

Technical Requirements for National Small Series Type-Approval for Category M1 and N1 Vehicles

(small series limit: for M₁ or N₁ is 250 vehicles per type per year)

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
A1	Interior fittings	Regulation (EU) 2019/2144	M1: A or C N1: N/A	<p>1. The following shall not apply: UN Regulation No. 21, paragraphs 5.1.2, 5.2.3.1, 5.2.4, 5.4.2.2, 5.4.2.3, 5.7.1.2.</p> <p>2. Until 31 December 2025, for extensions, compliance with Directive 74/60/EEC** is acceptable</p>
A2	Seats and head restraints	Regulation (EU) 2019/2144	B or C	<p>1. The requirements of Annex 9 to UN Regulation No. 17 may be waived at the request of the manufacturer.</p> <p>2. The installation of side facing seats is prohibited in vehicles of categories M1.</p> <p>3. Requirements of Paragraphs 5.4., 5.5., 5.6., 5.10., 5.11. and 5.12. of UN Regulation No. 17 shall apply with the exception of Paragraph 5.5.2. of that Regulation.</p> <p>4. This item does not apply to seats not intended for normal use while the vehicle is travelling on a road. Seats that are for use when travelling on a road shall be clearly identified to users.</p>
A4	Safety-belt anchorages	Regulation (EU) 2019/2144	B or C	<p>1. Until 31 December 2025, for extensions, compliance with Directive 76/115/EEC** is acceptable</p>
A5	Safety-belts and restraint systems	Regulation (EU) 2019/2144	<p>Component: X</p> <p>Installation: B or C</p>	<p>1. Full technical provisions of UN Regulation No. 16 are required for all seating positions.</p> <p>2. Seat belts which have been specially designed or adapted for use by an adult or young person with a disability and intended for use solely by such person are exempt.</p>

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				<p>3. Any vehicle not required to be fitted with seat belt anchorages is exempted from these requirements.</p> <p>4. A seat belt bearing an approval may be fitted, whether or not the seat belt has been type approved for the anchorages to which it is fitted, provided that the seat belt complies with the installation requirements.</p>
A6	Safety-belt reminders	Regulation (EU) 2019/2144	B	1. Not required on seats where seat belts are exempt as per item A5.
A8	Child restraint anchorages	Regulation (EU) 2019/2144	IF X	Not applicable
A9	Child restraint systems	Regulation (EU) 2019/2144	IF X	Not applicable
A10	Enhanced child restraint systems	Regulation (EU) 2019/2144	IF X	Not applicable
A12	Rear underrun protection	Regulation (EU) 2019/2144	IF Component: D Installation: B or C	<p>1. Vehicles where any RUPD (e.g. fixed, removable, foldable, adjustable, etc.) is incompatible with their use on roads may be partly or fully exempted from Regulation (EU) 2019/2144, subject to the decision of the Approval Authority.</p> <p>2. An Installation check shall be made to confirm that the rear protective device as a separate technical unit is of a type for which:</p> <p>(a) A type-approval has been granted or test report has been issued; or</p> <p>(b) Has been tested and witnessed by the Approval Authority; or</p> <p>(c) Calculations have been submitted to the satisfaction of the Approval Authority;</p> <p>and a visual inspection that the device has been correctly</p>

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				installed in accordance with the technical requirements.
A14	Fuel tank safety	Regulation (EU) 2019/2144	Component: B Installation: B or C	Not applicable
A15	Liquefied petroleum gas safety	Regulation (EU) 2019/2144	Component: X Installation: B or C	Not applicable
A16	Compressed and liquefied natural gas safety	Regulation (EU) 2019/2144	Component: X Installation: A or C	Not applicable
A17	Hydrogen safety	Regulation (EU) 2019/2144	Component: X Installation: A	1. Compliance with Regulation (EC) No. 79/2009 is acceptable.
A18	Hydrogen system material qualification	Regulation (EU) 2019/2144	Component: X Installation: B or C	1. Compliance with Regulation (EC) No. 79/2009 is acceptable.
A19	In-use electric safety	Regulation (EU) 2019/2144	IF B	Not applicable
A20	Frontal off-set impact	Regulation (EU) 2019/2144	B	1. The requirements of UN Regulation No. 94 shall apply to vehicles fitted with front airbags. Vehicles not fitted with front airbags shall fulfil the requirement of Item A22 of this table.
A21	Frontal full-width impact	Regulation (EU) 2019/2144	B	1. Use of the anthropomorphic test device 'Hybrid III' crash dummy is permitted until the test device for human occupant restraint 'THOR' is available in the UN Regulation.
A22	Protective steering	Regulation (EU) 2019/2144	B	Not applicable

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A24	Cab impact	Regulation (EU) 2019/2144	M1: N/A N1: B	Not applicable
A25	Side impact	Regulation (EU) 2019/2144	B	<p>1. Applies to all vehicles of Categories M1 and N1 including those with R point of the lowest seat > 700mm from ground level. For vehicles having R point of the lowest seat > 700mm from ground level, dates in Note B apply.</p> <p>2. The manufacturer shall supply the technical service with suitable information concerning a possible impact of the head of the dummy against the structure of the vehicle or the side glazing if made up of laminated glazing. When it is proven that such impact is likely to happen, the partial test using the head form test described in Paragraph 3.1. of Annex 8 to UN Regulation No. 95 shall be conducted and the criterion specified in Paragraph 5.2.1.1. of UN Regulation No. 95 shall be met.</p> <p>3. In agreement with the Approval Authority, the test procedure described in Annex 4 to UN Regulation No. 21 may be used as an alternative to the test of UN Regulation No. 95.</p>
A26	Pole side impact	Regulation (EU) 2019/2144	B	<p>1. Post-crash electrical safety requirements shall be ensured.</p> <p>2. The manufacturer shall supply the technical service with suitable information concerning a possible impact of the head of the dummy against the structure of the vehicle or the side glazing if made up of laminated glazing. When it is proven that such impact is likely to happen, the partial test using the head form test described in Paragraph 3.1. of Annex 8 to UN Regulation No. 95 shall be conducted and the criterion specified in Paragraph 5.2.1.1.</p>

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				<p>of UN Regulation No. 95 shall be met.</p> <p>3. In agreement with the Approval Authority, the test procedure described in Annex 4 to UN Regulation No. 21 may be used as an alternative to the test of UN Regulation No. 95.</p>
A27	Rear impact	Regulation (EU) 2019/2144	Component: B Installation: B or C	Not applicable
A28	112-based eCall in vehicles systems	Regulation (EU) 2015/758	N/A	Not applicable
B1	Pedestrian leg and head protection	Regulation (EU) 2019/2144	B	<p>1. Compliance with Regulation (EC) No. 78/2009 is acceptable</p> <p>2. Sections 2 and 3 of Annex I to Regulation (EC) No. 78/2009 shall not apply to:</p> <p>(a) vehicles of Category N1; and,</p> <p>(b) vehicles of Category M1 derived from N1 and of maximum mass exceeding 2,500 kg where the driver position 'R-Point' is either forward of the front axle or longitudinally rearwards of the front axle transverse centreline by a maximum of 1,100mm.</p>
B2	Enlarged head impact zone	Regulation (EU) 2019/2144	B	1. Compliance with Regulation (EC) No. 78/2009 is acceptable.
B3	Frontal protection system	Regulation (EU) 2019/2144	B	1. Compliance with Regulation (EC) No. 78/2009 is acceptable.
B4	Advanced emergency braking for	Regulation (EU) 2019/2144	IF B	Not applicable

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	pedestrian and cyclist			
B7	Reversing detection	Regulation (EU) 2019/2144	B	Not applicable
B8	Forward vision	Regulation (EU) 2019/2144	B	Not applicable
B10	Safety glazing	Regulation (EU) 2019/2144	Component: X Installation: B or C	<p>1. The regular light transmission shall not be less than 70% in the case of a windscreen and other glazing that is located in a position requisite for driving visibility.</p> <p>2. For rigid plastic panes fitted inside the vehicle which are requisite for the driver forward vision, the abrasion requirements for Class M shall be accepted as an alternative to the Class L abrasion requirements specified in Annex 24, paragraph 4.2.1.2.</p> <p>3. Paragraph 4.1.3. of Annex 24 to UN Regulation 43 does not apply.</p>
B11	Defrost/demist	Regulation (EU) 2019/2144	B	1. Vehicles of Category N1 shall be fitted with a suitable windscreen defrosting and demisting device.
B12	Wash/wipe	Regulation (EU) 2019/2144	B	Not applicable
B13	Indirect vision devices	Regulation (EU) 2019/2144	Component: X Installation: B or C	<p>1. Field of view requirements do not apply to Optional mirrors.</p> <p>“Optional mirrors” are mirrors not intended to give a clear view to the rear, side or front of the vehicle within the fields of vision defined in UN Regulation No. 46; therefore, they are in no way a substitute for rear view mirrors.</p>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
B14	Acoustic Vehicle Alerting Systems devices	Regulation (EU) No 540/2014 Or UN Regulation No. 138.01	A or C	Not applicable
C1	Steering equipment	Regulation (EU) 2019/2144	A or C	1. For a modified system manoeuvrability test in accordance with paragraph 6 of UN Regulation No. 79.
C3	Emergency lane keeping system	Regulation (EU) 2019/2144	IF B	Not applicable
C4	Braking	Regulation (EU) 2019/2144	A	1. The Approval Authority shall accept approvals to UN Regulation No. 13-H as an alternative to UN Regulation No. 13 in the case of N1 category vehicles.
C6	Brake assist	Regulation (EU) 2019/2144	A	1. The fitting of a brake assist system shall not be required. If fitted, they shall comply with the requirements of UN Regulation No. 13-H or with the requirements of UN Regulation No. 139.
C7	Stability control	Regulation (EU) 2019/2144	IF B	1. The fitting of an electronic stability control system shall not be required. If fitted, they shall comply with the requirements of UN Regulation No. 13-H or with the requirements of UN Regulation No. 140.
C9	Advanced emergency braking on light-duty vehicles	Regulation (EU) 2019/2144	X	Not applicable
C10	Tyre safety and environmental performance	Regulation (EU) 2019/2144	X	1. A test procedure for worn tyres shall also be ensured from 7 July 2026.
C11	Spare wheels and run-flat systems	Regulation (EU) 2019/2144	N/A	Not applicable

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C13	Tyre pressure monitoring for light-duty vehicles	Regulation (EU) 2019/2144	X	Not applicable
C15	Tyre installation	Regulation (EU) 2019/2144	B or C	1. Installation Check required to ensure that all tyres are marked in accordance with the Regulation including the appropriate speed and load ratings for their particular axle locations and the intended use of the vehicle. Check that tyres do not foul bodywork.
D1	Audible warning	Regulation (EU) 2019/2144	Component: X Installation: B or C	Not applicable
D2	Radio interference (electromagnetic compatibility)	Regulation (EU) 2019/2144	A or B	1. Until 31 December 2025, for extensions, compliance with Directive 72/245/EEC** is acceptable.
D3	Protection against unauthorised use, immobiliser and alarm systems	Regulation (EU) 2019/2144	A	1. Until 31 December 2025, for extensions, compliance with Directive 74/61/EEC** is acceptable.
D4	Protection of vehicle against cyberattacks	Regulation (EU) 2019/2144	X	1. Only for vehicles fitted with automated drive or steer systems such as lane keep assist or adaptive cruise control. The devices controlling and actuating these systems shall be covered by a cyber security management system (CSMS) and other applicable technical provisions of the Regulation, but the rest of the vehicle architecture that cannot influence the function of these systems shall be exempt from the scope of applicability. 2. Subject to the decision of the Approval Authority, for completed vehicles, where the multi-stage approval does not affect the applicable technical provisions of UN Regulation No. 155 of the base vehicle

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				approval, the final stage manufacturer shall submit a declaration to the Approval Authority. Where requested, the declaration shall outline why the multi-stage approval is exempt from the scope of applicability.
D5	Speedometer	Regulation (EU) 2019/2144	B or C	1. This requirement does not apply to a vehicle fitted with a tachograph if the tachograph provides adequate visual indication of vehicle speed to the driver.
D6	Odometer	Regulation (EU) 2019/2144	X	Not applicable
D8	Intelligent speed assistance	Regulation (EU) 2019/2144	B	Not applicable
D9	Identification of controls, tell-tales and indicators	Regulation (EU) 2019/2144	A or C	<p>1. Inspection to confirm that the prescribed controls are marked in accordance with the requirements of the UN Regulation. Other optional controls should be readily identifiable and shall not be confusable with other symbols shown in the Regulation.</p> <p>2. Electronic displays shall follow any appropriate priority protocol.</p>
D10	Heating systems	Regulation (EU) 2019/2144	B or C	Not applicable
D11	Light signalling devices	Regulation (EU) 2019/2144	X	<p>1. UN Regulation No. 148 may apply as an alternative to UN Regulation Nos. 4, 6, 7, 23, 38, 77, 87 and 91.</p> <p>2. UN Regulation No. 149 may apply as an alternative to UN Regulation No. 19.</p>
D12	Road illumination devices	Regulation (EU) 2019/2144	X	<p>1. UN Regulation No. 149 may apply as an alternative to UN Regulation Nos. 98, 112, 119 and 123.</p> <p>2. Adaptive front lighting systems (AFS) apply if fitted.</p>

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D13	Retro-reflective devices	Regulation (EU) 2019/2144	X	<p>1. UN Regulation No. 150 may apply as an alternative to UN Regulation Nos. 3 and 104.</p> <p>2. Conspicuity Markings shall be red to the rear and white or yellow to the side and shall comply with UN Regulation No. 104.</p>
D14	Light sources	Regulation (EU) 2019/2144	X	Not applicable
D15	Installation of light signalling, road illumination and retro-reflective devices	Regulation (EU) 2019/2144	B or C	<p>1. Headlamp dipped beam shall be suitable for left hand traffic. Cut-off shall be verified*.</p> <p>2. If there is only one rear fog lamp, it shall be on the right-hand side of the vehicle*.</p> <p>3. An Installation Check will be conducted including any check the Approval Authority considers necessary.</p> <p>4. The manufacturer should provide a list of components, their “e” / “E” numbers and any alternatives covered by test reports.</p>
D16	Emergency Stop Signal	Regulation (EU) 2019/2144	X	<p>1. Vehicles should have functionality to provide the emergency stop signal when an input is received, but it is not mandatory for this input to be enabled if it is not available from the existing approved brake system.</p>
D17	Headlamp cleaners	Regulation (EU) 2019/2144	X	Not applicable
D18	Gear shift indicator	Regulation (EU) 2019/2144	M1: N/A N1: N/A	<p>1. Compliance with Commission Regulation (EU) No 65/2012 is acceptable.</p>
E1	Alcohol interlock installation facilitation	Regulation (EU) 2019/2144	A	Not applicable

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E2	Driver drowsiness and attention warning	Regulation (EU) 2019/2144	B	1. Not required on vehicles that are limited to 65 km/h as per the certificate of conformity.
E4	Driver availability monitoring system	Regulation (EU) 2019/2144	IF B	Not applicable
E5	Event data recorder	Regulation (EU) 2019/2144	B	Not applicable
E6	Systems to replace driver's control	Regulation (EU) 2019/2144	M1: IF B N1: IF B	Not applicable
E7	Systems to provide the vehicle with information on state of vehicle and surrounding area	Regulation (EU) 2019/2144	M1: IF B N1: IF B	Not applicable
F1	Registration plate space	Regulation (EU) 2019/2144	B or C	1. Compliance with Regulation (EU) No 1003/2010 is acceptable.
F2	Reversing motion	Regulation (EU) 2019/2144	B	1. Compliance with Regulation (EU) 130/2012 is acceptable.
F3	Door latches and hinges	Regulation (EU) 2019/2144	B or C	1. Evidence that suitable proprietary parts from approved vehicles are used.
F4	Door entry steps, handholds and running boards	Regulation (EU) 2019/2144	B or C	1. Evidence that suitable proprietary parts from approved vehicles are used. 2. Compliance with Commission Regulation (EU) No 130/2012 is acceptable. 3. Until 31 December 2025, for extensions, compliance with Directive 70/387/EEC** is acceptable.
F5	External projections	Regulation (EU) 2019/2144	M1: A or C N1: N/A	Not applicable

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F6	External projections of commercial vehicle cabs	Regulation (EU) 2019/2144	M1: N/A N1: B	Not applicable
F7	Statutory plate and vehicle identification number	Regulation (EU) 2019/2144	B or C	<p>1. Inspection to confirm: the presence of a plate bearing details of Make, Approval number, VIN (or equivalent unique vehicle identifier), and Masses (Maximum Design values for the Axles, Gross Vehicle and Gross Train); the initial VIN or unique vehicle identifier is indelibly marked on the chassis or other structure on the right hand side of the vehicle.</p> <p>2. Where the vehicle is the subject of a multi-stage build a plate is required on completion of each stage as appropriate.</p> <p>3. Compliance with Commission Regulation (EU) No 19/2011 is acceptable.</p>
F8	Towing devices	Regulation (EU) 2019/2144	B or C	1. Compliance with Commission Regulation (EU) No 1005/2010 is acceptable.
F9	Wheel guards	Regulation (EU) 2019/2144	B or C	1. Compliance with Commission Regulation (EU) No 1009/2010 is acceptable.
F10	Spray suppression systems	Regulation (EU) 2019/2144	M1: N/A N1: Component: B Installation: B or C	1. Road Traffic (Spray Suppression Systems) Regulations 2023 (Statutory Instrument No. 409 of 2023) shall apply. Spray suppression systems are not required on vehicles in which the presence of spray suppression systems is incompatible with their use, subject to the decision of the Approval Authority.

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				<p>2. This item does not apply to vehicles approved to item F9.</p> <p>3. Compliance with Commission Regulation (EU) No 109/2011 is acceptable.</p>
F11	Masses and dimensions	Regulation (EU) 2019/2144	B or C	<p>1. The Road Traffic (Construction and Use of Vehicles) Regulations 2003 (Statutory Instrument No. 5 of 2003) as amended shall apply.</p> <p>2. Compliance with Commission Regulation (EU) No 1230/2012 is acceptable.</p> <p>3. Paragraph 2.2.3 of Regulation (EU) 1230/2012 shall apply.</p> <p>4. The hill start test at maximum combination mass described in Point 5.1 of Part A of Annex I to Regulation (EU) No. 1230/2012 may be waived at the request of the manufacturer.</p>
F12	Mechanical couplings	Regulation (EU) 2019/2144	IF Component: A Installation: B or C	<p>1. Applies only to vehicles equipped with coupling(s).</p>
F13	Vehicles intended for the transportation of dangerous goods	Regulation (EU) 2019/2144	M1: N/A N1: B	<p>1. Only applicable to vehicles intended for the transport of dangerous goods.</p>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
G1	Sound level	Regulation (EU) No 540/2014 Or UN Regulation No. 51.03	A or C	<p>1. Sections 1.1, 1.2 and 1.3 of Annex IV to Regulation (EU) No. 540/2014 shall not be compulsory.</p> <p>2. Sections 1.1, 1.2 and 1.3 of Annex 4 to UN Regulation No. 51 shall not be compulsory.</p> <p>3. Modification of the exhaust system length after last silencer not exceeding 2m is permissible without further test.</p> <p>4. Stationary Noise Test:</p> <p>Vehicles for which an approval has been granted or test report has been issued prior to modification of the exhaust system downstream of the catalyst, the Approval Authority will decide if a Stationary Noise Test will suffice.</p> <p>“Stationary Noise Test means”:</p> <p>a) In the case of a modified exhaust system a stationary test as defined in paragraphs 4.2.5.3.1. and 4.2.5.3.2. of Annex II to Regulation (EU) No. 540/2014 and shall not exceed the equivalent stationary value recorded on the Certificate of Conformity, Approval Certificate or test report for that vehicle by more than 2dB(A) at 0.5m.</p> <p>b) In the case of vehicles having a maximum permissible mass exceeding 2,800 kg fitted with a modified air brake system, a test report is required to Appendix 2 of Annex I to Regulation (EU) No. 540/2014 except that this shall not apply if air brake silencers are fitted.</p>

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G2	Tailpipe emissions of vehicle in lab	Regulation (EC) No 715/2007	X	<p>1. This item does not apply to vehicles approved to item G3.</p> <p>2. Modification of exhaust system length after the last silencer is permissible without any further test.</p>
G2a	Determination of specific CO ₂ emissions and fuel consumption of vehicle and device for monitoring on board the vehicle the consumption of fuel and/or electric energy	Regulation (EC) No. 715/2007	A	Not applicable
G3	Tailpipe emissions of engine in lab	Regulation (EC) No 595/2009	A	<p>1. This item does not apply to vehicles approved to item G2.</p> <p>2. For vehicles with a reference mass exceeding 2,610 kg which are not type-approved (at the manufacturer's request and provided their reference mass does not exceed 2,840 kg) under Regulation (EC) No 715/2007.</p> <p>3. Modification of exhaust system length after the last silencer is permissible without any further test.</p> <p>4. For vehicles with a maximum mass equal to or exceeding 2,500 kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply, provided that the reference mass is within the scope of Regulation (EC) No. 595/2009.</p>
G4	Tailpipe emissions on the road	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	A	<p>1. Modification of exhaust system length after the last silencer is permissible without any further test.</p> <p>2. For vehicles approved under Regulation (EC) No. 595/2009,</p>

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				for vehicles with a maximum mass equal to or exceeding 2,500 kg the requirements according to the category of the base or incomplete vehicle based on maximum mass may apply, provided that the reference mass is within the scope of Regulation (EC) No. 595/2009.
G5	Durability of tailpipe emissions	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	A	Not applicable
G6	Crankcase emissions	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	A	Not applicable
G7	Evaporative emissions	Regulation (EC) No 715/2007	A	Not applicable
G8	Low-temperature tailpipe emissions in lab	Regulation (EC) No 715/2007	A	Not applicable
G9	On-board diagnostics	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	A	Not applicable
G10	Absence of defeat device	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	A	Not applicable
G11	Auxiliary emissions strategies	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	A	Not applicable
G12	Anti-tampering	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	A	Not applicable
G13	Recyclability	Directive 2005/64/EC	N/A	1. Annex V on prohibition of reuse of the specified component parts shall apply.

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
G14	Air-conditioning systems	Directive 2006/40/EC	B	Not applicable
H1	Access to vehicle OBD information and vehicle repair and maintenance information	Regulation (EU) 2018/858, Articles 61 to 66 and Annex X.	B or C	1. Manufacturers may provide information in an easily accessible manner. “easily accessible manner” means information available on websites, brochures, or Portable Document Format (PDF).
H2	Software update	Regulation (EU) 2018/858, Annex IV UN Regulation No 156	X	1. Where a manufacturer performs a software update, this shall be done in accordance with UN Regulation No. 156.

