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*Changes to legislation:* There are outstanding changes not yet made to Commission Regulation (EU) No 1230/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

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Commission Regulation (EU) No 1230/2012 of 12 December 2012 implementing Regulation (EC) No 661/2009 of the European Parliament and of the Council with regard to type-approval requirements for masses and dimensions of motor vehicles and their trailers and amending Directive 2007/46/EC of the European Parliament and of the Council (Text with EEA relevance)

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## ANNEX V

### [<sup>F1</sup>PART A

#### **EC type-approval of motor vehicles and their trailers with regard to the masses and dimensions of a vehicle**

#### **INFORMATION DOCUMENT**

#### **MODEL]**

Information document No ... relating to the EC type-approval of a motor vehicle and their trailers with regard the masses and dimensions of a vehicle.

The following information shall be supplied in triplicate and include a list of contents. Any drawings shall be supplied in appropriate scale and in sufficient detail on size A4 or on a folder of A4 format. Photographs, if any, shall show sufficient detail.

0. GENERAL
  - 0.1. Make (trade name of manufacturer): ...
  - 0.2. Type: ...
    - 0.2.1. Commercial name(s) (if available): ...
  - 0.4. Category of vehicle<sup>(1)</sup>: ...
  - 0.5. Company name and address of manufacturer: ...
  - 0.8. Name(s) and address(es) of assembly plant(s): ...
  - 0.9. Name and address of the manufacturer's representative (if any): ...
1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE
  - 1.1. Photographs and/or drawings of a representative vehicle: ...
  - 1.2. Dimensional drawing of the whole vehicle: ...
  - 1.3. Number of axles and wheels: ...
    - 1.3.1. Number and position of axles with twin wheels: ...
    - 1.3.2. Number and position of steered axles: ...
    - 1.3.3. Powered axles (number, position, interconnection): ...
  - 1.4. Chassis (if any) (overall drawing): ...
  - 1.7. Driving cab (forward control or bonneted)<sup>(2)</sup>: ...
  - 1.9. Specify if the towing vehicle is intended to tow semi-trailers or other trailers and, if the trailer is a semi-, drawbar-, centre-axle- or rigid drawbar trailer: ...
  - 1.10. Specify if the vehicles is specially designed for the controlled-temperature carriage of goods: ...
2. MASSES AND DIMENSIONS<sup>(3)(4)(5)</sup>

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(in kg and mm) (Refer to drawing where applicable)

- 2.1. **Wheel base(s) (fully loaded)<sup>(6)</sup>:** ...
  - 2.1.1. Two-axle vehicles: ...
  - 2.1.2. Vehicles with three or more axles
    - 2.1.2.1. Axle spacing between consecutive axles going from the foremost to the rearmost axle: ...
    - 2.1.2.2. Total axle spacing: ...
- 2.2. **Fifth wheel**
  - 2.2.1. In the case of semi-trailers
    - 2.2.1.1. Distance between the axis of the fifth wheel kingpin and the rearmost end of the semi-trailer: ...
    - 2.2.1.2. Maximum distance between the axis of the fifth wheel king pin and any point on the front of the semi-trailer: ...
    - 2.2.1.3. Semi-trailer reference wheelbase (as required in point 3.2 of Part D of Annex I to Regulation (EU) No 1230/2012: ...
  - 2.2.2. In the case of semi-trailer towing vehicles
    - 2.2.2.1. Fifth wheel lead (maximum and minimum; indicate the permissible values in the case of an incomplete vehicle)<sup>(7)</sup>: ...
- 2.3. **Axle track(s) and width(s)**
  - 2.3.1. Track of each steered axle<sup>(8)</sup>: ...
  - 2.3.2. Track of all other axles<sup>(8)</sup>: ...
- 2.4. **Range of vehicle dimensions (overall)**
  - 2.4.1. For chassis without bodywork
    - 2.4.1.1. Length<sup>(9)</sup>: ...
      - 2.4.1.1.1. Maximum permissible length: ...
      - 2.4.1.1.2. Minimum permissible length: ...
      - 2.4.1.1.3. In the case of trailers, maximum permissible drawbar length<sup>(10)</sup>: ...
    - 2.4.1.2. Width<sup>(11)</sup>: ...
      - 2.4.1.2.1. Maximum permissible width: ...
      - 2.4.1.2.2. Minimum permissible width: ...
    - 2.4.1.3. Height<sup>(12)</sup> (for suspensions adjustable for height, indicate normal running position): ...
    - 2.4.1.4. Front overhang<sup>(13)</sup>: ...
      - 2.4.1.4.1. Approach angle<sup>(14)(15)</sup>: ... degrees.

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- 2.4.1.5. Rear overhang<sup>(16)</sup>: ...
  - 2.4.1.5.1. Departure angle<sup>(17)(15)</sup>: ... degrees.
  - 2.4.1.5.2. Minimum and maximum permissible overhang of the coupling point<sup>(18)</sup>: ...
- 2.4.1.6. Ground clearance (as defined in points 3.1.1 and 3.2.1 of Appendix 1 to Annex II to Directive 2007/46/EC)
  - 2.4.1.6.1. Between the axles: ...
  - 2.4.1.6.2. Under the front axle(s): ...
  - 2.4.1.6.3. Under the rear axle(s): ...
- 2.4.1.8. Position of the centre of gravity of the bodywork and/or interior fittings and/or equipment and/or pay-mass (minimum and maximum): ...
- 2.4.2. For chassis with bodywork
  - 2.4.2.1. Length<sup>(9)</sup>: ...
    - 2.4.2.1.1. Length of the loading area: ...
    - [<sup>F2</sup>2.4.2.1. Elongated cab complying to Article 9a of Directive 96/53/EC: yes/no(<sup>1</sup>)]

#### Textual Amendments

**F2** Inserted by [Commission Regulation \(EU\) 2019/1892 of 31 October 2019 amending Regulation \(EU\) No 1230/2012 as regards type-approval requirements for certain motor vehicles fitted with elongated cabs and for aerodynamic devices and equipment for motor vehicles and their trailers \(Text with EEA relevance\).](#)

- 2.4.2.2. Width<sup>(11)</sup>: ...
  - 2.4.2.2.1. Thickness of the walls (in the case of vehicles designed for controlled-temperature carriage of goods): ...
- 2.4.2.3. Height<sup>(12)</sup> (for suspensions adjustable for height, indicate normal running position): ...
- 2.4.2.4. Front overhang<sup>(13)</sup>: ...
  - 2.4.2.4.1. Approach angle<sup>(14)(15)</sup>: ... degrees.
- 2.4.2.5. Rear overhang<sup>(16)</sup>: ...
  - 2.4.2.5.1. Departure angle<sup>(17)(15)</sup>: ... degrees.
  - 2.4.2.5.2. Minimum and maximum permissible overhang of the coupling point<sup>(18)</sup>: ...
- 2.4.2.6. Ground clearance (as defined in points 3.1.1 and 3.2.1 of Appendix 1 to Annex II to Directive 2007/46/EC)<sup>(15)</sup>
  - 2.4.2.6.1. Between the axles: ...
  - 2.4.2.6.2. Under the front axle(s): ...

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- 2.4.2.6.3. Under the rear axle(s): ...
- 2.4.2.8. Positions of the centre of gravity of the pay-mass (in the case of non-uniform load): ...
- 2.4.3. For bodywork approved without chassis (vehicles M<sub>2</sub> and M<sub>3</sub>)
- 2.4.3.1. Length<sup>(9)</sup>: ...
- 2.4.3.2. Width<sup>(10)</sup>: ...
- 2.4.3.3. Height<sup>(12)</sup> on intended chassis type(s) (for suspensions adjustable for height, indicate normal running position): ...
- 2.5. **Minimum mass on the steering axle(s) for incomplete vehicles:** ...
- 2.6. **Mass in running order<sup>(19)</sup>**
- (a) minimum and maximum for each variant: ...
- 2.6.1. Distribution of this mass among the axles and, in the case of a semi-trailer, centre-axle trailer or rigid drawbar trailer, the mass on the coupling point: ...
- (a) minimum and maximum for each variant: ...
- 2.6.2. Mass of the optional equipment (see definition No 5 of Article 2 of Regulation (EU) No 1230/2012: ...
- [F<sup>2</sup>2.6.4. Additional mass for alternative propulsion: ... kg]
- 2.8. **Technically permissible maximum laden mass<sup>(20)</sup>:** ...
- 2.8.1. Distribution of this mass among the axles and, in the case of a semi-trailer, centre-axle trailer or rigid drawbar trailer, load on the coupling point: ...
- 2.9. **Technically permissible maximum mass on each axle:** ...
- 2.10. **Technically permissible maximum mass on each group of axles:** ...
- 2.11. **Technically permissible maximum towable mass of the towing vehicle**  
in case of:
- 2.11.1. Drawbar trailer: ...
- 2.11.2. Semi-trailer: ...
- 2.11.3. Centre-axle trailer: ...
- 2.11.4. Rigid drawbar trailer: ...
- 2.11.4.1. Maximum ratio of the coupling overhang<sup>(21)</sup> to the wheel base: ...
- 2.11.4.2. Maximum V-value: ... kN.
- 2.11.5. Technically permissible maximum laden mass of the combination: ...
- 2.11.6. Maximum mass of unbraked trailer: ...
- 2.12. **Technically permissible maximum mass at the coupling point:**

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- 2.12.1. of a towing vehicle: ...
- 2.12.2. of a semi-trailer, a centre-axle trailer or a rigid drawbar trailer: ...
- 2.12.3. Maximum permissible mass of the coupling device (if not fitted by the manufacturer): ...
- 2.16. **Intended registration/in service maximum permissible masses (optional)**
- 2.16.1. Registration/in service maximum permissible laden mass<sup>(22)</sup>: ...
- 2.16.2. Registration/in service maximum permissible mass on each axle and, in the case of a semi-trailer or centre-axle trailer, intended load on the coupling point stated by the manufacturer if lower than the technically permissible maximum mass on the coupling point<sup>(22)</sup>: ...
- 2.16.3. Registration/in service maximum permissible mass on each group of axles<sup>(22)</sup>: ...
- 2.16.4. Registration/in service maximum permissible towable mass<sup>(22)</sup>: ...
- 2.16.5. Registration/in service maximum permissible mass of the combination<sup>(22)</sup>: ...
- 3. **POWER PLANT<sup>(23)</sup>**
- 3.1. **Manufacturer of the engine: ...**
- 3.2. **Internal combustion engine**
- 3.2.1.8. Maximum net power<sup>(24)</sup>: ... kW at ... min<sup>-1</sup> (manufacturer's declared value)
- Note:* for the purposes of this Regulation, it is permitted to refer to the engine that shows the lowest power
- 3.3. **Electric motor**
- 3.3.1.1. Maximum hourly output: ... kW
- 3.4. **Engine or motor combination**
- 3.4.1. Hybrid electric vehicle: yes/no<sup>(25)</sup>
- 3.4.5.4. Maximum power: ... kW
- [<sup>F23</sup>3.9. **List of equipment to for alternative propulsion (and indication of the mass of the parts): ...]**
- 4. **TRANSMISSION<sup>(26)</sup>**
- 4.1. **Drawing of the transmission<sup>(15)</sup>: ...**
- 5. **AXLES**
- 5.1. Description of each axle: ...
- 5.2. Make: ...
- 5.3. Type: ...
- 5.4. Position of lift axle(s): ...

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- 5.5. Position of loadable axle(s): ...
- 6. SUSPENSION
  - 6.1. Drawing of the suspension arrangements: ...
  - 6.2. Type and design of the suspension of each axle or group of axles or wheel: ...
    - 6.2.3. Air-suspension for driving axle(s): yes/no<sup>(25)</sup>
      - 6.2.3.1. Suspension of driving axle(s) equivalent to air-suspension: yes/no<sup>(25)</sup>
      - 6.2.3.2. Frequency and damping of the oscillation of the sprung mass: ...
    - 6.2.4. Air-suspension for non-driving axle(s): yes/no<sup>(25)</sup>
      - 6.2.4.1. Suspension of non-driving axle(s) equivalent to air-suspension: yes/no<sup>(25)</sup>
      - 6.2.4.2. Frequency and damping of the oscillation of the sprung mass: ...
  - 6.3. Distribution of the mass between the axles which are part of a group of axles (where necessary, provide appropriate graphs): ...
  - 6.6. Tyres and wheels
    - 6.6.1. Tyre/wheel combination(s)<sup>(27)</sup>
      - (a) for tyres indicate
        - (i) size designation: ...
        - (ii) load-capacity index: ...
        - (iii) speed category symbol: ...
    - 6.6.1.1. Axles
      - 6.6.1.1.1. Axle 1: ...
      - 6.6.1.1.2. Axle 2: ...
      - etc.
- 9. BODYWORK
  - 9.1. Type of bodywork using the codes defined in Part C of Annex II: ...
    - 9.10.3. Seats
      - 9.10.3.1. Number of seating positions<sup>(28)</sup>: ...
        - 9.10.3.1.1. Location and arrangement: ...
        - 9.10.3.5. Coordinates or drawing of the R-point<sup>(29)</sup>
          - 9.10.3.5.1. Driver's seat: ...
          - 9.10.3.5.2. All other seating positions: ...
- 19.25. Elongated Cabs complying to Article 9a of Directive 96/53/EC

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- 9.25.1. Detailed technical description (including photographs and drawings, as well as description of the materials) of the vehicle parts relevant to Part C, point 1.4 of Annex I to Regulation (EU) No 1230/2012: ...
- 9.26. Aerodynamic device or equipment on the front of the vehicle
  - 9.26.1. Vehicle equipped with aerodynamic device or equipment on the front: yes/no<sup>(1)</sup>
  - 9.26.2. Type-approval number of the aerodynamic device or equipment, if available: ... or, if not available:
  - 9.26.3. Detailed description (including photographs or drawings) of the aerodynamic device or equipment
    - 9.26.3.1. Construction and materials: ...
    - 9.26.3.2. Locking and adjustment system: ...
    - 9.26.3.3. Attachment and mounting to the vehicle: ...
- 9.27. Aerodynamic device or equipment on the rear of the vehicle
  - 9.27.1. Vehicle equipped with aerodynamic device or equipment on the rear: yes/no<sup>(1)</sup>
  - 9.27.2. Type-approval number of the aerodynamic device or equipment, if available ... or, if not available:
  - 9.27.3. Detailed description (including photographs or drawings) of the aerodynamic device or equipment
    - 9.27.3.1. Construction and materials: ...
    - 9.27.3.2. Locking and adjustment system: ...
    - 9.27.3.3. Attachment and mounting to the vehicle: ...]
- 11. CONNECTIONS BETWEEN TOWING VEHICLES AND TRAILERS AND SEMI-TRAILERS
  - 11.1. Class and type of the coupling device(s) fitted or to be fitted: ...
  - 11.2. Characteristics D, U, S and V of the coupling device(s) fitted or minimal characteristics D, U, S and V of the coupling device(s) to be fitted: ... daN
- 13. SPECIAL PROVISIONS FOR BUSES AND COACHES
  - 13.1. Class of vehicle: Class I/Class II/Class III/Class A/Class B<sup>(25)</sup>
  - 13.2. Area for passengers (m<sup>2</sup>)
    - 13.2.1. Total (S<sub>0</sub>): ...
    - 13.2.2. Upper deck (S<sub>0a</sub>)<sup>(25)</sup>: ...
    - 13.2.3. Lower deck (S<sub>0b</sub>)<sup>(25)</sup>: ...
    - 13.2.4. For standing passengers (S<sub>1</sub>): ...
  - 13.3. Number of passengers (seated and standing)



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- 13.3.1. Total (N): ...
- 13.3.2. Upper deck (N<sub>a</sub>)<sup>(25)</sup>: ...
- 13.3.3. Lower deck (N<sub>b</sub>)<sup>(25)</sup>: ...
- 13.4. Number of passengers seated
  - 13.4.1. Total (A): ...
  - 13.4.2. Upper deck (A<sub>a</sub>)<sup>(25)</sup>: ...
  - 13.4.3. Lower deck (A<sub>b</sub>)<sup>(25)</sup>: ...
  - 13.4.4. Number of wheelchair positions for category M<sub>2</sub> and M<sub>3</sub> vehicles: ...
- 13.7. Volume of luggage compartments (m<sup>3</sup>): ...
- 13.12. Drawing with dimensions showing the interior arrangement as regards the seating positions, area for standees, wheelchair user(s), luggage compartments including racks and ski-box, if any

*Explanatory notes*

- (<sup>b</sup>) If the means of identification of type contains characters not relevant to describe the vehicle, component or separate technical unit types covered by this information document, such characters shall be represented in the documentation by the symbol “?” (e.g. ABC??123??).
- (<sup>g3</sup>) — term No 6.20.
- (<sup>g14</sup>) — term No 6.9.
- (<sup>l</sup>) This figure shall be rounded off to the nearest tenth of a millimetre.
- (<sup>o</sup>) Determined in accordance with the requirements of Council Directive 80/1268/EEC<sup>(30)</sup>.

**Textual Amendments**

- F1** Substituted by Commission Regulation (EU) 2019/1892 of 31 October 2019 amending Regulation (EU) No 1230/2012 as regards type-approval requirements for certain motor vehicles fitted with elongated cabs and for aerodynamic devices and equipment for motor vehicles and their trailers (Text with EEA relevance).

[<sup>F1</sup>PART B

**EC type-approval certificate of motor vehicles and their  
trailers with regard to the masses and dimensions of vehicles**  
MODELFormat: A4 (210 × 297 mm)EC TYPE-APPROVAL CERTIFICATE]

Stamp of type-approval authority

Communication concerning:

**Changes to legislation:** There are outstanding changes not yet made to Commission Regulation (EU) No 1230/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

—	EC type-approval <sup>(1)</sup>	of a type of vehicle with regard to its masses and dimensions
—	extension of EC type-approval <sup>(1)</sup>	
—	refusal of EC type-approval <sup>(1)</sup>	
—	withdrawal of EC type-approval <sup>(1)</sup>	

[<sup>F1</sup>with regard to Regulation (EU) No 1230/2012, as last amended by Regulation (EU) 2019/1892,]

EC type-approval number:

Reason for extension:

**SECTION 0.1.**

*I*

Make (trade name of manufacturer):

0.2. Type:

0.2.1. Commercial name(s) (if available):

0.4. Category of vehicle (2):

0.5. Company name and address of manufacturer:

0.8. Name(s) and address(es) of assembly plant(s):

0.9. Name and address of the manufacturer's representative (if any):

**SECTION.**

*II*

Additional information (where applicable): see Addendum

2. Technical service responsible for carrying out the tests:

3. Date of test report:

4. Number of test report:

5. Remarks (if any):

6. Place:

7. Date:

8. Signature:

Attachments : (1) Information package (all pages must bear the stamp of the type-approval authority).

(2) Test report.

(3) For vehicles fitted with a suspension that is recognised to be equivalent to air suspension, the test report and the technical description of the suspension.

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[<sup>F1</sup>Addendum] **EC type-approval certificate No ...**

1. Derogations
  - 1.1. The vehicle has been type-approved in accordance with Article 6(1) of this Regulation (i.e. the outermost dimensions of the vehicle exceeds the maximum dimensions mentioned in Part A, B, C or D of Annex I): yes/no<sup>(31)</sup>
  - 1.2. The vehicle has been type-approved for the purposes of Article 8b of Directive 96/53/EC (i.e. aerodynamic devices or equipment at the rear of the vehicle): yes/no<sup>(31)</sup>
  - 1.3. The vehicle has been type-approved for the purposes of with Article 9a of Directive 96/53/EC (i.e. an elongated cab or a cab fitted with aerodynamic devices or equipment): yes/no<sup>(31)</sup>
  - 1.4. The vehicle has been type-approved for the purposes of Article 10b of Directive 96/53/EC:
    - 1.4.1. Additional weight of alternatively fuelled vehicles: yes/no<sup>(31)</sup>
    - 1.4.2. Additional weight of zero-emission vehicles: yes/no<sup>(31)</sup>
2. The vehicle is fitted with air-suspension: yes/no<sup>(31)</sup>
3. The vehicle is fitted with a suspension recognised to be equivalent to air-suspension: yes/no<sup>(31)</sup>
4. The vehicle fulfils the requirements for an off-road vehicle: yes/no<sup>(31)</sup>
5. Remarks: ...]

[<sup>F2</sup>PART C

**EC type-approval of an aerodynamic device or equipment as a separate technical unit**

**Information document**

**MODEL**

Information document No ... relating to the EC type-approval of an aerodynamic device or equipment as a separate technical unit.

The following information shall be supplied in triplicate and include a list of contents. Any drawings shall be supplied in appropriate scale and in sufficient detail on size A4 or on a folder of A4 format. Photographs, if any, shall show sufficient detail.

If the separate technical units referred to in this information document have electronic controls, information concerning their performance shall also be supplied.

0. GENERAL
  - 0.1. Make (trade name of manufacturer): ...
  - 0.2. Type: ...

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- 0.3. Means of identification of type, if marked on the separate technical unit <sup>(b)</sup>: ...
  - 0.3.1. Location of that marking: ...
  - 0.5. Name and address of manufacturer: ...
  - 0.7. Location and method of affixing the EC type- approval mark: ...
  - 0.8. Name(s) and address(es) of assembly plant(s): ...
  - 0.9. Name and address of the manufacturer's representative (if any): ...
  - 9.26. Aerodynamic device or equipment on the front of the vehicle
    - 9.26.1. Vehicle equipped with aerodynamic device or equipment on the front: yes/no <sup>(1)</sup>
    - 9.26.2. Type-approval number of the aerodynamic device or equipment, if available: ... or, if not available:
    - 9.26.3. Detailed description (including photographs or drawings) of the aerodynamic device or equipment
      - 9.26.3.1. Construction and materials: ...
      - 9.26.3.2. Locking and adjustment system: ...
      - 9.26.3.3. Attachment and mounting to the vehicle: ...
  - 9.27. Aerodynamic device or equipment on the rear of the vehicle
    - 9.27.1. Vehicle equipped with aerodynamic device or equipment on the rear: yes/no <sup>(1)</sup>
    - 9.27.2. Type-approval number of the aerodynamic device or equipment, if available ... or, if not available:
    - 9.27.3. Detailed description (including photographs or drawings) of the aerodynamic device or equipment
      - 9.27.3.1. Construction and materials: ...
      - 9.27.3.2. Locking and adjustment system: ...
      - 9.27.3.3. Attachment and mounting to the vehicle: ...

*Explanatory notes*

- <sup>(b)</sup> If the means of identification of type contains characters not relevant to describe the separate technical unit type covered by this information document, such characters shall be represented in the documentation by the symbol ‘?’ (e.g. ABC??123??).
- <sup>(1)</sup> Delete where not applicable.

**Changes to legislation:** There are outstanding changes not yet made to Commission Regulation (EU) No 1230/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) View outstanding changes

## PART D

### EC type-approval certificate for an aerodynamic device or equipment as a separate technical unit

#### MODEL

Format: A4 (210 × 297 mm)

#### EC TYPE-APPROVAL CERTIFICATE

Stamp of type-approval authority

Communication concerning:

<ul style="list-style-type: none"><li>- EC type-approval <sup>(1)</sup></li><li>- extension of EC type-approval <sup>(1)</sup></li><li>- refusal of EC type-approval <sup>(1)</sup></li><li>- withdrawal of EC type-approval <sup>(1)</sup></li></ul>	}	of a type of aerodynamic device or equipment as a separate technical unit
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with regard to Regulation (EU) No 1230/2012, as last amended by Regulation (EU) 2019/1892<sup>(32)</sup>

EC type-approval number: ...

Reason for extension: ...

#### SECTION I

- 0.1. Make (trade name of manufacturer): ...
- 0.2. Type: ...
- 0.3. Means of identification of type, if marked on the separate technical unit<sup>(33)</sup>: ...
  - 0.3.1. Location of that marking: ...
- 0.5. Name and address of manufacturer: ...
- 0.7. Location and method of affixing of the EC type-approval mark: ...
- 0.8. Name(s) and address(es) of assembly plant(s): ...
- 0.9. Name and address of the manufacturer's representative (if any): ...

#### SECTION II

1. Additional information: see Addendum.

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2. Technical service responsible for carrying out the tests: ...
3. Date of test report: ...
4. Number of test report: ...
5. Remarks (if any): see Addendum.
6. Place: ...
7. Date: ...
8. Signature: ...

Attachments: Information package

Test report

Addendum to **EC type-approval certificate No ...**

1. Brief description of the type of separate technical unit: ...
2. Detailed description of the aerodynamic device or equipment:
  - 2.1. Number of separate elements: ...
  - 2.2. Description of construction and materials: ...
  - 2.3. Description of locking and adjustment system: ...
  - 2.4. Description of attachment and mounting to the vehicle: ...
  - 2.5. Separate technical unit: semi-universal/vehicle specific (<sup>1</sup>)
3. List of specific vehicle types for which the separate technical unit has been approved (if applicable): ...
4. Detailed description of the specific mounting area specifications on vehicles in case of semi-universal aerodynamic devices or equipment (if applicable): ...
5. Remarks: ...
6. Type-approval mark and its location: ...

## PART E

### EC separate technical unit type-approval mark

1. The EC separate technical unit type-approval mark shall consist of:
  - 1.1. A rectangle surrounding the lower-case letter 'e' followed by the distinguishing number of the Member State which has granted the EC separate technical unit type-approval:

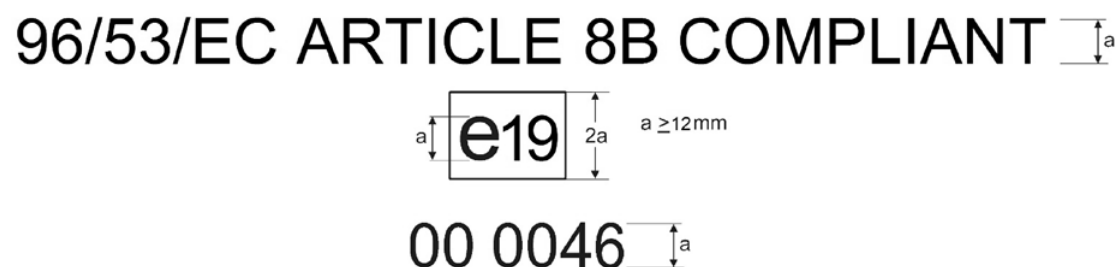
1	for Germany	19	for Romania
2	for France	20	for Poland
3	for Italy	21	for Portugal

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4	for The Netherlands	23	for Greece
5	for Sweden	24	for Ireland
6	for Belgium	25	for Croatia
7	for Hungary	26	for Slovenia
8	for the Czech Republic	27	for Slovakia
9	for Spain	29	for Estonia
11	for the United Kingdom	32	for Latvia
12	for Austria	34	for Bulgaria
13	for Luxembourg	36	for Lithuania
17	for Finland	49	for Cyprus
18	for Denmark	50	for Malta

- 1.2. In the vicinity of the rectangle the ‘base approval number’ contained in Section 4 of the type-approval number preceded by the two figures indicating the sequence number assigned to this Regulation or latest major technical amendment to this Regulation. The sequence number is ‘00’ at present.
- 1.3. In case of an aerodynamic device or equipment of cabs, the sequence number shall be preceded by the symbol ‘96/53/EC ARTICLE 9A COMPLIANT’.
- 1.4. In case of an aerodynamic device or equipment to be located on the rear of a vehicle, the sequence number shall be preceded by the symbol ‘96/53/EC ARTICLE 8B COMPLIANT’.
2. The EC separate technical unit type-approval mark shall be affixed to a main part of the aerodynamic device or equipment in such a way as to be indelible as well as clearly and easily legible even if the device is fitted to a vehicle.
3. An example of an EC separate technical unit type-approval mark is shown in Figure 1.

*Figure 1* Example of EC separate technical unit type-approval mark



*Explanatory note*

The EC separate technical unit type-approval of an aerodynamic device or equipment to be installed at the rear of a vehicle (for the purpose of compliance with Article 8b of Directive

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96/53/EC) was issued by Romania under number 0046. The first two digits '00' indicate that the separate technical unit was approved in accordance with this Regulation.]



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- (1) Classified according to the definitions set out in Part A of Annex II.
- (2) ‘Forward control’ as defined in point 2.7 of Annex I to Council Directive 74/297/EEC.
- (3) Where there is one version with a normal cab and another with a sleeper cab, both sets of masses and dimensions are to be stated
- (4) Standard ISO 612: 1978 – Road vehicles – Dimensions of motor vehicles and towed vehicles – terms and definitions.
- (5) Optional equipment that affects the dimensions of the vehicle shall be specified.
- (6) <sup>(g<sup>1</sup>)</sup> term No 6.4.
- (7) <sup>(g<sup>2</sup>)</sup> term No 6.19.2.
- (8) <sup>(g<sup>4</sup>)</sup> term No 6.5.
- (9) <sup>(g<sup>5</sup>)</sup> term No 6.1 and for vehicles other than those of category M1. In the case of trailers, the lengths shall be specified as mentioned in term No 6.1.2 of Standard ISO 612: 1978.
- (10) <sup>(g<sup>6</sup>)</sup> term No 6.17.
- (11) <sup>(g<sup>7</sup>)</sup> term No 6.2 and for vehicles other than those of category M1.
- (12) <sup>(g<sup>8</sup>)</sup> term No 6.3 and for vehicles other than those of category M1.
- (13) <sup>(g<sup>9</sup>)</sup> term No 6.6.
- (14) <sup>(g<sup>10</sup>)</sup> term No 6.10.
- (15) Only for the purpose of definition of off-road vehicles.
- (16) <sup>(g<sup>11</sup>)</sup> term No 6.7.
- (17) <sup>(g<sup>12</sup>)</sup> term No 6.11.
- (18) <sup>(g<sup>13</sup>)</sup> term No 6.18.1.
- (19) The mass of the driver is assessed at 75 kg.  
The liquid containing systems (except those for used water that must remain empty) are filled to 100 % of the capacity specified by the manufacturer.  
The information referred to in points 2.6(a) and 2.6.1(a) do not need to be provided for vehicle categories N<sub>2</sub>, N<sub>3</sub>, M<sub>2</sub>, M<sub>3</sub>, O<sub>3</sub>, and O<sub>4</sub>.
- (20) For trailers or semi-trailers, and for vehicles coupled with a trailer or a semi-trailer, which exert a significant vertical load on the coupling device or the fifth wheel, this load, divided by standard acceleration of gravity, is included in the maximum technically permissible mass.
- (21) ‘Coupling overhang’ is the horizontal distance between the coupling for centre-axle trailers and the centreline of the rear axle(s).
- (22) Set out in such a way as to make the actual value clear for each technical configuration of the vehicle type.
- (23) In the case of a vehicle that can run either on petrol, diesel, etc., or also in combination with another fuel, items shall be repeated.  
In the case of non-conventional engines and systems, particulars equivalent to those referred to here shall be supplied by the manufacturer.

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- (24) Determined in accordance with the requirements of Council Directive 80/1269/EEC.
- (25) Delete where not applicable (there are cases where nothing needs to be deleted when more than one entry is applicable).
- (26) The specified particulars are to be given for any proposed variants.
- (27) For tyres of category Z intended to be fitted on vehicles whose maximum speed exceeds 300 km/h equivalent information shall be provided.
- (28) The number of seating positions to be mentioned shall be the one when the vehicle is in motion. A range can be specified in case of modular arrangement.
- (29) ‘R-point’ or ‘seating reference point’ means a design point defined by the vehicle manufacturer for each seating position and established with respect to the three-dimensional reference system as specified in Annex III to Directive 77/649/EEC.
- (30) [OJ L 375, 31.12.1980, p. 36.](#)
- (31) [<sup>F1</sup>Delete where not applicable.]
- (32) [<sup>F2</sup>Delete where not applicable.]
- (33) [<sup>F2</sup>If the means of identification of type contains characters not relevant to describe the separate technical unit type covered by this information document, such characters shall be represented in the documentation by the symbol ‘?’ (e.g. ABC??123??).]

#### Textual Amendments

- F1** Substituted by [Commission Regulation \(EU\) 2019/1892 of 31 October 2019 amending Regulation \(EU\) No 1230/2012 as regards type-approval requirements for certain motor vehicles fitted with elongated cabs and for aerodynamic devices and equipment for motor vehicles and their trailers \(Text with EEA relevance\).](#)
- F2** Inserted by [Commission Regulation \(EU\) 2019/1892 of 31 October 2019 amending Regulation \(EU\) No 1230/2012 as regards type-approval requirements for certain motor vehicles fitted with elongated cabs and for aerodynamic devices and equipment for motor vehicles and their trailers \(Text with EEA relevance\).](#)

**Changes to legislation:**

There are outstanding changes not yet made to Commission Regulation (EU) No 1230/2012. Any changes that have already been made to the legislation appear in the content and are referenced with annotations.

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**Changes and effects yet to be applied to :**

- Annex 5 Pt. A point 2.11.3.1 Annex 5 Pt. A point 2.11.4.1 renumbered as Annex 5 Pt. A point 2.11.3.1 by S.I. 2022/1273 reg. 72(4)(b)(v)
- Annex 5 Pt. A point 2.11.3.2 Annex 5 Pt. A point 2.11.4.2 renumbered as Annex 5 Pt. A point 2.11.3.2 by S.I. 2022/1273 reg. 72(4)(b)(vi)
- Annex 5 Pt. B Addendum point 1.1.1 inserted by S.I. 2022/1273 reg. 72(4)(c)(v)(dd)
- Annex 5 Pt. B Addendum point 1.2 substituted by S.I. 2022/1273 reg. 72(4)(c)(v)(ee)
- Annex 5 Pt. B Addendum point 1.3 substituted by S.I. 2022/1273 reg. 72(4)(c)(v)(ee)
- Annex 5 Pt. E point 1.1 substituted by S.I. 2022/1273 reg. 72(4)(f)(iii)
- Annex 5 Pt. E image substituted by S.I. 2022/1273 reg. 72(4)(f)(vii)
- Annex 5 Pt. A heading word substituted by S.I. 2022/1273 reg. 72(4)(a)
- Annex 5 Pt. B Addendum point 1.1 words inserted by S.I. 2022/1273 reg. 72(4)(c)(v)(cc)
- Annex 5 Pt. E heading words inserted by S.I. 2022/1273 reg. 72(4)(f)(ii)
- Annex 5 Pt. E point 1.3 words inserted by S.I. 2022/1273 reg. 72(4)(f)(iv)
- Annex 5 Pt. E point 1.4 words inserted by S.I. 2022/1273 reg. 72(4)(f)(v)
- Annex 5 Pt. E words omitted by S.I. 2022/1273 reg. 72(4)(f)(viii)(aa)
- Annex 5 Pt. E words omitted by S.I. 2022/1273 reg. 72(4)(f)(viii)(bb)
- Annex 5 Pt. A words substituted by S.I. 2022/1273 reg. 72(4)(b)(i)
- Annex 5 Pt. A point 2.4.2.1.3 words substituted by S.I. 2022/1273 reg. 72(4)(b)(ii)
- Annex 5 Pt. A point 2.4.2.6 words substituted by S.I. 2022/1273 reg. 72(4)(b)(iii)
- Annex 5 Pt. A point 2.6.4 words substituted by S.I. 2022/1273 reg. 72(4)(b)(iv)
- Annex 5 Pt. A words substituted by S.I. 2022/1273 reg. 72(4)(b)(ix)(aa)
- Annex 5 Pt. A words substituted by S.I. 2022/1273 reg. 72(4)(b)(ix)(bb)
- Annex 5 Pt. A words substituted by S.I. 2022/1273 reg. 72(4)(b)(ix)(cc)
- Annex 5 Pt. A words substituted by S.I. 2022/1273 reg. 72(4)(b)(ix)(dd)
- Annex 5 Pt. A words substituted by S.I. 2022/1273 reg. 72(4)(b)(ix)(ee)
- Annex 5 Pt. A point 9.1 words substituted by S.I. 2022/1273 reg. 72(4)(b)(vii)
- Annex 5 Pt. A point 9.25 words substituted by S.I. 2022/1273 reg. 72(4)(b)(viii)
- Annex 5 Pt. B heading words substituted by S.I. 2022/1273 reg. 72(4)(c)(i)
- Annex 5 Pt. B words substituted by S.I. 2022/1273 reg. 72(4)(c)(i)
- Annex 5 Pt. B words substituted by S.I. 2022/1273 reg. 72(4)(c)(ii)
- Annex 5 Pt. B Addendum heading words substituted by S.I. 2022/1273 reg. 72(4)(c)(v)(aa)
- Annex 5 Pt. B Addendum point 1 words substituted by S.I. 2022/1273 reg. 72(4)(c)(v)(bb)
- Annex 5 Pt. B Addendum point 1.4 words substituted by S.I. 2022/1273 reg. 72(4)(c)(v)(ff)
- Annex 5 Pt. B Addendum point 1.4.1 words substituted by S.I. 2022/1273 reg. 72(4)(c)(v)(gg)
- Annex 5 Pt. B Addendum point 1.4.2 words substituted by S.I. 2022/1273 reg. 72(4)(c)(v)(gg)
- Annex 5 Pt. C heading words substituted by S.I. 2022/1273 reg. 72(4)(d)
- Annex 5 Pt. C words substituted by S.I. 2022/1273 reg. 72(4)(d)
- Annex 5 Pt. D heading words substituted by S.I. 2022/1273 reg. 72(4)(e)(i)
- Annex 5 Pt. D words substituted by S.I. 2022/1273 reg. 72(4)(e)(i)
- Annex 5 Pt. D words substituted by S.I. 2022/1273 reg. 72(4)(e)(ii)
- Annex 5 Pt. E heading words substituted by S.I. 2022/1273 reg. 72(4)(f)(i)
- Annex 5 Pt. E words substituted by S.I. 2022/1273 reg. 72(4)(f)(i)

- Annex 5 Pt. E point 3 words substituted by [S.I. 2022/1273 reg. 72\(4\)\(f\)\(vi\)](#)

**Changes and effects yet to be applied to the whole legislation item and associated provisions**

- Signature words omitted by [S.I. 2022/1273 reg. 71\(10\)](#)
- Annex 5 Pt. B s. 1 words substituted by [S.I. 2022/1273 reg. 72\(4\)\(c\)\(iii\)](#)
- Annex 5 Pt. B s. 2 words substituted by [S.I. 2022/1273 reg. 72\(4\)\(c\)\(iv\)](#)
- Annex 5 Pt. D s. 1 words substituted by [S.I. 2022/1273 reg. 72\(4\)\(e\)\(iii\)](#)
- Annex 1 Appendix 2 point 2.1 words substituted by [S.I. 2022/1273 reg. 72\(2\)\(e\)\(i\)](#)
- Annex 1 Appendix 2 point 2.2 words substituted by [S.I. 2022/1273 reg. 72\(2\)\(e\)\(ii\)\(aa\)](#)
- Annex 1 Appendix 2 point 2.2(c) words substituted by [S.I. 2022/1273 reg. 72\(2\)\(e\)\(ii\)\(bb\)](#)
- Annex 1 Appendix 4 point 1.3 words substituted by [S.I. 2022/1273 reg. 72\(2\)\(f\)](#)
- Art. 2(1) words substituted by [S.I. 2022/1273 reg. 71\(3\)\(b\)](#)
- Art. 2(2) words substituted by [S.I. 2022/1273 reg. 71\(3\)\(c\)](#)
- Art. 2(11) words substituted by [S.I. 2022/1273 reg. 71\(3\)\(d\)](#)
- Art. 2(40) words substituted by [S.I. 2022/1273 reg. 71\(3\)\(e\)](#)
- Art. 6(1)(1a) substituted for Art. 6(1) by [S.I. 2022/1273 reg. 71\(8\)\(a\)](#)