

Transport Research Laboratory Impact Test Group

DYNAMIC RESTRAINT TEST REPORT

Customer:

Invacare (UK) Ltd

customer reference:

817005/S

test vehicle:

Apollo Indoor

Apollo Outdoor

test number:

04LM01-2

test type:

ISO/DIS 7176/19 (December1999)

test speed:

11:

48 km/h

test date:

5 June 2000

If you have any questions relating to this test please contact the Impact Test Group Manager:

Mr R A Stratford direct line + 44 (0)1344 770700 fax: + 44 (0)1344 770839 email: rstratford@trl.co.uk

switchboard: + 44 (0)1344 773131 fax: + 44 (0)1344 770356 website: http://www.trl.co.uk

S	Requireme	ents of S	Section 5		Result
	601	T		(i) wheelchair (X wc) < 200mm?	Yes 105
	5.3.1,a	Was	the horizontal movement of the:	(ii) dummy knee (X knee) < 375mm?	No 340
				(iii) dummy head (X head) < 650mm?	Yes 427
	5.3.1.d	Was	Was the ratio of X knee/X wc > 1.1?		
		(i)	Did the batteries move completely outside of the wheelchair footprint?		
		(ii)	Did the battery contact the back	No	
	5.3.2.a	(i)	Did the wheelchair remain in an upright position on the test platform?		Yes
		(ii)	Did the ATD remain in the wheelchair with its torso at an angle of less than 45 deg when viewed from any direction?		Yes
				9	Front = 2° Side = 31°
	5.3.2.b	Did	Did the wheelchair securement points show visible signs of material failure?		
	5.3.2.c	For	For manual tiedowns: Did the securement points show any deformation or distortion to prevent manual disengagement and removal tiedown end fittings?		
	5.3.2.d	Did	No		
L. C.	5.3.2.e	Did	No		
	5.3.2.f	Was	Yes		
	5.3.2.g	Was the wheelchair released from the tiedown system without the use of tools?			Yes
	5.3.2.h	Was	Yes		

Conclusion: The system met all the requirements of Sections 5.3.1 and 5.3.2 and thus gave a satisfactory impact performance.

Pass/Fail:	PASS
88.253.3434	

Analysed by:	A. Anyer	Date: 05/06/2005
--------------	----------	-------------------------