

## Test Results

ISO/FDIS 7176/19

30<sup>th</sup> August 2001

### Section 5.2 - Dynamic Performance Requirements

Wheelchair: SENSE	RESULTS
Occupant: Hybrid II Percentile (75kg)	
<b>5.2.1 During the Test</b>	
5.3.1 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. ( $\pm 5$ mm)	YES 100 mm
Was the horizontal movement of the dummy knee (X knee) less than 375 mm. ( $\pm 5$ mm)	YES 276 mm
Was the horizontal movement of the dummy head (X head) less than 650 mm. ( $\pm 5$ mm)	YES 353 mm
b). Was the ratio X knee/X wc $> 1.1$	YES 2.76
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>	
5.3.2 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 $45^\circ$	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 See note 1
d). Did any occupant contactable components fragment or separate with an edge of less than 2mm	NO See note 1
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
f). Was the wheelchair released from the restraint system without the use of tools	YES
h). Was the average decrease of H-Point height relative to the wheelchair platform less than 20% of the pre-test height.	YES 3%
Has the wheelchair satisfied the Dynamic Test requirements of ISO/FDIS 7176/19 of 31/August/2003	YES

Note 1 : Right foot rest support failed and produced an occupant contactable edge estimated to be greater than 2mm.