

CALIFORNIA TECHNICAL BULLETIN 117-2013 RESULTS

Product De	Product Description: Fortress			
Test	CA TB 117-2013(Section 1- Cover Fabric)	Test Date	Sept 9th , 2015	

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.)

REFERENCE: ASTM E1353-08ae1

IGNITION SOURCE: SRM 1196 Cigarette

SPECIMEN TEST COMPOSITE:

Upholstery Cover Material:	Fortress

Standard Substrate Material: Non FR polyurethane foam, density 1.8 \pm 0.1 lb/ft³

Foam type: C27180WTX Testfabrics, Inc.

BRIEF DESCRIPTION OF TEST: Miniature mock-ups that resemble a small chair seat and back are prepared using the upholstery cover material over 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.

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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:
 - The mock-up test specimen continues to smolder after the 45 minute test duration;
 - 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 specimen fails, repeat the test on 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 fails, the cover fabric fails the test.

RESULTS:

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

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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 = Cigarettes self-extinguished, see page 4 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

CONCLUSION:

The above results	reported for th	e initial and	/ or replacement	cigarettes a	re sufficient	to
indicate:				- 3		

X] Passing; [] Failure;	[] Repeat test on 3	additional specimens
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The results after conducting the repeat tests indicate:

[] Passing; [] Failure

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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.

This 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.

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

Sept 9th 2015

Date