

Test Results Summary

Test No: S15569 Test Type: ISO 7176-19:2008 as amended by EN12183:2014 Manufacturer: Karma Mobility Ltd. Model: Star2 Mass: 15 kg Seat Rail Angle: Fixed Seat Back Angle: Fixed Head Restraint: None Occupant: Hybrid II 50 th Percentile male (76.3kg) Front Tie Downs: Unwin OF02 Rear Tie Downs: Unwin OR03 Occupant Restraint: Millbrook Surrogate v1	RESULTS
5.1 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_{ss}) less than 200 mm. (± 5 mm)	Pass 43 mm
Was the horizontal movement of the dummy Knee (X_{knee}) less than 375 mm. (± 5 mm)	Pass 191 mm
Was the forward horizontal movement of the Dummy Head (X_{headF}) less than 650 mm. (± 5 mm)	Pass 426 mm
Was the rearwards horizontal movement of the Dummy Head (X_{headR}) greater than -450 mm. (± 5 mm)	N/A
b) Was the ratio $X_{knee}/X_{ss} > 1.1:1$	Pass 4.4:1
c) 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 Post Test	
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	N/A
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 19%
j) Did the wheelchair and its components cause partial or complete failure of the webbing or any of the WTORS assemblies	Pass
The 'Star2' wheelchair satisfied the dynamic test requirements of ISO 7176-19:2008 as amended by EN12183:2014	