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## **OBJECT: Settle Load Test – Westcot Bariatric Special Needs Cot (WCBSN)**

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A Settle Load Test is performed annually on the WCBSN 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 results are verified by the Quality Assurance team. The testing period this year was from 01/17/2018 (1000) - 01/22/2018 (0730)

The WCBSN Head and Foot End Frames are constructed of 0.969 x .075 Drawn Aluminum Tubing that is End Finished and precisely formed to meet IMS specifications. There are two U-Shaped Legs at either end and one U-Shaped Leg in the Center that is reinforced with a Steel Tubular Insert. All three Legs are constructed of 0.969 x 0.062 Drawn Aluminum Tubing and consist of a Leg Brace Design and Steel Leg Hinges that add strength to the BPC. 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 from Tubular Steel and a Heavy Duty 4” Steel Channel, which are joined and Electroplated. We enclose a Bias Wrapped 0.148 Steel Sheppard Rod around the boarder of the Vinyl Coated Woven Fabric before attaching it with 84 Steel Hook and Loop Springs to the Aluminum Frame. The 84 Steel Springs each have a resistance yield of 114 Lbs and are precisely engaged to maximize efficiency through out the product.

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

Weight Applied: 750 Lbs  
Total Cycles: 15,480 Impact  
Total Rested Time: 91.5 Hours

### Testing Team Results:

Head End Frame: Exposed to 5,040 Impact Cycles (Time: 1000 – 1700). At 1700 The Weight was rested on the Head End Frame where it stayed until the next morning. At 0730 the following morning we recorded 14.5 hours of Settle Load at 750 Lbs.

Center: Exposed to 3,600 Impact Cycles (Time: 1200-1700). From 1700 – 0730 (14.5 Hours) the weight was rested on the Center Position of the BPC. From 0730-0930 we resumed the Impact Testing (+1,440 Cycles). The Technician was then instructed to reposition the BPC 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 January 22, 2018 at 0730 (62.5 Hours)

### Quality Assurance Team Conclusion:

The WCBSN was inspected by IMS’s Quality Assurance Team and noted the following: The 38” wide bed took a permanent set in width of 37.5” at the Head End Frame, 37.875” at the Foot End Frame and 37.25” at the Center Frame Position of the WCBSN. There was no permanent sag in the Decking Material and no catastrophic failure of any components. All Legs, and Leg Locking Systems were approved for compliance. No other deviation was noted and IMS’s managing partners determined that the WCBSN was compliant with tolerance specifications and the Working Capacity publicized throughout IMS literature.