

# Test Report



<b>Customer</b>	<b>Alu Rehab</b>
<b>Test Item</b>	<b>Netti III 450</b>
<b>Test</b>	<b>ISO 7176-19:2008 as amended by EN 12183:2014</b>
<b>Millbrook Report No.</b>	<b>15/0962</b>
<b>Millbrook Test No.</b>	<b>S13831</b>

**Author:**

A handwritten signature in black ink, appearing to read "E. Islami".

E. Islami  
Engineer

**Approved:**

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S. Jones  
Principal Engineer

**Date:**

4<sup>th</sup> November 2015

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### Test Results Summary

<b>Test No:</b> S13831 <b>Test Type:</b> ISO 7176-19:2008 as amended by EN12183:2014 <b>Manufacturer:</b> Alu Rehab. <b>WC Model:</b> Netti III 450 <b>Mass:</b> 36kg <b>Seat Rail Angle:</b> 17° <b>Seat Back Angle:</b> 13° <b>Head Restraint:</b> Fitted <b>Occupant:</b> Hybrid II 50 <sup>th</sup> Percentile (76kg) <b>Front Tie Downs:</b> Unwin OF08 <b>Rear Tie Downs:</b> Unwin OR03 <b>Occupant Restraint:</b> MPG SORv1	<b>RESULTS</b>
<b>5.1 During the Test</b>	
a) Horizontal ATD and wheelchair excursion limits as per limits shown in Table 3:-	
Was the horizontal movement of the test wheelchair P- Point ( $X_{ss}$ ) less than 200 mm. ( $\pm 5$ mm)	Pass 46mm
Was the horizontal movement of the dummy Knee ( $X_{knee}$ ) less than 375 mm. ( $\pm 5$ mm)	Pass 200mm
Was the forward horizontal movement of the Dummy Head ( $X_{headF}$ ) less than 650 mm. ( $\pm 5$ mm)	Pass 361mm
Was the rearwards horizontal movement of the Dummy Head ( $X_{headR}$ ) greater than -450 mm. ( $\pm 5$ mm)	Pass 75mm
b) Was the ratio $X_{knee}/X_{ss} > 1.1:1$	PASS 4.3:1
c) Did the batteries of powered wheelchairs, or their surrogate parts:-	
I. move outside of the wheelchair footprint	Pass
II. move into the wheelchair user's space	Pass
<b>5.2 Post Test</b>	
a) Did the wheelchair remain upright on the test platform and did the ATD remain in a seated posture in the test wheelchair with a torso angle $> 45^\circ$	Pass
b) Did the wheelchair securement points show visible signs of material failure	Pass
c) Did any components of a mass greater than 100g become detached from the wheelchair	Pass
d) Did any occupant contactable components fragment or separate with an edge of less than 2mm	Pass
e) Did any primary load carrying components of the wheelchair show any visible signs of failure	Pass
f) Did any 'tilt in space' locking mechanisms show signs of failure	Pass
g) Was the ATD released from the wheelchair without the use of tools	Pass
h) Was the wheelchair released from the restraint system without the use of tools	Pass
i) Was the average decrease of H-Point height relative to the wheelchair platform less than 20% of the pre-test height	Pass 5%
j) Did the wheelchair and its components cause partial or complete failure of the webbing or any of the WTORS assemblies	Pass
<b>The wheelchair met the Dynamic Test requirements of ISO 7176-19:2008 as amended by EN12183:2014</b>	