

**PROJECT NUMBER:** 30161 07-85873.5  
**SAMPLE ID:** FLOBEDS VL8 - 070628-B  
**SAMPLE SIZE:** TWIN MATTRESS SET

**PAGE:** 1 of 7  
**DATE:** July 10, 2007

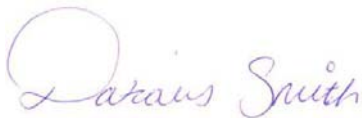
**Testing Services Conducted by:**  
**STORK TWIN CITY TESTING CORPORATION**  
662 Cromwell Avenue  
St. Paul, Minnesota 55114

**OPEN FLAME EVALUATION  
CONDUCTED IN ACCORDANCE WITH  
CONSUMER PRODUCT SAFETY COMMISSION  
16 CFR PART 1633:  
“STANDARD FOR THE FLAMMABILITY (OPEN FLAME)  
OF MATTRESS SETS”**

**Testing Services Performed for:**

**BERKELEY ERGONOMICS**  
ATTN: MR. COLIN HUNTER  
1601 FREMONT CT  
ONTARIO, CA 91761

**Prepared by:**



**Darious Smith**  
**Engineering Technician**  
**Product Evaluation Services**

**Reviewed by:**



**Amy Ostergren**  
**Project Manager**  
**Product Evaluation Services**  
**Phone: (651) 659 - 7303**

The test results contained in this report pertain only to the samples submitted for testing and not necessarily to all similar products.

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**OPEN FLAME EVALUATION – 16 CFR 1633**

**INTRODUCTION AND TEST RESULT SUMMARY:**

This report presents the results of a full scale **16 CFR 1633** open flame test conducted on the following.

PROJECT #:	30161 07-85873 BERKELEY ERGONOMICS		
TEST SEQUENCE #:	5		
TEST REQUESTOR: name:	COLIN HUNTER		
address:	1601 FREMONT CT ONTARIO, CA 91761		
TEST CONFIGURATION:	Test Room - 12' x 10' x 8'		
PRODUCT MANUFACTURER or SUPPLIER:	BERKELEY ERGONOMICS		
PRODUCT ID MARKS & DESCRIPTION:	070628-B		
Prototype ID:			
MATTRESS: width x length x thickness (in):	38.00 x 74.00 x 8.00		
FOUNDATION: width x length x thickness (in):	38.00 x 74.00 x 6.00		
CONDITIONING ROOM: temp (°F) / R.H. (%):	74.0 / 38		
BURN ROOM: temp (°F) / R.H. (%):	70.0 / 51		
TIME LAPSE: condition room to burner ignition (min):	16		
TOTAL INITIAL MASS (kg):	58.07		
TEST DATE:	07-09-2007		
COMMENTS:			
Test Operator:	NICK HOLDERBAUM		
Witness:			
<b>Test Results</b>	<b>Data</b>	<b>Criteria</b>	<b>Pass/Fail</b>
Peak rate of heat release (kW):	20.5	200 kW	Pass
Time @ peak release (mm:ss):	00 : 30	--	-
Total heat released @ 10 min (MJ):	2.0	15.0 MJ	Pass

**THE TEST SAMPLE MET THE REQUIREMENTS OF 16 CFR 1633**

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**STANDARD TEST PROCEDURE:**

Unless stated otherwise in the introduction of this report, this test was conducted in accordance with Consumer Product Safety Commission 16 CFR Part 1633, test configuration B, the room-based configuration. A brief summary is detailed below:

The mattress / mattress set was allowed to condition for at least 48 hours in conditions compliant with Consumer Product Safety Commission 16 CFR Part 1633 (temperature: greater than 65°F and less than 77°F; relative humidity: less than 50%). The test area conditions also were also kept compliant with 16 CFR Part 1633 (temperature: greater than 59°F and less than 80.6°F; relative humidity: less than 75%). A time span of no more than 20 minutes was allowed between the mattress set leaving the conditioning room and burner ignition, this time was recorded and reported in the data table above.

The instrumentation was calibrated and zeroed prior to the evaluation. After the specimen was placed on the bed frame inside the test room, the burner alignment procedure was performed. Data logging and video were obtained for 2 minutes prior to burner ignition. The burner application time was 70 seconds for the top burner and 50 seconds for the side burner. Upon completion of the flame application times, the top burner was carefully lifted off of the mattress surface and the unit removed from the test room.

The test proceeded until either all combustion had ceased, 30 minutes had passed, or the development of a fire of such size as to require suppression for the safety of the facility.

**REMARKS:**

Due to the nature of the test, the specimen was discarded upon completion of the procedure.

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**OBSERVATIONS:**

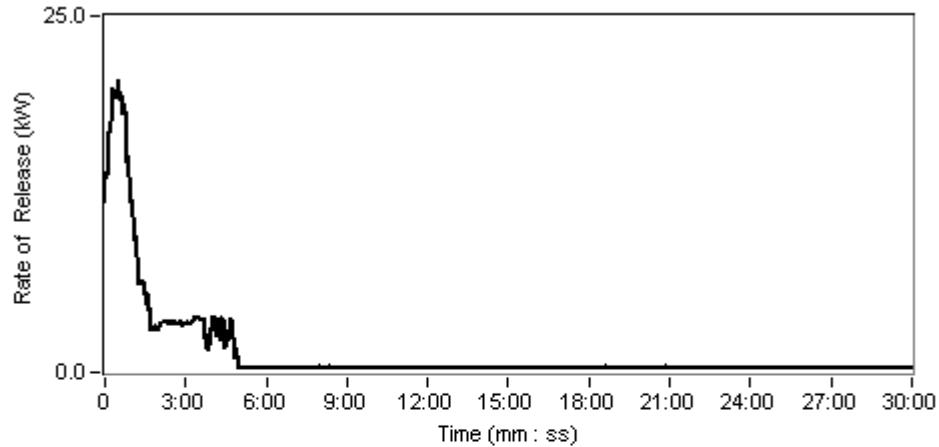
<b>Time (mm : ss)</b>	<b>Observation</b>
00 : 00	Burner ON
00 : 50	Side Burner OFF
01 : 10	Top burner OFF
32 : 50	Test Completed

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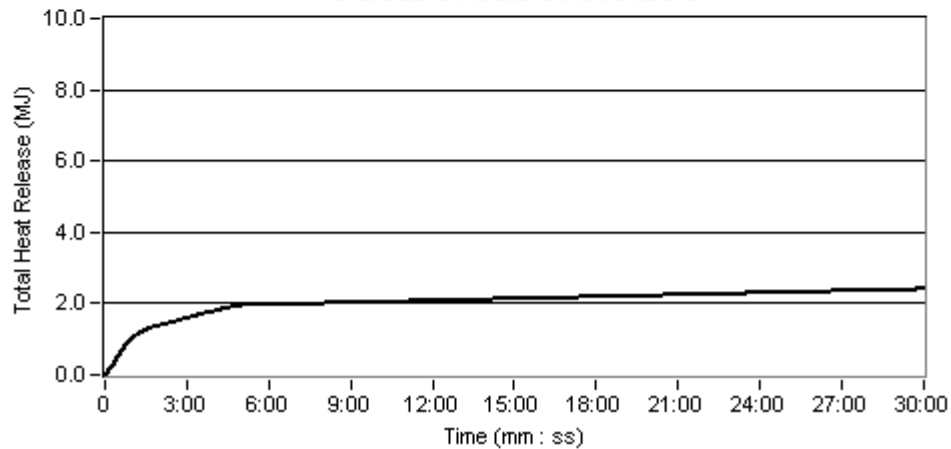
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**GRAPHS:**

**Rate of Heat Release**



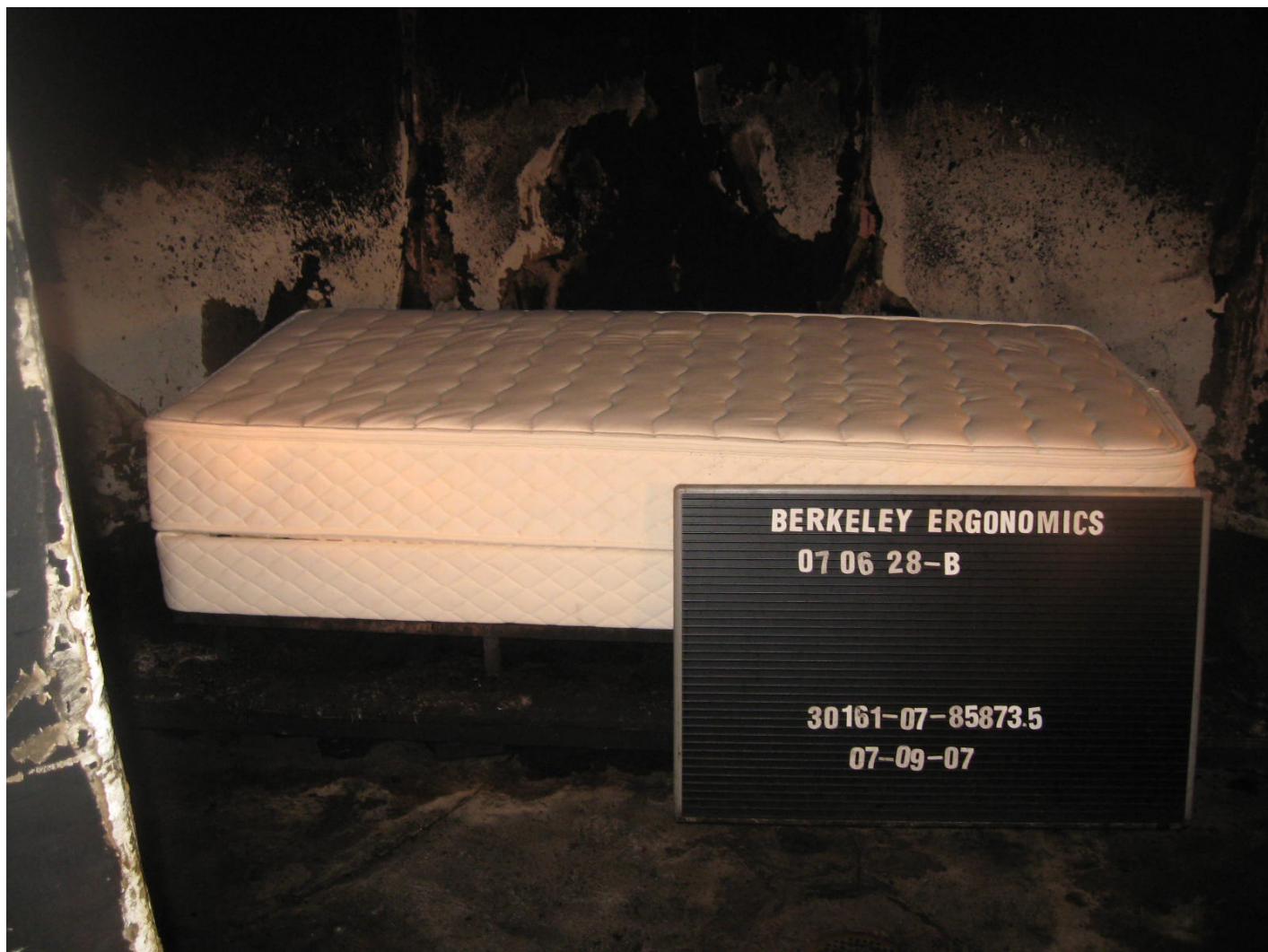
**Total Heat Release**



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**TEST PHOTO:** BEFORE TEST



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**TEST PHOTO: AFTER TEST**



F:\Product\Mattress Flammability\Test Files\30161 07-85873 BERKELEY ERGONOMICS\Berkeley Ergonomics\Berkeley Ergonomics 85873.5.doc

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**Attn.: Amy J. Ostergren, Stork Twin City Testing Corporation****APPLICATION FOR EVALUATION OF CONFIRMATION PROTOTYPE 1633 –  
one sample set**

Date: 5/21/07

Prototype ID: VL8

Berkeley Ergonomics  
1601 Fremont Ct.  
Ontario, CA 91761  
Tel.: 909 673 1932

*1SET - 2pc's*Mattress Model Name: **FloBeds VL8****Manufacturing Specifications:****Design Type:** Single sided, zipper design, latex / visco foam 8"**Foundation Info:** Mattress to be with foundation HPS**Description of MATTRESS Component Materials:****Ticking:** 100% organic stretch, ecru, twill**Insulation:**

- **Top and bottom panel:** Needle punched sheep wool, 1.7 oz/ft<sup>2</sup>,
- **Border:** Needle punched sheep wool, 0.9 oz/ft<sup>2</sup>

**Core:** Latex / Visco Combination 8":LATEX 2 3/4" – 4.7 lbs/ ft<sup>3</sup>LATEX 2 3/4" - 4.0lbs/ ft<sup>3</sup>VISCO 2 1/2" – 5.0 lbs/ft<sup>3</sup>**Overall size (in.):** 38.5" x 74.5" x 6.5"

Wood Foundation