

[<sup>F1</sup>ANNEX I[<sup>F1</sup>COMPLETE LIST OF INFORMATION FOR THE PURPOSE OF EC TYPE-APPROVAL OF VEHICLES, COMPONENTS OR SEPARATE TECHNICAL UNITS]<sup>(1)</sup>**Textual Amendments**

- F1** Substituted by [Commission Regulation \(EC\) No 1060/2008 of 7 October 2008 replacing Annexes I, III, IV, VI, VII, XI and XV to Directive 2007/46/EC of the European Parliament and of the Council establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles \(Framework Directive\) \(Text with EEA relevance\).](#)
- F1** Substituted by [Commission Regulation \(EU\) 2015/166 of 3 February 2015 supplementing and amending Regulation \(EC\) No 661/2009 of the European Parliament and of the Council as regards the inclusion of specific procedures, assessment methods and technical requirements, and amending Directive 2007/46/EC of the European Parliament and of the Council, and Commission Regulations \(EU\) No 1003/2010, \(EU\) No 109/2011 and \(EU\) No 458/2011 \(Text with EEA relevance\).](#)

[<sup>F2</sup>2. MASSES AND DIMENSIONS<sup>(3)(4)(5)</sup>

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

- 2.1. Wheelbase(s) (fully loaded) <sup>(6)</sup>:
- 2.1.1. Two-axle vehicles: ...
- [<sup>F2</sup>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 kingpin and any point on the front of the semi-trailer: ...
- 2.2.1.3. Semi-trailer special wheelbase (as defined in Section 7.6.1.2 of Annex I to Directive 97/27/EC): ...
- 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>: ...
- 2.2.2.2. Maximum height of the fifth wheel (standardised)<sup>(8)</sup>: ...
- 2.3. Axle track(s) and width(s)
- 2.3.1. Track of each steered axle<sup>(9)</sup>: ...

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- 2.3.2. Track of all other axles<sup>(9)</sup>: ...
- 2.3.3. Width of the widest rear axle: ...
- 2.3.4. Width of the foremost axle (measured at the outermost part of the tyres excluding the bulging of the tyres close to the ground): ...
- 2.4. Range of vehicle dimensions (overall)
  - 2.4.1. For chassis without bodywork
    - 2.4.1.1. Length<sup>(10)</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>(11)</sup>: ...
    - 2.4.1.2. Width<sup>(12)</sup>: ...
      - 2.4.1.2.1. Maximum permissible width: ...
      - 2.4.1.2.2. Minimum permissible width: ...
    - 2.4.1.3. Height (in running order)<sup>(13)</sup> (for suspensions adjustable for height, indicate normal running position): ...
    - 2.4.1.4. Front overhang<sup>(14)</sup>: ...
      - 2.4.1.4.1. Approach angle<sup>(15)</sup>: ..... degrees.
    - 2.4.1.5. Rear overhang<sup>(16)</sup>: ...
      - 2.4.1.5.1. Departure angle<sup>(17)</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 point 4.5 of Section A of Annex II)
      - 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): ...
    - 2.4.1.7. Ramp angle<sup>(19)</sup>: ..... degrees.
    - 2.4.1.8. Extreme permissible positions of the centre of gravity of the body and/or interior fittings and/or equipment and/or payload: ...
  - 2.4.2. For chassis with bodywork
    - 2.4.2.1. Length<sup>(10)</sup>: ...
      - 2.4.2.1.1. Length of the loading area: ...
      - 2.4.2.1.2. In the case of trailers, maximum permissible drawbar length<sup>(11)</sup>: ...

- 2.4.2.2. Width<sup>(12)</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 (in running order)<sup>(13)</sup> (for suspensions adjustable for height, indicate normal running position): ...
- 2.4.2.4. Front overhang<sup>(14)</sup>: ...
- 2.4.2.4.1. Approach angle<sup>(15)</sup>: ..... degrees.
- 2.4.2.5. Rear overhang<sup>(16)</sup>: ...
- 2.4.2.5.1. Departure angle<sup>(17)</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 point 4.5 of Section A of Annex II)
- 2.4.2.6.1. Between the axles: ...
- 2.4.2.6.2. Under the front axle(s): ...
- 2.4.2.6.3. Under the rear axle(s): ...
- 2.4.2.7. Ramp angle<sup>(19)</sup>: ..... degrees.
- 2.4.2.8. Extreme permissible positions of the centre of gravity of the payload (in the case of non-uniform load): ...
- 2.4.2.9. Position of centre of gravity of the vehicle (M<sub>2</sub> and M<sub>3</sub>) at its technically permissible maximum laden mass in the longitudinal, transverse and vertical directions: ...
- 2.4.3. For bodywork approved without chassis (vehicles M<sub>2</sub> and M<sub>3</sub>)
- 2.4.3.1. Length<sup>(10)</sup>: ...
- 2.4.3.2. Width<sup>(12)</sup>: ...
- 2.4.3.3. Nominal height (in running order)<sup>(13)</sup> on intended chassis type(s) (for suspensions adjustable for height, indicate normal running position): ...
- [<sup>F2</sup>2.5. **Minimum mass on the steering axle(s) for incomplete vehicles:**  
...]
- [<sup>F2</sup>2.6. **Mass in running order<sup>(20)</sup>**
- (a) minimum and maximum for each variant: ...
- (b) mass of each version (a matrix must be provided): ...
- [<sup>F3</sup>2.6.1. Distribution of this mass among the axles and, in the case of a semi-trailer, a rigid drawbar trailer or a centre-axle trailer, the mass on the coupling:
- (a) minimum and maximum for each variant: ...
- (b) mass of each version (a matrix must be provided): ...]]

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#### Textual Amendments

- F3** Substituted by Commission Regulation (EU) 2017/1151 of 1 June 2017 supplementing Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information, amending Directive 2007/46/EC of the European Parliament and of the Council, Commission Regulation (EC) No 692/2008 and Commission Regulation (EU) No 1230/2012 and repealing Commission Regulation (EC) No 692/2008 (Text with EEA relevance).

[<sup>F4</sup>2.6.2. Mass of the optional equipment (see the definition set out in point (5) of Article 2 of Commission Regulation (EU) No 1230/2012<sup>(21)</sup>): ...]

#### Textual Amendments

- F4** Inserted by 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).

[<sup>F5</sup>2.6.3. Rotational mass (<sup>y</sup>): 3 % of the sum of mass in running order and 25 kg or value, per axle (kg): ...]

#### Textual Amendments

- F5** Inserted by Commission Regulation (EU) 2018/1832 of 5 November 2018 amending Directive 2007/46/EC of the European Parliament and of the Council, Commission Regulation (EC) No 692/2008 and Commission Regulation (EU) 2017/1151 for the purpose of improving the emission type approval tests and procedures for light passenger and commercial vehicles, including those for in-service conformity and real-driving emissions and introducing devices for monitoring the consumption of fuel and electric energy (Text with EEA relevance).

2.7. **Minimum mass of the completed vehicle** as stated by the manufacturer, in the case of an incomplete vehicle: ...

2.7.1. Distribution of this mass among the axles and, in the case of a semi-trailer or centre-axle trailer, load on the coupling point: ...

2.8. **Technically permissible maximum laden mass** stated by the manufacturer<sup>(22)(23)</sup>: ...

2.8.1. Distribution of this mass among the axles and, in the case of a semi-trailer or centre-axle trailer, load on the coupling point<sup>(23)</sup>: ...

2.9. **Technically permissible maximum mass on each axle**: ...

[<sup>F2</sup>2.10. **Technically permissible mass on each group of axles**: ...]

[<sup>F2</sup>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: ...
- 2.11.3.1. Maximum ratio of the coupling overhang<sup>(24)</sup> to the wheel base: ...
- 2.11.3.2. Maximum V-value: ..... kN.
- [<sup>F2</sup>2.11.4. Rigid drawbar trailer: ...]
- [<sup>F2</sup>2.11.5. Technically permissible maximum laden mass of the combination<sup>(23)</sup>: ...]
- 2.11.6. Maximum mass of unbraked trailer: ...
- [<sup>F2</sup>2.12. Technically permissible maximum mass at the coupling point:
- 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):  
...
- 2.13. **Rear swing-out** (Section 7.6.2. and 7.6.3. of Annex I to Directive 97/27/EC): ...
- 2.14. **Engine power/maximum mass ratio**: ..... kW/kg.
- 2.14.1. Engine power/technically permissible maximum laden mass of the combination ratio (Section 7.10 of Annex I to Directive 97/27/EC): ..... kW/kg.
- 2.15. **Hill-starting ability** (solo vehicle)<sup>(25)</sup>: ..... %.
- [<sup>F2</sup>2.16. Registration/in service maximum permissible masses (optional)
- 2.16.1. Registration/in service maximum permissible laden mass: ...
- 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: ...
- 2.16.3. Registration/in service maximum permissible mass on each group of axles: ...
- 2.16.4. Registration/in service maximum permissible towable mass: ...
- 2.16.5. Registration/in service maximum permissible mass of the combination: ...]
- [<sup>F6</sup>2.17. Vehicle submitted to multi-stage type-approval (only in the case of incomplete or completed vehicles of category N<sub>1</sub> within the scope of Regulation (EC) No 715/2007: yes/no<sup>(2)</sup>
- 2.17.1. Mass of the base vehicle in running order: ... kg.
- 2.17.2. Default added mass, calculated in accordance with Section 5 of Annex XII to Regulation (EC) No 692/2008: ... kg.]]

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#### Textual Amendments

- F6** Inserted by [Commission Regulation \(EU\) No 143/2013 of 19 February 2013 amending Directive 2007/46/EC of the European Parliament and of the Council and Commission Regulation \(EC\) No](#)

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692/2008 as regards the determination of CO<sub>2</sub> emissions from vehicles submitted to multi-stage type-approval (Text with EEA relevance).

#### **Textual Amendments**

- F2** Substituted by 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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- (1) [<sup>F1</sup>]<sup>F1</sup>If a part has been type-approved, that part need not be described if reference is made to such approval. Similarly, a part need not be described if its construction is clearly apparent from the attached diagrams or drawings. For each item for which drawings or photographs shall be attached, give numbers of the corresponding attached documents.]
- (2) Delete where not applicable (there are cases where nothing needs to be deleted when more than one entry is applicable).
- (3) [<sup>F2</sup>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>g1</sup>) Motor vehicle and drawbar trailer: term No 6.4.1.  
Semi-trailer and centre-axle trailer: term No 6.4.2.  
*Note:*  
In the case of a centre-axle trailer, the axis of the coupling shall be considered as the foremost axle.
- (7) (<sup>g2</sup>) Term No 6.19.2.
- (8) (<sup>g3</sup>) Term No 6.20.
- (9) (<sup>g4</sup>) Term No 6.5.
- (10) (<sup>g5</sup>) Term No 6.1 and for vehicles other than those of category M1: point 2.4.1 of Annex I to Directive 97/27/EC of the European Parliament and of the Council (OJ L 233, 25.8.1997, p. 1).  
In the case of trailers, the lengths shall be specified as mentioned in term No 6.1.2 of Standard ISO 612: 1978.
- (11) (<sup>g6</sup>) Term No 6.17.
- (12) (<sup>g7</sup>) Term No 6.2 and for vehicles other than those of category M1: point 2.4.2 of Annex I to Directive 97/27/EC.
- (13) (<sup>g8</sup>) Term No 6.3 and for vehicles other than those of category M1: point 2.4.3 of Annex I to Directive 97/27/EC.
- (14) (<sup>g9</sup>) Term No 6.6.
- (15) (<sup>g10</sup>) Term No 6.10.
- (16) (<sup>g11</sup>) Term No 6.7.
- (17) (<sup>g12</sup>) Term No 6.11.
- (18) (<sup>g13</sup>) Term No 6.18.1.
- (19) (<sup>g14</sup>) Term No 6.9.
- (20) [<sup>F2</sup>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.

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The information referred to in points 2.6(b) and 2.6.1(b) 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>.]

- (21) [<sup>F4</sup>OJ L 353, 21.12.2012, p. 31.]
- (22) 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.
- (23) Please fill in here the upper and lower values for each variant.
- (24) ‘Coupling overhang’ is the horizontal distance between the coupling for centre-axle trailers and the centreline of the rear axle(s).
- (25) Only for the purpose of definition of off-road vehicles.]

#### **Textual Amendments**

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- F2** Substituted by 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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