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CHAPTER 9

PERMISSIBLE SOUND LEVEL AND EXHAUST SYSTEM OF TWO OR THREE-WHEEL MOTOR VEHICLES

ANNEX I

SOUND LEVEL LIMITS IN dB(A) AND DATES OF ENTRY INTO FORCE FOR COMPONENT TYPE-APPROVAL REGARDING THE PERMISSIBLE SOUND LEVEL OF A TYPE OF TWO OR THREE-WHEEL MOTOR VEHICLE

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ANNEX II

REQUIREMENTS FOR TWO-WHEEL MOPEDS

1. DEFINITIONS

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1.1.

1.1.1.

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1.1.2.

1.1.3.

1.2.

1.2.1.

1.2.2.

1.3.

1.3.1.

1.3.2.

1.3.3.

1.3.4.

1.4.

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2. COMPONENT TYPE-APPROVAL IN RESPECT OF THE SOUND LEVEL AND ORIGINAL EXHAUST SYSTEM, AS A SEPARATE TECHNICAL UNIT, OF A TYPE OF TWO-WHEEL MOPED

2.1. Noise of the two-wheel moped in motion (measuring conditions and method for testing of the vehicle during component type-approval).

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- 2.1.1. Limits: see Annex I.
- 2.1.2. Measuring instruments
 - 2.1.2.1.
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 - 2.1.2.2.
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- 2.1.3. Conditions of measurement
 - 2.1.3.1.
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 - 2.1.3.2.
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 - 2.1.3.3.
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- 2.1.4. Method of measurement
 - 2.1.4.1.
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 - 2.1.4.2.
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 - 2.1.4.3.
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 - 2.1.4.3.1.

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2.1.4.3.2.....

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2.1.5. Results (test report)

2.1.5.1.

2.1.5.2.

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2.1.5.3.

2.1.5.4.

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2.2. Noise from stationary moped (measuring conditions and method for testing of the vehicle in use)

2.2.1. Sound-pressure level in the immediate vicinity of the moped

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2.2.2. Measuring instruments

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2.2.3. Conditions of measurement

2.2.3.1.

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2.2.3.2.

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2.2.3.3.

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2.2.4. Method of measurement

2.2.4.1.

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2.2.4.2.

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2.2.4.3.

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2.2.5. Results (test report)

2.2.5.1.

2.2.5.2.

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2.2.5.3.

2.3. Original exhaust system (silencer)

2.3.1.

2.3.1.1.

2.3.1.2.

2.3.1.3.

2.3.1.3.1.....

2.3.1.3.2.....

2.3.1.3.3.....

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2.3.1.4.

2.3.1.4.1.....

2.3.1.4.1.1.....

2.3.1.4.1.2.....

2.3.1.4.1.3.....

2.3.1.4.1.4.....

2.3.1.4.2.....

2.3.1.4.2.1.....

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2.3.1.4.2.2.

2.3.1.4.2.3.

2.3.1.4.2.4.

2.3.1.4.2.5.

2.3.1.4.2.6.

2.3.1.4.2.7.

2.3.1.4.2.8.

2.3.1.4.3.

2.3.1.4.3.1.

2.3.1.4.3.2.

2.3.1.4.3.3.

2.3.1.4.3.4.

2.3.1.4.3.5.

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2.3.2. Diagram and markings

2.3.2.1.

2.3.2.2.

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2.3.2.3.

2.3.3. Intake silencer

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3. COMPONENT TYPE-APPROVAL OF A NON-ORIGINAL EXHAUST SYSTEM OR COMPONENTS THEREOF, AS A SEPARATE TECHNICAL UNIT, FOR TWO-WHEEL MOPEDS

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3.1. Definition

3.1.1.

3.2. Application for component type-approval

3.2.1.

3.2.2.

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- 3.2.2.1.
- 3.2.2.2.
- 3.2.2.3.
- 3.2.3.
- 3.2.3.1.
- 3.2.3.2.
- 3.2.3.3.
- 3.2.3.3.1.....
-
- 3.2.3.3.2.....
- 3.2.3.4.
- 3.3. **Markings and inscriptions**
- 3.3.1.
- 3.4. **Component type-approval**
- 3.4.1.
- 3.5. **Specifications**
- 3.5.1. **General specifications**
-
- 3.5.1.1.
- 3.5.1.2.
- 3.5.1.3.
- 3.5.1.4.
- 3.5.1.5.
- 3.5.1.6.
- 3.5.1.7.
- 3.5.1.8.
- 3.5.2. **Specifications for sound levels**
- 3.5.2.1.
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- 3.5.2.1.1.....
- 3.5.3. **Testing of moped performance**

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- 3.5.3.1.
- 3.5.3.2.
- 3.5.3.3.
- 3.5.4.
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- 3.5.5. Evaluation of the emission of pollutants of vehicles equipped with replacement silencer system
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Appendix 1A

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Appendix 1B

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Appendix 2A

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Appendix 2B

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ANNEX III

REQUIREMENTS FOR MOTORCYCLES

1. DEFINITIONS

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1.1.

1.1.1.

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1.1.2.

1.1.3.

1.2.

1.2.1.

1.2.2.

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- 1.3.
- 1.3.1.
- 1.3.2.
- 1.3.3.
- 1.3.4.
- 1.4.
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- 1.5.
-

2. COMPONENT TYPE-APPROVAL IN RESPECT OF THE SOUND LEVEL AND ORIGINAL EXHAUST SYSTEM, AS A SEPARATE TECHNICAL UNIT, OF A TYPE OF MOTORCYCLE

- 2.1. Noise of the motorcycle in motion (measuring conditions and method for testing of the vehicle during component type-approval)
 - 2.1.1. Limits: see Annex I.
 - 2.1.2. Measuring instruments
 - 2.1.2.1.
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 -
 - 2.1.2.2.
 -
 -
 - 2.1.3. Conditions of measurement
 - 2.1.3.1.
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 - 2.1.3.2.
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 - 2.1.3.3.
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2.1.4. Method of measurement

2.1.4.1.

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2.1.4.2.

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2.1.4.3.

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2.1.4.3.1.

2.1.4.3.1.1.

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2.1.4.3.1.2.

2.1.4.3.1.2.1.

2.1.4.3.1.2.2.

2.1.4.3.1.2.3.

2.1.4.3.1.2.4.

2.1.4.3.2.

2.1.4.3.2.1.

2.1.4.3.2.1.1.

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2.1.4.3.2.2.

2.1.4.3.2.2.1.

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2.1.4.3.2.2.2.

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2.1.4.4.

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2.1.5. Results (test report)

2.1.5.1.

2.1.5.2.

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.....

2.1.5.3.

2.1.5.4.

2.1.5.5.

.....

2.2. Noise from stationary motorcycle (measuring conditions and method for testing of the vehicle in use)

2.2.1. Sound-pressure level in the immediate vicinity of the motorcycle

.....

2.2.2. Measuring instruments

.....

2.2.3. Conditions of measurement

2.2.3.1.

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2.2.3.2.

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2.2.3.3.

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2.2.4. Method of measurement

2.2.4.1.

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2.2.4.2.

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2.2.4.3.

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2.2.5. Results (test report)

2.2.5.1.

2.2.5.2.

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.....

2.2.5.3.

.....
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2.3. Original exhaust system (silencer)

2.3.1. Requirements for silencers containing absorbent fibrous materials

2.3.1.1.

2.3.1.2.

2.3.1.3.

2.3.1.3.1.

2.3.1.3.2.

2.3.1.3.3.

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2.3.1.4.

2.3.1.4.1.

2.3.1.4.1.1.

2.3.1.4.1.2.

2.3.1.4.1.3.

2.3.1.4.1.4.

2.3.1.4.2.

2.3.1.4.2.1.

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- 2.3.1.4.2.2.
- 2.3.1.4.2.3.
- 2.3.1.4.2.4.
- 2.3.1.4.2.5.
- 2.3.1.4.2.6.
- 2.3.1.4.2.7.
- 2.3.1.4.2.8.
- 2.3.1.4.3.
- 2.3.1.4.3.1.
- 2.3.1.4.3.2.
- 2.3.1.4.3.3.
- 2.3.1.4.3.4.
- 2.3.1.4.3.5.

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2.3.2. Diagram and markings

- 2.3.2.1.
- 2.3.2.2.
-
-
- 2.3.2.3.

2.3.3. Intake silencer

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3. COMPONENT TYPE-APPROVAL OF A NON-ORIGINAL EXHAUST SYSTEM OR COMPONENTS THEREOF, AS TECHNICAL UNITS, FOR MOTORCYCLES

.....

3.1. Definition

- 3.1.1.

3.2. Application for component type-approval

- 3.2.1.
- 3.2.2.
- 3.2.2.1.

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- 3.2.2.2.
- 3.2.2.3.
- 3.2.3.
- 3.2.3.1.
- 3.2.3.2.
- 3.2.3.3.
- 3.2.3.3.1.
-
- 3.2.3.3.2.
- 3.2.3.4.
- 3.3. **Markings and inscriptions**
- 3.3.1.
- 3.4. **Component type-approval**
- 3.4.1.
- 3.5. **Specifications**
- 3.5.1.
-
- 3.5.1.1.
- 3.5.1.2.
- 3.5.1.3.
- 3.5.1.4.
- 3.5.1.5.
- 3.5.1.6.
- 3.5.1.7.
- 3.5.1.8.
- 3.5.2. **Specifications for sound levels**
- 3.5.2.1.
-
- 3.5.2.1.1.
- 3.5.3. **Testing of motorcycle performance**
- 3.5.3.1.

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3.5.3.2.

3.5.3.3.

3.5.4.

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3.5.5. Evaluation of the emission of pollutants of vehicles equipped with replacement silencer system

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Appendix 1A

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Appendix 1B

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Appendix 2A

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Appendix 2B

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ANNEX IV

REQUIREMENTS FOR THREE-WHEEL MOPEDS AND TRICYCLES

1. DEFINITIONS

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1.1.

1.1.1.

1.1.2.

1.1.3.

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1.1.4.

1.1.5.

1.2.

1.2.1.

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- 1.2.2.
- 1.3.
- 1.3.1.
- 1.3.2.
- 1.3.3.
- 1.3.4.
- 1.4.
-
- 1.5.
-
- 2. COMPONENT TYPE-APPROVAL IN RESPECT OF THE SOUND LEVEL AND ORIGINAL EXHAUST SYSTEM, AS A SEPARATE TECHNICAL UNIT, OF A TYPE OF THREE-WHEEL MOPED OR TRICYCLE
- 2.1. Noise of the three-wheel moped or tricycle (measuring conditions and method for testing of the vehicle during component type-approval).
- 2.1.1.
- 2.1.2.
- 2.2. Specifications for sound levels
- 2.2.1. Limits: see Annex I.
- 2.2.2. Measuring instruments
- 2.2.2.1.
-
- 2.2.2.2.
-
- 2.2.3. Conditions of measurement
- 2.2.3.1.
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- 2.2.3.1.1.
- 2.2.3.2.
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- 2.2.3.3.

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2.2.4. Method of measurement

2.2.4.1.
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2.2.4.2.
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2.2.4.3.
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2.2.4.3.1.

2.2.4.4.

2.2.4.4.1.
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2.2.4.4.2.
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2.2.4.4.3.
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2.2.4.5.
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2.2.5. Results (test report)

2.2.5.1.

2.2.5.2.
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2.2.5.3.

2.2.5.4.

2.2.5.5.
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2.3. Measurement of the noise of the stationary vehicle (for testing the vehicle in use)

2.3.1.

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2.3.2. Measuring instruments

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2.3.3. Conditions of measurement

2.3.3.1.

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2.3.3.2.

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2.3.3.3.

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2.3.4. Method of measurement

2.3.4.1.

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2.3.4.2.

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2.3.4.3.

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.....

2.3.5. Results (test report)

2.3.5.1.

2.3.5.2.

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2.3.5.3.

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2.4. Original exhaust system (silencer)

2.4.1. Requirements for silencers containing absorbent fibrous materials

2.4.1.1.

2.4.1.2.

2.4.1.3.

2.4.1.3.1.....

2.4.1.3.2.....

2.4.1.3.3.....

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2.4.1.4.

2.4.1.4.1.....

2.4.1.4.1.1.....

2.4.1.4.1.2.....

2.4.1.4.1.3.....

2.4.1.4.1.4.....

2.4.1.4.2.....

2.4.1.4.2.1.....

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2.4.1.4.2.2.....

2.4.1.4.2.3.....

2.4.1.4.2.4.....

2.4.1.4.2.5.....

2.4.1.4.2.6.....

2.4.1.4.2.7.....

2.4.1.4.2.8.....

2.4.1.4.3.....

2.4.1.4.3.1.....

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- 2.4.1.4.3.2.
- 2.4.1.4.3.3.
- 2.4.1.4.3.4.
- 2.4.1.4.3.5.
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2.4.2. Diagram and markings

- 2.4.2.1.
- 2.4.2.2.
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-
- 2.4.2.3.

2.4.3. Intake silencer

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3. COMPONENT TYPE-APPROVAL IN RESPECT OF A NON-ORIGINAL EXHAUST SYSTEM OR COMPONENTS THEREOF, AS SEPARATE TECHNICAL UNITS, FOR THREE-WHEEL MOPEDS AND TRICYCLES

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3.1. Definition

- 3.1.1.

3.2. Application for component type-approval

- 3.2.1.
- 3.2.2.
- 3.2.2.1.
- 3.2.2.2.
- 3.2.2.3.
- 3.2.3.
- 3.2.3.1.
- 3.2.3.2.
- 3.2.3.3.
- 3.2.3.3.1.
-
- 3.2.3.3.2.

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- 3.2.3.4.
- 3.3. Markings and inscriptions
 - 3.3.1.
- 3.4. Component type-approval
 - 3.4.1.
- 3.5. Specifications
 - 3.5.1. General specifications
 -
 - 3.5.1.1.
 - 3.5.1.2.
 - 3.5.1.3.
 - 3.5.1.4.
 - 3.5.1.5.
 - 3.5.1.6.
 - 3.5.1.7.
 - 3.5.1.8.
 - 3.5.2. Specifications for sound levels
 - 3.5.2.1.
 -
 - 3.5.2.1.1.
 - 3.5.3. Testing of vehicle performance
 - 3.5.3.1.
 - 3.5.3.2.
 - 3.5.3.3.
 - 3.5.4. Additional provisions relating to silencers as separate technical units containing fibrous material
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 - 3.5.5. Evaluation of the emission of pollutants of vehicles equipped with replacement silencer system
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Appendix 1B

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Appendix 2A

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Appendix 2B

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ANNEX V

PRODUCTION CONFORMITY REQUIREMENTS

1. VEHICLE CONFORMITY

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2. CONFORMITY OF A NON-ORIGINAL REPLACEMENT EXHAUST SYSTEM

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ANNEX VI

MARKING REQUIREMENTS

1.

1.1.

1.2.

1.3.

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4.1.

4.2.

4.3.

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- 5.1.
- 5.2.
- 5.3.

6. FURTHER INFORMATION CONTAINED IN THE TYPE-APPROVAL MARK

- 6.1.
- 6.1.1. Non-original exhaust system which consists of a sole part integrating both the silencer and the catalytic converter
.....
- 6.1.2. Non-original exhaust system separated from the catalytic converter
.....
- 6.1.3. Non-original exhaust system consisting of a sole part (silencer) for vehicles which are not type-approved according to the Chapter 5
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Appendix

Examples of type-approval mark

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ANNEX VII

TEST TRACK SPECIFICATIONS

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- 1. REQUIRED CHARACTERISTICS OF SURFACE
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- 1.1. Residual voids content
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3.2. Sound absorption coefficient

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3.3. Volumetric macrotexture measurement

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4. STABILITY IN TIME AND MAINTENANCE

4.1. Age influence

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4.2. Maintenance of the surface

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4.3. Repaving the test area

.....

5. DOCUMENTATION OF THE SURFACE AND OF TESTS PERFORMED ON IT

5.1. Documentation of the test surface

.....
.....

5.2. Documentation of vehicle noise tests concluded on the surface

.....