product
☐ Other than Textile Type or Vinyl Type Product: _____

BRIEF DESCRIPTION OF TEST: This test method is used to determine the relative burning behavior of a material under defined test conditions. The test is performed in a 25 ft. long tunnel/duct-like apparatus and is often referred to as the "tunnel test". The test contemplates a calibration where Red Oak burns to the 24 ft. mark in 5.5 minutes $\pm$ 15 seconds. During the actual test, a 24 ft. long x 23" wide specimen rests horizontally in a ceiling configuration inside the test chamber facing downward and toward two upward oriented burners. A furnace lid that rests in a water trough seals the chamber tight. A cement board placed on the backside of each specimen assembly protects the furnace lid during the test. The near face of the specimen is subjected to a 4.5 ft. flame insult of approximately 88 kW for ten minutes. The time and distance of the spread of flame along the length of the specimen and the smoke developed as read by the photometric system are all recorded. The Flame Spread and Smoke Developed are reported as an Index.

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**Tested For:** Liz Sanzari

Designtex

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New York, NY 10013

USA

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SPECIMEN MOUNTING:

- ☐ Self-supporting: The test specimen was rigid enough to be self-supporting when placed into test position. No additional support was required.
- ☐ Adhered to IRC: The test specimen was bonded to " Inorganic Reinforced Cement (IRC) boards.
- ☐ Adhered to Gypsum: The test specimen was adhered to 5/8" thick Type X gypsum board.
- ☒ Unadhered: The specimen was not adhered to any substrate. Instead, it was laid over a 2" hexagonal wire mesh screen and 1/4" rods.
- ☐ Other: _____

DISCUSSION: 3.2.1.1: Self-supporting specimens, after being mounted on the ledges of the test furnace, are structurally capable of supporting their own weight prior to the test and during the test without the use of additional supports. Examples of self-supporting specimen behavior include the ability to do the following without the use of additional supporting elements:

- (1) Prior to and during the test, the specimen stays in its position to such an extent that it does not interfere with the effect of the burner flame.
- (2) During the test, the specimen does not interrupt the progression of the flame front along the specimen. A specimen may still be considered self-supporting if it sags during the test or if debris falls from the specimen as long as this behavior does not interfere with the progress of the flame front.

SPECIMEN LENGTH: The 24 ft. length was comprised of:

- ☐ Continuous unbroken 24 ft. length
- ☒ Sections: ☐ Three 8 ft. sections butted end to end
- ☐ Three 8 ft. sections positively joined
- ☐ Four 5 ft. and one 4 ft. sections butted end to end
- ☒ Other: Two 12 ft. sections butted end to end

ADHESIVE (applied by SGS North America): ☒ No

☐ Yes (specify): _____

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OBSERVATIONS:

- ☐ No unusual observations
- ☒ Burning Drips to Floor further qualified as: ☐ Minor; ☒ Moderate; ☐ Major
- ☐ Delamination
- ☐ Sagging
- ☐ Shrinkage
- ☐ Fallout (specimen displacement from ceiling mount)
- ☒ Other: Small fire on tunnel floor

REMARKS:

- ☒ None
- ☐ Other: _____

RESULTS: Flame Spread Index: 5
Smoke Developed: 110

ROUNDING: Flame Spread Index value has been rounded to the nearest multiple of 5.
Smoke Developed value has been rounded to:

Raw Data	Rounded
Less than 200	Nearest multiple of 5
200 or more	Nearest multiple of 50

ACCEPTANCE CRITERIA (as cited by ACT):

	Flame Spread Index	Smoke Developed
Class A	0 - 25	450 or less

NOTE: Class A is also known as Class 1 and may be so specified in some Codes.

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New York, NY 10013

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CONCLUSION: Based on the reported Results and cited Acceptance Criteria, the item tested:
☒ Complies
 ☐ Does not comply
DATA SUMMARY:

Time to Ignition (minutes:seconds): 00:09

Maximum Flame Spread "Distance" (feet): 1.2

Maximum Flame Spread "Time" (seconds): 33

CODE CLASSIFICATION: Based on the reported Results and cited Code Classification System, the item tested is assigned a:

- ☒ Class I or A rating
☐ Class II or B rating
☐ Class III or C rating
☐ Fails to achieve a minimum classification thereby rendering the product unsuitable in terms of code requirement.
☐ Based on product performance*, ASTM E84 is not a suitable test method for the material.

* Severe melt, drip, delamination or other behavior that destroys the continuity of the flame front such that a valid flame spread is unobtainable (See "Remarks" on Page 2 of 4.)

CODE CLASSIFICATION SYSTEM:

	Flame Spread Index	Smoke Developed
Class I or A:	0 - 25	450 or less
Class II or B:	26 - 75	450 or less
Class III or C:	76 - 200	450 or less

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Tested For: Liz Sanzari Designtex 200 Hudson Street, 9th Floor New York, NY 10013 USA	Phone: (212) 886-8211 Fax: Mobile: PO#: Email: esanzari@designtex.com	Received: 7/3/2025 Completed: 7/11/2025 Code: K Test Report: 3-59839-0-RV
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Key Test: ASTM E84/ACT

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LIMITATIONS OF THE ASTM E84 CLASSIFICATION SCHEME: Most building codes will accept the ASTM E84 classifications when the interior finish product is used in a sprinklered area. Certain local authorities such as NYC have more stringent requirements, i.e. Smoke Developed ranges from a maximum 25 to 100.

If the interior finish product is a textile or vinyl wall covering used in a non-sprinklered area, the NFPA 265 room corner fire test applies.

Certain products which give off excessive heat such as but not limited to cellular plastics, cellular foam (either with or without coverings as applicable), polypropylene, and high density polyethylene should be tested by NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth. In SGS North America's opinion, the codes require NFPA 286 for such products, even in sprinklered areas.

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

Signed by:

BC915566495A4BD...

12/12/2025

AUTHORIZED SIGNATURE
 SGS NORTH AMERICA
 /jo/jb

Test Engineer: Ashley Mattern

Initial

RV: 12/12/2025; bg

Enclosure: Graphs



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Program: Steiner Tunnel (Version 1.0.3.0)

Test Method	: ASTM E84
Report #	: 3-59839-0-RV-K
Test Date	: 7/11/2025
Client	: Designtex
Operator	: Ashley Mattern
Details of Preparation	: The specimen was not adhered to any substrate. Instead, it was laid over a 2" hexagonal wire mesh screen and 1/4" rods. The 24 ft. length was comprised of two 12 ft. sections butted end to end.
Observations	: Moderate flaming drips to the tunnel floor which then pooled into a small fire.

Results

Area Under Flame Curve (ft min)	: 11.31
Raw Flame Spread Index	: 5.82
Ignition Time (mm:ss)	: 00:09
Area Under Smoke Curve (%A min)	: 77.46
Raw Smoke Developed Index	: 110.78
Total Gas Flow (ft ³)	: 56.5
Maximum Flame Front Achieved (ft)	: 1.2 @ 33s
Flame Spread Index	: 5
Smoke Developed Index	: 110
Material Classification	: A

CERTIFICATION : I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by ASTM E84

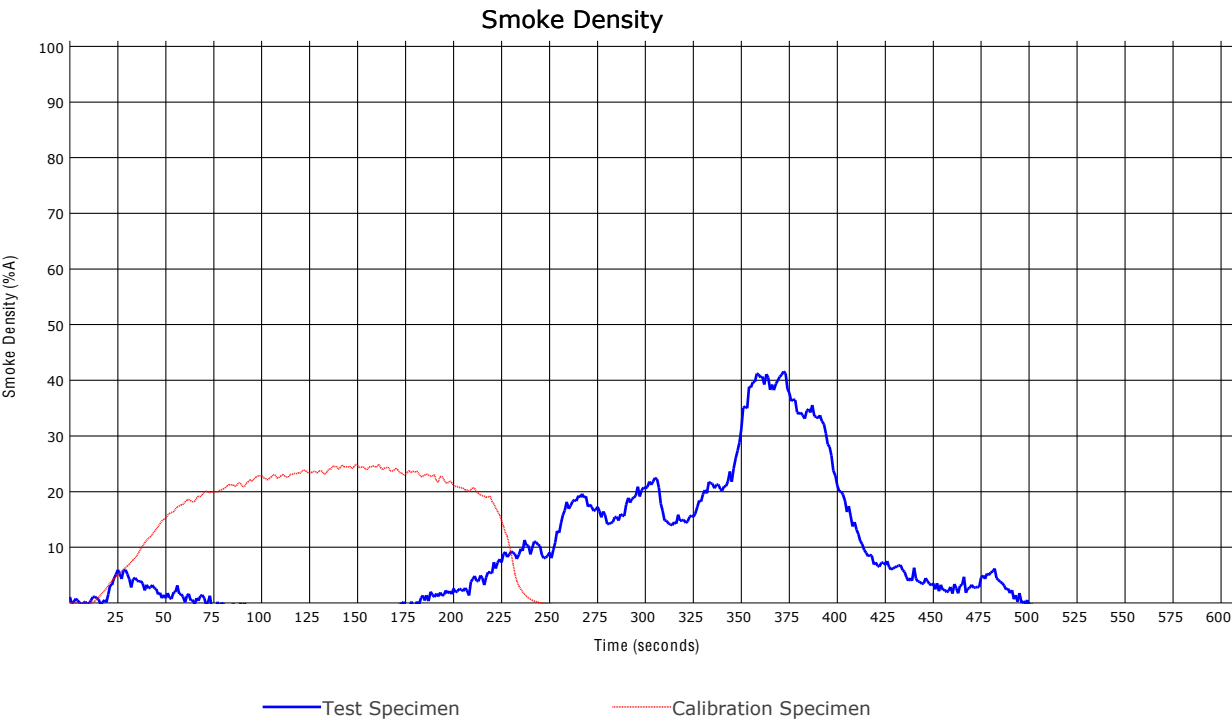
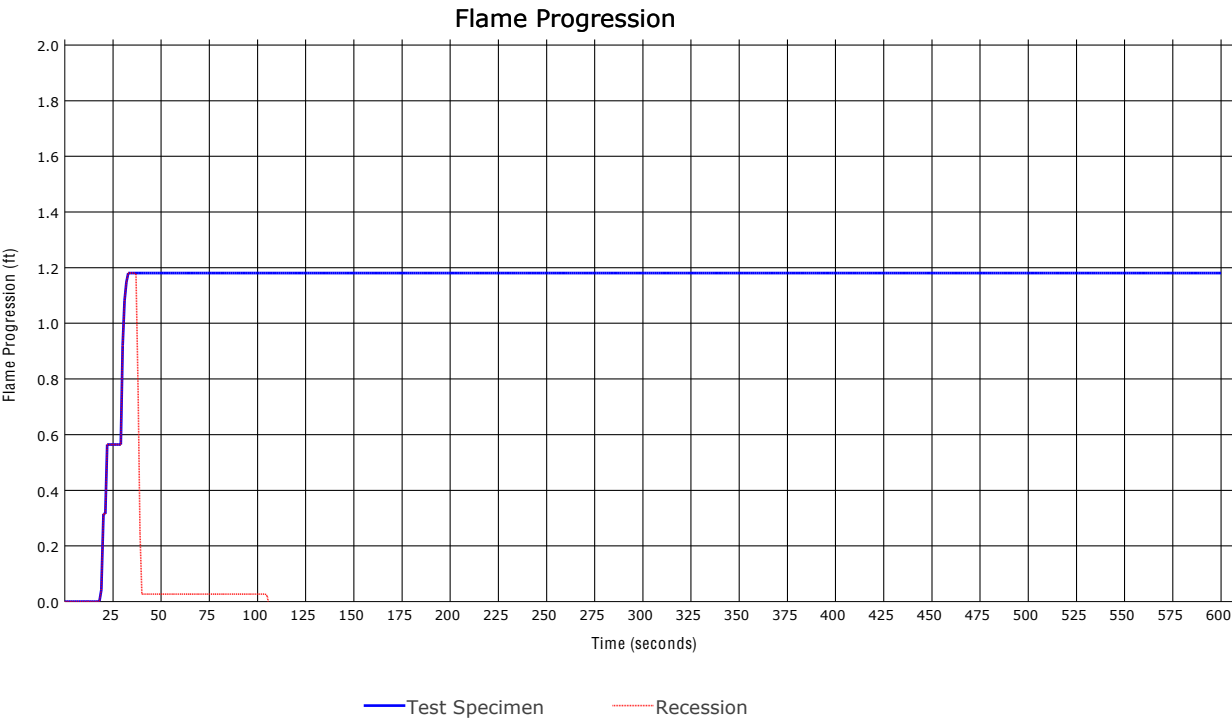
Ashley Mattern

AUTHORIZED SIGNATURE



Program: Steiner Tunnel (Version 1.0.3.0)

Test Method : ASTM E84
Test Report # : 3-59839-0-K



certificate of testing

client Designtex
200 Hudson Street
9th Floor
New York, NY 10013

product identification Alto

test method performed **smolder resistance of materials used in upholstered furniture – section 1: cover fabrics**
california technical bulletin 117: 2013 (january 2019 revision)

date of test 2.28.2024

test results

specimen	char length (in.)	extinguished <45 min (y/n)
1	0.5	y
2	0.5	y
3	0.5	y

notes

test conditions 70 ±3.5°F, 50 ±5% relative humidity *requirement: 21 ±3°C, less than 55% relative humidity*
sampling as received
ignition source srm1196a
deviations none

acceptance criteria

- pass
- vertical char length ≤1.8 inches (45mm)
 - smoldering extinguishes within 45 minutes
 - no transition to open flaming
- fail
- vertical char >1.8 inches (45mm)
 - smoldering beyond 45 minutes
 - specimens transition to open flaming
- retest
- if only one of the three initial specimens fail, retest an additional three specimens
 - if all three additional specimens pass the test, the cover fabric passes the test
 - if any one of the additional three specimens fail, the cover fabric fails the test

classification

based upon the test results and acceptance criteria listed above, the product identified is a

- ☒ pass
☐ fail
☐ requires retesting

certification statement by signing below, the lab certifies that the results were obtained after testing specimens submitted by the client in accordance to the procedures and equipment specified by the standard stated above.

approved by: 

**Tested For:** Liz Sanzari

Designtex

200 Hudson Street, 9th Floor

New York, NY 10013

USA

Phone: (212) 886-8211**Fax:****Mobile:****PO#:****Email:** esanzari@designtex.com**Received:** 7/15/2026**Completed:** 7/27/2026**Code:** W**Test Report:** 3-63225-0**Key Test:** CAN/ULC-S102.2

2745

Client's Identification:

Style: Polyester: Plush 20-22-oz. Finish: None. Composition: 100% Polyester. Weight: 21 oz/ly. Product End Use: Panel Fabric.

LE: 2018(R24) V 08/24 BG

PC: 23±3°C 50%±5% RH - ME

CODE: I=1375 F=2925 CLEAN=1000

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

TEST CONDUCTED:☐ Indicative☒ 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 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 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.

LC

Ver. 2026-01-07 14:00

Page 1 of 3

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**Tested For:** Liz Sanzari

Designtex

200 Hudson Street, 9th Floor

New York, NY 10013

USA

Phone: (212) 886-8211**Fax:****Mobile:****PO#:****Email:** esanzari@designtex.com**Received:** 7/15/2026**Completed:** 7/27/2026**Code:** W**Test Report:** 3-63225-0**Key Test:** CAN/ULC-S102.2

2745

SAMPLE PREPARATION:

- ☒ The sample consisted of two sections of materials, each approximately 432 mm in width by 2438 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 1/4" Inorganic Reinforced Cement (IRC) boards.
- ☐ Adhered to Gypsum: The test specimen was bonded to 5/8" thick Type X gypsum board.
- ☐ Other: _____

ADHESIVE (applied by SGS North America): ☒ No
☐ Yes - specify

REPORTED AS:

- ☐ INDICATIVE (Single Specimen Test):

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

- ☒ FORMAL (Average Value of three replicate tests):

Flame Spread Rating (FSR): 15
 Smoke Developed Classification: 90

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2745

RESULTS:

Specimen #	Flame Spread Value	Smoke Developed Value	Burn Distance (meters)	Time (seconds)
1	14.3	98.9	1.0	274
2	6.1	89.9	0.4	97
3	21.2	86.5	2.2	506

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.

Signed by:

Branden Gallagher

8/4/2026

BC915566495A4BD...

AUTHORIZED SIGNATURE**SGS NORTH AMERICA**

/sj /gb

Enclosure: Graphs

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Program: Steiner Tunnel (Version 1.1.0.0)

Test Method : CAN/ULC - S102.2
 Report # : 3-63225-0-W
 Test Date : 7/27/2026
 Client : Designtex
 Operator : Lauren Chapin
 Details of Preparation : The sample consisted of three sections of materials, each approximately 432 mm in width by 2438 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.
 Observations : No unusual observations.

	Specimen 1	Specimen 2	Specimen 3
Area Under Flame Curve (m min)	7.7	3.3	11.5
Flame Spread Value	14.3	6.1	21.2
Ignition Time (mm:ss)	00:06	00:09	00:08
Area Under Smoke Curve (%A min)	92.2	83.8	80.7
Smoke Developed Value	98.9	89.9	86.5
Total Gas Flow (L)	1592.4	1581.1	1562.9
Maximum Flame Front Achieved (m)	1.0 @ 274s	0.4 @ 97s	2.2 @ 506s

Flame Spread Rating : 15
 Smoke Developed Classification : 90

CERTIFICATION : I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by CAN/ULC - S102.2

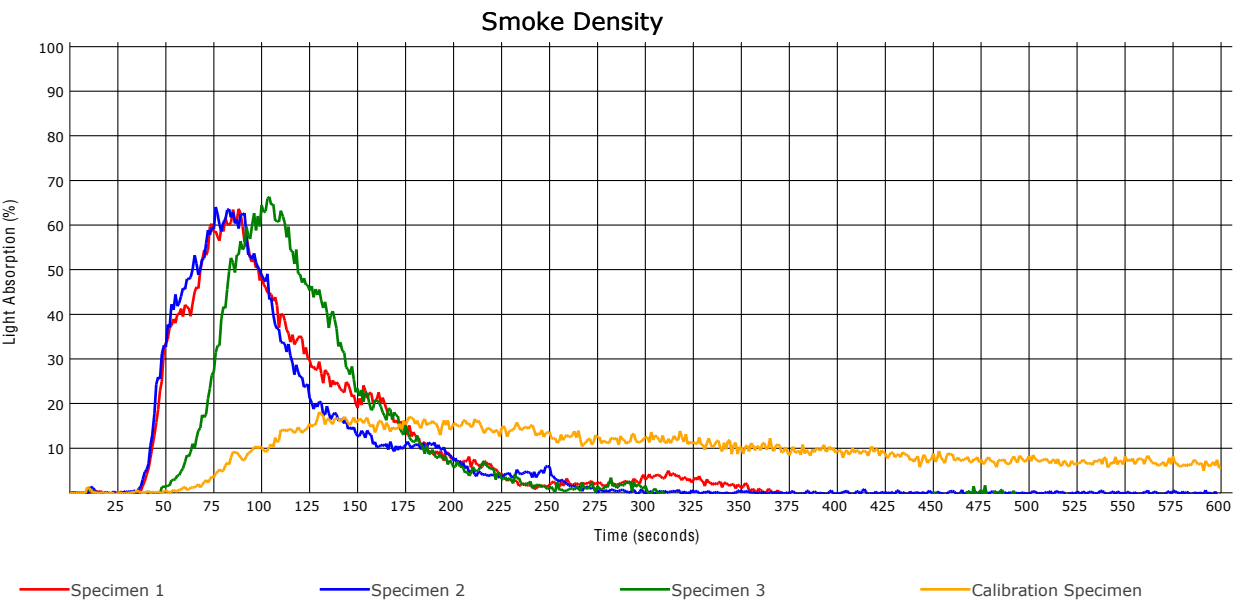
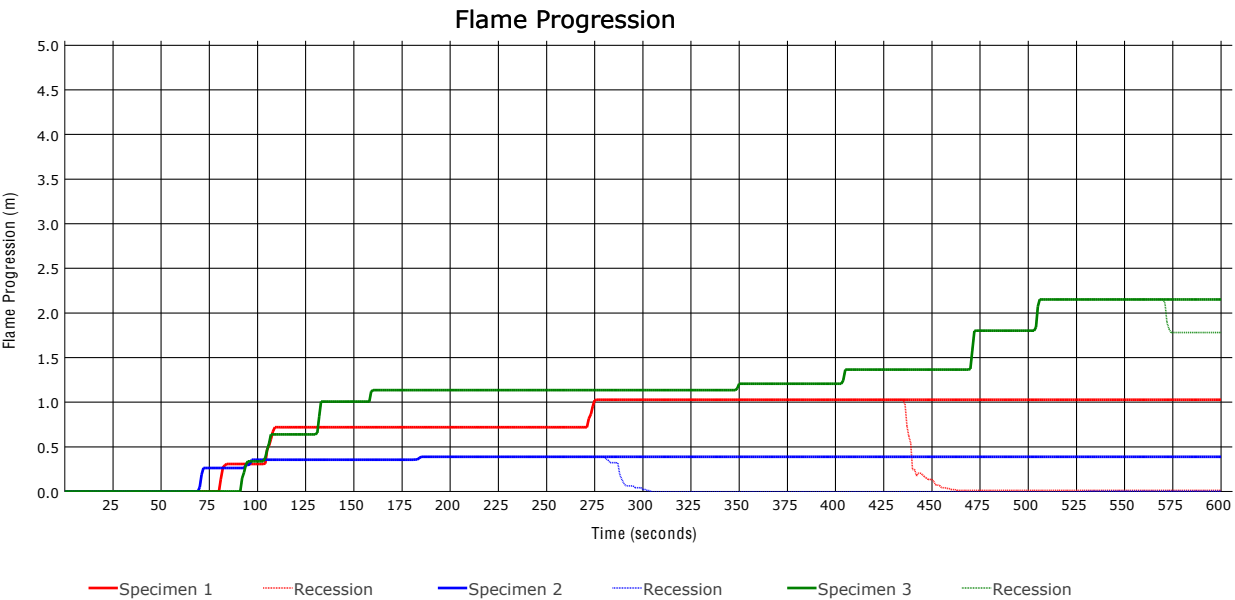
Lauren Chapin

AUTHORIZED SIGNATURE



Program: Steiner Tunnel (Version 1.1.0.0)

Test Method : CAN/ULC - S102.2
Test Report # : 3-63225-0-W





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