Test Report



Test Results Summary ISO 7176/ANSI RESNA WC

Test No	130 / 1/0/ANSI KESIVA WC	
Test No	•	
Test Fa		
Client:	Drive DeVilbiss	
Wheeld		RESULTS
Mass (I	~~···=·	
Occupa	<u>-</u>	
	int: HIII 50th Ballast 77kg vn Restraint: Koller Excel 4 point + Titus passenger harness	
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 detatch 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 excusrsion limits as per limits shown in table 3 of 5.3.2:	PASS
	Was the horizontal movement of the test wheelchair P-Point (Xwc) less than 200mm (±5mm)	21mm
	Was the horizontal movement of the dummy knee (Xknee) less than 375mm (±5mm)	203mm
	Was the horizontal movement of the dummy head (Xheadf) less than 650mm	265mm
	(±5mm) Was the rear head excursion (Xheadr) less than -450mm (±5mm)	-288mm
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i)	Was the ratio Xknee/Xwc > 1.1	PASS
	Xknee/Xwc	9.67
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
I)	Did the seating insert (seat or back support) detatch from the wheelchair during the test	PASS
n)	Did any of the tiedown and occupant restrainst system fail due to interaction with	PASS
o)	the wheelchair or its components during the test Did all securement hooks remain attached to the wheelchair's securement points	PASS
	throughtout the test and remain attached at the end	rass
p)	Did the wheelchair-anchored belt restraints become detatched at anchorages, disconnect at buckles, or show complete failure	PASS
	ISO 7176/ANSI RESNA WC Crash Test criteria were fullfilled.	PASS
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Pre Test

Adjustment	Pre Test Measurement
Backrest Angle	84.3°
LH Hip To Floor Dimension	530 mm
B Post Height Above ATD Shoulder	175 mm
B Post Anchorage Aft Of ATD Shoulder	275 mm

Post Test

Test Pulse Criteria	Result	
Velocity Change	50.4 km/h	
Met Pulse Corridor?	YES	
Exceeds 20g for a cumulative time period of 15ms	YES	
Exceeds 15g for a cumulative time period of 40ms	YES	
Pulse Duration of at least 75ms	YES	

Criteria	Result
P Point <200mm	21mm
ATD Knee <375mm	203mm
ATD Head C of G Fwd Excursion <650mm	265mm
ATD Head C of G Rwd Excursion <-450mm	288mm
Ratio Knee To P Point > 1.1	9.67