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|--|----------------------------------|---------------|
|  | Requested By: | NA |
| | Customer: | Avocado |
| | Project No.: | 418-04 |
| | No. of Samples Submitted: | 1 |
| | Unit Nos.: | N/A |
| | Unit Size(s): | Queen |
| | LL Test Technician(s): | DB / CL |
| | LL Manager: | Kyle Lisenbee |
| | Test Start Date: | 04/25/18 |
| Test Completion Date: | 09/14/18 | |

| | |
|--|-----------------------------------|
| Tests to be Performed: | |
| ASTM F1566 SECTION 9 - CORNELL ASTM F1566 SECTION 7 - ROLLATOR <ul style="list-style-type: none"> • INCREMENTAL FIRMNESS RETENTION • INCREMENTAL HEIGHT RETENTION BOUNCE TEST SWAY TEST | PRESSURE DISTRIBUTION TEST |
| Pre-Test Conditioning (24 hrs): | Product Test Condition: |
| Ambient Temp: 76.5 °F | Ambient Temp: 76.5 °F |
| Ambient Humidity: 55 % | Ambient Humidity: 55 % |

| Test Sample(s) | Unit Number | Sample Description |
|----------------|-------------|--------------------|
| | N/A | Reed Mattress |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| Condition of Unit(s) Received |
|---|
| The Avocado "Reed" mattress was unpackaged and allowed to recover/acclimate for 48 hours prior to being subjected to the requested testing. No deformities or imperfections were observed prior to testing. |

| Test Results |
|---|
| <p>(1) ASTM F1566 SECTION 9 - CORNELL / COMPLETED</p> <ul style="list-style-type: none"> • The total accumulated dimple recorded was 0.80" (refer to page 2 for data). • The support firmness exhibited an increase of 12.00% (refer to page 2 for data). <p>(2) ASTM F1566 SECTION 7 - ROLLATOR / COMPLETED</p> <ul style="list-style-type: none"> • No notable observations or damage were observed during the Rollator test. • The total firmness loss recorded was -2.20% (refer to page 3 for data). • The total height loss recorded was approximately -0.129" or -1.091% (refer to page 3 for data). <p>(5) BOUNCE TEST / COMPLETED</p> <ul style="list-style-type: none"> • Refer to page 4 for data. <p>(6) SWAY TEST / COMPLETED</p> <ul style="list-style-type: none"> • Refer to page 4 for data. <p>(7) PRESSURE DISTRIBUTION TEST / COMPLETED</p> <ul style="list-style-type: none"> • Refer to page 5 for data. |

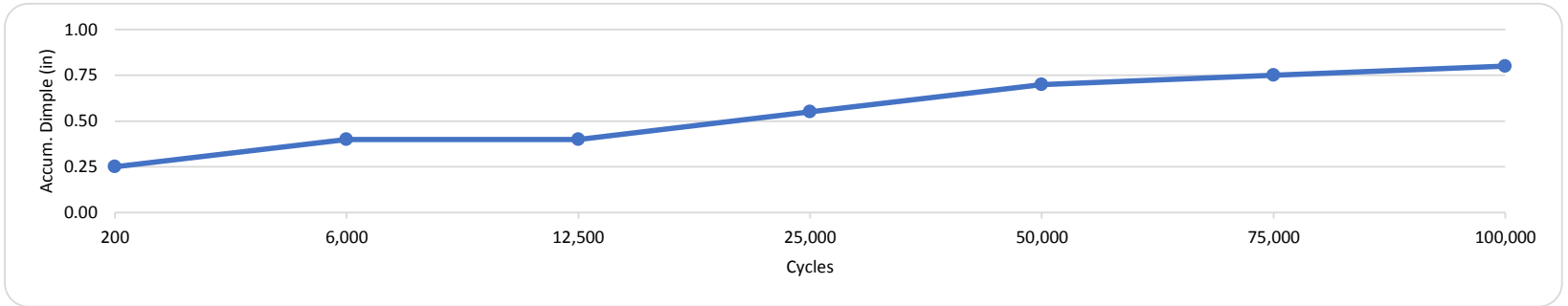


ACCUMULATED DIMPLE

Accumulated dimple is the result of applied force to the surface of the mattress set. It is measured by the depth of compacting, or dimpling, after repeated strokes of the plunger and ram head.

- Desirable: 1.75" Maximum Cumulated Dimple

| CYCLES | 200 | 6,000 | 12,500 | 25,000 | 50,000 | 75,000 | 100,000 |
|--------------------------|------|-------|--------|--------|--------|--------|---------|
| Accumulated Dimple (in): | 0.25 | 0.40 | 0.40 | 0.55 | 0.70 | 0.75 | 0.80 |

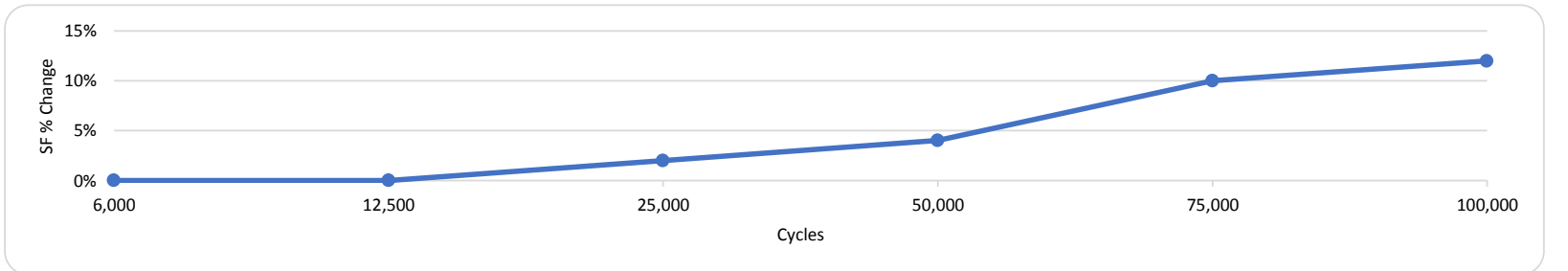


SUPPORT FIRMNESS

Support firmness relates to the ability of a mattress to resist indentation when weight is applied. The values derived from this procedure are expressed in pounds and provide a means of comparing a characteristic that relates to firmness.

- Desirable: Upper Range = +40% (Firmness Increase) | Lower Range = -15% (Softening)

| CYCLES | 6,000 | 12,500 | 25,000 | 50,000 | 75,000 | 100,000 |
|--------------------------|-------|--------|--------|--------|--------|---------|
| Support Firmness Change: | 0.00% | 0.00% | 2.00% | 4.00% | 10.00% | 12.00% |



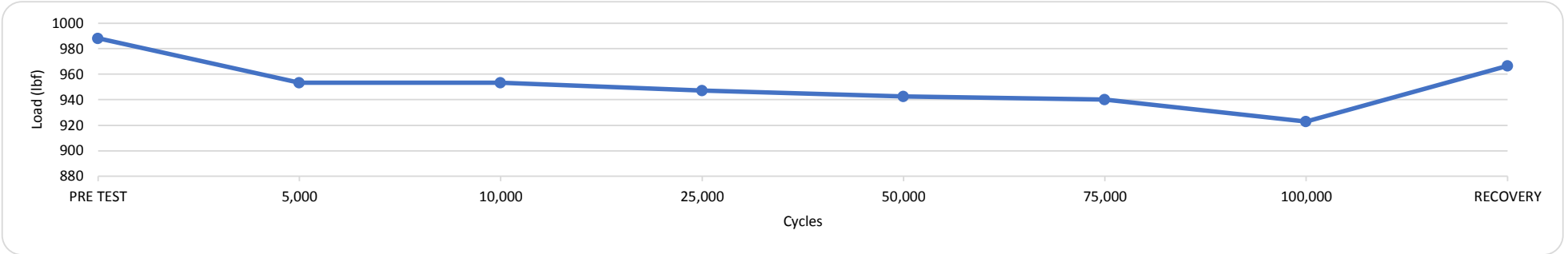
ASTM F1566 SECTION 7 - ROLLATOR
 INCREMENTAL FIRMNESS RETENTION ANALYSIS
 INCREMENTAL HEIGHT RETENTION ANALYSIS

INCREMENTAL FIRMNESS PERFORMANCE (LEGGETT LABS METHOD)

| CYCLES | PRE TEST | 5,000 | 10,000 | 25,000 | 50,000 | 75,000 | 100,000 | RECOVERY |
|-----------|----------|--------|--------|--------|--------|--------|---------|----------|
| ILD Data: | 988.27 | 953.39 | 953.37 | 947.28 | 942.65 | 940.19 | 922.88 | 966.55 |
| % Change: | - | -3.53% | -3.53% | -4.15% | -4.62% | -4.87% | -6.62% | -2.20% |

NOTES:

- Leggett Labs Method = Sum of 1/2" increments to 4"
- Desirable: +10% to -15%



FIRMNESS COMPARISON (ASTM METHOD)

| PRE TEST | POST TEST | % Change |
|----------|-----------|----------|
| 56.795 | 54.180 | -4.61% |

NOTES:

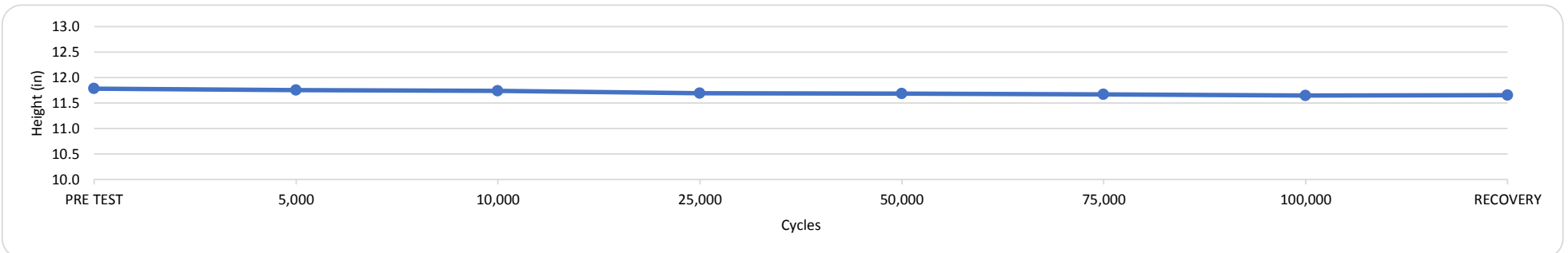
- ASTM Method: 175 lbs. divided by deflection required to achieve 175 lbs.

INCREMENTAL HEIGHT CHANGE

| CYCLES | PRE TEST | 5,000 | 10,000 | 25,000 | 50,000 | 75,000 | 100,000 | RECOVERY |
|-------------------|----------|---------|---------|---------|---------|---------|---------|----------|
| Height (in): | 11.782 | 11.752 | 11.741 | 11.694 | 11.683 | 11.666 | 11.648 | 11.653 |
| Height Loss (in): | - | -0.029 | -0.040 | -0.088 | -0.099 | -0.116 | -0.134 | -0.129 |
| % Change: | - | -0.247% | -0.341% | -0.747% | -0.841% | -0.983% | -1.137% | -1.091% |

NOTES:

- Desirable: < -1" and/or -10% Body Impression



BOUNCE ANALYSIS

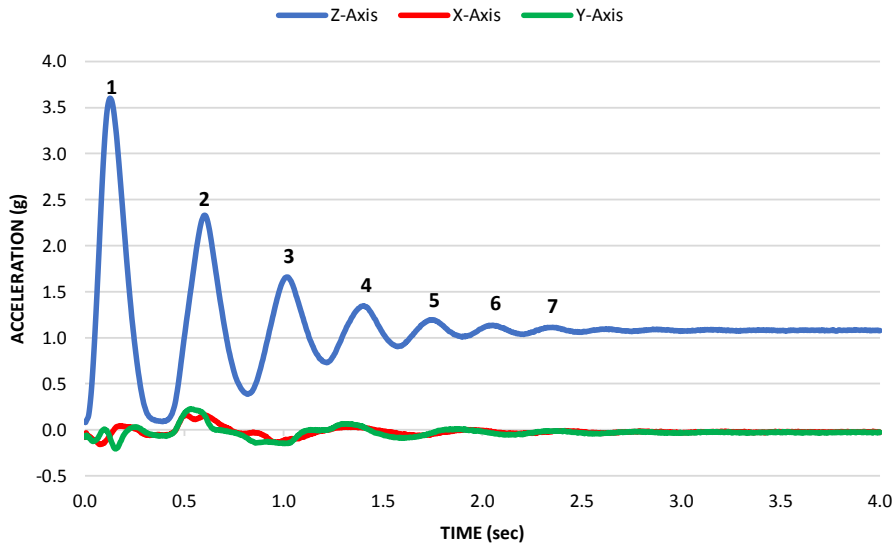
This test measures the bounce or active loading properties of a mattress or mattress set.

- X-Axis: Mattress width
- Y-Axis: Mattress length
- Z-Axis: Up/Down

| AVERAGE ACCELERATION (g) | | | AVERAGE ROTATION (degrees) | |
|--------------------------|--------|--------|----------------------------|---------|
| X-Axis | Y-Axis | Z-Axis | X Angle | Y Angle |
| 0.383 | 0.454 | 3.554 | 22.132 | 26.287 |

| BOUNCE EQUILIBRIUM | | FREQUENCY (Hz) |
|--------------------|--------|----------------|
| Time (sec) | Cycles | 3.115 |
| 2.248 | 7 | |

BOUNCE ANALYSIS CHART



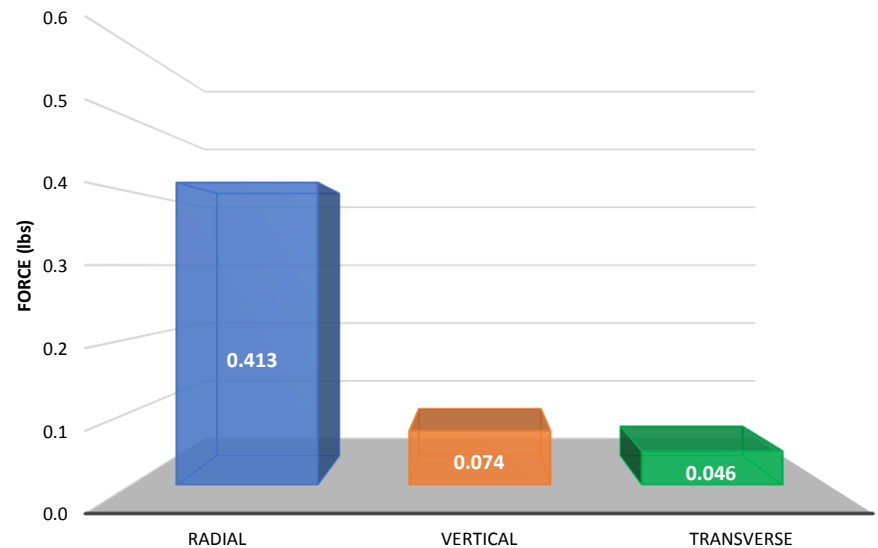
SWAY FORCE ANALYSIS

This test measures the forces applied on a body, in a mattress or mattress set, under typical loading conditions.

- Radial: Across width of mattress
- Transverse: Across length of mattress
- Vertical: Up/Down

| SEISMOGRAPH DATA | | | |
|------------------|------------|-----------------------------------|--------------|
| VECTORS | MASS (lbs) | ACCELERATION (in/s ²) | FORCE (lbs) |
| Radial | 105 | 0.077 | 0.413 |
| Vertical | 105 | 0.014 | 0.074 |
| Transverse | 105 | 0.009 | 0.046 |
| TOTAL: | | | 0.533 |

SWAY FORCE ANALYSIS CHART

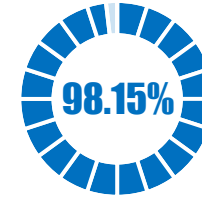


PRESSURE DISTRIBUTION TEST

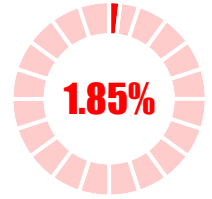
PRESSURE SENSOR DISTRIBUTION TABLE | 105LB MANIKIN (5'-5")

| PRESSURE INTERVALS (mmHg) | HEAD | TRUNK | HIPS | LEGS | HEELS | TOTAL | PERCENTAGE |
|---------------------------|------|-------|------|------|-------|-------|------------|
| 0 - 10 | 11 | 152 | 81 | 65 | 5 | 314 | 28.99% |
| 11 - 20 | 16 | 344 | 239 | 12 | 5 | 616 | 56.88% |
| 21 - 30 | 17 | 34 | 79 | 1 | 2 | 133 | 12.28% |
| 31 - 50 | 3 | 1 | 16 | 0 | 0 | 20 | 1.85% |
| 51 - 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00% |

DESIRABLE PRESSURE



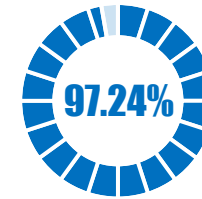
UNDESIRABLE PRESSURE



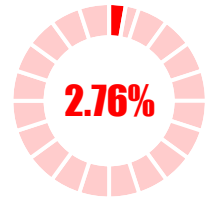
PRESSURE SENSOR DISTRIBUTION TABLE | 165LB MANIKIN (6'-1")

| PRESSURE INTERVALS (mmHg) | HEAD | TRUNK | HIPS | LEGS | HEELS | TOTAL | PERCENTAGE |
|---------------------------|------|-------|------|------|-------|-------|------------|
| 0 - 10 | 12 | 154 | 177 | 272 | 10 | 625 | 35.92% |
| 11 - 20 | 11 | 372 | 310 | 126 | 16 | 835 | 47.99% |
| 21 - 30 | 3 | 97 | 108 | 22 | 2 | 232 | 13.33% |
| 31 - 50 | 1 | 12 | 16 | 13 | 4 | 46 | 2.64% |
| 51 - 100 | 0 | 0 | 0 | 1 | 1 | 2 | 0.11% |

DESIRABLE PRESSURE



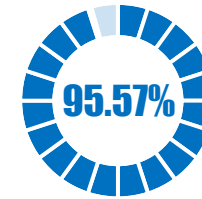
UNDESIRABLE PRESSURE



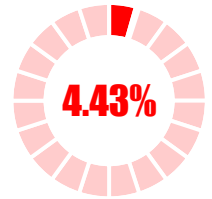
PRESSURE SENSOR DISTRIBUTION TABLE | 200LB MANIKIN (6'-1")

| PRESSURE INTERVALS (mmHg) | HEAD | TRUNK | HIPS | LEGS | HEELS | TOTAL | PERCENTAGE |
|---------------------------|------|-------|------|------|-------|-------|------------|
| 0 - 10 | 22 | 152 | 191 | 245 | 19 | 629 | 33.14% |
| 11 - 20 | 21 | 393 | 290 | 126 | 8 | 838 | 44.15% |
| 21 - 30 | 14 | 145 | 158 | 23 | 7 | 347 | 18.28% |
| 31 - 50 | 3 | 41 | 22 | 7 | 2 | 75 | 3.95% |
| 51 - 100 | 0 | 0 | 1 | 7 | 1 | 9 | 0.47% |

DESIRABLE PRESSURE



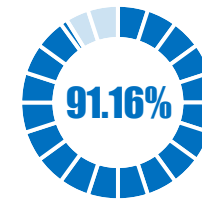
UNDESIRABLE PRESSURE



PRESSURE SENSOR DISTRIBUTION TABLE | 250LB MANIKIN (6'-1")

| PRESSURE INTERVALS (mmHg) | HEAD | TRUNK | HIPS | LEGS | HEELS | TOTAL | PERCENTAGE |
|---------------------------|------|-------|------|------|-------|-------|------------|
| 0 - 10 | 24 | 186 | 195 | 253 | 14 | 672 | 30.16% |
| 11 - 20 | 22 | 417 | 376 | 201 | 11 | 1027 | 46.10% |
| 21 - 30 | 14 | 143 | 131 | 42 | 2 | 332 | 14.90% |
| 31 - 50 | 16 | 63 | 56 | 26 | 8 | 169 | 7.59% |
| 51 - 100 | 16 | 7 | 3 | 1 | 1 | 28 | 1.26% |

DESIRABLE PRESSURE



UNDESIRABLE PRESSURE

