

**3054 Check was tested and met the following flammability requirements:**

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



<b>Tested For:</b> Liz Sanzari	<b>Phone:</b> (212) 886-8211	<b>Received:</b> 7/10/2023
Designtex	<b>Fax:</b>	<b>Completed:</b> 7/14/2023
200 Hudson Street, Suite 900	<b>Mobile:</b>	<b>Code:</b> Q
New York, NY 10013	<b>PO#:</b>	<b>Test Report:</b> 3-52281-0
USA	<b>Email:</b> esanzari@designtex.com	

**Key Test:** ASTM E84/ACT

630

**Client's Identification:**

Style: 3054 Check. Composition: 100% Polyester. Finish: None. Weight: 28 oz / ly. Product End Use: Upholstered Wall, Upholstery.

Test Category: Tunnel Test      Specifier: ACT      LE 2023; V 3/23 BG      PC: ME

TEST PERFORMED: ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials [LE 2018a; V 9/18] --

As cited by the Association of Contract Textiles (ACT) Voluntary Performance Guidelines (December 2021)

APPROXIMATE THICKNESS OF SPECIMEN (as measured by SGS North America): 0.046"

SPECIMEN WEIGHT (to include substrate when applicable):

Prior to Conditioning: 5.0 lbs.

Stabilized Weight (taken twice within 24 hours): 5.0 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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**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 ¼" 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 ¼" rods.
- Other: \_\_\_\_\_

**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: \_\_\_\_\_

**ADHESIVE** (applied by SGS North America):  No Yes (specify): \_\_\_\_\_**OBSERVATIONS:**

- No unusual observations
- Burning Drips to Floor further qualified as:  Minor;  Moderate;  Major
- Delamination
- Sagging
- Shrinkage
- Fallout (specimen displacement from ceiling mount)
- Other: \_\_\_\_\_

**REMARKS:**  None Other: \_\_\_\_\_

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**RESULTS:** Flame Spread Index: 5  
Smoke Developed: 200

**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
<b>Class A</b>	0 - 25	450 or less

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

**CONCLUSION:** Based on the reported Results and cited Acceptance Criteria, the item tested:

Complies       Does not comply

**DATA SUMMARY:**

Time to Ignition (minutes:seconds): 00:18

Maximum Flame Spread "Distance" (feet): 1.0

Maximum Flame Spread "Time" (seconds): 74

**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.)

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## CODE CLASSIFICATION SYSTEM:

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

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.

DocuSigned by:

*Bobby Brown*

B50EB94D593C454...

7/21/2023

AUTHORIZED SIGNATURE

SGS NORTH AMERICA

/ab /dv

Enclosure: Graphs

Test Engineer: Jimmy Rosinsky

DS  
*BB*

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Program: Steiner Tunnel (Version 1.0.3.0)

Test Method : ASTM E84  
Report # : 3-52281-0-Q  
Test Date : 7/14/2023  
Client : Designtex  
Operator : Jimmy Rosinsky  
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 three 8 ft. sections butted end to end.  
Observations : Moderate burning drips to the oven floor that continued to burn.

**Results**

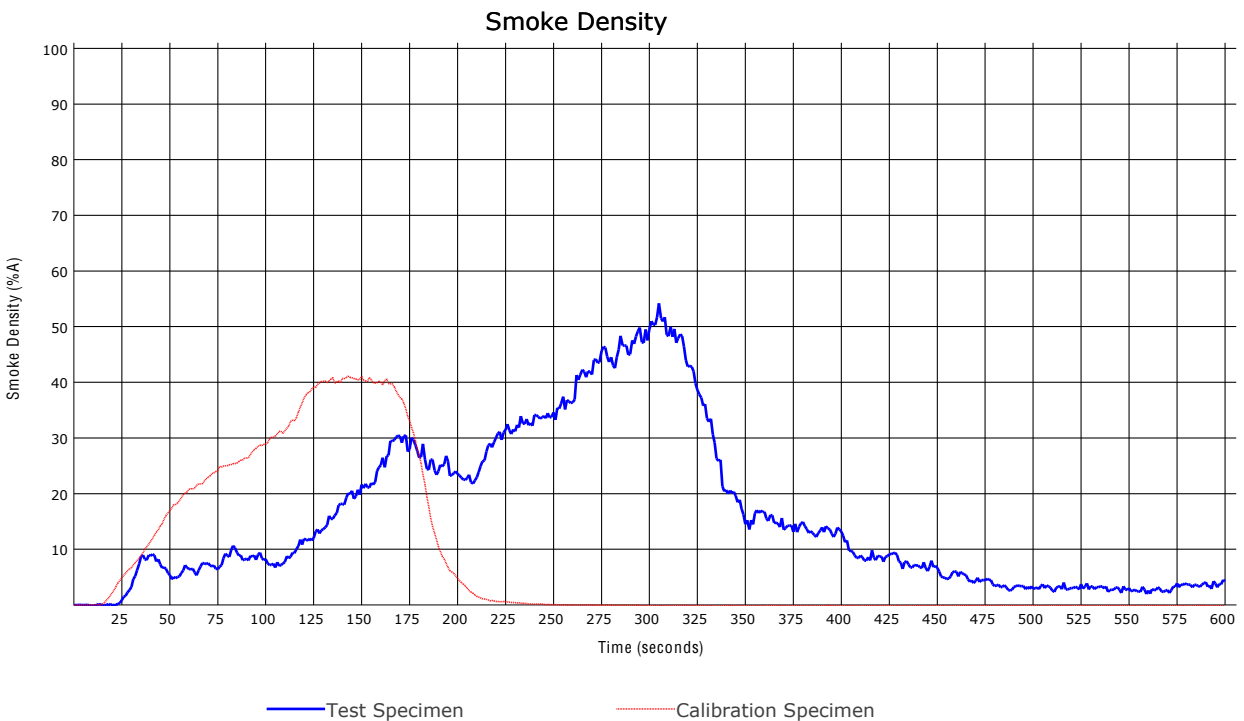
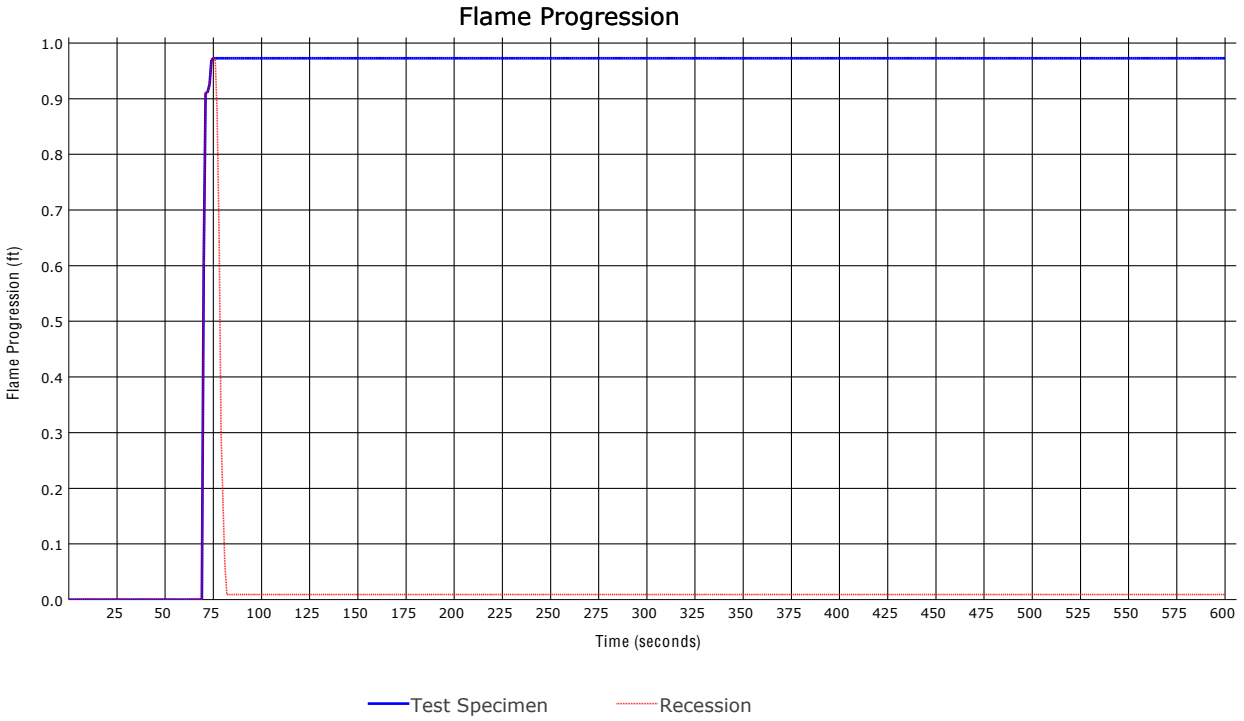
Area Under Flame Curve (ft min) : 8.59  
Raw Flame Spread Index : 4.42  
Ignition Time (mm:ss) : 00:18  
Area Under Smoke Curve (%A min) : 159.79  
Raw Smoke Developed Index : 202.51  
Total Gas Flow (ft<sup>3</sup>) : 56.8  
Maximum Flame Front Achieved (ft) : 1.0 @ 74s  
**Flame Spread Index : 5**  
**Smoke Developed Index : 200**  
**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

*Jimmy Rosinsky*  
\_\_\_\_\_  
AUTHORIZED SIGNATURE



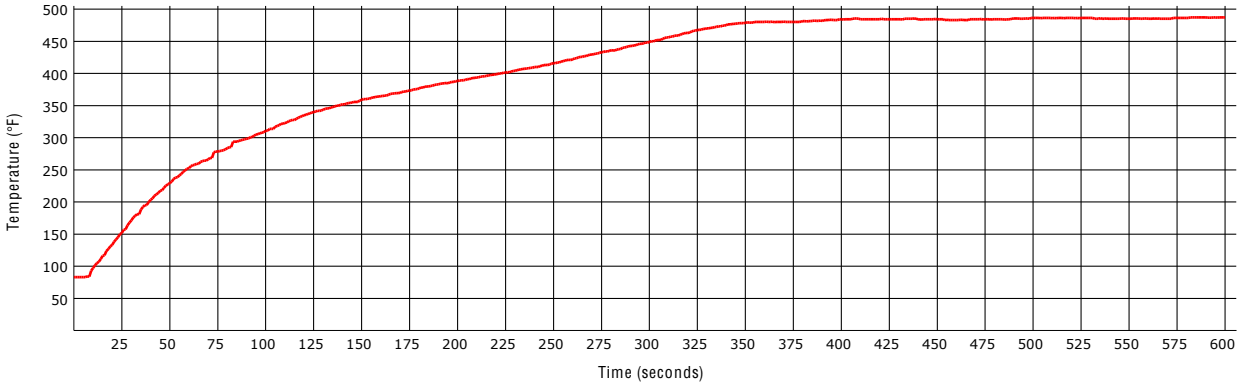
Test Method : ASTM E84  
Test Report # : 3-52281-0-Q



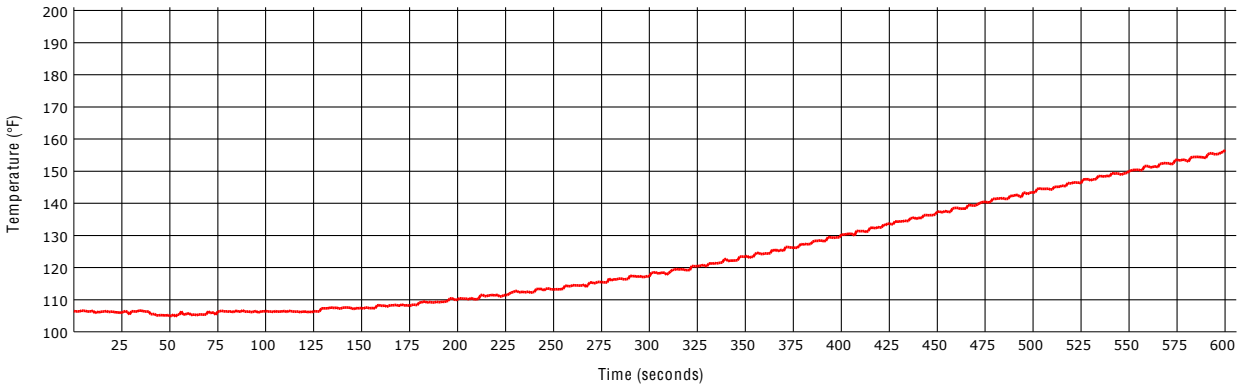


Test Method : ASTM E84  
Test Report # : 3-52281-0-Q

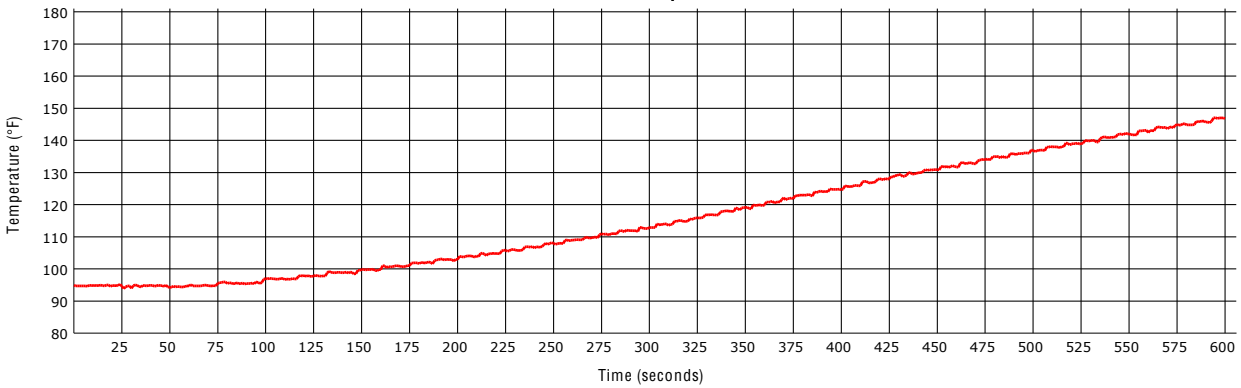
Exposed Thermocouple



13' Buried Thermocouple



23' Buried Thermocouple

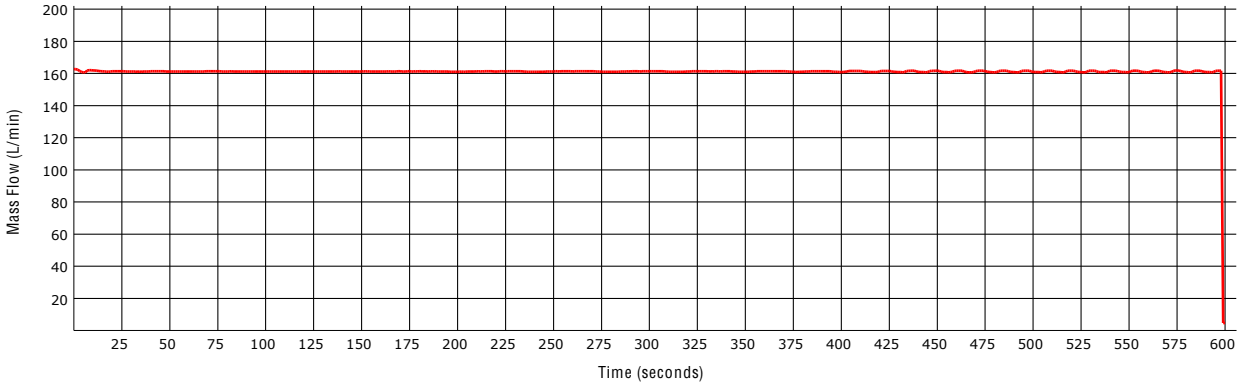




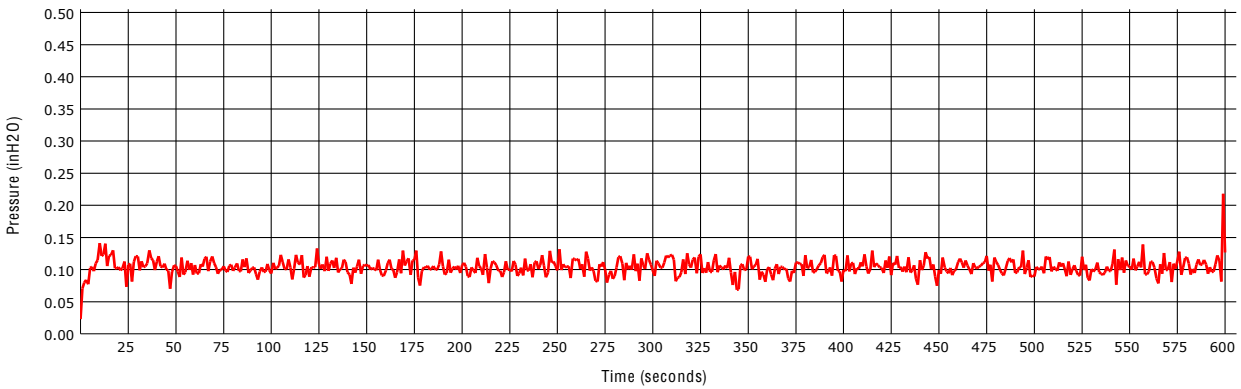


Test Method : ASTM E84  
Test Report # : 3-52281-0-Q

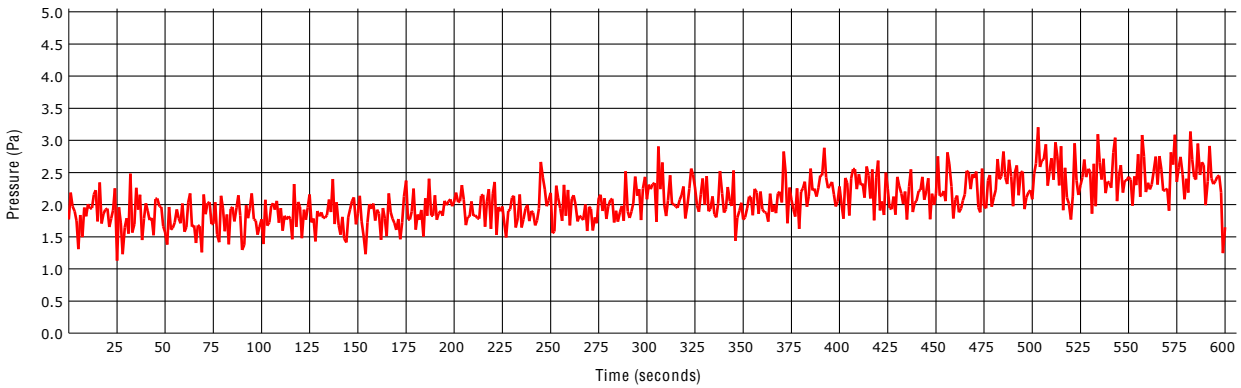
### Mass Flow Readback



### Inlet Pressure



### Exhaust Pressure





**Tested For:** Teesha Prezeau  
 Designtex  
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**Received:** 6/12/2023  
**Completed:** 6/13/2023  
**Code:** N  
**Test Report:** 3-51901-0

**Key Test:** CA TB 117-2013 (Section 1-Cover Fabric) /ACT

100

**Client's Identification:**

Style: Check 3054. Composition: 100% Polyester. Finish: None. Weight: 28 oz/Lin.yd. Product End Use: Upholstery.

Test Category: Cigarette Ignition    Product Category: Upholstery    Specifier: ACT    LE 2020; V 7/21 DK    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; V 1/19)

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 (December 2021)

REFERENCE: ASTM E1353-08ae1

IGNITION SOURCE: SRM 1196a Cigarette

**SPECIMEN TEST COMPOSITE:**

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

Standard Substrate Material: Non-FR polyurethane foam, density  $1.8 \pm 0.05$  lbs./ft<sup>2</sup>

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.

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**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 E1353 does recognize this phenomenon.

The SGS North America 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.

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## RESULTS:

	Specimen #	Char Length (inches)	SE (Yes/No)	SB45 (Yes/No)	TOF (Yes/No)
Initial	1	0.7	No	No	No
	2	0.6	No	No	No
	3	0.6	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"
- 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.

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#### 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

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...

6/14/2023

AUTHORIZED SIGNATURE  
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 /jab/gb

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