Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



Type of test/Properties Standard specifications/ Materials/Products tested measured/Range of measurement Equipment/Techniques used 1 EMC Tests Motor Vehicles Motor Vehicle Accessories and Components 1.1 Automotive EMC Tests Bicycles (powered) Construction Plant and Equipment 1.1.1 Conducted Emissions CISPR 25:Section 3:1995 Electrical/Electronic Components 9 kHz to 200 MHz CISPR 25:2002 Electrical/Electronic Products CISPR 25:2008 Electro-mechanical Devices BS EN 55025:2003 Electronic Products, Digital (CISPR 25:2002) Section 6 Generators: Power BS EN 55025:2017 Industrial Trucks BS EN IEC 55025:2022 GBT 18387:2008 Lawnmowers ECE Regulation 10.04:2012 **Rescue Appliances** Vehicle Security Devices Annex 13 & 14 Military Vehicles and Devices ECE Regulation 10.05: 2014 Annex 19 & 20 ECE Regulation 10.06: 2019 Annex 13, 14, 19 & 20 1.1.2 Magnetic Emissions GBT 18387:2008 9 kHz to 30 MHz GBT 18387:2017 Whole Vehicle BS EN IEC 55036:2020 BS EN 55036:2020 +A1:2023 1.1.3 Radiated Emissions CISPR 12:2001 9 kHz to 26.5 GHz CISPR12:2007 including A1:2009 CAN/CSA-CISPR12-10 Whole vehicle and ICES-002:2016 components ICES-002:2020 GB 14023-2011 CISPR 25:Section 2:1995 CISPR 25:2002 CISPR 25:2008 BS EN 55025:2003 BS EN 55025:2017 BS EN IEC 55025:2022

DETAIL OF ACCREDITATION



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Page 1	 EMC Tests (cont'd) 1.1 Automotive EMC Tests (cont'd) 1.1.3 Radiated Emissions (cont'd) 9 kHz to 26.5 GHz Whole vehicle and Components (cont'd) 	GBT 18387:2008 GBT 18387:2017 ECE Regulation 10.01 ECE Regulation 10.02:1997 ECE Regulation 10.03:2010 ECE Regulation 10.04:2012 ECE Regulation 10.05:2014 Annexes 4, 5, 7 and 8 ECE Regulation 10.06:2019 Annexes 4, 5, 7 and 8 2000/2/EC 95/54/EC, Annexes IV, V, VII and VIII 2004/104/EC, Annexes IV, V, VII and VIII 97/24/EC, Chapter 8 Annexes II, III, V, VI SAE J551/2:1994 SAE J551/4:1994 SAE J1113-41:1995
	1.1.4 Transient Testing DC and AC supply construction and coupling Exported Transients	ISO 7637-1:1990 ISO 7637-2:1990 ISO 7637-1:2002 ISO 7637-1:2015 ISO 7637-1:2023 ISO 7637-2:2004 ISO 7637-2:2011 2004/104/EC Annex X ISO 7637-3:1995 ISO 7637-3:2007 ISO 7637-3:2016 ECE Regulation 10.04:2012 ECE Regulation 10.05:2014 Annexes 10 ECE Regulation 10.06:2019 Annexes 10



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Materials/Products tested As listed on Page 1		
	1 GHz to 18 GHz: 250 V/m (with 1.2 GHz to 1.4 GHz, 2.7 GHz to 3.1 GHz and	SAE J1113-21:1998 95/54/EC, Annexes VI, IX 2004/104/EC Annexes VI, IX 2000/2/EC ECE Regulation 10.02:1997 ECE Regulation 10.03:2010 ECE Regulation 10.04:2012 ECE Regulation 10.05:2014 Annexes 6 and 9 ECE Regulation 10.06:2019 Annexes 6 and 9 ECE Regulation 13.08 97/24/EC, Chapter 8, Annexes IV, VII SAE J551/11:1994 SAE J551/13:1994



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Page 1	 1 EMC Tests (cont'd) 1.1 Automotive EMC Tests (cont'd) 	
	1.1.6 Electrostatic Discharge Up to 25 kV	ISO TR 10605/E:1994 (Component and whole vehicle) ISO 10605:2001 ISO 10605:2008 + Corr 1:2010 BS ISO 10605:2008 including Amendment A1:2014 ISO 10605: 2023 Ford L-410, Section 4.3:12/96 SAE J551/15:1994 SAE J1113-13:1997
	1.1.7 Conducted Immunity 150 kHz to 400 MHz, 10 V	ISO 11451-4:1995 ISO 11451-4:2013 ISO 11451-4:2022 (excluding TWC) ISO 11452-4:1995 ISO 11452-4:2005 ISO 11452-4:2011 excluding TWC test method ISO 11452-4:2020 excluding TWC test method SAE J1113-4:1998
	1.1.8 Magnetic Field Immunity Up to 900 A/m	ISO 11452-8:2007 ISO 11452-8:2015
	1.1.9 Harmonics & Flicker	ECE Regulation 10.04:2012 ECE Regulation 10.05: 2014 Annex 11, 12, 17 & 18 ECE Regulation 10.06: 2019 Annex 11, 12, 17 & 18
	1.1.10 Burst & Surge	ECE Regulation 10.04:2012 ECE Regulation 10.05:2014 Annex 15, 16, 21 & 22 ECE Regulation 10.06:2019 Annex 15, 16, 21 & 22



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Page 1	 1 EMC Tests (cont'd) 1.2 Sub System Military EMC Tests 	
	1.2.1 Conducted Emissions 20 Hz to 200 MHz	DEF STAN 59-41:Part 3:1995 DCE01 and DCE02 DEF STAN 59-41:Part 3: 2003 DCE01.3 and DCE02.3
		DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 DCE01 and DCE02
		DEF STAN 59-411: Part 3 Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 DCE01.B, DCE02.A, DCE02.B and DCE03.B MIL STD 461F:2007 CE101 and CE102 MIL STD 461G:2015 CE101 and CE102
	1.2.2 Radiated Emissions 9 kHz to 40 GHz	DEF STAN 59-41:Part 3:1995 DRE01 and DRE03 DEF STAN 59-41:Part 3: 2003 DRE01.3 and DRE03.3 DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 DRE01 DRE03 and DRE04 DEF STAN 59-411: Part 3 Issue 1: 2007, A1:2008 & Issue 2:2014 &
		Issue 3:2019 DRE01.A, DRE01.B, DRE03.A and DRE03.B MIL STD 461E:1999, RE102 MIL STD 461F:2007, RE102 MIL STD 461G:2015 RE102



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Page 1	1 EMC Tests (cont'd) 1.2 Military EMC Tests (cont'd)	
	 1.2.3 Radiated Immunity Component: 0 kHz to 10 MHz: 356V/m 10MHz to 1GHz: 200 V/m 1 GHz to 18 GHz: 200 V/m (with 1.2 GHz to 1.4 GHz, 2.7 GHz to 3.1 GHz and 4 GHz to 10 GHz: 600 V/m) 	DEF STAN 59-41:Part 3:1995 DRS02 DEF STAN 59-41:Part 3: 2003 DRS02.3 DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 DRS02 DEF STAN 59-411: Part 3 Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 DRS02.A and DRS02.B MIL STD 461E:1999, RS103 MIL STD 461F:2007, RS103 MIL STD 461G:2015 RS103
	1.2.4 Electrostatic Discharge Up to 25 kV	DEF STAN 59-41:1995 & 2003 DCS10 DEF STAN 59-41:Part 3:2003 DCS10.3 DEF STAN 59-411: Part 3 Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 DCS10.A and DCS10.B MIL STD 461G:2015, CS118
	1.2.5 Conducted Immunity 20 Hz to 400 MHz and 10 V	DEF STAN 59-41:Part 3:1995 DCS02 & DCS03 DEF STAN 59-41:Part 3: 2003 DCS02.3 & DCS03.3 DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 High level bulk current injection DEF STAN 59-411: Part 3 Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 DCS01, DCS02.A, DCS02.B, DCS03, -DCS05 & DCS06 MIL STD 461F:2007 CS101, CS114, CS115 & CS116 MIL STD 461G: 2015 CS101, CS114, CS115 & CS116



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As listed on Page 1	1 EMC Tests (cont'd) 1.2 Military EMC Tests (cont'd)	
	1.2.6 Power Frequency Magnetic Field Immunity Frequency: 20 Hz to 100 kHz	DEF STAN 59-41:Part 3:1995 DRS01 DEF STAN 59-41:Part 3:2003 DRS01.3 DEF STAN 59-411: Part 3 Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 DRS01.A, DRS01.B & DRS03 MIL STD 461F: 2007 RS101 MIL STD 461G:2015 RS101
	1.2.7 H-Field Emissions: 20 Hz to 100 kHz	DEF STAN 59-41:Part 3:1995 DRE02 DEF STAN 59-41:Part 3:2003 DRE02.3 DEF STAN 59-411: Part 3 Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 DRE02.A and DRE02.B MIL STD 461F:2007RE101 MIL STD 461G:2015 RE101
	1.2.8 Electrical Transients Frequency: 20 Hz to 150 Hz	DEF STAN 59-411: Part 3 Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 DCE03
	1.3 Platform Military EMC Tests1.3.1 Conducted Emissions 20 Hz to 150 MHz	DEF STAN 59-41:Part 3:1995 DCE01 and DCE02 DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 Section B2.2 DCE01 and DCE02



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As listed on Page 1	 EMC Tests (cont'd) 1.3 Platform Military EMC Tests (cont'd) 	
	1.3.2 Radiated Emissions 9 kHz to 40 GHz	MIL STD 461E:1999 RE102 MIL STD 461F:2007 RE102 MIL STD 461G:2015 RE102 DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 Section B2.3 DRE01, DRE03 and DRE04
	1.3.3 Radiated Immunity	MIL STD 461E:1999 RS103 MIL STD 461F:2007 RS103 MIL STD 461G:2015 RS103
	 Whole vehicle: 10 kHz to 30 MHz: 150 V/m 30 MHz to 40 MHz: 100 V/m 40 MHz to 1 GHz: 200 V/m 1 GHz to 18 GHz: 250 V/m (with 1.2 GHz to 1.4 GHz, 2.7 GHz to 3.1 GHz and 4 GHz to 10 GHz: 600 V/m) 	DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 Section B2.6.2 Low Level Swept Current DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 Section B2.6.5 Radiated Immunity DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 Section B2.8 Mutual Interference
	1.3.4 Electrostatic Discharge Up to 25 kV	DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 DCS10 MIL STD 461G:2015 CS118



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As listed on Page 1	 1 EMC Tests (cont'd) 1.3 Platform Military EMC Tests (cont'd) 1.3.5 Conducted Immunity 	DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019
	20 Hz to 400 MHz	Section B2.6.3 High Level Bulk Current Injection DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 Section B2.5 DCS01, DCS02, DCS03, DCS05 & DCS06 MIL STD 461F:2007 CS114 MIL STD 461G:2015 CS114
	1.3.6 Power Frequency Magnetic Field Immunity 20 Hz to 100 kHz	DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 Section B2.7 DRS01
	H-Field Emissions: 20 Hz to 100 kHz	DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 Section B2.4 DRE02
		MIL STD 461F:2007 RE101 MIL STD 461G:2015 RE101
	1.3.7 Electrical Transients 20 Hz to 150 Hz	DEF STAN 61-5: Part 6: Issue 6:February 2009 Annexes A and B (All Sections)
	1.3.8 Earth Bonding	DEF STAN 59-411:Part 4: Issue 1: 2007, A1:2008 & Issue 2:2014 & Issue 3:2019 Section B.3 Earth Bonding



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As listed on Page 1	1 EMC Tests (cont'd) 1.4 Civil EMC Tests	
	1.4.1 Conducted Emissions 9 kHz to 30 MHz	EN 55011:1998 EN 55014-1:1997
		BS EN 55016-2-1:2009 + A2 2013 BS EN 55016-2-1:2014 + A1:2017 Excluding telecom ports according to Clause 9.5 EN 55022:1998 EN 55022:2010 BS EN 55032: 2012 BS EN 55032: 2015 + A1:2020 FCC CFR 47:Part 15B:2008 ANSI C63.4:2003
	1.4.2 Radiated Emissions 30 MHz to 6 GHz 30 MHz to 40 GHz	BS EN 55016-2-3:2010 + A2 2014 BS EN 55016-2-3:2017 + A1:2019 BS EN 55016-2-3: 2017 + A1:2019 + A2:2023 EN 55022:1998 EN 55022:2010 BS EN 55032:2012 BS EN 55032:2015 + A1:2020 FCC CFR 47:Part 15B:2008 ANSI C63.4:2003
	1.4.3 Transient Testing DC and AC supply EFT/Burst, Surge & Voltage Dips, Interuptions and Variations	EN 61000-4-4:1995 BS EN 61000-4-4:2004 BS EN 61000-4-4:2012 BS EN 61000-4-5:2006 BS EN 61000-4-5:2014 including Amendment A1:2017 BS EN 61000-4-11:2004 + A1 2017 IEC 61000-3-12: 2011 + A1:2021



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Page 1	 1 EMC Tests (cont'd) 1.4 Civil EMC Tests (cont'd) 1.4.4 Harmonics & Flicker 	BS EN 61000-3-2: 2006 + A2 2009
		BS EN 61000-3-2: 2014 BS EN 61000-3-2: 2019 (Excluding Class C) BS EN 61000-3-2: 2019 + A1:2021 BS EN 61000-3-3: 2008 BS EN 61000-3-3: 2013 + A1: 2019 + A2:2021 BS EN 61000-3-11: 2001 BS EN 61000-3-11: 2019 BS EN 61000-3-12: 2005 BS EN 61000-3-12: 2011
	1.4.5 Radiated Immunity 80 MHz to 6 GHz	BS EN 61000-4-3:1997 BS EN 61000-4-3:2006 including Amendment A1:2008 & A2:2010 BS EN IEC 61000-4-3:2020
	1.4.6 Electrostatic Discharge Up to 25 kV	BS EN 61000-4-2:1995 including Amendments A1:1998 and A2:2001 BS EN 61000-4-2:2009
	1.4.7 Conducted Immunity 150 kHz to 400 MHz and 10 V	BS EN 61000-4-6:1996 including Amendments A1, A2, & A3:2005 BS EN 61000-4-6:2009 BS EN 61000-4-6:2014
	1.4.8 Power Frequency Magnetic Field Immunity Frequency: 50 Hz Field Strength: Up to 100 A/m	IEC 1000-4-8:1993 BS EN 61000-4-8:1994 BS EN 61000-4-8:2010



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As listed on Page 11EMC Tests (cont'd)1.5EMC TestsEN 55014-2:1997 CISPR 14-2:1997These Generic and Product specific specifications are included in this schedule, but limited to those referred basic standards that are explicitly listed in Sections 1.4.1 to 1.4.8.EN 61000-6-1:2001 BS EN 61000-6-2:2001 BS EN 61000-6-2:2001 BS EN 61000-6-2:2001 BS EN 61000-6-3:2001 BS EN 61000-6-3:2001 BS EN 61000-6-3:2001 DB SE N 61000-6-3:2001 DB SE N 61000-6-3:2021 EN 61000-6-4:2019 BS EN 1EC 61000-6-4:2019 BS EN 12895:2015 including Amendment A1:2011 EN 61000-6-4:2019 BS EN 12895:2015 including Amendment A1:2011 BS EN 1S0 14982:1998 BS EN 1S0 14982:1998 BS EN 1S0 14982:2009 ISO 13766-1:2018 BS EN 1S0 13766-1:2018 BS EN 1320:1996 IEC 61326:1997 (Immunity only) EN 13309:2000	Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
EN 301 489-1:V1.4.1:2002 EN 301 489-3:V1.4.1:2002 72/245/EEC 75/322/EEC 2009/64/EC EN 50498:2010 ISO 16750-2:2003 ISO 16750-2:2012 ISO 16750-2:2023 ECE Reg 97, Annex 7 Section 1 95/56/EC Annex IV 3.2, 5.2.12 and 8.2 ECE Reg 116, Rev 2, Annex 9, ISO 13309:2010 ECE Reg 161, Annex 7 ECE Reg 162, Annex 7 ECE Reg 163, Annex 7		 EMC Tests (cont'd) EMC Tests EMC Tests These Generic and Product specific specifications are included in this schedule, but limited to those referred basic standards that are explicitly listed in Sections 1.4.1 to 	EN 55014-2:1997 CISPR 14-2:1997 EN 61000-6-1:2001 BS EN 61000-6-1:2007 EN 61000-6-2:2001 BS EN 61000-6-2:2005 EN 61000-6-2:2019 EN 61000-6-2:2019 EN 61000-6-3:2001 BS EN 61000-6-3:2007 including Amendment A1:2011 BS EN 1EC 61000-6-3:2021 EN 61000-6-4:2001 BS EN 61000-6-4:2007 including Amendment A1:2011 EN 61000-6-4:2019 BS EN 1EC 61000-6-8:2020 BS EN 1EC 61000-6-8:2020 BS EN 1EC 61000-6-8:2020 BS EN 1EC 61000-6-8:2020 BS EN 12895:2015 including Amendment A1:2019 BS EN 12895:2015 including Amendment A1:2019 BS EN 1SO 14982:1998 BS EN 1SO 14982:2009 ISO 13766:2006 BS EN ISO 13766-2: 2018 BS EN ISO 13766-2: 2018 BS EN 1SO 13766-2: 2018 BS EN 1SO 13766-2: 2018 BS EN 61326:1996 IEC 61326:1997 (Immunity only) EN 13309:2000 EN 301 489-1:V1.4.1:2002 T2/245/EEC 2009/64/EC EN 50498:2010 ISO 16750-2:2023 ECE Reg 97, Annex 7 Section 1 95/56/EC Annex IV 3.2, 5.2.12 and 8.2 ECE Reg 116, Rev 2, Annex 9, ISO 13309:2010 ECE Reg 161, Annex 7 ECE Reg 162, Annex 7



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As listed on Page 1	 1 EMC Tests (cont'd) 1.6 Electro Magnetic Exposure Magnetic Field 10 Hz to 60 MHz Electric Field 0 Hz to 18 GHz 	BS EN 62311:2020 PD IEC TS 62764-1: 2019 BS EN IEC 62764-1: 2022
	 Facilities for EMC Testing: Semi-anechoic Chamber (SAC) 22 m x 10 m x 7 m high Door size: 3 m x 4.7 m high Max Load: 10 tonne Anechoic Chamber (RFI) 9.35 m x 7.35 m x 5.17 m high Door size: 4 m x 3.75 m high Max Floor Loading: 12 tonne Component Test Laboratory (CTL) Semi-anechoic Chamber 8 m x 4.5 m x 5 m Transient Test Laboratory 1 & 2 (TTL) Capable of performing Vehicle and component transients Heavy Vehicle Semi-Anechoic Chamber (HVSAC) 22 m x 11 m x 7 m high Door size: 4 m x 4 m Max Load: 70 tonne 	Screened Room 1 5 m x 3 m x 4 m high Door size: 1 m x 2 m high Screened Room 2 3.6 m x 3.6 m x 2.5 m high Door size: 1 m x 2 m high Open Area Test Site (OATS) Range up to 30 metres Max size: 4.5 m high, 4 m wide Max weight: 14 tonnes (uncovered: 100 tonnes) Turntable diameter: 8 m Vehicle Electrical Test Laboratory (EWS) Vehicle preparations and Transients Electric Vehicle Test Laboratory (xEVL) Commercial and Vehicle Transients 90 kVA AC, 108 kW dc, 600 kW dc



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Vehicle Security Devices	2 Vehicle Security Devices Type Approval Tests	Equipment/Techniques used 95/56/EC, Annex VI 5.2.2.4, 5.2.2.5, 5.2.5, 5.2.6, 5.2.7, 5.2.9, 5.2.11, 5.2.13, 5.2.14 and 5.2.15 ECE Reg 97, 7.2.2.4, 7.2.2.5, 7.2.5, 7.2.6, 7.2.7, 7.2.9, 7.2.11, 7.2.13, 7.2.14 and 7.2.15 ECE Reg 116, Rev 2, Part II 6.4.2.2.4, 6.4.2.2.5, 6.4.2.5, 6.4.2.6, 6.4.2.7, 6.4.2.9, 6.4.2.11, 6.4.2.13, 6.4.2.14 and 6.4.2.15



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Vehicle Brakes and Braking Systems Vehicles in EEC and ECE Categories M1, M2, M3, N1, N2, N3, O2, O3, O4, Plus Agricultural and Forestry Tractors	 3 Straight line and static braking tests Type 0 Straight line braking (Full and part system) Type I, Type II and Type III Hot effectiveness (Fade tests) Park brake static and dynamic tests Static and dynamic system tests ABS efficiency and functional tests Temporary spare wheel tests 	71/320 EEC as amended ECE Regulations 13.10, 13.11, and 13H ECE Regulation 139 ECE Regulation 64.00 FMVSS 135
	Vehicle speedometer equipment Vehicle emergency stop signal (ESS)	UNECE R39-01 UNECE R48-08 Section 6.2.3
L2, L4, L5, L6 and L7	Vehicle brake performance	UNECE R78-06
	The tests listed above would be carried out on cars, trucks, buses, trailers	
	Straight line and static braking tests Type 0 Straight line braking Type I Hot effectiveness (Fade tests) Park brake static tests	76/432 EEC as amended
	The tests listed above would be carried out on agricultural and forestry tractors	
	Parameters measured:	
	(All pressures stated are Gauge)	
	Hydraulic pressure 0 to 150 bar Pneumatic pressure 0 to 10 bar Vacuum 0 to -0.9 bar Force 0 to 1000 N Temperature 0 to 300°C Deceleration 0 to 12 m/sec ² Velocity 0 to 200 km/h Time resolved to 50 ms Displacement +/- 200mm	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Road Restraint Systems:	4 Safety Performance Testing (Highway Safety and Protection of Infrastructure Facility)	
Breakaway Device Poles Crash Cushions Longitudinal Barriers	Speed range: up to 120 km/hr (for vehicle masses up to	EN 1317-1:2010
Safety Barriers Security Barriers Support Structures Terminals and Transitions	40 tonnes) Angle: 0° to 165° (Roll, pitch, and yaw: up to 45°)	EN 1317-2:2010 EN 1317-3:2010
Truck Mounted Attenuators Work Zone Traffic Control Devices Road Traffic Signs		DD ENV 1317-4:2002 TS 1317-7 : 2023 TS 1319-9 : 2023 TR 1319-10 : 2023 (Excluding Viirtual and Numerical)
	System deformations/deflections (and lateral displacement): up to 3.5 m	BS EN 12767:2019
	Post impact vehicle movement (including assessment of vehicle trajectory and response): up to 30 m	Documented In-House Procedure NCHRP Report 350 (Excluding Chapter 7) AASHTO MASH:2009 excluding Chapter 7 and Appendices B & D AASHTO MASH 2 : 2016 excluding the testing of cable barriers in the median position
	Vehicle Cockpit Deformation Index	PAS 68:2007 (Excluding Para 11) PAS 68:2010 PAS 68:2013 (Excluding concrete cube testing) PAS 170-1 : 2017 excluding
	(VCDI)	concrete cube testing SD-STD-02.01RevA March2003 ASTM F2656\F2656M-20 ASTM F2656\F2656M-23
	Assessment of debris produced Computed measurements from	BS8442:2006 (Part 14) TD49/07 CWA 16221:2010
	onboard instrumentation:	IWA 14-1:2013 (Excluding concrete cube testing) ISO 22343-1:2023
	Theoretical Head Impact Velocity (THIV): 3 km/hr to 44 km/hr Occupant Impact Velocity (OIV): up to 12 m/s	100 22040-1.2020
	Post impact Head Deflection (PHD): up to 20 g Occupant Ride-down Acceleration (ORA): up to 20 g	
	Acceleration Severity Index (ASI): 0.6 to 1.9	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Motor Vehicles	5 Frontal, Rear, and Side Impact	ECE R11.03 ECE R11.04
Automotive Components and Equipment Rigidised Vehicles (Vehicle Bucks) Train Seats Aircraft Seats	Simulation Tests using a HyGe Gun (HyGe Facility)	ECE 17.07 inc Annex 6 ECE R17.08 ECE R17.09 ECE R17.10 ECE R17.11 ECE R80.01 ECE R80.02 ECE R80.03 ECE R80.04
Rail interior crashworthiness		74/408/EEC ADR 34/01 ADR 34/02 ADR 34/03
	Temperature range: 19 °C to 23 °C (ambient) Acceleration: 2 g to 200 g (sled) 1 g to 2000 g (airbag firing) Load: up to 100 kN (3 axis) Pressure: 0.007 bar to 15 bar Displacement: up to 500 mm Current: 1 mA to 20 A Voltage: 2.5 mV to 100 V Velocity: up to 20 m/s Time: 0.5 ms to 125 s	ADR 68/00 2006 FIA 8855:1999 EASA 25.562 SAE AS 8049 Rail group standard GM/RT2100 issue 4, Appendix E excluding paragraph 6.5 GMRT2100 Issue 5 GMRT2100 Issue 6
Structures	Front and Rear Registration Plates Wheel Guards	EU 2024/883 amending directive EU 2021/535 Annex III Section 3 EU 2021/535 Annex V Section 2



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Motor Vehicles Steering Mechanisms Fuel System Integrity Vehicle Seats Seat Safety Belts Anthropomorphic Test Devices (for Occupant Injury)	6 Frontal, Rear, and Side Impact Tests using the Crash Test Hall and Hydraulic Winch (Crash Facility) Some tests include the use of Anthropomorphic Test Devices	ECE R12.04 (2018) ECE R12.05 (2022) ECE R32.00 (2014) ECE R34.03 (2019) exc. Annex 5 ECE R34.04 (2023) exc. Annex 5 ECE R94.04 (2021) Frontal Offset ECE R95.05 (2021) Side impact ECE R135.01 (2020) ECE R137.02 (2021) ECE R153-00 (2021) excluding Annex 4 EC 661/2009 EC 78/2009 FMVSS 204 FMVSS 208 FMVSS 212 FMVSS 214 Side Pole & Side MDB FMVSS 305 ADR 69/00 2007 ADR 72/00 2005 ADR 73/00 2005 ADR 73/00 2005 ADR 85/00 2015 TRIAS 17(2)-J111 TRIAS 18–J023 Brazilian Contran Resolutions :- 910/22 incorporating testing to: NBR15300-1 NBR15300-2 NBR15240 NBR15241 749/18 949/22 incorporating testing to: NBR16187



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Motor Vehicles Automotive Components and Equipment	7 Frontal, Rear, and Side Impact Simulation Tests using the Seat Back Moment Rig, the Drop Rig and Pendulum Rig (Structures Facility)	ECE R12.03 ECE R12 04 ECE R12 05 ECE R17.07 ECE R17.08 ECE R17.09 ECE R17 10 ECE R17 11 ECE R21.01
Vehicles in category M1 for pedestrian protection	8 Adult and Child Occupant head forms and leg forms	ECE R127.02 Annex 3 General test conditions Annex 4 Test impactor specifications Annex 5 Test procedures
	9. Emissions Testing	
LIGHT DUTY VEHICLES	Chassis Dynamometer based Emissions testing including climatic	EU 2017/1151 amended by 2023/443 Annex XXI Type 1 (WLTP) Annex V Type 3 – Crankcase emissions (if applicable) Annex VIII Type 6 – Cold test Annex IIIA RDE / PEMS
	Real Driving Emissions Testing	UNECE Reg 83 and Reg 101 Annex XXI Type 1 (NEDC) Annex V Type 3 – Crankcase emissions (if applicable) Annex VIII Type 6 – Cold test
	Gaseous and Particulate Emissions Testing	EU 2017/1151 as amended by EU 2023/443
	Electric Energy Consumption Testing	
	In service Conformity Testing	
	Conformity of production Testing	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HEAVY DUTY VEHICLES	 9. Emissions Testing (cont'd) Real Driving Emissions Testing Gaseous and Particulate Emissions Testing 	EU 582/2011 Annex III RDE/ PEMS
NON-ROAD MOBILE MACHINERY	In service Conformity Testing Real Driving Emissions Testing Gaseous and Particulate Emissions Testing In service Conformity Testing	EU 2017/655 – as amended by 2022/2387
Motor Vehicles	 10. Vehicle Electrical Safety Testing Protection Against Direct Contact Protection Against Indirect Contact Isolation Resistance Rechargeable Electrical Energy Storage System (REESS) Functional Safety Protection Against Direct Contact. 	UNECE R100.01 Clause 5.1.1, 5.1.2, 5.1.3, 5.2 & 5.3 Annex 3, 4A & 5 UNECE R100.02 Clause 5.1.1, 5.1.2, 5.1.3, 5.2 & 5.3 Annex 3, 4A & 5 UNECE R100.03
	Protection Against Indirect Contact Protection Against Indirect Contact Isolation Resistance Rechargeable Electrical Energy Storage System (REESS) Preventing Accidental or Unintended Vehicle Movement	Clause 5.1.1, 5.1.2, 5.1.3, 5.2 & 5.3, Annex 3, 4, 5A & 6 VSTD 64-1.4.1 to 64-1.4.7



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Motor Vehicles	11. ADAS Testing	
	Blind Spot Information System (BSIS) for detection of bicycles	UNECE R151 (BSIS) Supplement 3
	Advanced Emergency Brake Systems (AEBS)	UNECE R152 (AEBS) Supplement 2
	Moving Off Information Systems (MOIS)	UNECE R159 (MOIS) Supplement 1
	Vehicle rear cameras:	
	Close proximity rear view field of vision	UNECE R158 Annex 9
	Close proximity rear field of Detection	UNECE R158 Annex 10
VEHICLES IN EU / UNECE CATEGORIES	12. Noise Testing	UNECE R138-01 Annex 3
M – Passenger Vehicles N – Goods Vehicles	Vehicle Exterior Noise Tests (Noise level, vehicle speed)	
	END	I