Flammability Certificate
4116 Billiard Panel

DESIGNTEX

4116 Billiard Panel was tested and met the following flammability requirements:

ASTM E 84 Unadhered Class A
CA TB 117-2013
CAN/ULC-S102
UL Listed

800.221.1540
designtex.com
Updated 03.14.24

Textile Testing
553 76th Street · Byron Center, MI 49315 Phone: 616.559.6123 Fax: 616.559.6119

Report Number: 61887 Rev. 1
Date: 11-25-2013

For the Account Of: Designtex
357 County Ave
Secaucus, NJ 07094
Contact: Teesha Prezeau

Client's Identification: Billiard Panel 4116

Test Performed **Standard Method of Test for Surface Burning Characteristics of Building Materials ASTM E84-13a Unadhered**

TEST RESULTS

Test Specimen	Flame Spread Index	Smoke Developed Index
Reinforced Cement Board	0	0
Red Oak Flooring	100	100
Billiard Panel 4116	10	55

Specimen Data

Time to Ignition	00.10 (min)
Maximum Flame Spread	01.62 (ft)
Time to Maximum Flame Spread	00.43 (min)

ACCEPTANCE CRITERIA

Class	Flame Spread Index	Smoke Development Rating
1 or A	0 - 25	0 - 450 maximum
2 or B	26 - 75	0 - 450 maximum
3 or C	76 - 200	0 - 450 maximum

CONCLUSION Based on the above Results and Acceptance Criteria, the item tested is:

- ☒ Class 1 or A
- ☐ Class 2 or B
- ☐ Class 3 or C
- ☐ Unrated

DISCUSSION

This test is certified for ASTM E84 by the Southern Building Code Congress International (SBCCI) as a testing laboratory for Fire and Materials testing, Evaluation Report Number TL-9606 (Commercial Testing), and by the United States Department of Commerce, National Institute of Standards and Technology (NIST), through the National Voluntary Laboratory Accreditation Program (NVLAP) for compliance with criteria set forth in NIST Handbook 150:2001, all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994.

This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from daily-constituted authorities. The test results presented in this report apply only to the samples tested and are not necessarily indicative of apparent identical or similar materials. The client provided sample selection and identification. A sampling plan, if described in the referenced test procedure, was not necessarily followed. This report shall not be used under any circumstance in advertising to the general public.

Introduction

This report is a presentation of results of a surface flammability test on the material referenced above, tested as submitted by the client.

The test was conducted in accordance with the American Society for test and Materials fire test response standard E84-13a, Surface Burning Characteristics of Building Materials, sometimes referred to as the Steiner Tunnel test. This test is applicable to exposed surfaces such as walls and ceilings. The test is conducted with the specimen in the ceiling position with the surface to be evaluated exposed face down to the ignition source. The method, which is similar to NFPA No. 255 and UL No. 723, is an American Nationals (ANSI) Standard and has been approved for use by agencies of the Department of Defense for listing in the DoD Index of Specifications and Standards.

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of materials, products, or assemblies under actual fire conditions.

Textile Testing
553 76th Street · Byron Center, MI 49315 Phone: 616.559.6123 Fax: 616.559.6119

Report Number: 61887 Rev. 1
Date: 11-25-2013

The purpose of the test is to provide only the comparative measurements of surface flame spread and smoke development of materials with that of select grade red oak and reinforced cement board under specific fire exposure conditions. The test exposes a nominal 24-foot long by 20-inch wide test specimen to a controlled airflow and flaming fire adjusted to spread the flame along the entire length of a red oak specimen in 5.50 minutes. During the ten-minute test duration, flame spread over the specimen surface and density of the resulting smoke are measured and recorded. Test results are calculated relative to red oak, which has an arbitrary rating of 100, and reinforced cement board, which has a rating of 0.

The test results are expressed as Flame Spread Index and Smoke Developed Index. The Flame Spread Index is defined in ASTM E 176 as a number or classification indicating a comparative measure derived from observations made during the progress of the boundary of a zone of flame under defined test conditions. The Smoke Developed Index, a term specific to ASTM E-84, is defined as a number or classification indicating a comparative measure derived from smoke obscuration data collected during the test for surface burning characteristics. There is not necessarily a relationship between the two measurements.

The method does not provide for measurement of heat transmission through the surface tested, the effect of aggravated flame spread behavior of an assembly resulting from the proximity of combustible walls and ceilings, or classifying a material as noncombustible solely by means of a Flame Spread Index.

The zero reference and other parameters critical to furnace operation are verified on the day of the test by conducting a 10-minute test using 1/4-inch reinforced cement board. Periodic tests using NOFMA certified 23/32-inch select grade red oak flooring provide data for the 100 reference.

Test Sample
The test sample, selected by the client was conditioned to equilibrium in an atmosphere with the temperature maintained at 71 +/- 2°F and the relative humidity at 50 +/- 5 percent. For testing, two 12-foot lengths of the fabric were free laid over a 2-inch hexagonal wire mesh supported by 1/4-inch diameter steel rods spanning the ledges of the tunnel furnace at 24-inch intervals. This method of sample support is described in appendix X1 of the E-84 standard, Guide to Mounting Methods, Section X1.1.2.2 and X1.1.2.3.

Test Results
The test results, calculated on the basis of observed flame propagation and the integrated area under the recorded smoke density curve, are presented below. The Flame Spread Index obtained in E-84 is rounded to the nearest number divisible by five. Smoke Developed Indices are rounded to the nearest number divisible by five unless the Index is greater than 200. In that case, the Smoke Developed Index is rounded to the nearest 50 points. Flame spread and smoke development data are presented graphically in the computer printout at the end of this report.

Clarification on Codes
Code officials frequently use the Flame Spread Index and Smoke Developed Index values obtained by the ASTM E-84 test and regulatory agencies in the acceptance of interior finish materials for various applications. The most widely accepted classification system is described in the National Fire Protection Association publication NFPA 101 Life Safety Code, where:

Standard Classification System:

Class	Flame Spread Index	Smoke Development Rating
1 or A	0 - 25	0 - 450 maximum
2 or B	26 - 75	0 - 450 maximum
3 or C	76 - 200	0 - 450 maximum

Class A, B and C corresponds to Type I, II, and III respectively in other codes such as SBCCI, BOCA, and ICBO. They do not prelude a material being otherwise classified by the authority of jurisdiction.

The description of the test procedure and specimen evaluated, as well as the observations and results obtained, contained herein are true and accurate within the limits of sound engineering practice. These test results were obtained from an outside source. A copy of the original document is kept on file at Applied Textiles

CERTIFICATION: I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above. These results were obtained from an outside source.

C. Vanhuman

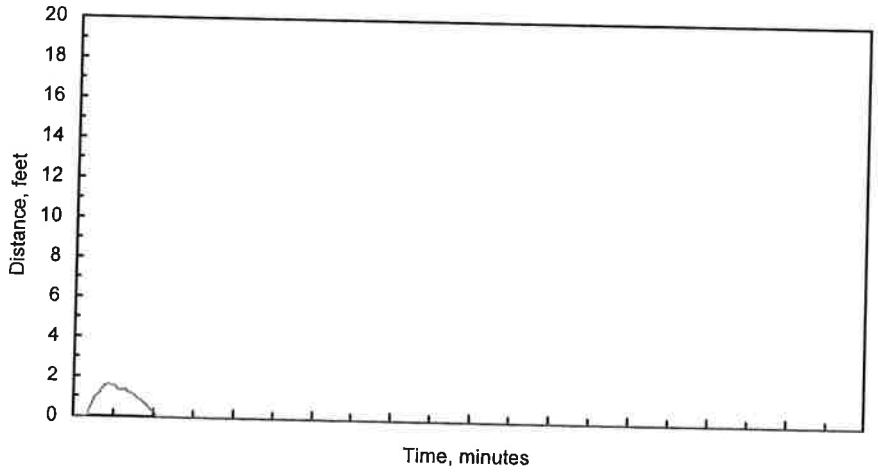
Authorized Signature

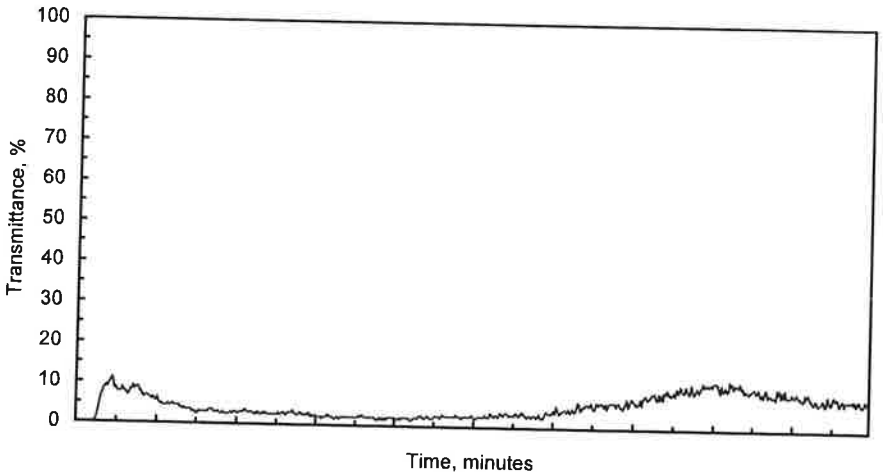
ASTM E 84 TEST DATA

Client: Applied Textiles
Test Number: 4475-9909
Material Tested: Billiard Panel
Date: December 26, 2013

Test Results:

Time to Ignition	=	00.10 minutes
Maximum Flamespread Distance	=	01.62 feet
Time to Maximum Spread	=	00.43 minutes
Flame Spread Index	=	10
Smoke Developed Index	=	55





Vartest Laboratories

Quality Assurance & Compliance Testing
Utilizing Textile & Related Technologies
19 West 36th Street, 10th Floor
New York, NY 10018
Tel: 212 947 8391 Fax: 212 947 8719

www.vartest.com

ISO/IEC 17025 Third Party Test Report

DATE: May 3, 2023

FILE: DESTEX.A042623A

CLIENT: Designtex
357 County Ave.
Secaucus, NJ 07094

ATTN: Teesha Prezeau

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted
Name: Billiard Panel
Style #: 4116
Weight: 15 oz/Lyd
100% Polyester
Color 401 Blue

TEST PROCEDURE:

TEST RESULTS:

CALIFORNIA
TECHNICAL BULLETIN 117-2013
****

	CHAR LENGTH	OPEN FLAME	SMOULDER TIME OVER 45 MINUTES
	**********	*******	**********
SPECIMEN 1:	15.0 mm	N	N
SPECIMEN 2:	15.0 mm	N	N
SPECIMEN 3:	18.0 mm	N	N

TEST RESULT: PASS

A material is considered to pass or fail based on the following criteria:
1. A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs:
   a) The mock-up test specimen continues to smolder after the 45-minute test duration.
   b) A char develops more than 1.8 inches (45 mm) in any direction from the cigarette on the cover fabric measured from its nearest point.
   c) The mock-up test specimen transitions to open flaming.

2. The cover fabric passes the test if three initial mock-up specimens pass the test, i.e., the cigarettes burn their full length and the mock-up are no longer smoldering.
3. If more than one initial specimens fails, the cover fabric fails the test.
4. If any one of the three initial specimen fails, repeat the test on an additional three specimens.
5. If all three additional specimens pass the test, the cover fabric passes the test. If any one of the three additional specimens fails, the cover fabric fails the test.

Signed For The Company By

Joseph Lin
Laboratory Manager

VARTEST Tested & Evaluated LABORATORIES

Stacy Sadowy
Quality Assurance Manager

CS/05

SGS

Tested For:	**Adity Phadnis**	**Phone:**	(201) 917-7743	**Received:**	3/31/2021
	Designtex	**Fax:**		**Completed:**	4/12/2021
	357 County Avenue	**Mobile:**		**Code:**	B
	Secaucus, NJ 07094	**PO#:**		**Test Report:**	3-43197-0
	USA	**Email:**	aphadnis@designtex.com		

Key Test: CAN/ULC-S102 3072

Client's Identification:
Style: Billiard Panel 4116. Composition: 100% Polyester. Weight: 15 oz/ In yard.

LE: 2010 V09/18 PC: ME CODE: I=1444 F=3072 CLEAN=1050

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^2min, 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.

96 Allen Boulevard Suite D, Farmingdale, NY 11735 USA • Phone: (631) 293-8944 • Email: govmark.test.reports@sgs.com

SGS

Tested For:	**Adity Phadnis**	**Phone:**	(201) 917-7743	**Received:**	3/31/2021
	Designtex	**Fax:**		**Completed:**	4/12/2021
	357 County Avenue	**Mobile:**		**Code:**	B
	Secaucus, NJ 07094	**PO#:**		**Test Report:**	3-43197-0
	USA	**Email:**	aphadnis@designtex.com		

Key Test: CAN/ULC-S102 3072

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 6mm fiberglass reinforced cement board substrate.

☒ Other: The sample consisted of three 2438 mm sections butted end to end to make the 7315 mm length. The specimen was laid over a 2" hexagonal wire mesh screen and ¼" rods.

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): 45

RESULTS:

Specimen #	Flame Spread Value	Smoke Developed Value	Burn Distance (meters)	Time (seconds)
1	16	43	0.9	36
2	6	59	0.3	34
3	12	38	0.7	25

OBSERVATIONS:

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

96 Allen Boulevard Suite D, Farmingdale, NY 11735 USA • Phone: (631) 293-8944 • Email: govmark.test.reports@sgs.com

SGS

Tested For:	**Adity Phadnis**	**Phone:**	(201) 917-7743	**Received:**	3/31/2021
	Designtex	**Fax:**		**Completed:**	4/12/2021
	357 County Avenue	**Mobile:**		**Code:**	B
	Secaucus, NJ 07094	**PO#:**		**Test Report:**	3-43197-0
	USA	**Email:**	aphadnis@designtex.com		

Key Test: CAN/ULC-S102 3072

REMARKS: None.

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

AUTHORIZED SIGNATURE
SGS NORTH AMERICA
/jab

Bobby

Enclosure: 1 Graph Chart (Formal)

APR 15 2021

96 Allen Boulevard Suite D, Farmingdale, NY 11735 USA • Phone: (631) 293-8944 • Email: govmark.test.reports@sgs.com

SGS GOVMARK

Program: CAN S-102 (Version 1.10)

Test Method	: CAN S-102
Test Report #	: 3-43197-0-B
Date	: 4/12/2021
Client	: Designtex
Operator	: Jimmy Rosinsky
Details of Preparation	: The test sample consisted of three 8 ft. sections butted end to end to make the 24 ft. length. The specimen was laid over 2" hexagonal wire mesh screen and 1/4" rods.
Observations	: No unusual observations

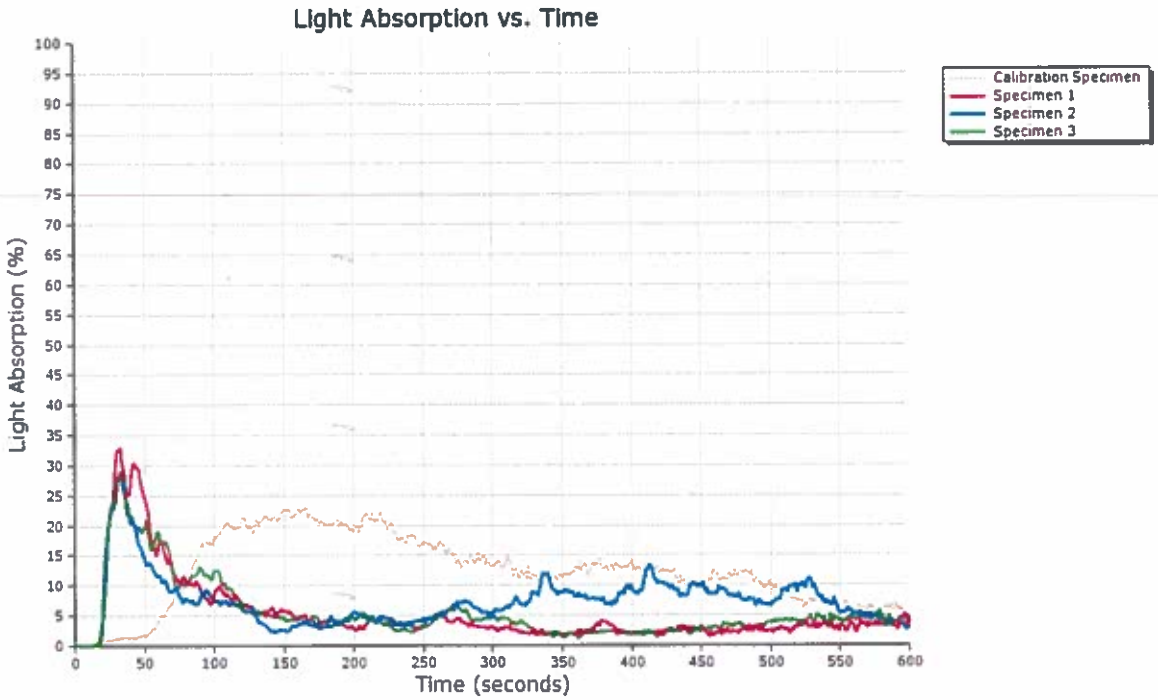
	Specimen 1	Specimen 2	Specimen 3
Area Under Flame Curve (m min)	8.88	3.22	6.29
Raw Flame Spread Value (m min)	16.42	5.95	11.64
Rounded Flame Spread Value (m min)	**16**	**6**	**12**
Ignition Time	**00:08 mm:ss**	**00:08 mm:ss**	**00:08 mm:ss**
Area Under Smoke Curve (%A min)	52.59	72.33	47.20
Raw Smoke Developed Value	42.54	58.51	38.18
Rounded Smoke Developed Value	**43**	**59**	**38**
Total Gas Flow(L)	1145.5	1145.4	1144.7
Total Gas Flow(ft^3)	40.5	40.4	40.4
Maximum Flame Front Achieved(m)	0.9 (@36s)	0.3 (@34s)	0.7 (@25s)

Flame Spread Rating : **10**
Smoke Developed Classification : **45**

SGS GOVMARK

Program: CAN S-102 (Version 1.10)

Test Method : CAN S-102
Test Report # : 3-43197-0-B

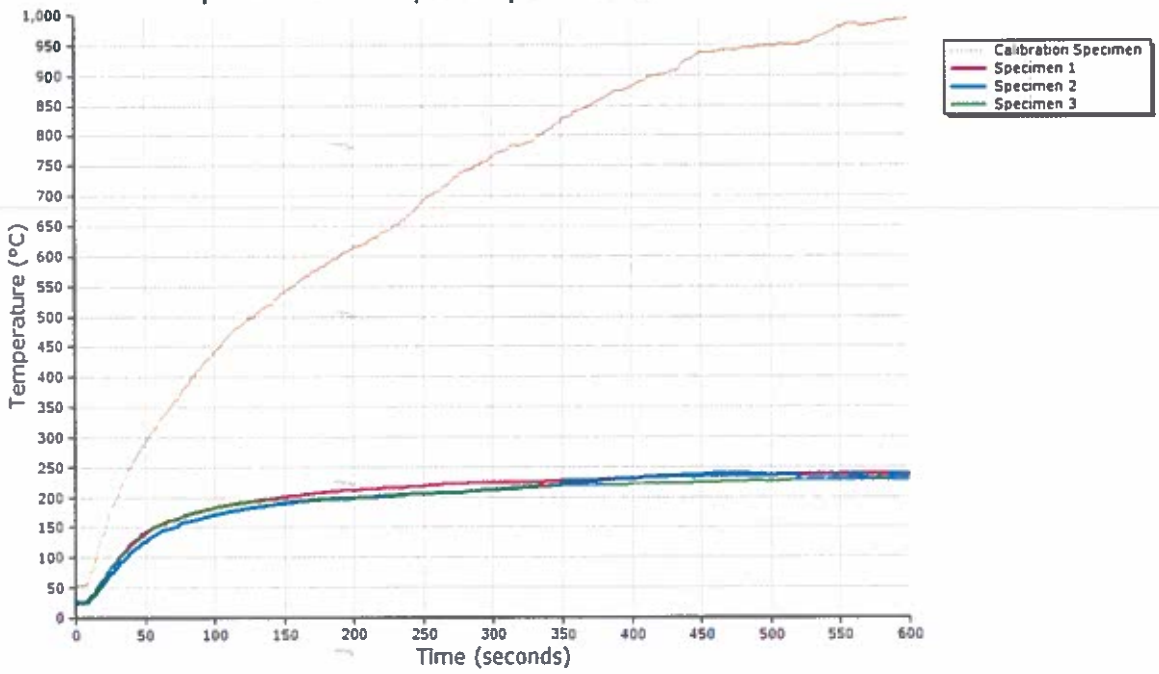


SGS GOVMARK

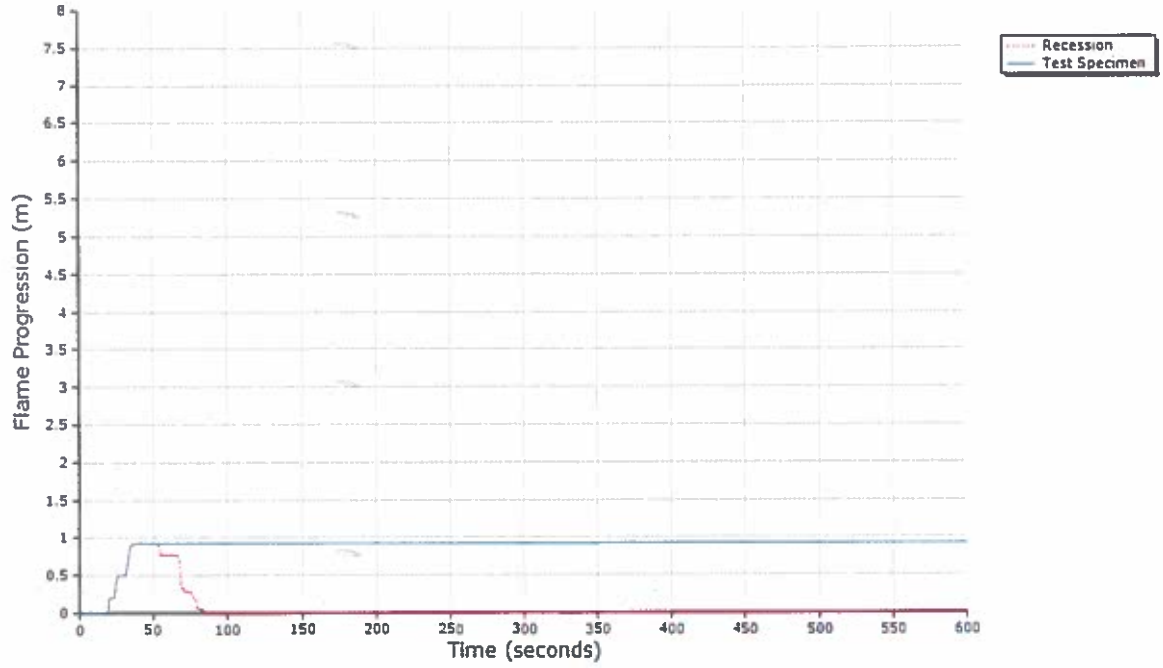
Program: CAN S-102 (Version 1.10)

Test Method : CAN S-102
Test Report # : 3-43197-0-B

Exposed Thermocouple Temperature vs. Time



Specimen 1: Flame Progression vs. Time

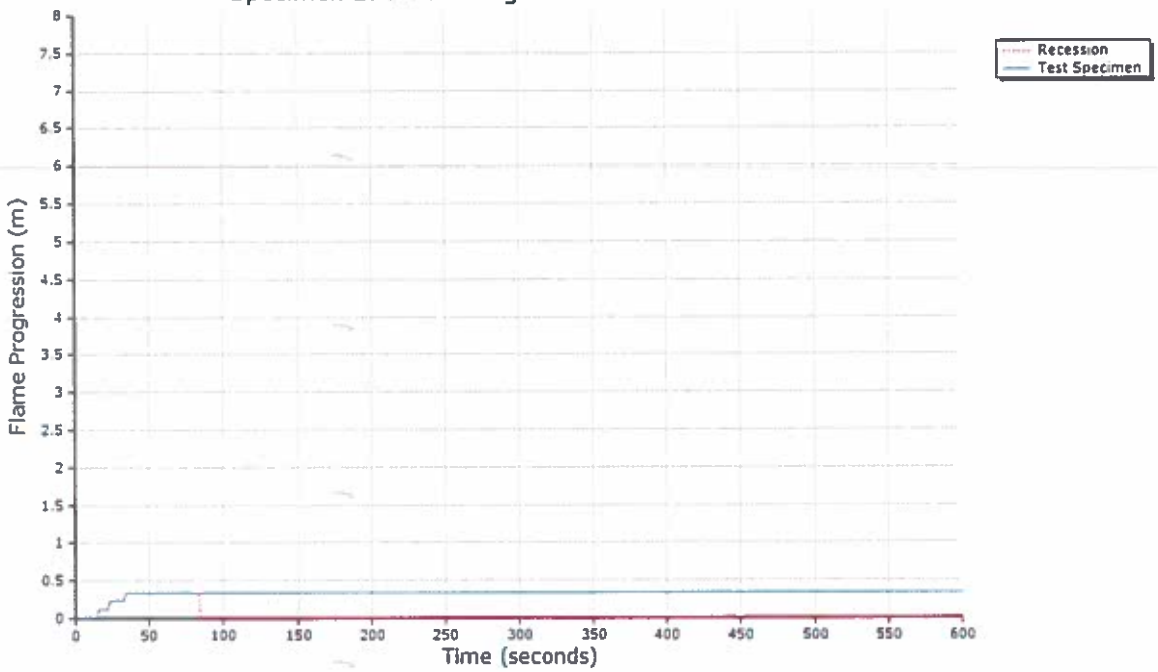


SGS GOVMARK

Program: CAN S-102 (Version 1.10)

Test Method : CAN S-102
Test Report # : 3-43197-0-B

Specimen 2: Flame Progression vs. Time



SGS GOVMARK

Program: CAN S-102 (Version 1.10)

Test Method : CAN S-102
Test Report # : 3-43197-0-B

Specimen 3: Flame Progression vs. Time