

03 MAR 1999



Transport Research Laboratory
Impact Test Group

DYNAMIC RESTRAINT TEST REPORT

Customer: Unwin Safety Systems/Radcliffe Rehabilitation Services

test vehicle: Netti 1

test number: T0107

test type: ISO/CD 7176/19-1 DATE 15 JAN 1997

test speed: 48 (+2, -0) km/h

test date: 9 December 1998

If you have any questions relating to this test please
contact your Project Manager:

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DYNAMIC RESTRAINT TEST FACILITY TEST REPORT

test date: 9 December 1998

TRL reference number: ITG 98095 (T0107)



report date: 14 December 1998

author: J M Britchford

customer: Unwin Safety Systems/ Radcliffe Rehabilitation Services

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Approvals	
Project Manager	
QARO	

REQUIREMENT of Section 6		RESULT
6.1/2	Did the ATD remain in the wheelchair and the wheelchair remain in an upright position on the sled?	Yes/Yes
6.3	Did any component with a mass in excess of 100gm detach?	No
6.4	Did any adjustable parts move from their pre-test positions?	No
6.5	Was there any leakage from the batteries?	N/A
6.6	Were the batteries retained in the W/C footprint?	N/A
6.7	Did any load bearing part of the wheelchair fracture completely?	No
6.8	Were any damaged surfaces less than 7mm wide?	No
6.9	Was the ATD released from the occupant restraint and removed from the wheelchair without the use of tools?	Yes
6.10	Was the tiedown system released from the sled without the use of tools?	Yes
6.11	Was the horizontal movement of the:	
	(i) wheelchair (X wc) < 200mm?	Yes – 80mm
	(ii) dummy knee (X knee) < 375mm?	Yes – 265mm
	(iii) dummy head (X head) < 650mm?	Yes- 643mm
6.12	Was the ratio of X knee/X wc > 1.1?	Yes – 3.3
6.13	Was the decrease of the mean H-point height < 20%?	Yes – 2.5%

Conclusion

The system did meet the requirements of 6.1/2 to 6.13 and hence the system gave a satisfactory impact performance.

Analysed by	<i>SMS</i>
Date	14/12/98



Date: 9/12/98

Run No: RCR02

