

SCHEDULE

COMPULSORY SPECIFICATION FOR MOTOR VEHICLES OF CATEGORY N1

1 Scope

1.1 This specification covers the requirements for motor vehicles¹ of category N1, not previously registered or licensed in South Africa, and motor vehicles assembled from new bodies and used parts from earlier designs of motor vehicle models, designed or adapted for operation on a public road.

Note¹ Motor vehicles include motor vehicle models and variants

1.2 The requirements of this specification shall, in so far as the parts already incorporated are concerned, apply in respect of an incomplete motor vehicle supplied for further manufacture by one manufacturer to another, and the entire specification shall apply to the vehicle after completion thereof by the last-mentioned manufacturer. In addition, the requirements shall apply to bodies manufactured and/or imported for the purposes of incorporating new or used parts of motor vehicle models previously homologated (or previously produced) by other manufacturers.

1.3 The requirements of this specification shall take effect upon promulgation of this specification and according to the dates specified in the text and in Table 1.

1.4 Compliance with the referenced SANS and/or UNECE Regulations minimum levels and/or later levels is acceptable, however in certain instances there is local legislation that must also be complied with for vehicles meant for the local market (i.e. National Road Traffic Act, Electronic Communications Act...etc.).

2 Definitions

For the purposes of this specification, the following definitions apply:

2.1 airbag assembly

device that is installed to supplement safety belts and restraint systems in power-driven vehicles which, in the event of a severe impact affecting the vehicle, automatically deploys a flexible structure intended to limit, by compression of the gas contained within it, the gravity of the contact of one or more parts of the body of an occupant of the vehicle with the interior of the passenger compartment

2.2 builder

person who builds a category N1 motor vehicle, and "build" has a corresponding meaning

2.3 category N1 motor vehicle, hereinafter referred to as a vehicle

motor vehicle that has a maximum mass not exceeding 3.5t, that has at least four wheels (or, provided that the maximum mass exceeds 1 t, at least 3 wheels), and that is used for the carriage of goods

2.4 child restraint

arrangement of components which may comprise a combination of straps or flexible components with a securing buckle, adjusting devices, attachments, and, in some cases, a supplementary chair or an impact shield or both, capable of being anchored to a power-driven vehicle. It is so designed as to diminish the risk of injury to the wearer, in the event of a collision or of an abrupt deceleration of the vehicle, by limiting the mobility of the wearer's body

2.5 homologation

is a process of establishing the compliance of a model of motor vehicle and approval being granted by the regulatory authority, prior to it being introduced for sale

2.6 importer

person who imports a category N1 motor vehicle, and "import" has a corresponding meaning

2.7 manufacturer

person who manufactures, produces, assembles, alters, modifies or converts a category M1 motor vehicle, and "manufacture" has a corresponding meaning

2.8 model

manufacturer's description for a series of vehicle designs that do not differ in respect of body shell, cab structure, profile, or the number of axles, by which they are introduced to South Africa, by a specific source.

2.8.1 The Regulatory Authority reserves the right to decide which variations or combinations of variations constitute a new model, and might also take cognisance of the classification system applied in the country of origin of the design

2.8.2 The following variations do not necessarily constitute a new model:

- a) a variant of the model in relation to trim or optional features for which compliance has been fully demonstrated;
- b) different engine and transmission combinations, including petrol and diesel engines, and manual and automatic transmissions;
- c) minor variations in profile, such as front air dams or rear spoilers;
- d) air management systems; and
- e) a different number of doors.

2.9 passenger airbag

airbag assembly intended to protect the occupants of seats other than the driver's in the event of a collision

2.10 proof of compliance

the authentic evidence of compliance with any of the requirements of this compulsory specification and from a source defined in "Source of Evidence" in Annexure A.

2.11 public road

road, street or thoroughfare, including the verges, or any other place, whether a thoroughfare or not, to which the public or sections of the public have the right of access and that they commonly use

2.12 manufacturer, importer or builder (MIB)

any manufacturer, importer or builder required to be registered in terms of regulation 38 of the National Road Traffic Act

2.13 regulatory authority

an organization appointed by the Minister of the Department of Trade, Industry and Competition to administer this compulsory specification on behalf of the South African Government

2.14 connected vehicles

connected vehicles are those equipped with advanced communication technologies that allow the exchange of information, through different communication channels, between the various elements of the transport system (i.e. vehicle to vehicle, vehicle to infrastructure, vehicle to network...etc.)

3 General requirements

3.1 Requirements for lights and lighting equipment

3.1.1 Lights

The lights fitted to a vehicle shall comply with the requirements given in:

SANS 20037:2012 Edition 4 - Uniform provisions concerning the approval of filament lamps for use in approved lamp units of power-driven vehicles and of their trailers,

SANS 20099:2002 Edition 2 - Uniform Provisions Concerning the approval of Gas-Discharge Light sources for use in approved Gas-Discharge lamp units of power-driven vehicles,

SANS 20128:2019 Edition 1 - Uniform Provisions Concerning the approval of light emitting diode (LED) Light Sources for use in approved Gas-Discharge lamp units of power-driven vehicles,

SANS 20001:1992 Edition 1 - Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam and/or a driving beam and equipped with filament lamps of categories R2 and/or HS1,

SANS 20005:2012 Edition 2 - Uniform provisions concerning the approval of power-driven vehicle's sealed-beam headlamps (SB) emitting a European asymmetrical passing beam or a driving beam or both,

SANS 20008:2004 Edition 2 - Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with halogen filament lamps (H1, H2, H3, HB3, HB4, H7, H8, H9, HIR1, HIR2 and/or H11),

SANS 20020:2008 Edition 2 - Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with halogen filament lamps (H4 lamps),

SANS 20031:2012 Edition 2 - Uniform provisions concerning the approval of power-driven vehicle's sealed-beam headlamps (SB) emitting a European asymmetrical passing beam or a driving beam or both,

SANS 20098:2007 Edition 2 - Uniform provisions concerning the approval of motor vehicle headlamps equipped with gas-discharge light sources,

SANS 20112:2011 Edition 2 - Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or light-emitting diode (LED) modules,

SANS 20113:2019 Edition 1 - Uniform provisions concerning the approval of motor vehicle headlamps emitting a symmetrical passing beam or a driving beam or both and equipped with filament, gas-discharge light sources or LED modules,

SANS 20003:2005 Edition 2 - Uniform provisions concerning the approval of retro-reflective devices for power-driven vehicles and their trailers,

SANS 20004:2012 Edition 2 - Uniform provisions concerning the approval of devices for the illumination of rear registration plates of power-driven vehicles and their trailers,

SANS 20006:2012 Edition 3 - Uniform provisions concerning the approval of direction indicators for power-driven vehicles and their trailers,

SANS 20007:2018 Edition 4 - Uniform provisions concerning the approval of front and rear position (side) lamps, stop-lamps and end-outline marker lamps for power-driven vehicles and their trailers,

SANS 20019:2012 Edition 3 - Uniform provisions concerning the approval of power-driven vehicle front fog lamps,

SANS 20023:2012 Edition 3 - Uniform provisions concerning the approval of reversing lights for power-driven vehicles and their trailers,

SANS 20038:2018 Edition 1 - Uniform provisions concerning the approval of rear fog lamps for power-driven vehicles and their trailers,

SANS 20077:2019 Edition 1 - Uniform provisions concerning the approval of parking lamps for power-driven vehicles,

SANS 20087:2005 Edition 1 - Uniform provisions concerning the approval of daytime running lamps for power-driven vehicles,

SANS 20091:2007 Edition 2 - Uniform provisions concerning the approval of side-marker lamps for motor vehicles and their trailers,

SANS 20119:2008 Edition 1 - Uniform provisions concerning the approval of cornering lamps for power-driven vehicles.

3.1.2 Lighting

Lighting shall be fitted to a vehicle and shall comply with the requirements given in **SANS 20048:2017 Edition 4** - Uniform provisions concerning the approval of vehicles with regard to the installation of lighting and light-signalling devices, provided that:

- a) the requirements for the installation of retro-reflectors as given in 6.14, 6.15, 6.16 and 6.17 of SANS 20048 may be met by the use and fitting of retro-reflectors that are defined in the relevant regulations of the National Road Traffic Act, and, in addition, the requirements may also be met by the use and fitting of retro-reflectors that are integral portions of any other light lens assembly.

3.2 Requirements for indirect vision

3.2.1 Devices for indirect vision

Devices for indirect vision shall be fitted to a vehicle and shall comply with the requirements given in **SANS 20046:2006 Edition 2** - Uniform provisions concerning the approval of devices for indirect vision and of motor vehicles with regard to the installation of these devices.

3.3 Safety glazing for use in road vehicles

3.3.1 Windscreens

3.3.1.1 A windscreen shall be fitted to a vehicle and shall be of safety glass that complies with the requirements given in **SANS 20043:2005 Edition 2** – Uniform provisions concerning the approval of safety glazing materials and their installation on vehicles.

3.3.1.2 Windows and partitions

3.3.1.3 Safety glazing partitions and windows fitted to a vehicle shall be of safety glazing that complies with the requirements given in the said **SANS 20043:2005 Edition 2** – Uniform provisions concerning the approval of safety glazing materials and their installation on vehicles.

3.3.2 Windscreen wipers

A vehicle shall be fitted with at least one windscreen wiper that is capable of operation by means other than manual, and the windscreen wiper blade, when in operation, shall wipe the outside of the windscreen directly in front of the driver, evenly and efficiently.

3.4 Requirements for brakes and braking equipment

3.4.1 Braking equipment including an antilock braking system (**ABS**) and electronic stability control (**ESC**) system shall be fitted to a vehicle and shall comply with the requirements in either **SANS 20013:2019 Edition 4** - Uniform provisions concerning the approval of vehicles of categories M, N and O with regard to braking or **SANS 20013H:2019 Edition 3** - Uniform provisions concerning the approval of vehicles of passenger cars with regard to braking.

3.4.1.1 For the purposes of electronic stability control (**ESC**) only, compliance to **UNECE R140.00** - Uniform provisions concerning the approval of passenger cars with regard to Electronic Stability Control (**ESC**) Systems is accepted.

3.5 Requirements for interior fittings, controls, steering mechanism and audible warning devices

3.5.1 Interior fittings

No fittings shall be installed inside the passenger compartment of a vehicle unless such fittings comply with the requirements of section 3.5.1.1:

3.5.1.1 the requirements given in **SANS 20021:1993 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to their interior fittings.

3.5.2 Controls

3.5.2.1 General

3.5.2.1.1 Steering: All steering equipment that are fitted to a vehicle, and that are required for the operation of the vehicle, shall comply with the requirements given in **UNECE R79.01** - Uniform provisions concerning the approval of vehicles with regard to steering equipment

3.5.2.1.2 Hand controls: All controls that are fitted to a vehicle, and that are required for the operation of the vehicle, shall comply with the requirements given in **UNECE R121.00** - Uniform provisions concerning the approval of vehicles with regard to the location and identification of hand controls, tell-tales and indicators.

3.5.2.1.3 A vehicle may have a central steering configuration.

3.5.2.2 Right-hand drive

A vehicle shall be of a right-hand drive configuration, except as allowed in terms of 3.5.2.1.3

3.5.3 Audible warning devices

A vehicle shall be fitted with one or more audible warning devices such that, when they are operated, a continuous sound is emitted in accordance with **SANS 20028:1972 Edition 1** - Uniform provisions concerning the approval of audible warning devices and of motor vehicles with regard to their audible signals.

3.5.4 Advanced driver-assistance systems (ADAS)

For vehicles fitted with advanced driver-assistance systems (ADAS) such as the below (non-exhaustive list), the systems shall comply with the relevant UNECE Regulations where applicable:

- a) blind spot detection systems;
- b) lane departure warnings;
- c) adaptive cruise control; and
- d) Advanced Emergency Braking System (AEBS) - **UNECE R152.00** Uniform provisions concerning the approval of motor vehicles with regard to the Advanced Emergency Braking System (AEBS) for M1 and N1 vehicles.

3.5.5 For vehicles fitted with a level of autonomous function, the applicant shall supply proof of compliance with the relevant UNECE Regulations of the specific system/s that enable the autonomous function in the vehicle.

3.6 Requirements for impact protection

3.6.1 A vehicle must comply with the frontal, side and rear impact requirements in section 3.6.1.1, 3.6.1.2 and 3.6.1.3:

3.6.1.1 Frontal Impact

3.6.1.1.1 A vehicle must comply with the requirements given in **UNECE R33.00** - Uniform provisions concerning the approval of vehicles with regard to the behaviour of the structure of the impacted vehicle in a head-on collision from 1st January 2026.

3.6.1.1.2 A vehicle must comply with the requirements given in **UNECE R94.03** - Uniform provisions concerning the approval of vehicles with regard to the protection of occupants in the event of a frontal collision from 1st January 2026.

3.6.1.2 Side impact

The protection of occupants of the vehicle in a side impact collision shall comply with the requirements given in **SANS 20095: 2017 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to the protection of occupants in the event of a lateral collision from 1st January 2026.

3.6.1.3 Rear impact

A vehicle must comply with the requirements given in **UNECE R32.00** - Uniform provisions concerning the approval of vehicles with regard to the behaviour of the structure of the impacted vehicle in a rear-end collision and/or **UNECE R153.00** - Uniform provisions concerning the approval of vehicles with regard to fuel system integrity and safety of electric power train in the event of a rear-end collision from 1st January 2026.

3.7 Requirements for door latches, hinges, entrances and exits

3.7.1 Door latches and hinges

Side doors fitted as a means of entrance or exit in a vehicle shall have door latches and hinges that comply with the requirements given in **SANS 20011:1981 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to door latches and door retention components.

3.7.2 Entrances and exits

The means of entrance to and exit from a vehicle shall comply with the requirements given in regulation 210 of the National Road Traffic Act.

3.8 Requirements for seats, seat anchorages, head restraints, restraining device anchorages, restraining devices (safety belts) and airbags

3.8.1 Seats, seat anchorages and head restraints

A vehicle shall be fitted with seats, seat anchorages and head restraints that comply with the requirements given in **SANS 20017:2004 Edition 2** - Uniform provisions concerning the approval of vehicles with regard to the seats, their anchorages and any head restraints.

3.8.2 Restraining device anchorages

3.8.2.1 A vehicle shall be fitted with restraining device anchorages that comply with the requirements given in **SANS 20014:2006 Edition 2** - Uniform provisions concerning the approval of vehicles with regard to safety belt anchorages, ISOFIX anchorages systems and ISOFIX top tether anchorages.

3.8.2.2 For the purposes of **ISOFIX** only, compliance to **UNECE R145.00** - Uniform provisions concerning the approval of vehicles with regard to ISOFIX anchorage ISOFIX top tether anchorages and i-Size seating positions is accepted.

3.8.3 Restraining devices (safety belts)

A vehicle shall be fitted with restraining devices that comply with the requirements given in **SANS 20016:2017 Edition 4** - Uniform provisions concerning the approval of: I. Safety-belts, restraint systems, child restraint systems and ISOFIX child restraint systems for occupants of power-driven vehicles, II. Vehicles equipped with safety-belts, safety-belt reminder, restraint systems, child restraint systems and ISOFIX child restraint systems.

3.8.4 Child restraints

In the case of any vehicle manufactured with child restraints installed, such child restraints shall comply with **VC 8033** - Compulsory Specification for Child restraints for use in motor vehicles.

3.8.5 Airbag

3.8.5.1 A vehicle shall be fitted with an airbag assembly that is intended to protect the driver and comply with the requirements given in **SANS 20012:1994 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to the protection of the driver against the steering mechanism in the event of impact.

3.8.5.2 A vehicle shall be fitted with airbags that are:

- i. intended to protect the front left occupant/s other than the driver and comply with the requirements given in **UNECE R94.03** - Uniform provisions concerning the approval of vehicles with regard to the protection of occupants in the event of a frontal collision; and
- ii. intended to protect all occupants and comply with the requirements given in **UNECE R94.03** - Uniform provisions concerning the approval of vehicles with regard to the protection of occupants in the event of a frontal collision from 1st January 2026.

3.9 Requirements for unauthorized use

3.9.1 To prevent unauthorized use, a vehicle shall be fitted with at least:

- a) an ignition lock and locking mechanism that complies with the requirements given in **UNECE R18.01** - Uniform provisions concerning the approval of motor vehicles with regard to their protection against unauthorized use, and/or

- b) an electronic immobiliser that complies with the requirements given in **UNECE R116.00** - Uniform technical prescriptions concerning the protection of motor vehicles against unauthorized use.

3.10 Cyber security

3.10.1 Connected vehicles shall comply with the requirements given in **UNECE R155.00** - Cyber security and cyber security management system.

3.11 Requirements for warning triangles

A vehicle shall be supplied with at least one warning triangle as part of the vehicle equipment that complies with the requirements given in **SANS 20027:1998 Edition 1** - Uniform provisions for the approval of advance-warning triangles.

4 Requirements for the control of environmental interference

4.1 Suppression of radio and television interference

4.1.1 A vehicle, including its components and its accessories, shall comply with the requirements given in **SANS 20010:2010 Edition 2** - Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility.

4.1.2 The vehicles that are meant for the local market shall also comply with the requirements given in the Electronic Communications Act 36 of 2005.

4.2 Suppression of atmospheric pollution

4.2.1.1 The gaseous and particulate emissions from the vehicle shall comply with the requirements of **UNECE R83.06** - Uniform provisions concerning the approval of vehicle with regard to the emissions of pollutants according to engine fuel requirements to the minimum **Euro 5a** emission standard from **01 September 2023** and to the minimum **Euro 5b** emission standard from **01 September 2025**.

4.2.1.2 The **Type VI Test** - Verifying the average exhaust emissions of carbon monoxide and hydrocarbons after a cold start at low ambient temperature from the requirements of **UNECE R83.06** is excluded from this Compulsory Specification.

4.2.1.3 The **In-service conformity** requirements of **UNECE R83.06** are excluded from this Compulsory Specification.

4.3 Vehicle Fuel Economy and Carbon Dioxide Emission Labelling

4.3.1 Every petrol and diesel powered vehicle shall have applied to the inside of its windscreen a fuel consumption label.

4.3.2 The label shall be self-adhesive and removable and of a type suitable for application to the windscreen.

4.3.3 The Label shall be placed in the bottom corner of the windscreen.

4.3.4 The fuel consumption label shall contain the following statements and information.

- The words "FUEL CONSUMPTION" or "FUEL ECONOMY" as a heading
- The vehicle make, model or description.
- The fuel consumption and carbon dioxide emissions values as determined by **SANS 20101:2006 Edition 1** - Uniform provisions concerning the approval of passenger cars powered by an internal combustion engine only, or powered by a hybrid electric power train with regard to the measurement of the emission of carbon dioxide and fuel consumption and/or the measurement of electric energy consumption and electric range and of categories M1 and N1 vehicles powered by an electric power train only with regard to the measurement of electric energy consumption and electric range recorded in kilowatts per 100 km and grams per km respectively.

4.3.5 Where a common label is utilised covering different engine, body styles or transmissions the fuel consumption and carbon dioxide figures quoted shall be those as applicable to the worst case combination.

4.3.6 As an alternative to sections 4.3.1, 4.3.2 and 4.3.3 above, an internally mounted label visible through the windscreen of the vehicle and suitable for removal and inclusion in the owner's manual may be displayed, or a schedule covering one model or various models may be displayed in the vehicle if clearly visible from outside the vehicle.

4.4 Suppression of noise emission - Vehicles in motion

With the exception of noise emission originating from audible warning devices, any noise emitted by a vehicle shall be in accordance with requirements given in **UNECE R51.01** - Uniform provisions concerning the approval of motor vehicles having at least four wheels with regard to their noise emissions.

5 Requirements concerning metrological data, vehicle identification and microdot

5.1 Vehicle dimensions

The dimensions of a vehicle shall comply with the applicable requirements of the relevant regulations of the National Road Traffic Act.

5.2 Vehicle Identification

5.2.1 Data plates

5.2.1.1 A vehicle shall have a metal data plate or plates affixed by rivets, or by welding, or by any other method that will achieve permanency of attachment during the life of the vehicle, in a conspicuous and readily accessible position on a part not subject to replacement.

5.2.1.2 As an alternative to the above, a data plate may be a self-adhesive tamperproof metal or plastics label that is not transferable from one vehicle to another, is clearly legible, and undergoes permanent and obvious damage on removal. The self-adhesive tamperproof label shall be resistant to engine oils, to engine coolants, to normal engine temperatures and to humidity. In addition, it shall have permanency characteristics similar to those of the plate(s) described in 5.2.1.1.

5.2.1.3 The data plate(s) shall be legibly and indelibly printed or stamped with the following details of the model type or of the vehicle, as applicable:

- a) the gross vehicle mass, in kilograms, for the model type, denoted and prefixed by the letters GVM/BVM;
- b) the gross combination mass, in kilograms, for the model type, denoted and prefixed by the letters GCM/BKM; and
- c) the gross axle mass-load of each axle, or the gross axle unit mass-load of each axle unit, in kilograms, for the model type, denoted and prefixed by the letters GA/BA or GAU/BAE, as applicable.

5.2.2 Optional data plate

The abbreviations given in 5.2.1.3(a), 5.2.1.3(b) and 5.2.1.3(c) are not required if the information is supplied in the following order:

- a) gross vehicle mass;
- b) gross combination mass; and
- c) gross axle masses in the order front to rear.

5.2.3 Information on vehicle engine or motor

Information on the requirements for the vehicle engine/motor number shall comply with the relevant regulations of the National Road Traffic Act.

5.2.4 Vehicle identification number (VIN)

The vehicle identification number shall comply with the requirements given in **SABS ISO 3779:2010 Edition 2** - Road vehicles - Vehicle identification number (VIN) - Content and structure, and **SABS ISO 4030:1983 Edition 1** - Road vehicles - Vehicle identification number (VIN) - Location and attachment. However, the requirements for marking the VIN, as given in clause 5 of the said SABS ISO 4030, shall, for the purpose of this specification, be taken to read as follows:

5.2.4.1 VIN attachment

5.2.4.1.1 The VIN shall be marked direct on any integral part of the vehicle; it may be either on the frame, or, for integral frame body units, on a part of the body not easily removed or replaced.

5.4.1.1.2 The VIN shall also be marked on the data plate or on a separate plate, which in turn, is permanently affixed to the vehicle according to 5.2.1.1

5.2.5 Visible identification

5.2.5.1 An identification code made up of all or part of the VIN shall be applied to the motor vehicle, such that it is readily visible to a person standing outside the vehicle, without the use of aids.

5.2.5.2 In cases where only part of the VIN is used, the code shall be sufficient to provide unique identification of any unit of a model, provided the model is known.

5.3 Microdot

Microdots shall be fitted to a vehicle and shall comply with the requirements given in **SANS 534-1:2020 Edition 5 - Vehicle security — Whole-of-vehicle marking Part 1: Microdot systems** according to the requirements given in the National Road Traffic Act.

5.4 Measuring units

All gauges, indicators or instruments that are fitted to a motor vehicle and are calibrated in physical units shall be calibrated in units as used in South Africa and as prescribed by the current applicable regulations promulgated under the **Measurement Units and National Measurement Standards Act, 2006 (Act 18 of 2006)**.

6 Requirements for vehicle equipment, components and systems

6.1 Speedometers

A vehicle shall be equipped with speedometer equipment that complies with the requirements given in **SANS 20039:2003 Edition 1 - Uniform provisions concerning the approval of vehicles with regard to the speedometer equipment including its installation**.

6.2 Engine, exhaust system and transmission

6.2.1 Engine

The engine of a vehicle (where applicable) shall be so fitted with a cover (bonnet or boot) that any part of the engine that constitutes a source of danger is out of normal reach of a person.

6.2.2 Exhaust system

The exhaust system of a vehicle shall comply with Regulation 209 of the National Road Traffic Act.

6.2.3 Transmission

A vehicle, the tare of which exceeds 570 kg, shall be equipped with a transmission that enables it to be controlled and driven in both a forward and a reverse direction.

6.3 Fuel system

6.3.1 filler/charging cap

The orifice for filling a fuel tank on a vehicle or for charging an electric vehicle shall be fitted with an effective cap that prevents incidental ingress of water or other foreign matter.

6.3.2 Prevention of fire risk

A vehicle shall comply with the requirements given in **SANS 20034:2018 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to the prevention of fire risks from 1st January 2026.

6.4 Tyres

The tyres fitted to the wheels of a motor vehicle shall comply with the requirements of **VC 8056** - the Compulsory Specification for Pneumatic tyres for passenger cars and their trailers.

6.5 Vehicle bodies

Vehicle bodies referred to in 1.2 shall be provided with sufficient instructions on the selection and assembly of components, such that the completed vehicle complies (or is capable of complying) with the requirements of this specification, when the instructions are followed.

6.6 Alternative propulsion

6.6.1 Electric vehicle

An electric vehicle shall comply with the requirements given in **SANS 20100:2011 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train.

6.6.2 Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG) or Liquefied Petroleum Gas (LPG)

6.6.2.1 A CNG or LNG vehicle shall comply with the requirements given in **SANS 20110:2003 Edition 1** - Uniform provisions concerning the approval of:

- i. Specific components of motor vehicles using compressed natural gas (CNG) and/or liquefied natural gas (LNG) in their propulsion system;
- ii. Vehicles with regard to the installation of specific components of an approved type for the use of compressed natural gas (CNG) and/or liquefied natural gas (LNG) in their propulsion system.

6.6.2.2 A LPG or CNG vehicle shall comply with the requirements given in **UNECE R115.00** - Uniform provisions concerning the approval of:

- i. Specific LPG (liquefied petroleum gases) retrofit systems to be installed in motor vehicles for the use of LPG in their propulsion system;
- ii. Specific CNG (compressed natural gas) retrofit systems to be installed in motor vehicles for the use of CNG in their propulsion system.

6.6.2.3 A Nitrogen vehicle shall comply with the relevant requirements of vehicles with nitrogen propulsion system.

6.6.3 Hydrogen fuelled vehicle

A hydrogen fuelled vehicle shall comply with the requirements given in **UNECE R134.00** - Uniform provisions concerning the approval of motor vehicles and their components with regard to the safety-related performance of hydrogen-fuelled vehicles (HFCV).

6.7 Mechanical Couplings

- a) In cases where mechanical couplings are fitted to the vehicle, such devices shall comply with the requirements given in **VC 8065** - Compulsory Specification for Mechanical coupling components of combinations of vehicles.

7 Continuous compliance

- 7.1 Registered manufacturers, importers or builders (MIBs) shall have each model of motor vehicle from a specific source, covered by the scope of this Compulsory Specification, successfully homologated by the regulatory authority in accordance with the requirements of Annexure A.
- 7.2 The rights of homologation approval, so granted for a vehicle model in 7.1, shall lie with the registered MIB that obtained such approval. This may only be transferable, to another registered MIB on request of the MIB that currently owns the rights to the homologation approval, and be authorised by, the regulatory authority.
- 7.3 Each MIB as identified within this Compulsory Specification shall put in place the arrangements and procedures so that the motor vehicle and/or safety critical component when in production continue to conform to the approved type.
- 7.4 Such arrangements and procedures shall be to the satisfactory of the Regulatory Authority.
- 7.5 The Regulatory Authority may conduct an initial assessment to evaluate the existence of satisfactory effectiveness of arrangements and procedures referred to in clause 7.3 above before it grants approval.
- 7.6 The Regulatory Authority may at any time, verify the conformity control methods applied in each production facility through an inspection.
- 7.7 At every inspection, appropriate documentation proving the conformity of production shall be made available to the visiting inspector.
- 7.8 The inspector may select samples at random to be tested by the Technical Service provider appointed by the Regulatory Authority.
- 7.9 In cases where non-conformities are found during an inspection, the Regulatory Authority reserves the right to sanction the holder of the approval as per the provision of the NRCS Act depending on the type and severity of the non-conformance.
- 7.10 Where non-conformities are found, appropriate time will be allocated to the holder of the approval to clear the non-conformities and the holder shall communicate the proposed corrective action plan in writing and in a period as agreed upon by the Regulatory Authority.
- 7.11 If a vehicle has already been Type Approved by a Signatory Country, that vehicle shall be presented in South Africa as the exact same vehicle. The MIB shall therefore present the vehicle as the same category vehicle that was originally Type Approved. In the event of a vehicle's "category code" being changed, the vehicle shall meet the requirements of the new category that the vehicle is presented to be approved as.

8 Exemptions

This specification does not apply to the following vehicles, however the manufacturer and/or importer must apply with the Regulatory Authority for the letter of exemption:

- a) experimental or prototype vehicles constructed or imported for the purpose of testing, assessment or development, or
- b) a motor vehicle principally designed for the transport of persons (excluding commercial vehicles or buses) including station wagons and racing cars classified as a vintage vehicle according to the NRTA, which were manufactured and/or imported 40 years or more. In the event of a motor vehicle being classified as a classic or international collector's vehicle as per ITAC, and the approval granted by ITAC is presented to the Regulatory Authority, such a motor vehicle will be exempted from this VC.
- c) motor vehicles manufactured and/or imported or adapted principally for the purposes of motor sport competition, and which are homologated under the rules of the International Federation of the Automobile (FIA) and for which such homologation documentation is lodged with the Regulatory Authority.

9 Equivalent requirements

9.1 The requirements of this Compulsory Specification shall be deemed to have been met if compliance with **UNECE R0.00** - Uniform provisions concerning the International Whole Vehicle Type Approval (IWVTA) is achieved and the approval is presented to the Regulatory Authority and/or if compliance with **70/156/EEC** – Directive on the approximation of the laws of the Member States relating to the type-approval of motor vehicles and their trailers is achieved and the approval is presented to the Regulatory Authority.

9.2 The requirements of this Compulsory Specification shall be deemed to have been met if Type Approval was granted under European Small (Low Volume) Series alternative according to the relevant EC Directive, provided: -

- i. that not more than 10 such vehicles are registered in South Africa each year, and
- ii. copies of all relevant approval and test documentation are lodged with the Regulatory Authority.

9.3 The requirements of any of the standards stated in column 2 in Table 1, shall be deemed to have been met if:

- i) compliance with the equivalent standards given in columns 3, of the same table, or their later amendment levels are achieved; and/or
- ii) compliance with the equivalent standards given in columns 4, of the same table, until the stated operative dates.

9.4 All submissions for approval, including any variants and/or derivatives, submitted to the Regulatory Authority from the **1st January 2026** shall meet the requirements in Table 1 column 2 and/or 3 only.

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**TABLE 1:
Compliance standards**

Clause	Col-1 Requirement	Col-2	Col-3	Col-4	
		Mandatory requirements		Equivalent Requirements / Local legislation	<i>Date until equivalents are accepted</i>
		SANS / VC	UNECE		
3.1.1	Lights	SANS 20037:2012 Ed 4 SANS 20099:2002 Ed 2 SANS 20128:2019 Ed 1 SANS 20001:1992 Ed 1 SANS 20005: 2012 Ed 2 SANS 20008: 2004 Ed 2 SANS 20020: 2008 Ed 2 SANS 20031: 2012 Ed 2 SANS 20098: 2007 Ed 2 SANS 20112: 2011 Ed 2 SANS 20113: 2019 Ed 1 SANS 20003: 2005 Ed 2 SANS 20004: 2012 Ed 2 SANS 20006: 2012 Ed 3 SANS 20007: 2018 Ed 4 SANS 20019: 2012 Ed 3 SANS 20023: 2012 Ed 3 SANS 20038: 2018 Ed 1 SANS 20077: 2019 Ed 1 SANS 20087: 2005 Ed 1 SANS 20091: 2007 Ed 2 SANS 20119: 2008 Ed 1	R37.02; R99.00; R128.00; R1.00; R5.01; R8.04; R20.02; R31.01; R98.00; R112.01; R113.00; R3.02; R4.00; R6.01; R7.02; R19.03; R23.00; R38.00; R77.00; R87.00; R91.00; R119.00	SANS 1376-1; SANS 1376-2; SANS 1376-3	Until 31 December 2025
				UNECE R148.00 UNECE R149.00 UNECE R150.00	N/A (New Regulations)
3.1.2	Lighting	SANS 20048: 2006 Ed 1	R48.00	SANS 1046	Until 31 December 2025

3.2.1	Indirect vision	SANS 20046: 2006 Ed 2	R46.01	SANS 1436	Until 31 December 2025
3.3.	Safety glazing	SANS 20043: 2005 Ed 2	R43.00	SANS 1191 / SANS 1193	Until 31 December 2025
3.4	Braking	SANS 20013: 2019 Ed 4 SANS 20013H: 2019 Ed 3	R13.08 R13H.00	Compliance to UNECE R140 for ESC only is accepted	
3.5.1	Interior fittings	SANS 20021: 1993 Ed 1	R21.01	SANS 1047	Until 31 December 2025
3.5.2	Steering Hand controls		R79.01 R121.00	Clause 3.4.2.1 of VC 8022:2014	Until 31 December 2025
3.5.3	Audible warning devices	SANS 20028: 1972 Ed 1	R28.01	SANS 0169	Until 31 December 2025
3.6.1.1	Frontal Impact Protection		R33.00 R94.03	SANS 1440	Until 31 December 2025
3.6.1.2	Side impact protection	SANS 20095:2017 Ed 1	R95.01		
3.6.1.3	Rear impact protection		R32.00 R153.00		
3.7.1	Door latches & hinges	SANS 20011: 1981 Ed 1	R11.02	SANS 1443	Until 31 December 2025
3.8.1	Seats and seat anchorages	SANS 20017: 2004 Ed 2	R17.02	SANS 1429	Until 31 December 2025
3.8.2	Restraining devices anchorages	SANS 20014: 2006 Ed 2	R14.02	SANS 1430	Until 31 December 2025
				Compliance to UNECE R145.00 for ISOFIX only is accepted	
3.8.3	Restraining devices	SANS 20016: 2017 Ed 4	R16.03	SANS 1080	Until 31 December 2025
3.8.4	Child restraints	VC 8033	R129.00	SANS 20044 / UNECE R44	
3.8.5.1	Driver Airbag	SANS 20012: 1994 Ed 1	R12.02		
3.8.5.2	Passenger Airbags		R94.03	SANS 1440	Until 31 December 2025
3.9	Anti-theft devices		R18.01	SANS 1248	Until 31 December 2025
			R116.00	SANS 1248	Until 31 December 2025
3.10	Cyber security		R155.00	For connected vehicles	
3.11	Warning triangles	SANS 20027: 1998 Ed 1	R27.03		

4.1	Radio interference	SANS 20010: 2010 Ed 2	R10.01	Electronic Communications Act	
4.1	Electromagnetic Compatibility	SANS 20010	R10.01	Electronic Communications Act	
4.2	Atmospheric pollution		R83.06 Excl. Type VI Test and In-service conformity	UNECE R83.02	Until 31 August 2023
4.3	Vehicle Fuel Economy and Carbon Dioxide Emission Labelling	SANS 20101: 2006 Ed 1	R101.02		
4.4	Suppression of noise emission		R51.01	SANS 0205	Until 31 December 2025
5.2.4	Vehicle identification number (VIN)	SANS ISO 3779: 2010 Ed 2 SANS ISO 4030: 1983 Ed 1		ISO 3779 ISO 4030	
5.3	Microdots	SANS 534-1:2020 Ed 5			
6.1	Speedometers	SANS 20039: 2003 Ed 1	R39.00	SANS 1441	Until 31 December 2025
6.3.3	Prevention of fire risk	SANS 20034: 2018 Ed 1	R34.02		
6.4	Tyres	VC 8056	R30.02	SANS 20030	
6.6.1	Electric vehicles	SANS 20100: 2011 Ed 1	R100.01		
6.6.2.1	Compressed Natural Gas (CNG) or Liquefied Natural Gas (LNG)	SANS 20110: 2003 Ed 1	R110.00		
6.6.2.2	Liquefied Petroleum Gas (LPG) or Compressed Natural Gas (CNG)		R115.00		

6.6.3	Hydrogen fuelled vehicles		R134.00		
6.7	Mechanical Couplings	VC 8065	R55.01	SANS 1505-1 SANS 1505-2 SANS 1505-3	Until 31 December 2025

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Annex A

(Normative)

A.1 Administrative Process for Homologation of Models of Motor Vehicles of Category N1

1. The Applicant shall submit a formal request for approval by completing the application form and providing the necessary supporting documentation (including an OE support document where applicable), for each model of motor vehicle intended to be manufactured or imported, to the Regulatory Authority.
2. The appropriate fee, as determined by the minister by notice in the government gazette, shall be paid to the Regulatory Authority.
3. Upon receipt and review of the completed application and the required documentation, non-conformances will be reported to the applicant, for his/her correction.
4. Once the application documentation is accepted by the Regulatory Authority, the Regulatory Authority shall formally confirm to the applicant where the sample/s to be inspected, as part of the approval process (if not already submitted), shall be submitted.
5. The Regulatory Authority shall inspect the sample/s and verify them against all mandatory requirements and the submitted evidence of the conformity in the application documents, to these requirements.
6. Any non-conformances identified in 5 above, shall be resolved by the applicant, to the satisfaction and within a period as specified by the Regulatory Authority. After this period, the application shall be considered and treated as a new application.
7. Once the approval process establishes that the model of motor vehicle complies with all the relevant mandatory requirements, the Regulatory Authority shall issue a formal letter of authority (Homologation approval letter), to the applicant.
8. The original application documents, and copies of supporting evidence of compliance documents, as necessary, shall be taken, and retained as approval records, by the Regulatory Authority.
9. The Regulatory Authority may adopt a national or international standard or publish its own guidelines to ensure continuous compliance as per clause 7 of this Compulsory Specification.

A.2 Source of evidence

A.2.1 The evidence of compliance with any of the requirements of any referred-to standard, UNECE Regulation and/or EEC directive in this compulsory specification, which requires testing to establish compliance, and a test report issued, will only be recognized by the Regulatory Authority, from the following sources:

- a) A laboratory that is part of an international or regional mutual acceptance scheme, or
- b) A laboratory that is accredited to ISO/IEC 17025 by SANAS or an ILAC affiliated accreditation body, or
- c) The laboratory has been successfully assessed against the requirements of ISO/IEC 17025 to the satisfaction of the Regulatory Authority.

Annex B

Normative References

B1. This Compulsory Specification incorporates dated or undated references, provisions from other publications that are mandatory for its context and application. Some of these references are cited at the appropriate places in the text and others indicate Legislation and Regulations that are generally applicable.

B2. For dated references, subsequent amendments to or revisions of any of these publications apply to this Compulsory Specification only when incorporated in it by amendment or revision; and for undated references the latest edition of the publication referred to applies.

B3. The following documents are mandatory for the context and application of this Compulsory Specification: -

B3.1 National Regulator for Compulsory Specifications Act, 2008 (Act No. 5 of 2008), as amended as amended through the Legal Metrology Act (Act no. 9 of 2014);

B3.2 National Road Traffic Act, 1996 (Act No.93 of 1996);

B3.3 Legal Metrology Act, 2014 (Act No.9 of 2014);

B3.4 Measurement Units and National Measurement Standards Act, 2006 (Act 18 of 2006)

B3.5 National Environmental Management: Air Quality Act, 2004 (Act 39 Of 2004)

B3.6 Regulations in terms of section 36 of the National Regulator for Compulsory Specifications Act, 2008 published in Government Notice No. R. 924 (*Government Gazette* No. 33615) of 15 October 2010;

B3.7 Regulations relating to the gazetting of levy periods as amended published in Government Notice No. R. 101 (*Government Gazette* No. No. 38479) of 20 February 2015;

B3.8 The latest amendment of Regulations Relating to the payment of levies and fees with regard to Compulsory Specifications under section 14(3) (b) of National Regulator for Compulsory Specifications Act, 2008 (Act No. 5 of 2008);

B3.9 The NRCS's Conformity Assessment Policy (NRCS- CPO 112); and

B3.10 The following South African National Standards and/or Compulsory Specifications:

- b) **SANS 20037:2012 Edition 4** - Uniform provisions concerning the approval of filament lamps for use in approved lamp units of power-driven vehicles and of their trailers
- c) **SANS 20099:2002 Edition 2** - Uniform Provisions Concerning the approval of Gas-Discharge Light sources for use in approved Gas-Discharge lamp units of power-driven vehicles
- d) **SANS 20128:2019 Edition 1** - Uniform Provisions Concerning the approval of light emitting diode (LED) Light Sources for use in approved Gas-Discharge lamp units of power-driven vehicles
- e) **SANS 20001:1992 Edition 1** - Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam and/or a driving beam and equipped with filament lamps of categories R2 and/or HS1
- f) **SANS 20005:2012 Edition 2** - Uniform provisions concerning the approval of power-driven vehicle's sealed-beam headlamps (SB) emitting a European asymmetrical passing beam or a driving beam or both
- g) **SANS 20008:2004 Edition 2** - Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with halogen filament lamps (H1, H2, H3, HB3, HB4, H7, H8, H9, HIR1, HIR2 and/or H11)
- h) **SANS 20020:2008 Edition 2** - Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with halogen filament lamps (H4 lamps)
- i) **SANS 20031:2012 Edition 2** - Uniform provisions concerning the approval of power-driven vehicle's sealed-beam headlamps (SB) emitting a European asymmetrical passing beam or a driving beam or both
- j) **SANS 20098:2007 Edition 2** - Uniform provisions concerning the approval of motor vehicle headlamps equipped with gas-discharge light sources
- k) **SANS 20112:2011 Edition 2** - Uniform provisions concerning the approval of motor vehicle headlamps emitting an asymmetrical passing beam or a driving beam or both and equipped with filament lamps and/or light-emitting diode (LED) modules
- l) **SANS 20113:2019 Edition 1** - Uniform provisions concerning the approval of motor vehicle headlamps emitting a symmetrical passing beam or a driving beam or both and equipped with filament, gas-discharge light sources or LED modules
- m) **SANS 20003:2005 Edition 2** - Uniform provisions concerning the approval of retro-reflective devices for power-driven vehicles and their trailers
- n) **SANS 20004:2012 Edition 2** - Uniform provisions concerning the approval of devices for the illumination of rear registration plates of power-driven vehicles and their trailers
- o) **SANS 20006:2012 Edition 3** - Uniform provisions concerning the approval of direction indicators for power-driven vehicles and their trailers
- p) **SANS 20007:2018 Edition 4** - Uniform provisions concerning the approval of front and rear position (side) lamps, stop-lamps and end-outline marker lamps for power-driven vehicles and their trailers
- q) **SANS 20019:2012 Edition 3** - Uniform provisions concerning the approval of power-driven vehicle front fog lamps
- r) **SANS 20023:2012 Edition 3** - Uniform provisions concerning the approval of reversing lights for power-driven vehicles and their trailers
- s) **SANS 20038:2018 Edition 1** - Uniform provisions concerning the approval of rear fog lamps for power-driven vehicles and their trailers
- t) **SANS 20077:2019 Edition 1** - Uniform provisions concerning the approval of parking lamps for power-driven vehicles

- u) **SANS 20087:2005 Edition 1** - Uniform provisions concerning the approval of daytime running lamps for power-driven vehicles
- v) **SANS 20091:2007 Edition 2** - Uniform provisions concerning the approval of side-marker lamps for motor vehicles and their trailers
- w) **SANS 20119:2008 Edition 1** - Uniform provisions concerning the approval of cornering lamps for power-driven vehicles.
- x) **SANS 20048:2017 Edition 4** - Uniform provisions concerning the approval of vehicles with regard to the installation of lighting and light-signaling devices
- y) **SANS 20046:2006 Edition 2** - Uniform provisions concerning the approval of devices for indirect vision and of motor vehicles with regard to the installation of these devices
- z) **SANS 20043:2005 Edition 2** – Uniform provisions concerning the approval of safety glazing materials and their installation on vehicles
- aa) **SANS 20013:2019 Edition 4** - Uniform provisions concerning the approval of vehicles of categories M, N and O with regard to braking
- bb) **SANS 20013H:2019 Edition 3** - Uniform provisions concerning the approval of vehicles of passenger cars with regard to braking
- cc) **SANS 20021:1993 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to their interior fittings
- dd) **UNECE R94.03** - Uniform provisions concerning the approval of vehicles with regard to the protection of the occupants in the event of a frontal collision
- ee) **UNECE R79.01** - Uniform provisions concerning the approval of vehicles with regard to steering equipment
- ff) **UNECE R121.00** - Uniform provisions concerning the approval of vehicles with regard to the location and identification of hand controls, tell-tales and indicators
- gg) **SANS 20028:1972 Edition 1** - Uniform provisions concerning the approval of audible warning devices and of motor vehicles with regard to their audible signals
- hh) **UNECE R32.00** - Uniform provisions concerning the approval of vehicles with regard to the behaviour of the structure of the impacted vehicle in a rear-end collision
- ii) **UNECE R33.00** - Uniform provisions concerning the approval of vehicles with regard to the behaviour of the structure of the impacted vehicle in a head-on collision
- jj) **SANS 20095: 2017 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to the protection of occupants in the event of a lateral collision
- kk) **SANS 20011:1981 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to door latches and door retention components
- ll) **SANS 20017:2004 Edition 2** - Uniform provisions concerning the approval of vehicles with regard to the seats, their anchorages and any head restraints
- mm) **SANS 20014:2006 Edition 2** - Uniform provisions concerning the approval of vehicles with regard to safety belt anchorages, ISOFIX anchorages systems and ISOFIX top tether anchorages
- nn) **SANS 20016:2017 Edition 4** - Uniform provisions concerning the approval of: I. Safety-belts, restraint systems, child restraint systems and ISOFIX child restraint systems for occupants of power-driven vehicles, II. Vehicles equipped with safety-belts, safety-belt reminder, restraint systems, child restraint systems and ISOFIX child restraint systems
- oo) **VC 8033** - Compulsory Specification for Child restraints for use in motor vehicles
- pp) **SANS 20012:1994 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to the protection of the driver against the steering mechanism in the event of impact
- qq) **UNECE R18.01** - Uniform provisions concerning the approval of motor vehicles with regard to their protection against unauthorized use

- rr) **UNECE R116.00** - Uniform technical prescriptions concerning the protection of motor vehicles against unauthorized use
- ss) **SANS 20027:1998 Edition 1** - Uniform provisions for the approval of advance-warning triangles
- tt) **SANS 20010:2010 Edition 2** - Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility
- uu) **UNECE R83.06 B** - Uniform provisions concerning the approval of vehicle with regard to the emissions of pollutants according to engine fuel requirements
- vv) **SANS 20101:2006 Edition 1** - Uniform provisions concerning the approval of passenger cars powered by an internal combustion engine only, or powered by a hybrid electric power train with regard to the measurement of the emission of carbon dioxide and fuel consumption and/or the measurement of electric energy consumption and electric range and of categories M1 and N1 vehicles powered by an electric power train only with regard to the measurement of electric energy consumption and electric range recorded in litres per 100 km and grams per km respectively
- ww) **UNECE R51.01** - Uniform provisions concerning the approval of motor vehicles having at least four wheels with regard to their noise emissions, shall not exceed 82 dB(A). To allow for any lack of precision in the measuring equipment, the highest sound level reading obtained shall be reduced by 1 dB(A)
- xx) **SABS ISO 3779:2010 Edition 2** - Road vehicles - Vehicle identification number (VIN) - Content and structure
- yy) **SABS ISO 4030:1983 Edition 1** - Road vehicles - Vehicle identification number (VIN) - Location and attachment
- zz) **SANS 534-1:2020 Edition 5** - Vehicle security — Whole-of-vehicle marking Part 1: Microdot systems
- aaa) **SANS 20039:2003 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to the speedometer equipment including its installation
- bbb) **SANS 20034:2018 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to the prevention of fire risks
- ccc) **VC 8056** - the Compulsory Specification for Pneumatic tyres for passenger cars and their trailers
- ddd) **SANS 20100:2011 Edition 1** - Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train
- eee) **SANS 20110:2003 Edition 1** - Uniform provisions concerning the approval of:
- I. Specific components of motor vehicles using compressed natural gas (CNG) in their propulsion system;
 - II. Vehicles with regard to the installation of specific components of an approved type for the use of compressed natural gas (CNG) in their propulsion system
- fff) **UNECE R115.00** - Uniform provisions concerning the approval of:
- I. Specific LPG (liquefied petroleum gases) retrofit systems to be installed in motor vehicles for the use of LPG in their propulsion system;
 - II. Specific CNG (compressed natural gas) retrofit systems to be installed in motor vehicles for the use of CNG in their propulsion system.
- ggg) **VC 8065** - Compulsory Specification for Mechanical coupling components of combinations of vehicles
- hhh) **UNECE R148.00** - Uniform provisions concerning the approval of light-signalling devices (lamps) for power-driven vehicles and their trailers.
- iii) **UNECE R149.00** - Uniform provisions concerning the approval of road illumination devices (lamps) and systems for power-driven vehicles.

- jjj) **UNECE R150.00** - Uniform provisions concerning the approval of retro-reflective devices and markings for power-driven vehicles and their trailers.
- kkk) **UNECE R155.00** - Cyber security and cyber security management system
- lll) **UNECE R140.00** - Uniform provisions concerning the approval of passenger cars with regard to Electronic Stability Control (ESC) Systems
- mmm) **UNECE R145.00** - Uniform provisions concerning the approval of vehicles with regard to ISOFIX anchorage ISOFIX top tether anchorages and i-Size seating positions
- nnn) **UNECE R134.00** - Uniform provisions concerning the approval of motor vehicles and their components with regard to the safety-related performance of hydrogen-fuelled vehicles (HFCV)
- ooo) **UNECE R153.00** - Uniform provisions concerning the approval of vehicles with regard to fuel system integrity and safety of electric power train in the event of a rear-end collision
- ppp) **UNECE R0.00** - Uniform provisions concerning the International Whole Vehicle Type Approval (IWVTA)
- qqq) **70/156/EEC** – Directive on the approximation of the laws of the Member States relating to the type-approval of motor vehicles and their trailers

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