

Tested For: Mr. Onur Gumus
BRN Sleep Products LLC.
3771 Cameron Road
Orangeburg, SC 29115
USA

Phone:
Fax:
Mobile:
PO#:
Email: ogumus@brnbed.com

Received: 6/22/2021
Completed: 6/28/2021
Code: N
Test Report: 3-44249-0

Key Test: CFR 16 Part 1633 3 Sets

930

Client's Identification:

Style: DC-TG-ZP. Identification #: Dream Cloud 14" Tight Top-DC14TG-Zipped. (see continuation)

Category: Mattress set, open flame test (CPSC) LE 2018; V 03/20 PC: 48H CODE: 310/620/930 bb

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

CLIENT'S IDENTIFICATION (Continuation):

Mattress:

Type: Smooth; Tufted; Quilted; Other: _____

Specimen Composite:

Covering Material (Ticking): Knitted Fabric

Fire Blocking Layer (Interliner): Inherent FR Fiber

Filling Material(s): Foam

Insulator Pad: PK Felt

Core: Pocket Coil

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

<u>Conditions:</u>	<u>Set #1</u>	<u>Set #2</u>	<u>Set #3</u>
Temperature (°F): (Specified: >59 °F and <80.6 °F)	78	74	74
Humidity (% RH): (Specified <75% RH)	58	58	56
Time lag between conditioning room and test start (minutes): (Specified: 20 min max)	10	8	8

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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):	33.4	31.9	30.1
	Time Peak Rate occurred (seconds):	59	51	61
	Total Heat Release (MJ) at 10 minutes [or test end, if sooner than 10 minutes]:	6.3	5.9	5.1
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).

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 200 kW maximum	Total Heat Release at 10 minutes 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):

<u>Set #</u>	<u>Time (mm:ss)</u>	<u>Observations</u>
1	00:07	Cover material ignited
	01:10	Burner removed; fire burning on top and front side of mattress
	05:00	Light fire on top of mattress; moderate smoke pushing from underneath mattress
	10:00	Fire burning on top and underside of mattress
	15:00	Moderate smoke coming from mattress
	20:00	Light fire continues to burn on top and underside of mattress
	25:00	Light smoke coming from mattress
	30:00	End of test
2	00:07	Cover material ignited
	01:10	Burner removed; fire burning on top and front side of mattress
	05:00	Light fire burning on top of mattress
	10:00	Moderate smoke coming from mattress
	15:00	Light fire continues to burn on top of mattress
	20:00	Moderate fire coming from back side of mattress
	25:00	Moderate smoke coming from mattress; fire along the back side
	30:00	End of test
3	00:07	Cover material ignited
	01:10	Burner removed; fire burning on top and front side of mattress
	05:00	Light fire on top and underneath mattress
	10:00	Moderate smoke coming from the mattress
	15:00	Light fire on top of mattress
	20:00	Light smoke coming from mattress
	25:00	Tiny fires on top of mattress
	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.

AUTHORIZED SIGNATURE
SGS NORTH AMERICA
/jab /al

Test Technician: Vincent Timmons

Enclosures: Graph (Rate of Heat Release vs. Time)
Summary
Video

JUN 30 2021

Bobby Brown

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Program: (Version 0.4.0)

Test Specification : CFR 1633
Report # : 3-44249-0-
Client : BRN SLEEP PRODUCTS LLC
Mattress ID # : DC-TG-ZP DREAM CLOUD 14" TIGHT TOP DC14TG-ZIPPED
Test Date : 6/28/2021
Test Time : 12:11 PM
Operator : Vinny Timmons

Initial Room Conditions

Temperature : 78 °F
Humidity : 58 %

Results

Peak Rate of Heat Release : 33.4 kW Peak Time : 59 seconds
Total Heat Release at 10 minutes : 6.3 MJ

Failure Criteria

- Peak rate of heat release exceeds 200 kW
- Total heat release at 10 minutes exceeds 15MJ
- Test terminated early by operator

Conclusion : Based on the above results, the item tested:

- 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

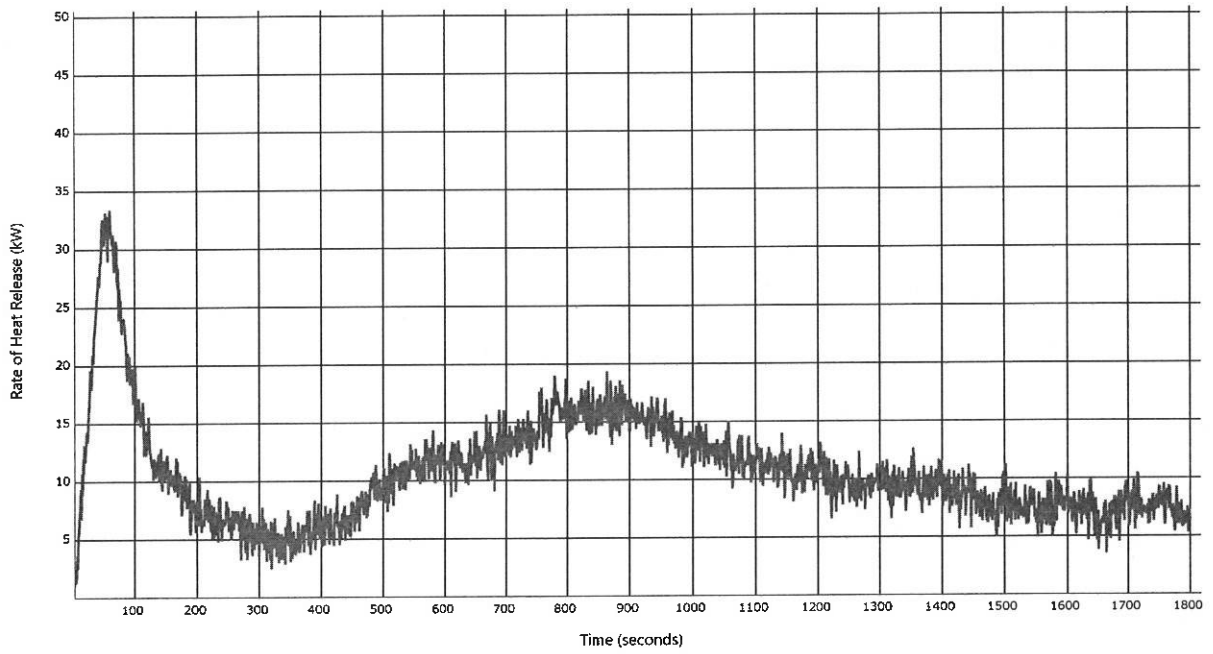
AUTHORIZED SIGNATURE



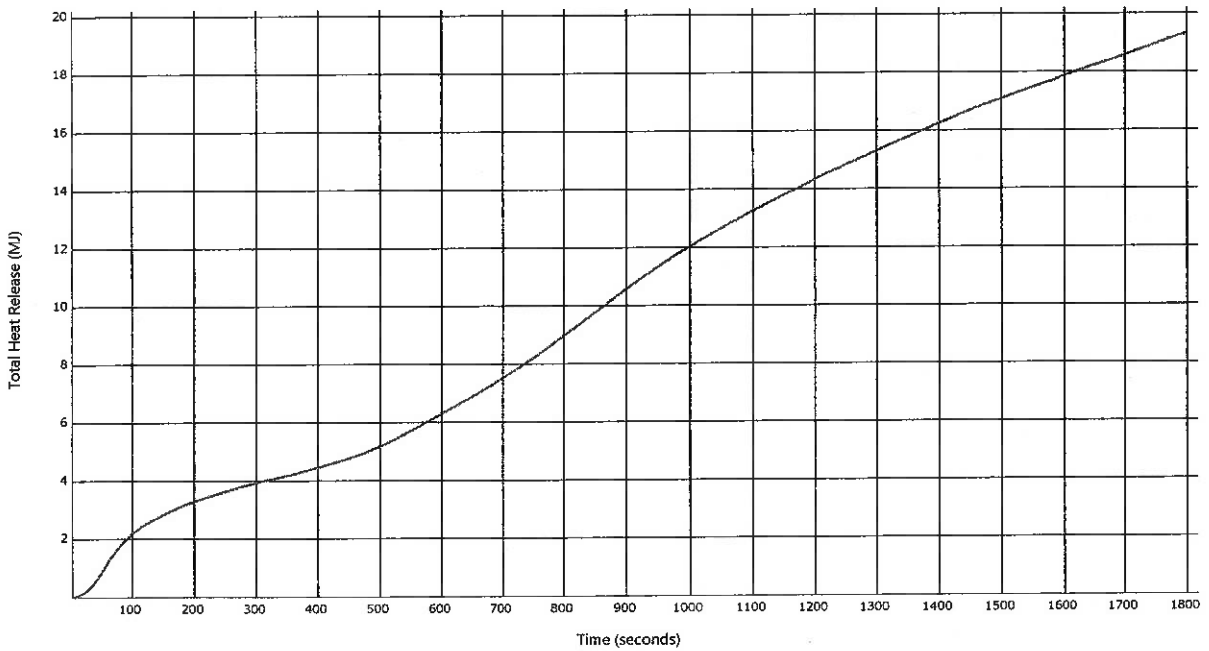
Test Method
Test Report #

: CFR 1633
: 3-44249-0-

Rate of Heat Release vs Time



Total Heat Release vs Time





Test Specification : CFR 1633
Report # : 3-44249-0--
Client : BRN HOME PRODUCTS
Mattress ID # : DC-TG-ZP DREAM CLOUD 14" TIGHT TOP DC14TG-ZIPPED
Test Date : 6/28/2021
Test Time : 1:57 PM
Operator : Vinny Timmons

Initial Room Conditions

Temperature : 74 °F
Humidity : 58 %

Results

Peak Rate of Heat Release : 31.9 kW Peak Time : 51 seconds
Total Heat Release at 10 minutes : 5.9 MJ

Failure Criteria

- Peak rate of heat release exceeds 200 kW
- Total heat release at 10 minutes exceeds 15MJ
- Test terminated early by operator

Conclusion : Based on the above results, the item tested:

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



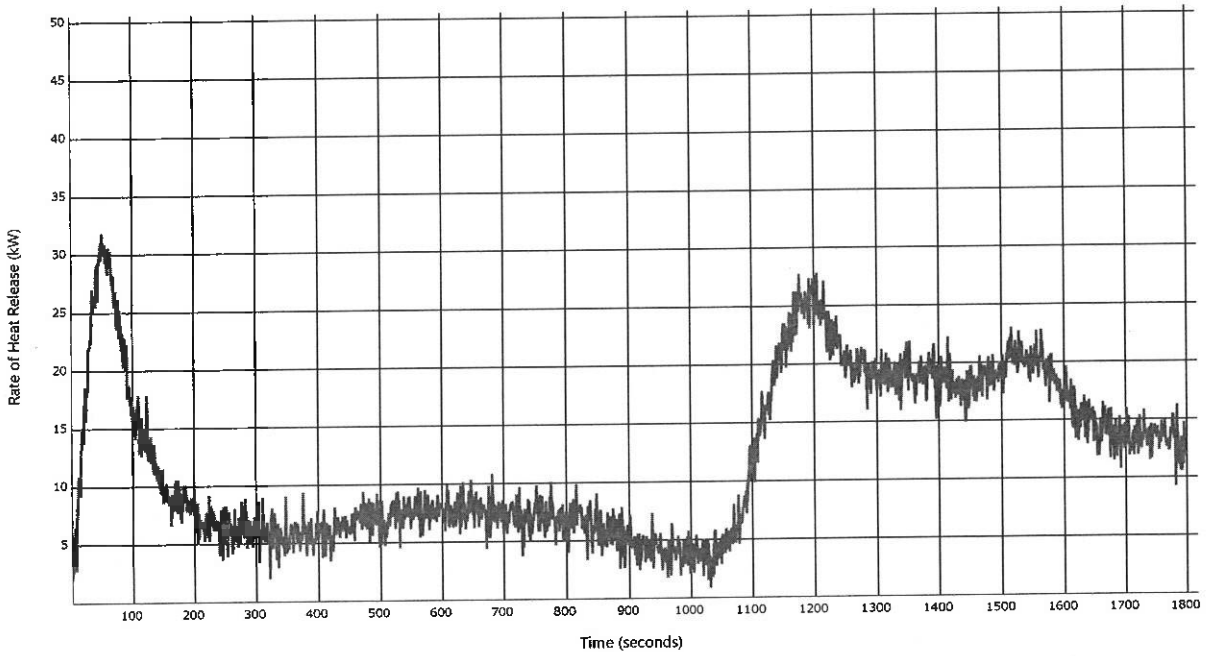
Test # 2

Program: (Version 0.4.0)

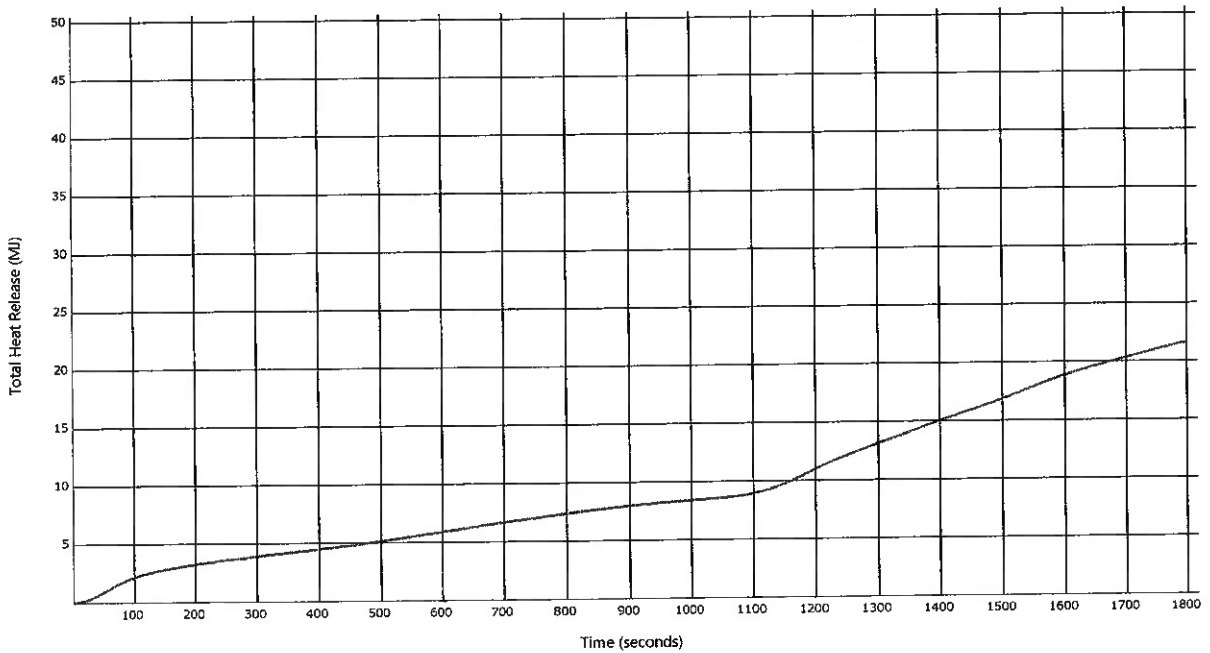
Test Method
Test Report #

: CFR 1633
: 3-44249-0--

Rate of Heat Release vs Time



Total Heat Release vs Time



Test # 3



Program: (Version 0.4.0)

Test Specification : CFR 1633
Report # : 3-44249-0---
Client : DOREL HOME PRODUCTS LLC
Mattress ID # : DC-TG-ZP DREAM CLOUD 14" TIGHT TOP DC14TG-ZIPPED
Test Date : 6/28/2021
Test Time : 2:32 PM
Operator : Vinny Timmons

Initial Room Conditions

Temperature : 74 °F
Humidity : 56 %

Results

Peak Rate of Heat Release : 30.1 kW Peak Time : 61 seconds
Total Heat Release at 10 minutes : 5.1 MJ

Failure Criteria

- Peak rate of heat release exceeds 200 kW
- Total heat release at 10 minutes exceeds 15MJ
- Test terminated early by operator

Conclusion : Based on the above results, the item tested:

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

Test # 3

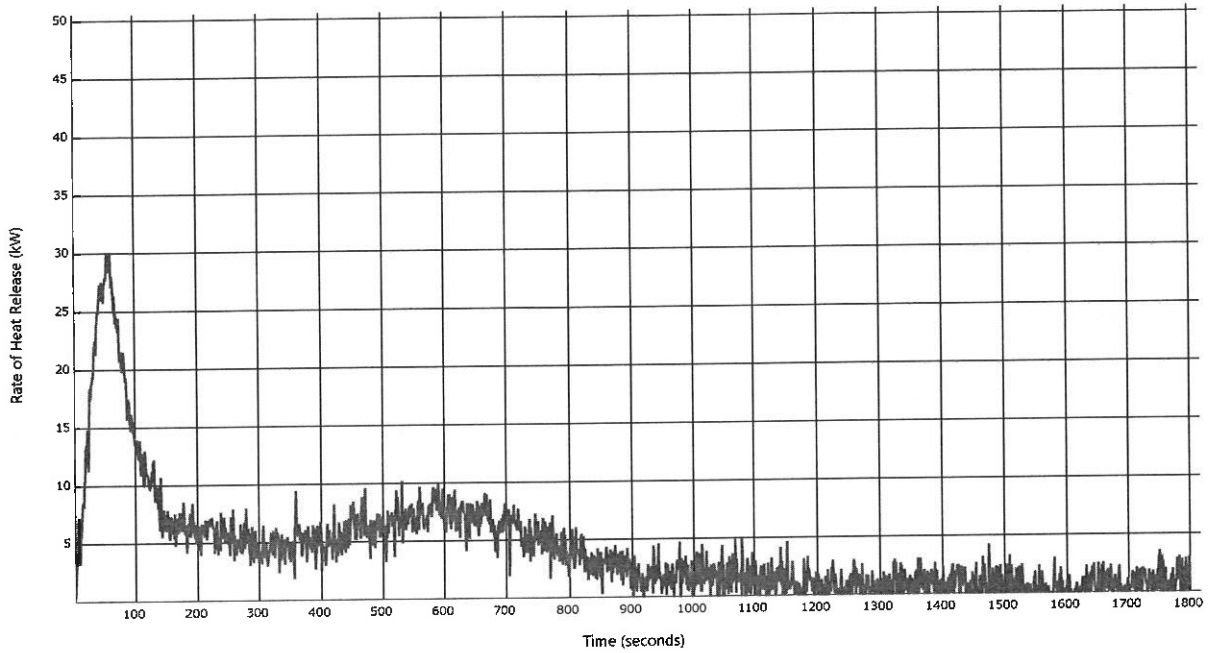


Program: (Version 0.4.0)

Test Method
Test Report #

: CFR 1633
: 3-44249-0---

Rate of Heat Release vs Time



Total Heat Release vs Time

