

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>Accredited to ISO/IEC 17025:2005</b>	<b>mi Technology Group Ltd</b>	
	Issue No:023    Issue date: 23 September 2011	
	<b>Aston Way Leyland Preston Lancashire PR26 7TZ</b>	<b>Contact: Mr Simon Wilcock Tel: +44 (0)1772 422911 Fax: +44 (0)1772 621466 E-Mail: <a href="mailto:simon.wilcock@mi-technology.com">simon.wilcock@mi-technology.com</a> Website: <a href="http://www.mi-technology.com">www.mi-technology.com</a></b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> Aston Way Leyland Preston Lancashire PR26 7TZ	<b>Local contact</b> Mr Simon Wilcock  Tel: +44 (0)1772 422911 Fax: +44 (0)1772 621466 Email: <a href="mailto:simon.wilcock@mi-technology.com">simon.wilcock@mi-technology.com</a>	Environmental Testing Vehicle Systems Structural Testing Seat Performance Noise, Vibration and Harshness (NVH) Materials Testing	P (Permanent Laboratory)

#### Site activities performed away from the locations listed above:

Location details	Activity	Location code
Vehicle proving grounds, and customer test track facilities	Vehicle Systems Noise, Vibration and Harshness	S (Site Facilities)



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
AEROSPACE COMPONENTS, EQUIPMENT, MATERIALS AND STRUCTURES	<b>ENVIRONMENTAL TESTS</b> (non-explosive items)		
AGRICULTURAL EQUIPMENT	CLIMATIC Single Parameters		
COMPUTERS & PERIPHERALS	HIGH TEMPERATURE (Constant and cyclic)	BS EN 60068-2-2:2007 GM Specification GMW 14651 Clause 4.10 GM Specification GMW 14444 Clause 3.4.1	P
CONSTRUCTION PLANT AND EQUIPMENT	Max temp: + 120 °C Max chamber size: 3 m x 4 m x 6 m		
ELECTRICAL CABLES	LOW TEMPERATURE (Constant and cyclic)	BS EN 60068-2-1:2007 GM Specification GMW14109 Excluding 4.6.2	P
ELECTRICAL/ELECTRONIC PRODUCTS AND COMPONENTS	Min temp: - 40 °C Max chamber size: 3 m x 4 m x 6 m		
ELECTRO-MECHANICAL DEVICES	TEMPERATURE CHANGE (Thermal Shock) (Manual Transference Only)	BS EN 60068-2-14:2009	P
HYDRAULIC EQUIPMENT AND FITTINGS	Max temp: + 120 °C Min temp: - 40 °C Limiting chamber size: 1.0 m x 1.0 m x 1.0 m		
INSTRUMENTS: INDICATING/RECORDING			
MARINE EQUIPMENT MINING PLANT AND EQUIPMENT	HIGH HUMIDITY (Steady State)	BS EN 60068-2-78:2002 IEC 60068-2-78:2001	P
MOTOR VEHICLES	Temp range: + 25 °C to + 55 °C Humidity range: 20 % to 98 % rh Max chamber size: 3 m x 4 m x 6 m		
MOTORS: ELECTRICAL AND HYDRAULIC			
PLASTICS AND PRODUCTS			
PRINTED CIRCUIT BOARDS			
STRUCTURES, COMPONENTS AND FITTINGS			



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Continued from Page 2  TELECOMMUNICATION EQUIPMENT	<b><u>ENVIRONMENTAL TESTS</u></b> (non-explosive items) (cont'd)		
	HIGH HUMIDITY (Cyclic)  Temp range: + 25 °C to + 55 °C Humidity range: 20% to 98% rh Max chamber size: 3 m x 4 m x 6 m	BS EN 60068-2-30:2005 GM Specification GMW 14444 Clause 3.4.1	P
	<b><u>SAMPLE DEFORMATION</u></b>		
	GOM Tritop Photogrammetric evaluation	Documented In-House Procedure SEA018	P
	<b><u>INGRESS PROTECTION</u></b>		
	DUST  Max chamber size: 1.0 m x 1.0 m x 1.0 m  IP5X Dust protected  IP6X Dust protected	BS EN 60529:1992	P
WATER  IPX1 Protected against dripping water  IPX2 Protected against dripping water when tilted up to 15°  IPX3 Protected against spraying water  IPX4 Protected against splashing water  IPX5 Protected against water jets  IPX6 Protected against heavy seas	BS EN 60529:1992	P	



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As listed on Pages 2 & 3	<b><u>INGRESS PROTECTION</u></b> (cont'd)		
	WATER (cont'd)		
	IPX7 Protected against the effects of immersion		
	IPX8 Protected against submersion		
	<b><u>MATERIALS TESTING</u></b>		
INTERNAL MATERIALS - AUTOMOTIVE, AEROSPACE, RAIL, MARINE, etc	FLAMMABILITY <i>Polymeric Interior Materials Horizontal Test Method</i>	Documented In-House Procedure TC 1200 008 based on the following; SAE J 369:May 2003 Rev ISO 3795:1989 BS AU 169a:1992 GM Specification GMW 3232 FMVSS 302:1991 NES M0094:2008	P
	CROCKING TESTING <i>Greyscale evaluation against either ISO 105-A02 or AATCC scales</i>	Documented In-House Procedure TC1200-006 based on Ford FLTM BN107-01 <i>Excluding fabric and thread testing</i>	P
	SCRATCH RESISTANCE	Documented In-House Procedure TC1200-005 based on Ford FLTM BN108-13 <i>Visual Examination Only</i>	P
	TABER ABRASION	Documented In-House Procedure TC1200-003 based on Ford FLTM BN 108-02, ASTM D 4060-07 and SAE J948	P
	SCUFFING RESISTANCE	Documented In-House Procedure TC1200 004 based on Ford FLTM BN 108-04 SAE J365:2004	P



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	<b><u>MATERIALS TESTING</u></b> (cont'd)		
	PAINT ADHESION	Documented In-House Procedure TC 1200 007 based on Ford FLTM BI 106-01 <i>Excluding Method A</i>	P
COATED PARTS, FASTENERS, BODY & WHITE SECTIONS	SALT SPRAY TESTING <i>Max chamber size: 0.6m x 1.0m x 1.3m</i>	Documented In-House Procedure TC 1200 001 based on ASTM B117-09 DIN 50 021-S5:1988 ISO 9227:2006 RTCA DO-160F, Section 14	P
TRIM SECTIONS	Temp Range : 25 °C to 45 °C TENSILE TESTING 180° Peel Adhesion Strength Test <i>Tension loads up to 5kN</i>	Documented In-House Procedure TC 1200 002 based on Ford FLTM BN 151-05	P
VEHICLES IN EEC & ECE CATEGORIES M1, M2, M3, N1, N2, N3 O1, O2, O3, O4	<b><u>VEHICLE SYSTEMS TESTS</u></b> AUTOMOTIVE BRAKE DEVICES AND BRAKING SYSTEMS (Type approval testing)  Utilising test track circuit and SAC dynamometer	EC DIRECTIVES  - 71/320/EEC as last amended by - 2002/78/EC, excepting Annex VII, Appendix I, Part 3.2 Annex XII Annex XV Appendix 2, Part 2.2  ECE REGULATION 13.10 excepting Annex 11, Appendix 2, Part 3.2 Annex 12 Annex 15  ECE REGULATION 13.10 (to Draft Supplement 3) Annex XIII (ABS)	S



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	<b><u>VEHICLE SYSTEMS TESTS</u></b> (cont'd)		
	Automatic Braking System (ABS) test only	EEC Directives - 71/320/EEC Annex X (ABS) - 2002/78/EEC (Consolidated Braking Directive, Annex X (ABS))	S
	REPLACEMENT BRAKE LINING ASSEMBLIES	ECE REGULATION 90 Annex 3 (M1, M2, N1 vehicles)	S
	VEHICLES WITH AIRBRAKE SYSTEMS	FMVSS 121 (USA) (excluding FMVSS 121D) CMVSS 121 (Canada)	S
	LIGHT VEHICLE BRAKING SYSTEMS	FMVSS 135 (USA)	S
	STEERING EQUIPMENT PERFORMANCE  (Motor Vehicles & Trailers)	EEC DIRECTIVE - 70/311/EEC as last amended by - 1999/7/EC	S
	MASSES AND DIMENSIONS	EEC DIRECTIVE - 75/321/EEC as last amended by - 98/39/EC  ECE REGULATION 79  EEC DIRECTIVE - 97/27/EC as last amended by - 2001/85/EC	P, S



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AEROSPACE COMPONENTS, EQUIPMENT, MATERIALS AND STRUCTURES	<b><u>STRUCTURAL TESTS</u></b>  STATIC TESTS  Static/Low Frequency (Purpose Built Reaction frames) Ambient or high/low temperatures using either standard or pre-fabricated chambers Max specimen size: 20 m x 5 m x 5 m (L x W x H) Max Single Force: 250 kN (Hydraulic actuators) Max Temp: 120 °C Min Temp: - 40 °C	Documented In-House Procedures (as agreed with customers)	P
AGRICULTURAL EQUIPMENT			
COATED PARTS, FASTENERS BODY IN WHITE SECTIONS			
CONSTRUCTION PLANT AND EQUIPMENT			
ELECTRICAL/ELECTRONIC PRODUCTS AND THEIR COMPONENTS	Properties measured: Displacement, Mechanical Strain, Acceleration, Pressure, Force		
INSTRUMENTS: INDICATING AND RECORDING			
MARINE EQUIPMENT	<b>FATIGUE TESTS (MECHANICAL)</b>	Documented In-House Procedures (as agreed with customers)	P
MINING PLANT & EQUIPMENT	Sinusoidal, Random, Synthesised and Road Load Data Purpose Built Reaction Frame Max specimen size: 20 m x 5 m x 5 m (L x W x H) Max Force: 200 kN Max Freq: 50 Hz (force/stiffness dependent)		
MOTOR VEHICLES			
STRUCTURES, COMPONENTS & FITTINGS			
TRIM SECTIONS			
VEHICLES IN EEC & ECE CATEGORIES M1, M2, M3 N1, N2, N3 O1, O2, O3, O4	<b>ENDURANCE TESTS (MECHANICAL)</b>  Purpose Built Rigs Utilising Pneumatic/Hydraulic/Electric Actuators Measurement of: Force (Static and Dynamic), Displacement, Strain, Frequency Cycles Completed, at Failure	Documented In-House Procedures (as agreed with customers)	P



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As previous pages	<p><b><u>STRUCTURAL TESTS</u></b> (cont'd)</p> <p><b>DYNAMIC TESTS</b></p> <p>Vibration (Hydraulic) Sinusoidal, Random, Sine on Random, Road Load Data with Slip Table Facilities Using Standard and Pre-Fabricated Temperature Chambers as necessary Frequency Range: 1 to 350 Hz</p> <p>Maximum Peak Thrust: 250 kN Maximum Payload: 3500 kg Maximum Displacement: 250 mm (pk/pk) Temperature Range: - 40 °C to + 120 °C</p> <p><b>REAR UNDERRUN/FUEL TANKS</b></p> <p><b>TOWING DEVICES (Stability)</b></p> <p><b>AIR SPRING/DAMPER DURABILITY</b></p> <p>(Motor Vehicle Suspension Components)</p> <p>Temperature range: -40°C to +100°C</p>	<p>Documented In-House Procedures (as agreed with customers)</p> <p>EEC DIRECTIVE - 70/221/EEC as last amended by - 2000/8/EC ECE Regulation 58</p> <p>EEC DIRECTIVE - 77/389/EEC Annex II to - 96/64/EEC</p> <p>Documented In-House Procedure TC 511 001</p> <p>Delphi Automotive Test Specifications CTP-SV/TS/99/029-006:2000 CTP-SV/TS/99/098-003:2001 CTP-CE/TS/36/096:2004 CTP-CE/TS/36/097:2004</p>	<p>P</p> <p>P</p> <p>P</p> <p>P</p>



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BODYSHELLS CENTRE CONSOLES COMPUTERS & PERIPHERALS ELECTRICAL CABLES ELECTRICAL EQUIPMENT GEAR ASSEMBLIES PAS EQUIPMENT PLASTICS AND PRODUCTS PRINTED CIRCUIT BOARDS RESONATORS/EXPANSION TANKS ROOF CONSOLES ROOF LINERS SIGNALLING EQUIPMENT STEERING ASSEMBLIES SUB-SEA CONNECTORS TELECOMMUNICATION EQUIPMENT TURBOCHARGERS	<p><b><u>VIBRATION TESTS</u></b> (non-explosive items)</p> <p>DYNAMIC</p> <p>VIBRATION (electromagnetic) Sine, random, broadband random, swept sine, fixed sine dwell, sine-on-random, random-on-random - with slip table facility</p> <p>(a) Ambient Temperature</p> <p>Freq range: 2.5 to 3150 Hz Max peak thrust: 27 kN Max payload (vertical): 454 kg</p> <p>Max payload (horizontal): Horizontal pay load (LDS 824) = [16,600 / (75 + X)] kg</p> <p><i>Where X = mm distance from payload mounting face to CoG of Load</i></p> <p>Max displacement: 25.4 mm pk-pk</p> <p>(b) High/Low Temperature (Standard Enclosure)</p> <p>Ranges as above,</p> <p>Max temp: + 120 °C Min temp: - 40 °C Chamber size: 0.8 m x 0.8 m x 0.8 m</p>	<p>DEF STAN 00-35, Chapter 2-01:1997 BS EN 60068-2-6:2008 BS EN 60068-2-64:2008 IEC 60068-2-64:1993 IEC 68-2-6:1995 BS 3G100:Part 2: Subsection 3.1:1969(1983) RTCA DO 160E:8.0:2004</p> <p>DEF STAN 08-123:2000 Data Sheet 25 (externally generated)</p> <p>DEF STAN 07-55:1983 Test A1 Test A2 MIL-STD 810F:2001 Method 514.5 Method 519.5</p>	<p>P</p>



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As listed on Page 9	<p><b><u>VIBRATION TESTS</u></b> (non-explosive items) (cont'd)</p> <p><b>SHOCK</b></p> <p>Classical shock with half sine, initial and terminal peak sawtooth, trapezoidal, and rectangular pulse shape</p> <p>- Horizontal &amp; Vertical half sine, sawtooth Max item mass: 454 kg</p> <p>- ambient &amp; with temperature (prefabricated enclosure)</p> <p>Severity: 1 g to 210 g Duration: 1 ms to 70 ms (severity dependent)</p> <p>Max temp: + 100 °C Min temp: - 40 °C</p>	<p>DEF STAN 00-35 Chapters 2-03, 2-06 and 2-07:1997 RTCA DO 160E:7.0:2004 BS EN 60068-2-27:2009 IEC 68-2-27:1987 DEF STAN 07-55:1983 Test A3 MIL-STD 810F:2001 Method 516.4 DEF STAN 08-123:2000 Data Sheet 28</p>	P
	<p><b>BUMP</b></p> <p>- ambient &amp; with temperature (prefabricated enclosure)</p> <p>Max item mass: 454 kg Max temp: + 100 °C Min temp: - 40 °C</p>		
	<p><b><u>SEAT PERFORMANCE TESTS</u></b></p> <p><b>OCCUPANT INGRESS/EGRESS</b></p> <p>Manual &amp; Automated using purpose built robots</p>	Ford SDS ST-0035	P
	SEATS AND THEIR COMPONENTS	<p><b>PRESSURE MAPPING</b></p>	Documented In-House Procedure TC 1000 002



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SEATS AND THEIR COMPONENTS (cont'd)	<b><u>SEAT PERFORMANCE TESTS</u></b> (cont'd)		
	AIRBAG DEPLOYMENT		
	Temperature range: - 40 °C to + 125 °C	Ford AA-0001, 0002, 0013, 0015, and 0034	P
	PERFORMANCE CHECKS		
	a) Manual Seats - Force (Operating Efforts) - Displacement - Free Play - Co-ordinates (H-Point) using FARO arm	Ford SDS Specs Nissan NDS Specs Toyota TSF Specs Land Rover LRES Specs GM Specification GMW14109 Excluding 4.6.2	P
b) Powered Seats - Voltage - Current - Operating noise - Co-ordinates (H-Point) using FARO arm	Ford SDS ST-0010v6	P	
DURABILITY			
Manual & Powered Seats - Track - Height - Recline - Lumbar - Head-rest - Tilt	Ford SDS Specs Nissan NDS Specs Toyota TSF Specs Land Rover LRES Specs	P	
MECHANICAL FATIGUE			
Using purpose built reaction frames, with sinusoidal, random, synthesised, and road load data control inputs	Ford SDS Specs Nissan NDS Specs Toyota TSF Specs Land Rover LRES Specs	P	
Max force: 200 kN Max frequency: 50 Hz  (force/stiffness dependent)			



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SEATS AND THEIR COMPONENTS	<b><u>SEAT PERFORMANCE TESTS</u></b> (cont'd)		
	TRIM  Seat system material wear	Ford SDS Specs Nissan NDS Specs Toyota TSF Specs Land Rover LRES Specs	P
	STRENGTH  Static/low frequency (using purpose built reaction frames)  Temperature range: - 40 °C to + 125 °C (using standard or prefabricated chambers) Max specimen size: 20 m x 5 m x 5 m (L x W x H) Max single force: 250 kN  Properties measured: displacement, mechanical strain, acceleration, pressure, force	Ford SDS Specs Nissan NDS Specs Toyota TSF Specs Land Rover LRES Specs	P
	HEATED SEAT DURABILITY AND PERFORMANCE CHECKS  Temperature range: - 40 °C to + 125 °C (using standard chambers)	Ford SDS ST-0087	P



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SEATS AND THEIR COMPONENTS	<b><u>SEAT PERFORMANCE TESTS</u></b> (cont'd)		
	VIBRATION DURABILITY  Using 6-axis shaker table Max payload: 2500 kg	Ford SDS ST-0009	P
VEHICLES IN EEC & ECE CATEGORIES M1, M2, M3, N1, N2, N3, O1, O2, O3, O4	VIBRATION TRANSMISSIBILITY  Using purpose built rig	Ford SDS ST-0784	P
	<b><u>NOISE TESTS</u></b>		
	Motor Vehicles and Exhaust Systems MOTOR VEHICLE NOISE LEVELS (All vehicles in Categories M and N)	EEC DIRECTIVE - 70/157/EEC as last amended by - 1999/101/EC  Vehicle Standard (Australian Design Rule 83/00 - External Noise) 2005	S
	(Agricultural or Forestry Tractors)	EEC DIRECTIVE - 74/151/EEC, Annex VI	S
	PERMISSIBLE SOUND LEVEL AND EXHAUST SYSTEMS OF 2 AND 3 WHEEL MOTOR VEHICLES (Category L)	EEC DIRECTIVE 97/24/EEC; - Chapter 9	S
	MOTOR VEHICLE NOISE LEVELS (Categories M and N)	EPA Part 205 (USA, Truck and Bus) TRIAS 20:1996 (Japan, Passenger Car)	S
	NOISE EMISSIONS (Categories M and N)	ECE REGULATION 51 ECE REGULATION 59 Vehicle Standard (Australian Design Rule 83/00 - External Noise) 2005	S



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VEHICLES IN EEC & ECE CATEGORIES M1, M2, M3, N1, N2, N3, O1, O2, O3,O4	<b><u>NOISE TESTS</u></b> (cont'd)		
	REPLACEMENT SILENCER SYSTEMS (All vehicles in Category L)	ECE REGULATION 63 ECE REGULATION 41 ECE REGULATION 9 ECE REGULATION 92	S
	AGRICULTURAL TRACTORS DRIVER PERCEIVED NOISE LEVELS	EEC DIRECTIVE - 77/311/EEC, Annex II to - 97/54/EC	S
	SILENCER PULSATION (Categories M and N)	EEC DIRECTIVE - 70/157/EEC to - 1999/101/EC ECE REGULATION 51 ECE REGULATION 59	P
POWER GENERATORS	SOUND POWER MEASUREMENT	BS EN ISO 3744:1995 as amended by Noise Code 45 of Directives 2000/14/EC and 2005/88/EC	P
END			