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### TEST DESCRIPTION

Test No.: S8571

Test Date: 25<sup>th</sup> February 2004

Test Type: ISO 7176/19

Wheelchair: Netti Mini 25


Orientation: Forward Facing

Seat Restraint : Q'Straint


Occupant: HIII 6YO

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Date : 11/03/04

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Date : 12/03/04

## Test Results

ISO/FDIS 7176/19

30<sup>th</sup> August 2001

### Section 5.2– Frontal Impact Performance Requirements

Wheelchair: 'Netti Mini 25'	Occupant: Hybrid III 6 Yr Old Child (23kg)	RESULTS
<b>5.2.1 During the Test</b>		
a). Horizontal ATD and wheelchair excursion limits as per limits taken from Table 1:-		
Xwc	Was the horizontal movement of the test wheelchair P- Point less than 150mm. ( $\pm 5$ mm)	PASS 51 mm
Xknee	Was the horizontal movement of the dummy knee less than 300mm. ( $\pm 5$ mm)	PASS 159 mm
Xheadf	Was the horizontal movement of the dummy head less than 450 mm. ( $\pm 5$ mm)	PASS 325 mm
Xheadr	Was the horizontal movement of the dummy head less than 300mm. ( $\pm 5$ mm)	Not Measured
b).	Was the ratio X knee/X wc >1.1	PASS 3.12
c).	Not Measured	
d).	Did the batteries of powered wheelchairs, or their surrogate parts:-	N/A
	i). move outside of the wheelchair footprint	N/A
	ii). move into the wheelchair user's space	N/A
<b>5.2.2 Post Test</b>		
a).	Did the wheelchair remain upright on the test platform	YES
	Did the ATD remain in a seated posture in the test wheelchair with a torso angle less than 45° to the vertical	YES
b).	Did the wheelchair securement points show visible signs of material failure	NO
c).	Did any components of a mass greater than 100g become detached from the wheelchair	NO
d).	Did any occupant contactable components fragment or separate with an edge of less than 2mm	NO
e).	Did any primary load carrying components of the wheelchair show any visible signs of failure	NO
f).	Did any 'tilt in space' locking mechanisms show signs of failure	NO
g).	Was the ATD released without the use of tools	YES
h).	Was the wheelchair released from the restraint system without the use of tools	YES
i).	Was the average decrease of H-Point height relative to the wheelchair platform less than 20% of the pre-test height.	YES 1%
Has the wheelchair satisfied the Dynamic Test requirements of ISO/FDIS 7176/19 of 30 <sup>th</sup> August 2001		YES



To Alu Rehab,

Following our conversation I understand that you have customers who are asking you to retest historic products to the latest standards.

Whilst this is of course possible there is a high cost implication and in the case of the tests you have carried out with us the final outcome of the test would be unchanged.

We cannot simply change the test reports we have sent to you to include the new test standard because obviously the tests were performed before this standard was released.

However, due to the changes in the standard being small I am confident to say that the wheelchairs tested under Millbrook test numbers S8569, S8571, S9415, and S9482 would have passed if tested against the latest version of ISO 7176/19.

Regards

A handwritten signature in black ink, appearing to read "K Forinton".

Kieran Forinton

Principal Engineer HyGE Sled

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