

Bed System Measurement Device

In 2006 the FDA, with the help of the Hospital Bed Safety Workgroup issued a guidance document entitled, "Hospital Bed System Dimensional Guidelines to Reduce Entrapment". These guidelines aid in the design of new bed systems and assess entrapment risks associated with hospital bed systems. In response to these guidelines, National Safety Technologies offers the innovative Bed System Measurement Device.



The Bed System Measurement Device offers you the following features and benefits:

- **The validated test tool for assessing a bed system's conformance to the FDA guidance.**
- The only device specifically designed to test the four critical entrapment zones of a bed system.
- Allows a two-person team to test a complete bed system within 15 minutes.
- Easy to read Pass/Fail indicators located on the device.
- Safety strap designed to prevent the device from falling on your feet during testing.

Product Offering:

Product # B4000: Bed System Measurement Device

Cone and Cylinder Tool

The Cone and Cylinder Tool are used together for testing Zone 4 or easily detach to allow use of the Cone only for testing Zones 1-3.

Key Dimensions:

- The diameter of the large end of the cone is the width of a small adult head or $4 \frac{3}{4}$ inches (120 mm).
- The diameter of the cylinder is the size of a small adult neck or $2 \frac{1}{3}$ inches (60 mm).
- The cone and cylinder together is the weight of a small adult head and neck or 15 lbs.



Cone and Cylinder Tool

Features:

- Easy to read red and green zones on the cylinder section for measuring side rails
- Easy to read lines on the cone to measure mattress compression
- A safety strap to prevent the device from falling to the floor
- Attachment ring for spring scale

Scale

The scale is used to apply 12 lbs. of force to the cone for testing Zones 1 and 2.

Features:

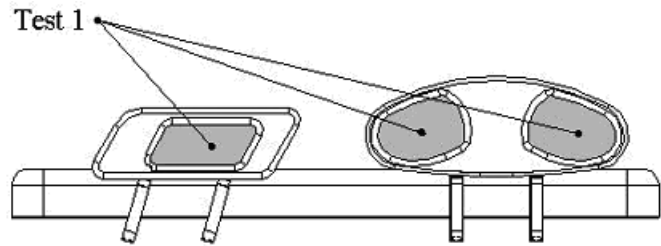
- Large, clearly marked scale
- A hook used to connect the scale to the Cone tool



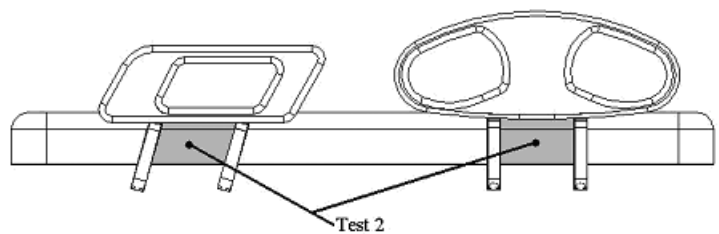
4 Critical Entrapment Test Zones (As determined by the Hospital Bed Safety Workgroup):

There are 4 tests designed to measure gaps in the bed system where a patient can become entrapped.

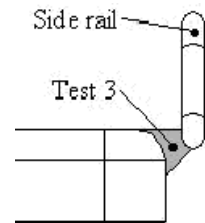
Zone 1 - Within the bed rail itself



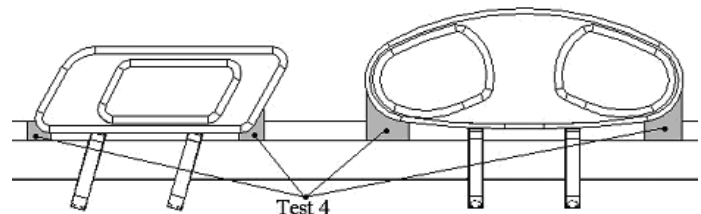
Zone 2 - Between the bottom of the rail, the top of the mattress and between the rail supports



Zone 3 - Between the outside edge of the mattress and the inside of the side rail



Zone 4 - Between the top of the compressed mattress and the bottom of the rail, at the end of the rail.



FDA Guidance Document available at <http://www.fda.gov/cdrh/beds/>

For more information visit www.nst-usa.com

Testing Made Easy. Safety Made Simple.



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