

TEST REPORT No. : SDFTS25000383R02_EN Date: Jan 24,2025 Page: 1 of 10

LEWEI HOME TECHNOLOGY CO, LIMITED

RM 1201, 12/F TAI SANG BANK BLDG 130-132 DES VOEUX RD CENTRAL HONGKONG

Sample Description : MOC4-073
Buyer Item No. : MOC4-073
Supplier : KING'S CASTLE(HK) IMPORT & EXPORT CO., LIMITED
Manufacturer : WINGS ON FURNITURE INC
Buyer : LEWEI HOME TECHNOLOGY CO, LIMITED
Country of Destination : USA
Other Info : MOC4-072/ PROTOTYPE ID:MOC4-072

The above sample(s) data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

Sample Receiving Date : Jan 15,2025
Testing Period : Jan 15,2025 to Jan 24,2025
Test Required : 1. 16 CFR Part 1633-Standard for the flammability (open flame) of Mattress sets.
(Prototype Test)
2. 16 CFR Part 1632—Standard for the Flammability of Mattresses and Mattress Pads to Combustion Which May Result from A Smoldering Cigarette
Test result(s) : See attached sheet

Signed for and on behalf of
SGS-CSTC STANDARDS TECHNICAL SERVICES SHUNDE BRANCH



Daniel Guan
Approved signatory



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Sample Information

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Model Name : MOC4-073
 Prototype Identification : MOC4-073/ Prototype ID:MOC4-073
 Insulation : /
 Construction Type : /
 Foam Padding : /
 Barrier / Interliner : /
 Overall Size : 38.5"x74.5"x12"
 Mattress Ticking : /
 Foundation : Without Foundation

Test 1

Test Conducted:

16 CFR Part 1633 Standard for the flammability (open flame) of mattress set.

Conditioning

Prior to testing, the sample was conditioned at 65°F ~77°F and a relative humidity less 55% for at least 48 hours.

At time of testing: Temperature greater than 59 °F and less than 80.6 °F, and a relative humidity less than 75%.

Test Procedure and Results

PROCEDURE:

The mattress was placed on a metal test frame and catch surface under the center of an open hood. The open hood and open calorimeter test room were configured in accordance with open calorimeter layout Option A as specified in 16 CFR Part 1633.

The ignition source was the NIST Dual Burner System constructed of stainless steel tubing. The fuel used was commercial propane delivered at a rate of 12.9 l/min to the top burner for a total time of 70 seconds and a rate of 6.6 l/min to the side burner for a total time of 50 seconds.

After ignition of the burner, we monitored recorded certain properties of the test procedure. These properties are Heat Release Rate and Total heat release.

Photos and video were taken of the specimen during the procedure. Please reference PHOTOS 1 through 2 for photos of representative samples before and after testing to this standard. Sampling was monitored throughout the test at a rate of 1 second. Heat Release equipment meets and exceeds requirements by ASTM E1590 for accuracy.

The test was conducted by Leo Liao at the following address:

SGS-CSTC Standards Technical Services Co., Ltd Shunde Branch
 1st Floor, Building 1 of European Industrial Park, No.1 Shunhenan Road, Wusha Section, Daliang Town, Shunde of Foshan, Guangdong Province, China (CPSC Identification Number:1621)

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RESULTS:

Specimen 1:

Test Date: Jan 20,2025

Data:

<u>Measurement Type</u>	<u>Maximum Value</u>	<u>Time Occurred</u>	<u>Allowed Value</u>	<u>Pass / Fail</u>
Heat Release Rate (kW)	34.5	00:00:51	200	PASS
Total Heat Release – First 10 Min (MJ)	3.5	---	15.0	PASS
Total heat release (Entire Test, MJ)	5.3			
Test duration	[√] 30 minutes			
Please reference Figure 1 and 2 for graphical representation of Heat Release Rate and Total Heat Release.				

OBSERVATIONS:

- 12:00 – Specimen was removed from conditioning room.
- 12:05 – Test was started.
- 12:07 – After the ignition source extinguished, the specimen was ignited and flame was small and spread on the side and upper surface.
- 12:35 – Flame was extinguished by operator and the test was stopped.

GRAPHICAL RESULTS:

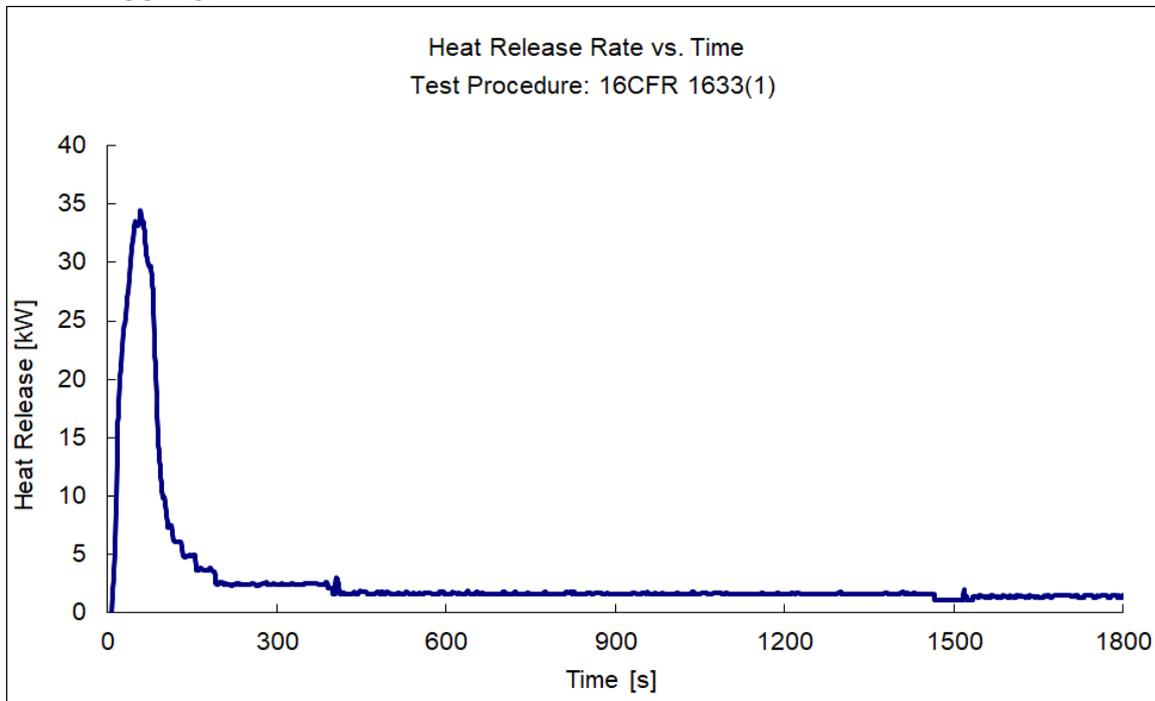


Figure 1. Heat Release Rate vs. Time Graph

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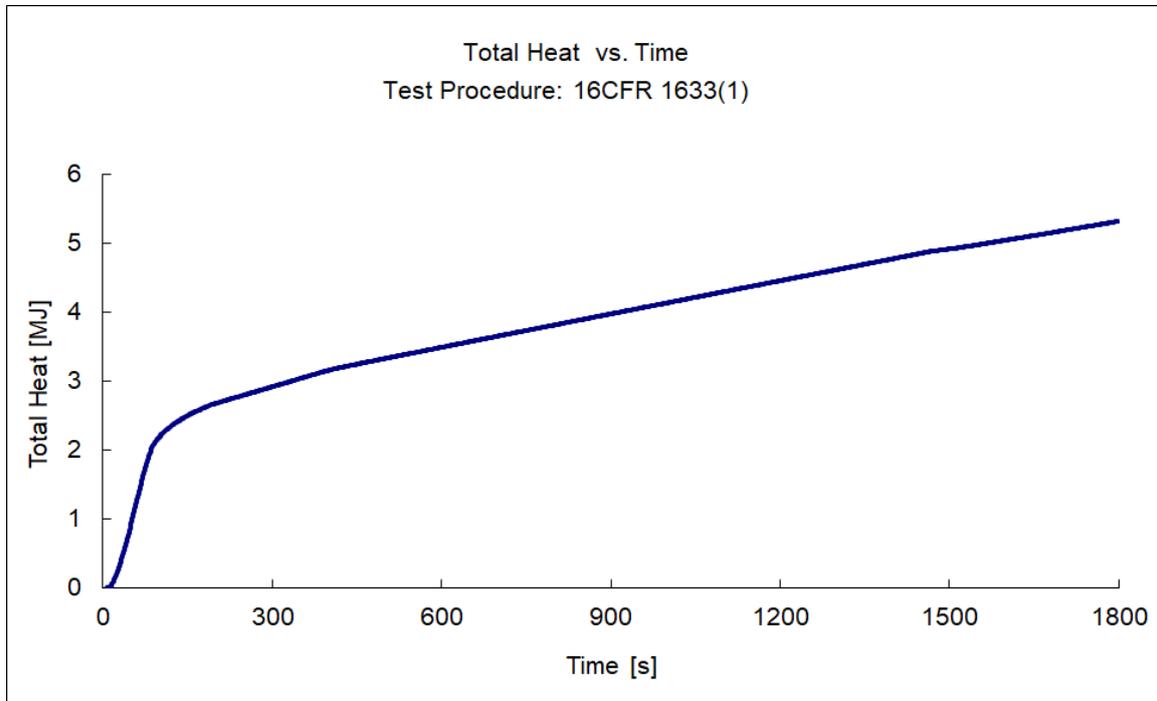


Figure 2. Total Heat Release vs. Time Graph

Specimen 2:
Test Date: Jan 20,2025
Data:

<u>Measurement Type</u>	<u>Maximum Value</u>	<u>Time Occurred</u>	<u>Allowed Value</u>	<u>Pass / Fail</u>
Heat Release Rate (kW)	36.4	00:00:50	200	PASS
Total Heat Release – First 10 Min (MJ)	3.7	---	15.0	PASS
Total heat release (Entire Test, MJ)	5.6			
Test duration	[√] 30 minutes			
Please reference Figure 3 and 4 for graphical representation of Heat Release Rate and Total Heat Release.				

OBSERVATIONS:

- 13:00 – Specimen was removed from conditioning room.
- 13:05 – Test was started.
- 13:07 – After the ignition source extinguished, the specimen was ignited and flame was small and spread on the side and upper surface.
- 13:35 – Flame was extinguished by operator and the test was stopped.



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GRAPHICAL RESULTS:

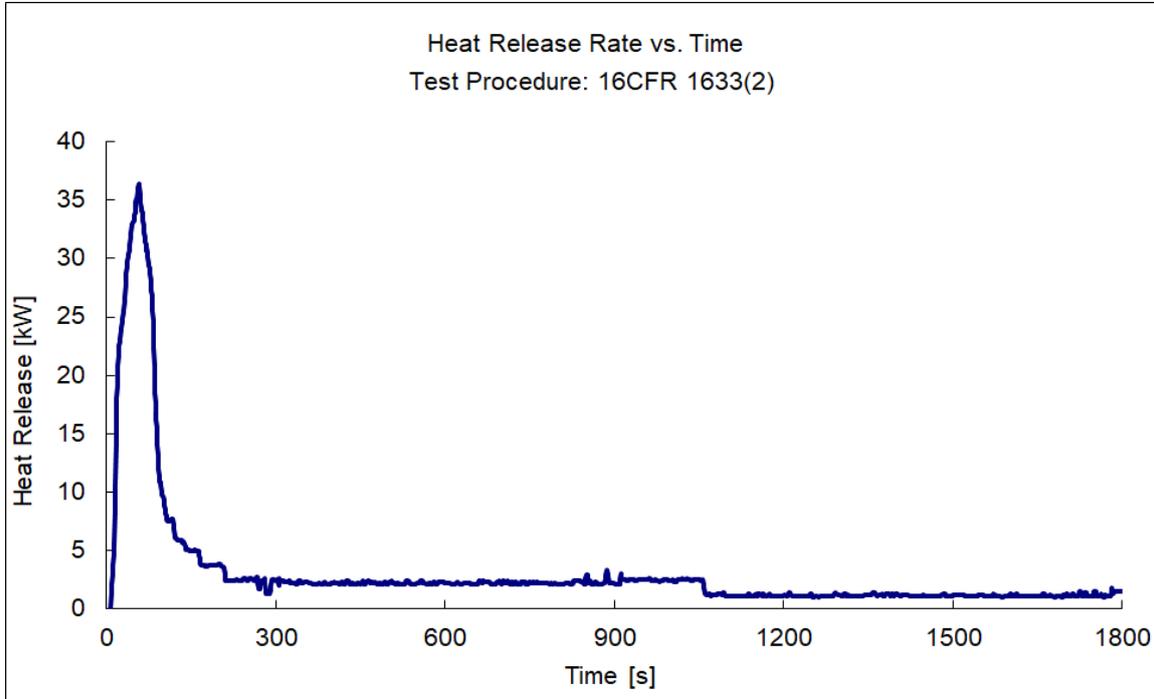


Figure 3. Heat Release Rate vs. Time Graph

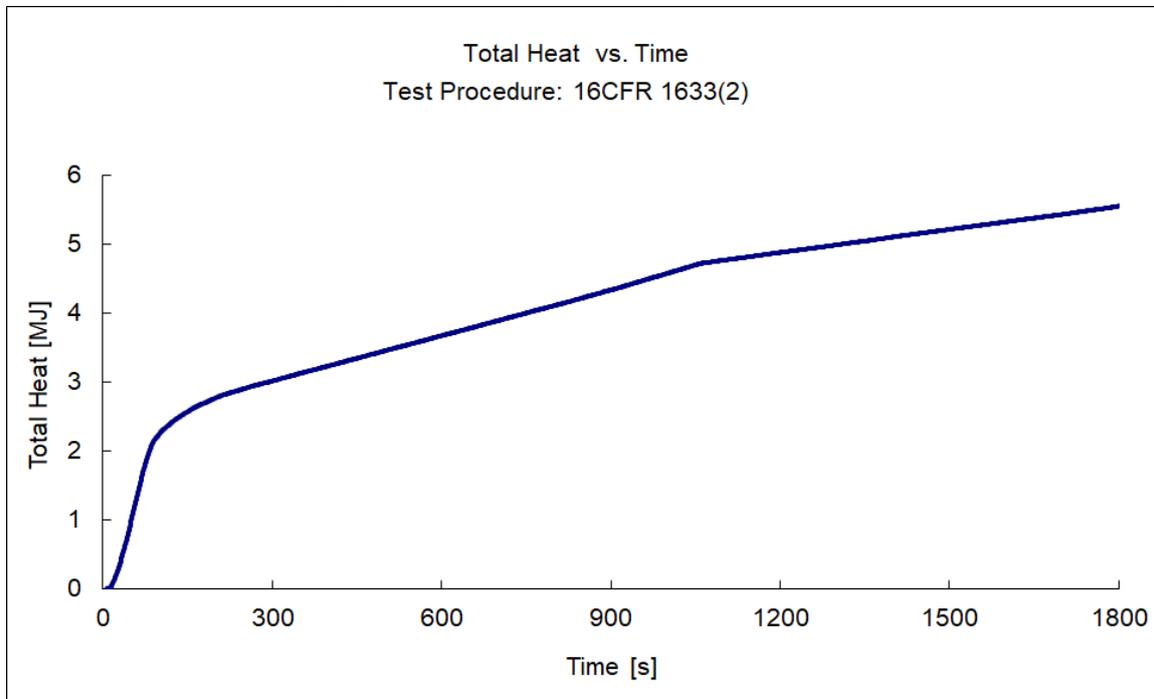


Figure 4. Total Heat Release vs. Time Graph



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Specimen 3:
Test Date: Jan 20,2025
Data:

<u>Measurement Type</u>	<u>Maximum Value</u>	<u>Time Occurred</u>	<u>Allowed Value</u>	<u>Pass / Fail</u>
Heat Release Rate (kW)	36.8	00:00:51	200	PASS
Total Heat Release – First 10 Min (MJ)	4.2	---	15.0	PASS
Total heat release (Entire Test, MJ)	7.7			
Test duration	[√] 30 minutes			
Please reference Figure 5 and 6 for graphical representation of Heat Release Rate and Total Heat Release.				

OBSERVATIONS:

- 14:00 – Specimen was removed from conditioning room.
- 14:05 – Test was started.
- 14:07 – After the ignition source extinguished, the specimen was ignited and flame was small and spread on the side and upper surface.
- 14:35 – Flame was extinguished by operator and the test was stopped.

GRAPHICAL RESULTS:

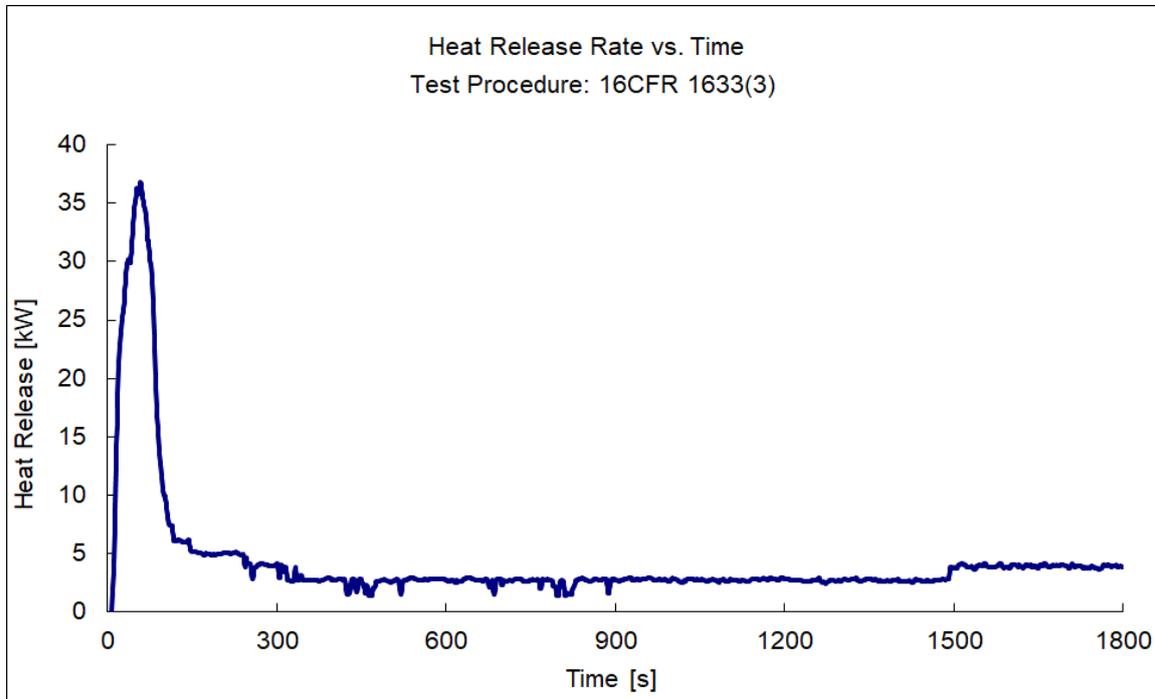


Figure 5. Heat Release Rate vs. Time Graph



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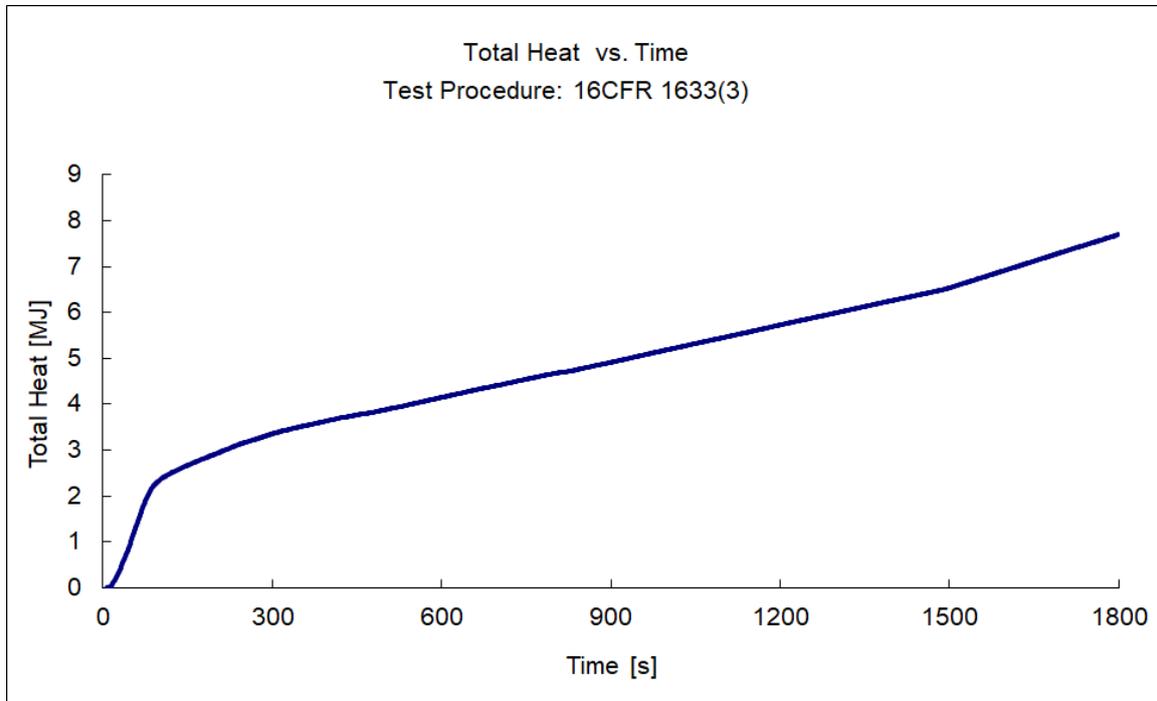


Figure 6. Total Heat Release vs. Time Graph



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PHOTOS:



PHOTO 1. Mattress Before Testing



PHOTO 2. Mattress After Testing

Remark: For testing details, please refer to the enclosed video.



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Test 2

Test Conducted:

16 CFR Part 1632—Standard for the Flammability of Mattresses and Mattress Pads to Combustion Which May Result from A Smoldering Cigarette

I. Test Condition

Condition		Requirement	Actual
Precondition	Temperature	≥65°F (18°C)	(74±3)°F (23±2)°C
	Relative humidity	≤55%	(50±5)%
	Duration	≥48h	48h
Test condition	Temperature	≥65°F (18°C)	(74±3)°F (23±2)°C
	Relative humidity	≤55%	(50±5)%

II. Requirements:

1. Individual cigarette requirement:

- a) No obvious flaming combustion occurs.
 - b) The char length shall not exceed 2 inches in any direction from the nearest point of the cigarette.
2. If one or more of the cigarette location fail to meet the requirement, the mattress or mattress pad fail the test.

III. Test Results:

Flammability of Mattresses 16 CFR Part 1632.4 (FF4-72, Amended)

Surface 1	Number of Cigarettes					No. of Relights
	1	2	3	4	5	
Bare						
Smooth	P	P	P	-	-	0
Tape Edge	P	P	P	-	-	0
Quilted	P	P	P	-	-	0
Tufted Area	-	-	-	-	-	-
Sheeted						
Smooth	P	P	P	-	-	0
Tape Edge	P	P	P	-	-	0
Quilted	P	P	P	-	-	0
Tufted Area	-	-	-	-	-	-
Surface 2	Number of Cigarettes					No. of Relights
Bare	1	2	3	4	5	
Smooth	P	P	P	-	-	0
Tape Edge	P	P	P	-	-	0
Quilted	P	P	P	-	-	0
Tufted Area	-	-	-	-	-	-
Sheeted						
Smooth	P	P	P	-	-	0
Tape Edge	P	P	P	-	-	0
Quilted	P	P	P	-	-	0
Tufted Area	-	-	-	-	-	-



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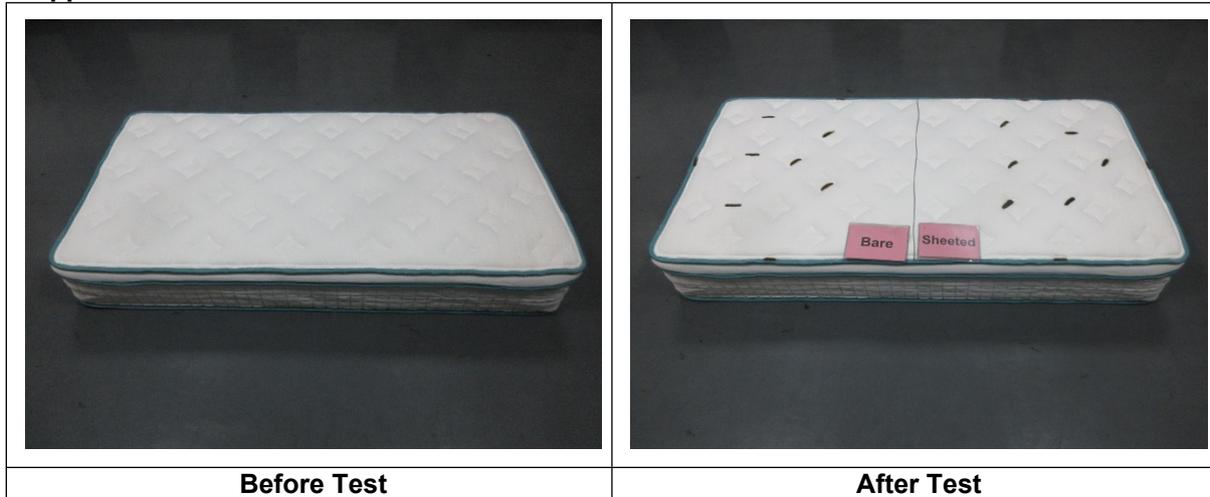
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Code Description:	
P:	Pass, Cigarette burned to full length
R:	Pass, Cigarette self-extinguished, replaced with a fresh cigarette which burned to full length or self-extinguished.
F:	Failure

Conclusion: PASS

Photo Appendix:



End of Report



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