

No. R. 1134 24 October 2008

STANDARDS ACT, 1993

PROPOSED INTRODUCTION OF A COMPULSORY SPECIFICATION FOR MOTOR  
VEHICLES OF CATEGORY L

It is hereby made known under section 22(1)(a)(i) of the Standards Act, (Act No. 29 of 1993), that the Minister of Trade and Industry, on the recommendation of the Council of the SABS, intends to introduce a compulsory specification for *Motor vehicles of Category L*, as set out in the attached Schedule.

Any person who wishes to object to the intention of the Minister to thus introduce the compulsory specification concerned shall lodge their objection in writing with the President, South African Bureau of Standards, Private Bag X191, Pretoria, 0001, on or before the date two (2) months after publication of this notice.

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M Mpa Jwa Minister of Trade and Industry

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SCHEDULE

Proposed Compulsory Specification for motor vehicles of Category L

1 Scope

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

1.2 The requirements of this specification, insofar as the parts already incorporated are concerned, apply in respect of incomplete motor vehicles supplied by one manufacturer to another for further manufacture and the entire specification shall apply to vehicle after completion thereof by the last manufacturer.

1.3 This specification does not apply to:

- a) experimental or prototype vehicles constructed or imported for the purpose of testing, assessment or development,
- b) a motor vehicle model that was manufactured before 1965, that has not been previously registered or licensed in South Africa, and that is certified by a motor club approved by the relevant Minister,
- c) vehicles with a maximum design speed not exceeding 6 km/h,
- d) vehicles intended for use by persons with disabilities,
- e) vehicles intended for pedestrian control,
- f) vehicles intended for use in competitions, on roads or in off-road conditions,
- g) tractors and machines used for agricultural or similar purposes, and
- h) vehicles designed primarily for off-road leisure use and cycles that are equipped with an

auxiliary electric motor that has a maximum continuous rated power of 0,25 kW, of which the output is

progressively reduced and finally cut off as the vehicle reaches a speed of 25 km/h, or sooner.

1.4 Where a South African national standard, including an international standard or a UN ECE regulation adopted as a South African national standard, is incorporated by reference into this specification, only the technical requirements/specification for the commodity and the tests to verify the compliance, apply.

## 2 Definitions

For the purposes of this document, the following definitions shall apply:

Where speeds are quoted in these definitions, a tolerance of 10 % for shall be acceptable.

### 2.1

category L motor vehicle motor vehicle defined in 2.2 to 2.8

2.2 category L1 motor vehicle moped two-wheeled vehicle with a maximum design speed not exceeding 45 km/h and that is characterized by an engine whose

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- a) cylinder capacity does not exceed 50 cm<sup>3</sup>, in the case of the internal combustion type, or
- b) maximum continuous rated power is not more than 4 kW, in the case of an electric motor

2.3 category L2 motor vehicle moped three-wheeled vehicle with a maximum design speed not exceeding 45 km/h and that is characterized by an engine whose

- a) cylinder capacity does not exceed 50 cm<sup>3</sup>, if of the spark (positive) ignition type, or
- b) maximum net power output does not exceed 4 kW, in the case of other internal combustion engines, or
- c) maximum continuous rated power does not exceed 4 kW, in the case of other internal electric motors

2.4 category L3 motor vehicle motorcycle two-wheeled vehicle without a sidecar, fitted with an engine that has a cylinder of more than 50 cm<sup>3</sup>, if of the internal combustion type, or that has a maximum design speed of more than 45 km/h (or both)

2.5 category L4 motor vehicle motorcycle sidecar two-wheeled vehicle with a sidecar, fitted with an engine that has a cylinder of more than 50 cm<sup>3</sup>, if of the internal combustion type, or that has a maximum design speed of more than 45 km/h (or both)

### 2.6

category Ls motor vehicle motor tricycle vehicle with three-wheels that are symmetrically arranged, fitted with an engine that has a cylinder capacity of more than 50 cm<sup>3</sup>, if of the internal combustion type, or a maximum design speed of more than 45 km/h (or both)

2.7 category Le motor vehicle four-wheeled vehicle whose unladen mass is not more than 350 kg, not including the mass of the batteries, in case of electric vehicles, whose maximum design speed is not more than 45 km/h, and

- a) whose engine cylinder capacity does not exceed 50 cm<sup>3</sup> for spark (positive) ignition engines, or
- b) whose maximum net power output does not exceed 4 kW, in the case of other internal combustion engines, or
- c) whose maximum continuous rated power does not exceed 4 kW, in the case of electric engines

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### 2.8

category L7 motor vehicle  
four-wheeled vehicle, other than those classified as category Le,

- a) whose unladen mass exceeds 350 kg but is not more than 400 kg (550 kg for vehicles intended for carrying goods), not including the mass of batteries, in the case of electric vehicles; and

b) whose maximum continuous rated power does not exceed 15 kW

## 2.9

manufacturer a person who, for the purpose of his/her business of selling motor vehicles, manufactures, modifies or assembles category L motor vehicles.

## 3 General requirements

**3.1 Homologation** Each model of motor vehicle covered by the scope of this specification shall be successfully homologated in accordance with the administrative requirements defined in Annexure A, against the requirements of this specification, prior to it being offered for sale.

### 3.2 Lights and lighting equipment

#### 3.2.1 Lights

Lights fitted to a vehicle shall comply with the relevant requirements of SANS 20050, SANS 20056 or SANS 20057, SANS 20072, SANS 20076 or SANS 20082.

#### 3.2.2 Retro-reflecting devices

Retro-reflecting devices fitted to a vehicle shall comply with the requirements of SANS 20003. Side retro-reflectors shall be amber regardless of their position.

#### 3.2.3 Lighting installation

3.2.3.1 The number of lamps for lighting installation shall be as follows:

- a) main-beam headlamps: 1 (min.)
- b) dipped-beam headlamps: 1 (min.)
- c) stop lamps: 1 (min.)
- d) directional indicator lamps: 2 front, 2 rear
- e) rear registration lamps: 1 (min.)
- f) front position lamps: 1 (min.)
- g) rear position lamps: 1 (min.)

3.2.3.2 Lighting installation of vehicles of category L1 and L2 shall comply with the requirements in SANS 20074.

3.2.3.3 Lighting installation of vehicles of category L3, L4 and L5 shall comply with the requirements in SANS 20053.

3.2.3.4 Lighting installation of vehicles of category L6 and L7 shall comply with the requirements in 4.9.

### 3.3 Rear-view mirrors

Rear-view mirrors shall be fitted to a vehicle and shall comply with the relevant requirements given in SANS 20081.

### 3.4 Windscreens, windshields and windscreen wipers

#### 3.4.1 Windscreens and windshields

3.4.1.1 A vehicle with an enclosing bodywork and a roof over the driver shall be fitted with a windscreen and such windscreen shall be of safety glass that complies with the relevant requirements given in SANS 20043.

3.4.1.2 The windscreen referred to in 3.4.1.1 shall have a light transmittance of not less than 70 %.

#### 3.4.2 Windows and partitions

Glass partition and glass windows fitted to a vehicle shall be of safety glass that complies with the relevant requirements given in the SANS 20043.

The provisions of 3.4.1 and 3.4.2 exclude equipment used for deflecting wind.

#### 3.4.3 Windscreen wipers

Where a vehicle is fitted with a windscreen, it shall be fitted with at least one windscreen wiper. The windscreen wiper shall be operated by other than manual means and, when in operation, shall continuously, evenly and efficiently wipe the outside of the windscreen directly in front of the drivers forward field of vision.

### 3.5 Brakes and braking equipment

Brakes and braking equipment shall be fitted to a vehicle and shall comply with the relevant requirements given in SANS 20078.

### 3.6 Audible warning devices

A vehicle shall be fitted with at least one audible warning device such that, when the device is operated, a continuous sound is emitted at a level of at least the following, determined in accordance with SANS 20028:

- a) 83 dB(A) and not exceeding 112 dB(A) for audible warning devices intended mainly for motor cycles with a power less than or equal to 7 kW (L1, LZ and LS);
- b) 93 dB(A) and not exceeding 112 dB(A) for audible warning devices intended mainly for motor cycles with a power greater than 7 kW (L3, L4, L5 and L7)

### 3.7 Controls

All controls that are fitted to a vehicle, and that are required for the operation of the vehicle, shall be so located that the rider of the vehicle can reach and operate them when he/she is seated in the normal riding position. Controls shall be so placed that they do not impair safe riding. Tell-tales display shall comply with the requirements in SANS 20060.

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### 3.8 Devices to prevent unauthorised use

Devices to prevent unauthorised use shall be fitted to vehicles with handlebars and shall comply with the requirements of SANS 20062.

### 3.9 Speedometers

A vehicle shall be equipped with speedometer equipment that complies with the relevant requirements given in SANS 20039.

3.10 Motor vehicles of category L6 and L7 Vehicles of category L6 shall comply with the requirements for vehicles of category L2, and vehicles

of category L7 shall comply with the requirements for vehicles of category L5. Lighting installation for vehicles of category La and L7 may, alternatively, comply with SANS 20048.

4 Information to be displayed  
The following information shall be displayed legibly and permanently: a) the engine number, on the engine block of the vehicle; and b) the vehicle identification number (VIN) that complies with the relevant requirements given in SANS 3780:1983, *Road vehicles -World manufacture identifier (WMI) code* and SANS 3779: 1983, *Road vehicles -Vehicle identification number-Content and structure*, which shall be readily visible on the frame of the vehicle.

## 5 Requirements for the control of environmental interference

### 5.1 Suppression of radio and television interference

All components, accessories or equipment fitted to a vehicle and that generate and radiate electromagnetic energy, shall comply with the relevant national legislation in terms of the Electrical Communications Act, 2005 (Act NO.36 of 2005) and its Regulations.

### 5.2 Suppression of atmospheric pollution

#### 5.2.1

All engines, accessories or equipment fitted to a vehicle and that generate smoke emissions, shall comply with the relevant national legislation in terms of the Atmospheric Pollution Prevention Act, 1965 (Act No.45 of 1965)

#### 5.2.2

The gaseous and particulate emissions from the vehicle shall comply with the requirements of SANS 20040: or

Global Technical Regulation (GTR) No.2.

### 5.3 Suppression of noise emission

With the exception of noise emission originating from audible warning devices, any noise emitted by a vehicle shall be determined in accordance with SANS 20009, SANS 20041, or SANS 20063. The noise emitted by the vehicle shall not exceed the values given in SANS 20009, SANS 20041 or SANS 20063.

## 6 Engine and exhaust systems

### 6.1 Engine

The engine of a vehicle shall be so fitted as to comply with the relevant national legislation in terms of the National Road Traffic Act, 1996 (ActNo.93 of 1996) and its Regulations, and shall not be so exposed that it constitutes a source of danger.

### 6.2 Exhaust systems

The exhaust system of a vehicle shall comply with the requirements of the relevant national legislation in terms of the National Road Traffic Act (Act NO.93 of 1996), and its Regulations and shall not be so exposed that it constitutes a source of danger.

## 7 Fuel systems

### 7.1 Filler cap

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

### 7.2 Fuel tank, carburettor, fuel injector and fuel pipes

Any fuel tank, carburettor, fuel injector and fuel pipes on a vehicle, shall not be so exposed that they constitute a source of danger.

### 8 Tyres

8.1 A vehicle shall be fitted with tyres that comply with the requirements given in SANS 20075.

8.2 If retro-reflective tyres are fitted to a two-wheeled vehicle, the tyres shall be retro-reflective tyres that comply with the requirements of SANS 20088.

## 9 Equivalent requirements

The requirements of any of the South African national standards stated in column 2 in the appropriate parts of Table 1, shall be deemed to have been met, if compliance with the equivalent standards given in columns 3, 4 or 5 of the same table, or their later amendment levels is achieved. Where an ECE Directive is quoted in column 4 with its amendment level, this shall mean that the Directive, and its amendments up to, and including the quoted level, is the minimum level deemed equivalent.

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Col-1 Item

Installation of lighting

Lights and signaling devices

Safety Glazing

Braking

Audible warning devices  
Speedometer  
Gaseous emissions

Tyres

Devices to prevent unauthorised use  
Rear view mirrors  
Noise emission

Identification of controls

**Category L Vehicles TABLE 1-Equivalent standards**

Col-2 Equivalent Standard SANS Col-3 Col-4  
ECE EEC 20048 R48 96/24/EC 20053 R58 93/92/EC 20074 R74 20050 R50 97/24/EC C2 20056 R56.01  
20057 R57.02 20076 R76.01 20072 R72.0 20082 R82.01 20043 R43 92/22/EC  
97/24/EC C 12 20078 R78.02 93/14/EC 20028 R28 93/30/EC 20039 R39 2000/7/EC 20040  
R40 97/24/EC C5 20047 R47 2002/51/EC 20075 R75 97/24 IECI C1 20082 R82 20062 R62 93/33/EC  
20081 R81 97/24/EC C4 20009 R9.06. 97/24/EC C9 20041 R41.03 20063 R63.01 20060 R60 93/29/EC  
Col-5  
Others

GTR2

Annexure A

Homologation

The administrative process for Homologation of models of Motor Vehicles of Category L.

1 The Applicant shall formally submit a request for homologation, for each model of motor vehicle intended to be manufactured or imported, in writing, to the Regulator providing information of his/her intention to homologate that model of motor vehicle. This shall be at least 60 days prior to the homologation date requested.

2 The Regulator shall forward to the Applicant the relevant homologation application documents, for each model as notified in 1 above. The Applicant shall complete the application and forward it to the Regulator. The application documents shall stipulate the information to be submitted to the Regulator, and these shall accompany the submitted application. The appropriate fee, as determined by notice in the Government Gazette, or proof of payment of such, due to the Regulator, for the Homologation, shall accompany the application

3 Upon receipt of the completed application documents, including the evidence of compliance, the Regulator shall review the documents for correctness, completeness, and authentic proof of compliance. Incorrect documentation, or insufficient documentation will be reported to the applicant, for his/her correction.

4 Once the application documentation is correct, the Regulator shall formally confirm the date and place to the Applicant for the sample vehicle to be inspected as part of the Homologation process.

5 At the Homologation Inspection, the Regulator shall inspect the sample vehicle and verify it against all mandatory requirements and the submitted evidence of conformity in the application documents, to these requirements.

6 Any non-compliances identified in 5 above, shall be resolved by the Applicant, to the satisfaction of the Regulator.

7 Once the Homologation process establishes that the vehicle model complies with all the relevant mandatory requirements, the Regulator shall issue a formal Letter of Compliance (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 maintained as Homologation records, by the Regulator.