

Directive 2007/46/EC of the European Parliament and of the Council of 5 September 2007 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components and separate technical units intended for such vehicles (Framework Directive) (Text with EEA relevance) (repealed)

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## ANNEX I

### Complete list of information for the purpose of EC type-approval of vehicles

0. GENERAL
  - 0.1. Make (trade name of manufacturer):
  - 0.2. Type:
    - 0.2.0.1. Chassis:
    - 0.2.0.2. Bodywork/complete vehicle:
    - 0.2.1. Commercial name(s) (if available):
  - 0.3. Means of identification of type, if marked on the vehicle/component/separate...
    - 0.3.0.1. Chassis:
    - 0.3.0.2. Bodywork/complete vehicle:
    - 0.3.1. Location of that marking:
      - 0.3.1.1. Chassis:
      - 0.3.1.2. Bodywork/complete vehicle:
  - 0.4. Category of vehicle (c):
    - 0.4.1. Classification(s) according to the dangerous goods which the vehicle is...
  - 0.5. Name and address of manufacturer:
  - 0.6. Location and method of attachment of statutory plates and location...
    - 0.6.1. On the chassis:
    - 0.6.2. On the bodywork:
  - 0.7. In the case of components and separate technical units, location...
  - 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 double 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):
  - 1.5. Material used for the side-members (d):
  - 1.6. Position and arrangement of the engine:
  - 1.7. Driving cab (forward control or bonneted) (z):
  - 1.8. Hand of drive: left/right (1).
    - 1.8.1. Vehicle is equipped to be driven in right/left (1) hand...
  - 1.9. Specify if the motor vehicle is intended to tow semi-trailers...
2. MASSES AND DIMENSIONS (e) (in kg and mm) (Refer to drawing...)
  - 2.1. Wheel base(s) (fully loaded) (f):
    - 2.1.1. In the case of semi-trailers
      - 2.1.1.1. Distance between the axis of the fifth wheel kingpin and...
      - 2.1.1.2. Maximum distance between the axis of the fifth wheel kingpin...

- 2.1.1.3. Semi-trailer special wheelbase (as defined in Section 7.6.1.2 of Annex I to...
- 2.2. In the case of semi-trailer towing vehicles
  - 2.2.1. Fifth wheel lead (maximum and minimum; indicate the permissible values...
  - 2.2.2. Maximum height of the fifth wheel (standardised) (h):
- 2.3. Axle track(s) and width(s):
  - 2.3.1. Track of each steered axle (i):
  - 2.3.2. Track of all other axles (i):
  - 2.3.3. Width of the widest rear axle:
  - 2.3.4. Width of the foremost axle (measured at the outermost part...
- 2.4. Range of vehicle dimensions (overall)
  - 2.4.1. For chassis without bodywork
    - 2.4.1.1. Length (j):
      - 2.4.1.1.1. Maximum permissible length:
      - 2.4.1.1.2. Minimum permissible length:
    - 2.4.1.2. Width (k):
      - 2.4.1.2.1. Maximum permissible width:
      - 2.4.1.2.2. Minimum permissible width:
    - 2.4.1.3. Height (in running order) (l) (for suspensions adjustable for height,...
    - 2.4.1.4. Front overhang (m):
      - 2.4.1.4.1. Approach angle (na): ... degrees.
    - 2.4.1.5. Rear overhang (n):
      - 2.4.1.5.1. Departure angle (nb): ... degrees.
      - 2.4.1.5.2. Minimum and maximum permissible overhang of the coupling point (nd):...
    - 2.4.1.6. Ground clearance (as defined in point 4,5 of Section A of...
      - 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 (nc): ... degrees.
    - 2.4.1.8. Extreme permissible positions of the centre of gravity of the...
  - 2.4.2. For chassis with bodywork
    - 2.4.2.1. Length (j):
      - 2.4.2.1.1. Length of the loading area:
    - 2.4.2.2. Width (k):
      - 2.4.2.2.1. Thickness of the walls (in the case of vehicles designed...
    - 2.4.2.3. Height (in running order) (l) (for suspensions adjustable for height,...
    - 2.4.2.4. Front overhang (m):
      - 2.4.2.4.1. Approach angle (na): ... degrees.
    - 2.4.2.5. Rear overhang (n):
      - 2.4.2.5.1. Departure angle (nb): ... degrees.
      - 2.4.2.5.2. Minimum and maximum permissible overhang of the coupling point (nd):...
    - 2.4.2.6. Ground clearance (as defined in point 4,5 of Section A of...
      - 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 (nc): ... degrees.
    - 2.4.2.8. Extreme permissible positions of the centre of gravity of the...

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- 2.4.2.9. Position of centre of gravity of the vehicle (M2 and...
  - 2.4.3. For bodywork approved without chassis (vehicles M2 and M3)
    - 2.4.3.1. Length (j):
    - 2.4.3.2. Width (k):
    - 2.4.3.3. Nominal height (in running order) (l) on intended chassis type(s)...
  - 2.5. Mass of the bare chassis (without cab, coolant, oils, fuel,...
  - 2.5.1. Distribution of this mass among the axles:
  - 2.6. Mass of the vehicle with bodywork and, in the case...
  - 2.6.1. Distribution of this mass among the axles and, in the...
  - 2.7. Minimum mass of the completed vehicle as stated by the...
  - 2.7.1. Distribution of this mass among the axles and, in the...
  - 2.8. Technically permissible maximum laden mass stated by the manufacturer (y)...
  - 2.8.1. Distribution of this mass among the axles and, in the...
  - 2.9. Technically permissible maximum mass on each axle:
  - 2.10. Technically permissible maximum mass on each axle group:
  - 2.11. Technically permissible maximum towable mass of the motor vehicle in...
    - 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 (p) to the wheel...
      - 2.11.3.2 Maximum V-value: ... kN.
    - 2.11.4. Technically permissible maximum mass of the combination (\*):
    - 2.11.5. Vehicle is/is not (1) suitable for towing loads (item 1.2 of...
    - 2.11.6. Maximum mass of unbraked trailer:
  - 2.12. Technically permissible maximum static vertical load/mass on the vehicle's coupling...
    - 2.12.1. Of the motor vehicle:
    - 2.12.2. Of the semi-trailer or centre-axle trailer:
    - 2.12.3. Maximum permissible mass of the coupling device (if not fitted...
  - 2.13. Swept path:
  - 2.14. Engine power/maximum mass ratio: ... kW/kg.
    - 2.14.1. Engine power/technically permissible maximum laden mass of the combination ratio...
  - 2.15. Hill-starting ability (solo vehicle) (+++): ... %.
  - 2.16. Intended registration/in service maximum permissible masses (optional: where these values...
    - 2.16.1. Intended registration/in service maximum permissible laden mass (several entries possible...
    - 2.16.2. Intended registration/in service maximum permissible mass on each axle and,...
    - 2.16.3. Intended registration/in service maximum permissible mass on each axle group...
    - 2.16.4. Intended registration/in service maximum permissible towable mass (several entries possible...
    - 2.16.5. Intended registration/in service maximum permissible mass of the combination (several...
  - 3. POWER PLANT (q) (In the case of a vehicle that...
    - 3.1. Manufacturer:
      - 3.1.1. Manufacturer's engine code as marked on the engine:
    - 3.2. Internal combustion engine
      - 3.2.1. Specific engine information

- 3.2.1.1. Working principle: positive ignition/compression ignition, four stroke/two stroke (1)
- 3.2.1.2. Number and arrangement of cylinders:
  - 3.2.1.2.1. Bore (r): ... mm
  - 3.2.1.2.2. Stroke (r): ... mm
  - 3.2.1.2.3. Firing order:
- 3.2.1.3. Engine capacity (s): ... cm<sup>3</sup>
- 3.2.1.4. Volumetric compression ratio (2):
- 3.2.1.5. Drawings of combustion chamber, piston crown and, in the case...
- 3.2.1.6. Normal engine idling speed (2): ... min<sup>-1</sup>
  - 3.2.1.6.1. High engine idling speed (2): ... min<sup>-1</sup>
- 3.2.1.7. Carbon monoxide content by volume in the exhaust gas with...
- 3.2.1.8. Maximum net power (t): ... kW at ... min<sup>-1</sup> (manufacturer's...
- 3.2.1.9. Maximum permitted engine speed as prescribed by the manufacturer: .....
- 3.2.1.10. Maximum net torque (t): ... Nm at ... min<sup>-1</sup> (manufacturer's...
- 3.2.2. Fuel: Diesel oil/Petrol/LPG/NG/Ethanol (1) ...
  - 3.2.2.1. RON, leaded:
  - 3.2.2.2. RON, unleaded:
  - 3.2.2.3. Fuel tank inlet: restricted orifice/label (1)
- 3.2.3. Fuel tank(s)
  - 3.2.3.1. Service fuel tank(s)
    - 3.2.3.1.1. Number, capacity, material:
    - 3.2.3.1.2. Drawing and technical description of the tank(s) with all connections...
    - 3.2.3.1.3. Drawing clearly showing the position of the tank(s) in the...
  - 3.2.3.2. Reserve fuel tank(s)
    - 3.2.3.2.1. Number, capacity, material:
    - 3.2.3.2.2. Drawing and technical description of the tank(s) with all connections...
    - 3.2.3.2.3. Drawing clearly showing the position of the tank(s) in the...
- 3.2.4. Fuel feed
  - 3.2.4.1. By carburettor(s): yes/no (1)
    - 3.2.4.1.1. Make(s):
    - 3.2.4.1.2. Type(s):
    - 3.2.4.1.3. Number fitted:
    - 3.2.4.1.4. Adjustments (2)
    - 3.2.4.1.5. Cold start system: manual/automatic (1)
      - 3.2.4.1.5.1. Operating principle(s):
      - 3.2.4.1.5.2. Operating limits/settings (1) (2)
  - 3.2.4.2. By fuel injection (compression ignition only): yes/no (1)
    - 3.2.4.2.1. System description:
    - 3.2.4.2.2. Working principle: direct injection/pre-chamber/swirl chamber (1)
    - 3.2.4.2.3. Injection pump
      - 3.2.4.2.3.1. Make(s):
      - 3.2.4.2.3.2. Type(s):
      - 3.2.4.2.3.3. Maximum fuel delivery (1) (2): ... mm<sup>3</sup>/stroke or cycle at...
      - 3.2.4.2.3.4. Injection timing (2):

- 3.2.4.2.3 Injection advance curve (2):
- 3.2.4.2.3 Calibration procedure: test bench/engine (1)
- 3.2.4.2.4 Governor
  - 3.2.4.2.4 Type:
  - 3.2.4.2.4 Cut-off point
    - 3.2.4.2.4 Cut-off point under load: ... min-1
    - 3.2.4.2.4 Cut-off point without load: ... min-1
- 3.2.4.2.5 Injection piping
  - 3.2.4.2.5 Length: ... mm
  - 3.2.4.2.5 Internal diameter: ... mm
- 3.2.4.2.6 Injector(s)
  - 3.2.4.2.6 Make(s):
  - 3.2.4.2.6 Type(s):
  - 3.2.4.2.6 Opening pressure (2): ... kPa or characteristic diagram (2):
- 3.2.4.2.7 Cold start system
  - 3.2.4.2.7 Make(s):
  - 3.2.4.2.7 Type(s):
  - 3.2.4.2.7 Description:
- 3.2.4.2.8 Auxiliary starting aid
  - 3.2.4.2.8 Make(s):
  - 3.2.4.2.8 Type(s):
  - 3.2.4.2.8 System description:
- 3.2.4.2.9 Electronic control unit
  - 3.2.4.2.9 Make(s):
  - 3.2.4.2.9 Description of the system:
- 3.2.4.3. By fuel injection (positive ignition only): yes/no (1)
  - 3.2.4.3.1 Working principle: intake manifold (single-/multi-point (1))/direct injection/other (specify) (1)
  - 3.2.4.3.2 Make(s):
  - 3.2.4.3.3 Type(s):
  - 3.2.4.3.4 System description
    - 3.2.4.3.4 Type of air temperature sensor: ...
    - 3.2.4.3.4 Type of air temperature switch: ...
  - 3.2.4.3.5 Injectors: opening pressure (2): ... kPa or characteristic diagram:
  - 3.2.4.3.6 Injection timing:
  - 3.2.4.3.7 Cold start system
    - 3.2.4.3.7 Operating principle(s):
    - 3.2.4.3.7 Operating limits/settings (1) (2):
- 3.2.4.4. Feed pump
  - 3.2.4.4.1 Pressure (2): ... kPa or characteristic diagram (2):
- 3.2.5. Electrical system
  - 3.2.5.1. Rated voltage: ... V, positive/negative ground (1)
  - 3.2.5.2. Generator
    - 3.2.5.2.1 Type:
    - 3.2.5.2.2 Nominal output: ... VA
- 3.2.6. Ignition
  - 3.2.6.1. Make(s):
  - 3.2.6.2. Type(s):
  - 3.2.6.3. Working principle:
  - 3.2.6.4. Ignition advance curve (2):
  - 3.2.6.5. Static ignition timing (2): ... degrees before TDC



- 3.2.6.6. Contact-point gap (2): ... mm
- 3.2.6.7. Dwell-angle (2): ... degrees
- 3.2.7. Cooling system: liquid/air (1)
  - 3.2.7.1. Nominal setting of the engine temperature control mechanism
  - 3.2.7.2. Liquid
    - 3.2.7.2.1. Nature of liquid:
    - 3.2.7.2.2. Circulating pump(s): yes/no (1)
    - 3.2.7.2.3. Characteristics: or
      - 3.2.7.2.3.1. Make(s):
      - 3.2.7.2.3.2. Type(s):
    - 3.2.7.2.4. Drive ratio(s):
    - 3.2.7.2.5. Description of the fan and its drive mechanism:
  - 3.2.7.3. Air
    - 3.2.7.3.1. Blower: yes/no (1)
    - 3.2.7.3.2. Characteristics: or
      - 3.2.7.3.2.1. Make(s):
      - 3.2.7.3.2.2. Type(s):
    - 3.2.7.3.3. Drive ratio(s):
- 3.2.8. Intake system
  - 3.2.8.1. Pressure charger: yes/no (1)
    - 3.2.8.1.1. Make(s):
    - 3.2.8.1.2. Type(s):
    - 3.2.8.1.3. Description of the system (e. g. maximum charge pressure: .....
  - 3.2.8.2. Intercooler: yes/no (1)
  - 3.2.8.3. Intake depression at rated engine speed and at 100 % load...
  - 3.2.8.4. Description and drawings of inlet pipes and their accessories (plenum...
    - 3.2.8.4.1. Intake manifold description (include drawings and/or photos):
    - 3.2.8.4.2. Air filter, drawings: or
      - 3.2.8.4.2.1. Make(s):
      - 3.2.8.4.2.2. Type(s):
    - 3.2.8.4.3. Intake silencer, drawings: or
      - 3.2.8.4.3.1. Make(s):
      - 3.2.8.4.3.2. Type(s):
- 3.2.9. Exhaust system
  - 3.2.9.1. Description and/or drawing of the exhaust manifold:
  - 3.2.9.2. Description and/or drawing of the exhaust system:
  - 3.2.9.3. Maximum allowable exhaust back pressure at rated engine speed and...
  - 3.2.9.4. Exhaust silencer(s): For front, centre, rear silencer: construction, type, marking;...
  - 3.2.9.5. Location of the exhaust outlet:
  - 3.2.9.6. Exhaust silencer containing fibrous materials:
- 3.2.10. Minimum cross-sectional areas of inlet and outlet ports:
- 3.2.11. Valve timing or equivalent data
  - 3.2.11.1. Maximum lift of valves, angles of opening and closing, or...
  - 3.2.11.2. Reference and/or setting ranges (1):
- 3.2.12. Measures taken against air pollution
  - 3.2.12.1. Device for recycling crankcase gases (description and drawings):

## 3.2.12.2 Additional anti-pollution devices (if any, and if not covered by...

## 3.2.12.2.1 Catalytic converter: yes/no (1)

3.2.12.2.1.1 Number of catalytic converters and elements:

3.2.12.2.1.2 Dimensions, shape and volume of the catalytic converter(s):

3.2.12.2.1.3 Type of catalytic action:

3.2.12.2.1.4 Total charge of precious metals:

3.2.12.2.1.5 Relative concentration:

3.2.12.2.1.6 Substrate (structure and material):

3.2.12.2.1.7 Cell density:

3.2.12.2.1.8 Type of casing for the catalytic converter(s):

3.2.12.2.1.9 Location of the catalytic converter(s) (place and reference distance in...)

3.2.12.2.1.10 Heat shield: yes/no (1)

## 3.2.12.2.2 Oxygen sensor: yes/no (1)

3.2.12.2.2.1 Type:

3.2.12.2.2.2 Location:

3.2.12.2.2.3 Control range:

## 3.2.12.2.3 Air injection: yes/no (1)

3.2.12.2.3.1 Type (pulse air, air pump, etc.):

## 3.2.12.2.4 Exhaust gas recirculation: yes/no (1)

3.2.12.2.4.1 Characteristics (flow rate, etc.):

## 3.2.12.2.5 Evaporative emissions control system: yes/no (1)

3.2.12.2.5.1 Detailed description of the devices and their state of tune:...

3.2.12.2.5.2 Drawing of the evaporative control system:

3.2.12.2.5.3 Drawing of the carbon canister:

3.2.12.2.5.4 Mass of dry charcoal: ... grams

3.2.12.2.5.5 Schematic drawing of the fuel tank with indication of capacity...

3.2.12.2.5.6 Drawing of the heat shield between tank and exhaust system:...

## 3.2.12.2.6 Particulate trap: yes/no (1)

3.2.12.2.6.1 Dimensions, shape and capacity of the particulate trap:

3.2.12.2.6.2 Type and design of the particulate trap:

3.2.12.2.6.3 Location (reference distance in the exhaust line):

3.2.12.2.6.4 Method or system of regeneration, description and/or drawing:

## 3.2.12.2.7 On-board-diagnostic (OBD) system: yes/no (1)

3.2.12.2.7.1 Written description and/or drawing of the MI:

3.2.12.2.7.2 List and purpose of all components monitored by the OBD...

3.2.12.2.7.3 Written description (general working principles) for

3.2.12.2.7.3.1 Positive-ignition engines (1)

3.2.12.2.7.3.1.1 Catalyst monitoring (1):

3.2.12.2.7.3.1.2 Misfire detection (1):

3.2.12.2.7.3.1.3 Oxygen sensor monitoring (1):

- 3.2.12.2.1 ~~Other~~ components monitored by the OBD system (1):
- 3.2.12.2.2 ~~Compression-ignition engines~~ (1):
  - 3.2.12.2.2.1 ~~Catalyst monitoring~~ (1):
  - 3.2.12.2.2.2 ~~Particulate trap monitoring~~ (1):
  - 3.2.12.2.2.3 ~~Electronic fuelling system monitoring~~ (1):
  - 3.2.12.2.2.4 ~~Other~~ components monitored by the OBD system (1):
- 3.2.12.2.3 ~~Criteria for MI activation (fixed number of driving cycles or...~~
- 3.2.12.2.4 ~~List of all OBD output codes and formats used (with...~~
- 3.2.12.2.5 ~~Other systems (description and operation):~~
- 3.2.13. Location of the absorption coefficient symbol (compression ignition engines only):...
- 3.2.14. Details of any devices designed to influence fuel economy (if...
- 3.2.15. LPG fuelling system: yes/no (1)
  - 3.2.15.1 EC type-approval number according to Directive 70/221/EEC (when the Directive...
  - 3.2.15.2 Electronic engine management control unit for LPG fuelling
    - 3.2.15.2.1 Make(s):
    - 3.2.15.2.2 Type(s):
    - 3.2.15.2.3 Emission-related adjustment possibilities:
  - 3.2.15.3 Further documentation
    - 3.2.15.3.1 Description of the safeguarding of the catalyst at switch-over from...
    - 3.2.15.3.2 System lay-out (electrical connections, vacuum connections compensation hoses, etc.):
    - 3.2.15.3.3 Drawing of the symbol:
- 3.2.16. NG fuelling system: yes/no (1)
  - 3.2.16.1 EC type-approval number according to Directive 70/221/EEC (when the Directive...
  - 3.2.16.2 Electronic engine management control unit for NG fuelling
    - 3.2.16.2.1 Make(s):
    - 3.2.16.2.2 Type(s):
    - 3.2.16.2.3 Emission-related adjustment possibilities:
  - 3.2.16.3 Further documentation
    - 3.2.16.3.1 Description of the safeguarding of the catalyst at switch-over from...
    - 3.2.16.3.2 System lay-out (electrical connections, vacuum connections compensation hoses, etc.):
    - 3.2.16.3.3 Drawing of the symbol:
- 3.3. Electric motor
  - 3.3.1. Type (winding, excitation):
    - 3.3.1.1. Maximum hourly output: ... kW
    - 3.3.1.2. Operating voltage: ... V
  - 3.3.2. Battery
    - 3.3.2.1. Number of cells:
    - 3.3.2.2. Mass: ... kg
    - 3.3.2.3. Capacity: ... Ah (Amp-hours)
    - 3.3.2.4. Position:

- 
- 3.4. Other engines or motors or combinations thereof (particulars regarding the...
  - 3.5. CO<sub>2</sub> emissions/fuel consumption (u) (manufacturer's declared value)
    - 3.5.1. CO<sub>2</sub> mass emissions
      - 3.5.1.1. CO<sub>2</sub> mass emissions (urban conditions): ... g/km
      - 3.5.1.2. CO<sub>2</sub> mass emissions (extra-urban conditions): ... g/km
      - 3.5.1.3. CO<sub>2</sub> mass emissions (combined): ... g/km
    - 3.5.2. Fuel consumption
      - 3.5.2.1. Fuel consumption (urban conditions): ... l/100 km/m<sup>3</sup>/100 km (1)
      - 3.5.2.2. Fuel consumption (extra-urban conditions): ... l/100 km/m<sup>3</sup>/100 km (1)
      - 3.5.2.3. Fuel consumption (combined): ... l/100 km/m<sup>3</sup>/100 km (1)
  - 3.6. Temperatures permitted by the manufacturer
    - 3.6.1. Cooling system
      - 3.6.1.1. Liquid cooling
      - 3.6.1.2. Air cooling
        - 3.6.1.2.1. Reference point:
        - 3.6.1.2.2. Maximum temperature at reference point: ... K
    - 3.6.2. Maximum outlet temperature of the inlet intercooler: ... K
    - 3.6.3. Maximum exhaust temperature at the point in the exhaust pipe(s)...
    - 3.6.4. Fuel temperature
    - 3.6.5. Lubricant temperature
  - 3.7. Engine-driven equipment Maximum permissible power absorbed by the engine-driven equipment...
    - 3.7.1. Idling: ... kW
    - 3.7.2. Intermediate: ... kW
    - 3.7.3. Rated: ... kW
  - 3.8. Lubrication system
    - 3.8.1. Description of the system
      - 3.8.1.1. Position of lubricant reservoir:
      - 3.8.1.2. Feed system (by pump/injection into intake/mixing with fuel, etc.) (1)...
    - 3.8.2. Lubricating pump
      - 3.8.2.1. Make(s):
      - 3.8.2.2. Type(s):
    - 3.8.3. Mixture with fuel
      - 3.8.3.1. Percentage:
    - 3.8.4. Oil cooler: yes/no (1)
      - 3.8.4.1. Drawing(s): or
        - 3.8.4.1.1. Make(s):
        - 3.8.4.1.2. Type(s):
  - 3.9. GAS FUELLED ENGINES (In the case of systems laid-out in...
    - 3.9.1. Fuel: LPG/NG-H/NG-L/NG-HL (1)
    - 3.9.2. Pressure regulator(s) or vaporiser/pressure regulator(s) (1)
      - 3.9.2.1. Make(s):
      - 3.9.2.2. Type(s):
      - 3.9.2.3. Number of pressure reduction stages:
      - 3.9.2.4. Pressure in final stage
      - 3.9.2.5. Number of main adjustment points:
      - 3.9.2.6. Number of idle adjustment points:
      - 3.9.2.7. EC type-approval number according to .../.../EC:
    - 3.9.3. Fuelling system: mixing unit/gas injection/liquid injection/direct injection (1)

- 3.9.3.1. Mixture strength regulation:
- 3.9.3.2. System description and/or diagram and drawings:
- 3.9.3.3. EC type-approval number according to .../.../EC:
- 3.9.4. Mixing unit
  - 3.9.4.1. Number:
  - 3.9.4.2. Make(s):
  - 3.9.4.3. Type(s):
  - 3.9.4.4. Location:
  - 3.9.4.5. Adjustment possibilities:
  - 3.9.4.6. EC type-approval number according to .../.../EC:
- 3.9.5. Inlet manifold injection
  - 3.9.5.1. Injection: single point/multipoint (1)
  - 3.9.5.2. Injection: continuous/simultaneously timed/sequentially timed (1)
  - 3.9.5.3. Injection equipment
    - 3.9.5.3.1 Make(s):
    - 3.9.5.3.2 Type(s):
    - 3.9.5.3.3 Adjustment possibilities:
    - 3.9.5.3.4 EC type-approval number according to .../.../EC:
  - 3.9.5.4. Supply pump (if applicable)
    - 3.9.5.4.1 Make(s):
    - 3.9.5.4.2 Type(s):
    - 3.9.5.4.3 EC type-approval number according to .../.../EC:
  - 3.9.5.5. Injector(s)
    - 3.9.5.5.1 Make(s):
    - 3.9.5.5.2 Type(s):
    - 3.9.5.5.3 EC type-approval number according to .../.../EC:
- 3.9.6. Direct injection
  - 3.9.6.1. Injection pump/pressure regulator (1)
    - 3.9.6.1.1 Make(s):
    - 3.9.6.1.2 Type(s):
    - 3.9.6.1.3 Injection timing:
    - 3.9.6.1.4 EC type-approval number according to .../.../EC:
  - 3.9.6.2. Injector(s)
    - 3.9.6.2.1 Make(s):
    - 3.9.6.2.2 Type(s):
    - 3.9.6.2.3 Opening pressure or characteristic diagram (2):
    - 3.9.6.2.4 EC type-approval number according to .../.../EC:
- 3.9.7. Electronic control unit (ECU)
  - 3.9.7.1. Make(s):
  - 3.9.7.2. Type(s):
  - 3.9.7.3. Adjustment possibilities:
- 3.9.8. NG fuel-specific equipment
  - 3.9.8.1. Variant 1 (only in the case of approvals of engines...)
    - 3.9.8.1.1 Fuel composition:
      - 3.9.8.1.1.1 Injector(s)
        - 3.9.8.1.1.1.1 Make(s):
        - 3.9.8.1.1.1.2 Type(s):
      - 3.9.8.1.1.3 Others (if applicable): ...
    - 3.9.8.1.1.4 Fuel temperature
    - 3.9.8.1.1.5 Fuel pressure
  - 3.9.8.2. Variant 2 (only in the case of approvals for several...

4. TRANSMISSION (v)
  - 4.1. Drawing of the transmission:
  - 4.2. Type (mechanical, hydraulic, electric, etc.):
    - 4.2.1. A brief description of the electrical/electronic components (if any):
  - 4.3. Moment of inertia of engine flywheel:
    - 4.3.1. Additional moment of inertia with no gear engaged:
  - 4.4. Clutch (type):
    - 4.4.1. Maximum torque conversion:
  - 4.5. Gearbox
    - 4.5.1. Type (manual/automatic/CVT (continuously variable transmission)) (1)
    - 4.5.2. Location relative to the engine:
    - 4.5.3. Method of control:
  - 4.6. Gear ratios
  - 4.7. Maximum vehicle speed (in km/h) (w):
  - 4.8. Speedometer (in the case of tachograph give approval mark only)...
    - 4.8.1. Method of operation and description of drive mechanism:
    - 4.8.2. Instrument constant:
    - 4.8.3. Tolerance of the measuring mechanism (pursuant to item 2.1.3 of Annex II...
    - 4.8.4. Overall transmission ratio (pursuant to item 2.1.2 of Annex II to Directive...
    - 4.8.5. Diagram of the speedometer scale or other forms of display:...
  - 4.9. Differential lock: yes/no/optional (1)
5. AXLES
  - 5.1. Description of each axle:
  - 5.2. Make:
  - 5.3. Type: ...
  - 5.4. Position of retractable axle(s):
  - 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...
    - 6.2.1. Level adjustment: yes/no/optional (1)
    - 6.2.2. A brief description of the electrical/electronic components (if any):
    - 6.2.3. Air-suspension for driving axle(s): yes/no (1)
      - 6.2.3.1. Suspension of driving axle(s) equivalent to air-suspension: yes/no (1)
      - 6.2.3.2. Frequency and damping of the oscillation of the sprung mass:...
  - 6.3. Characteristics of the springing parts of the suspension (design, characteristics...
  - 6.4. Stabilisers: yes/no/optional (1)
  - 6.5. Shock absorbers: yes/no/optional (1)
  - 6.6. Tyres and wheels
    - 6.6.1. Tyre/wheel combination(s) (for tyres indicate size designation, minimum load-capacity index,...)
      - 6.6.1.1. Axles
        - 6.6.1.1.1 Axle 1:
        - 6.6.1.1.2 Axle 2:
      - 6.6.1.2. Spare wheel, if any:

- 6.6.2. Upper and lower limits of rolling radii
    - 6.6.2.1. Axle 1:
    - 6.6.2.2. Axle 2:
  - 6.6.3. Tyre pressure(s) as recommended by the vehicle manufacturer: ... kPa...
  - 6.6.4. Chain/tyre/wheel combination on the front and/or rear axle that is...
  - 6.6.5. Brief description of temporary use spare unit (if any):
7. STEERING
- 7.1. Schematic diagram of steered axle(s) showing steering geometry:
  - 7.2. Transmission and control
    - 7.2.1. Type of steering transmission (specify for front and rear, if...
    - 7.2.2. Linkage to wheels (including other than mechanical means; specify for...
      - 7.2.2.1. A brief description of the electrical/electronic components (if any):
    - 7.2.3. Method of assistance (if any):
      - 7.2.3.1. Method and diagram of operation, make(s) and type(s):
    - 7.2.4. Diagram of the steering equipment as a whole, showing the...
    - 7.2.5. Schematic diagram(s) of the steering control(s):
    - 7.2.6. Range and method of adjustment (if any), of the steering...
  - 7.3. Maximum steering angle of the wheels
    - 7.3.1. To the right: ... degrees; number of turns of the...
    - 7.3.2. To the left: ... degrees; number of turns of the...
8. BRAKES
- 8.1. Type and characteristics of the brakes (as defined in Annex I,...
  - 8.2. Operating diagram, description and/or drawing of the following braking systems...
    - 8.2.1. Service braking system:
    - 8.2.2. Secondary braking system:
    - 8.2.3. Parking braking system:
    - 8.2.4. Any additional braking system:
    - 8.2.5. Break-away braking system:
  - 8.3. Control and transmission of trailer braking systems in vehicles designed...
  - 8.4. Vehicle is equipped to tow a trailer with electric/pneumatic/hydraulic (1)...
  - 8.5. Anti-lock braking system: yes/no/optional (1)
    - 8.5.1. For vehicles with anti-lock systems, description of system operation (including...
  - 8.6. Calculation and curves according to the Appendix to item 1.1.4.2 of...
  - 8.7. Description and/or drawing of the energy supply (also to be...
    - 8.7.1. In the case of compressed-air braking systems, working pressure p2...
    - 8.7.2. In the case of vacuum braking systems, the initial energy...
  - 8.8. Calculation of the braking system: Determination of the ratio between...
  - 8.9. Brief description of the braking systems (according to item 1.6 of...
  - 8.10. If claiming exemptions from the Type I and/or Type II...
  - 8.11. Particulars of the type(s) of endurance braking system(s):
9. BODYWORK
- 9.1. Type of bodywork:
  - 9.2. Materials used and methods of construction:
  - 9.3. Occupant doors, latches and hinges
    - 9.3.1. Door configuration and number of doors:

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- 9.3.1.1. Dimensions, direction and maximum angle of opening:
  - 9.3.2. Drawing of latches and hinges and of their position in...
  - 9.3.3. Technical description of latches and hinges:
  - 9.3.4. Details (including dimensions) of entrances, steps and necessary handles where...
  - 9.4. Field of vision (Directive 77/649/EEC)
    - 9.4.1. Particulars of the primary reference marks in sufficient detail to...
    - 9.4.2. Drawing(s) or photograph(s) showing the location of component parts within...
  - 9.5. Windscreen and other windows
    - 9.5.1. Windscreen
      - 9.5.1.1. Materials used:
      - 9.5.1.2. Method of mounting:
      - 9.5.1.3. Angle of inclination:
      - 9.5.1.4. EC type-approval number(s):
      - 9.5.1.5. Windscreen accessories and the position in which they are fitted...
    - 9.5.2. Other windows
      - 9.5.2.1. Materials used:
      - 9.5.2.2. EC type-approval number(s):
      - 9.5.2.3. A brief description of the electrical/electronic components (if any) of...
    - 9.5.3. Opening roof glazing
      - 9.5.3.1. Materials used:
      - 9.5.3.2. EC type-approval number(s):
    - 9.5.4. Other glass panes
      - 9.5.4.1. Materials used:
      - 9.5.4.2. EC type-approval number(s):
  - 9.6. Windscreen wiper(s)
    - 9.6.1. Detailed technical description (including photographs or drawings):
  - 9.7. Windscreen washer
    - 9.7.1. Detailed technical description (including photographs or drawings) or, if approved as...
  - 9.8. Defrosting and demisting
    - 9.8.1. Detailed technical description (including photographs or drawings):
    - 9.8.2. Maximum electrical consumption: ... kW
  - 9.9. Devices for indirect vision
    - 9.9.1. Mirrors (state for each mirror):
      - 9.9.1.1. Make:
      - 9.9.1.2. EC type-approval mark:
      - 9.9.1.3. Variant:
      - 9.9.1.4. Drawing(s) for the identification of the mirror showing the position...
      - 9.9.1.5. Details of the method of attachment including that part of...
      - 9.9.1.6. Optional equipment which may affect the rearward field of vision:...
      - 9.9.1.7. A brief description of the electronic components (if any) of...
    - 9.9.2. Devices for indirect vision other than mirrors:
      - 9.9.2.1. Type and characteristics (such as a complete description of the...
        - 9.9.2.1.1. In the case of a camera-monitor device, the detection distance...



- 9.9.2.1. ~~S~~Sufficiently detailed drawings to identify the complete device, including installation...
- 9.10. Interior fittings
  - 9.10.1. Interior protection for occupants (Directive 74/60/EEC)
    - 9.10.1.1 Layout drawing or photographs showing the position of the attached...
    - 9.10.1.2 Photograph or drawing showing the reference line including the exempted...
    - 9.10.1.3 Photographs, drawings and/or an exploded view of the interior fittings,...
  - 9.10.2. Arrangement and identification of controls, tell-tales and indicators
    - 9.10.2.1 Photographs and/or drawings of the arrangement of symbols and controls,...
    - 9.10.2.2 Photographs and/or drawings of the identification of controls, tell-tales and...
    - 9.10.2.3 Summary table
  - 9.10.3. Seats
    - 9.10.3.1 Number:
    - 9.10.3.2 Position and arrangement:
      - 9.10.3.2.1 Number of seating positions:
      - 9.10.3.2.2 ~~S~~eat(s) designated for use only when the vehicle is stationary:...
    - 9.10.3.3 Mass:
    - 9.10.3.4 Characteristics: for seats not EC type-approved as components, description and...
      - 9.10.3.4.1 the seats and their anchorages:
      - 9.10.3.4.2 the adjustment system:
      - 9.10.3.4.3 the displacement and locking systems:
      - 9.10.3.4.4 the seat belt anchorages (if incorporated in the seat structure):...
      - 9.10.3.4.5 the parts of the vehicle used as anchorages:
    - 9.10.3.5 Coordinates or drawing of the R-point (x)
      - 9.10.3.5.1 Driver's seat:
      - 9.10.3.5.2 All other seating positions:
    - 9.10.3.6 Design torso angle
      - 9.10.3.6.1 Driver's seat:
      - 9.10.3.6.2 All other seating positions:
    - 9.10.3.7 Range of seat adjustment
      - 9.10.3.7.1 Driver's seat:
      - 9.10.3.7.2 All other seating positions:
  - 9.10.4. Head restraints
    - 9.10.4.1 Type(s) of head restraints: integrated/detachable/separate (1)
    - 9.10.4.2 EC type-approval number(s), if available:
    - 9.10.4.3 For head restraints not yet approved
      - 9.10.4.3.1 A detailed description of the head restraint, specifying in particular...
      - 9.10.4.3.2 In the case of a 'separate' head restraint
        - 9.10.4.3.2.1 A detailed description of the structural zone to which the...
        - 9.10.4.3.2.2 Dimensional drawings of the characteristic parts of the structure and...
  - 9.10.5. Heating systems for the passenger compartment
    - 9.10.5.1 A brief description of the vehicle type with regard to...

- 9.10.5.2A detailed description of the vehicle type with regard to...
  - 9.10.5.2.1 layout drawing of the heating system showing its position in...
  - 9.10.5.2.2 layout drawing of the heat exchanger for heating systems using...
  - 9.10.5.2.3 sectional drawing of the heat exchanger or the parts respectively...
  - 9.10.5.2.4 Specifications shall be given for further important components of the...
- 9.10.5.3A brief description of the vehicle type with regard to...
  - 9.10.5.3.1 layout drawing of the combustion heater, the air inlet system,...
- 9.10.5.4Maximum electrical consumption: ... kW
- 9.10.6. Components influencing the behaviour of the steering mechanism in the...
  - 9.10.6.1A detailed description, including photograph(s) and/or drawing(s), of the vehicle...
  - 9.10.6.2Photograph(s) and/or drawing(s) of vehicle components other than those described...
- 9.10.7. Burning behaviour of materials used in the interior construction of...
  - 9.10.7.1Material(s) used for the interior lining of the roof
    - 9.10.7.1.1Component EC type-approval number(s), if available:
      - 9.10.7.1.1.1For materials not approved
        - 9.10.7.1.1.1.1.1Base material(s)/designation: .../...
        - 9.10.7.1.1.1.1.2Composite/single (1) material, number of layers (1):
        - 9.10.7.1.1.1.1.3Type of coating (1):
        - 9.10.7.1.1.1.1.4Maximum/minimum thickness: .../... mm
  - 9.10.7.1.2Material(s) used for the rear and side walls
    - 9.10.7.1.2.1Component type-approval number(s), if available:
      - 9.10.7.1.2.1.1For materials not approved
        - 9.10.7.1.2.1.1.1.1Base material(s)/designation: .../...
        - 9.10.7.1.2.1.1.1.2Composite/single (1) material, number of layers (1):
        - 9.10.7.1.2.1.1.1.3Type of coating (1):
        - 9.10.7.1.2.1.1.1.4Maximum/minimum thickness: .../... mm
- 9.10.7.1.3Material(s) used for the floor
  - 9.10.7.1.3.1Component EC type-approval number(s), if available:
    - 9.10.7.1.3.1.1For materials not approved
      - 9.10.7.1.3.1.1.1.1Base material(s)/designation: .../...
      - 9.10.7.1.3.1.1.1.2Composite/single (1) material, number of layers (1):
      - 9.10.7.1.3.1.1.1.3Type of coating (1):
      - 9.10.7.1.3.1.1.1.4Maximum/minimum thickness: .../... mm
- 9.10.7.1.4Material(s) used for the upholstery of the seats
  - 9.10.7.1.4.1Component EC type-approval number(s), if available:
    - 9.10.7.1.4.1.1For materials not approved
      - 9.10.7.1.4.1.1.1.1Base material(s)/designation: .../...
      - 9.10.7.1.4.1.1.1.2Composite/single (1) material, number of layers (1):
      - 9.10.7.1.4.1.1.1.3Type of coating (1):
      - 9.10.7.1.4.1.1.1.4Maximum/minimum thickness: .../... mm
- 9.10.7.1.5Material(s) used for the heating and ventilation pipes

- 9.10.7.5 Component EC type-approval number(s), if available:
  - 9.10.7.5E For materials not approved
    - 9.10.7.5B Base material(s)/designation: .../...
    - 9.10.7.5C Composite/single (1) material, number of layers (1):
    - 9.10.7.5D Type of coating (1):
    - 9.10.7.5M Maximum/minimum thickness: .../... mm
- 9.10.7.6 Material(s) used for luggage racks
  - 9.10.7.6 Component EC type-approval number(s), if available:
    - 9.10.7.6E For materials not approved
      - 9.10.7.6B Base material(s)/designation: .../...
      - 9.10.7.6C Composite/single (1) material, number of layers (1):
      - 9.10.7.6D Type of coating (1):
      - 9.10.7.6M Maximum/minimum thickness: .../... mm
- 9.10.7.7 Material(s) used for other purposes
  - 9.10.7.7I Intended purposes:
  - 9.10.7.7 Component EC type-approval number(s), if available:
    - 9.10.7.7E For materials not approved
      - 9.10.7.7B Base material(s)/designation: .../...
      - 9.10.7.7C Composite/single (1) material, number of layers (1):
      - 9.10.7.7D Type of coating (1):
      - 9.10.7.7M Maximum/minimum thickness: .../... mm
- 9.10.7.8 Components approved as complete devices (seats, separation walls, luggage racks,...)
  - 9.10.7.8 Component EC type-approval number(s):
  - 9.10.7.8E For the complete device: seat, separation wall, luggage racks, etc....
- 9.11. External projections (Directive 74/483/EEC and Directive 92/114/EEC)
  - 9.11.1. General arrangement (drawing or photographs) indicating the position of the attached...
  - 9.11.2. Drawings and/or photographs, for example, and where relevant, of the...
  - 9.11.3. Drawings of parts of the external surface in accordance with...
  - 9.11.4. Drawing of bumpers:
  - 9.11.5. Drawing of the floor line:
- 9.12. Safety belts and/or other restraint systems
  - 9.12.1. Number and position of safety belts and restraint systems and...
  - 9.12.2. Nature and position of supplementary restraint systems (indicate yes/no/optional):
  - 9.12.3. Number and position of safety belt anchorages and proof of...
  - 9.12.4. A brief description of the electrical/electronic components (if any):
- 9.13. Safety belt anchorages
  - 9.13.1. Photographs and/or drawings of the bodywork showing the position and...
  - 9.13.2. Drawings of the belt anchorages and parts of the vehicle...
  - 9.13.3. Designation of the types (\*\*) of safety belt authorised for...
  - 9.13.4. Description of a particular type of safety belt where an...
- 9.14. Space for mounting rear registration plates (give range where appropriate,...)
  - 9.14.1. Height above road surface, upper edge:
  - 9.14.2. Height above road surface, lower edge:
  - 9.14.3. Distance of the centre line from the longitudinal median plane...

- 9.14.4. Distance from the left vehicle edge:
  - 9.14.5. Dimensions (length × width):
  - 9.14.6. Inclination of the plane to the vertical:
  - 9.14.7. Angle of visibility in the horizontal plane:
  - 9.15. Rear underrun protection (Directive 70/221/EEC)
    - 9.15.0. Presence: yes/no/incomplete (1)
    - 9.15.1. Drawing of the vehicle parts relevant to the rear underrun...
    - 9.15.2. In case of a special device, full description and/or drawing...
  - 9.16. Wheel guards (Directive 78/549/EEC)
    - 9.16.1. Brief description of the vehicle with regard to its wheel...
    - 9.16.2. Detailed drawings of the wheel guards and their position on...
  - 9.17. Statutory plates (Directive 76/114/EEC)
    - 9.17.1. Photographs and/or drawings of the locations of the statutory plates...
    - 9.17.2. Photographs and/or drawings of the official part of the plates...
    - 9.17.3. Photographs and/or drawings of the vehicle identification number (completed example...)
    - 9.17.4. Manufacturer's declaration of compliance with the requirement of item 1.1.1 of...
      - 9.17.4.1 The meaning of characters in the second section and, if...
      - 9.17.4.2 If characters in the second section are used to comply...
  - 9.18. Suppression of radio interference
    - 9.18.1. Description and drawings/photographs of the shapes and constituent materials of...
    - 9.18.2. Drawings or photographs of the position of metal components housed...
    - 9.18.3. Table and drawing of radio-interference control equipment:
    - 9.18.4. Particulars of the nominal value of the direct current resistance,...
  - 9.19. Lateral protection (Directive 89/297/EEC)
    - 9.19.0. Presence: yes/no/incomplete (1)
    - 9.19.1. Drawing of the vehicle parts relevant to the lateral protection,...
    - 9.19.2. In the case of lateral protection device(s), full description and/or...
  - 9.20. Spray-suppression system (Directive 91/226/EEC)
    - 9.20.0. Presence: yes/no/incomplete (1)
    - 9.20.1. Brief description of the vehicle with regard to its spray-suppression...
    - 9.20.2. Detailed drawings of the spray-suppression system and its position on...
    - 9.20.3. EC type-approval number(s) of spray-suppression device(s), if available:
  - 9.21. Side-impact resistance (Directive 96/27/EC)
    - 9.21.1. A detailed description, including photographs and/or drawings, of the vehicle...
  - 9.22. Front underrun protection
    - 9.22.1. Drawing of the vehicle parts relevant to the front underrun...
    - 9.22.2. In the case of special device, full description and/or drawing...
  - 9.23. Pedestrian protection
    - 9.23.1. A detailed description, including photographs and/or drawings, of the vehicle...
10. LIGHTING AND LIGHT SIGNALLING DEVICES
- 10.1. Table of all devices: number, make, model, EC type-approval mark,...
  - 10.2. Drawing of the position of lighting and light signalling devices:...
  - 10.3. For every lamp and reflector specified in Directive 76/756/EEC supply...
    - 10.3.1. Drawing showing the extent of the illuminating surface:

- 10.3.2. Method used for the definition of the apparent surface (paragraph 2.10...
  - 10.3.3. Axis of reference and centre of reference:
  - 10.3.4. Method of operation of concealable lamps:
  - 10.3.5. Any specific mounting and wiring provisions:
  - 10.4. Dipped beam lamps: normal orientation as per paragraph 6.2.6.1 of the...
    - 10.4.1. Value of initial adjustment:
    - 10.4.2. Location of indication:
  - 10.5. A brief description of electrical/electronic components other than lamps (if...
11. CONNECTIONS BETWEEN TOWING VEHICLES AND TRAILERS AND SEMI-TRAILERS
- 11.1. Class and type of the coupling device(s) fitted or to...
  - 11.2. Characteristics D, U, S and V of the coupling device(s) fitted...
  - 11.3. Instructions for attachment of the coupling type to the vehicle...
  - 11.4. Information of the fitting of special towing brackets or mounting...
  - 11.5. EC type-approval number(s):
12. MISCELLANEOUS
- 12.1. Audible warning device(s)
    - 12.1.1. Location, method of affixing, placement and orientation of the device(s),...
    - 12.1.2. Number of device(s):
    - 12.1.3. EC type-approval number(s):
    - 12.1.4. Electrical/pneumatic (1) circuit diagram:
    - 12.1.5. Rated voltage or pressure:
    - 12.1.6. Drawing of the mounting device:
  - 12.2. Devices to prevent unauthorised use of the vehicle
    - 12.2.1. Protective device
      - 12.2.1.1 A detailed description of the vehicle type with regard to...
      - 12.2.1.2 Drawings of the protective device and of its mounting on...
      - 12.2.1.3 A technical description of the device:
      - 12.2.1.4 Details of the lock combinations used:
      - 12.2.1.5 Vehicle immobiliser
        - 12.2.1.5A EC type-approval number, if available:
        - 12.2.1.5B For immobilisers not yet approved
          - 12.2.1.5B.1 detailed technical description of the vehicle immobiliser and of...
          - 12.2.1.5B.2 The system(s) on which the vehicle immobiliser acts:
          - 12.2.1.5B.3 Number of effective interchangeable codes, if applicable:
    - 12.2.2. Alarm system (if any)
      - 12.2.2.1 EC type-approval number, if available:
      - 12.2.2.2 For alarm systems not yet approved
        - 12.2.2.2A detailed description of the alarm system and of the...
        - 12.2.2.2B list of the main components comprising the alarm system:...
    - 12.2.3. A brief description of the electrical/electronic components (if any):
  - 12.3. Towing device(s)
    - 12.3.1. Front: Hook/eye/other (1)
    - 12.3.2. Rear: Hook/eye/other/none (1)
    - 12.3.3. Drawing or photograph of the chassis/area of the vehicle body...

- 12.4. Details of any non-engine related devices designed to influence fuel...
- 12.5. Details of any non-engine related devices designed to reduce noise...
- 12.6. Speed limiters (Directive 92/24/EEC)
  - 12.6.1. Manufacturer(s):
  - 12.6.2. Type(s):
  - 12.6.3. EC type-approval number(s), if available:
  - 12.6.4. Speed or range of speeds at which the speed limitation...
- 12.7. Table of installation and use of RF transmitters in the...
  - Appendix 1
  - Appendix 2
  - Appendix 3
  - Appendix 4
  - 12.7.1. Vehicle equipped with a 24 GHz short-range radar equipment: Yes/No (strike...)
  - 12.7.2. Vehicle equipped with a 79 GHz short-range radar equipment: Yes/No (strike...)
- 13. SPECIAL PROVISIONS FOR VEHICLES USED FOR THE CARRIAGE OF PASSENGERS...
  - 13.1. Class of vehicle (Class I, Class II, Class III, Class...)
    - 13.1.1. EC type-approval number of bodywork approved as a separate technical...
    - 13.1.2. Chassis types where the EC type-approved bodywork can be installed...
  - 13.2. Area for passengers (m<sup>2</sup>)
    - 13.2.1. Total (S0):
    - 13.2.2. Upper deck (S0a) (1):
    - 13.2.3. Lower deck (S0b) (1):
    - 13.2.4. For standing passengers (S1):
  - 13.3. Number of passengers (seated and standing)
    - 13.3.1. Total (N):
    - 13.3.2. Upper deck (Na) (1):
    - 13.3.3. Lower deck (Nb) (1):
  - 13.4. Number of passengers seated
    - 13.4.1. Total (A):
    - 13.4.2. Upper deck (Aa) (1):
    - 13.4.3. Lower deck (Ab) (1):
  - 13.5. Number of service doors:
  - 13.6. Number of emergency exits (doors, windows, escape hatches, intercommunication staircase...)
    - 13.6.1. Total:
    - 13.6.2. Upper deck (1):
    - 13.6.3. Lower deck (1):
  - 13.7. Volume of luggage compartments (m<sup>3</sup>):
  - 13.8. Area of luggage transportation on the roof (m<sup>2</sup>):
  - 13.9. Technical devices facilitating the access to vehicles (e.g. ramp, lifting...)
  - 13.10. Strength of superstructure
    - 13.10.1. EC type-approval number, if available:
    - 13.10.2. For superstructures not yet approved
      - 13.10.2.1. Detailed description of the superstructure of the vehicle type including...
      - 13.10.2.2. Drawings of the vehicle and those parts of its interior...
      - 13.10.2.3. Position of centre of gravity of the vehicle in running...

- 13.10.2. Maximum distance between the centre lines of the outboard passenger...
- 13.11. Points of the Directive [...] /EC] to be accomplished and demonstrated...
- 14. SPECIAL PROVISIONS FOR VEHICLES INTENDED FOR THE TRANSPORT OF DANGEROUS...
  - 14.1. Electrical equipment according to Directive 94/55/EC
    - 14.1.1. Protection against overheating of conductors:
    - 14.1.2. Type of circuit breaker:
    - 14.1.3. Type and operation of battery master switch:
    - 14.1.4. Description and location of safety barrier for tachograph:
    - 14.1.5. Description of permanently energised installations. Indicate the EN standard applied:...
    - 14.1.6. Construction and protection of electrical installation situated to the rear...
  - 14.2. Prevention of fire risks
    - 14.2.1. Type of not readily flammable material in the driver's compartment:...
    - 14.2.2. Type of heat shield behind the driver's compartment (if applicable):...
    - 14.2.3. Position and heat protection of engine:
    - 14.2.4. Position and heat protection of the exhaust system:
    - 14.2.5. Type and design of the endurance braking systems heat protection:...
    - 14.2.6. Type, design and position of combustion heaters:
  - 14.3. Special requirements for bodywork, if any, according to Directive 94/55/EC...
    - 14.3.1. Description of measures to comply with the requirements for Type...
    - 14.3.2. In the case of Type EX/III vehicles, resistance against heat...

Explanatory notes

## ANNEX II

### Definition of vehicle categories and vehicle types

- A. DEFINITION OF VEHICLE CATEGORY
  - 1. Category M: Motor vehicles with at least four wheels designed...
  - 2. Category N: Motor vehicles with at least four wheels designed...
  - 3. Category O: Trailers (including semi-trailers). Category O1: Trailers with a...
  - 4. Off-road vehicles (symbol G)
    - 4.1. Vehicles in category N1 with a maximum mass not exceeding...
    - 4.2. Vehicles in category N1 with a maximum mass exceeding two...
    - 4.3. Vehicles in category M3 with a maximum mass exceeding 12 tonnes...
    - 4.4. Load and checking conditions.
      - 4.4.1. Vehicles in category N1 with a maximum mass not exceeding...
      - 4.4.2. Motor vehicles other than those referred to in 4.4.1 must...
      - 4.4.3. The ability to climb the required gradients (25 % and 30 %) is...
      - 4.4.4. When measuring approach and departure angles and ramp angles, no...
    - 4.5. Definitions and sketches of ground clearance. (For definitions of approach...
      - 4.5.1. 'Ground clearance between the axles' means the shortest distance between...

- 4.5.2. 'Ground clearance beneath one axle' means the distance beneath the...
- 4.6. Combined designation
- 5. 'Special purpose vehicle' means a vehicle intended to perform a...
  - 5.1. 'Motor Caravan' means a special purpose M category vehicle constructed...
  - 5.2. 'Armoured vehicles' means vehicles intended for the protection of conveyed...
  - 5.3. 'Ambulances' means motor vehicles of category M intended for the...
  - 5.4. 'Hearses' means motor vehicles of category M intended for the...
  - 5.5. 'Wheelchair accessible vehicle' means vehicles of category M1 constructed or converted...
  - 5.6. 'Trailer caravans' see ISO Standard 3833-77, term No 3.2.1.3.
  - 5.7. 'Mobile cranes' means a special purpose vehicle of category N3,...
  - 5.8. 'Other special purpose vehicles' means vehicles as defined in item 5...

#### B. DEFINITION OF VEHICLE TYPE

- 1. For the purposes of category M1:
- 2. For the purpose of categories M2 and M3:
- 3. For the purpose of categories N1, N2 and N3:
- 4. For the purpose of categories O1, O2, O3 and O4:...
- 5. For all categories:

#### C. DEFINITION OF TYPE OF BODYWORK (only for complete/completed vehicles)

- 1. Passenger cars (M1)
- 2. Motor vehicles of category M2 or M3
- 3. Motor vehicles of category N
- 4. Vehicles of category O
- 5. Special purpose vehicles

### ANNEX III

Information document for the purpose of EC type-approval of vehicles

#### PART I

##### A: For Categories M and N

- 0. GENERAL
  - 0.1. Make trade name of manufacturer:
  - 0.2. Type: ...
    - 0.2.1. Commercial name(s) (if available):
  - 0.3. Means of identification of type, if marked on the vehicle...
    - 0.3.1. Location of that marking: ...
  - 0.4. Category of vehicle (c):
    - 0.4.1. Classification(s) according to the dangerous goods which the vehicle is...
  - 0.5. Name and address of manufacturer: ...
  - 0.8. 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:
- 1.3. Number of axles and 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):
- 1.6. Position and arrangement of the engine:
- 1.8. Hand of drive: left/right (1)
  - 1.8.1. Vehicle is equipped to be driven in right/left (1) hand...
2. **MASSES AND DIMENSIONS (e) (in kg and mm)**
  - 2.1. Wheelbase(s) (fully loaded) (f):
  - 2.3.1. Track of each steered axle (i):
  - 2.3.2. Track of all other axles (i):
  - 2.4. Range of vehicle dimensions (overall)
    - 2.4.2. For chassis with bodywork
      - 2.4.2.1. Length (j):
        - 2.4.2.1.1. Length of the loading area:
      - 2.4.2.2. Width (k):
        - 2.4.2.2.1. Thickness of the walls (in the case of vehicles designed...
      - 2.4.2.3. Height (in running order) (l) (for suspensions adjustable for height,...
  - 2.6. Mass of the vehicle with bodywork and, in the case...
    - 2.6.1. Distribution of this mass among the axles and, in the...
  - 2.7. Minimum mass of the completed vehicle as stated by the...
  - 2.8. Technically permissible maximum laden mass stated by the manufacturer (y)...
    - 2.8.1. Distribution of this mass among the axles and, in the...
  - 2.9. Technically permissible maximum mass on each axle:
  - 2.10. Technically permissible maximum mass on each axle group:
  - 2.11. Technically permissible maximum towable mass of the motor vehicle in...
    - 2.11.1. Drawbar trailer:
    - 2.11.2. Semi-trailer:
    - 2.11.3. Centre-axle trailer:
    - 2.11.4. Technically permissible maximum mass of the combination:
    - 2.11.5. Vehicle is/is not (1) suitable for towing loads (item 1.2 of...
    - 2.11.6. Maximum mass of unbraked trailer:
  - 2.12. Technically permissible maximum static vertical load/mass on the vehicle's coupling...
    - 2.12.1. Of the motor vehicle:
  - 2.16. Intended registration/in service maximum permissible masses (optional: where these values...
    - 2.16.1. Intended registration/in service maximum permissible laden mass (Several entries possible...
    - 2.16.2. Intended registration/in service maximum permissible mass on each axle and,...
    - 2.16.3. Intended registration/in service maximum permissible mass on each axle group...
    - 2.16.4. Intended registration/in service maximum permissible towable mass (Several entries possible...
    - 2.16.5. Intended registration/in service maximum permissible mass of the combination (Several...
3. **POWER PLANT (q) (In the case of a vehicle that...**

- 
- 3.1. Manufacturer:
    - 3.1.1. Manufacturer's engine code as marked on the engine:
  - 3.2. Internal combustion engine
    - 3.2.1.1. Working principle: positive ignition/compression ignition, four stroke/two stroke (1)
    - 3.2.1.2. Number and arrangement of cylinders:
    - 3.2.1.3. Engine capacity (s): ... cm<sup>3</sup>
    - 3.2.1.6. Normal engine idling speed (2): ... min<sup>-1</sup>
    - 3.2.1.8. Maximum net power (t): ... kW at ... min<sup>-1</sup> (manufacturer's...)
    - 3.2.1.9. Maximum permitted engine speed as prescribed by the manufacturer: .....
    - 3.2.2. Fuel: Diesel oil/Petrol/LPG/NG/Ethanol: (1)
      - 3.2.2.1. RON leaded:
      - 3.2.2.2. RON, unleaded:
    - 3.2.4. Fuel feed
      - 3.2.4.1. By carburettor(s): yes/no (1)
      - 3.2.4.2. By fuel injection (compression ignition only): yes/no (1)
        - 3.2.4.2.2. Working principle: direct injection/pre-chamber/swirl chamber (1)
      - 3.2.4.3. By fuel injection (positive ignition only): yes/no (1)
    - 3.2.7. Cooling system: liquid/air (1)
    - 3.2.8. Intake system
      - 3.2.8.1. Pressure charger: yes/no (1)
    - 3.2.12. Measures taken against air pollution
      - 3.2.12.2. Additional anti-pollution devices (if any, and if not covered by...
        - 3.2.12.2.1. Catalytic converter: yes/no (1)
        - 3.2.12.2.2. Oxygen sensor: yes/no (1)
        - 3.2.12.2.3. Air injection: yes/no (1)
        - 3.2.12.2.4. Exhaust gas recirculation: yes/no (1)
        - 3.2.12.2.5. Evaporative emissions control system: yes/no (1)
        - 3.2.12.2.6. Particulate trap: yes/no (1)
        - 3.2.12.2.7. On-board-diagnostic (OBD) system: yes/no (1)
        - 3.2.12.2.8. Other systems (description and operation):
    - 3.2.13. Location of the absorption coefficient symbol (compression ignition engines only):...
    - 3.2.15. LPG fuelling system: yes/no (1)
    - 3.2.16. NG fuelling system: yes/no (1)
  - 3.3. Electric motor
    - 3.3.1. Type (winding, excitation): ...
      - 3.3.1.1. Maximum hourly output: ... kW
      - 3.3.1.2. Operating voltage: ... V
    - 3.3.2. Battery
      - 3.3.2.4. Position:
    - 3.6.5. Lubricant temperature
  - 4. TRANSMISSION (v)
    - 4.2. Type (mechanical, hydraulic, electric, etc.):
    - 4.5. Gearbox
      - 4.5.1. Type (manual/automatic/CVT (continuously variable transmission)) (1)

- 4.6. Gear ratios
- 4.7. Maximum vehicle speed (in km/h) (w):
- 5. AXLES
  - 5.1. Description of each axle:
  - 5.2. Make:
  - 5.3. Type: ...
  - 5.4. Position of retractable axle(s):
  - 5.5. Position of loadable axle(s):
- 6. SUSPENSION
  - 6.2. Type and design of the suspension of each axle or...
    - 6.2.1. Level adjustment: yes/no/optional (1)
    - 6.2.3. Air-suspension for driving axle(s): yes/no (1)
      - 6.2.3.1. Suspension of driving axle equivalent to air-suspension: yes/no (1)
      - 6.2.3.2. Frequency and damping of the oscillation of the sprung mass:...
  - 6.6.1. Tyre/Wheel combination(s) (for tyres indicate size designation, minimum load-capacity index,...)
    - 6.6.1.1. Axles
      - 6.6.1.1.1 Axle 1:
      - 6.6.1.1.2 Axle 2:
    - 6.6.1.2. Spare wheel, if any:
  - 6.6.2. Upper and lower limits of rolling radii
    - 6.6.2.1. Axle 1:
    - 6.6.2.2. Axle 2:
- 7. STEERING
  - 7.2. Transmission and control
    - 7.2.1. Type of steering transmission (specify for front and rear, if...)
    - 7.2.2. Linkage to wheels (including other than mechanical means; specify for...)
    - 7.2.3. Method of assistance, if any:
- 8. BRAKES
  - 8.5. Anti-lock braking system: yes/no/optional (1)
  - 8.9. Brief description of the braking systems (according to item 1,6 of...)
  - 8.11. Particulars of the type(s) of endurance braking system(s):
- 9. BODYWORK
  - 9.1. Type of bodywork:
  - 9.3. Occupant doors, latches and hinges
    - 9.3.1. Door configuration and number of doors:
  - 9.9. Devices for indirect vision
    - 9.9.1. Mirrors (state for each mirror):
      - 9.9.1.1. Make:
      - 9.9.1.2. EC type-approval mark:
      - 9.9.1.3. Variant:
      - 9.9.1.4. Drawing(s) for the identification of the mirror showing the position...
      - 9.9.1.5. Details of the method of attachment including that part of...
      - 9.9.1.6. Optional equipment which may affect the rearward field of vision:...
      - 9.9.1.7. A brief description of the electronic components (if any) of...
    - 9.9.2. Devices for indirect vision other than mirrors:

- 9.9.2.1. Type and characteristics (such as a complete description of the...
  - 9.9.2.1.1 In the case of a camera-monitor device, the detection distance...
  - 9.9.2.1.2 Sufficiently detailed drawings to identify the complete device, including installation...
- 9.10. Interior fittings
  - 9.10.3. Seats
    - 9.10.3.1 Number:
    - 9.10.3.2 Position and arrangement:
      - 9.10.3.2.1 Number of seating positions:
      - 9.10.3.2.2 Seat(s) designated for use only when the vehicle is stationary:...
    - 9.10.4.1 Type(s) of head restraints: integrated/detachable/separate (1)
    - 9.10.4.2 Type-approval number(s), if available:
  - 9.12.2. Nature and position of supplementary restraint systems (indicate yes/no/optional):
  - 9.17. Statutory plates (Directive 76/114/EEC)
    - 9.17.1. Photographs and/or drawings of the locations of the statutory plates...
    - 9.17.4. Manufacturer's declaration of compliance with the requirement of item 1.1.1 of...
      - 9.17.4.1 The meaning of characters in the second section and, if...
      - 9.17.4.2 If characters in the second section are used to comply...
  - 9.23. Pedestrian protection
    - 9.23.1. A detailed description, including photographs and/or drawings, of 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...
  - 11.3. Instructions for attachment of the coupling type to the vehicle...
  - 11.4. Information of the fitting of special towing brackets or mounting...
  - 11.5. EC type-approval number(s):
  - 12.7.1. vehicle equipped with a 24 GHz short-range radar equipment: Yes/No (strike...)
  - 12.7.2. vehicle equipped with a 79 GHz short-range radar equipment: Yes/No (strike...)
  - 13. SPECIAL PROVISIONS FOR VEHICLES USED FOR THE CARRIAGE OF PASSENGERS...
    - 13.1. Class of vehicle (Class I, Class II, Class III, Class...
      - 13.1.1. Chassis types where the EC type-approved bodywork can be installed...
    - 13.3. Number of passengers (seated and standing)
      - 13.3.1. Total (N):
      - 13.3.2. Upper deck (Na) (1):
      - 13.3.3. Lower deck (Nb) (1):
    - 13.4. Number of passengers (seated)
      - 13.4.1. Total (A):
      - 13.4.2. Upper deck (Aa) (1):
      - 13.4.3. Lower deck (Ab) (1):
- B: For category O
  - 0. GENERAL
    - 0.1. Make (trade name of manufacturer):

- 0.2. Type:
  - 0.2.1. Commercial name(s) (if available):
- 0.3. Means of identification of type, if marked on the vehicle...
  - 0.3.1. Location of that marking:
- 0.4. Category of vehicle (c):
  - 0.4.1. Classification(s) according to the dangerous goods which the vehicle is...
- 0.5. Name and address of manufacturer:
- 0.8. 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:
  - 1.3. Number of axles and wheels:
    - 1.3.2. Number and position of steered axles:
  - 1.4. Chassis (if any) (overall drawing):
- 2. MASSES AND DIMENSIONS (e) (in kg and mm)
  - 2.1. Wheelbase(s) (fully loaded) (f):
  - 2.3.1. Track of each steered axle (i):
  - 2.3.2. Track of all other axles (i):
  - 2.4. Range of vehicle dimensions (overall)
    - 2.4.2. For chassis with bodywork
      - 2.4.2.1. Length (j):
        - 2.4.2.1.1. Length of the loading area:
      - 2.4.2.2. Width (k):
        - 2.4.2.2.1. Thickness of the walls (in the case of vehicles designed...
      - 2.4.2.3. Height (in running order) (l) (for suspension adjustable for height,...
  - 2.6. Mass of the vehicle with bodywork and, in the case...
    - 2.6.1. Distribution of this mass among the axles and, in the...
  - 2.7. Minimum mass of the completed vehicle as stated by the...
  - 2.8. Technically permissible maximum laden mass stated by the manufacturer (y)...
    - 2.8.1. Distribution of this mass among the axles, and in the...
  - 2.9. Technically permissible maximum mass on each axle:
  - 2.10. Technically permissible maximum mass on each axle group:
  - 2.12. Technically permissible maximum static vertical load/mass on the vehicle's coupling...
    - 2.12.2. Of the semi-trailer or centre-axle trailer:
  - 2.16. Intended registration/in service maximum permissible masses (optional: where these values...
    - 2.16.1. Intended registration/in service maximum permissible laden mass (Several entries possible...
    - 2.16.2. Intended registration/in service maximum permissible mass on each axle and,...
    - 2.16.3. Intended registration/in service maximum permissible mass on each axle group...
    - 2.16.4. Intended registration/in service maximum permissible towable mass (Several entries possible...
    - 2.16.5. Intended registration/in service maximum permissible mass of the combination (Several...
- 5. AXLES
  - 5.1. Description of each axle:

- 5.2. Make:
- 5.3. Type: ...
- 5.4. Position of retractable axle(s):
- 5.5. Position of loadable axle(s):
- 6. SUSPENSION
  - 6.2. Type and design of the suspension of each axle or...
    - 6.2.1. Level adjustment: yes/no/optional (1)
  - 6.6.1. Tyre/wheel combination(s) (for tyres indicate size designation, minimum load-capacity index,...
    - 6.6.1.1. Axles
      - 6.6.1.1.1 Axle 1:
      - 6.6.1.1.2 Axle 2:
    - 6.6.1.2. Spare wheel, if any:
  - 6.6.2. Upper and lower limit of rolling radii
    - 6.6.2.1. Axle 1:
    - 6.6.2.2. Axle 2:
- 7. STEERING
  - 7.2. Transmission and control
    - 7.2.1. Type of steering transmission (specify for front and rear, if...)
    - 7.2.2. Linkage to the wheels (including other than mechanical means; specify...)
    - 7.2.3. Method of assistance, if any:
- 8. BRAKES
  - 8.5. Antilock braking system: yes/no/optional (1)
  - 8.9. Brief description of the braking devices (according to item 1.6 of...)
- 9. BODYWORK
  - 9.1. Type of bodywork:
  - 9.17. Statutory plates (Directive 76/114/EEC)
    - 9.17.1. Photographs and/or drawings of the locations of the statutory plates...
    - 9.17.4. Manufacturer's declaration of compliance with the requirement of item 1.1.1 of...
      - 9.17.4.1 The meaning of characters in the second section and, if...
      - 9.17.4.2 If characters in the second section are used to comply...
- 11. CONNECTIONS BETWEEN TOWING VEHICLES AND TRAILERS AND SEMI-TRAILERS
  - 11.1. Class and type of the coupling device(s) fitted or to...
  - 11.5. EC type-approval number(s):

## PART II

## PART III

## Type-approval numbers

## ANNEX IV

### List of requirements for the purpose of EC type-approval of vehicles

#### PART I

##### List of regulatory acts

Appendix 1 List of requirements for EC type-approval of vehicles belonging to...

#### PART II

## ANNEX V

### Procedures to be followed during EC type-approval of vehicles

1. In the case of an application for a whole vehicle...
2. The number of vehicles to be inspected for the purposes...
3. In the case where no approval certificates for any of...

#### Appendix 1

##### Standards with which the entities referred to in Article 41 have to comply

1. Activities related to testing for type-approval, to be carried out...
  - 1.1. Category A (tests performed in own facilities):
  - 1.2. Category B (supervising of tests performed in the manufacturer's facilities...
2. Activities related to Conformity of Production
  - 2.1. Category C (procedure for the Initial Assessment and surveillance audits of...
  - 2.2. Category D (inspection or testing of production samples or supervision...

#### Appendix 2

##### Procedure for the assessment of the technical services

1. PURPOSE OF THIS APPENDIX
  - 1.1. This Appendix establishes the conditions according to which the assessment...
  - 1.2. These requirements shall apply mutatis mutandis to all technical services,...
2. PRINCIPLES OF ASSESSING
3. SKILLS REQUIRED OF THE AUDITORS
  - 3.1. The assessments may only be conducted by auditors having the...
  - 3.2. The auditors must have been trained specifically for assessment activities...
  - 3.3. Without prejudice to the provisions of points 3.1. and 3.2., the assessment...
4. APPLICATION FOR DESIGNATION
  - 4.1. A duly authorised representative of the applicant technical service must...
  - 4.2. The competent authority must review for adequacy the information supplied...

5. RESOURCE REVIEW
6. SUBCONTRACTING THE ASSESSMENT
  - 6.1. The competent authority may subcontract parts of the assessment to...
  - 6.2. The competent authority must take into account accreditation certificates with...
7. PREPARATION FOR ASSESSMENT
  - 7.1. The competent authority must formally appoint an assessment team. The...
  - 7.2. The competent authority must clearly define the assignment given to...
  - 7.3. The competent authority must agree, together with the technical service...
  - 7.4. The competent authority must ensure that the assessment team is...
8. ON-SITE ASSESSMENT
9. ANALYSIS OF FINDINGS AND ASSESSMENT REPORT
  - 9.1. The assessment team must analyse all relevant information and evidence...
  - 9.2. The competent authority's reporting procedures must ensure that the following...
    - 9.2.1. A meeting must take place between the assessment team and...
    - 9.2.2. A written report on the outcome of the assessment must...
    - 9.2.3. The technical service must be invited to respond to the...
  - 9.3. The competent authority must ensure that the responses of the...
  - 9.4. The assessment report must include, as a minimum
10. GRANTING/CONFIRMING A DESIGNATION
  - 10.1. The approval authority must, without undue delay, make the decision...
  - 10.2. The approval authority must provide a certificate to the technical...
11. REASSESSMENT AND SURVEILLANCE
  - 11.1. Reassessment is similar to an initial assessment except that experience...
  - 11.2. The competent authority must design its plan for reassessment and...
  - 11.3. When, during surveillance or reassessments, nonconformities are identified, the competent...
  - 11.4. When the corrective or improvement actions have not been taken...
  - 11.5. When the competent authority decides to suspend or withdraw the...
12. RECORDS ON DESIGNATED TECHNICAL SERVICES
  - 12.1. The competent authority must maintain records on technical services to...
  - 12.2. The competent authority must keep the records on technical services...
  - 12.3. Records on technical services must include at least:

## ANNEX VI

MODEL Maximum format: A4 (210 × 297 mm)  
EC TYPE-APPROVAL CERTIFICATE

### SECTION I

0.1. Make (trade name of manufacturer):

0.1. Make (trade name of manufacturer):



- 0.2. Type:
  - 0.2.1. Commercial name(s):
- 0.3. Means of identification of type, if marked on the vehicle: ...
  - 0.3.1. Location of that marking:
- 0.4. Category of vehicle:
- 0.5. Name and address of manufacturer of the complete vehicle:
- 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

The undersigned hereby certifies the accuracy of the manufacturer's description...

- 1. For complete and completed vehicles/variants:
- 2. For incomplete vehicles/variants:
- 3. The approval is granted/refused/withdrawn.
- 4. The approval is granted in accordance with Article 20 and the...  
EC VEHICLE TYPE-APPROVAL CERTIFICATE  
Appendix of regulatory acts to which the type of vehicle...(to be filled in only  
in the case of type-approval...

MODEL B (to be used for system type-approval or vehicle type-approval  
with...Maximum format: A4 (210 × 297 mm) EC TYPE-APPROVAL CERTIFICATE  
Stamp of...

EC TYPE-APPROVAL CERTIFICATE

## SECTION I

0.1. Make (trade name of manufacturer):

- 0.1. Make (trade name of manufacturer):
- 0.2. Type:
  - 0.2.1. Commercial name(s) (if available):
- 0.3. Means of identification of type, if marked on the vehicle: ...
  - 0.3.1. Location of that marking:
- 0.4. Category of vehicle:
- 0.5. Name and address of manufacturer:
- 0.8. Name(s) and address(es) of assembly plant(s):
- 0.9. Representative of the manufacturer:

## SECTION II

1. Additional information (where applicable): see Addendum

- 1. 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): see Addendum
- 6. Place:
- 7. Date:
- 8. Signature:

Addendum EC type-approval certificate No ...

1. Additional information
  - 1.1. [...]:
    - 1.1.1. [...]:
2. Type-approval number of each component or separate technical unit installed...
  - 2.1. [...]:
3. Remarks
  - 3.1. [...]:

MODEL C (to be used for component/separate technical unit type-approval)  
 Maximum format: ...Maximum format: A4 (210 × 297 mm) EC TYPE-APPROVAL  
 CERTIFICATE Stamp of...  
 EC TYPE-APPROVAL CERTIFICATE

### SECTION I

0.1. Make (trade name of manufacturer):

- 0.1. Make (trade name of manufacturer):
- 0.2. Type:
- 0.3. Means of identification of type, if marked on the component/separate...
  - 0.3.1. Location of that marking:
- 0.5. Name and address of manufacturer:
- 0.7. In the case of components and separate technical units, location...
- 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 (where applicable): see Addendum

1. 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): see Addendum
6. Place:
7. Date:
8. Signature:

Addendum EC type-approval certificate No ...

1. Additional information
  - 1.1. [...]:
    - 1.1.1. [...]:
2. Restriction of use of the device (if any)
  - 2.1. [...]:
3. Remarks
  - 3.1. [...]:

## ANNEX VII EC TYPE-APPROVAL CERTIFICATE NUMBERING SYSTEM

1. The EC type-approval number shall consist of four sections for...
2. In the case of an EC type-approval for a whole...
3. On the vehicle's statutory plate(s) only, Section 5 shall be omitted...
4. Example of the third system approval (with as yet no extension)...
5. Example of the second extension to the fourth vehicle type-approval...
6. Example of an EC whole vehicle type-approval granted to a...
7. Example of a national type-approval granted to a vehicle produced...
8. Example of the EC type-approval number stamped on the vehicle's...
9. Annex VII does not apply to UNECE Regulations listed in Annex IV...

### Appendix

#### EC component and separate technical unit type-approval mark

1. The EC component and separate technical unit type-approval mark shall...
  - 1.1. a rectangle surrounding the lower-case letter 'e' followed by the...
  - 1.2. In the vicinity of the rectangle the 'base approval number'...
  - 1.3. An additional symbol or symbols located above the rectangle, enabling...
2. The component or separate technical unit type-approval mark is affixed...
3. An example of a component or separate technical unit type-approval...

#### Addendum to appendix 1

#### Example of a component or separate technical unit type-approval mark

Legend: the above component type-approval was issued by  
Belgium under...

NB: The additional symbols are not shown on this example....

## ANNEX VIII TEST RESULTS

1. Results of the sound level tests
2. Results of the exhaust emission tests
  - 2.1. Emissions from motor vehicles Indicate the latest amending regulatory act...

- 2.1.1. Test type I vehicle emissions in the test cycle after...
  - 2.1.2. Test type II emissions data required for roadworthiness:
  - 2.1.3. Result of type III test: ...
  - 2.1.4. Result of type IV test (evaporative test): ... g/test
  - 2.1.5. Result of type V test on durability:
  - 2.1.6. Result of type VI test on emissions by low ambient...
  - 2.1.7. OBD: yes/no
  - 2.2. Emissions from engines for use in vehicles. Indicate and latest...
  - 2.2.1. Results of the ESC test
  - 2.2.2. Result of the ELR test
  - 2.2.3. Result of the ETC test
  - 2.3. Diesel smoke Indicate the latest amending regulatory act applicable to...
  - 2.3.1. Results of the test under free acceleration
3. Results of the CO<sub>2</sub> emission/fuel consumption tests

## ANNEX IX

## EC CERTIFICATE OF CONFORMITY

## PART I

(Maximum format: A4 (210 × 297 mm), or a folder of A4 format)

## Side 1

- 0.1. Make (Trade name of manufacturer):
- 0.2. Type: variant: version:
  - 0.2.1. Commercial name(s):
- 0.4. Category:
- 0.5. Name and address of the manufacturer of the base vehicle:...
- 0.6. Location of the statutory plates:

## Side 2 For complete or completed vehicles of category M1

- 1. Number of axles: ... and wheels: ...
- 2. Powered axles:
- 3. Wheel base: ... mm
- 5. Axle(s) track: 1. ... mm 2. ... mm 3. ....
- 6.1. Length: ... mm
- 7.1. Width: ... mm
- 8. Height: ... mm
- 11. Rear overhang: ... mm
- 12.1. Mass of the vehicle with bodywork in running order: .....
- 14.1. Technically permissible maximum laden mass: ... kg
- 14.2. Distribution of this mass among the axles: 1. ... kg...
- 14.3. Technically permissible mass on each axle: 1. ... kg 2....
- 16. Maximum permissible roof load: ... kg
- 17. Maximum mass of trailer (braked): ... kg; (unbraked): ... kg...
- 18. Maximum mass of combination: ... kg
- 19.1. Maximum vertical load at the coupling point for a trailer:...
- 20. Engine manufacturer:
- 21. Engine code as marked on the engine:
- 22. Working principle:
  - 22.1. Direct injection: yes/no

23. Number and arrangement of cylinders:
24. Capacity: ... cm<sup>3</sup>
25. Fuel:
26. Maximum net power: ... kW at ... min<sup>-1</sup>
27. Clutch (type):
28. Gearbox (type):
29. Gear ratios: 1. ... 2. ... 3. ... 4. ....
30. Final drive ratio:
32. Tyres and wheels Axle 1: ... Axle 2: ... Axle...
34. Steering, method of assistance:
35. Brief description of the braking system:
37. Type of body:
38. Colour of vehicle:
41. Number and configuration of doors:
- 42.1. Number and position of seats:
- 43.1. EC type-approval mark of coupling device if fitted:
44. Maximum speed: ... km/h.
45. Sound level
- 46.1. Exhaust emissions:
- 46.2. CO<sub>2</sub> emissions/fuel consumption:
47. Fiscal power or national code number(s) if applicable:
50. Remarks:
51. Exemptions:

Side 2 For complete or completed vehicles of categories M2 and M3

1. Number of axles: ... and wheels: ...
2. Powered axles: ...
3. Wheelbase: ... mm
5. Axle(s) track: 1. ... mm 2. ... mm 3. ....
- 6.1. Length: ... mm
- 6.3. Distance between the front end of the vehicle and the...
- 7.1. Width: ... mm
8. Height: ... mm
- 10.1. Ground area covered by the vehicle: ... m<sup>2</sup>
11. Rear overhang: ... mm
- 12.1. Mass of the vehicle with bodywork in running order: .....
- 14.1. Technically permissible maximum laden mass: ... kg
- 14.2. Distribution of this mass among the axles: 1. ... kg...
- 14.4. Technically permissible mass on each axle/axle group: 1. ... kg...
16. Maximum permissible roof load: ... kg
17. Maximum mass of trailer (braked): ... kg; (unbraked): ... kg...
18. Technically permissible maximum laden mass of combination ... kg
- 19.1. Technically permissible maximum mass on the coupling point of a...
20. Engine manufacturer:
21. Engine code as marked on the engine:
22. Working principle:
  - 22.1. Direct injection: yes/no
23. Number and arrangement of cylinders:
24. Capacity: ... cm<sup>3</sup>
25. Fuel:
26. Maximum net power: ... kW at ... min<sup>-1</sup>
27. Clutch (type):
28. Gearbox (type):

- 29. Gear ratios: 1. ... 2. ... 3. ... 4. ....
- 30. Final drive ratio: ...
- 32. Tyres and wheels: Axle 1: ... Axle 2: ... Axle...
- 33.1. Drive axle(s) fitted with air suspension or equivalent: yes/no
- 34. Steering, method of assistance: ...
- 35. Brief description of the braking system:
- 36. Pressure in feed line for trailer braking system: ... bar...
- 37. Type of body:
- 41. Number and configuration of doors:
- 42.2. Number of seating places (excluding the driver):
- 42.3. Number of standing places:
- 43.1. EC type-approval mark of coupling device, if fitted:
- 44. Maximum speed: ... km/h
- 45. Sound level
- 46.1. Exhaust emissions:
- 47. Fiscal power or national code number(s), if applicable:
- 50. Remarks:
- 51. Exemptions:

Side 2 For complete or completed vehicles of categories N1, N2 and N3

- 1. Number of axles: ... and wheels: ...
- 2. Powered axles: ...
- 3. Wheelbase: ... mm
- 4.1. Fifth wheel lead (maximum and minimum in case of an...
- 5. Axle(s) track: 1. ... mm 2. ... mm 3. ....
- 6.1. Length: ... mm
- 6.3. Distance between the front end of the vehicle and the...
- 6.5. Length of the loading area: ... mm
- 7.1. Width: ... mm
- 8. Height: ... mm
- 10.2. Ground area covered by the vehicle (N2 and N3 only):...
- 11. Rear overhang: ... mm
- 12.1. Mass of the vehicle with bodywork in running order: .....
- 14.1. Technically permissible maximum laden mass: ... kg
- 14.2. Distribution of this mass among the axles: 1. ... kg...
- 14.4. Technically permissible mass on each axle/axle group: 1. ... kg...
- 15. Position of retractable or loadable axle(s): ...
- 17. Technically permissible maximum towable mass of the motor vehicle in...
  - 17.1. Drawbar trailer:
  - 17.2. Semi-trailer:
  - 17.3. Centre-axle trailer:
  - 17.4. Technically permissible maximum mass of trailer (unbraked): ... kg
- 18. Technically permissible maximum laden mass of combination: ... kg
- 19.1. Technically permissible maximum mass on the coupling point of a...
- 20. Engine manufacturer:
- 21. Engine code as marked on the engine:
- 22. Working principle:
  - 22.1. Direct injection: yes/no
- 23. Number and arrangement of cylinders:
- 24. Capacity: ... cm<sup>3</sup>
- 25. Fuel:
- 26. Maximum net power: ... kW at ... min<sup>-1</sup>
- 27. Clutch (type):

28. Gearbox (type):
29. Gear ratios: 1. ... 2. ... 3. ... 4. ....
30. Final drive ratio:
32. Tyres and wheels: Axle 1: ... Axle 2: ... Axle...
- 33.1. Drive axle(s) fitted with air suspension or equivalent: yes/no
34. Steering, method of assistance:
35. Brief description of the braking system:
36. Pressure in feed line for trailer braking system: ... bar...
37. Type of body:
38. Colour of vehicle (N1 only):
39. Tank capacity (Tanker vehicle only): ... m<sup>3</sup>
40. Maximum crane moment capacity: ... kNm.
41. Number and configuration of doors:
- 42.1. Number and position of seats:
- 43.1. EC type-approval mark of coupling device, if fitted:
44. Maximum speed: ... km/h
45. Sound level
- 46.1. Exhaust emissions:
- 46.2. CO<sub>2</sub> emissions/fuel consumption (N1 only):
47. Fiscal power or national code number(s), if applicable:
- 48.1. EC type-approved according to the design requirements for transporting dangerous...
- 48.2. EC type-approved according to the design requirements for transporting certain...
50. Remarks:
51. Exemptions:

Side 2 For complete or completed vehicles of categories O1, O2, O3 and O4...

1. Number of axles: ... and wheels: ...
3. Wheelbase: ... mm
5. Axle(s) track: 1. ... mm 2. ... mm 3. ....
- 6.1. Length: ... mm
- 6.4. Distance between the centre of the coupling device and the...
- 6.5. Length of the loading area: ... mm
- 7.1. Width: ... mm
8. Height: ... mm
- 10.3. Ground area covered by the vehicle (O2, O3 and O4...
11. Rear overhang: ... mm
- 12.1. Mass of the vehicle with bodywork in running order: .....
- 14.1. Technically permissible maximum laden mass: ... kg
- 14.5. Distribution of this mass among the axles and, in the...
- 14.6. Technically permissible mass on each axle/axle group: 1. ... kg...
15. Position of retractable or loadable axle(s): ...
- 19.2. For coupling devices of classes B, D, E and H:...
32. Tyres and wheels: Axle 1: ... Axle 2: ... Axle...
- 33.2. Axle(s) fitted with air suspension or equivalent: yes/no
34. Steering, method of assistance:
35. Brief description of the braking system:
37. Type of body:
39. Tank capacity (Tanker vehicle only): ... m<sup>3</sup>
- 43.2. Approval mark of coupling device:
47. Fiscal power or national code number(s), if applicable:

- 48.1. EC type-approved according to the design requirements for transporting dangerous...
- 48.2. EC type-approved according to the design requirements for transporting certain...
- 50. Remarks:
- 51. Exemptions:

## PART II

## EC CERTIFICATE OF CONFORMITY

## Side 1

- 0.1. Make (Trade name of manufacturer):
- 0.2. Type: Variant: Version:
  - 0.2.1. Commercial name(s) (if available):
- 0.4. Category:
- 0.5. Name and address of the manufacturer of the base vehicle:...
- 0.6. Location of the statutory plates:

## Side 2 For incomplete vehicles of category M1

- 1. Number of axles: ... and wheels: ...
- 2. Powered axles:
- 3. Wheel base: ... mm
- 5. Axle(s) track: 1. ... mm 2. ... mm 3. ....
- 6.2. Maximum permissible length of the completed vehicle: ... mm
- 7.2. Maximum permissible width of the completed vehicle: ... mm
- 9.1. Height of the centre of gravity (c.o.g.): ... mm
- 9.2. Maximum permissible height of the c.o.g. of the completed vehicle:...
- 9.3. Minimum permissible height of the c.o.g. of the completed vehicle:...
- 13.1. Minimum permissible mass of the completed vehicle: ... kg
- 13.2. Distribution of this mass among the axles: 1. ... kg...
- 14.1. Technically permissible maximum laden mass: ... kg
- 14.2. Distribution of this mass among the axles: 1. ... kg...
- 14.3. Technically permissible mass on each axle: 1. ... kg 2....
- 16. Maximum permissible roof load: ... kg
- 17. Maximum mass of trailer (braked): ... kg (unbraked): ... kg...
- 18. Maximum mass of combination: ... kg
- 19.1. Maximum vertical load at the coupling point for a trailer:...
- 20. Engine manufacturer:
- 21. Engine code as marked on the engine:
- 22. Working principle:
  - 22.1. Direct injection: yes/no
- 23. Number and arrangement of cylinders:
- 24. Capacity: ... cm<sup>3</sup>
- 25. Fuel:
- 26. Maximum net power: ... kW at ... min<sup>-1</sup>
- 27. Clutch (type):
- 28. Gearbox (type):
- 29. Gear ratios: 1. ... 2. ... 3. ... 4. ....
- 30. Final drive ratio:
- 32. Tyres and wheels: Axle 1: ... Axle 2: ... Axle...
- 34. Steering, method of assistance:
- 35. Brief description of the braking system:
- 41. Number and configuration of doors:



- 42.1. Number and position of seats:
- 43.1. EC type-approval mark of coupling device, if fitted:
- 43.3. Types or classes of coupling devices which can be fitted:...
- 43.4. Characteristic values: D .../V .../S .../U ...
- 45. Sound level:
- 46.1. Exhaust emissions:
- 47. Fiscal power or national code number(s) if applicable:
- 49. Chassis designed for off-road vehicles only: yes/no
- 50. Remarks:
- 51. Exemptions:

Side 2 For incomplete vehicles of categories M2 and M3

- 1. Number of axles: ... and wheels: ...
- 2. Powered axles: ...
- 3. Wheelbase: ... mm
- 5. Axle(s) track: 1. ... mm 2. ... mm 3. ....
- 6.2. Maximum permissible length of the completed vehicle: ... mm
- 6.3. Distance between the front end of the vehicle and the...
- 7.2. Maximum permissible width of the completed vehicle: ... mm
- 9.1. Height of the centre of gravity (c.o.g.): ... mm
- 9.2. Maximum permissible height of the c.o.g. of the completed vehicle:...
- 9.3. Minimum permissible height of the c.o.g. of the completed vehicle:...
- 12.3. Mass of the bare chassis: ... kg
- 13.1. Minimum permissible mass of the completed vehicle: ... kg
- 13.2. Distribution of this mass among the axles: 1. ... kg...
- 14.1. Technically permissible maximum laden mass: ... kg
- 14.2. Distribution of this mass among the axles: 1. ... kg...
- 14.4. Technically permissible mass on each axle/axle group: 1. ... kg...
- 16. Maximum permissible roof load: ... kg
- 17. Maximum mass of trailer (braked): ... kg; (unbraked): ... kg...
- 18. Technically permissible maximum laden mass of combination ... kg
- 19.1. Technically permissible maximum mass on the coupling point of a...
- 20. Engine manufacturer:
- 21. Engine code as marked on the engine:
- 22. Working principle:
  - 22.1. Direct injection: yes/no
- 23. Number and arrangement of cylinders:
- 24. Capacity: ... cm<sup>3</sup>
- 25. Fuel:
- 26. Maximum net power: ... kW at ... min<sup>-1</sup>
- 27. Clutch (type):
- 28. Gearbox (type):
- 29. Gear ratios: 1. ... 2. ... 3. ... 4. ....
- 30. Final drive ratio: ...
- 32. Tyres and wheels: Axle 1: ... Axle 2: ... Axle...
- 33.1. Drive axle(s) fitted with air suspension or equivalent: yes/no
- 34. Steering, method of assistance:
- 35. Brief description of the braking system:
- 36. Pressure in feed line for trailer braking system: ... bar...
- 41. Number and configuration of doors:
- 43.1. Approval mark of coupling device, if fitted: ...
- 43.3. Types or classes of coupling devices which can be fitted:...
- 43.4. Characteristic values: D .../V .../S .../U ...

- 45. Sound level:
- 46.1. Exhaust emissions:
- 47. Fiscal power or national code number(s), if applicable:
- 49. Chassis designed for off-road vehicles only: yes/no
- 50. Remarks:
- 51. Exemptions:

Side 2 For incomplete vehicles of categories N1, N2 and N3

- 1. Number of axles: ... and wheels: ...
- 2. Powered axles: ...
- 3. Wheelbase: ... mm
- 4.2. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum): .....
- 5. Axle(s) track: 1. ... mm 2. ... mm 3. ....
- 6.2. Maximum permissible length of the completed vehicle: ... mm
- 6.3. Distance between the front end of the vehicle and the...
- 7.2. Maximum permissible width of the completed vehicle: ... mm
- 9.1. Height of the centre of gravity (c.o.g.): ... mm
- 9.2. Maximum permissible height of the c.o.g. of the completed vehicle:...
- 9.3. Minimum permissible height of the c.o.g. of the completed vehicle:...
- 12.3. Mass of the bare chassis: ... kg
- 13.1. Minimum permissible mass of the completed vehicle: ... kg
- 13.2. Distribution of this mass among the axles: 1. ... kg...
- 14.1. Technically permissible maximum laden mass: ... kg
- 14.2. Distribution of this mass among the axles: 1. ... kg...
- 14.4. Technically permissible mass on each axle/axle group: 1. ... kg...
- 15. Position of retractable or loadable axle(s): ...
- 17. Technically permissible maximum towable mass of the motor vehicle in...
  - 17.1. Drawbar trailer:
  - 17.2. Semi-trailer:
  - 17.3. Centre-axle trailer: ...
  - 17.4. Maximum mass of trailer (unbraked): ... kg
- 18. Maximum mass of combination: ... kg
- 19.1. Maximum vertical load at the coupling point for a trailer:...
- 20. Engine manufacturer:
- 21. Engine code as marked on the engine:
- 22. Working principle:
  - 22.1. Direct injection: yes/no
- 23. Number and arrangement of cylinders:
- 24. Capacity: ... cm<sup>3</sup>
- 25. Fuel:
- 26. Maximum net power: ... kW at ... min<sup>-1</sup>
- 27. Clutch (type):
- 28. Gearbox (type):
- 29. Gear ratios: 1. ... 2. ... 3. ... 4. ....
- 30. Final drive ratio:
- 32. Tyres and wheels: Axle 1: ... Axle 2: ... Axle...
- 33.1. Drive axle(s) fitted with air suspension or equivalent: yes/no
- 34. Steering, method of assistance:
- 35. Brief description of the braking system:
- 36. Pressure in feed line for trailer braking system: ... bar...
- 41. Number and configuration of doors:
- 42.1. Number and position of seats:
- 43.1. EC type-approval mark of coupling device, if fitted:

- 43.3. Types or classes of coupling devices which can be fitted:...
- 43.4. Characteristic values: D .../V .../S .../U ...
- 45. Sound level:
- 46.1. Exhaust emissions:
- 47. Fiscal power or national code number(s), if applicable:
- 48.1. EC type-approved according to the design requirements for transporting dangerous...
- 48.2. EC type-approved according to the design requirements for transporting certain...
- 49. Chassis designed for off-road vehicles only: yes/no
- 50. Remarks:
- 51. Exemptions:

Side 2 For incomplete vehicles of categories O1, O2, O3 and O4

- 1. Number of axles: ... and wheels ...
- 3. Wheelbase: ... mm
- 5. Axle(s) track: 1. ... mm 2. ... mm 3. ....
- 6.2. Maximum permissible length of the completed vehicle: ... mm
- 6.4. Distance between the centre of the coupling device and the...
- 7.2. Maximum permissible width of the completed vehicle: ... mm
- 9.1. Height of the centre of gravity (c.o.g.): ... mm
- 9.2. Maximum permissible height of the c.o.g. of the completed vehicle:...
- 9.3. Minimum permissible height of the c.o.g. of the completed vehicle:...
- 12.3. Mass of the bare chassis: ... kg
- 13.1. Minimum permissible mass of the completed vehicle: ... kg
- 13.2. Distribution of this mass among the axles: 1. ... kg...
- 14.1. Technically permissible maximum laden mass: ... kg
- 14.5. Distribution of this mass among the axles and, in the...
- 14.6. Technically permissible mass on each axle/axle group: 1. ... kg...
- 15. Position of retractable or loadable axle(s): ...
- 19.2. For coupling devices of classes B, D, E and H:...
- 32. Tyres and wheels: Axle 1: ... Axle 2: ... Axle...
- 33.2. Axle(s) fitted with air suspension or equivalent: yes/no
- 34. Steering, method of assistance:
- 35. Brief description of the braking system:
- 43.2. EC type-approval mark of coupling device:
- 43.3. Types or classes of coupling devices which can be fitted:...
- 43.4. Characteristic values: D .../V .../S .../U ...
- 47. Fiscal power or national code number(s), if applicable:
- 48.1. EC type-approved according to the design requirements for transporting dangerous...
- 48.2. EC type-approved according to the design requirements for transporting certain...
- 50. Remarks:
- 51. Exemptions:

## ANNEX X

### CONFORMITY OF PRODUCTION PROCEDURES

#### 0. OBJECTIVES

1. INITIAL ASSESSMENT
  - 1.1. The EC type-approval authority of a Member State must verify,...
  - 1.2. The requirements in point 1.1 shall be verified to the satisfaction...
    - 1.2.1. The actual initial assessment and/or verification of product conformity arrangements...
      - 1.2.1.1. When considering the extent of the initial assessment to be...
    - 1.2.2. The actual initial assessment and/or verification of product conformity arrangements...
    - 1.2.3. The EC type-approval authority must also accept the manufacturer's suitable...
  - 1.3. For the purpose of the whole vehicle EC type-approval, the...
2. PRODUCT CONFORMITY ARRANGEMENTS
  - 2.1. Every vehicle, system, component or separate technical unit approved pursuant...
  - 2.2. The EC type-approval authority of a Member State, at the...
  - 2.3. The holder of the EC type-approval must, in particular:
    - 2.3.1. ensure the existence and application of procedures for effective control...
    - 2.3.2. have access to the testing or other appropriate equipment necessary...
    - 2.3.3. ensure that test or check results data are recorded and...
    - 2.3.4. analyse the results of each type of test or check,...
    - 2.3.5. ensure that for each type of product, at least the...
    - 2.3.6. ensure that any set of samples or test pieces, giving...
    - 2.3.7. in the case of whole-vehicle EC type-approval, the checks referred...
3. CONTINUED VERIFICATION ARRANGEMENTS
  - 3.1. The authority which has granted EC type-approval may at any...
    - 3.1.1. The normal arrangements shall be to monitor the continued effectiveness...
      - 3.1.1.1. Surveillance activities carried out by a certification body (qualified or...
      - 3.1.1.2. The normal frequency of verifications by the EC type-approval authority...
  - 3.2. At every review, records of tests or checks and records...
  - 3.3. Where the nature of the test is appropriate, the inspector...
  - 3.4. Where the level of control appears unsatisfactory, or when it...
  - 3.5. In cases where unsatisfactory results are found during an inspection...

## ANNEX XI

### NATURE OF AND PROVISIONS FOR SPECIAL PURPOSE VEHICLES

Appendix 1 Motor-Caravans, Ambulances and Hearses

Appendix 2 Armoured Vehicles

Appendix 3 Wheel-chair Accessible Vehicles

Appendix 4 Other Special Purpose Vehicles (including Trailer Caravans)

Appendix 5 Mobile Cranes

## Meaning of letters

### ANNEX XII

#### SMALL SERIES AND END-OF-SERIES LIMITS

- A. SMALL SERIES LIMITS
  - 1. The number of units of one type of vehicle to...
  - 2. The number of units of one type to be registered,...
- B. END-OF-SERIES LIMITS

### ANNEX XIII

#### LIST OF PARTS OR EQUIPMENT WHICH ARE CAPABLE OF POSING A SIGNIFICANT RISK TO THE CORRECT FUNCTIONING OF SYSTEMS THAT ARE ESSENTIAL FOR THE SAFETY OF THE VEHICLE OR ITS ENVIRONMENTAL PERFORMANCE, THEIR PERFORMANCE REQUIREMENTS, APPROPRIATE TEST PROCEDURES, MARKING AND PACKAGING PROVISIONS

- I. Parts or equipment having a significant impact on vehicle safety...
- II. Parts or equipment having a significant impact on the environmental...

### ANNEX XIV

#### LIST OF EC TYPE-APPROVALS ISSUED PURSUANT TO REGULATORY ACTS

Type-approval authority stamp  
List number:  
Covering the period: ... to ...  
The following information in respect of each EC type-approval  
granted, ...  
Manufacturer:  
EC type-approval number:  
Reason for extension (where applicable):  
Make:  
Type:  
Date of issue:  
First date of issue (in the case of extensions):

## ANNEX XV

LIST OF THE REGULATORY ACTS FOR WHICH A  
MANUFACTURER MAY BE DESIGNATED AS TECHNICAL SERVICE

## ANNEX XVI

LIST OF THE REGULATORY ACTS FOR WHICH VIRTUAL TESTING METHODS  
MAY BE USED BY A MANUFACTURER OR A TECHNICAL SERVICE

## Appendix 1

## GENERAL CONDITIONS REQUIRED FROM VIRTUAL TESTING METHODS

1. Virtual test pattern
2. Fundamentals of computer simulation and calculation
  - 2.1. Mathematical model
  - 2.2. Validation of the model
  - 2.3. Documentation

## Appendix 2

## SPECIFIC CONDITIONS CONCERNING VIRTUAL TESTING METHODS

## ANNEX XVII

## PROCEDURES TO BE FOLLOWED DURING MULTI-STAGE EC TYPE-APPROVAL

1. GENERAL
  - 1.1. The satisfactory operation of the process of multi-stage EC type-approval...
  - 1.2. EC type-approvals in accordance with this Annex are granted on...
  - 1.3. Each manufacturer in a multi-stage EC type-approval process is responsible...
2. PROCEDURES
3. The number of vehicles to be inspected for the purposes...
4. IDENTIFICATION OF THE VEHICLE
  - 4.1. Vehicle identification number
  - 4.2. Additional manufacturer's plate

## Appendix

## MODEL OF THE MANUFACTURER'S ADDITIONAL PLATE

The example below is given as a guide only.

ANNEX XVIII  
CERTIFICATE OF ORIGIN OF THE VEHICLE

- 0.1. Make (trade name of manufacturer):
- 0.2. Type of vehicle:
  - 0.2.1. Commercial name(s):
- 0.3. Means of identification of type:
- 0.6. Vehicle identification number:
- 0.8. Address(es) of assembly plant(s):

ANNEX XIX  
TIMETABLE FOR THE ENFORCEMENT OF THIS  
DIRECTIVE IN RESPECT OF TYPE-APPROVAL

ANNEX XX  
TIME-LIMITS FOR THE TRANSPOSITION OF  
REPEALED DIRECTIVES INTO NATIONAL LAW

PART A  
Directive 70/156/EEC and its successive amending acts

PART B  
Time-limits for transposition into national laws

ANNEX XXI  
CORRELATION TABLE

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*Status: This is the original version (as it was originally adopted).*

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- (1) [OJ C 108, 30.4.2004, p. 29.](#)
- (2) Opinion of the European Parliament of 11 February 2004 ([OJ C 97 E, 22.4.2004, p. 370](#)), Council Common Position of 11 December 2006 ([OJ C 64 E, 20.3.2007, p. 1](#)), Position of the European Parliament of 10 May 2007 (not yet published in the Official Journal) and Council Decision of 23 July 2007.
- (3) [OJ L 42, 23.2.1970, p. 1.](#) Directive as last amended by Regulation (EC) No 715/2007 of the European Parliament and of the Council ([OJ L 171, 29.6.2007, p. 1](#)).
- (4) [OJ L 225, 10.8.1992, p. 1.](#)
- (5) [OJ L 184, 17.7.1999, p. 23.](#) Decision as amended by Decision 2006/512/EC ([OJ L 200, 22.7.2006, p. 11](#)).
- (6) [OJ L 346, 17.12.1997, p. 78.](#)
- (7) [OJ L 11, 15.1.2002, p. 4.](#)
- (8) [OJ L 171, 29.6.2007, p. 1.](#)
- (9) [OJ C 321, 31.12.2003, p. 1.](#)