



Tested For: Michael Haltiwanger BRN Sleep Products USA, LLC. 3771 Cameron Road Orangeburg, SC 29115 USA	Phone: (803) 413-8418 Fax: Mobile: PO#: Email: michael.haltiwanger@brnbed.com	Received: 9/12/2022 Completed: 9/26/2022 Code: R Test Report: 3-48963-0
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Key Test: CFR 16 Part 1633 3 Sets

990

Client's Identification:

Style: Go Sleep - 6 inch. Identification #: INSBC. (see continuation)

Category: Mattress set, open flame test (CPSC) LE 2019; V 7/21 DK PC: 48H CODE: 330/660/990 bb

TEST PERFORMED: CFR Title 16 Part 1633 - Standard for the Flammability (Open Flame) of Mattress Sets

CLIENT'S IDENTIFICATION (Continuation):

MattresType: Smooth; Tufted; Quilted; Other: _____

Specimen Composite:

Covering Material (Ticking): INSBC

Fire Blocking Layer (Interliner): INSBC

Filling Material(s): INSBC

Insulator Pad: INSBC

Core: Bonnell Coil

Additional Information: Zippered Outer

Foundation: Not supplied; Supplied

Identification #: _____

Specimen Composite:

Covering Material (Ticking): _____

Fire Blocking Layer (Interliner): _____

Other Material(s): _____

INSBC = Information not supplied by client

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TEST CATEGORY REQUESTED:

- Qualified Prototype (3 mattress sets)
- Confirming Prototype (1 mattress set)
- Production Quality Assurance (1 mattress set)
- Experimental
- Subordinate Prototype (1 mattress set):
 - Ticking Substitution
 - Other Component Substitution (explain): _____
 - Manufacturer Specification Change (explain): _____
- Objective Data Prototype (explain): _____

Note: As defined by CFR Title 16 Part 1633, a "mattress set" can either be a mattress without a foundation or a mattress with a foundation. The sale of mattresses tested without foundations might be limited to that configuration.

TEST ROOM (CONFIGURATION):

Dimensions: 10 ft. x 12 ft. x 8 ft. high

Conditions:

Temperature (°F):

(Specified: >59 °F and <80.6 °F)

Set #1

73

Set #2

74

Set #3

75

Humidity (% RH):

(Specified <75% RH)

58

57

55

Time lag between conditioning room and test start (minutes):

(Specified: 20 min max)

7

7

8

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USA	Email: michael.haltiwanger@brnbed.com	

Key Test: CFR 16 Part 1633 3 Sets

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BRIEF DESCRIPTION OF TEST: A mattress set is placed on a support system. Flames from a multi-hole propane burner impinge on the side of the mattress set for a period of 50 seconds, and flames from a second multi-hole burner impinge on the top of the mattress set for a period of 70 seconds. The recording instrumentation in the exhaust duct evaluates the combustion product and a formula calculates the highest heat release value recorded during the test period. It also records the total heat released during the entire test. The test continues until failure occurs or 30 minutes have elapsed.

TEST CATEGORIES:

Qualified Prototype:

Three mattress sets must demonstrate compliance with the Acceptance Criteria.

Confirmed Prototype:

One mattress set must demonstrate compliance with the Acceptance Criteria, and the manufacturing specifications (construction and components) of the mattress set must be the same as the manufacturing specifications for an existing Qualified Prototype mattress set.

Subordinate Prototype:

A mattress set that is based on a Qualified Prototype or Confirmed Prototype. There is no requirement for a Subordinate Prototype to be tested. This test exemption is qualified by section 1633.4, which comments upon the use of different tickings; different components; different materials; different designs; or different methods of assembly. The qualification to permit these changes states that a reasonable basis should be offered to indicate that such changes would not cause the test criteria to be exceeded. Therefore, it is assumed that a test conducted on one set of a Subordinate Prototype would support the reasonable basis theory.

Production Quality Control:

This test is an ongoing quality control test to determine if one or more actual production mattress sets conform to the Qualified Prototype.

Experimental:

Experimental mattress set to evaluate manufacturing specifications.

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RESULTS:

Categories		Set #1	Set #2	Set #3
Rate of Heat Release	Peak (kW):	37.7	36.5	34.0
	Time Peak Rate occurred (seconds):	50	55	52
	Total Heat Release (MJ) at 10 minutes [or test end, if sooner than 10 minutes]:	4.4	5.3	3.2
Test End	Time (mm:ss):	30:00	30:00	30:00
	Code:	(2)	(2)	(2)

CODES EXPLAINED:

- (1) Extinguished by technician when maximum criteria values were exceeded.
- (2) Maximum test period (30 minutes).
- (3) All combustion ceased – Thermal Imaging Camera used.

ABBREVIATIONS WHICH MAY BE USED:

NT = Not tested, as noncompliance was found with a previous set
NA = Not available
NR = Not required to be tested

ACCEPTANCE CRITERIA: For each mattress set --

Peak Rate of Heat Release	Total Heat Release at 10 minutes
200 kW maximum	15 MJ maximum

CONCLUSION: Based on the reported Results and cited Acceptance Criteria:

3 Mattress set/s demonstrate/s COMPLIANCE with the Acceptance Criteria
0 Mattress set/s demonstrate/s NONCOMPLIANCE with the Acceptance Criteria

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REMARKS: None.

OBSERVATIONS (all observations are stated in relationship to flame impingement point):

Set #	Time (mm:ss)	Observations
1	00:06	Cover material ignited
	01:10	Burner removed; smoke from top of mattress
	05:00	Small fire on top and front of mattress
	10:00	Flame size decreasing; as fire is only burning on top of mattress
	15:00	Very small pockets of fire on top of mattress
	20:00	Very small pockets of fire continue to burn on top of mattress
	25:00	One very small pocket of fire remains on top of mattress
	30:00	End of test
2	00:06	Cover material ignited
	01:10	Burner removed; smoke from top of mattress
	05:00	Small fire on top and front of mattress with light smoke conditions
	10:00	Small fire burning on top of mattress only
	15:00	Flame size starting to decrease on top of mattress
	20:00	Very small fire continues to burn and spread towards rear on top of mattress
	25:00	Very small fire continuously spreading towards rear on top of mattress
	30:00	End of test
3	00:06	Cover material ignited
	01:10	Burner removed; smoke from top of mattress
	05:00	Very small fire on top and front of mattress with very light smoke conditions
	10:00	Small fire burning on top of mattress only
	15:00	Small fire continues to burn on top of mattress; spreading outward
	20:00	Small fire on top moving toward left/rear corner
	25:00	Very small fire remains on top of mattress with very light smoke conditions
	30:00	End of test

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

DocuSigned by:

Theresa MacMillan

28F70AF28D7845C...

10/3/2022

Test Technician: Vincent Timmons

AUTHORIZED SIGNATURE
SGS NORTH AMERICA
/jab /dv

DS
TM

Enclosures: Graph (Rate of Heat Release vs. Time)
Summary
Videos (see below links)

Test #1: <https://vimeo.com/754019279>Test #2: <https://vimeo.com/754025367>Test #3: <https://vimeo.com/754035126>

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Program: Main Fireroom Application (Version 1.1.6.0)

Test Method : CFR 1633
 Report # : 3-48963-0
 Client : BRN SLEEP PRODUCTS USA LLC
 Mattress ID # : 6" GO SLEEP
 Test Date : 9/26/2022
 Test Time : 3:39 PM
 Operator : Vinny Timmons

Results

Specimen	1	2	3
Initial Room Temperature (°F)	73	74	75
Initial Room Humidity (%)	58	57	55
Peak Rate of Heat Release (kW)	37.7	36.5	34.0
Peak RHR Time (s)	50	55	52
Total Heat Release at 10 minutes (MJ)	4.4	5.3	3.2
Peak RHR exceeds 200 kW	No	No	No
Total HR at 10 min exceeds 15 MJ	No	No	No
Test terminated early by operator	No	No	No

Conclusion : Based on the above results:

Passes Fails

CERTIFICATION : I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by 16 CFR 1633

Vinny Timmons

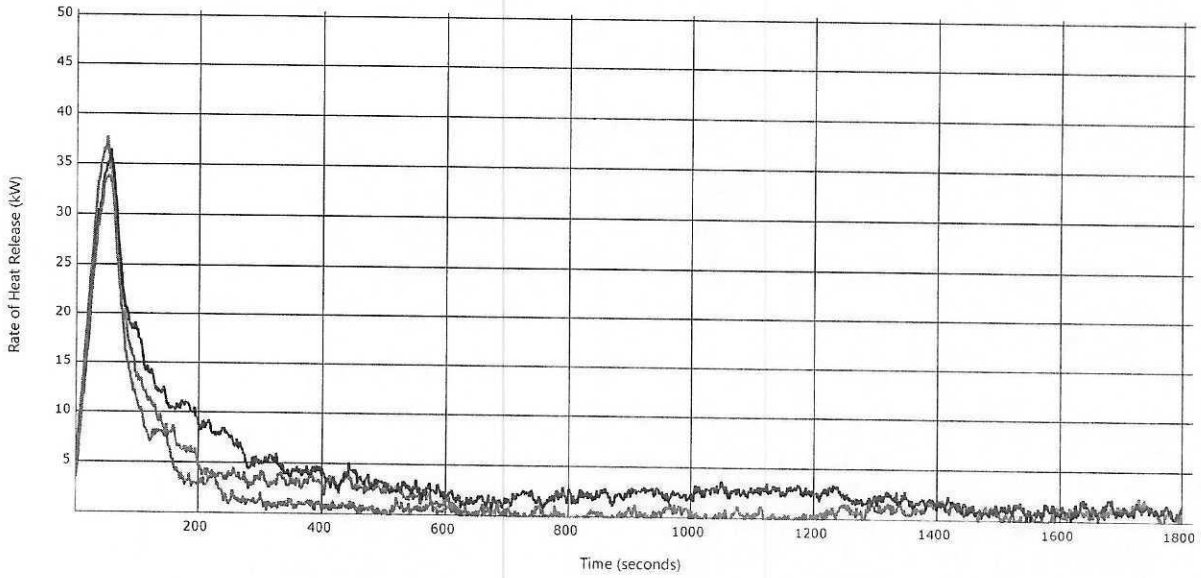
AUTHORIZED SIGNATURE



Program: Main Fireroom Application (Version 1.1.6.0)

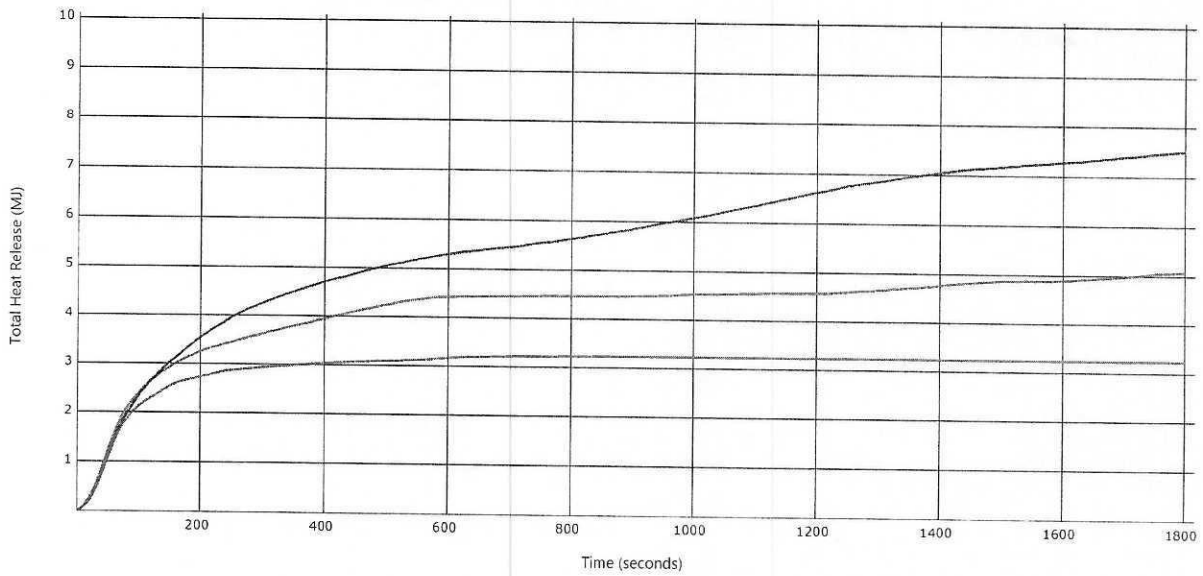
Test Method : CFR 1633
Test Report # : 3-48963-0

Rate of Heat Release vs Time



— Specimen 1 — Specimen 2 — Specimen 3

Total Heat Release vs Time



— Specimen 1 — Specimen 2 — Specimen 3