

Test Report

No. SDFS2109005825FF

Date: Sep.30, 2021

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LIAN FENG BEDDING SDN BHD.

LOT 3345, JALAN KAPAR, BATU 7 3/4, KAPAR, SELANGOR DARUL EHSAN 42200 MALAYSIA

Sample Description : 10INCH POCKET SPRING MATTRESS
 Supplier Item No. : MS-YM10TW-USSS
 Manufacturer : LIAN FENG BEDDING SDN BHD
 Supplier : LIAN FENG BEDDING SDN BHD
 Country of Origin : MALAYSIA
 Country of Destination : US
 Other Info : MS-YM10FU-USSS / 137*190*27cm
 MS-YM10QU-USSS / 152*203*27cm
 MS-YM10KI-USSS / 193*203*27cm
 MS-YM10TWXL-USSS / 99*203*27cm

The above 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.

Sample Receiving Date : Sep.14, 2021
 Test Performing Date : Sep.14, 2021 to Sep.28, 2021

Test Result Summary

Test(s) Requested	Result(s)	Comments
16 CFR 1633-Standard for the flammability (open flame) of Mattress sets.	PASS	Prototype Test
For further details, please refer to the following page(s)		

Signed for and on behalf of
 Shunde Branch
 SGS-CSTC Co., Ltd.

Ada



Ada Liu
 Approved signatory



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Test Conducted:

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

Sample Information

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Model Name : MS-YM10TW-USSS
 Prototype Identification : MS-YM10
 Insulation : FR fiber
 Construction Type : Zero Pressure Foam and High-Density Foam
 Foam Padding : Polyurethane foam
 Barrier / Interliner : FR Sock
 Overall Size : (99*190*27)cm
 Mattress Ticking : Polyester
 Foundation : WITHOUT FOUNDATION

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 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.

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 E 1590 for accuracy.

The test was conducted by Donnie Huang 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: Sep.17, 2021

Data:

Measurement Type	Initial Value	Maximum Value	Time Occurred	Allowed Value	Pass / Fail
Heat Release Rate (kW)	0.0	30.7	00:00:36	200	PASS
Total Heat Release – First 10 Min (MJ)	0.0	3.2	---	15.0	PASS

Total Test Time (hr:min:sec): 0:30:00

Please reference Figure 1 and 2 for graphical representation of the 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.

GRAPHICAL RESULTS:

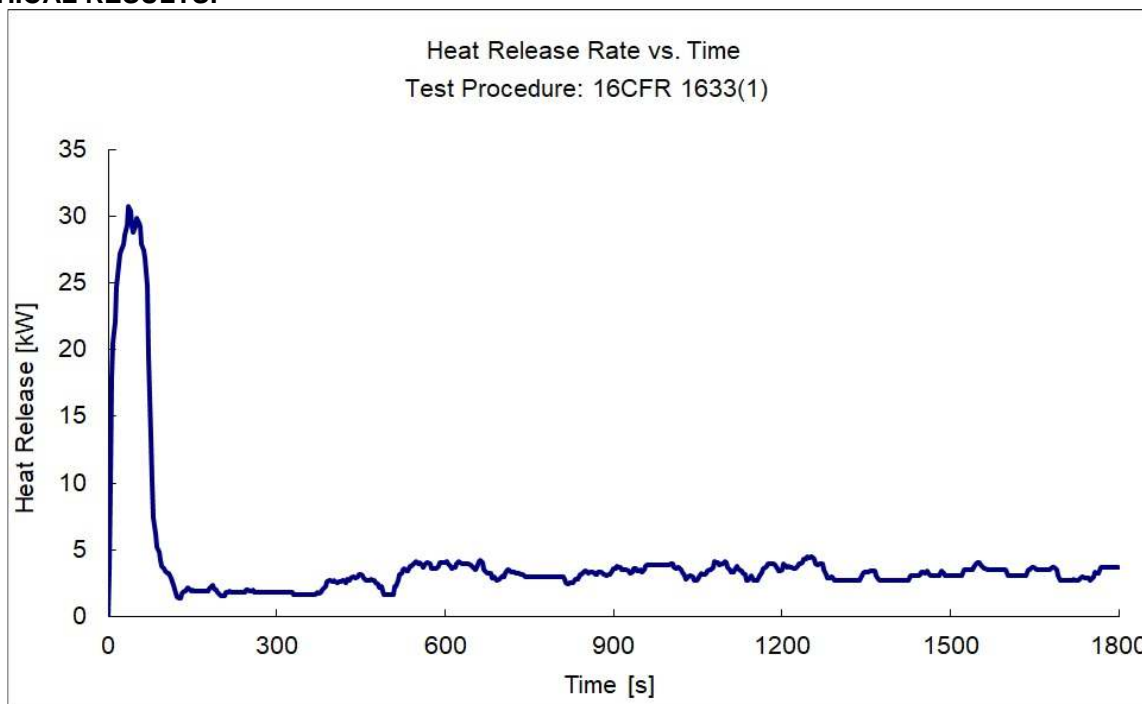


Figure 1. Heat Release Rate vs. Time Graph



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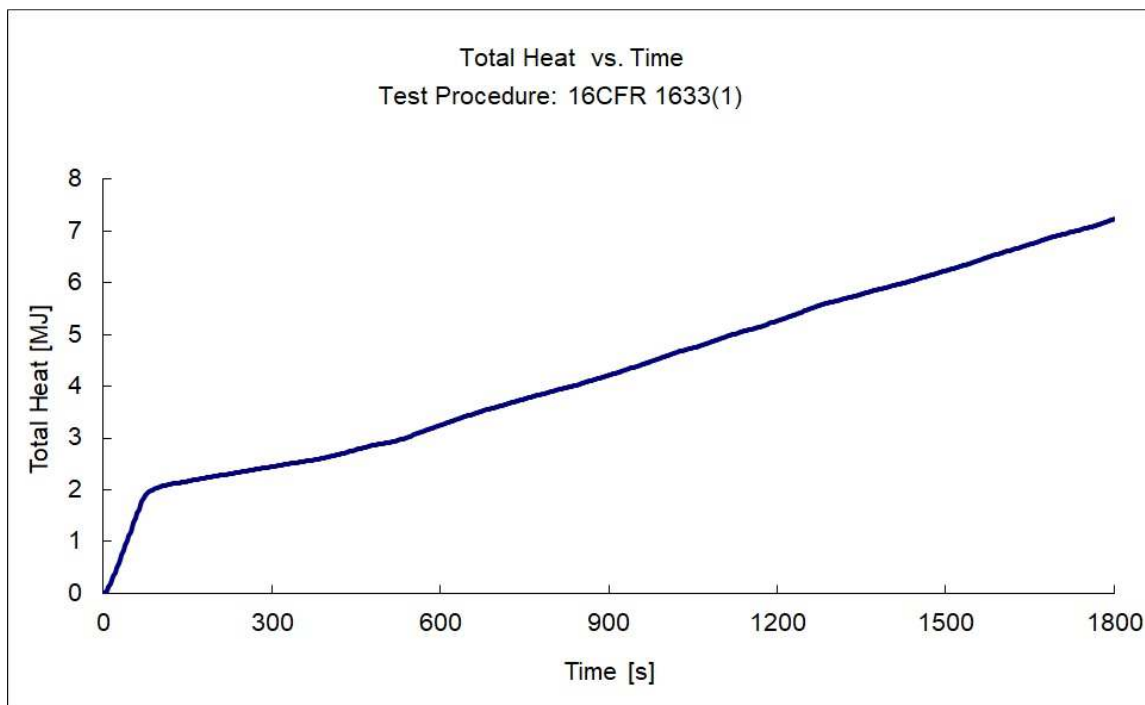


Figure 2. Total Heat Release vs. Time Graph

Specimen 2:

Test Date: Sep.17, 2021

Data:

Measurement Type	Initial Value	Maximum Value	Time Occurred	Allowed Value	Pass / Fail
Heat Release Rate (kW)	0.0	32.0	00:00:42	200	PASS
Total Heat Release – First 10 Min (MJ)	0.0	3.2	---	15.0	PASS

Total Test Time (hr:min:sec): 0:30:00

Please reference Figure 3 and 4 for graphical representation of the 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.



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GRAPHICAL RESULTS:

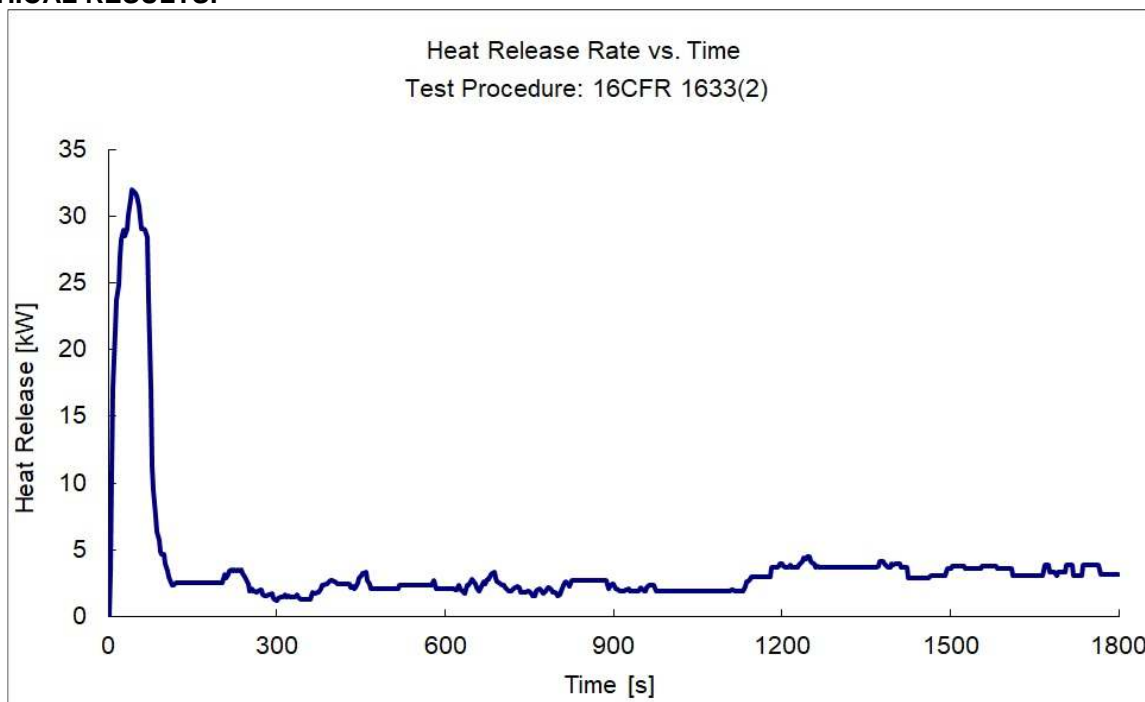


Figure 3. Heat Release Rate vs. Time Graph

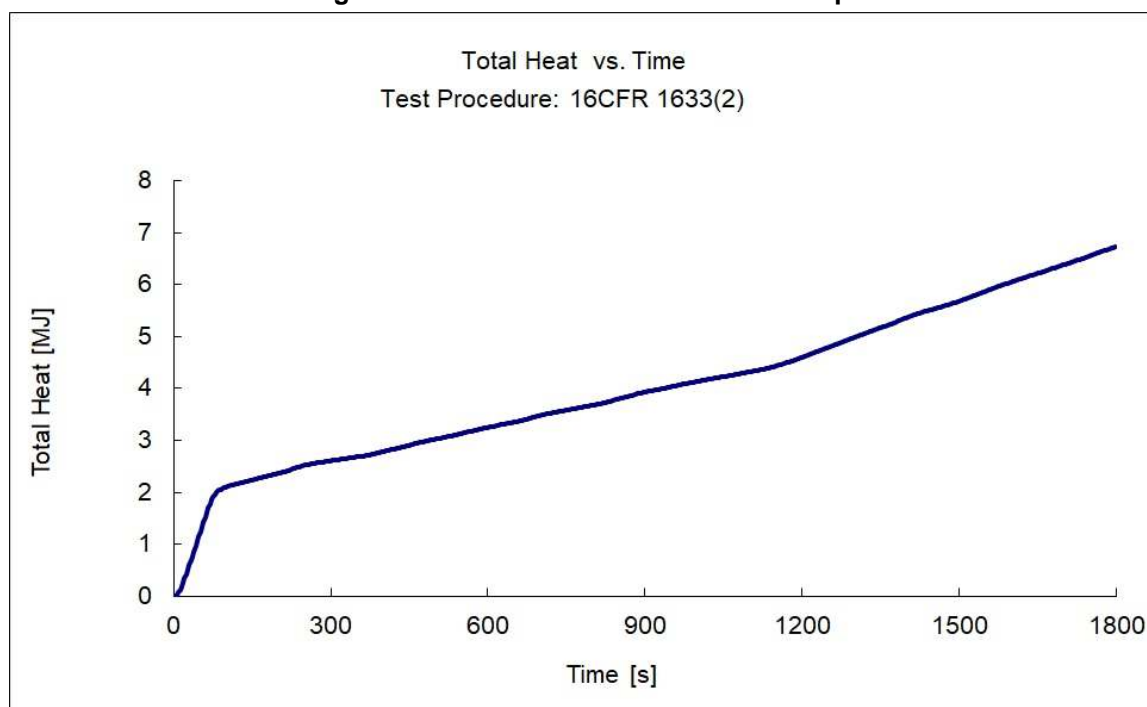


Figure 4. Total Heat Release vs. Time Graph



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Specimen 3:

Test Date: Sep.17, 2021

Data:

Measurement Type	Initial Value	Maximum Value	Time Occurred	Allowed Value	Pass / Fail
Heat Release Rate (kW)	0.0	29.5	00:00:51	200	PASS
Total Heat Release – First 10 Min (MJ)	0.0	3.3	---	15.0	PASS

Total Test Time (hr:min:sec): 0:30:00

Please reference Figure 5 and 6 for graphical representation of the Heat Release Rate and Total Heat Release.

OBSERVATIONS:

- 15:00 – Specimen was removed from conditioning room.
- 15:05 – Test was started.
- 15:07 – After the ignition source extinguished, the specimen was ignited and flame was small and spread on the side and upper surface.
- 15:35 – Flame was extinguished by operator and the test was stopped.

GRAPHICAL RESULTS:

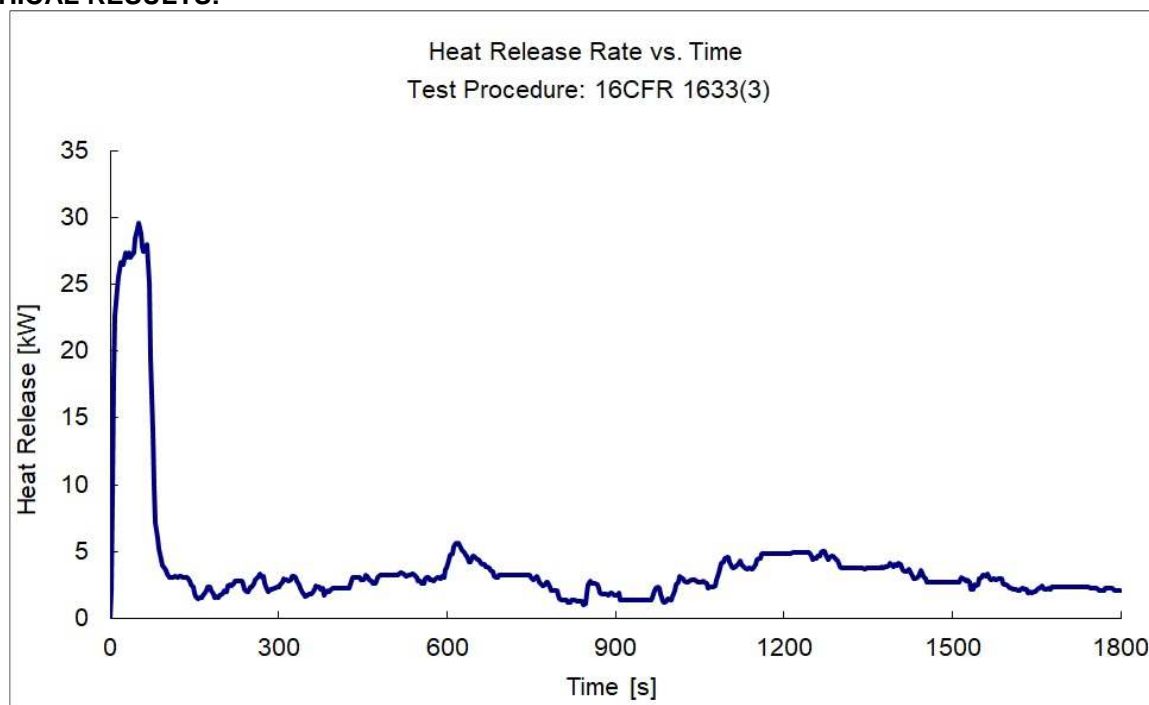


Figure 5. Heat Release Rate vs. Time Graph



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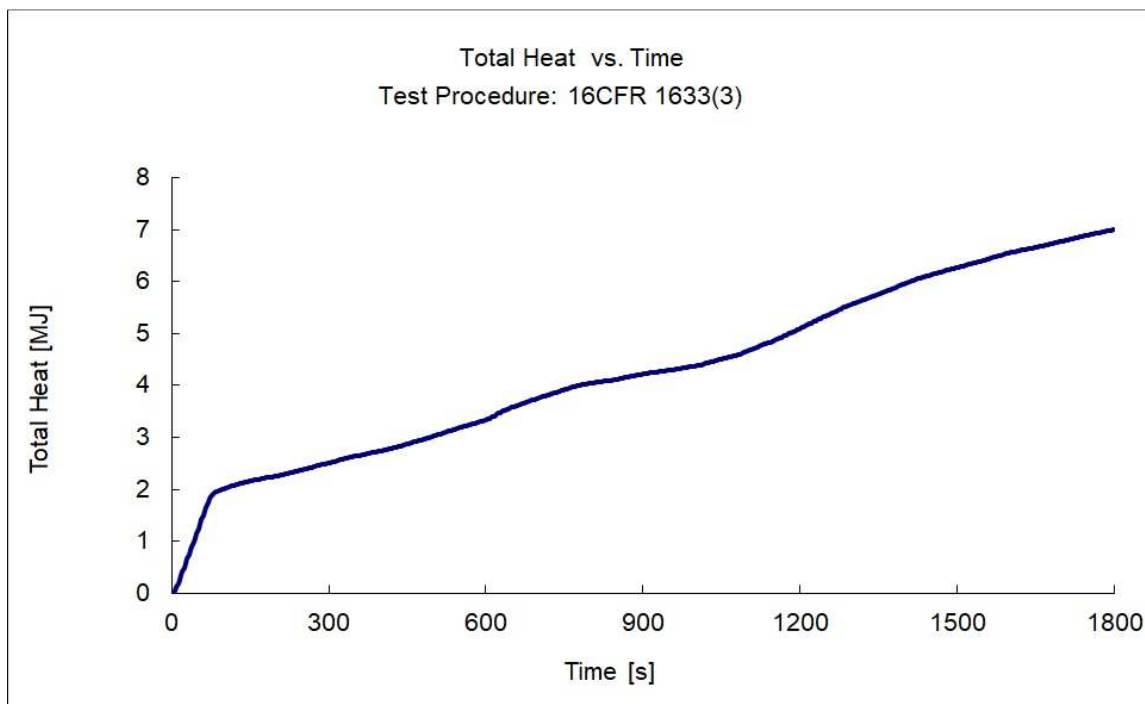


Figure 6. Total Heat Release vs. Time Graph



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PHOTOS:



PHOTO 1. Mattress Before Test



PHOTO 2. Mattress After Test

Remark:

- 1.For testing details, please refer to the enclosed video.
- 2.According to client's statements, the tested supplier item No. MS-YM10TW-USSS is identical to supplier item No. in other info as stated on the first page.
- 3.According to client's statements, the tested overall size (99*190*27)cm is identical to overall size in other info as stated on the first page.

End of Report



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