

Test Results Summary ISO 7176-19:2008

Test No: S18250 Test Date: 31/07/2023 Test Facility: Servosled at UTAC Millbrook Proving Ground Manufacturer: Alerta Medical Model: ADT-1300 Mass (kg): 21kg Occupant: HIII 50 th ile (Uninstrumented) Tie Down Restraint: Koller Excel 120 Combined	RESULTS
a) Did the wheelchair securement points show any sign of material failure other than deformation or yielding	PASS
b) Did any securement point deformation or distortion prevent manual removal of the wheelchair tie-down system	PASS
c) Was the wheelchair in an upright position on the test platform	PASS
d) Did the ATD remain in a seated posture at the end of the test (with a torso angle less than 45° to the vertical when viewed from any direction)	PASS
e) Did any rigid components, parts, equipment or accessories in excess of 150g detach during the test (related to the test article)	PASS
f) Did any occupant contactable components fragment or separate with an edge less than 2mm	PASS
g) Did any of the primary load carrying parts and components show visible signs of structural failure other than deformation or loading	PASS
h) Horizontal ATD wheelchair excursion limits as per limits shown in table 3 of 5.3.2:	PASS
i) Was the horizontal movement of the test wheelchair P-Point (Xwc) less than 200mm (±5mm)	22
ii) Was the horizontal movement of the dummy knee (Xknee) less than 375mm (±5mm)	304
iii) Was the horizontal movement of the dummy head (Xheadf) less than 550mm (±5mm)	456
iv) Was the rear head excursion (Xheadr) less than -400mm (±5mm) N/A as amended in EN12183	N/A
i) Was the ratio Xknee/Xwc > 1.1	13.82
j) Did any locking mechanisms of tilt seating systems release or have structural components that released during the test	PASS
k) Was the average decrease of H-Point height relative to the wheelchair platform less than 20% of the pre test height	PASS
l) Did the seating insert (seat or back support) detach from the wheelchair during the test	PASS
n) Did any of the tiedown and occupant restraint system fail due to interaction with the wheelchair or its components during the test	PASS
o) Did all securement hooks remain attached to the wheelchair's securement points throughout the test and remain attached at the end	PASS
p) Did the wheelchair-anchored belt restraints become detached at anchorages, disconnect at buckles, or show complete failure	PASS
ISO 7176-19:2008 Crash Test criteria fulfilled.	