



STATUTORY INSTRUMENTS.

S.I. No. 201 of 2024

EUROPEAN UNION (ROAD VEHICLES: TYPE-APPROVAL AND
MARKET SURVEILLANCE) (AMENDMENT) REGULATIONS 2024

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I, EAMON RYAN, Minister for Transport, in exercise of the powers conferred on me by section 3 of the European Communities Act 1972 (No. 27 of 1972) for the purpose of giving full effect to Regulation (EU) 2018/858 of the European Parliament and of the Council of 30 May 2018¹, as amended by Regulation (EU) 2019/2144 of the European Parliament and of the Council of 27 November 2019², Regulation (EC) No 715/2007 of the European Parliament and of the Council of 20 June 2007³ and Regulation (EC) No 595/2009 of the European Parliament and of the Council of 18 June 2009⁴, hereby make the following regulations:

1. These Regulations may be cited as the European Union (Road Vehicles: Type-Approval and Market Surveillance) (Amendment) Regulations 2024.

2. In these Regulations “Principal Regulations” means the European Union (Road Vehicles: Type-Approval and Market Surveillance) Regulations 2020 (S. I. No. 556 of 2020).

3. The Principal Regulations are amended in Regulation 3(1) by—

(a) the substitution for the definition of “Framework Regulation” of the following definition:

“Framework Regulation” means Regulation (EU) 2018/858 of the European Parliament and of the Council of 30 May 2018¹, as amended by Regulation (EU) 2019/2144 of the European Parliament and of the Council of 27 November 2019², Commission Delegated Regulation (EU) 2021/1244 of 20 May 2021⁵, Commission Delegated Regulation (EU) 2021/1445 of 23 June 2021⁶ and Commission Delegated Regulation (EU) 2022/2236 of 20 June 2022⁷; and includes its implementing measures, namely—

- (a) Commission Implementing Regulation (EU) 2020/683 of 15 April 2020⁸;
- (b) Commission Implementing Regulation (EU) 2020/1812 of 1 December 2020⁹;

¹ OJ No. L151, 14.6.2018, p.1

² OJ No. L325, 16.12.2019, p. 1

³ OJ No. L171, 29.6.2007, p. 1

⁴ OJ No. L 188, 18.7.2009, p. 1

⁵ OJ No. L 272, 30.7.2021, p. 16

⁶ OJ L 313, 6.9.2021, p. 4

⁷ OJ L 296, 16.11.2022, p. 1

⁸ OJ L 163, 26.5.2020, p. 1

⁹ OJ L 404, 2.12.2020, p. 5

(c) Commission Implementing Regulation (EU) 2021/133 of 4 February 2021¹⁰; and

(d) Commission Implementing Regulation (EU) 2022/163 of 7 February 2022¹¹;

and

(b) the insertion of the following definitions:

“‘defeat device’ means any element of design which senses temperature, vehicle speed, engine speed (RPM), transmission gear, manifold vacuum or any other parameter for the purpose of activating, modulating, delaying or deactivating the operation of any part of the emission control system, that reduces the effectiveness of the emission control system under conditions which may reasonably be expected to be encountered in normal vehicle operation and use;

‘defeat strategy’ means an emission control strategy that reduces the effectiveness of the emission controls under ambient or engine operating conditions encountered either during normal vehicle operation or outside the type-approval test procedures;

‘national small series type-approval’ means the national type-approval of vehicles produced in small series granted in accordance with Article 42 of the Framework Regulation;

‘pollution control device’ means those components of a vehicle that control or limit tailpipe emissions;

‘Regulation (EC) No 715/2007’ means Regulation No 715/2007 (EC) of the European Parliament and of the Council of 20 June 2007³;

‘Regulation (EC) No 595/2009’ means Regulation (EC) No 595/2009 of the European Parliament and of the Council of 18 June 2009⁴;

‘Regulation (EU) 2019/2144’ means Regulation (EU) 2019/2144 of the European Parliament and of the Council of 27 November 2019²;

‘specially equipped vehicle’ is a vehicle that is adapted or specially constructed so as to enable a person with a disability to travel in the vehicle, whether as the driver or a passenger, in safety and reasonable comfort;”.

4. Regulation 12 of the Principal Regulations is amended by the insertion after paragraph (4) of the following:

“(4A) Where the Approval Authority grants the application, it shall issue to the applicant a national individual vehicle approval certificate without delay.”.

5. The Principal Regulations are amended by the insertion after Regulation 15 of the following:

¹⁰ OJ L 42, 5.2.2021, p. 1

¹¹ OJ L 27, 8.2.2022, p. 1

“Part 4A

Placing on the market – end of series vehicles

End-of-series vehicles

15A A manufacturer who wishes to benefit from Article 49 of the Framework Regulations shall submit a request in accordance with paragraph (3) of that Article to the Road Safety Authority being the competent authority for the purposes of that Article.”.

6. The following is substituted for Regulation 16 of the Principal Regulation:

“Authorised officers

16. (1) The Market Surveillance Authority may appoint a person to be an authorised officer for the purpose of the Framework Regulation and these Regulations.
 - (2) An authorised officer shall be furnished with a warrant of his or her appointment as an authorised officer.
 - (3) When exercising a power conferred on him or her under this Regulation, an authorised officer shall, if requested by a person thereby affected, produce the warrant of his or her appointment, or a copy of it, to that person and a form of personal identification.
 - (4) An appointment under paragraph (1) may be revoked at any time by the Market Surveillance Authority.
 - (5) An authorised officer may, for the purpose of ensuring that the Framework Regulation and these Regulations are being complied with, do any of the following:
 - (a) require any economic operator to produce the type-approval certificate or certificate of conformity to the authorised officer in respect of any vehicle, system, component or separate technical unit;
 - (b) enter at any reasonable time any premises or place, at which there are reasonable grounds to believe that any vehicle, system, component, separate technical unit, parts or equipment to which the Framework Regulation or these Regulations applies or apply are or are likely to be found, and search and inspect the premises or place and such vehicle, system, component, separate technical unit, parts or equipment found there and any type-approval certificates, certificates of conformity, books, documents or records relating to the type-approval, placing on the market, making available on the market or entry into service of any such vehicle, system, component, separate technical unit, parts or equipment;

- (c) secure for later inspection any premises or place or part of it in which any such vehicle, system, component, separate technical unit, parts or equipment or any type-approval certificates, certificates of conformity, books, documents or records relating to the type-approval, placing on the market, making available on the market or entry into service of any such vehicle, system, component, separate technical unit, parts or equipment are kept or there are reasonable grounds for believing that such are kept;
 - (d) require any person in charge of the premises or place to produce to him or her any books, documents or records relating to the type-approval, placing on the market, making available on the market or entry into service of any vehicle, system, component, separate technical unit, parts or equipment which are in the person's power or control (and in the case of such information in a non-legible form to reproduce it in a legible form) and to give to him or her such information as the authorised officer may reasonably require in relation to any entries in such books, documents or records;
 - (e) inspect and take extracts from or make copies of any such books, documents or records (including, in the case of information in a non-legible form, a copy of or extract from such information in a legible form);
 - (f) remove and retain such books, documents or records for such period as may be reasonable for further examination;
 - (g) require any person in charge of the premises or place to maintain such books, documents or records for such period of time, as may be reasonable, as he or she directs;
 - (h) require any person in charge of the premises or place to give him or her any information which he or she may reasonably require relating to the type-approval, placing on the market, making available on the market or entry into service of any vehicle, system, component, separate technical unit, parts or equipment;
 - (i) take without payment of compensation any necessary samples of any vehicle, system, component, separate technical unit, parts or equipment;
 - (j) carry out or have carried out on the sample so taken such analyses, examinations, tests and inspections as he or she considers necessary or expedient.
- (6) Where an authorised officer in exercise of his or her powers under this Regulation is prevented from entering any premises or place, an application may be made under paragraph (8) for a warrant to authorise such entry.

- (7) An authorised officer shall not, other than with the consent of the occupier, enter a private dwelling, unless he or she has obtained a warrant under paragraph (8) authorising such entry.
- (8) If, on the sworn information of an authorised officer, a judge of the District Court is satisfied that there are reasonable grounds for suspecting that information required by an authorised officer for the purpose of the Framework Regulation or these Regulations is held at any premises or any place, the judge may issue a warrant authorising an authorised officer, accompanied, if appropriate, by other authorised officers and members of the Garda Síochána, at any time or times within one month from the date of issue of the warrant, on production of the warrant, if so requested, to enter those premises or that place, if need be by reasonable force, and exercise all or any of the powers conferred on an authorised officer under this Regulation.
- (9) A person who—
 - (a) without reasonable excuse, fails or refuses to comply with any request or requirement made by an authorised officer,
 - (b) obstructs, impedes, interferes with or assaults an authorised officer in the exercise by that authorised officer of a power under this Regulation,
 - (c) gives to an authorised officer information that is false or misleading in a material respect, or
 - (d) alters, suppresses, or destroys any certificate, book, document or record which the person concerned has been required to produce, or reasonably expected to be required to produce, commits an offence and is liable on summary conviction to a class A fine.

Manufacturers, etc. type- approval obligations —offences

- 16A (1) Where—
 - (a) a manufacturer fails to comply with Article 13, 14 or 38,
 - (b) a manufacturer's representative fails to comply with Article 15,
 - (c) an importer fails to comply with Article 16 or 17,
 - (d) a distributor fails to comply with Article 18 or 19, or
 - (e) an economic operator fails to comply with Article 21, of the Framework Regulation, he or she commits an offence.
- (2) An economic operator who does any of the actions referred to in Article 84(2) or (3), or a technical service which does any of the actions referred to in Article 84(2), of the Framework Regulation, commits an offence.
- (3) A manufacturer who—

- (a) places on the market registers or enters into service a new vehicle, or
- (b) places on the market enters into service a new system, component or separate technical unit, which is not type-approved in accordance with the requirements of Regulation (EU) 2019/21442 commits an offence.
- (4) A manufacturer who fails to comply with Article 4 or 5 of Regulation (EC) No 715/20073 commits an offence.
- (5) A person who uses a defeat device prohibited under Article 5 (2) of Regulation (EC) No 715/20073 commits an offence.
- (6) A person who uses a defeat strategy prohibited under Article 5 (3) of Regulation (EC) No 595/20094 commits an offence.
- (7) A person who sells or installs a new replacement pollution control device intended to be fitted on vehicles approved under Regulation (EC) No 715/20073 prohibited under Article 11 of that Regulation, if it is not of a type on respect of which a type approval has been granted in compliance with that Regulation and its implementing measures, subject to any extension granted by an approval authority in accordance paragraph (2) and the exemption in paragraph (3) of that Article, commits an offence.
- (8) A manufacturer who fails to comply with the obligations of a manufacturer under Regulation (EC) No 595/20094 commits an offence.
- (9) A manufacturer, repairer or operator who fails to comply with obligations concerning systems using a consumable reagent under Article 7 of Regulation (EC) No 595/20094 commits an offence.
- (10) A person who sells or installs a new replacement pollution control device intended to be fitted on a vehicle approved under Regulation (EC) No 595/20094 and its implementing measures prohibited under Article 9 of that Regulation, if it is not of a type in respect of which type-approval has been granted in compliance with Regulation (EC) No 595/20094 and its implementing measures, commits an offence.
- (11) A person who commits an offence under this Regulation is liable—
 - (a) on summary conviction, to a class A fine, or
 - (b) on conviction on indictment, to a fine not exceeding €250,000.“.

7. Regulation 17 of the Principal Regulations is amended—

- (a) by the deletion of paragraphs (1) to (4), and
- (b) by the substitution for paragraph (7) of the following:

“(7) An offence under these Regulations may be brought and prosecuted summarily by the Market Surveillance or the Authority Approval Authority.”.

8. The Principal Regulations are amended by the substitution for Schedules 1 and 2 of the Schedules out in the Schedule to these Regulations.

9. The following are revoked:

- (a) the European Communities (Road Vehicles: Type-Approval) Regulations 2009 (S.I. No. 158 of 2009) insofar as it is not already revoked;
- (b) the European Communities (Road Vehicles: Type-Approval) (Amendment) Regulations 2010 (S.I. No. 169 of 2010);
- (c) the European Communities (Road Vehicles: Entry into Service) (Amendment) Regulations 2010 (S.I. No. 170 of 2010);
- (d) the European Communities (Road Vehicles: Entry into Service) (Amendment) Regulations 2011 (S.I. No. 420 of 2011);
- (e) the European Communities (Road Vehicles: Type-Approval) (Amendment) Regulations 2011 (S.I. No. 422 of 2011);
- (f) the European Communities (Road Vehicles: Type-Approval) (Amendment) Regulations 2013 (S.I. No. 471 of 2013);
- (g) the European Communities (Road Vehicles: Entry into Service) (Amendment) Regulations 2013 (S.I. No. 475 of 2013);
- (h) the European Communities (Road Vehicles: Entry into Service) (Amendment) Regulations 2017 (S.I. No. 279 of 2017);
- (i) the European Communities (Road Vehicles: Type Approval) (Amendment) Regulations 2017 (S.I. No. 280 of 2017);
- (j) the European Communities (Road Vehicles: Entry into Service) (Amendment) Regulations 2018 (S.I. No. 264 of 2018);
- (k) the European Communities (Road Vehicles: Type-Approval) (Amendment) Regulations 2019 (S.I. No. 53 of 2019).

Regulation 8

Schedule

“Schedule 1

National Individual Vehicle Approval: Certain Varieties of Vehicle

- 1. This Schedule applies to a vehicle of a class that:
 - (1) falls within category M1 or N1; and
 - (2) which is:

- (a) an amateur-built vehicle, within the meaning of section 3 of this Schedule;
- (b) a vehicle manufactured in very low volume, within the meaning of section 4 of this Schedule;
- (c) a motor caravan; or
- (d) a hearse.

2. In this Schedule:

“hearse” has the meaning given in paragraph 5.4 of Part A of Annex II to the Framework Regulation;

“motor caravan” has the meaning given in paragraph 5.1 of Part A of Annex II to the Framework Regulation.

3. (1) In this Schedule, a vehicle is an “amateur-built vehicle” if:
- (a) the vehicle was constructed or assembled for the personal use of a person (in this Schedule, “R”) who is a relevant individual, and
 - (b) the whole, or a substantial part, of the construction, assembly or modification was carried out:
 - (i) by R,
 - (ii) by one or more relevant individuals acting on behalf, and under the direction, of R, or
 - (iii) by R and one or more relevant individuals acting on behalf, and under the direction, of R.

(2) For the purposes of this paragraph, a relevant individual in relation to a motor vehicle is an individual who does not, at any time during the period when the construction or assembly of the vehicle was being carried out, carry on a business in the course of which motor vehicles are normally constructed, assembled or modified.

4. (1) In this Schedule, a vehicle is a “vehicle manufactured in very low volume” if the condition in subparagraph (2) is satisfied.

(2) The condition is that the total number of vehicles of the family of types to which the vehicle in question belongs which are manufactured in the world during any period of 12 months falling within the period of 36 months immediately preceding the month in which the vehicle was manufactured does not exceed 300.

5. For the purpose of determining whether a multi-purpose vehicle falls into category M1 or N, if the manufacturer so requests a vehicle which has:

- (a) 4 or more seats,
- (b) a load area not exceeding 40% of its length, and

- (c) a maximum technically permissible mass not exceeding 6500 kilogrammes, may be categorised as M1”

Schedule 2

Technical Requirements for the Granting of National Small Series Type-Approval and Extensions and National Individual Vehicle Approval

Explanatory Notes

- X Application of the technical requirements as follows:
- (a) All requirements of the technical requirements shall be fulfilled;
 - (b) A type-approval certificate shall be granted;
 - (c) Tests and inspections shall be conducted by the technical service or the manufacturer under the conditions laid down in Articles 67 to 81 of the Framework Regulation;
 - (d) A test report shall be drafted in accordance with Annex III to the Framework Regulation;
 - (e) Conformity of Production (COP) shall be ensured.
- A Application of the technical requirements as follows:
- (a) All requirements of the technical requirements shall be fulfilled unless otherwise stated;
 - (b) No type-approval certificate shall be required;
 - (c) Tests and inspections shall be conducted by the technical service or the manufacturer under the conditions laid down in Articles 67 to 81 of the Framework Regulation;
 - (d) A test report shall be drafted in accordance with Annex III to the Framework Regulation;
 - (e) COP shall be ensured.
- B Application of the technical requirements as follows:
- Same as for Letter ‘A’ with the exception that the tests and inspections referred to in paragraph (c) of A may be performed by the manufacturer, subject to the agreement of the Approval Authority.
- C Application of the technical requirements as follows:
- (a) Applies where EU type-approval has been granted for a vehicle (with the exception of O category) prior to alteration;
 - (b) Only the technical requirements relevant to the alteration shall be fulfilled;

- (c) No type-approval certificate shall be required;
- (d) Tests and inspections may be conducted by the Approval Authority or an approved tester;
- (e) Where tests and inspections are conducted by the Approval Authority or an approved tester, the test report shall consist of the information deemed necessary by the Approval Authority;
- (f) COP shall be ensured.

D Same as for Letter ‘C’, with the exception that a statement of compliance submitted by the manufacturer is sufficient. No test report shall be required. The Approval Authority or technical service may require additional information or further evidence, if necessary.

N/A Not applicable

IF Applies only if the system, separate technical unit or component is fitted to the vehicle in the respective vehicle category.

In case of multi-stage approval, compliance with the regulatory act according to which the base vehicle has been type-approved shall be accepted. In this case, any vehicle systems, their features, parts, equipment, components and separate technical units that have been modified or added by the manufacturer, may be assessed against the base vehicle's requirements. Any specific provisions noted in addition to this explanatory note shall be taken into account.

Unless specified otherwise, UN Regulation levels shall be as specified in Annex I to Regulation (EU) 2019/2144 as regards series level and applicable date.

*Applies in respect of technical adaptations within the meaning of Regulation 15(3).

**In accordance with Article 15 of Regulation (EU) 2019/2144, this Directive may be used to demonstrate compliance with these Regulations.

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	Component: X Installation: B or C	<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>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
				<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> <ul style="list-style-type: none"> (a) A type-approval has been granted or test report has been issued; or (b) Has been tested and witnessed by the Approval Authority; or (c) Calculations have been submitted to the satisfaction of the Approval Authority; <p>and a visual inspection that the device has been correctly</p>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
				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

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
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>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
				<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

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
	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	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. 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. 3. Paragraph 4.1.3. of Annex 24 to UN Regulation 43 does not apply.
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	1. Field of view requirements do not apply to Optional mirrors. “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.

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

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
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

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
				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	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. 2. Electronic displays shall follow any appropriate priority protocol.
D10	Heating systems	Regulation (EU) 2019/2144	B or C	Not applicable
D11	Light signalling devices	Regulation (EU) 2019/2144	X	1. UN Regulation No. 148 may apply as an alternative to UN Regulation Nos. 4, 6, 7, 23, 38, 77, 87 and 91. 2. UN Regulation No. 149 may apply as an alternative to UN Regulation No. 19.
D12	Road illumination devices	Regulation (EU) 2019/2144	X	1. UN Regulation No. 149 may apply as an alternative to UN Regulation Nos. 98, 112, 119 and 123. 2. Adaptive front lighting systems (AFS) apply if fitted.

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
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	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.
D17	Headlamp cleaners	Regulation (EU) 2019/2144	X	Not applicable
D18	Gear shift indicator	Regulation (EU) 2019/2144	M1: N/A N1: N/A	1. Compliance with Commission Regulation (EU) No 65/2012 is acceptable.
E1	Alcohol interlock installation facilitation	Regulation (EU) 2019/2144	A	Not applicable

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
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

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
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.

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
				<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	1. Applies only to vehicles equipped with coupling(s).
F13	Vehicles intended for the transportation of dangerous goods	Regulation (EU) 2019/2144	M1: N/A N1: B	1. Only applicable to vehicles intended for the transport of dangerous goods.

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>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
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>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
				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	<p>1. Manufacturers may provide information in an easily accessible manner.</p> <p>“easily accessible manner” means information available on websites, brochures, or Portable Document Format (PDF).</p>
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.

Part 2

Technical Requirements for National Small Series Type-Approval for Category M₂, M₃, N₂, N₃ and O Vehicles

(small series limit: for M₂, M₃, N₂, N₃ and O is 250 vehicles per type per year)

To enable representative testing, the vehicle will be submitted in a presentable state and capable of being laden to maximum mass.

A manufacturer's representative shall be present to enable access to all parts of the vehicle, to assist in explanation of features of that vehicle, and to cooperate in any testing.

Where a type of system has been altered at the subsequent stage of completion of the vehicle, to the extent that the system has to be retested for type-approval purposes, that retesting shall be limited to only those parts of the system that have been altered or affected by the changes.

Table 2: Technical Requirements for National Small Series Type-Approval for Category M₂, M₃, N₂, N₃ and O Vehicles

'Alternative Technical Requirements' means technical requirements in Regulation 6.

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
A2	Seats and head restraints	Regulation (EU) 2019/2144	B or C	1. The installation of side facing seats is prohibited in vehicles of categories M2 (Class B or III) and M3 (Class B or III).
A3	Bus seats	Regulation (EU) 2019/2144	B or C	Not applicable
A4	Safety-belt anchorages	Regulation (EU) 2019/2144	B or C	1. Applies to M2 (Class B or III), M3 (Class B or III), And, if fitted, M2 (Class A, I or II), M3 (Class A, I or II). 2. For vehicles fitted with safety-belts which are not mandatory: The requirements of UN Regulation No 14 with the exception of the upper anchorage deflection according to 7.1.1. 3. Until 31 December 2025, for extensions, compliance with Directive 76/115/EEC** is acceptable.
A5	Safety-belts and restraint systems	Regulation (EU) 2019/2144	Component: X Installation: B or C	1. Full technical provisions of UN Regulation No. 16 are required for all seating positions. 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. 3. Any vehicle not required to be fitted with seat belt anchorages is exempted from these requirements. 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.
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

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
A10	Enhanced child restraint systems	Regulation (EU) 2019/2144	IF X	Not applicable
A11	Front underrun protection	Regulation (EU) 2019/2144	N2 and N3: Component: A Installation: B or C	1. Does not apply to off-road vehicles and vehicles where the provision of a front underrun device is incompatible with its use, subject to the decision of the Approval Authority.
A12	Rear underrun protection	Regulation (EU) 2019/2144	Component: A Installation: B or C	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. 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: (a) A type-approval has been granted or test report has been issued; or (b) Has been tested and witnessed by the Approval Authority; or (c) Calculations have been submitted to the satisfaction of the Approval Authority; and a visual inspection that the device has been correctly installed in accordance with the technical requirements.
A13	Lateral protection	Regulation (EU) 2019/2144	N2, N3, O3 and O4: Component: D Installation: B or C	1. Vehicles where any lateral protection device (e.g. fixed, removable, foldable, adjustable, etc.) is incompatible with their on road use may be partly or fully exempted from Regulation (EU) 2019/2144, subject to the decision of the Approval Authority. 2. The test requirements of Paragraphs 12.10 and 14.4 of UN Regulation No. 73 do not apply if the device is designed to meet the strength characteristics equivalent to those needed to satisfy the requirements of those paragraphs.

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
A14	Fuel tank safety	Regulation (EU) 2019/2144	M2, M3, N2, N3: Liquid fuel tanks: B Installation: B or C O3 and O4: IF Component: B Installation: B or C	Not applicable
A15	Liquefied petroleum gas safety	Regulation (EU) 2019/2144	M2, M3, N2 and N3: IF Component: X Installation: A or C	Not applicable
A16	Compressed and liquefied natural gas safety	Regulation (EU) 2019/2144	M2, M3, N2 and N3: IF Component: X Installation: A or C	Not applicable
A17	Hydrogen safety	Regulation (EU) 2019/2144	M2, M3, N2 and N3: IF Component: X Installation: A	1. Compliance with Regulation (EC) No. 79/2009 is acceptable.
A18	Hydrogen system material qualification	Regulation (EU) 2019/2144	IF X	1. Compliance with Regulation (EC) No. 79/2009 is acceptable.
A19	In-use electric safety	Regulation (EU) 2019/2144	IF B	Not applicable
A24	Cab impact	Regulation (EU) 2019/2144	N2 and N3: B	Not applicable
B5	Pedestrian and cyclist	Regulation (EU) 2019/2144	M2, M3, N2 and N3: B	Not applicable

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
	collision warning			
B6	Blind spot information system	Regulation (EU) 2019/2144	M2, M3, N2 and N3: B	Not applicable
B7	Reversing detection	Regulation (EU) 2019/2144	M2, M3, N2 and N3: 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. Paragraph 4.1.3. of Annex 24 to UN Regulation 43 does not apply.</p> <p>3. 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>
B11	Defrost/demist	Regulation (EU) 2019/2144	M and N: B	<p>1. Vehicles of Category M and N shall be fitted with a suitable windscreen defrosting and demisting device.</p> <p>2. Compliance with Commission Regulation (EU) No 672/2010 is acceptable.</p>
B12	Wash/wipe	Regulation (EU) 2019/2144	M and N: B	Not applicable

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
B13	Indirect vision devices	Regulation (EU) 2019/2144	M2, M3, N2 and N3: Component: X Installation: B or C O: N/A	1. Field of vision: Field of view requirements do not apply to Optional mirrors. “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.
B14	Acoustic Vehicle Alerting Systems	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.
C2	Lane departure warning system	Regulation (EU) 2019/2144	M2, M3, N2 and N3: X O: N/A	1. Not required for a complete vehicle or a completed vehicle where the complete or incomplete vehicle it is based upon was manufactured before 1 October 2017. 2. Shall be suitable for left-hand traffic*. 3. Not required for exempt vehicles listed in Article 1 of Regulation (EU) No. 351/2012. 4. Compliance with Regulation (EU) No. 351/2012 is acceptable.
C4	Braking	Regulation (EU) 2019/2144	M2, M3, N2, N3, O3 and O4: A O1: IF Component: A Installation: B or C O2: Component: A	1. For trailers equipped with antilock systems: A test shall be performed in accordance with Paragraph 6.1.4. of Annex 13 to UN Regulation No.13. 2. O1 and O2 trailers fitted with inertia brakes may alternatively comply with all of the following requirements: (a) technical reports to Appendix 2 and 3 of Annex 12 to UN Regulation No. 13; (b) a compatibility check to Appendix 4 of Annex 12; (c) compliance with the requirements of Annex I, paragraphs 5.2.2.9 however, this requirement does not apply to trailers with a maximum

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
			Installation: B or C	<p>mass not exceeding 1.5 metric tons provided that the trailers are fitted, in addition to the main coupling, with a secondary coupling (chain, cable, etc.), which, in the event of separation of the main coupling, can stop the drawbar from touching the ground and provide some residual steering action on the trailer and 5.2.2.10;</p> <p>(d) the technical requirements of Annex 12, paragraphs 3.1, 3.2, 3.4 excluding drag force check; and</p> <p>(e) a visual assessment to Annex 12, paragraphs 4.1, and of the first sentence of paragraph 4.2;</p> <p>A “Park Brake Test” means: A test for O2 and if fitted O1 category trailers that the park brake meets the performance requirement of, paragraph 2.3 of Annex 4 to UN Regulation No. 13.</p> <p>3. Applies to O1 category trailers if fitted.</p>
C7	Stability control	Regulation (EU) 2019/2144	B	Not applicable
C8	Advanced emergency braking on heavy-duty vehicles	Regulation (EU) 2019/2144	M2, M3, N2 and N3: X O: N/A	<p>1. Not required for a completed vehicle where the complete or incomplete vehicle it is based upon was manufactured before 1 October 2017.</p> <p>2. Not required for a complete vehicle which was manufactured before 1 October 2017.</p> <p>3. Not required for exempt vehicles listed in Article 1 of Regulation (EU) No. 347/2012.</p> <p>4. Not required for a completed vehicle where the complete or Incomplete vehicle upon which it is based has a gross weight not more than 8 tonnes or has hydraulic brakes or is not equipped with pneumatic rear suspension; and was manufactured before 1 November 2020.</p> <p>5. Not required for a complete vehicle which has a gross weight not more than 8 tonnes or has hydraulic brakes or is not equipped with pneumatic rear suspension; and which was manufactured before 1 November 2020.</p> <p>6. Compliance with Regulation (EU) 347/2012 is acceptable.</p>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
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.
C14	Tyre pressure monitoring for heavy-duty vehicles	Regulation (EU) 2019/2144	M2, M3, N2, N3, O3 and O4: X O1 and O2: N/A	1. Date for the refusal to grant national type-approval for trailers of Category O3 and O4: 31 December 2025. 2. Date for the prohibition of the licensing of trailers of Category O3 and O4: 31 December 2025.
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	M2, M3, N2, N3: Component: X Installation: B or C O: N/A	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	M2, M3, N2 and N3: IF D O: N/A	1. The following shall not apply on a compulsory basis: UN Regulation No. 18, paragraphs 5.8., 6.1.3., 6.1.4., 6.2.4., 6.2.5., 6.2.6., 6.2.7. and 6.3.5. 2. If fitted, the protective device shall fulfil the requirements of UN Regulation No. 18. 3. Immobilisers shall be approved as part of the base vehicle or as a Separate Technical Unit. 4. Alarms shall be approved as part of the base vehicle or as a Separate Technical Unit. 5. Until 31 December 2025, for extensions, compliance with Directive 74/61/EEC** is acceptable.
D4	Protection of vehicle against cyberattacks	Regulation (EU) 2019/2144	M2, M3, N2 and N3: B O: N/A	1. Only for vehicles fitted with automated drive or steer systems such as lane keep assist or adaptive cruise control. The devices

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
				<p>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.</p> <p>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 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.</p>
D5	Speedometer	Regulation (EU) 2019/2144	M2, M3, N2 and N3: B or C O: N/A	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	M2, M3, N2 and N3: X O: N/A	Not applicable
D7	Speed limitation devices	Regulation (EU) 2019/2144	M2, M3, N2 and N3: X O: N/A	1. Installation Check for the set speed which shall be indicated on a plate in a conspicuous position in the driver's compartment.
D8	Intelligent speed assistance	Regulation (EU) 2019/2144	M2, M3, N2 and N3: B O: N/A	Not applicable
D9	Identification of controls, tell-tales and indicators	Regulation (EU) 2019/2144	M2, M3, N2 and N3: A or C O: N/A	<p>1. Inspection to confirm that the prescribed controls are marked in accordance with the requirements of the UN Regulation.</p> <p>2. Other optional controls should be readily identifiable and shall not be confusable with other symbols shown in the Regulation.</p> <p>3. Electronic displays shall follow any appropriate priority protocol.</p>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
D10	Heating systems	Regulation (EU) 2019/2144	M2, M3, N2 and N3: B or C O: IF B or C	1. If fitted, until 31 December 2025, for extensions, compliance with Directive 2001/56/EC** is acceptable
D11	Light signalling devices	Regulation (EU) 2019/2144	X	1. UN Regulation No. 148 may apply as an alternative to UN Regulation Nos. 4, 6, 7, 23, 38, 77, 87 and 91. 2. UN Regulation No. 149 may apply as an alternative to UN Regulation No. 19.
D12	Road illumination devices	Regulation (EU) 2019/2144	M2, M3, N2 and N3: X O: N/A	1. UN Regulation No. 149 may apply as an alternative to UN Regulation Nos. 98, 112, 119 and 123. 2. Adaptive front lighting systems (AFS) apply if fitted.
D13	Retro-reflective devices	Regulation (EU) 2019/2144	X	1. UN Regulation No. 150 may apply as an alternative to UN Regulation Nos. 3 and 104. 2. Conspicuity Markings shall be red to the rear and white or yellow to the side and shall comply with UN Regulation No. 104.
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	1. Headlamp dipped beam shall be suitable for left hand traffic. Cut-off shall be verified*. 2. If there is only one rear fog lamp, it shall be on the right-hand side of the vehicle*. 3. An Installation Check will be conducted including any check the Approval Authority considers necessary. 4. The manufacturer should provide a list of components, their "e" / "E" numbers and any alternatives covered by test reports. 5. Amber side marker lamps may be wired to flash, provided that this flashing is in phase and at the same frequency with the direction indicator lamps at the same side of the vehicle. 6. The requirements of paragraphs 6.5.4.2 and 6.5.5 of UNECE Regulation 48 do not apply to any optional rear direction indicator lamps.

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
D16	Emergency Stop Signal	Regulation (EU) 2019/2144	M2, M3, N2 and N3: X O: N/A	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.
D17	Headlamp cleaners	Regulation (EU) 2019/2144	M2 and M3: X N2 and N3: IF X	Not applicable
E1	Alcohol interlock installation facilitation	Regulation (EU) 2019/2144	M2, M3, N2 and N3: A O: N/A	Not applicable
E2	Driver drowsiness and attention warning	Regulation (EU) 2019/2144	M2, M3, N2 and N3: B O: N/A	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	M2, M3, N2 and N3: IF B O: N/A	Not applicable
E5	Event data recorder	Regulation (EU) 2019/2144	M2, M3, N2 and N3: B O: N/A	Not applicable
E6	Systems to replace driver's control	Regulation (EU) 2019/2144	M2, M3, N2 and N3: IF B O: N/A	Not applicable
E7	Systems to provide the vehicle with information on state of vehicle and surrounding area	Regulation (EU) 2019/2144	M2, M3, N2 and N3: IF B O: N/A	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	M2, M3, N2 and N3: B O: N/A	1. Compliance with Regulation (EU) No 130/2012 is acceptable.
F4	Door entry steps, handholds and running boards	Regulation (EU) 2019/2144	N2, N3: B or C	1. Evidence that suitable proprietary parts from approved vehicles are used. 2. Until 31 December 2025, for extensions, compliance with

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
				<p>Directive 70/387/EEC** is acceptable</p> <p>3. Compliance with Regulation (EU) No 130/2012 is acceptable.</p>
F6	External projections of commercial vehicle cabs	Regulation (EU) 2019/2144	N2 and N3: B M2, M3 and O: N/A	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 Regulation (EU) 19/2011 is acceptable.</p> <p>4. Until 31 December 2027, the requirement for a check digit referred to in Paragraph 2.1 and 2.4 of Section A of Part 2 of Annex II to Regulation (EU) 2021/535 does not apply.</p>
F8	Towing devices	Regulation (EU) 2019/2144	M2, M3, N2 and N3: B or C O: N/A	1. Compliance with Regulation (EU) No 1005/2010 is acceptable
F10	Spray suppression systems	Regulation (EU) 2019/2144	M2 and M3: N/A N2, N3, O: Component: B Installation: B or C	<p>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.</p> <p>2. Compliance with 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. For the purpose of Table I of Appendix 1 of Annex I to Regulation (EU) No. 1230/2012, the items specified shall also include:</p> <ul style="list-style-type: none"> (i) any plate, whether rigid or movable, fitted to a trailer constructed for the purpose of carrying other vehicles and designed to bridge the gap between the trailer and a motor vehicle constructed for that purpose and to which the trailer is designed to be attached such that vehicles carried on it may be moved from the trailer to the motor vehicle or from the motor vehicle to the trailer; (ii) any part of a trailer designed primarily for use as a means of attaching it to another vehicle and any fitting designed for use in connection with any such part. <p>3. For the purpose of Table I of Section F of Part 2 of Annex XIII to Regulation (EU) No. 2021/535, the items specified shall also include:</p> <ul style="list-style-type: none"> (i) any plate, whether rigid or movable, fitted to a trailer constructed for the purpose of carrying other vehicles and designed to bridge the gap between the trailer and a motor vehicle constructed for that purpose and to which the trailer is designed to be attached such that vehicles carried on it may be moved from the trailer to the motor vehicle or from the motor vehicle to the trailer; (ii) any part of a trailer designed primarily for use as a means of attaching it to another vehicle and any fitting designed for use in connection with any such part. <p>4. Compliance with Regulation (EU) 1230/2012 is acceptable.</p> <p>5. In the case of a vehicle of Category O4 having 3 axles, equipped with air suspension and equipped with a vehicle stability function for which an approval has been issued in accordance with UN Regulation No. 13, Section E of Part 2 of Annex XIII to Regulation (EU) 2021/535 is amended as follows:</p> <ul style="list-style-type: none"> (a) for “12.00m” in Point 1.1.1. (b) substitute “14.05m”;
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No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
F12	Mechanical couplings	Regulation (EU) 2019/2144	M2, M3, N2, N3: IF Component: A Installation: B or C O: Component: A Installation: B or C	1. Applies only to vehicles equipped with coupling(s).
F13	Vehicles intended for the transportation of dangerous goods	Regulation (EU) 2019/2144	M2 and M3: N/A N2, N3, O: A or B	1. Only applicable to vehicles intended for the transport of dangerous goods.
F14	General bus construction	Regulation (EU) 2019/2144	M2 and M3: B or C N2, N3, O: N/A	<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. Regulation (EU) 535/2021 Annex XIII, Part 2, Section C, Paragraph 2.2.3. shall apply.</p> <p>3. The installation of side facing seats is prohibited in vehicles of categories M2 (Class B or III) and M3 (Class B or III).</p> <p>4. Service doors shall be located on the lefthand side*.</p> <p>5. A door, not being a service door, may be fitted to the offside of a vehicle.</p> <p>6. In the case of any deck of a vehicle without a permanent top, the handrails are required to extend to the ceiling or to a height of not less than 1500mm. A handhold may be substituted for a handrail.</p> <p>7. As an alternative to paragraph 7.11.3.1 of Annex 3 to UN Regulation No. 107, a vehicle may be fitted with handrails or handholds on at least one side and in the case of double doors this requirement may be met by a central stanchion or handrail.</p> <p>8. Vehicles of Class A & B: The frontal barrier collision test in paragraph 7.6.7.2 of Annex 3 to UN Regulation No. 107 shall not apply to</p>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
				<p>a vehicle in which all passengers have access to at least two doors, being either a service door or an emergency door, one of which is not a sliding door.</p> <p>9. Vehicles of Class B: UN Regulation No. 107, Annex 8, Paragraph 3.3.1. shall not apply.</p> <p>10. Vehicles of Class B with a variable seating or wheelchair arrangement: Paragraph 3.6.6 of Annex 8 to UN Regulation No. 107 shall not apply to the extent that it requires a pictogram internally adjacent to a priority seat or a wheelchair space.</p> <p>11. The test requirements of Paragraph 3.8. of Annex 8 to UN Regulation No. 107 do not apply if the vehicle is designed to meet the strength characteristics equivalent to those needed to satisfy the requirements of those paragraphs.</p> <p>12. In the case of Class I vehicles, the requirement of Annex 8, 3.1 for steps of not more than 200mm shall only apply between the nominated accessible door and all priority seat positions in the vehicle. All other steps which are not transitioned to seated position(s) shall comply with the requirements of 7.7.7.</p> <p>13. Paragraph 7.12.1. shall not apply to a seat in front of which is an existing vehicle structure or a support equivalent to a seat squab, (comprising a minimum a flat vertical foam 12mm deep attached to an existing structure) fitted at the forward end of the open area in place of separated by up to 1,800 mm offering comparable levels of protection as a guard meeting the requirements of Paragraph 7.12.1.</p> <p>14. Paragraph 7.4 of Annex 3 to UN Regulation No. 107 does not apply to a vehicle of Class B fitted with no more than 16 passenger seats.</p> <p>15. In the case of a vehicle of Class III specially designed for the carriage of school children, Annex 3 to UN Regulation No. 107 is amended as follows:</p> <p>(a) for “225 mm” in Paragraphs 7.7.8.1.1.2 and 7.7.8.1.2.2 substitute “200 mm”;</p> <p>(b) for “680 mm” in Paragraph 7.7.8.4.1</p>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
				<p>substitute “650 mm”; and,</p> <p>(c) for “400 mm” in Paragraph 7.7.8.2.2</p> <p>substitute “350 mm”.</p> <p>16. For vehicles of Class I, Annex 8 shall apply.</p> <p>17. For vehicles other than Class I –</p> <p>(a) if fitted with accommodation for a wheelchair the vehicle shall comply with the technical provisions of paragraphs 3.6 and 3.8 of Annex 8;</p> <p>(b) if fitted with a boarding aid the vehicle shall comply with the technical provisions of paragraph 3.11 of Annex 8.</p>
F15	Bus strength of superstructure	Regulation (EU) 2019/2144	A	1. Scope: M2 or M3, Class II or Class III or Class B with more than 16 passengers.
F16	Flammability in buses	Regulation (EU) 2019/2144	M2: N/A M3: B N and O: N/A	1. Applies to M3 Class II and Class III.
G1	Sound level	Regulation (EU) No 540/2014 Or UN Regulation No. 51.03	M2, M3, N2 and N3: A or C O: N/A	<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: 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>

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
				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.
G2	Tailpipe emissions of vehicle in lab	Regulation (EC) No 715/2007	A	<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. The requirements according to the category of the base/incomplete vehicle or of the corresponding N category vehicle based on maximum mass may apply, provided that the reference mass is within the scope of Regulation (EC) No. 595/2009.</p> <p>4. Modification of exhaust system length after the last silencer is permissible without any further test.</p>
G3a	Determination of specific CO ₂ emissions and fuel consumption of vehicle	Regulation (EC) No. 595/2009	M3, N2 and N3: A	Not applicable

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
G3b	Determination of specific energy efficiency performance of trailer	Regulation (EC) No. 595/2009	O3 and O4: A	1. Date for the prohibition of the registration of trailers: 31 December 2025
G4	Tailpipe emissions on the road	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	M and N: A	Not applicable
G5	Durability of tailpipe emissions	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	M and N: A	Not applicable
G6	Crankcase emissions	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	M and N: A	Not applicable
G7	Evaporative emissions	Regulation (EC) No 715/2007	M2 and N2: A	1. Applies to vehicles of category M2 and N2 that are within the scope of Regulation (EC) No. 715/2007.
G8	Low-temperature tailpipe emissions in lab	Regulation (EC) No 715/2007	M2 and N2: A	1. Applies to vehicles of category M2 and N2 that are within the scope of Regulation (EC) No. 715/2007.
G9	On-board diagnostics	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	M and N: A	Not applicable
G10	Absence of defeat device	Regulation (EC) No 715/2007 Regulation (EC) No. 595/2009	M and N: A	Not applicable
G11	Auxiliary emissions strategies	Regulation (EC) No 715/2007 Regulation (EC) No. 595/2009	M and N: A	Not applicable
G12	Anti-tampering	Regulation (EC) No 715/2007 Regulation (EC) No. 595/2009	M and N: A	Not applicable
H1	Access to vehicle OBD information and vehicle repair and	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,

No.	Subject	Regulatory Act	Applicability	Alternative Technical Requirements
	maintenance information			brochures, or in Portable Document Format (PDF).
H2	Software update	Regulation (EU) 2018/858, Annex IV UN Regulation No 156	N/A	1. Where a manufacturer performs a software update, this shall be done in accordance with UN Regulation No. 156.

Part 3

Technical Requirements (Supplementary) for National Small Series Type-Approval for Special Purpose Vehicles

(small series limit for Special Purpose vehicles are the same as for their parent category)

This supplement should be read in conjunction with Part III of Annex II to the Framework Regulation.

All requirements related to Part III of Annex II to the Framework Regulation apply unless specific alternatives or variations are listed in the table below.

All requirements related to the parent category apply unless specific exemptions or variations are listed here.

To enable representative testing the vehicle shall be submitted in a presentable state and capable of being laden to maximum mass.

For Special Purpose vehicles based on O category vehicles, a compatible towing vehicle also capable of being laden to maximum mass shall also be supplied.

A manufacturer's representative shall be present to enable access to all parts of the vehicle, to assist in explanation of features of that vehicle, and to cooperate in any testing.

Table 3: Technical Requirements (Supplementary) for National Small Series Type-Approval for Special Purpose Vehicles

No.	Subject	Specific issues	Applicability and variations
A1	Interior fittings	Wheelchair accessible vehicles	For the purpose of this requirement a wheelchair shall be considered to be a seat.

No.	Subject	Specific issues	Applicability and variations
A1	Interior fittings	Ambulances	From 1 January 2026: The patient compartment of ambulances shall comply with the requirements of EN 1789:2020 on Medical vehicles and their equipment – Road ambulances with the exception of Section 6.5., list of equipment. Proof of compliance shall be provided with a test report of the approved tester. If a wheelchair space is foreseen, the requirements for wheelchair accessible vehicles (code SH) relating to the wheelchair tie-down and occupant restraint systems shall also apply.
A2	Seats and head restraints	Specially equipped vehicle	In the case of a specially equipped vehicle, the seats of the vehicle may be adapted without further testing, provided it can be demonstrated to the Approval Authority that their anchorages, mechanisms and head restraints provide the same level of performance.
A2	Seats and head restraints	Wheelchair accessible vehicles	Head restraints do not apply to a seat which is a wheelchair.
A22	Protective steering	Specially equipped vehicle	If a specially equipped vehicle had been adapted, then the requirements of this item shall not apply to the vehicle insofar as the adaptation prevents the vehicle from complying with any of the requirements of this item.
B8	Forward vision	Wheelchair accessible vehicles	In the case of a wheelchair accessible vehicle adapted for a wheelchair to be used as the driver's seat, it shall be sufficient to demonstrate to the satisfaction of the Approval Authority that the driver's forward vision is comparable to that of the original driver's seat when the vehicle was first approved to the Regulation or Directive when the seat height adjustment of the original seat shall be set in the mid position.
C1	Steering equipment	Steering Control System	In the case of a specially equipped vehicle paragraph 5.1.3 of UN Regulation No. 79, may not apply to a steering control system designed to meet the needs of a driver with a disability.
C4	Braking	Specially equipped vehicle	In the case of a specially equipped vehicle the requirements for the driver to be able to operate the service braking system while keeping both hands on the steering control, and the secondary braking system while keeping at least one

No.	Subject	Specific issues	Applicability and variations
			<p>hand on the steering control, shall not apply to, so long as the vehicle is adapted for a driver with a disability to enable them to control the steering at all times while operating either braking system.</p> <p>Where supplementary controls are fitted for a driver with a disability both the standard and supplementary shall comply with the technical requirements.</p>
C15	Tyre installation	Armoured vehicles	In the case of an armoured vehicle, the Approval Authority may only grant exemption(s) if the manufacturer demonstrates that the vehicle cannot meet the requirements due to its special purpose. The exemptions granted are to be described on the vehicle type-approval certificate and the certificate of conformity
D15	Installation of light signalling, road illumination and retro-reflective devices	All special purpose vehicles	Headlamp dipped beam shall be suitable for left hand traffic. Cut-off shall be verified*. If there is only one rear fog lamp, it shall be on the right-hand side of the vehicle*.
F1	Registration plate space	All special purpose vehicles	In the case of all special purpose vehicles exemption from one or more of the provisions in column 3 of Part III of Annex II to the Framework Regulation is permissible where it can be demonstrated to the satisfaction of the Approval Authority that the special purpose of the vehicle makes it impossible to fully comply provided that an Irish registration plate can be mounted and remain visible.
F4	Door entry steps, handholds and running boards	Doors for wheelchair access	For the purpose of this provision the seat cushion of a wheelchair is considered to be a seat.
G2	Tailpipe emissions of vehicle in lab	All special purpose vehicles	An EC type-approval or EU type-approval issued to the most representative base vehicle remains valid irrespective of change in the reference mass.

Part 5

Technical Requirements (Supplementary) for National Individual Vehicle Approval for Category M, N and O Vehicles including Special Purpose Vehicles

This supplement should be read in conjunction with National Small Series Type-Approval Technical Requirements for the category of vehicle.

The Approval Authority shall not carry out destructive tests to establish whether the vehicle complies with the Alternative Technical Requirements but shall instead use any relevant information provided by the applicant for that purpose.

To enable representative testing the vehicle shall be submitted in a presentable state and capable of being laden to maximum mass.

A manufacturer's representative shall be present to enable access to all parts of the vehicle, to assist in explanation of features of that vehicle, and to cooperate in any testing.

For O category vehicles, a compatible towing vehicle also capable of being laden to maximum mass shall also be supplied.

Table 4: Technical Requirements (Supplementary) for National Individual Vehicle Approval for Category M, N and O Vehicles including Special Purpose Vehicles

'Alternative Technical Requirements' means technical requirements in Regulation 6.

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
A1	Interior fittings	Regulation (EU) 2019/2144	Scope: M1 Applicability: M1: A or C N1: N/A	<p>1. No surface (other than a surface of a window) of the vehicle interior which can be contacted by a sphere of 165 mm diameter, and which is within the specified zone, shall include any fittings (e.g. controls, including steering controls, and instruments) or design features which have any dangerous roughness or sharp edges.</p> <p>2. Switches and other controls mounted on the instrument panel which project by more than 9.5 mm from the surface of the panel, can be contacted by a sphere of 165 mm diameter and which are within the specified zone, shall be so constructed and mounted that they would either retract into the surface of the panel or become detached from the panel when a horizontal force of 37.8 daN is applied to them.</p> <p>3. The lower edge of the instrument panel which is within the specified zone shall be rounded to a radius of curvature of not less than 19 mm, or if it is covered with non-rigid material, not less than 5 mm.</p> <p>4. The rearward and upward-facing parts of seat frames behind which there is a designated seating position, and which are within the head impact zone shall be both covered with non-rigid material and have a radius of curvature of not less than 5 mm.</p> <p>5. The handbrake control in the fully released position and the gear-lever control in any forward gear position shall not have any radius of curvature of less than 3.2 mm on surfaces which can be contacted by a sphere of 165 mm diameter.</p> <p>6. Shelves and other similar items fitted below the level of the highest part of the instrument panel shall be so constructed that their supports have no protruding edges and that all parts facing into the vehicle present a surface not less than 25 mm high with edges rounded to a radius of curvature of not less than 3.2 mm.</p>

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
				<p>This surface shall also be covered with non-rigid material.</p> <p>7. On that part of the inner surface of the roof which is situated above or forward of the occupants and can be contacted by a sphere of 165 mm diameter, the width of projecting parts made of rigid material, shall not be less than the length of their projection from the surface and their edges shall have a radius of curvature of not less than 5 mm. Roof sticks or ribs made of rigid material with the exception of the header rail of the glazed surfaces and door frames, shall not project downwards by more than 19mm.</p> <p>8. In the case of ambulances, the manufacturer shall provide the Approval Authority with documentation demonstrating compliance with EN 1789:2014.</p> <p>For the purposes of this item—“airbag” means a device installed to supplement safety belts and restraint systems in power-driven vehicles, i.e. systems which in the event of a severe impact affecting the vehicle automatically deploy a flexible structure intended to limit, by compression of the gas contained within it, the severity of the contacts of one or more parts of an occupant of the vehicle with the interior of the passenger compartment.</p> <p>“designated seating position” means a position where there is a seat designed for normal use while the vehicle is travelling on the road;</p> <p>“head impact zone” has the same meaning as in Directive 74/60/EEC;</p> <p>“non-rigid material” means a material which has a hardness of less than 50 shore A;</p> <p>“rigid material” means a material which has a hardness of no less than 50 shore A;</p> <p>“sharp edge” means an edge of rigid material having a radius of curvature of less than 2.5 mm, except in the case of</p>

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
				<p>projections of less than 3.2 mm from the panel. In this case, the minimum radius of curvature shall not apply provided that the height of the projection is not more than half its width and its edges are blunted;</p> <p>“specified zone” means the zone which-</p> <ul style="list-style-type: none"> (a) is forward of the transverse plane of the torso reference line of the manikin as defined in paragraph 2.5 and appendix 1 of Annex 3 to Directive 77/649/EEC as last amended by Directive 90/630/EEC with the manikin positioned in the rearmost designated seating position; (b) is above the horizontal plane passing through the point 150 mm above the lowest part of the top of the front seat cushions; and (c) is outside the areas defined by paragraphs 2.3.1, 2.3.2 and 2.3.3 of Annex I to Directive 74/60/EEC as last amended by Directive 78/632/EEC. <p>This item shall not apply to a goods vehicle.</p> <p>Paragraph 1 shall not apply to:</p> <ul style="list-style-type: none"> (a) the edges of any interior fitting (if there is a gap of less than 20 mm wide between the edges); (b) any heating or ventilation grill element; or (c) any control mounted on the heating or ventilation grill element area; so long as they are blunted. <p>Paragraph 1 shall not apply to foot pedal controls.</p> <p>Paragraphs 1 and 2 shall not apply to any switches, controls or associated equipment designed for the use by a person with a disability and fitted in a specially equipped vehicle so long as any edges are blunted.</p> <p>Paragraph 4 shall not apply to any seat designed for a person with a disability</p>

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
				<p>and fitted in a specially equipped vehicle.</p> <p>Paragraph 5 shall not apply to-</p> <ul style="list-style-type: none"> (a) any floor-mounted hand-brake control if, in the fully released position, no part of the control is in the specified zone; or (b) any hand-brake control mounted on or under the instrument panel, if in the fully released position, there is no possibility of the occupants of the vehicle contacting it in the event of a frontal impact. <p>Paragraph 7 shall not apply to parts covered with a non-rigid material and the hood frames of convertible vehicles. For opening roofs, the requirements shall apply to parts, including devices for opening, closing and adjusting the roof, with the roof in the closed position.</p> <p>Paragraph 1 (in so far as it relates to the surface of an instrument panel) and paragraph 2 shall not apply to any vehicle if:</p> <ul style="list-style-type: none"> (a) it is fitted with air bags for the protection of the driver and the front seat passenger; and (b) those air bags were fitted at the time the vehicle was manufactured, except that this exemption shall not apply to: <ul style="list-style-type: none"> (i) an amateur-built vehicle; and (ii) a vehicle manufactured in very low volume.
A2	Seats and head restraints	Regulation (EU) 2019/2144	<p>Scope: M and N</p> <p>Applicability: B or C</p>	No Alterations or Variations except For vehicles other than category M2 (Class B or III) and M3 (Class B or III) and not fitted with seat belts a Visual Inspection.

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
A3	Bus seats	Regulation (EU) 2019/2144	Scope: M2 and M3 Applicability: B or C	No Alterations or Variations except For vehicles other than category M2 (Class B or III) and M3 (Class B or III) and not fitted with seat belts a Visual Inspection.
A4	Safety-belt anchorages	Regulation (EU) 2019/2144	Scope: M and N Applicability: B or C	No Alterations or Variations For Schedule 1 Vehicles: 1. Compliance with Directive 76/115/EEC** is acceptable. 2. Tests need not be performed provided that the vehicle is designed to meet the strength characteristics equivalent to those needed to satisfy the requirements of this item.
A5	Safety-belts and restraint systems	Regulation (EU) 2019/2144	Scope: M and N Applicability: Component: X Installation: B or C	No Alterations or Variations For Schedule 1 Vehicles: 1. Seat belts approved to an equivalent standard may be permitted.
A6	Safety-belt reminders	Regulation (EU) 2019/2144	Scope: M and N Applicability: B	No Alterations or Variations For Schedule 1 Vehicles: 1. Seat belts approved to an equivalent standard may be permitted. 2. A safety belt reminder is required for the driver and front row passengers for Schedule 1 Vehicles.
A8	Child restraint anchorages	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF X	No Alterations or Variations
A9	Child restraint systems	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF X	No Alterations or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
A10	Enhanced child restraint systems	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF X	No Alterations or Variations
A11	Front underrun protection	Regulation (EU) 2019/2144	Scope: N2 and N3 Applicability: Component: A Installation: B or C	No Alterations or Variations
A12	Rear underrun protection	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: Component: A Installation: B or C	<p>No Alterations or Variations</p> <p>For Schedule 1 Vehicles:</p> <p>1. The technical provisions of paragraph 5 of Annex II to Directive 70/221/EEC as last amended by Directive 2006/20/EC. As an alternative to the installation requirements above for a rear protective device fitted to a vehicle, an Installation Check where an Installation Check means: A check to confirm that the rear protective device as a separate technical unit is of a type for which:</p> <ul style="list-style-type: none"> (a) a type-approval has been granted or test report has been issued; or (b) has been tested and witnessed by the Approval Authority; or (c) calculations have been submitted to the satisfaction of the Approval Authority; <p>and a visual inspection that the device has been correctly installed in accordance with the technical provisions of paragraph 5 of Annex II to Directive 70/221/EEC as last amended by Directive 2006/20/EC.</p>

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
A13	Lateral protection	Regulation (EU) 2019/2144	Scope: N2, N3, O3 and O4 Applicability: Component: D Installation: B or C	No Alternatives or Variations but tests are not required where the device is designed to meet the strength characteristics specified in the National Small Series Type-Approval requirements.
A14	Fuel tank safety	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: Liquid fuel tanks: B Installation: B or C	No Alternatives or Variations For Schedule 1 Vehicles: 1. The technical provisions of Section 5 of Annex I of Directive 70/221/EEC as last amended by Directive 2006/20/EC, with the exception of paragraphs 5.1. 5.2. and 5.12. No dripping test shall be performed. 2. Vehicles (except those not fitted for fuels liquid at normal ambient conditions) shall comply with the requirements of paragraphs 5.1.2 (run on unleaded petrol) of Directive 70/220/EEC as amended by Directive 2001/100/EC. 3. For vehicles using gaseous fuels: UN Regulation No. 34 for liquid fuels.
A15	Liquefied petroleum gas safety	Regulation (EU) 2019/2144	Scope: M and N Applicability: Component: X Installation: B or C	No Alternatives or Variations
A16	Compressed and liquefied natural gas safety	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF Component: X Installation: A or C	No Alternatives or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
A17	Hydrogen safety	Regulation (EU) 2019/2144	Scope: M and N IF Component: X Installation: A	No Alternatives or Variations
A18	Hydrogen system material qualification	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF X	No Alternatives or Variations
A19	In-use electric safety	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF B	No Alternatives or Variations For Schedule 1 Vehicles: 1. For a vehicle with batteries with maximum voltage 48V — only compliance with the essential technical requirements of UN Regulation No. 100 is required.
A20	Frontal off-set impact	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: B	Alternative for M1 and N1 vehicles: 1. Approval to the provisions listed in Directive 96/79/EC**, Annex II, paragraph 3 or UN Regulation No. 94.01 is required. 2. Category N1 vehicles and vehicles with a maximum mass exceeding 2,500 kg are exempt. 3. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply. 4. For wheelchair accessible vehicles and specially equipped vehicles the vehicle is not required to comply with respect to adaptation for a person with a disability affecting the frontal impact. Evidence of compliance of the unadapted vehicle is required. Schedule 1 Vehicles: Not applicable for Schedule 1 vehicles.

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
A21	Frontal full-width impact	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: B	<p>Alternative for M1 and N1 vehicles:</p> <ol style="list-style-type: none"> 1. Approval to the provisions listed in Directive 96/79/EC**, Annex II, paragraph 3 or UN Regulation No. 94.01 is required. 2. Category N1 vehicles and vehicles with a maximum mass exceeding 2,500 kg are exempt. 3. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply. 4. For wheelchair accessible vehicles and specially equipped vehicles the vehicle is not required to comply with respect to adaptation for a person with a disability affecting the frontal impact. Evidence of compliance of the unadapted vehicle is required.
A22	Protective steering	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: B	<p>No Alternatives or Variations</p> <p>For Schedule 1 Vehicles:</p> <ol style="list-style-type: none"> 1. No part of the steering control surface directed towards the driver which can be contacted by a sphere of 165mm in diameter shall present any roughness or sharp edges with a radius of curvature of less than 2.5mm. 2. The steering control shall be designed, constructed and fitted so as not to embody components or accessories, including the horn control and other assemblies, capable of catching in the driver's clothing or jewellery in normal driving movements. 3. The steering control and column assembly as fitted to the vehicle or the steering control itself shall offer a degree of protection to the driver in the event of a frontal impact by absorbing energy. This requirement shall be treated as met if either- <ul style="list-style-type: none"> (a) the vehicle complies with the requirements of paragraph

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
				<p>5.2 of Annex 1 of Directive 74/297/EEC; or</p> <p>(b) the steering control complies with the requirements of paragraphs 5.2, 5.4.3, 5.4.4 and 5.4.5 of Directive 74/297/EEC as last amended by Directive 91/662/EEC.</p> <p>4. The vehicle shall comply with the requirements of paragraph 5.1 of Annex 1 of Directive 74/297/EEC.</p>
A24	Cab impact	Regulation (EU) 2019/2144	Scope: N Applicability: B	No Alterations or Variations
A25	Side impact	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: B	<p>Alternative for M1 and N1 vehicles:</p> <p>1. Approval to the provisions listed in Directive 96/27/EC** Annex II paragraph 3 or UN Regulation No. 95 is required.</p> <p>2. Does not apply to vehicles where the R point of the lowest seat is more than 700 mm above the ground.</p> <p>3. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply.</p> <p>4. For wheelchair accessible vehicles and specially equipped vehicles the vehicle is not required to comply with respect to adaptation for a person with a disability affecting the side impact. Evidence of compliance of the unadapted vehicle is required.</p> <p>For Schedule 1 Vehicles: Not applicable for Schedule 1 Vehicles.</p>
A26	Pole side impact	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: B	<p>Alternative for M1 and N1 vehicles:</p> <p>1. Approval to the provisions listed in UN Regulation No. 135 is required.</p>

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
				<p>2. Does not apply to vehicles where the R point of the lowest seat is more than 700 mm above the ground.</p> <p>3. The requirements according to the category of the base or incomplete vehicle based on maximum mass may apply.</p> <p>4. For wheelchair accessible vehicles and specially equipped vehicles the vehicle is not required to comply with respect to adaptation for a person with a disability affecting the side impact. Evidence of compliance of the unadapted vehicle is required.</p>
A27	Rear impact	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: Component: B Installation: B or C	No Alterations or Variations
A28	112-based eCall in vehicles systems	Regulation (EU) 2015/758	Scope: M1 and N1 Applicability: N/A	No Alterations or Variations
B1	Pedestrian leg and head protection	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: B	No Alterations or Variations
B2	Enlarged head impact zone	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: B	No Alterations or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
B3	Frontal protection system	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: B	No Alternatives or Variations
B4	Advanced emergency braking for pedestrian and cyclist	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: IF B	No Alternatives or Variations
B5	Pedestrian and cyclist collision warning	Regulation (EU) 2019/2144	Scope: M and N Applicability: M3 Class I and M3 Class II: B M2, M3 Class III, N2 and N3 IF B	No Alternatives or Variations
B6	Blind spot information system	Regulation (EU) 2019/2144	Scope: M2, M3, N2 and N3 Applicability: M3 Class I and M3 Class II: B M2, M3 Class III, N2 and N3 IF B	No Alternatives or Variations
B7	Reversing detection	Regulation (EU) 2019/2144	Scope: M and N Applicability: B	No Alternatives or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
B8	Forward vision	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: B	1. Until 31 December 2025, compliance with Directive 77/649/EEC** is acceptable. 2. 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.
B10	Safety glazing	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: Component: X Installation: B or C	1. Windscreen and windows to side of driver shall comply with the technical and marking provisions of UN Regulation No. 43. 2. All other glass shall be safety glazing certified for land transport, and have the appropriate marking: “e” / “E” marked, or BS marked. 3. 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. 4. In the case of a motor caravan, ambulance, hearse, mobile crane, or other special purpose vehicle, the requirements for all window glazing, other than the driver's cab glazing (windshield and side glazing), the material may be either safety glass or rigid plastic glazing that meets the requirements of UN Regulation No. 43. 5. The regular light transmittance 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. 6. Vehicles having a maximum design speed greater than 40km/h may not be fitted with a toughened windscreen. . Until 31 December 2025, for extensions, compliance with Directive 92/22/EEC** is acceptable.

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
B11	Defrost/demist	Regulation (EU) 2019/2144	Scope: M and N Applicability: B	1. Until 31 December 2025, compliance with Directive 78/317/EEC** is acceptable.
B12	Wash/wipe	Regulation (EU) 2019/2144	Scope: M and N Applicability: B	1. Until 31 December 2025, compliance with Directive 78/318/EEC** is acceptable.
B13	Indirect vision devices	Regulation (EU) 2019/2144	Scope: M and N Applicability: Component: X Installation: B or C	<p>No Alternatives or Variations</p> <p>For Schedule 1 Vehicles:</p> <p>1. Paragraph 6.1.1.6. of UN Regulation No. 46 shall not apply.</p> <p>2. In the case where the longitudinal plane of the exterior bodywork on either side of the vehicle adjacent to the driver's position on which an exterior rear-view mirror may be mounted is more than 150 mm inwards from a longitudinal plane passing through the outer edge of the rear tyre(s) on that side of the vehicle the following may apply: Paragraphs 15.2.4.2.1. and 15.2.4.2.2. of UN Regulation No. 46, in the second paragraph in each case, for 1 m shall be substituted 2.125 m and for 4 m Shall be substituted 10 m.</p> <p>3. Field of view requirements do not apply to optional mirrors.</p> <p>“Installation Check” means a check that the devices required are fitted, are securely attached to the vehicle so as to minimize the effects of vibration, and that the field of view requirements are met.</p>
B14	Acoustic Vehicle Alerting Systems devices	Regulation (EU) No 540/2014 Or UN Regulation No. 138.01	Scope: M and N Applicability: A or C.	No Alternatives or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
C1	Steering equipment	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: A or C	In the case of a Manual or Power Assisted System, and where an approval has been granted or test report has been issued for that system prior to its modification, a test will be conducted to ensure no obvious defect or undue stiffness is evident. “Manual or Power Assisted System” means: a system that will operate in the event of failure of any power supply or assistance.
				For Schedule 1 Vehicles: 1. Compliance with Directive 70/311/EEC** is acceptable.
C2	Lane departure warning system	Regulation (EU) 2019/2144	Scope: M2, M3, N2 and N3 Applicability: X	No Alternatives or Variations
C3	Emergency lane keeping system	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: IF B	No Alternatives or Variations
C4	Braking	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: A	1. For O2, O3 and O4 trailers, the following alternative requirement may apply: Tests as prescribed in UN Regulation No. 13, or alternative equivalent technical requirements subject to the decision of the Approval Authority
C6	Brake assist	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: A	No Alternatives or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
C7	Stability control	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: B	No Alternatives or Variations
C8	Advanced emergency braking on heavy-duty vehicles	Regulation (EU) 2019/2144	Scope: M2, M3, N2 and N3 Applicability: X	No Alternatives or Variations
C9	Advanced emergency braking on light-duty vehicles	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: IF X	No Alternatives or Variations
C10	Tyre safety and environmental performance	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: X	No Alternatives or Variations
C11	Spare wheels and run-flat systems	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: N/A	No Alternatives or Variations
C13	Tyre pressure monitoring for light duty vehicles	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: IF X	No Alternatives or Variations
C14	Tyre pressure monitoring for heavy-duty vehicles	Regulation (EU) 2019/2144	Scope: M2, M3, N2, N3, O3 and O4 Applicability: IF X	1. Date for the refusal to grant national individual vehicle approval for trailers of Category O3 and O4: 31 December 2025.
C15	Tyre installation	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: B or C	No Alternatives or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
D	Audible warning	Regulation (EU) 2019/2144	Scope: M and N Applicability: Component: X Installation: B or C	1. The vehicle shall be fitted with an audible warning device which when operated emits a continuous uniform sound capable of giving audible warning of the approach or position of the vehicle to which it is fitted.
D2	Radio interference (electromagnetic compatibility)	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: A or B	1. No Alterations or Variations except the manufacturer may submit a declaration Compatibility of the relevant components installed, that they, or the vehicle as a whole comply with the requirements, and in such case an Installation Check will be conducted. “Installation Check” means a manufacturer’s declaration that installed components are compliant with the requirements and inspection of a sample of installed components as the approving authority deem necessary. 2. 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	Scope: M and N Applicability: M1 and N1: A M2, M3, N2 and N3: IF D	No Alterations or Variations For Schedule 1 Vehicles: 1. In the case of devices to prevent unauthorised use the manufacturer may as an alternative to an approval or test report issue a declaration of the device(s) fitted and that they comply with the applicable regulatory act, and in such case an Installation Check will be conducted. 2. The vehicle shall be fitted with some form of anti-theft device, that is to say, a mechanical, electrical or electronic immobiliser or a combination of these (in addition to any key operated switch normally used to start the engine) that prevents the vehicle being driven or moved under its own power. Such

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
				<p>device(s) shall comply with the following:</p> <p>(a) No anti-theft device shall operate on the braking system.</p> <p>(b) If any anti-theft device is, or incorporates, any mechanical device that acts upon a system that affects the control of the vehicle (e.g. the steering control)-</p> <ul style="list-style-type: none"> (i) it shall not be possible to start the engine in the normal way until every such mechanical device has been deactivated, (ii) it shall not be possible to activate any such mechanical device while the engine is running, and (iii) the action of activating any such mechanical device shall be distinct and separate from that of stopping the engine. Any alarm system or immobiliser fitted to a vehicle shall comply with paragraph 1 or 2 as applicable. <p>3. Optional panic alarm not forming part of an alarm system under paragraphs 1 or 2 shall comply with the following:</p> <p>(a) The alarm signal shall be audible and in addition, may include optical alarm devices, or be a radio alarm, or any combination of the above.</p> <p>(b) The technical requirements of Directive 74/61/EEC as last amended by Directive 95/56/EC, Annex VI, Part II, paragraphs 8.2 to 8.8, 9.1.2 to 9.2.1, 9.2.3 to 9.4, 9.6, 9.9 to 9.10, and 9.11.2 to 11 inclusive.</p> <p>(c) Unsetting the panic alarm shall immediately cut the alarm signal.</p> <p>(d) Any reference to “alarm” or “AS” shall be taken to mean “panic alarm”.</p> <p>An “Installation Check” means an inspection of installed components as</p>

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
				the approving authority deem necessary and in the case of an Immobiliser or Alarm system a completed installation certificate except that a panic alarm a test report is required.
D4	Protection of vehicle against cyberattacks	Regulation (EU) 2019/2144	Scope: M and N Applicability: M1 and N1:X M2, M3, N2, N3: B	No Alterations or Variations
D5	Speedometer	Regulation (EU) 2019/2144	Scope: M and N Applicability: B or C	1. Until 31 December 2025, compliance with Directive 75/443/EEC** is acceptable
D6	Odometer	Regulation (EU) 2019/2144	Scope: M and N Applicability:	No Alterations or Variations
D7	Speed limitation devices	Regulation (EU) 2019/2144	Scope: M2, M3, N2 and N3 Applicability: X	No Alterations or Variations
D8	Intelligent speed assistance	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF B	No Alterations or Variations
D9	Identification of controls, tell-tales and indicators	Regulation (EU) 2019/2144	Scope: M and N Applicability: A or C	No Alterations or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
D10	Heating systems	Regulation (EU) 2019/2144	Scope: M, N and O	No Alterations or Variations
			Applicability: B or C	For Schedule 1 Vehicles: 1. The technical provisions of: Directive 2001/56/EC, paragraph 3 of Annex II excluding paragraph 3.1.
D11	Light signalling devices	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: X	No Alterations or Variations
D12	Road illumination devices	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: X	No Alterations or Variations
D13	Retro-reflective devices	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: X	No Alterations or Variations
D14	Light sources	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: X	No Alterations or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
D15	Installation of light signalling, road illumination and retro-reflective devices	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: B or C	<p>1. The requirements are limited to the installation of approved components as appropriate to the location, of the requisite number, installed in the specified positions, with the required geometric visibility and that operate in accordance with the technical requirements of UN Regulation No. 48.</p> <p>2. Dipped beam headlamps shall be suitable for left hand rule of the road traffic*.</p> <p>3. If there is only one rear fog lamp, it shall be on the right-hand side of the vehicle*.</p> <p>4. For category M1 and N1:</p> <p>(a) Paragraphs 6.2.6.2 and 6.2.6.3 (Headlamp levelling) shall not apply except where dipped beam headlamps with light sources having an objective luminous flux which exceeds 2000 lumens is fitted;</p> <p>(b) In the case of a rear direction indicator which is one of a number of lamps having a common housing and fitted to a left-hand drive vehicle, paragraph 6.5.4.1 of UN Regulation No. 48 shall apply as if for “400 mm” there were substituted “480 mm”.</p>
D16	Emergency Stop Signal	Regulation (EU) 2019/2144	Scope: M and N Applicability: X	No Alterations or Variations
D17	Headlamp cleaners	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF X	No Alterations or Variations
D18	Gear shift indicator	Regulation (EU) 2019/2144	Scope: M1 Applicability: N/A	No Alterations or Variations
E1	Alcohol interlock installation facilitation	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF A	No Alterations or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
E2	Driver drowsiness and attention warning	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF B	1. Not required on vehicles that are limited to 65km/h as per the certificate of conformity.
E4	Driver availability monitoring system	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF B	No Alterations or Variations
E5	Event data recorder	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF B	No Alterations or Variations
E6	Systems to replace driver's control	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF B	No Alterations or Variations
E7	Systems to provide the vehicle with information on state of vehicle and surrounding area	Regulation (EU) 2019/2144	Scope: M and N Applicability: IF B	No Alterations or Variations
F1	Registration plate space	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: B or C	1. Compliance with Directive 70/222/EEC** is acceptable. For Schedule 1 Vehicles: 1. The technical provisions of Directive 70/222/EEC** Or Sufficient space (width 520mm, height 120mm). Or width 340mm, height 240mm) shall be provided for a registration plate.
F2	Reversing motion	Regulation (EU) 2019/2144	Scope: M and N Applicability: B	No Alternatives or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
F3	Door latches and hinges	Regulation (EU) 2019/2144	Scope: M1 and N1 Applicability: B or C	No Alternatives or Variations
F4	Door entry steps, handholds and running boards	Regulation (EU) 2019/2144	Scope: M1, N1, N2 and N3 Applicability: B or C	No Alternatives or Variations
F5	External projections	Regulation (EU) 2019/2144	Scope: M1 Applicability: A or C	<p>1. Handles, hinges, push buttons and fuel tank filler caps shall not project more than 40 mm from the external surface unless they cannot under any circumstance project beyond the extreme outer edge of the vehicle, in which case they may project by up to 50 mm from the external surface. All handles shall be enclosed in a protective surround or be recessed, unless they cannot in any circumstances project beyond the extreme outer edge of the vehicle.</p> <p>2. The open ends of door handles which rotate parallel to the plane of the door shall be turned back towards the plane of the door. Such open ends shall be directed rearwards unless the handles cannot under any circumstances project beyond the extreme outer edge of the vehicle and at least one of the following requirements is met-</p> <ul style="list-style-type: none"> (a) the open end of the handle is shielded to the front by a protective surround, or (b) the open end of the handle is recessed into the vehicle bodywork, or (c) the gap measured laterally between the open end of the handle and the vehicle body is no more than 2 mm when the handle is in its normal position with the door latched. <p>The open ends of handles, which pivot outwards in any direction, shall face either rearwards or downwards, unless they have an independent return mechanism and cannot project more</p>

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
				<p>than 15 mm from the external surface should the return mechanism fail.</p> <p>3. Until 31 December 2025, compliance with Directive 74/483/EEC** is acceptable.</p>
F6	External projections of commercial vehicle cabs	Regulation (EU) 2019/2144	Scope: N Applicability: B	No Alternatives or Variations
F7	Statutory plate and vehicle identification number	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: B or C	1. At the discretion of the Approval Authority, the individual vehicle approval number shall not be required on the multi-stage statutory plate.
F8	Towing devices	Regulation (EU) 2019/2144	Scope: M and N Applicability: B or C	1. An Installation Check “Installation Check” means a check to confirm the presence and that towing hooks are securely attached to major structural aspects of the vehicle.
F9	Wheel guards	Regulation (EU) 2019/2144	Scope: M1 Applicability: B or C	No Alternatives or Variations
F10	Spray suppression systems	Regulation (EU) 2019/2144	Scope: N and O Applicability:	No Alternatives or Variations
F11	Masses and dimensions	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: B or C	<p>1. Until 31 December 2025, compliance with Directive 97/27/EC** is acceptable, subject to S.I. No. 5/2003.</p> <p>2. Directive 97/27/EC, Annex I, Paragraph 7.6. does not apply to a motor vehicle having 4 or more axles where the distance between the foremost and rearmost axles exceeds 6.4 m.</p> <p>3. Until 31 December 2025, compliance with Directive 92/21/EEC** is acceptable</p>

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
F12	Mechanical couplings	Regulation (EU) 2019/2144	Scope: M, N and O Applicability: IF Component: A Installation: B or C	No Alterations or Variations plus An Installation Check and Securely attached to structural parts of the vehicle. Couplings fitted as original equipment to mass produced vehicles which are compatible with trailer coupling devices complying with the requirements of Annex 5 to UN Regulation No. 55 are permitted. “Installation Check” means confirmation that the components are “e” / “E” marked and securely installed in accordance with supporting information provided by the vehicle manufacturer.
F13	Vehicles intended for the transportation of dangerous goods	Regulation (EU) 2019/2144	Scope: N and O Applicability: A or B	No Alternatives or Variations
F14	General bus construction	Regulation (EU) 2019/2144	Scope: M2 and M3 Applicability: B or C	No Alternatives or Variations
F15	Bus strength of superstructure	Regulation (EU) 2019/2144	Scope: M2 and M3 Applicability: N/A	No Alternatives or Variations
F16	Flammability in buses	Regulation (EU) 2019/2144	Scope: M3 Applicability: B	No Alternatives or Variations
G1	Sound level	Regulation (EU) No 540/2014 Or UN Regulation No. 51.03	Scope: M and N Applicability: A or C	No Alternatives or Variations For Schedule 1 Vehicles: 1. The vehicle shall be fitted with an exhaust system including a silencer such that the exhaust gases shall not escape into the atmosphere without first passing through the silencer. 2. When- (a) the vehicle is held stationary on a level surface such that there is an

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
				<p>unobstructed area not less than 3 metres wide all around the vehicle; and</p> <p>(b) the engine by which the vehicle is propelled is run at a constant rotational speed of 3/4 S (“S” means the rotational speed at which maximum power is produced).</p> <p>The noise measured at 0.5 metres from the exhaust outlet at 45 degrees to the axis of the outlet pipe in a horizontal plane, shall not exceed 99 db(A).</p>
G2	Tailpipe emissions of vehicle in lab	Regulation (EC) No 715/2007	<p>Scope: M1, M2, N1 and N2</p> <p>Applicability: A</p>	<p>No Alternatives or Variations</p> <p>For Schedule 1 Vehicles:</p> <p>1. The vehicle shall not emit any avoidable smoke or avoidable visible vapour. When the engine by which the vehicle is propelled is running without load at a normal idling speed, the carbon monoxide content of the exhaust emissions from the engine shall not exceed 0.3% of the total exhaust emissions from the engine by volume.</p> <p>2. If the engine by which the vehicle is propelled is run without a load at a rotational speed of 2,000 revolutions per minute, the hydrocarbon content of the exhaust emission from the engine shall not exceed 0.12% if the vehicle is one to which paragraph 2(b) or (c) applies and the engine by which it is propelled is run without a load at a fast idling speed-</p> <p>(a) the carbon monoxide content of the exhaust emissions from the engine shall not exceed 0.3% of the total exhaust emissions from the engine by volume;</p> <p>(b) the hydrocarbon content of the exhaust emissions from the engine shall not exceed 0.02% of the total exhaust emissions from the engine by volume; and</p> <p>(c) the lambda value shall be between the relevant limits. A free acceleration</p>

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
				<p>test such that the coefficient of absorption of the exhaust emissions from the engine immediately after leaving the exhaust shall not exceed –</p> <ul style="list-style-type: none"> a) for an M1 or N1 vehicle, 1.5 per metre or b) for an N2, M2, N3 or M3 vehicle: <ul style="list-style-type: none"> i) if the engine of the vehicle is turbocharged, 3.0 per metre or ii) in any other case, 2.5 per metre is allowed as an alternative. <p>“co-efficient of absorption” is to be construed in accordance with paragraph 3.5 of Annex VII to Directive 72/306/EEC;</p> <p>“free acceleration” has the same meaning as in Annex II to Directive 77/143/EEC as last amended by Directive 92/55/EEC.</p>
G3	Tailpipe emissions of engine in lab	Regulation (EC) No 595/2009	Scope: M and N Applicability: A	No Alternatives or Variations
G4	Tailpipe emissions on the road	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	Scope: M and N Applicability: A	No Alternatives or Variations
G5	Durability of tailpipe emissions	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	Scope: M and N Applicability: A	No Alternatives or Variations
G6	Crankcase emissions	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	Scope: M and N Applicability: A	No Alternatives or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
G7	Evaporative emissions	Regulation (EC) No 715/2007	Scope: M1, M2, N1 and N2 Applicability: A	No Alternatives or Variations
G8	Low-temperature tailpipe emissions in lab	Regulation (EC) No 715/2007	Scope: M1, M2, N1 and N2 Applicability: A	No Alternatives or Variations
G9	On-board diagnostics	Regulation (EC) No 715/2007 Regulation (EC) No 595/2009	Scope: M and N Applicability: A	1. For vehicle approved to Regulation (EC) No. 595/2009: Additional provisions concerning monitoring requirements as set out in Paragraph 2.3.1.2. of Annex 9A to UNECE Regulation No. 49.
G10	Absence of defeat device	Regulation (EC) No 715/2007	Scope: M and N Applicability: A	No Alternatives or Variations
G11	Auxiliary emissions strategies	Regulation (EC) No 715/2007	Scope: M and N Applicability: A	No Alternatives or Variations
G12	Anti-tampering	Regulation (EC) No 715/2007	Scope: M and N Applicability: A	No Alternatives or Variations
G13	Recyclability	Directive 2005/64/EC	Scope: M1 and N1 Applicability: N/A	No Alternatives or Variations
G14	Air-conditioning systems	Directive 2006/40/EC	Scope: M1 and N1 Applicability: B	No Alternatives or Variations

No.	Subject	Regulatory Act	Scope and Applicability	Alternative Technical Requirements for national individual vehicle approval
H1	Access to vehicle OBD information and vehicle repair and maintenance information	Regulation (EU) 2018/858, Articles 61 to 66 and Annex X.	Scope: M, N and O Applicability: B or C	1. This requirement shall not apply for national individual vehicle approval.
H2	Software update	Regulation (EU) 2018/858, Annex IV UN Regulation No 156	Scope: M, N and O Applicability: X	No Alternatives or Variations



GIVEN under my Official Seal,
13 May, 2024.

EAMON RYAN,
Minister for Transport.

EXPLANATORY NOTE

(This note is not part of the Instrument and does not purport to be a legal interpretation.)

These Regulations give full effect to Regulation (EU) 2019/2144 on type-approval requirements for motor vehicles and their trailers, and systems, components and separate technical units intended for such vehicles, as regards their general safety and the protection of vehicle occupants and vulnerable road users, and give full effect to Articles 11 and 13 of Regulation (EC) No 715/2007 on type approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information and Articles 9 and 11 of Regulation (EC) No 595/2009 on type-approval of motor vehicles and engines with respect to emissions from heavy duty vehicles (Euro VI) and on access to vehicle repair and maintenance information.

These Regulations replace Schedules 1 and 2 to the European Union (Road Vehicles: Type-Approval and Market Surveillance) Regulations 2020 (SI 556/2020) relating to national type approvals:

Schedule 1 describes the certain varieties of vehicle that are eligible for national individual vehicle approval. These Regulations remove the following varieties of vehicle from Schedule 1:

- Ambulances
- Armoured vehicles
- Vehicles that were previously registered in another jurisdiction
- Vehicles that were manufactured using parts from a registered vehicle.

Schedule 2 updates the requirements for national small series type-approval and national individual vehicle approval, including special purpose vehicles pursuant to these schemes with respect to the systems provided for in Regulation (EU) 2019/2144 and in the delegated acts and implementing acts adopted pursuant to that Regulation. It incorporates the systems provided for in Regulation (EU) 2019/2144 and in the delegated acts and implementing acts adopted pursuant to that Regulation into the national small series type-approval and national individual vehicle approval schemes.

These Regulations revoke a number of statutory instruments in full or part of, that have until now, regulated some of the matters that these Regulations address. The requirements for defeat devices, defeat strategies and pollution control devices are carried forward into these Regulations.

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