CAPITAL BEDDING
Since 1969

# Handcrafted Mattresses that are “Built to Last!”

**For over 55 years, Capital Bedding has been creating the best handcrafted mattresses with a strong focus on quality, comfort, and long-lasting durability. We decided to ask a third-party testing facility to evaluate our best-selling Revere and Rhapsody series and put them through the most vigorous endurance testing in the mattress industry. Intertek Laboratories ran their rollator test for 30,000 cycles and then tried to crush the middle and the sides, and the Revere / Rhapsody came out with virtually no noticeable impact. See the following pages for complete details of the testing results. If you have not added the Revere / Rhapsody yet, be sure to reach out to us for more details or contact your local representative.**



# CAPITAL BEDDING, INC

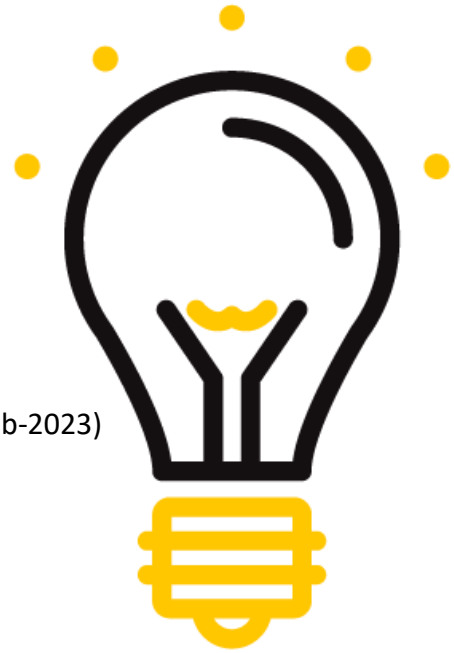
# TEST REPORT

**SCOPE OF WORK**
BS EN 1957:2012 / EN 1334:1996 / BS EN 1725:1998
testing on REVERE PLUSH FLIP QUEEN MATTRESS

**REPORT NUMBER**
105624080GRR-001A

**ISSUE DATE**
Dec-18-2023

**PAGES**
13



**DOCUMENT CONTROL NUMBER**
Per GRFurn-RT-024 IOS-TM-0008-Report Template (06-Feb-2023)
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# TEST REPORT FOR CAPITAL BEDDING, INC

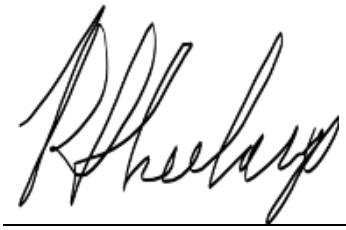
Report No.: 105624080GRR-001A
Date: Dec-18-2023
P.O.: 13050

## SECTION 1

## CLIENT INFORMATION

Attention: Crystal McGregory
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Richard Houskamp
Project Technician



James Jantz
Project Reviewer

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## SECTION 2

## SUMMARY AND CONCLUSION

Date Received: Nov-03-2023
Date(s) Tested: Dec-13-2023 to Dec-17-2023

## DESCRIPTION OF SAMPLES

Part Description: REVERE PLUSH FLIP QUEEN MATTRESS
Condition of Test Sample: Packaged in corrugate and plastic bags in new condition
Number of Samples Tested: One (1)

## WORK REQUESTED/APPLICABLE DOCUMENTS

BS EN 1957:2012 / EN 1334:1996 / BS EN 1725:1998
Intertek quote: Qu-01401145-1

| NO. | STANDARD | SECTION | TEST DESCRIPTION | CONCLUSION |
|---|---|---|---|---|
| 1 | EN 1334 | 6.3 | Determination of height of mattresses | Information Only |
| 2 | BS EN 1957 | 7.2 | Durability test (30,000 Cycles) | Information Only |
| 3 | BS EN 1957 | 7.3 & 8 | Evaluation of characteristic parameters | Information Only |
| 4 | BS EN 1725 | 7.5 | Durability of bed edge (5,000 Cycles) | Information Only |
| 5 | BS EN 1957 | 7.3 & 8 | Evaluation of characteristic parameters | Information Only |

## CONCLUSION

The submitted sample conforms with the acceptance criteria of the tests outlined above.

## SAMPLE DISPOSITION

After test completion, the sample was dismantled and disposed of per client's request.

## TEST EQUIPMENT

| ASSET # | DESCRIPTION | LAST CAL | NEXT DUE |
|---|---|---|---|
| 138012 | Fairbanks beam scale – 0 to 1000lb x 0.25lb | Sep-10-2023 | Sep-10-2024 |
| 138203 | Mattress and Bed Fatigue Tester | NCR | NCR |
| 138204 | EN 1334 Check Bar | VBU | VBU |
| 138206 | Load / Deflection Machine | Mar-21-2023 | Mar-21-2024 |
| 138206.1 | 2KN Load Cell | Mar-21-2023 | Mar-21-2024 |
| 138208 | AX2 Rolling Load Mattress Tester | VBU | VBU |
| 138208.1 | European Standard Roller | VBU | VBU |
| 138216 | Meter Stick | Dec-29-2022 | Dec-29-2025 |
| 138354 | Edge/Seat Loading Pad | VBU | VBU |
| 138406 | Dickson TM320 Temperature & Humidity Logger | Oct-25-2023 | Oct-25-2024 |

## SECTION 3

## EN 1334 SECTION 6.3 DETERMINATION OF THE HEIGHT OF MATTRESSES AND DIVAN BASES

Date Tested: Dec-13-2023
Location Tested: Intertek Kentwood, MI

## DESCRIPTION OF SAMPLES

Part Description: REVERE PLUSH FLIP QUEEN MATTRESS
Number of Samples Tested: One (1)

## TEST PROCEDURE

Test Method: Per EN 1334 Section 6.3

Height was measured in accordance with EN 1334

## ACCEPTANCE CRITERIA

For customer information purposes only.

## RESULTS

| SAMPLE ID | HEIGHT OF SAMPLE |
|---|---|
| REVERE PLUSH FLIP QUEEN MATTRESS | 396mm |

## BS EN 1957 SECTION 7.2 ROLLER DURABILITY TEST

Date Tested: Dec-14-2023 to Dec-16-2023
Location Tested: Intertek Kentwood, MI

## DESCRIPTION OF SAMPLES

Part Description: REVERE PLUSH FLIP QUEEN MATTRESS
Number of Samples Tested: One (1)

## TEST PROCEDURE

Test Method: Per BS EN 1957 Section 7.2

Applied Load: 1400N ± 7N

Cycle Frequency: 16 ± 2 Cycles Per Minute

Number of Cycles Required: 30,000

Length of Travel of Roller: 500mm

## ACCEPTANCE CRITERIA

For customer information purposes only.

## RESULTS

| SAMPLE ID | NUMBER OF CYCLES | DESCRIPTION OF RESULTS |
|---|---|---|
| REVERE PLUSH FLIP QUEEN MATTRESS | 30,000 | No Observable Damage |

The submitted sample showed no lumpiness due to movement in the filling material or tears in seams due to the test. Refer to the following page for photograph.



**Roller Durability Test**

## BS EN 1957 SECTION 7.3 LOAD/DEFLECTION CURVE AND BS EN 1957 SECTION 8 EVALUATION OF CHARACTERISTIC PARAMETERS (CENTER)

| | |
|---|---|
| Date of Initial Measurement: | Dec-14-2023 |
| Date of Final Measurement: | Dec-16-2023 |
| Location Tested: | Intertek Kentwood, MI |

## DESCRIPTION OF SAMPLES

| | |
|---|---|
| Part Description: | REVERE PLUSH FLIP QUEEN MATTRESS |
| Number of Samples Tested: | One (1) |

## TEST PROCEDURE

| | |
|---|---|
| Measurement Method: | Per BS EN 1957 Section 7.3 |
| Evaluation Method: | Per BS EN 1957 Section 8 |

**8.1 Determination of Height Loss**
The height loss is the difference between the initial measurement at 100 cycles and after testing.

**8.2 Determination of Hardness Value**
The hardness value (H) is the average of the slopes of the load/deflection curves at 210N, 275N and 340N.

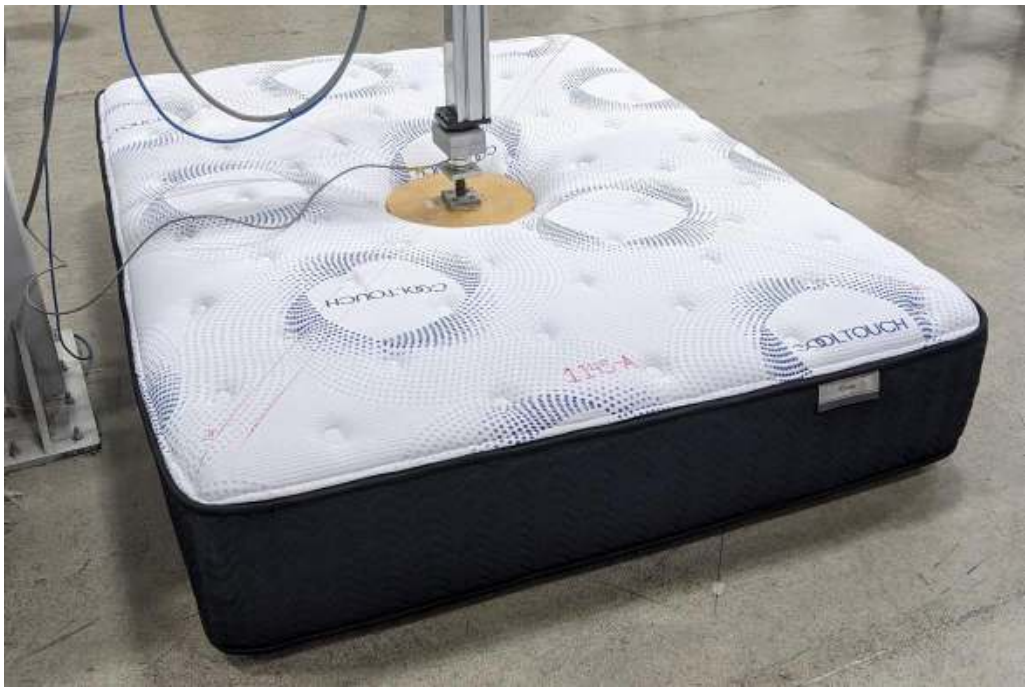
**8.3 Determination of Firmness Rating**
The firmness rating is a number (1 decimal) on a scale from 1 to 10 which expresses the firmness of a unit.

## ACCEPTANCE CRITERIA

For informational purposes only.

## RESULTS

The submitted sample was evaluated as described above. Refer to the following page for photograph and characteristic data.



| Bed surface, 1145-A | 100 | 30,000 | |
|---|---|---|---|
| 14-Dec-2023 08 46 | mm | mm | Change |
| Height at 50N | 367 | 363 | -4 |
| Height at 450N | 311 | 299 | -12 |
| Spring Depth: 50-450N | 56 | 64 | 8 |
| Hardness value (H) | 6.8 | 6.0 | -0.7 |
| Firmness rating (HS) | **5.2** | 6.3 | 1.1 |

**Evaluation of Characteristic Parameters – Center Location**

## BS EN 1725 SECTION 7.5 DURABILITY OF BED EDGE

Date Tested: Dec-16-2023 to Dec-17-2023
Location Tested: Intertek Kentwood, MI

## DESCRIPTION OF SAMPLES

Part Description: REVERE PLUSH FLIP QUEEN MATTRESS
Number of Samples Tested: One (1)

## TEST PROCEDURE

Test Method: Per BS EN 1725 Section 7.5

Applied Force: 1,000N

Duration of Applied Force: 3 seconds ± 1 second

Location of Applied Force: 200mm from Edge of Sample at the Middle Length

Number of Cycles: 5,000

## ACCEPTANCE CRITERIA

For customer information purposes only.

## RESULTS

| SAMPLE ID | NUMBER OF CYCLES | DESCRIPTION OF RESULTS |
|---|---|---|
| REVERE PLUSH FLIP QUEEN MATTRESS | 5,000 | No Observable Damage |

The submitted sample showed no lumpiness due to movement in the filling material or tears in seams due to the test. Refer to the following page for photograph.




**Durability of Bed Edge Test**

## BS EN 1957 SECTION 7.3 LOAD/DEFLECTION CURVE AND BS EN 1957 SECTION 8 EVALUATION OF CHARACTERISTIC PARAMETERS (EDGE)

Date of Initial Measurement: Dec-16-2023
Date of Final Measurement: Dec-17-2023
Location Tested: Intertek Kentwood, MI

## DESCRIPTION OF SAMPLES

Part Description: REVERE PLUSH FLIP QUEEN MATTRESS
Number of Samples Tested: One (1)

## TEST PROCEDURE

Measurement Method: Per BS EN 1957 Section 7.3
Evaluation Method: Per BS EN 1957 Section 8

**8.1 Determination of height loss**
The height loss is the difference between the initial measurement at 100 cycles and after testing.

**8.2 Determination of hardness value**
The hardness value (H) is the average of the slopes of the load/deflection curves at 210N, 275N and 340N.

**8.3 Determination of firmness rating**
The firmness rating is a number (1 decimal) on a scale from 1 to 10 which expresses the firmness of a unit.

## ACCEPTANCE CRITERIA

For informational purposes only.

## RESULTS

The submitted sample was evaluated as described above. Refer to the following page for photograph and characteristic data.

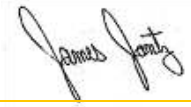



| Bed Edge, 1145-A | 100 | 5,000 | |
|---|---|---|---|
| 16-Dec-2023 07 01 | mm | mm | Change |
| Height at 50N | 367 | 359 | -9 |
| Height at 600N | 274 | 261 | -13 |
| Spring Depth: 50-600N | 93 | 98 | 4 |

**Evaluation of Characteristic Parameters – Edge Location**

## SECTION 4

## REVISIONS MADE TO TEST REPORT

| DATE | REVISION DESCRIPTION | REVISED BY | REVISED BY | REVIEWED BY |
|---|---|---|---|---|
| Dec-27-2023 | | Rich Houskamp |  |  |
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