

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK



2721

Accredited to  
ISO/IEC 17025:2005

### Transport Research Laboratory (TRL)

Issue No: 008 Issue date: 07 November 2011

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Testing performed at the above address only

#### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Road Restraint Systems: Breakaway Device Poles Crash Cushions Longitudinal Barriers Parapets Support Structures for Road Equipment Terminals and Transitions Truck Mounted Attenuators/Lorry Mounted Crash Cushions Vehicle Security Barriers (inclusive of Street furniture) Work Zone Traffic Control Devices	Safety Performance Testing  Speed range: up to 110 km/hr (for vehicle masses up to 7.5 Tonnes, except for MASH where 2.27 Tonnes is maximum)  Vehicle acceleration: up to 750 g Vehicle angular velocity: up to 1000°/s  Angle: 0° to 165°  System deformations/deflections (and lateral displacement): up to 3.5 m  System operation: up to 200 000 cycles  Post impact vehicle movement (including assessment of vehicle trajectory and response): up to 30 m  Post impact vehicle penetration  Vehicle Cockpit Deformation Index (VCDI)  Assessment of debris produced (mass and dispersion)  Computed measurements from on board instrumentation:	EN 1317-1:1998 EN 1317-2:1998 Incorporating Amendment No: 1 EN 1317-3:2000 DD ENV 1317-4:2002 BS AU 228-lb:2002 ISO 6487:2002 BS AU 246:1992 ISO 10392:1992 BS EN 12767:2007 Incorporating Corrigendum of February 2008 NCHRP Report 350 AASHTO MASH:2009 Excluding Chapter 7, and Appendices B & D PAS 68:2007 PAS 68:2010 ASTM F2656-07 TD49/07 US OBO SGE500-08-R-0068 Sect 02844-1:Clause 1.2:Para B CWA 16221 October 2010 Sections 1 to 5 and annex O (excluding installation of the RRS, wherever referenced in the above specifications, as this will be the responsibility of the customer)



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As listed on Page 1	<p>Safety Performance Testing (cont'd)</p> <p>Theoretical Head Impact Velocity (THIV): Up to 44 km/hr Occupant Impact Velocity (OIV): up to 12 m/s</p> <p>Post Impact Head Deflection (PHD): up to 20 g Occupant Ride-down Acceleration (ORA): up to 20 g</p> <p>Acceleration Severity Index (ASI): Up to 1.9</p>	
Competition Vehicle Seats	<p>Sled-Mounted Impact Tests (Rearward and lateral)</p> <p>Max total mass: 2 tonnes</p> <p>(some tests include the use of Anthropomorphic Test Dummies)</p> <p>Deceleration: up to 600 g Load: up to 100 kN (3 axis) Displacement: up to 500 mm Velocity: up to 20 m/s Time: 0.5 ms to 125 s</p>	<p>FIA 8855:1999 ISO 6487:2002</p>
Child Restraint Systems (see exclusions)	<p>Safety Performance Testing (some tests include the use of Anthropomorphic Test Dummies)</p> <p>Distance: up to 2 m Time: up to 100 hours Temperature range: - 35 °C to 110 °C Relative humidity range: 30 %RH to 70 %RH Max mass: 1000 kg Angle: 0° to 360° Deceleration: up to 60 g (filtered) Velocity: up to 60 kph Force: up to 10 kN Counter: up to 50 000 cycles</p>	<p>UN ECE Regulation 44 excluding Clauses 7.2.3 (Retractors) 8.1.1 (Corrosion, salt spray) 8.2.5.2.2 (Light conditioning) 8.2.5.2.6 (Strap abrasion)</p>
	END	