COMPULSORY SPECIFICATION FOR MOTOR VEHICLES OF CATEGORY M2.

This document is a Draft Ghana Standard. This document shall not be used or referred to as a Ghana Standard.
Foreword

The Ghana Standards Authority is the National Statutory Body responsible for the development and promulgation of Ghana Standards.

The Ghana Standards Authority is a member of the African Organization for Standardization (ARSO), the International Organization for Standardization (ISO) and an affiliate member of the International Electrotechnical Commission (IEC).

This Ghana Standard is the compulsory specification for motor vehicles of category M2. It lays down the essential requirements to which such vehicles must conform.

The National Committee responsible for this standard (DGS 4503:2019) is the Technical Committee for Automobile Industry (GSA/TC 05).

This is the 1st edition.

Users of this standard should note that the standard undergoes revision from time to time and any references to it statutorily imply its latest edition.
COMPULSORY SPECIFICATION FOR MOTOR VEHICLES OF CATEGORIES M2

1 Scope

1.1 This specification covers the requirements for motor vehicle models of category M2, not previously registered or licensed in Ghana, designed or adapted for operation on a public road.

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 model 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.

1.3 This specification does not apply to:

a) experimental or prototype vehicles constructed or imported for the purpose of testing, assessment or development, or

b) a motor vehicle model that was manufactured or imported during the exclusion period as per Annex A of this compulsory vehicle specification and that was not previously homologated in Ghana.

1.4 The relevant requirements of this specification shall take effect on the dates and according to the exclusions as specified both in the text of this specification and as specified in Annex A.

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

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GS 4048:2019, Uniform provisions concerning the approval of vehicles with regard to the installation of lighting and light-signaling devices.

GS 4046:2019, Uniform provisions concerning the approval of devices for indirect vision and of motor vehicles with regard to the installation of these devices.

GS 4043:2019, Uniform provisions concerning the approval of safety glazing materials and their installation on vehicles.

GS 4013:2019, Uniform provisions concerning the approval of vehicles of categories M, N and O with regard to braking.
GS 4028:2019, Uniform provisions concerning the approval of audible warning devices and of motor vehicles with regard to their audible signals

GS 4017:2019, Uniform provisions concerning the approval of vehicles with regard to the seats, their anchorages and any head restraints

GS 4014:2019, Uniform provisions concerning the approval of vehicles with regard to the seats

GS 4016:2019, Uniform provisions concerning the approval of vehicles with regard to safety belt anchorages, ISOFIX anchorages systems and ISOFIX top tether anchorages

GS 4083:2019, Uniform provisions concerning the approval of vehicles with regard to the emission of pollutants according to engine fuel requirements

GS 4051:2019, Uniform provisions concerning the approval of motor vehicles having at least four wheels with regard to their noise emissions

GS 4039:2019, Uniform provisions concerning the approval of vehicles with regard to the speedometer equipment including its installation

GS 4030:2019, Uniform provisions concerning the approval of pneumatic tyres for motor vehicles and their trailers

GS 4054:2019 Uniform provisions concerning the approval of pneumatic tyres for commercial vehicles and their trailers

GS 4500:2019 Administrative Process for Homologation of Models of Motor Vehicles and its Variants

3 Definitions

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

3.1 **builder**
person who builds a category M2 motor vehicle, and “build” has a corresponding meaning

3.2 **bus**
category M2 motor vehicle that is designed or adapted for the conveyance of passengers or of both passengers and goods

3.3 **category M2 motor vehicle**, hereinafter referred to as a vehicle motor vehicle that is used for the carriage of passengers, that has at least four wheels, that has seating accommodation for more than eight passengers in addition to the driver of the vehicle, and that has a maximum mass not exceeding 5 t
3.4 homologation
is a process of establishing the compliance of a model of motor vehicle and approval being granted by the Ghana Standards authority, prior to it being introduced for sale in Ghana.

3.5 importer
person who imports a category M2 motor vehicle, and “import” has a corresponding meaning.

3.6 manufacturer
person who manufactures, produces, assembles, alters, modifies, adapts or converts a category M2 motor vehicle, and “manufacture” has a corresponding meaning.

3.7 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 Ghana.

The Authority reserves the right to decide which variations or combinations of variations constitute a new model and might also take cognizance of the classification system applied in the country of the design.

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;

e) a different number of doors;

f) sleeper cabs on trucks;

g) wheelbase variations;

h) a cargo body or equipment that are fitted to a truck and that has no effect on compliance;

and

i) the number of driven axles.

If a vehicle is manufactured in several configurations, such as a sedan, a hatchback, or a station wagon, and a single or double cab, each of these may be regarded as a variant to the base model.

3.8 proof of compliance
the authentic evidence of compliance with any of the requirements of this compulsory specification and in the case of homologation from a source defined in “Source of Evidence” in clause 10.
3.9
registered manufacturer, importer or builder
any manufacturer, importer or builder of vehicles is required to be registered with the Ghana Standards Authority

3.10
Ghana Standards authority
an organization appointed by the Minister of Trade and Industry to administer the compulsory vehicle specifications on behalf of the Government of Ghana

4 General requirements

4.1 Requirements for lights and lighting equipment

4.1.1 Lights

Lights, if fitted to a vehicle as per clause 4.1.2, shall comply with the installation requirements of clause 4.1.1.1 as determined by the homologation date:

4.1.1.1 For vehicles homologated on or after 1 JANUARY 2020, the lights as fitted in terms of clause 4.1.2.1 and indicated in the Table 1 - Lighting Installation Requirements shall comply with the relevant requirements given in GS 4048:2019, Uniform provisions concerning the approval of vehicles with regard to the installation of lighting and light-signaling devices, as published by Ghana Standards Authority.

4.1.2 Lighting

Lighting shall be fitted to a vehicle as per clause 4.1.2.1 as determined by the homologation date:

4.1.2.1 Vehicles homologated on or after 1 JANUARY 2020 shall have lighting installed as per Table 1 that comply with the relevant requirements given in GS 4048:2019, Uniform provisions concerning the approval of vehicles with regard to the installation of lighting and light-signaling devices, as published by Ghana Standards Authority.

Provided that the specific requirements of the said GS 4048 for

1) dipped beam adjustment devices are not required for vehicles with self leveling suspension; and

2) for vehicles fitted with filament headlamps, the requirements of the following paragraphs in GS 4048 are not applicable;
   6.2.6.1 (Vertical orientation for dipped beam); and
   6.2.6.2 (Headlamp levelling) and
   6.2.6.3 (Measuring procedure).

3) lights indicated as OPTIONAL in Table 1 shall apply for the purposes of this compulsory specification if any motor vehicle is fitted with such devices or lamps.
Table 1 — Lighting Installation Requirements

<table>
<thead>
<tr>
<th>GS 4048 Clause Ref.</th>
<th>Light description</th>
<th>Fitment condition</th>
</tr>
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<tr>
<td>6.1.</td>
<td>Main-Beam Headlamps</td>
<td>Compulsory</td>
</tr>
<tr>
<td>6.2.</td>
<td>Dipped-Beam Headlamps</td>
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<td>6.3.</td>
<td>Front Fog Lamps</td>
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<td>6.4.</td>
<td>Reversing Lamp</td>
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<td>6.5.</td>
<td>Direction Indicator Lamp</td>
<td>Compulsory</td>
</tr>
<tr>
<td>6.7.</td>
<td>Stop Lamp</td>
<td>Compulsory</td>
</tr>
<tr>
<td>6.8.</td>
<td>Rear Registration Plate Lamp</td>
<td>Compulsory</td>
</tr>
<tr>
<td>6.9.</td>
<td>Front Position Lamp</td>
<td>Compulsory</td>
</tr>
<tr>
<td>6.10.</td>
<td>Rear Position Lamp</td>
<td>Compulsory</td>
</tr>
<tr>
<td>6.11.</td>
<td>Rear Fog Lamp</td>
<td>Optional</td>
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<tr>
<td>6.12.</td>
<td>Parking Lamp</td>
<td>Not Required</td>
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<td>6.13.</td>
<td>End-Outline Marker Lamp</td>
<td>Optional</td>
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<tr>
<td>6.14.</td>
<td>Rear Retro-reflector, non-triangular</td>
<td>Compulsory</td>
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<tr>
<td>6.15.</td>
<td>Rear Retro-reflector, triangular</td>
<td>Optional</td>
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<td>6.16.</td>
<td>Front Retro-reflector, non-triangular</td>
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<td>6.17.</td>
<td>Side Retro-reflector, non-triangular</td>
<td>Optional</td>
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<td>6.18.</td>
<td>Side Marker Lamp</td>
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<td>6.19.</td>
<td>Daytime Running Lamp</td>
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<td>6.20.</td>
<td>Cornering Lamp</td>
<td>Optional</td>
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<td>6.21.</td>
<td>Conspicuity Markings</td>
<td>Optional</td>
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<tr>
<td>6.22.</td>
<td>Adaptive Front lighting Systems</td>
<td>Optional</td>
</tr>
</tbody>
</table>

4.2 Requirements for rear-view mirrors and vision

4.2.1 Rear-view mirrors

Rear-view mirrors shall be fitted to a vehicle as per clause 4.2.1.1 as determined by the homologation date.

4.2.1.1 Vehicles homologated on or after 1 JANUARY 2020 shall comply with the relevant requirements given in GS 4046:2019, Uniform provisions concerning the approval of devices for indirect vision and of motor vehicles with regard to the installation of these devices, as published by Ghana Standards Authority, excluding the Markings as required in clause 4 & 5 of GS 4046.

4.2.2 Windscreens, windows and partitions

4.2.2.1 Windscreens

Windscreens shall be fitted to a vehicle as per clause 4.2.2.1.1 as determined by the homologation date.

4.2.2.1.1 Vehicles homologated on or after 1 JANUARY 2020 shall comply with the relevant requirements given in GS 4043:2019, Uniform provisions concerning the approval of safety glazing materials and their installation on vehicles, as published by Ghana Standards Authority.
4.2.2.1.2 For the purposes of this specification, the marking requirements shall be as follows:

a) the windscreen shall bear the glass manufacturer's registered trademark; and

b) the glass fitted shall comply with an approved national standard, recognized by the Ghana Standards Authority, that will provide a method of identifying the glass type.

4.2.2.2 Windows and partitions

Windows and partitions shall be fitted to a vehicle as per clause 4.2.2.2.1 as determined by the homologation date.

4.2.2.2.1 Vehicles homologated on or after 1 JANUARY 2020 shall comply with the relevant requirements given in GS 4043:2019, Uniform provisions concerning the approval of safety glazing materials and their installation on vehicles, as published by Ghana Standards Authority.

4.2.2.2.2 For the purposes of this specification, the marking requirements shall be as follows:

a) the glass shall bear the glass manufacturer’s registered trademark; and

b) the glass fitted shall comply with an approved national standard, recognized by the Ghana Standards Authority, that will provide a method of identifying the glass type.

4.2.3 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.

4.3 Requirements for brakes and braking equipment

Brakes and braking equipment shall be fitted to a vehicle as per clause 4.3.1 as determined by the homologation date.

4.3.1 Vehicles homologated on or after 1 JANUARY 2020 shall be fitted with braking equipment and shall comply with the relevant requirements given in GS 4013:2019, Uniform provisions concerning the approval of vehicles of categories M, N and O with regard to braking, as published by Ghana Standards Authority.

4.4 Requirements for controls, steering mechanism and audible warning devices

4.4.1 Controls

4.4.1.1 General

All controls that are fitted to a vehicle, and that are required for the operation of the vehicle, shall be so located that the driver can reach and operate them when he is seated in the normal driving position, with the seat belt fastened.

4.4.1.2 Left-hand drive

A vehicle shall be of a left-hand drive configuration.
4.4.2 Audible warning devices

Audible warning devices shall be fitted to a vehicle as per clause 4.4.2.1 as determined by the homologation date.

4.4.2.1 Vehicles homologated on or after 1 January 2020 shall be fitted with one or more audible warning devices such that, when they are operated, a continuous sound is emitted at a level of at least 87 dB, and shall comply with the relevant requirements given in GS 4028:2019, *Uniform provisions concerning the approval of audible warning devices and of motor vehicles with regard to their audible signals*, as published by Ghana Standards Authority.

4.5 Requirements for doors, entrances and exits

The doors, entrances and exits of any category M2 motor vehicle shall comply with the applicable requirements of the relevant provisions of the Ghana Road Traffic Regulations, 2012 (L.I. 2180)

4.6 Requirements for seats, seat anchorages, restraining device anchorages and restraining devices (safety belts)

4.6.1 Seats, seat anchorages and head restraints

Seats and seat anchorages shall be fitted to a vehicle as per clause 4.6.1.1 as determined by the homologation date.

4.6.1.1 Vehicles homologated on or after 1 January 2020 shall be fitted with seats, seat anchorages and head restraints that shall comply with the relevant requirements given in GS 4017:2019, *Uniform provisions concerning the approval of vehicles with regard to the seats, their anchorages and any head restraints*, as published by Ghana Standards Authority.

4.6.2 Restraining device anchorages

Restraining device anchorages shall be fitted to a vehicle as per clause 4.6.2.1 as determined by the homologation date for the Driver and Front Passenger seating positions.

4.6.2.1 Vehicles homologated on or after 1 January 2020 shall be fitted with restraining device anchorages that shall comply with the relevant requirements given in GS 4014:2019, *Uniform provisions concerning the approval of vehicles with regard to safety belt anchorages, ISOFIX anchorages systems and ISOFIX top tether anchorages*, as published by Ghana Standards Authority.

4.6.3 Restraining devices (safety belts)

Restraining devices (Safety Belts) shall be fitted to a vehicle as per clause 4.6.3.1 as determined by the homologation date for the Driver and Front Passenger seating positions.

4.6.3.1 Vehicles homologated on or after 1 January 2020 shall be fitted with restraining devices that shall comply with the relevant requirements given in GS 4016:2019, *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*, as published by Ghana Standards Authority.
5 Requirements for the control of environmental interference

5.1. Suppression of atmospheric pollution

Suppression of atmospheric pollution equipment shall be fitted to a vehicle as per clause 4.1.1 as determined by the homologation date.

5.1.1. Vehicles homologated on or after 1 JANUARY 2020 shall comply with the gaseous and particulate emissions requirements of GS 4083:2019, *Uniform provisions concerning the approval of vehicles with regard to the emission of pollutants according to engine fuel requirements*, as published by Ghana Standards Authority.

The minimum vehicle emission requirements are specified at the Euro I level.

5.2 Suppression of noise emission - Vehicles in motion

Suppression of noise emission for Vehicles in motion shall comply as per clause 5.2.1 as determined by the homologation date.

5.2.1. Vehicles homologated on or after 1 JANUARY 2020 shall, with the exception of noise emission originating from audible warning devices, have any noise emitted by a vehicle determined in accordance with GS 4051:2019, *Uniform provisions concerning the approval of motor vehicles having at least four wheels with regard to their noise emissions*, as published by Ghana Standards Authority.

6. Requirements concerning metrological data and vehicle identification

6.1 Vehicle dimensions

The dimensions of a vehicle shall comply with the applicable requirements of the relevant provisions of the Ghana Road Traffic Regulations, 2012 (L.I. 2180)

6.2 Vehicle Identification

6.2.1 Data plates

6.2.1.1 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.

6.2.1.2 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 6.2.1.1.

6.2.1.3 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 letter’s GA/BA or GAU/BAE, as applicable.

6.2.2 Optional data plate

The abbreviations given in 6.2.1.3(a), 6.2.1.3(b) and 6.2.1.3(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.

6.2.3 Vehicle identification number (VIN)

The vehicle identification number shall comply with the relevant requirements given in ISO 3779:1983, Road vehicles - Vehicle identification number (VIN) - Content and structure, and ISO 4030: 1983, Road vehicles - Vehicle identification number (VIN) - Location and attachment, as published by Ghana Standards Authority.

6.2.4 Visible identification

An identification code made up of all 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.

6.3 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 prescribed by the current applicable regulations promulgated under the Weights and Measures decree NRCD 362.

7 Requirements for equipment, components and systems

7.1 Speedometers

Speedometers shall be fitted to a vehicle as per clause 7.1.1 as determined by the homologation date.

7.1.1 Vehicles homologated on or after 1 JANUARY 2020 and that is capable of exceeding a speed of 25 km/h on a level road shall be equipped with speedometer equipment that complies with the relevant requirements given in GS 4039:2019, Uniform provisions concerning the approval of vehicles with regard to the speedometer equipment including its installation, as published by Ghana Standards Authority.
7.2 Engine and transmission

7.2.1 Engine

The engine of a vehicle shall be so fitted with a cover that any part of the engine that constitutes a source of danger is out of normal reach of a person.

7.2.2 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.

7.3 Fuel system

7.3.1 Fuel filler cap

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

7.4 Tyres

Tyres shall be fitted to a vehicle as per clause 7.4.1 or 7.4.2 as determined by the homologation date.

7.4.1 Vehicles homologated on or after 1 JANUARY 2020 shall be fitted with tyres that complies with the relevant requirements given in GS 4030:2019 Uniform provisions concerning the approval of pneumatic tyres for motor vehicles and their trailers as published by Ghana Standards Authority, or

The fitment of Snow Tyres as defined in Clause 2.2 of GS 4030:2019 shall not be allowed.

7.4.2 Vehicles homologated on or after 1 JANUARY 2020 shall be fitted with tyres that complies with the relevant requirements given in GS 4054:2019 Uniform provisions concerning the approval of pneumatic tyres for commercial vehicles and their trailers as published by Ghana Standards Authority.

The fitment of Snow Tyres as defined in Clause 2.2.3 of GS 4054:2019 shall not be allowed.

8 Homologation requirements

8.1 Homologation

Registered manufacturers, importers or builders shall have each model of motor vehicle, covered by the scope of this compulsory specification, successfully homologated by the Ghana Standards authority in accordance with the requirements of GS 4500:2019 Administrative Process for Homologation of Models of Motor Vehicles and its Variants.

8.2 Rights of homologation approval

The rights of homologation approval, so granted for a vehicle model in 8.1, shall lie with the registered manufacturers, importers or builders that obtained such approval. This may only be transferable, to another registered manufacturers, importers or builders on request of the manufacturers, importers or builders that currently owns the rights to the homologation approval, and be authorised by, the Ghana Standards authority.
9 Equivalent requirements

The requirements of any of the standards or requirements stated in column 3 in the appropriate parts given in Table 2 shall be deemed to have been met if compliance with the equivalent standards given in columns 5, 6 or 7 of the same table, or to any of their later amendment levels is achieved.

10 Source of evidence for homologation

The evidence of compliance to any of the requirements of any referred-to standard in this compulsory specification, which requires testing to establish compliance, and a test report, will only be recognized to the Ghana Standards Authority from the following sources:

1) ECE Type Approval Documentation, or
2) A laboratory that is part of an international or regional mutual acceptance scheme, or
3) A laboratory that is accredited to ISO/IEC 17025 by an accreditation body operating in accordance with ISO/IEC 17011, or
4) The laboratory has been successfully assessed against the requirements of ISO/IEC 17025 to the satisfaction of the Ghana Standards Authority.
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<th>Exclusions expiry date (Manufactured/Imported)</th>
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<td>+12 Months 1 January 2021</td>
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<td>4.1.2.1</td>
<td>Installation of lights to GS 4048:2019</td>
<td>1 JANUARY 2020</td>
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<td>4.2.1.1</td>
<td>Rear-view mirrors to GS 4046:2019</td>
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<td>4.2.2.1.1</td>
<td>Windscreen to GS 4043:2019</td>
<td>1 JANUARY 2020</td>
<td>Vehicle models not previously homologated in Ghana</td>
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<td>4.2.2.2.1</td>
<td>Windows &amp; partitions to GS 4043:2019</td>
<td>1 JANUARY 2020</td>
<td>Vehicle models not previously homologated in Ghana</td>
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<td>4.3.1</td>
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<td>Vehicle models not previously homologated in Ghana</td>
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<td>4.4.2.1</td>
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<td>Vehicle models not previously homologated in Ghana</td>
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<tr>
<td>4.6.1.1</td>
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<td>4.6.2.1</td>
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<td>5.1.1</td>
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<td>5.2.1</td>
<td>Vehicle Noise in motion to GS 4051:2019</td>
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<td>Vehicle models not previously homologated in Ghana</td>
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<td>6.2.3</td>
<td>Vehicle Identification number</td>
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<td>6.2.4</td>
<td>Visible Vehicle Identification number</td>
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<td>7.1.1</td>
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Compulsory specification for motor vehicles of category M2

Table 2 — Equivalent standards that shall be deemed to comply with GS standards

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<th>Item</th>
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