Flammability Certificate 3762 Crossweave

Designtex

 ${\bf 3762\ Crossweave\ was\ tested\ and\ met\ the\ following\ flammability\ requirements:}$

ASTM E 84 Unadhered Class A CA TB 117-2013 UL Listed



Report Number: 78685 Date: 3-15-2016

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:

\boxtimes	Class 1 or A
	Class 2 or E
	Class 3 or 0
П	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 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.

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

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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

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>	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 correspond 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 test results were obtained from an outside source.

Snewy	
Authorized Signature CR	_



Page 1

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

Tel: 1-(201)-917-7738

Ext:

Fax: 1-(201)-917-7764

Test Category: Cigarette Ignition

Product Category: Upholstery

Specifier: ACT

LE 2015; V 08/15

NTR 9/15

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.) --

illicale reem;

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 $8" \times 8" \times 2"$. The horizontal or seat cushions measure $8" \times 5" \times 2"$.

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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Page 2

Received: 10/	03/2016 Completed: 10/06/2016	Letter: S	BG	P.O.#:	Test Report #:	3-	15718-0-
Client's Identificatio	Cover Material: Crossweave. 60	5% Recycled Poly	yester	34% Polyester. 54"	wide. 16.5 oz/lin yard.		
Tested For:	Teesha Prezeau			Key Test	: CA TB 117-2013 (Sect	tion 1-Cover	235
	Designtex 357 County Avenue			Tel:	Fabric) /ACT 1-(201)-917-7738	Ext:	
	Secaucus, NJ 07094				1-(201)-917-7764		

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 E1353-08ael) 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.



Page 3

eceived: 10/03/2016	Completed: 10/06/201	6 Letter: S	BG	P.O.#:	epith-Activities	Test Report #:	3-15718-0
Client's Cover	Material: Crossweave			l	er. 54" wide. 10	· ·	
	ex enty Avenue			Ke	Fabric Tel: 1-(20)	B 117-2013 (Sections) /ACT	on 1-Cover 23
Secaucu	s, NJ 07094	7//2011 XXXXIII			Fax: 1-(20)	1)-917-7764	
ESULTS:	Specimen #	Char Length (inches)		SE (yes/no)	SB45 (yes/no)	-	
Initial:	1 2 3	0.3 0.4 0.4		No No No	No No No	No No No	
Replacement: (If needed)	1 2 3						
Repeat Tests: (If needed)	1 2 3						
XPLANATION:							
Initial:	These are the fi		es wh	ere the re	sults could	be sufficient	to
Replacement:	If any of the in length, a new te					burning their	complete
Repeat Test:	Depending on the		place	ement resul	ts, 3 repea	t tests might	be required
ODES USED:							
SB45 = Smolde TOF = Transi MNR = Measure transi EC = Escala	tte self-extinguir beyond 45 minut tions to open flamement not recorde tioned to open flating smoldering cos);	es ming d as smoldering ames ombustion: Ext	g exc	eeded 45 m	inutes or s		
ONCLUSION: The above resuindicate:	ults reported for	the initial an	nd /	or replace	ment cigare	ttes are suffi	cient to
[x] Passin	g; [] Failure;	[] Repeat test	t on	3 addition	al specimen	s	
The results a	fter conducting t	he repeat test:	s ind	licate:			
[] Passing	g; [] Failure	(Page	3 of	: 4)			



Page 4

Received: 10/0	3/2016 C	completed: 10/06/2016	Letter: S	BG	P.O.#:	Test Report #:		3-15718-0-
Client's Identification	PORCHERON CONTRACTOR CONTRACTOR	1aterial: Crossweave. 66	5% Recycled P	olyester,	, 34% Polyester. 54" v	wide. 16.5 oz/lin yard.		
Tested For: 7	Гееsha F	Prezeau			Key Test:	CA TB 117-2013 (Sec	ction 1-Cover	235
Ι	Designtex					Fabric) /ACT		
3	357 Count	ty Avenue			Tel:	1-(201)-917-7738	Ext:	
5	Secaucus,	NJ 07094			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 0 6 2016