

CLIENT CONFIDENTIAL

Client: **Alu Rehab**

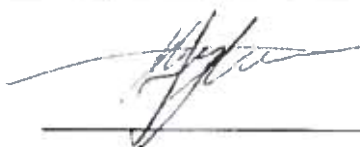

Test: **ISO 7176/19 Wheelchair test**

Test Item: **Netti 4UCEDS (30 kg)**

Occupant: **HII 50%ile**

Restraints: **(Wch) : Unwin**
(Occ) : Unwin

Millbrook Report No.:	MBK 09/0163
Millbrook Project No.:	CR0096-006-01
Millbrook Test No.:	S10689

Author :	 _____	G. Ayton Engineer
Approved :	 _____	K. Forinton Principal Engineer
Date :	3rd March 2009	

This test report shall not be reproduced, except in full, without written approval of the laboratory

Test Results
ISO/NP 7176/19
7th July 2008

Section 5.2 - Dynamic Performance Requirements

Wheelchair: Netti 4UCEDS (30kg)	Occupant: HII 50 %ile (75 kg)	RESULTS
5.2.1 During the Test		
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_{wc}) less than 200 mm (± 5 mm)		PASS 66 mm
Was the horizontal movement of the dummy knee (X_{knee}) less than 375 mm (± 5 mm)		PASS 264 mm
Was the horizontal movement of the dummy head (X_{head}) less than 650 mm (± 5 mm)		PASS 557 mm
b). Was the ratio $X_{knee}/X_{wc} > 1.1:1$		PASS 4:1
c). Not Measured		
Did the batteries of powered wheelchairs, or their surrogate parts:-		
i). move outside of the wheelchair footprint		N/A
ii). move into the wheelchair user's space		N/A
5.2.2 Post Test		
a). Did the wheelchair remain upright on the test platform Did the ATD remain in a seated posture in the test wheelchair with a torso angle less than 45°		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.		YES
Has the wheelchair satisfied the Dynamic Test requirements of ISO/FDIS 7176/19 of 7 July 2008		PASS