

3762 Crossweave was tested and met the following flammability requirements:

ASTM E84 Unadhered Class A

CA TB 117-2013

CAN/ULC-S102

UL Recognized Component

CERTIFICATE OF TESTING

For the Account Of: Designtex
357 County Ave
Secaucus, NJ 0794

Contact: Teesha Prezeau

Client's Identification: Crossweave 3762

TEST PERFORMED Standard Method of Test for Surface Burning Characteristics of Building Materials ASTM E84-15b Unadhered

TEST RESULTS

Test Specimen	Flame Spread Index	Smoke Developed Index
Reinforced Cement Board	0	0
Red Oak Flooring	100	100
Crossweave 3762	5	70

Specimen Data

Time to Ignition	00.07 (min)
Maximum Flame Spread	01.01 (ft)
Time to Maximum Flame Spread	00.53 (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 a material submitted by client.

The test was conducted in accordance with the American Society for test and Materials fire test response standard E84-15, 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 National Standard (ANSI) 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.

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

CERTIFICATE OF TESTING

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 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.

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

<u>Class</u>	<u>Flame Spread Index</u>	<u>Smoke Development Rating</u>
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 correspond to Type I, II, and III respectively in other codes such as SBCCI, BOCA, and ICBO. They do not preclude 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 test results were obtained from an outside source.



Authorized Signature CR



Received: 10/03/2016	Completed: 10/06/2016	Letter: S	BG	P.O.#:	Test Report #:	3-15718-0-
Client's Identification	Cover Material: Crossweave. 66% Recycled Polyester, 34% Polyester. 54" wide. 16.5 oz/lin yard.					
Tested For: Teesha Prezeau Designtex 357 County Avenue Secaucus, NJ 07094	Key Test: CA TB 117-2013 (Section 1-Cover Fabric) /ACT				235	
	Tel: 1-(201)-917-7738				Ext:	
	Fax: 1-(201)-917-7764					

Test Category: Cigarette Ignition Specifier: ACT LE 2015; V 08/15 NTR 9/15
Product Category: Upholstery PC: 24H dl/SM

TEST PERFORMED: California Technical Bulletin 117-2013 - Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture (June 2013 Version)

Section 1, Cover Fabric Test (Upholstery cover material is the outermost layer of fabric or related material used to enclose the main support system or upholstery materials, or both, used in the furniture item.) --

As cited by the ACT Voluntary Performance Guidelines (January 2015)

REFERENCE: ASTM E1353-08ae1

IGNITION SOURCE: SRM 1196 Cigarette

SPECIMEN TEST COMPOSITE:

Upholstery Cover Material: As described in "Client's Identification".

Standard Substrate Material: Non FR polyurethane foam, density 1.8 ± 0.05 lb/ft³

BRIEF DESCRIPTION OF TEST: Miniature cushions are prepared using the client's cover fabric over the standard filling material. The vertical or back cushions measure 8" x 8" x 2". The horizontal or seat cushions measure 8" x 5" x 2".

A lighted cigarette is placed in the crevice formed by the vertical cushion and the horizontal cushion.

The test is terminated at 45 minutes if smoldering is no longer observed.

Test measurements and observations are recorded.

-- See Page 3 for "Results" and "Conclusion" --



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Designtex	Tel: 1-(201)-917-7738				Ext:	
357 County Avenue	Fax: 1-(201)-917-7764					
Secaucus, NJ 07094						

PASS/FAIL/REPEAT CRITERIA: 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 vertical char length (measured as specified in step 11.9 of ASTM E1353-08ae1) of more than 1.8 inches (45 mm) develops on the cover fabric.
 - 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 entire length and the mock-ups are no longer smoldering.
3. If more than one initial specimen fails, the cover fabric fails the test.
4. If any one of the three initial specimens fails, repeat the test on additional three specimens.
5. If all three additional specimens pass the test, the cover fabric passes the test. If any one of the additional three specimens fails, the cover fabric fails the test.

DISCUSSION: The current version of California Technical Bulletin 117-2013 has no provision to recognize cigarettes that self-extinguish prior to burning their entire length. However, ASTM E 1353 does recognize this phenomenon.

The Govmark report evaluates replacement cigarettes as follows:

If a cigarette self-extinguishes (SE) before burning its entire length, a new cigarette is placed into the test. If the new (replacement) cigarette self-extinguishes or burns its entire length, the result for that specimen will then be evaluated as if the cigarette burned its entire length when assigning the "Passing/Failure" conclusion.



Received: 10/03/2016 Completed: 10/06/2016 Letter: S BG P.O.#: Test Report #: 3-15718-0-

Client's Identification Cover Material: Crossweave. 66% Recycled Polyester, 34% Polyester. 54" wide. 16.5 oz/lin yard.

Tested For: Teesha Prezeau Key Test: CA TB 117-2013 (Section 1-Cover 235
 Designtex Fabric)/ACT
 357 County Avenue Tel: 1-(201)-917-7738 Ext:
 Secaucus, NJ 07094 Fax: 1-(201)-917-7764

RESULTS:

	Specimen #	Char Length (inches)	SE (yes/no)	SB45 (yes/no)	TOF (yes/no)
Initial:	1	0.3	No	No	No
	2	0.4	No	No	No
	3	0.4	No	No	No
Replacement: (If needed)	1				
	2				
	3				
Repeat Tests: (If needed)	1				
	2				
	3				

EXPLANATION:

Initial: These are the first 3 cigarettes where the results could be sufficient to draw a test conclusion.

Replacement: If any of the initial cigarettes self-extinguish before burning their complete length, a new test is conducted with a fresh cigarette.

Repeat Test: Depending on the initial or replacement results, 3 repeat tests might be required to draw a conclusion.

CODES USED:

SE = Cigarette self-extinguished; See "Discussion" on Page 2
 SB45 = Smolder beyond 45 minutes
 TOF = Transitions to open flaming
 MNR = Measurement not recorded as smoldering exceeded 45 minutes or specimen transitioned to open flames
 EC = Escalating smoldering combustion: Extinguished by technician at:
 (mm: ss) _____ : _____ due to unsafe conditions.

CONCLUSION:

The above results reported for the initial and / or replacement cigarettes are sufficient to indicate:

Passing; Failure; Repeat test on 3 additional specimens

The results after conducting the repeat tests indicate:

Passing; Failure



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Tested For: Teesha Prezeau	Designtex 357 County Avenue Secaucus, NJ 07094				Key Test: CA TB 117-2013 (Section 1-Cover Fabric) /ACT	235
					Tel: 1-(201)-917-7738	Ext:
					Fax: 1-(201)-917-7764	

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
 GOVMARK
 /mo lpm

(Page 4 of 4)

Douglas W. Lipp

OCT 06 2016



Tested For: Teesha Prezeau	Phone: (201) 917-7738	Received: 6/10/2025
DesignTex	Fax:	Completed: 6/13/2025
357 County Avenue	Mobile:	Code: A
Secaucus, NJ 07094	PO#:	Test Report: 3-59646-0-RV
USA	Email: tprezeau@designtex.com	

Key Test: CAN/ULC-S102.2

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Client's Identification:

Style: Polyester: Plain Weave, 12.5-14.5 oz. Composition: 100% Polyester. Finish: None. Weight 13.5 oz/lyz. End Use: Panel

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.

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Tested For: Teesha Prezeau
 Designtex
 357 County Avenue
 Secaucus, NJ 07094
 USA

Phone: (201) 917-7738
Fax:
Mobile:
PO#:
Email: tprezeau@designtex.com

Received: 6/10/2025
Completed: 6/13/2025
Code: A
Test Report: 3-59646-0-RV

Key Test: CAN/ULC-S102.2

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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 not adhered to any substrate. Instead, it was free laid over a 6 mm fiber cement paper. The 24 ft. length was comprised of three 8 ft. sections butted end to end.

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: 215

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Tested For: Teesha Prezeau
 Designtex
 357 County Avenue
 Secaucus, NJ 07094
 USA

Phone: (201) 917-7738
Fax:
Mobile:
PO#:
Email: tprezeau@designtex.com

Received: 6/10/2025
Completed: 6/13/2025
Code: A
Test Report: 3-59646-0-RV

Key Test: CAN/ULC-S102.2

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RESULTS:

Specimen #	Flame Spread Value	Smoke Developed Value	Burn Distance (meters)	Time (seconds)
1	5.5	206.7	0.9	522
2	19.0	223.3	1.3	152
3	19.8	221.6	1.4	183

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

9/8/2025

BC915566495A4BD...

AUTHORIZED SIGNATURE
 SGS NORTH AMERICA
 /jo/jl

RV: 9/8/25; bg



Enclosure: Graphs

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Program: Steiner Tunnel (Version 1.0.3.0)

Test Method : CAN/ULC - S102.2
 Report # : 3-59646-0-RV-A
 Test Date : 6/13/2025
 Client : Designtex
 Operator : Jimmy Rosinsky
 Details of Preparation : The test specimen was not adhered to any substrate. Instead, it was free laid over a 6mm fiber cement paper. The 24 ft. length was comprised of three 8 ft. sections butted end to end.
 Observations : No unusual observations

	Specimen 1	Specimen 2	Specimen 3
Area Under Flame Curve (m min)	3.0	10.3	10.7
Flame Spread Value	5.5	19.0	19.8
Ignition Time (mm:ss)	01:00	01:36	01:15
Area Under Smoke Curve (%A min)	65.3	70.6	70.0
Smoke Developed Value	206.7	223.3	221.6
Total Gas Flow (L)	1595.9	1593.8	1595.9
Maximum Flame Front Achieved (m)	0.9 @ 522s	1.3 @ 152s	1.4 @ 183s

Flame Spread Rating : 15
Smoke Developed Classification : 215

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

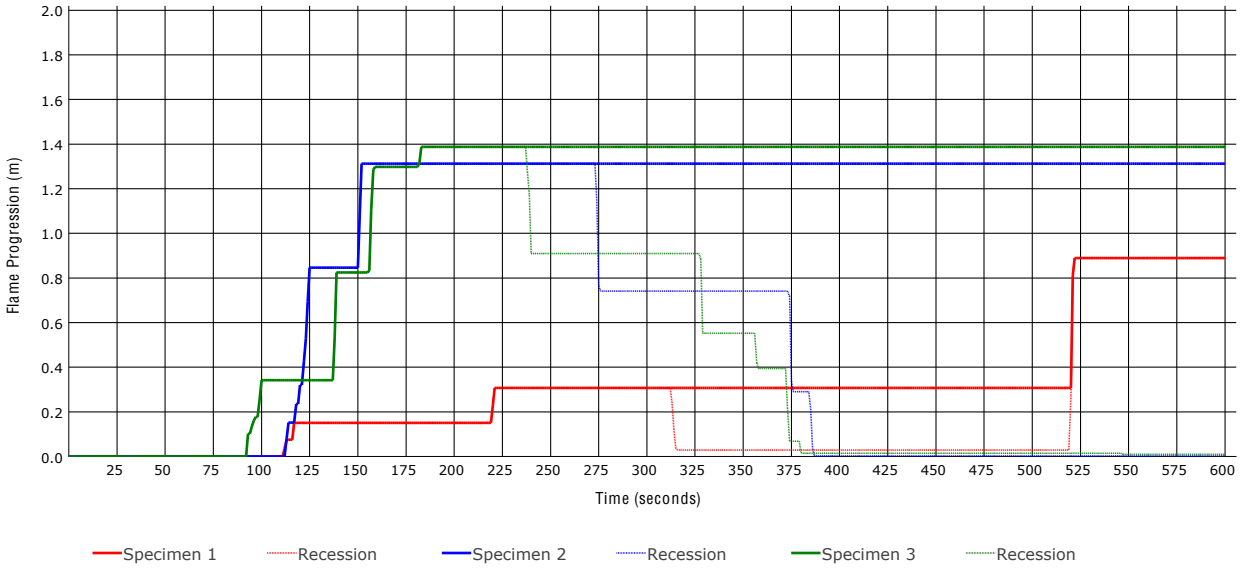
Jimmy Rosinsky

 AUTHORIZED SIGNATURE

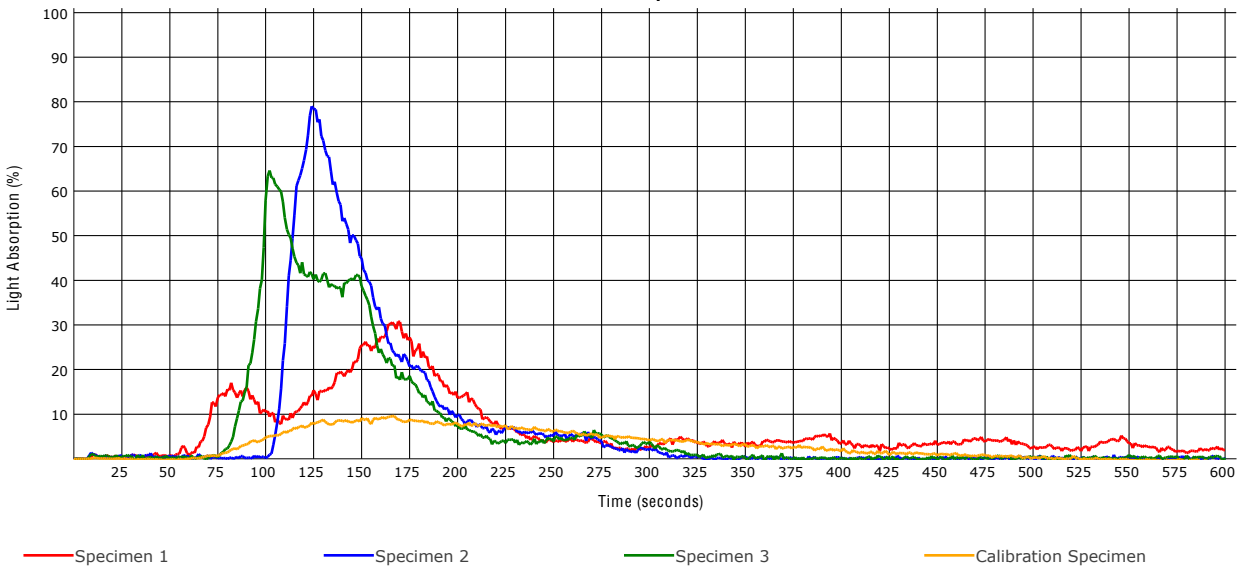


Test Method : CAN/ULC - S102.2
Test Report # : 3-59646-0-A

Flame Progression



Smoke Density





Test Method : CAN/ULC - S102.2
Test Report # : 3-59646-0-A

