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OBJECT: Product Compliance Testing – Westcot Shelter in Place Cot

Date: February 17, 2018

A Settle Load Test is performed annually on the Westcot Shelter In Place (WCSIP) to ensure product compliance. The Settle Load Testing is performed using a Testing Recorder, Testing Technician, and the Hydraulic Bed Buster designed by the Engineers at Integrity Medical Solutions, Inc. The testing period was this year was from 02/07/2018 (1000) - 02/12/2018 (0730)

The WCSIP affords a Durable Head Elevator to maximize comfort and allow for multiple uses during Troop Rest Periods. The WCSIP is constructed of 0.062 Drawn Aluminum Tubing that is End Finished and precisely formed to meet IMS specifications. All three Legs are constructed of 0.969 x 0.062 Drawn Aluminum Tubing and consist of a durable Leg Brace Design, Steel Leg Hinges, and Steel Gauge Leg Locks for Safety. The two End Legs are equipped with Cot Stabilization Technology in the form of Anti-Tilt Side Mounted Tubes. The Center Leg is equipped with a Steel T-Bracket fabricated of Stamped Steel. We enclose a Bias Wrapped 0.148 Steel Sheppard Rod around the boarder of the Vinyl Coated Woven Fabric before attaching it with 48 Steel Hook and Loop Springs to the Aluminum Frame which each have a pull strength of 114 Lbs. The 48 Steel Springs are Zinc plated as is every piece of Steel used on all Westcots.

The Testing Organizer routinely recorded the following data as the Testing Technician Operated the Machine:

Weight Applied: 485 Lbs
Total Impact Count: 16,137 Impact
Total Rested Time: 92.5 Hours

Head End Frame: Exposed to 5,127 Impact Cycles (Time: 0900 – 1600). At 1600 The Weight was rested on the Head End Frame where is stayed until the next morning. At 0730 the following morning we recorded 15.5 hours of Settle Load Rested Weight at 485 Lbs.

Center: Exposed to 5,610 Impact Cycles (Time: 0715 - 1700). From 1700 – 0730 (14.5 Hours) the weight was rested on the Center Position of the WCSIP until the next morning. The Technician was then instructed to reposition the WCSIP on the Testing Platform for the final phase.

Foot End Frame: Exposed to 5,400 Impact Cycles from 0930 - 1700. The Organizer and Technician rested the weight at the Foot End Friday at 1700 and would not return until 02/12/2018 at 0730 (62.5 Hours)

Results:

The bed was inspected by IMS's Engineering Team and noted the following: The normally 32" wide bed took a permanent set in its width of 31.75" at the Head End Frame, 31.875" at the Foot End Frames and 31.50" at the Cener Frame Position of the WCSIP. No other deviation was noted and IMS Ownership determined that the WCSIP was compliant with tollerance specifications and the Working Capacity publicized throughout IMS literature.

J. Shaun Taylor
Tube Enterprises Inc dba: Integrity Medical Solutions Inc