

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components and separate technical units intended for such vehicles (Framework Directive) (Text with EEA relevance) (repealed)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

All information documents in this directive and in separate directives...

The following information shall be supplied in triplicate and include...

If the systems, components or separate technical units referred to...

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...
 - 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 : ...
 - 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. (Not attributed)
 - 0.8. Name(s) and address(es) of assembly plant(s): ...
 - 0.9. Name and address of the manufacturer's representative (if any):
1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE
 - 1.1. Photographs and/or drawings of a representative vehicle: ...
 - 1.2. Dimensional drawing of the whole vehicle: ...
 - 1.3. Number of axles and wheels: ...
 - 1.3.1. Number and position of axles with twin wheels: ...
 - 1.3.2. Number and position of steered axles: ...
 - 1.3.3. Powered axles (number, position, interconnection): ...
 - 1.4. Chassis (if any) (overall drawing): ...
 - 1.5. Material used for the side-members : ...
 - 1.6. Position and arrangement of the engine: ...
 - 1.7. Driving cab (forward control or bonneted) : ...
 - 1.8. Hand of drive: left/right .
 - 1.8.1. Vehicle is equipped to be driven in right/left hand traffic....
 - 1.9. Specify if the motor vehicle is intended to tow semi-trailers...
2. MASSES AND DIMENSIONS

- 2.1. Wheelbase(s) (fully loaded) :
 - 2.1.1. Two-axle vehicles: ...
 - 2.1.1.1. Vehicles with three or more axles
 - 2.1.1.1.1. Axle spacing between consecutive axles going from the foremost to...
 - 2.1.1.1.2. Total axle spacing: ...
- 2.2. Fifth wheel
 - 2.2.1. In the case of semi-trailers
 - 2.2.1.1. Distance between the axis of the fifth wheel kingpin and...
 - 2.2.1.2. Maximum distance between the axis of the fifth wheel kingpin...
 - 2.2.1.3. Semi-trailer special wheelbase (as defined in Section 7.6.1.2 of Annex...
 - 2.2.2. In the case of semi-trailer towing vehicles
 - 2.2.2.1. Fifth wheel lead (maximum and minimum; indicate the permissible values...
 - 2.2.2.2. Maximum height of the fifth wheel (standardised) : ...
- 2.3. Axle track(s) and width(s)
 - 2.3.1. Track of each steered axle : ...
 - 2.3.2. Track of all other axles : ...
 - 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 : ...
 - 2.4.1.1.1. Maximum permissible length: ...
 - 2.4.1.1.2. Minimum permissible length: ...
 - 2.4.1.1.3. In the case of trailers, maximum permissible drawbar length :...
 - 2.4.1.2. Width : ...
 - 2.4.1.2.1. Maximum permissible width: ...
 - 2.4.1.2.2. Minimum permissible width: ...
 - 2.4.1.3. Height (in running order) (for suspensions adjustable for height, indicate...
 - 2.4.1.4. Front overhang : ...
 - 2.4.1.4.1. Approach angle : degrees.
 - 2.4.1.5. Rear overhang : ...
 - 2.4.1.5.1. Departure angle : degrees.
 - 2.4.1.5.2. Minimum and maximum permissible overhang of the coupling point :...
 - 2.4.1.6. Ground clearance (as defined in point 4.5 of Section A...
 - 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 : 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 : ...
 - 2.4.2.1.1. Length of the loading area: ...
 - 2.4.2.1.2. In the case of trailers, maximum permissible drawbar length :...
 - 2.4.2.2. Width : ...
 - 2.4.2.2.1. Thickness of the walls (in the case of vehicles designed...
 - 2.4.2.3. Height (in running order) (for suspensions adjustable for height, indicate...
 - 2.4.2.4. Front overhang : ...
 - 2.4.2.4.1. Approach angle : degrees.

- 2.4.2.5. Rear overhang : ...
- 2.4.2.5.1 Departure angle : degrees.
- 2.4.2.5.2 Minimum and maximum permissible overhang of the coupling point : ...
- 2.4.2.6. Ground clearance (as defined in point 4.5 of Section A...
- 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 : degrees.
- 2.4.2.8. Extreme permissible positions of the centre of gravity of the...
- 2.4.2.9. Position of centre of gravity of the vehicle (M 2...
- 2.4.3. For bodywork approved without chassis (vehicles M 2 and M...
- 2.4.3.1. Length : ...
- 2.4.3.2. Width : ...
- 2.4.3.3. Nominal height (in running order) on intended chassis type(s) (for...
- 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 in running order
- 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 : ...
- 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 to the wheel base:...
- 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 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. Rear swing-out (Section 7.6.2. and 7.6.3. of Annex I to...
- 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
- 3.1. Manufacturer of the engine: ...
 - 3.1.1. Manufacturer's engine code (as marked on the engine or other...
 - 3.1.2. Approval number (if appropriate) including fuel identification marking: ...
 - 3.2. Internal combustion engine
 - 3.2.1. Specific engine information
 - 3.2.1.1. Working principle: positive ignition/compression ignition
 - 3.2.1.2. Number and arrangement of cylinders: ...
 - 3.2.1.2.1 Bore : mm
 - 3.2.1.2.2 Stroke : mm
 - 3.2.1.2.3 Firing order: ...
 - 3.2.1.3. Engine capacity : cm³
 - 3.2.1.4. Volumetric compression ratio : ...
 - 3.2.1.5. Drawings of combustion chamber, piston crown and, in the case...
 - 3.2.1.6. Normal engine idling speed : min⁻¹
 - 3.2.1.6.1 High engine idling speed : min⁻¹
 - 3.2.1.7. Carbon monoxide content by volume in the exhaust gas with...
 - 3.2.1.8. Maximum net power : ... kW at ... min⁻¹...
 - 3.2.1.9. Maximum permitted engine speed as prescribed by the manufacturer:
 - 3.2.1.10 Maximum net torque : ... Nm at ... min⁻¹...
 - 3.2.1.11 (Euro VI only) Manufacturer references of the Documentation package required...
 - 3.2.2. Fuel
 - 3.2.2.1. Light-duty vehicles: Diesel/Petrol/LPG/NG or Biomethane/Ethanol (E85)/Biodiesel/Hydrogen
 - 3.2.2.2. Heavy duty vehicles Diesel/Petrol/LPG/NG-H/NG-L/NG-HL/Ethanol (ED95)/Ethanol (E85)
 - 3.2.2.2.1 (Euro VI only) Fuels compatible with use by the engine...
 - 3.2.2.3. Fuel tank inlet: restricted orifice/label
 - 3.2.2.4. Vehicle fuel type: Mono fuel, Bi fuel, Flex fuel
 - 3.2.2.5. Maximum amount of biofuel acceptable in fuel (manufacturer's declared value):...
 - 3.2.3. Fuel tank(s)
 - 3.2.3.1. Service fuel tank(s)
 - 3.2.3.1.1 Number and capacity of each tank: ...
 - 3.2.3.1.2 Material: ...
 - 3.2.3.1.3 Drawing and technical description of the tank(s) with all connections...
 - 3.2.3.1.4 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 and capacity of each tank: ...
 - 3.2.3.2.2 Material: ...
 - 3.2.3.2.3 Drawing and technical description of the tank(s) with all connections...
 - 3.2.3.2.4 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
- 3.2.4.2. By fuel injection (compression ignition only): yes/no
- 3.2.4.2.1 System description: ...
- 3.2.4.2.2 Working principle: direct injection/pre-chamber/swirl chamber
- 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 : mm³/stroke or cycle...
- 3.2.4.2.3.4 Static injection timing : ...
- 3.2.4.2.3.5 Injection advance curve : ...
- 3.2.4.2.3.6 Calibration procedure: test bench/engine
- 3.2.4.2.4 Governor
- 3.2.4.2.4.1 Type: ...
- 3.2.4.2.4.2 Cut-off point
- 3.2.4.2.4.3 Speed at which cut-off starts under load: min⁻¹...
- 3.2.4.2.4.4 Maximum no-load speed: min⁻¹
- 3.2.4.2.4.5 Idling speed: min⁻¹
- 3.2.4.2.5 Injection piping (heavy-duty vehicles only)
- 3.2.4.2.5.1 Length: mm
- 3.2.4.2.5.2 Internal diameter: mm
- 3.2.4.2.6 Common rail, make and type: ...
- 3.2.4.2.6.1 Injector(s)
- 3.2.4.2.6.1.1 Make(s): ...
- 3.2.4.2.6.1.2 Type(s): ...
- 3.2.4.2.6.2 Opening pressure : ... kPa or characteristic diagram :
- 3.2.4.2.7 Cold start system
- 3.2.4.2.7.1 Make(s): ...
- 3.2.4.2.7.2 Type(s): ...
- 3.2.4.2.7.3 Description: ...
- 3.2.4.2.8 Auxiliary starting aid
- 3.2.4.2.8.1 Make(s): ...
- 3.2.4.2.8.2 Type(s): ...
- 3.2.4.2.8.3 System description: ...
- 3.2.4.2.9 Electronic controlled injection: yes/no
- 3.2.4.2.9.1 Make(s): ...
- 3.2.4.2.9.2 Type(s):
- 3.2.4.2.9.3 Description of the system (in the case of systems other...
- 3.2.4.2.9.4 Make and type of the control unit (ECU): ...
- 3.2.4.2.9.5 Make and type of the fuel regulator: ...
- 3.2.4.2.9.6 Make and type of the air-flow sensor: ...
- 3.2.4.2.9.7 Make and type of fuel distributor: ...
- 3.2.4.2.9.8 Make and type of the throttle housing: ...
- 3.2.4.2.9.9 Make and type of water temperature sensor: ...
- 3.2.4.2.9.10 Make and type of air temperature sensor: ...
- 3.2.4.2.9.11 Make and type of air pressure sensor: ...
- 3.2.4.2.9.12 Software calibration number(s): ...
- 3.2.4.3. By fuel injection (positive ignition only): yes/no
- 3.2.4.3.1 Working principle: intake manifold (single-/multi-point/direct injection /other (specify): ...
- 3.2.4.3.2 Make(s): ...
- 3.2.4.3.3 Type(s): ...

- 3.2.4.3.4 System description (In the case of systems other than continuous...
- 3.2.4.3.4 Make and type of the control unit (ECU): ...
- 3.2.4.3.4 Make and type of fuel regulator: ...
- 3.2.4.3.4 Make and type of air-flow sensor: ...
- 3.2.4.3.4 Make and type of fuel distributor: ...
- 3.2.4.3.4 Make and type of pressure regulator: ...
- 3.2.4.3.4 Make and type of micro switch: ...
- 3.2.4.3.4 Make and type of idling adjustment screw: ...
- 3.2.4.3.4 Make and type of throttle housing: ...
- 3.2.4.3.4 Make and type of water temperature sensor: ...
- 3.2.4.3.4 Make and type of air temperature sensor: ...
- 3.2.4.3.4 Make and type of air pressure sensor: ...
- 3.2.4.3.4 Software calibration number(s): ...
- 3.2.4.3.5 Injectors: opening pressure : kPa or characteristic diagram:
- 3.2.4.3.5 Make: ...
- 3.2.4.3.5 Type: ...
- 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 : ...
- 3.2.4.4. Feed pump
- 3.2.4.4.1 Pressure : ... kPa or characteristic diagram : ...
- 3.2.5. Electrical system
- 3.2.5.1. Rated voltage: V, positive/negative ground
- 3.2.5.2. Generator
- 3.2.5.2.1 Type: ...
- 3.2.5.2.2 Nominal output: VA
- 3.2.6. Ignition system (spark ignition engines only)
- 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 or map : ...
- 3.2.6.5. Static ignition timing : degrees before TDC
- 3.2.6.6. Spark plugs
- 3.2.6.6.1 Make: ...
- 3.2.6.6.2 Type: ...
- 3.2.6.6.3 Gap setting:mm
- 3.2.6.7. Ignition coil(s)
- 3.2.6.7.1 Make: ...
- 3.2.6.7.2 Type: ...
- 3.2.7. Cooling system: liquid/air
- 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
- 3.2.7.2.3 Characteristics:or
- 3.2.7.2.3 Make(s): ...
- 3.2.7.2.3 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 Fan: yes/no
 - 3.2.7.3.2 Characteristics:or
 - 3.2.7.3.3 Make(s): ...
 - 3.2.7.3.4 Type(s): ...
 - 3.2.7.3.5 Drive ratio(s): ...
- 3.2.8. Intake system
 - 3.2.8.1. Pressure charger: yes/no
 - 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: kPa;...
 - 3.2.8.2. Intercooler: yes/no
 - 3.2.8.2.1 Type: air-air/air-water
 - 3.2.8.3. Intake depression at rated engine speed and at 100 %...
 - 3.2.8.3.1 Minimum allowable: kPa
 - 3.2.8.3.2 Maximum allowable: kPa
 - 3.2.8.3.3 (Euro VI only) Actual Intake system depression at rated engine...
 - 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: ...
 - 3.2.9.2.1 (Euro VI only) Description and/or drawing of the elements of...
 - 3.2.9.3. Maximum allowable exhaust back pressure at rated engine speed and...
 - 3.2.9.3.1 (Euro VI only) Actual exhaust back pressure at rated engine...
 - 3.2.9.4. Type, marking of exhaust silencer(s): ...
 - 3.2.9.5. Location of the exhaust outlet: ...
 - 3.2.9.6. Exhaust silencer containing fibrous materials: ...
 - 3.2.9.7. Exhaust system volume: dm³
 - 3.2.9.7.1 (Euro VI only) Acceptable Exhaust system volume: ... dm³...
- 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 : ...
- 3.2.12. Measures taken against air pollution
 - 3.2.12.1 Device for recycling crankcase gases (description and drawings): ...
 - 3.2.12.1.1 (Euro VI only) Device for recycling crankcase gases: yes/no (2...
 - 3.2.12.2 Additional pollution control devices (if any, and if not covered...
 - 3.2.12.2.1 Catalytic converter: yes/no

- 3.2.12.2 Number of catalytic converters and elements (provide the information below...
- 3.2.12.2 Dimensions, shape and volume of the catalytic converter(s): ...
- 3.2.12.2 Type of catalytic action: ...
- 3.2.12.2 Total charge of precious metals: ...
- 3.2.12.2 Relative concentration: ...
- 3.2.12.2 Substrate (structure and material): ...
- 3.2.12.2 Cell density: ...
- 3.2.12.2 Type of casing for the catalytic converter(s): ...
- 3.2.12.2 Location of the catalytic converter(s) (place and reference distance in...
- 3.2.12.2 Heat shield: yes/no
- 3.2.12.2 Regeneration systems/method of exhaust after-treatment systems, description: ...
- 3.2.12.2 Number of Type I operating cycles (or equivalent engine bench...
- 3.2.12.2 Description of method employed to determine the number of cycles...
- 3.2.12.2 Parameters to determine the level of loading required before regeneration...
- 3.2.12.2 Description of method used to load system in the test...
- 3.2.12.2 Normal operating temperature range: K
- 3.2.12.2 Consumable reagents: yes/no
- 3.2.12.2 Type and concentration of reagent needed for catalytic action:
.....
- 3.2.12.2 Normal operational temperature range of reagent: K
- 3.2.12.2 International standard: ...
- 3.2.12.2 Frequency of reagent refill: continuous/maintenance
- 3.2.12.2 Make of catalytic converter: ...
- 3.2.12.2 Identifying part number: ...
- 3.2.12.2 Oxygen sensor: yes/no
- 3.2.12.2 Make: ...
- 3.2.12.2 Location: ...
- 3.2.12.2 Control range: ...
- 3.2.12.2 Type: ...
- 3.2.12.2 Identifying part number: ...
- 3.2.12.2 Air injection: yes/no
- 3.2.12.2 Type (pulse air, air pump, etc.): ...
- 3.2.12.2 Exhaust gas recirculation (EGR): yes/no
- 3.2.12.2 Characteristics (make, type, flow, etc.): ...
- 3.2.12.2 Water-cooled system: yes/no
- 3.2.12.2 Evaporative emissions control system: yes/no
- 3.2.12.2 Detailed description of the devices and their state of tune:...
- 3.2.12.2 Drawing of the evaporative control system: ...
- 3.2.12.2 Drawing of the carbon canister: ...
- 3.2.12.2 Mass of dry charcoal: g
- 3.2.12.2 Schematic drawing of the fuel tank with indication of capacity...
- 3.2.12.2 Drawing of the heat shield between tank and exhaust system:...
- 3.2.12.2 Particulate trap (PT): yes/no
- 3.2.12.2 Dimensions, shape and capacity of the particulate trap: ...
- 3.2.12.2 Design of the particulate trap: ...
- 3.2.12.2 Location (reference distance in the exhaust line): ...

- 3.2.12.2 Method or system of regeneration, description and/or drawing:
...
- 3.2.12.2 Number of Type I operating cycles (or equivalent engine bench...)
- 3.2.12.2 Description of method employed to determine the number of cycles...
- 3.2.12.2 Parameters to determine the level of loading required before regeneration...
- 3.2.12.2 Description of method used to load system in the test...
- 3.2.12.2 Make of particulate trap: ...
- 3.2.12.2 Identifying part number: ...
- 3.2.12.2 Normal operating temperature: ... (K) and pressure range ... (KPa)...
- 3.2.12.2 In the case of periodic regeneration (heavy-duty vehicles only)
- 3.2.12.2 Number of ETC test cycles between 2 regenerations (n1):
- 3.2.12.2 (Euro VI only) Number of WHTC test cycles without regeneration...
- 3.2.12.2 Number of ETC cycles during regeneration (n2): ... (not applicable...)
- 3.2.12.2 (Euro VI only) Number of WHTC test cycles with regeneration...
- 3.2.12.2 Other systems: yes/no (1)
- 3.2.12.2 Description and operation
- 3.2.12.2 On-board-diagnostic (OBD) system: yes/no : ...
- 3.2.12.2 (Euro VI only) Number of OBD engine families within the...
- 3.2.12.2 List of the OBD engine families (when applicable)
- 3.2.12.2 Number of the OBD engine family the parent engine /...
- 3.2.12.2 Manufacturer references of the OBD-Documentation required by Article 5(4)(c) and...
- 3.2.12.2 When appropriate, manufacturer reference of the Documentation for installing in...
- 3.2.12.2 When appropriate, manufacturer reference of the documentation package related to...
- 3.2.12.2 Written description and/or drawing of the MI (6)
- 3.2.12.2 Written description and/or drawing of the OBD off-board communication interface (...)
- 3.2.12.2 Written description and/or drawing of the MI: ...
- 3.2.12.2 List and purpose of all components monitored by the OBD...
- 3.2.12.2 Written description (general working principles) for
- 3.2.12.2 Positive-ignition engines
- 3.2.12.2 Catalyst monitoring: ...
- 3.2.12.2 Misfire detection: ...
- 3.2.12.2 Oxygen sensor monitoring: ...
- 3.2.12.2 Other components monitored by the OBD system: ...
- 3.2.12.2 Compression-ignition engines: ...
- 3.2.12.2 Catalyst monitoring: ...
- 3.2.12.2 Particulate trap monitoring: ...
- 3.2.12.2 Electronic fuelling system monitoring: ...
- 3.2.12.2 NOx system monitoring: ...
- 3.2.12.2 Other components monitored by the OBD system: ...
- 3.2.12.2 Criteria for MI activation (fixed number of driving cycles or...)
- 3.2.12.2 List of all OBD output codes and formats used (with...

- 3.2.12.2 The following additional information shall be provided by the vehicle...
 - 3.2.12.2.A Description of the type and number of the preconditioning...
 - 3.2.12.2.A.1 Description of the type of the OBD demonstration cycle...
 - 3.2.12.2.A.2 Comprehensive document describing all sensed components with the strategy...
 - 3.2.12.2.B The information required above may be defined by completing a...
 - 3.2.12.2.B.1 Low duty vehicles
 - 3.2.12.2.B.2 Heavy duty vehicles
 - 3.2.12.2.B.3 (Euro VI only) OBD Communication protocol standard: (4)
 - 3.2.12.2.B.4 (Euro VI only) Manufacturer reference of the OBD related information...
 - 3.2.12.2.B.5 an alternative to a manufacturer reference provided in Section...
 - 3.2.12.2.B.6 Other system (description and operation): ...
 - 3.2.12.2.B.7 (Euro VI only) Systems to ensure the correct operation of...
 - 3.2.12.2.B.8 (Euro VI only) Engine with permanent deactivation of the driver...
 - 3.2.12.2.B.9 (Euro VI only) Number of OBD engine families within the...
 - 3.2.12.2.B.10 (Euro VI only) List of the OBD engine families (when...
 - 3.2.12.2.B.11 (Euro VI only) Number of the OBD engine family the...
 - 3.2.12.2.B.12 (Euro VI only) Lowest concentration of the active ingredient present...
 - 3.2.12.2.B.13 (Euro VI only) When appropriate, manufacturer reference of the Documentation...
 - 3.2.12.2.B.14 Components on-board the vehicle of the systems ensuring the correct...
 - 3.2.12.2.B.15 Torque limiter: yes/no
 - 3.2.12.2.B.16 Description of the torque limiter activation (heavy-duty vehicles only):
 - 3.2.12.2.B.17 Description of the full load curve limitation (heavy-duty vehicles only):...
- 3.2.13. Smoke opacity
 - 3.2.13.1 Location of the absorption coefficient symbol (compression ignition engines only):...
 - 3.2.13.2 Power at six points of measurement (see point 2.1 of...
 - 3.2.13.3 Engine power measured on test bench/on the vehicle
 - 3.2.13.3 Declared speeds and powers
- 3.2.14. Details of any devices designed to influence fuel economy (if...
- 3.2.15. LPG fuelling system: yes/no
 - 3.2.15.1 Type-approval number according to Directive 70/221/EEC (when the Directive will...
 - 3.2.15.2 Electronic engine management control unit for LPG fuelling
 - 3.2.15.2 Make(s): ...
 - 3.2.15.2 Type(s): ...
 - 3.2.15.2 Emission-related adjustment possibilities: ...
 - 3.2.15.3 Further documentation
 - 3.2.15.3 Description of the safeguarding of the catalyst at switch-over from...
 - 3.2.15.3 System lay-out (electrical connections, vacuum connections compensation hoses, etc.):
 - 3.2.15.3 Drawing of the symbol: ...

- 3.2.16. NG fuelling system: yes/no
 - 3.2.16.1 Type-approval number according to Directive 70/221/EEC (when the Directive will...)
 - 3.2.16.2 Electronic engine management control unit for NG fuelling
 - 3.2.16.2 Make(s): ...
 - 3.2.16.2 Type(s): ...
 - 3.2.16.2 Emission-related adjustment possibilities: ...
 - 3.2.16.3 Further documentation
 - 3.2.16.3 Description of the safeguarding of the catalyst at switch-over from...
 - 3.2.16.3 System lay-out (electrical connections, vacuum connections compensation hoses, etc.):
 - 3.2.16.3 Drawing of the symbol: ...
- 3.2.17. Specific information related to gas fuelled engines for heavy-duty vehicles...
 - 3.2.17.1 Fuel: LPG/NG-H/NG-L/NG-HL
 - 3.2.17.2 Pressure regulator(s) or vaporiser/pressure regulator(s)
 - 3.2.17.2 Make(s): ...
 - 3.2.17.2 Type(s): ...
 - 3.2.17.2 Number of pressure reduction stages: ...
 - 3.2.17.2 Pressure in final stage
 - 3.2.17.2 Number of main adjustment points: ...
 - 3.2.17.2 Number of idle adjustment points: ...
 - 3.2.17.2 Type-approval number: ...
 - 3.2.17.3 Fuelling system: mixing unit/gas injection/liquid injection/direct injection
 - 3.2.17.3 Mixture strength regulation: ...
 - 3.2.17.3 System description and/or diagram and drawings: ...
 - 3.2.17.3 Type-approval number: ...
 - 3.2.17.4 Mixing unit
 - 3.2.17.4 Number: ...
 - 3.2.17.4 Make(s): ...
 - 3.2.17.4 Type(s): ...
 - 3.2.17.4 Location: ...
 - 3.2.17.4 Adjustment possibilities: ...
 - 3.2.17.4 Type-approval number: ...
 - 3.2.17.5 Inlet manifold injection
 - 3.2.17.5 Injection: single point/multipoint
 - 3.2.17.5 Injection: continuous/simultaneously timed/sequentially timed
 - 3.2.17.5 Injection equipment
 - 3.2.17.5 Make(s): ...
 - 3.2.17.5 Type(s): ...
 - 3.2.17.5 Adjustment possibilities: ...
 - 3.2.17.5 Type-approval number: ...
 - 3.2.17.5 Supply pump (if applicable)
 - 3.2.17.5 Make(s): ...
 - 3.2.17.5 Type(s): ...
 - 3.2.17.5 Type-approval number: ...
 - 3.2.17.5 Injector(s) ...
 - 3.2.17.5 Make(s): ...
 - 3.2.17.5 Type(s): ...
 - 3.2.17.5 Type-approval number: ...

- 3.2.17.6 Direct injection
- 3.2.17.6 Injection pump/pressure regulator
- 3.2.17.6 Make(s): ...
- 3.2.17.6 Type(s): ...
- 3.2.17.6 Injection timing: ...
- 3.2.17.6 Type-approval number: ...
- 3.2.17.6 Injector(s) ...
- 3.2.17.6 Make(s): ...
- 3.2.17.6 Type(s): ...
- 3.2.17.6 Opening pressure or characteristic diagram : ...
- 3.2.17.6 Type-approval number: ...
- 3.2.17.7 Electronic control unit (ECU)
- 3.2.17.7 Make(s): ...
- 3.2.17.7 Type(s): ...
- 3.2.17.7 Adjustment possibilities: ...
- 3.2.17.7 Software calibration number(s): ...
- 3.2.17.8 NG fuel-specific equipment
- 3.2.17.8 Variant 1 (only in the case of approvals of engines...
- 3.2.17.8 (EOR, VI only) Self adaptive feature? Yes/No (1)
- 3.2.17.8 (EOR, VI only) Calibration for a specific gas composition NG-
H/NG-L/NG-HL (...
- 3.2.17.8 Fuel composition:
- 3.2.17.8 Injector(s)
- 3.2.17.8 Make(s): ...
- 3.2.17.8 Type(s): ...
- 3.2.17.8 Others (if applicable): ...
- 3.2.17.8 Variant 2 (only in the case of approvals for several...
- 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. Engine or motor combination
- 3.4.1. Hybrid electric vehicle: yes/no
- 3.4.2. Category of hybrid electric vehicle: off-vehicle charging/not off-
vehicle charging:
- 3.4.3. Operating mode switch: with/without
- 3.4.3.1. Selectable modes
- 3.4.3.1. Pure electric: yes/no
- 3.4.3.1. Pure fuel consuming: yes/no
- 3.4.3.1. Hybrid modes: yes/no
- 3.4.4. Description of the energy storage device: (battery, capacitor, flywheel/
generator)
- 3.4.4.1. Make(s): ...
- 3.4.4.2. Type(s): ...
- 3.4.4.3. Identification number: ...
- 3.4.4.4. Kind of electrochemical couple: ...
- 3.4.4.5. Energy: ... (for battery: voltage and capacity Ah in 2...
- 3.4.4.6. Charger: on board/external/without

- 3.4.5. Electric motor (describe each type of electric motor separately)
 - 3.4.5.1. Make: ...
 - 3.4.5.2. Type: ...
 - 3.4.5.3. Primary use: traction motor/generator
 - 3.4.5.3.1. When used as traction motor: single-/multimotors (number) :
...
 - 3.4.5.4. Maximum power: kW
 - 3.4.5.5. Working principle
 - 3.4.5.5.1. Direct current/alternating current/number of phases: ...
 - 3.4.5.5.2. Separate excitation/series/compound
 - 3.4.5.5.3. Synchronous/asynchronous
- 3.4.6. Control unit
 - 3.4.6.1. Make(s): ...
 - 3.4.6.2. Type(s): ...
 - 3.4.6.3. Identification number: ...
- 3.4.7. Power controller
 - 3.4.7.1. Make: ...
 - 3.4.7.2. Type: ...
 - 3.4.7.3. Identification number: ...
- 3.4.8. Vehicle electric range ... km according to Annex 7 of...
- 3.4.9. Manufacturer's recommendation for preconditioning : ...
- 3.5. CO₂ emissions/fuel consumption (manufacturer's declared value)
 - 3.5.1. CO₂ mass emissions
 - 3.5.1.1. CO₂ mass emissions (urban conditions): g/km
 - 3.5.1.2. CO₂ mass emissions (extra-urban conditions): g/km
 - 3.5.1.3. CO₂ mass emissions (combined): g/km
 - 3.5.2. Fuel consumption (provide details for each reference fuel tested)
 - 3.5.2.1. Fuel consumption (urban conditions): l/100 km/m³/100 km...
 - 3.5.2.2. Fuel consumption (extra-urban conditions): l/100 km/m³/100 km...
 - 3.5.2.3. Fuel consumption (combined): l/100 km/m³/100 km
 - 3.5.4. CO₂ emissions for heavy duty engines (Euro VI only)...
 - 3.5.4.1. CO₂ mass emissions WHSC test ... g/kWh
 - 3.5.4.2. CO₂ mass emissions WHTC test: ... g/kWh
 - 3.5.5. Fuel consumption for heavy duty engines (Euro VI only)
 - 3.5.5.1. Fuel consumption WHSC test: ... g/kWh
 - 3.5.5.2. Fuel consumption WHTC test: ... g/kWh
- 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
 - 3.6.6. Fuel pressure
- 3.7. Engine-driven equipment
- 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.)
 - 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
 - 3.8.4.1. Drawing(s): or
 - 3.8.4.1.1 Make(s): ...
 - 3.8.4.1.2 Type(s): ...
- 4. TRANSMISSION
 - 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
 - 4.4.1. Type: ...
 - 4.4.2. Maximum torque conversion: ...
 - 4.5. Gearbox
 - 4.5.1. Type (manual/automatic/CVT (continuously variable transmission))
 - 4.5.2. Location relative to the engine: ...
 - 4.5.3. Method of control: ...
 - 4.6. Gear ratios
 - 4.7. Maximum vehicle design speed (in km/h) : ...
 - 4.8. Speedometer
 - 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...
 - 4.8.4. Overall transmission ratio (pursuant to item 2.1.2 of Annex II...
 - 4.8.5. Diagram of the speedometer scale or other forms of display:...
 - 4.9. Tachograph: yes/no
 - 4.9.1 Approval mark: ...
 - 4.10. Differential lock: yes/no/optional
- 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
 - 6.2.2. A brief description of the electrical/electronic components (if any):
 - 6.2.3. Air-suspension for driving axle(s): yes/no
 - 6.2.3.1. Suspension of driving axle(s) equivalent to air-suspension: yes/no
 - 6.2.3.2. Frequency and damping of the oscillation of the sprung mass:...
 - 6.2.4. Air-suspension for non-driving axle(s): yes/no

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- 6.2.4.1. Suspension of non-driving axle(s) equivalent to air-suspension: yes/no
 - 6.2.4.2. 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
 - 6.5. Shock absorbers: yes/no/optional
 - 6.6. Tyres and wheels
 - 6.6.1. Tyre/wheel combination(s)
 - 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: ...
 - 6.6.2.3. Axle 3: ...
 - 6.6.2.4. Axle 4: ...
 - 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 point...
 - 8.2. Operating diagram, description and/or drawing of the braking system described...
 - 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 service...
 - 8.5. Anti-lock braking system: yes/no/optional
 - 8.5.1. For vehicles with anti-lock systems, description of system operation (including...

- 8.6. Calculation and curves according to the Appendix to point 1.1.4.2...
 - 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 system according to point 1.6...
 - 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 using the codes defined in Part C...
 - 9.2. Materials used and methods of construction: ...
 - 9.3. Occupant doors, latches and hinges
 - 9.3.1. Door configuration and number of doors: ...
 - 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
 - 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. 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. 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. Type-approval number(s): ...
 - 9.5.4. Other glass panes
 - 9.5.4.1. Materials used: ...
 - 9.5.4.2. 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...
 - 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. Rear-view mirrors, stating for each mirror:
 - 9.9.1.1. Make: ...

- 9.9.1.2. 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 arrangement
 - 9.10.1. Interior protection for occupants
 - 9.10.1.1 Layout drawing or photographs showing the position of the attached...
 - 9.10.1.2 Photograph or drawing showing the reference zone 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 of seating positions : ...
 - 9.10.3.1.1 Location and arrangement: ...
 - 9.10.3.2 Seat(s) designated for use only when the vehicle is stationary:...
 - 9.10.3.3 Mass: ...
 - 9.10.3.4 Characteristics: for seats not type-approved as components, description and drawings...
 - 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
 - 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
 - 9.10.4.2 Type-approval number(s), if available: ...
 - 9.10.4.3 For head restraints not yet approved

- 9.10.4.3A. detailed description of the head restraint, specifying in particular...
- 9.10.4.3B. In the case of a ' separate ' head restraint...
- 9.10.4.3A. Detailed description of the structural zone to which the...
- 9.10.4.3B. Dimensional drawings of the characteristic parts of the structure and...
- 9.10.5. Heating systems for the passenger compartment
 - 9.10.5.1A brief description of the vehicle type with regard to...
 - 9.10.5.2A detailed description of the vehicle type with regard to...
 - 9.10.5.2B layout drawing of the heating system showing its position in...
 - 9.10.5.2C layout drawing of the heat exchanger for heating systems using...
 - 9.10.5.2D Sectional drawing of the heat exchanger or the parts respectively...
 - 9.10.5.2E Specifications shall be given for further important components of the...
 - 9.10.5.3A brief description of the vehicle type with regard to...
 - 9.10.5.3B layout drawing of the combustion heater, the air inlet system,...
 - 9.10.5.4 Maximum 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...
 - 9.10.6.2 Photograph(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...
 - 9.10.7.1 Material(s) used for the interior lining of the roof
 - 9.10.7.1A Component type-approval number(s), if available: ...
 - 9.10.7.1B For materials not approved
 - 9.10.7.1C Base material(s)/designation:/.....
 - 9.10.7.1D Composite/single material, number of layers : ...
 - 9.10.7.1E Type of coating : ...
 - 9.10.7.1F Maximum/minimum thickness:/..... mm
 - 9.10.7.2 Material(s) used for the rear and side walls
 - 9.10.7.2A Component type-approval number(s), if available: ...
 - 9.10.7.2B For materials not approved
 - 9.10.7.2C Base material(s)/designation:/.....
 - 9.10.7.2D Composite/single material, number of layers : ...
 - 9.10.7.2E Type of coating : ...
 - 9.10.7.2F Maximum/minimum thickness:/..... mm
 - 9.10.7.3 Material(s) used for the floor
 - 9.10.7.3A Component type-approval number(s), if available: ...
 - 9.10.7.3B For materials not approved
 - 9.10.7.3C Base material(s)/designation:/.....
 - 9.10.7.3D Composite/single material, number of layers : ...
 - 9.10.7.3E Type of coating : ...
 - 9.10.7.3F Maximum/minimum thickness:/..... mm
 - 9.10.7.4 Material(s) used for the upholstery of the seats
 - 9.10.7.4A Component type-approval number(s), if available: ...
 - 9.10.7.4B For materials not approved
 - 9.10.7.4C Base material(s)/designation:/.....
 - 9.10.7.4D Composite/single material, number of layers : ...

- 9.10.7.4 Type of coating : ...
- 9.10.7.4 Maximum/minimum thickness:/..... mm
- 9.10.7.5 Material(s) used for the heating and ventilation pipes
 - 9.10.7.5 Component type-approval number(s), if available: ...
 - 9.10.7.5 For materials not approved
 - 9.10.7.5 Base material(s)/designation:/.....
 - 9.10.7.5 Composite/single material, number of layers : ...
 - 9.10.7.5 Type of coating : ...
 - 9.10.7.5 Maximum/minimum thickness:/.....mm
- 9.10.7.6 Material(s) used for luggage racks
 - 9.10.7.6 Component type-approval number(s), if available: ...
 - 9.10.7.6 For materials not approved
 - 9.10.7.6 Base material(s)/designation:/.....
 - 9.10.7.6 Composite/single material, number of layers : ...
 - 9.10.7.6 Type of coating : ...
 - 9.10.7.6 Maximum/minimum thickness:/..... mm
- 9.10.7.7 Material(s) used for other purposes
 - 9.10.7.7 Intended purposes: ...
 - 9.10.7.7 Component type-approval number(s), if available: ...
 - 9.10.7.7 For materials not approved
 - 9.10.7.7 Base material(s)/designation:/.....
 - 9.10.7.7 Composite/single material, number of layers : ...
 - 9.10.7.7 Type of coating : ...
 - 9.10.7.7 Maximum/minimum thickness: /.... mm
- 9.10.7.8 Components approved as complete devices (seats, separation walls, luggage racks,...)
 - 9.10.7.8 Component type-approval number(s): ...
 - 9.10.7.8 For the complete device: seat, separation wall, luggage racks, etc....
- 9.10.8 Gas used as refrigerant in the air-conditioning system: ...
 - 9.10.8.1 The air-conditioning system is designed to contain fluorinated greenhouse gases...
 - 9.10.8.2 If yes, fill in the following sections
 - 9.10.8.2 Drawing and brief description of the air-conditioning system, including the...
 - 9.10.8.2 Leakage of the air-conditioning system
 - 9.10.8.2 Reference or part number and material of the components of...
 - 9.10.8.3 Overall leakage in g/year of the entire system: ...
- 9.11. External projections
 - 9.11.1. General arrangement (drawing or photographs) indicating the position of the...
 - 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 fitting...
 - 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 x width): ...
 - 9.14.6. Inclination of the plane to the vertical: ...
 - 9.14.7. Angle of visibility in the horizontal plane: ...
- 9.15. Rear under-run protection
 - 9.15.0. Presence: yes/no/incomplete
 - 9.15.1. Drawing of the vehicle parts relevant to the rear under-run...
 - 9.15.2. In case of a special device, full description and/or drawing...
- 9.16. Wheel guards
 - 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
 - 9.17.1. Photographs and/or drawings of the locations of the statutory plates...
 - 9.17.2. Photographs and/or drawings of the statutory plate and inscriptions (completed...
 - 9.17.3. Photographs and/or drawings of the vehicle identification number (completed example...
 - 9.17.4. Manufacturer's declaration of compliance with the requirements set out in...
 - 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. Radio interference/electromagnetic compatibility
 - 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
 - 9.19.0. Presence: yes/no/incomplete
 - 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
 - 9.20.0. Presence: yes/no/incomplete
 - 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. Type-approval number(s) of spray-suppression device(s), if available:
...
- 9.21. Side-impact resistance
 - 9.21.1. A detailed description, including photographs and/or drawings, of the vehicle...
- 9.22. Front under-run protection
 - 9.22.0. Presence: yes/no/incomplete

- 9.22.1. Drawing of the vehicle parts relevant to the front under-run...
 - 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...
 - 9.24. Frontal protection systems
 - 9.24.1. General arrangement (drawings or photographs) indicating the position and attachment of...
 - 9.24.2. Drawings and/or photographs, where relevant, of air intake grilles, radiator...
 - 9.24.3. Complete details of fittings required and full instructions, including torque...
 - 9.24.4. Drawing of bumpers:
 - 9.24.5. Drawing of the floor line at the vehicle front end:...
- 10. LIGHTING AND LIGHT SIGNALLING DEVICES
 - 10.1. Table of all devices: number, make, model, type-approval mark, maximum...
 - 10.2. Drawing of the position of lighting and light signalling devices:...
 - 10.3. For every lamp and reflector specified in Council Directive 76/756/EEC...
 - 10.3.1. Drawing showing the extent of the illuminating surface: ...
 - 10.3.2. Method used for the definition of the apparent surface in...
 - 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 in accordance to paragraph 6.2.6.1...
 - 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)...
 - 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. 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. Type-approval number(s): ...
 - 12.1.4. Electrical/pneumatic 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
 - 12.2.1.1A detailed description of the vehicle type with regard to...
 - 12.2.1.2Drawings of the protective device and of its mounting on...
 - 12.2.1.3A technical description of the device: ...
 - 12.2.1.4Details of the lock combinations used: ...
 - 12.2.1.5Vehicle immobiliser
 - 12.2.1.5Type-approval number, if available: ...

- 12.2.1.5 For immobilisers not yet approved
 - 12.2.1.5A Detailed technical description of the vehicle immobiliser and of...
 - 12.2.1.5B The system(s) on which the vehicle immobiliser acts: ...
 - 12.2.1.5C Number of effective interchangeable codes, if applicable: ...
 - 12.2.2. Alarm system (if any)
 - 12.2.2.1 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
 - 12.3.2. Rear: Hook/eye/other/none
 - 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 limitation devices
 - 12.6.1. Manufacturer(s): ...
 - 12.6.2. Type(s): ...
 - 12.6.3. 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...
 - 12.7.1. Vehicle equipped with a 24 GHz short-range radar equipment: yes/no...
13. SPECIAL PROVISIONS FOR BUSES AND COACHES
- 13.1. Class of vehicle: Class I/Class II/Class III/Class A/Class B
 - 13.1.1. Type-approval number of bodywork approved as a separate technical unit:...
 - 13.1.2. Chassis types where the type-approved bodywork can be installed (manufacturer(s),...
 - 13.2. Area for passengers (m²)
 - 13.2.1. Total (S₀): ...
 - 13.2.2. Upper deck (S_{0a}): ...
 - 13.2.3. Lower deck (S_{0b}): ...
 - 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 (N_a): ...
 - 13.3.3. Lower deck (N_b): ...
 - 13.4. Number of passengers seated
 - 13.4.1. Total (A): ...
 - 13.4.2. Upper deck (A_a): ...
 - 13.4.3. Lower deck (A_b): ...
 - 13.4.4. Number of wheelchair positions for category M₂ and M...
 - 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: ...
 - 13.6.3. Lower deck: ...
 - 13.7. Volume of luggage compartments (m³): ...
 - 13.8. Area of luggage transportation on the roof (m²):...
 - 13.9. Technical devices facilitating the access to vehicles (e.g. ramp, lifting...
 - 13.10. Strength of superstructure

-
- 13.10.1. Type-approval number, if available: ...
 - 13.10.2. For superstructures not yet approved
 - 13.10.2. Detailed description of the superstructure of the vehicle type including...
 - 13.10.2. Drawings of the vehicle and those parts of its interior...
 - 13.10.2. 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 Directive 2001/85/EC of the European parliament and of...
14. SPECIAL PROVISIONS FOR VEHICLES INTENDED FOR THE TRANSPORT OF DANGEROUS...
- 14.1. Electrical equipment according to Council Directive 94/55/EC (OJ L...
 - 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...
15. REUSABILITY, RECYCLABILITY AND RECOVERABILITY
- 15.1. Version to which the reference vehicle belongs: ...
 - 15.2. Mass of the reference vehicle with bodywork or mass of...
 - 15.3. Mass of materials of the reference vehicle: ...
 - 15.3.1. Mass of material taken into account at the pre-treatment step...
 - 15.3.2. Mass of the material taken into account at the dismantling...
 - 15.3.3. Mass of material taken into account at the non-metallic residue...
 - 15.3.4. Mass of material taken into account at the non-metallic residue...
 - 15.3.5. Materials breakdown : ...
 - 15.3.6. Total mass of materials, which are reusable and/or recyclable:
 - 15.3.7. Total mass of materials, which are reusable and/or recoverable:
 - 15.4. Rates
 - 15.4.1. Recyclability rate 'R cyc ' (%): ...
 - 15.4.2. Recoverability rate 'R cov ' (%): ...
16. ACCESS TO VEHICLE REPAIR AND MAINTENANCE INFORMATION
- 16.1. Address of principal website for access to vehicle repair and...
 - 16.1.1. Date from which it is available (no later than 6...
 - 16.2. Terms and conditions of access to website: ...
 - 16.3. Format of the vehicle repair and maintenance information accessible through...

Explanatory notes

ANNEX II

GENERAL DEFINITIONS, CRITERIA FOR VEHICLE CATEGORISATION, VEHICLE TYPES AND TYPES OF BODYWORK

INTRODUCTION AND GENERAL PROVISIONS

1. Definitions
 - 1.1. ‘ Seating position ’ means any location capable of accommodating...
 - 1.2. ‘ Seat ’ means a complete structure with trim, integral...
 - 1.2.1. The term ‘ seat ’ covers both an individual seat...
 - 1.2.2. Folding seats and removable seats are included in this definition...
 - 1.3. ‘ Goods ’ means primarily any movable things.
 - 1.4. ‘ Maximum mass ’ means the ‘ technically permissible maximum laden...
2. General provisions
 - 2.1. Number of seating positions
 - 2.1.1. The requirements regarding the number of seating positions apply to...
 - 2.1.2. They do not apply to seats that are designed for...
 - 2.1.3. The following requirements apply for the counting of the seating...
 - 2.1.4. With respect to vehicles covered by Directive 2001/85/EC of the...
 - 2.1.5. When seat anchors for a removable seat are present in...
 - 2.1.6. An area intended for an occupied wheelchair shall be regarded...
 - 2.1.6.1. This provision shall be without prejudice to the requirements of...
 - 2.2. Maximum mass
 - 2.2.1. In the case of a tractor unit for semi-trailer, the...
 - 2.2.2. In the case of a motor vehicle that can tow...
 - 2.2.3. In the case of a semi-trailer, a centre-axle trailer and...
 - 2.2.4. In the case of a converter dolly, the maximum mass...
 - 2.3. Special equipment
 - 2.3.1. Vehicles fitted primarily with fixed equipment such as machinery or...
 - 2.4. Units
 - 2.4.1. Unless otherwise stated any unit of measurement and associated symbol...
3. Categorisation into vehicle categories
 - 3.1. The manufacturer is responsible for the categorisation of a type...
 - 3.2. The approval authority may request from the manufacturer appropriate additional...

PART A

Criteria for vehicle categorisation

1. Vehicle categories

-
2. Vehicle subcategories
 - 2.1. Off-road vehicles
 - 2.2. Special purpose vehicles
 - 2.2.1. ‘ Special purpose vehicle (SPV) ’ means a vehicle of...
 - 2.3. Off road special purpose vehicle
 - 2.3.1. ‘ Off road special purpose vehicle (ORV-SPV) ’ means a...
 3. Criteria for the categorisation of vehicles in category N
 - 3.1. The categorisation of a vehicle type in category N shall...
 - 3.2. As a matter of principle, the compartment(s) where all the...
 - 3.3. By way of derogation from the requirements of point 3.2,...
 - 3.4. Securing devices - lashing devices - intended for securing the...
 - 3.4.1. The requirements referred to in point 3.4 may be verified...
 - 3.4.2. As an alternative to the requirements of point 3.4, the...
 - 3.5. The number of seating positions excluding the driver’s seating position...
 - 3.6. Vehicles shall show a goods-carrying capacity equal or higher than...
 - 3.6.1. For such purposes, the following equations shall be satisfied in...
 - 3.6.2. The mass of equipment that is fitted to the vehicle...
 - 3.7. The requirements referred to in points 3.2 to 3.6 shall...
 - 3.8. Criteria for the categorisation of vehicles as N 1
 - 3.8.1. A vehicle shall be categorised as N 1 when all...
 - 3.8.2. In addition to the general criteria referred to in points...
 - 3.8.2.1. The fact that a wall or a partition, complete or...
 - 3.8.2.2. The criteria shall be as follows:
 - 3.8.2.3. Specific conditions for measurement
 - 3.8.2.3.1. Definitions
 - 3.8.2.3.2. Seat adjustments
 - 3.8.2.3.3. Vehicle conditions
 - 3.8.2.3.4. The requirements of point 3.8.2.3.2 shall not apply when the...
 - 3.8.2.3.5. Measurement of the length of the cargo area
 - 3.8.3. In addition to the general criteria referred to in points...
 - 3.8.3.1. Where the vehicle is fitted with an enclosure type body,...
 - 3.8.3.2. Where the vehicle is fitted with an open type cargo...
 - 3.8.3.3. For the application of the provisions referred to in point...
 - 3.8.3.4. However, the requirements concerning the length of the cargo area...
 4. Criteria for the subcategorisation of vehicles as off-road vehicles
 - 4.1. M 1 or N 1 vehicles shall be subcategorised as...
 - 4.2. M 2 , N 2 or M 3 vehicles whose...
 - 4.3. M 3 or N 3 vehicles whose maximum mass exceeds...
 - 4.4. The procedure for checking compliance with the geometrical provisions referred...
 5. Special purpose vehicles
 6. Remarks
 - 6.1. Type-approval shall not be granted:
 - 6.2. Paragraph 6.1 is without prejudice to the provisions of Article...

PART B

Criteria for vehicle types, variants and versions

1. Category M 1
 - 1.1. Vehicle type
 - 1.1.1. A ' vehicle type ' shall consist of vehicles which...
 - 1.1.2. By way of derogation from the requirements of point 1.1.1(b),...
 - 1.1.3. A type shall consist of at least one variant and...
 - 1.2. Variant
 - 1.2.1. A ' variant ' within a vehicle type shall group...
 - 1.3. Version
 - 1.3.1. A ' version ' within a variant shall group the...
2. Categories M 2 and M 3
 - 2.1. Vehicle type
 - 2.1.1. A ' vehicle type ' shall consist of vehicles which...
 - 2.1.2. A type shall consist of at least one variant and...
 - 2.2. Variant
 - 2.2.1. A ' variant ' within a vehicle type shall group...
 - 2.3. Version
 - 2.3.1. A ' version ' within a variant shall group the...
3. Category N 1
 - 3.1. Vehicle type
 - 3.1.1. A ' vehicle type ' shall consist of vehicles which...
 - 3.1.2. By way of derogation from the requirements of point 3.1.1(b),...
 - 3.1.3. A type shall consist of at least one variant and...
 - 3.2. Variant
 - 3.2.1. A ' variant ' within a vehicle type shall group...
 - 3.3. Version
 - 3.3.1. A ' version ' within a variant shall group the...
4. Categories N 2 and N 3
 - 4.1. Vehicle type
 - 4.1.1. A ' vehicle type ' shall consist of vehicles which...
 - 4.1.2. A type shall consist of at least one variant and...
 - 4.2. Variant
 - 4.2.1. A ' variant ' within a vehicle type shall group...
 - 4.3. Version
 - 4.3.1. A ' version ' within a variant shall group the...
5. Categories O 1 and O 2
 - 5.1. Vehicle type
 - 5.1.1. A ' vehicle type ' shall consist of vehicles which...
 - 5.1.2. A type shall consist of at least one variant and...
 - 5.2. Variant
 - 5.2.1. A ' variant ' within a vehicle type shall group...
 - 5.3. Version
 - 5.3.1. A ' version ' within a variant shall group the...
6. Categories O 3 and O 4
 - 6.1. Vehicle type

- 6.1.1. A ' vehicle type ' shall consist of vehicles which...
- 6.1.2. A type shall consist of at least one variant and...
- 6.2. Variants
 - 6.2.1. A ' variant ' within a vehicle type shall group...
- 6.3. Versions
 - 6.3.1. A ' version ' within a variant shall group the...
- 7. Common requirements for all vehicle categories
 - 7.1. When a vehicle falls into several categories because of its...
 - 7.1.1. Examples:
 - 7.2. A vehicle of category N may be type-approved against the...
 - 7.2.1. This option shall only be permitted for incomplete vehicles.
 - 7.3. Type-, variant- and version designations
 - 7.3.1. The manufacturer shall allocate an alphanumeric code to each vehicle...
 - 7.3.2. The whole code shall be designated: Type-Variant-Version or ' TVV...'
 - 7.3.3. The TVV shall clearly and unequivocally identify a unique combination...
 - 7.3.4. The same manufacturer may use the same code in order...
 - 7.3.5. The same manufacturer shall not use the same code in...
 - 7.4. Number of characters for the TVV
 - 7.4.1. The number of characters shall not exceed:
 - 7.4.2. The complete alphanumeric ' TVV ' shall not contain more...
 - 7.4.3. When the TVV is used as a whole, a space...

PART C

Definitions of types of bodywork

- 0. General
 - 0.1. The type of bodywork referred to in Section 9 of...
 - 0.2. As regards vehicles of categories M, the type of bodywork...
 - 0.3. As regards vehicles of categories N and O, the type...
 - 0.4. Where necessary (especially for the types of bodywork referred to...
 - 0.4.1. The list of digits shall be laid down in Appendix...
 - 0.5. For special purpose vehicles, the type of bodywork to be...
- 1. Vehicles belonging to category M 1
- 2. Vehicles belonging to category M 2 or M 3
- 3. Motor vehicles of category N 1 , N 2 or...
- 4. Vehicles of category O

Appendix 1

Procedure for checking whether a vehicle can be categorised as...

- 0. General
 - 0.1. For the purposes of classification of a vehicle as off-road...
- 1. Test conditions for geometric measurements
 - 1.1. Vehicles belonging to category M 1 or N 1 shall...
 - 1.2. Vehicles other than those referred to in point 1.1 shall...

- 1.3. A vehicle representative of the type shall be submitted to...
2. Measurement of approach, departure and ramp angles
 - 2.1. The approach angle shall be measured in accordance with Item...
 - 2.2. The departure angle shall be measured in accordance with Item...
 - 2.3. The ramp angle shall be measured in accordance with Item...
 - 2.4. When measuring the departure angle rear underrun protection devices which...
 - 2.5. The prescription in point 2.4 shall not be construed as...
3. Measurement of ground clearance
 - 3.1. Ground clearance between the axles
 - 3.1.1. ‘ Ground clearance between the axles ’ means the shortest...
 - 3.1.2. No rigid part of the vehicle may project into the...
 - 3.2. Ground clearance beneath one axle
 - 3.2.1. ‘ Ground clearance beneath one axle ’ means the distance...
 - 3.2.2. Where appropriate, the measurement of ground clearance shall be conducted...
4. Gradeability
 - 4.1. ‘ Gradeability ’ means the ability of a vehicle to...
 - 4.2. To the effect of checking the gradeability of an incomplete...
 - 4.3. The test shall be conducted by the technical service on...
 - 4.4. At the request of the manufacturer and under the conditions...
5. Test conditions and pass-fail criterion
 - 5.1. Until 31 October 2014 , the conditions set out in...
 - 5.2. The vehicle shall climb the gradient at a steady speed...

Appendix 2

Digits used to supplement the codes to be used for...

- 01 Flat bed;
- 02 Drop-side;
- 03 Box body;
- 04 Conditioned body with insulated walls and equipment to maintain the...
- 05 Conditioned body with insulated walls but without equipment to maintain...
- 06 Curtain-sided;
- 07 Swap body (interchangeable superstructure);
- 08 Container carrier;
- 09 Vehicles fitted with hook lift;
- 10 Tipper;
- 11 Tank;
- 12 Tank intended for transport of dangerous goods;
- 13 Livestock carrier;
- 14 Vehicle transporter;
- 15 Concrete mixer;
- 16 Concrete pump vehicle;
- 17 Timber;
- 18 Refuse collection vehicle;
- 19 Street sweeper, cleansing and drain clearing;
- 20 Compressor;
- 21 Boat carrier;
- 22 Glider carrier;
- 23 Vehicles for retail or display purposes;

- 24 Recovery vehicle;
- 25 Ladder vehicle;
- 26 Crane lorry (other than a mobile crane as defined in...)
- 27 Aerial work platform vehicle;
- 28 Digger derrick vehicle;
- 29 Low floor trailer;
- 30 Glazing transporter;
- 31 Fire engine;
- 99 Bodywork that is not included in the present list.

ANNEX III

INFORMATION DOCUMENT FOR THE PURPOSE
OF EC TYPE-APPROVAL OF VEHICLES

PART I

- A. 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. 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: ...
 - 1.3. Number of axles and wheels: ...
 - 1.3.1. Number and position of axles with twin wheels: ...
 - 1.3.2. Number and position of steered axles: ...
 - 1.3.3. Powered axles (number, position, interconnection): ...
 - 1.4. Chassis (if any) (overall drawing): ...
 - 1.6. 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...
 - 2. MASSES AND DIMENSIONS (f)(g)
 - 2.1. Wheelbase(s) (fully loaded) (g1):
 - 2.1.1. Two-axle vehicles: ...
 - 2.1.2. Vehicles with three or more axles
 - 2.1.2.1. Axle spacing between consecutive axles going from the foremost to...
 - 2.1.2.2. Total axle spacing: ...
 - 2.3.1. Track of each steered axle (g4): ...
 - 2.3.2. Track of all other axles (g4): ...
 - 2.4. Range of vehicle dimensions (overall)
 - 2.4.1. For chassis without bodywork
 - 2.4.1.1. Length (g5): ...

- 2.4.1.1. Maximum permissible length: ...
 - 2.4.1.1. Minimum permissible length: ...
 - 2.4.1.2. Width (g7): ...
 - 2.4.1.2. Maximum permissible width: ...
 - 2.4.1.2. Minimum permissible width: ...
 - 2.4.1.3. Height (in running order) (g8) (for suspensions adjustable...
 - 2.4.2. For chassis with bodywork
 - 2.4.2.1. Length (g5): ...
 - 2.4.2.1. Length of the loading area: ...
 - 2.4.2.2. Width (g7): ...
 - 2.4.2.2. Thickness of the walls (in the case of vehicles designed...
 - 2.4.2.3. Height (in running order) (g8) (for suspensions adjustable...
 - 2.6. Mass in running order
 - 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 (...
 - 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 (3):...
 - 2.11.6. Maximum mass of unbraked trailer: ...
 - 2.12. Technically permissible maximum static vertical load / mass on the...
 - 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 (k)
 - 3.1. Manufacturer of the engine: ...
 - 3.1.1. Manufacturer's engine code (as marked on the engine or other...
 - 3.1.2. Approval number (if appropriate) including fuel identification marking: ...
 - 3.2. Internal combustion engine
 - 3.2.1.1. Working principle: positive ignition/compression ignition (1)
 - 3.2.1.2. Number and arrangement of cylinders: ...
 - 3.2.1.3. Engine capacity (m): cm³

- 3.2.1.6. Normal engine idling speed (2): min -1...
- 3.2.1.8. Maximum net power (n): kW at
- 3.2.1.11(Euro VI only) Manufacturer references of the Documentation package required...
- 3.2.2.1. Light-duty vehicles: Diesel/Petrol/LPG/NG or Biomethane/Ethanol (E 85)/Biodiesel/Hydrogen (1)...
- 3.2.2.2 Heavy duty vehicles Diesel/Petrol/LPG/NG-H/NG-L/NG-HL/Ethanol (ED95)/Ethanol (E85) (1) (6)...
- 3.2.2.2.1(Euro VI only) Fuels compatible with use by the engine...
- 3.2.2.4. Vehicle fuel type: Mono fuel, Bi fuel, Flex fuel (...)
- 3.2.2.5. Maximum amount of biofuel acceptable in fuel (manufacturer's declared value):...
- 3.2.3. Fuel tank(s)
 - 3.2.3.1. Service fuel tank(s)
 - 3.2.3.1.1 Number and capacity of each tank: ...
 - 3.2.3.2. Reserve fuel tank(s)
 - 3.2.3.2.1 Number and capacity of each tank: ...
- 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)...
 - 3.2.4.2.1 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)
 - 3.2.8.2. Intercooler: yes/no (1)
 - 3.2.8.3.1(Euro VI only) Actual Intake system depression at rated engine...
- 3.2.9. Exhaust system
 - 3.2.9.2.1(Euro VI only) Description and/or drawing of the elements of...
 - 3.2.9.3.1(Euro VI only) Actual exhaust back pressure at rated engine...
 - 3.2.9.4. Type, marking of exhaust silencer(s): ...
 - 3.2.9.5. Location of the exhaust outlet: ...
 - 3.2.9.7.1(Euro VI only) Acceptable Exhaust system volume: ... dm³...
- 3.2.12. Measures taken against air pollution
 - 3.2.12.1(Euro VI only) Device for recycling crankcase gases: yes/no (2)...
 - 3.2.12.2 Additional pollution control devices (if any, and if not covered...
 - 3.2.12.2.1 Catalytic converter: yes/no (1)
 - 3.2.12.2.2 Regeneration systems/method of exhaust after-treatment systems, description: ...
 - 3.2.12.2.3 Consumable reagents: yes/no (1)
 - 3.2.12.2.4 Type and concentration of reagent needed for catalytic action:
 - 3.2.12.2.5 Oxygen sensor: yes/no (1)
 - 3.2.12.2.6 Air injection: yes/no (1)
 - 3.2.12.2.7 Exhaust gas recirculation: yes/no (1)

- 3.2.12.2 Evaporative emissions control system: yes/no (1)
 - 3.2.12.2 Particulate trap: yes/no (1)
 - 3.2.12.2 Other systems: yes/no (1)
 - 3.2.12.2 Description and operation
 - 3.2.12.2 On-board-diagnostic (OBD) system: yes/no (1)
 - 3.2.12.2(Euro VI only) Number of OBD engine families within the...
 - 3.2.12.2(Euro VI only) List of the OBD engine families (when...
 - 3.2.12.2(Euro VI only) Number of the OBD engine family the...
 - 3.2.12.2(Euro VI only) Manufacturer references of the OBD-Documentation required by...
 - 3.2.12.2(Euro VI only) When appropriate, manufacturer reference of the Documentation...
 - 3.2.12.2(Euro VI only) When appropriate, manufacturer reference of the documentation...
 - 3.2.12.2(Euro VI only) Written description and/or drawing of the MI (...)
 - 3.2.12.2(Euro VI only) Written description and/or drawing of the OBD...
 - 3.2.12.2(Euro VI only) OBD Communication protocol standard: (4)
 - 3.2.12.2(Euro VI only) Manufacturer reference of the OBD related information...
 - 3.2.12.2 As an alternative to a manufacturer reference provided in Section...
 - 3.2.12.2 Other systems (description and operation): ...
 - 3.2.12.2(Euro VI only) Systems to ensure the correct operation of...
 - 3.2.12.2(Euro VI only) Engine with permanent deactivation of the driver...
 - 3.2.12.2(Euro VI only) Number of OBD engine families within the...
 - 3.2.12.2(Euro VI only) List of the OBD engine families (when...
 - 3.2.12.2(Euro VI only) Number of the OBD engine family the...
 - 3.2.12.2(Euro VI only) Lowest concentration of the active ingredient present...
 - 3.2.12.2(Euro VI only) When appropriate, manufacturer reference of the Documentation...
 - 3.2.12.2 Components on-board the vehicle of the systems ensuring the correct...
 - 3.2.12.2 Torque limiter: yes/no (1)
 - 3.2.13.1 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)
 - 3.2.17.8(Euro VI only) Self adaptive feature? Yes/No (1)
 - 3.2.17.8(Euro VI only) Calibration for a specific gas composition NG-H/NG-L/NG-HL (...)
- 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: ...
- 3.4. Engine or motor combination
 - 3.4.1. Hybrid electric vehicle: yes/no (1)
 - 3.4.2. Category of hybrid electric vehicle: off-vehicle charging/not off-vehicle charging: (...)
 - 3.5.4. (Euro VI only) CO 2 emissions for heavy duty engines...
 - 3.5.4.1. (Euro VI only) CO 2 mass emissions WHSC test:
 - 3.5.4.2. (Euro VI only) CO 2 mass emissions WHTC test:
 - 3.5.5. (Euro VI only) Fuel consumption for heavy duty engines
 - 3.5.5.1. (Euro VI only) Fuel consumption WHSC test: ... g/kWh
 - 3.5.5.2. (Euro VI only) Fuel consumption WHTC test: ... g/kWh
 - 3.6.5. Lubricant temperature
- 4. TRANSMISSION (p)
 - 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 design speed (in km/h) (q)
 - 4.9. Tachograph: yes/no (1)
 - 4.9.1 Approval mark: ...
- 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...
 - 6.2.4. Air-suspension for non-driving axle(s): yes/no (1)
 - 6.2.4.1. Suspension of non-driving axle(s) equivalent to air-suspension: yes/no (1...
 - 6.6.1. Tyre/wheel combination(s)
 - 6.6.1.1. Axles
 - 6.6.1.1.1Axle 1: ...
 - 6.6.1.1.2Axle 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 system according to item 1.6...
 - 8.11. Particulars of the type(s) of endurance braking system(s): ...
- 9. BODYWORK
 - 9.1. Type of bodywork using the codes set out in Part...
 - 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. Rear-view mirrors, stating, for each rear-view mirror:
 - 9.9.1.1. Make: ...
 - 9.9.1.2. Type-approval mark: ...
 - 9.9.1.3. Variant: ...
 - 9.9.1.6. Optional equipment which may affect the rearward field of vision:...
 - 9.9.2. Devices for indirect vision other than mirrors: ...
 - 9.9.2.1. Type and description of the device: ...
 - 9.10. Interior arrangement
 - 9.10.3. Seats
 - 9.10.3.1. Number of seating positions (s): ...
 - 9.10.3.1. Location and arrangement: ...
 - 9.10.3.2. 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: ...
 - 9.10.8. Gas used as refrigerant in the air-conditioning system:
 - ...
 - 9.10.8.1. The air-conditioning system is designed to contain fluorinated greenhouse gases...
 - 9.12.2. Nature and position of supplementary restraint systems (indicate yes/no/optional):
 - 9.17. Statutory plates
 - 9.17.1. Photographs and/or drawings of the locations of the statutory plates...
 - 9.17.2. Photographs and/or drawings of the statutory plate and inscriptions (completed...
 - 9.17.3. Photographs and/or drawings of the vehicle identification number (completed example...
 - 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...
 - 9.22. Front under-run protection
 - 9.22.0. Presence: yes/no/incomplete (1)
 - 9.23. Pedestrian protection
 - 9.23.1. A detailed description, including photographs and/or drawings, of the vehicle...
 - 9.24. Frontal protection systems
 - 9.24.1. General arrangement (drawings or photographs) indicating the position and attachment of...

- 9.24.3. Complete details of fittings required and full instructions, including torque...
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. Type-approval number(s): ...
 12. MISCELLANEOUS
 - 12.7.1. Vehicle equipped with a 24 GHz short-range radar equipment: yes/no...
 13. SPECIAL PROVISIONS FOR BUSES AND COACHES
 - 13.1. Class of vehicle: Class I/Class II/Class III/Class A/Class B (...
 - 13.1.2. Chassis types where the type-approved bodywork can be installed (manufacturer(s),...
 - 13.3. Number of passengers (seated and standing)
 - 13.3.1. Total (N): ...
 - 13.3.2. Upper deck (N a) (1): ...
 - 13.3.3. Lower deck (N b) (1): ...
 - 13.4. Number of passengers (seated)
 - 13.4.1. Total (A): ...
 - 13.4.2. Upper deck (A a) (1): ...
 - 13.4.3. Lower deck (A b) (1): ...
 - 13.4.4. Number of wheelchair positions for category M 2 and M...
 16. ACCESS TO VEHICLE REPAIR AND MAINTENANCE INFORMATION
 - 16.1. Address of principal website for access to vehicle repair and...
- B. 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. 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: ...
 - 1.3. Number of axles and wheels: ...
 - 1.3.1. Number and position of axles with twin wheels: ...
 - 1.3.2. Number and position of steered axles: ...
 - 1.4. Chassis (if any) (overall drawing): ...
 2. MASSES AND DIMENSIONS (f)(g)
 - 2.1. Wheelbase(s) (fully loaded) (g 1):
 - 2.1.1. Two-axle vehicles: ...
 - 2.1.2. Vehicles with three or more axles
 - 2.1.2.1. Axle spacing between consecutive axles going from the foremost to...
 - 2.1.2.2. Total axle spacing: ...
 - 2.3.1. Track of each steered axle (g 4): ...

- 2.3.2. Track of all other axles (g4): ...
- 2.4. Range of vehicle dimensions (overall)
 - 2.4.1. For chassis without bodywork
 - 2.4.1.1. Length (g5): ...
 - 2.4.1.1.1. Maximum permissible length: ...
 - 2.4.1.1.2. Minimum permissible length: ...
 - 2.4.1.1.3. In the case of trailers, maximum permissible drawbar length (...
 - 2.4.1.2. Width (g7): ...
 - 2.4.1.2.1. Maximum permissible width: ...
 - 2.4.1.2.2. Minimum permissible width: ...
 - 2.4.2. For chassis with bodywork
 - 2.4.2.1. Length (g5): ...
 - 2.4.2.1.1. Length of the loading area: ...
 - 2.4.2.1.2. In the case of trailers, maximum permissible drawbar length (...
 - 2.4.2.2. Width (g7): ...
 - 2.4.2.2.1. Thickness of the walls (in the case of vehicles designed...
 - 2.4.2.3. Height (in running order) (g8) (for suspension adjustable...
- 2.6. Mass in running order
 - 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 (...
 - 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...
 - 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...
- 4. TRANSMISSION
 - 4.7. Maximum vehicle design speed (in km/h) (q)
- 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)
 - 6.2.4. Air-suspension for non-driving axle(s): yes/no (1)
 - 6.2.4.1. Suspension of non-driving axle(s) equivalent to air-suspension: yes/no (1...
 - 6.6.1. Tyre/wheel combination(s)
 - 6.6.1.1. Axles
 - 6.6.1.1.1Axle 1: ...
 - 6.6.1.1.2Axle 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 system, according to item 1.6...
- 9. BODYWORK
 - 9.1. Type of bodywork using the codes defined in Part C...
 - 9.17. Statutory plates
 - 9.17.1. Photographs and/or drawings of the locations of the statutory plates...
 - 9.17.2. Photographs and/or drawings of the statutory plate and inscriptions (completed...
 - 9.17.3. Photographs and/or drawings of the vehicle identification number (completed example...
 - 9.17.4.1The meaning of characters in the second section and, if...
 - 9.17.4.2If 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. Type-approval number(s): ...

PART II

Matrix showing the combinations of the entries listed in Part I within the versions and variants of the vehicle type

PART III

Type-approval numbers

Signed: ...
Position in company: ...
Date: ...

ANNEX IV

REQUIREMENTS FOR THE PURPOSE OF EC TYPE-APPROVAL OF VEHICLES

PART I

List of regulatory acts for EC type-approval of vehicles produced in unlimited series

Appendix Requirements for type-approval of vehicles belonging to the category M...

PART II

List of UNECE regulations recognised as an alternative
to directives or regulations mentioned in Part I

ANNEX V

PROCEDURES TO BE FOLLOWED WITH RESPECT TO EC TYPE-APPROVAL

0. Objectives and scope
 - 0.1. This Annex establishes the procedures for the proper operation of...
 - 0.2. It also includes:
1. Type-approval process
2. Combination of technical specifications
3. Specific provisions

Appendix 1

Standards with which the entities referred to in Article 41...

1. Activities related to testing for type-approval, to be carried out...
2. Activities related to Conformity of Production
 - 2.1. Category C (procedure for the Initial Assessment and surveillance audits...
 - 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 shall have been trained specifically for assessment activities....
- 3.3. Without prejudice to points 3.1 and 3.2 of this Appendix,...
4. Application for designation
 - 4.1. A duly authorised representative of the applicant technical service shall...
 - 4.2. The competent authority shall 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 shall take into account accreditation certificates with...
7. Preparation for assessment
 - 7.1. The competent authority shall formally appoint an assessment team. The...
 - 7.2. The competent authority shall clearly define the assignment given to...
 - 7.3. The competent authority shall agree, together with the technical service...
 - 7.4. The competent authority shall ensure that the assessment team is...
8. On-site assessment
9. Analysis of findings and assessment report
 - 9.1. The assessment team shall analyse all relevant information and evidence...
 - 9.2. The competent authority's reporting procedures shall ensure that the following...
 - 9.3. The competent authority shall ensure that the responses of the...
 - 9.4. The assessment report shall include, as a minimum the following:...
10. Granting/confirming a designation
 - 10.1. The approval authority shall, without undue delay, make the decision...
 - 10.2. The approval authority shall 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 shall design its plan for reassessment and...
 - 11.3. When, during surveillance or reassessments, non-conformities 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 shall maintain records on technical services to...
 - 12.2. The competent authority shall keep the records on technical services...
 - 12.3. Records on technical services shall include at least the following:...

Appendix 3

General requirements concerning the format of the test reports

1. For each of the regulatory acts listed in Part I...
2. The template of the test reports shall be laid down...
3. The test report shall be drafted in the official language...

4. Moreover it shall include at least the following information:
5. When the tests are conducted on a vehicle, component or...

ANNEX VI

MODELS OF THE TYPE-APPROVAL CERTIFICATE

MODEL A (to be used for type-approval of a vehicle) Maximum format:...Maximum
format: A4 (210 × 297 mm) EC VEHICLE TYPE-APPROVAL...
EC VEHICLE 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...

EC VEHICLE TYPE-APPROVAL CERTIFICATE

Appendix List 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 type-approval of a system or type-approval...Maximum
format: A4 (210 × 297 mm) EC TYPE-APPROVAL CERTIFICATE...
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. 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. 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...

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:
- Annex 01 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 a type-approval for a whole vehicle,...
3. On the vehicle's statutory plate(s) only, Section 5 shall be...
4. Layouts of the type-approval numbers
- 4.1. Example of a third type-approval (which as yet no extension)...
- 4.2. Example of the second extension to the fourth vehicle type-approval...
- 4.3. Example of a whole vehicle type-approval granted to a vehicle...
- 4.4. Example of a national type-approval granted to a vehicle produced...
- 4.5. Example of the type-approval number to be stamped on the...
5. Annex VII does not apply to UNECE Regulations listed in...

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...
- 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 CO₂ emission/fuel consumption tests

ANNEX IX

EC CERTIFICATE OF CONFORMITY

0. OBJECTIVES
1. GENERAL DESCRIPTION
 - 1.1. The certificate of conformity shall consist of two parts.
 - 1.2. The certificate of conformity shall be established in a maximum...
 - 1.3. Without prejudice to the provisions in Section O(b), the values...
2. SPECIAL PROVISIONS
 - 2.1. Model A of the certificate of conformity (complete vehicle) shall...
 - 2.2. Model B of the certificate of conformity (completed vehicles) shall...
 - 2.3. Model C of the certificate of conformity (incomplete vehicles) shall...

PART I

COMPLETE AND COMPLETED VEHICLES

MODEL COMPLETE VEHICLES

Side 1

MODEL COMPLETE VEHICLES TYPE-APPROVED IN SMALL SERIES [Year] [Sequential number] EC CERTIFICATE OF CONFORMITY Side 1 The...

Side 1

MODEL COMPLETED VEHICLES

Side 1

SIDE 2 VEHICLE CATEGORY M 1 (complete and completed vehicles) Side 2 General construction characteristics 1....

Side 2

General construction characteristics

1. Number of axles: ... and wheels: ...
3. Powered axles (number, position, interconnection):

Main dimensions

4. Wheelbase (e): ... mm
5. Length: ... mm
6. Width: ... mm
7. Height: ... mm

Masses

13. Mass of the vehicle in running order: ... kg (...)
16. Technically permissible maximum masses
18. Technically permissible maximum towable mass in case of:
19. Technically permissible maximum static vertical mass at the
coupling point:...

Power plant

20. Manufacturer of the engine: ...
21. Engine code as marked on the engine: ...
22. Working principle: ...
23. Pure electric: yes/no (1)
24. Number and arrangement of cylinders: ...
25. Engine capacity: ... cm³
26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/
Biodiesel/Hydrogen (1)
27. Maximum net power (g): ... kW at

Maximum speed

29. Maximum speed: ... km/h

Axles and suspension

30. Axle(s) track:
35. Tyre/wheel combination (h): ...

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/
hydraulic (1)

Bodywork

38. Code for bodywork (i): ...
40. Colour of vehicle (j): ...
41. Number and configuration of doors: ...

42. Number of seating positions (including the driver) (k):...
- Environmental performances
46. Sound level
47. Exhaust emission level (l): Euro ...
48. Exhaust emissions (m):
49. CO₂ emissions/fuel consumption/electric energy consumption (m):
- Miscellaneous
51. For special purpose vehicles: designation in accordance with Annex II...
52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORY M 2 (complete and completed vehicles) Side 2 General construction characteristics 1....

Side 2

General construction characteristics

1. Number of axles: ... and wheels: ...
2. Steered axles (number, position): ...
3. Powered axles (number, position, interconnection):

Main dimensions

4. Wheelbase (e): ... mm
5. Length: ... mm
6. Width: ... mm
7. Height: ... mm
9. Distance between the front end of the vehicle and the...
12. Rear overhang: ... mm

Masses

13. Mass of the vehicle in running order: ... kg (...)
16. Technically permissible maximum masses
17. Intended registration/in service maximum permissible masses in national/international traffic (...)
18. Technically permissible maximum towable mass in case of:
19. Technically permissible maximum static mass at the coupling point:

Power plant

20. Manufacturer of the engine: ...
21. Engine code as marked on the engine: ...
22. Working principle: ...
23. Pure electric: yes/no (1)
24. Number and arrangement of cylinders: ...
25. Engine capacity: ... cm³
26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/Biodiesel/Hydrogen (1)
27. Maximum net power (g): ... kW at
28. Gearbox (type): ...

Maximum speed

29. Maximum speed: ... km/h

Axles and suspension

30. Axle(s) track:
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (...)
35. Tyre/wheel combination (h): ...

Brakes

- 36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (1)
- 37. Pressure in feed line for trailer braking system: ... bar...
- Bodywork
- 38. Code for bodywork (i): ...
- 39. Class of vehicle: class I/Class II/Class III/Class A/Class B (...)
- 41. Number and configuration of doors: ...
- 42. Number of seating positions (including the driver) (k):...
- 43. Number of standing places: ...
- Coupling device
- 44. Approval number or approval mark of coupling device (if fitted):...
- 45.1. Characteristics values (1): D: .../ V: .../ S:...
- Environmental performances
- 46. Sound level
- 47. Exhaust emission level (1): Euro ...
- 48. Exhaust emissions (m):
- Miscellaneous
- 51. For special purpose vehicles: designation in accordance with Annex II...
- 52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORY M 3 (complete and completed vehicles) Side 2 General construction characteristics 1....

Side 2

General construction characteristics

- 1. Number of axles: ... and wheels: ...
- 2. Steered axles (number, position): ...
- 3. Powered axles (number, position, interconnection):

Main dimensions

- 4. Wheelbase (e): ... mm
- 5. Length: ... mm
- 6. Width: ... mm
- 7. Height: ... mm
- 9. Distance between the front end of the vehicle and the...
- 12. Rear overhang: ... mm

Masses

- 13. Mass of the vehicle in running order: ... kg (...)
- 16. Technically permissible maximum masses
- 17. Intended registration/in service maximum permissible masses in national/international traffic (...)
- 18. Technically permissible maximum towable mass in case of:
- 19. Technically permissible maximum static mass at the coupling point:

Power plant

- 20. Manufacturer of the engine: ...
- 21. Engine code as marked on the engine: ...
- 22. Working principle: ...
- 23. Pure electric: yes/no (1)
- 24. Number and arrangement of cylinders: ...
- 25. Engine capacity: ... cm³
- 26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/Biodiesel/Hydrogen (1)

27. Maximum net power (g): ... kW at
28. Gearbox (type): ...
- Maximum speed
29. Maximum speed: ... km/h
- Axles and suspension
- 30.1. Track of each steered axle: ... mm
- 30.2. Track of all other axles: ... mm
32. Position of loadable axle(s): ...
33. Drive axle(s) fitted with air suspension or equivalent: yes/no
(...)
35. Tyre/wheel combination (h): ...
- Brakes
36. Trailer brake connections mechanical/electric/pneumatic/
hydraulic (1)
37. Pressure in feed line for trailer braking system: ... bar...
- Bodywork
38. Code for bodywork (i): ...
39. Class of vehicle: class I/Class II/Class III/Class A/Class B (...)
41. Number and configuration of doors: ...
42. Number of seating positions (including the driver) (k):...
43. Number of standing places: ...
- Coupling device
44. Approval number or approval mark of coupling device (if
fitted):...
- 45.1. Characteristics values (1): D: .../ V: .../ S:...
- Environmental performances
46. Sound level
47. Exhaust emission level (1): Euro ...
48. Exhaust emissions (m): ...
- Miscellaneous
51. For special purpose vehicles: designation in accordance with
Annex II...
52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORY N 1 (complete and completed vehicles) Side 2 General
construction characteristics 1....

Side 2

- General construction characteristics
1. Number of axles: ... and wheels: ...
3. Powered axles (number, position, interconnection):
- Main dimensions
4. Wheelbase (e): ... mm
5. Length: ... mm
6. Width: ... mm
7. Height: ... mm
8. Fifth wheel lead for semi-trailer towing vehicle (maximum and
minimum):...
9. Distance between the front end of the vehicle and the...
11. Length of the loading area: ... mm
- Masses
13. Mass of the vehicle in running order: ... kg (...)
16. Technically permissible maximum masses
18. Technically permissible maximum towable mass in case of:

19. Technically permissible maximum static mass at the coupling point:
- Power plant
20. Manufacturer of the engine: ...
21. Engine code as marked on the engine: ...
22. Working principle: ...
23. Pure electric: yes/no (1)
24. Number and arrangement of cylinders: ...
25. Engine capacity: ... cm³
26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/Biodiesel/Hydrogen (1)
27. Maximum net power (g): ... kW at
28. Gearbox (type): ...
- Maximum speed
29. Maximum speed: ... km/h
- Axles and suspension
30. Axle(s) track:
35. Tyre/wheel combination (h): ...
- Brakes
36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (1)
37. Pressure in feed line for trailer braking system: ... bar...
- Bodywork
38. Code for bodywork (i): ...
40. Colour of vehicle (j): ...
41. Number and configuration of doors: ...
42. Number of seating positions (including the driver) (k):...
- Coupling device
44. Approval number or approval mark of coupling device (if fitted):...
- 45.1. Characteristics values (1): D: .../ V: .../ S:...
- Environmental performances
46. Sound level
47. Exhaust emission level (1): Euro ...
48. Exhaust emissions (m):
49. CO₂ emissions/fuel consumption/electric energy consumption (m):
- Miscellaneous
50. Type-approved according to the design requirements for transporting dangerous goods:...
51. For special purpose vehicles: designation in accordance with Annex II...
52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORY N 2 (complete and completed vehicles) Side 2 General construction characteristics 1....

Side 2

General construction characteristics

1. Number of axles: ... and wheels: ...
2. Steered axles (number, position): ...
3. Powered axles (number, position, interconnection):
- Main dimensions
4. Wheelbase (e): ... mm

5. Length: ... mm
6. Width: ... mm
8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
9. Distance between the front end of the vehicle and the...
11. Length of the loading area: ... mm
12. Rear overhang: ... mm
- Masses
13. Mass of the vehicle in running order: ... kg (...)
16. Technically permissible maximum masses
17. Intended registration/in service maximum permissible masses in national/international traffic (...)
18. Technically permissible maximum towable mass in case of:
19. Technically permissible maximum static mass at the coupling point:
- Power plant
20. Manufacturer of the engine: ...
21. Engine code as marked on the engine: ...
22. Working principle: ...
23. Pure electric: yes/no (1)
24. Number and arrangement of cylinders: ...
25. Engine capacity: ... cm³
26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/Biodiesel/Hydrogen (1)
27. Maximum net power (g): ... kW at
28. Gearbox (type): ...
- Maximum speed
29. Maximum speed: ... km/h
- Axles and suspension
31. Position of lift axle(s): ...
32. Position of loadable axle(s): ...
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (...)
35. Tyre/wheel combination (h): ...
- Brakes
36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (1)
37. Pressure in feed line for trailer braking system: ... bar...
- Bodywork
38. Code for bodywork (i): ...
41. Number and configuration of doors: ...
42. Number of seating positions (including the driver) (k):...
- Coupling device
44. Approval number or approval mark of coupling device (if fitted):...
- 45.1. Characteristics values (1): D: .../ V: .../ S:...
- Environmental performances
46. Sound level
47. Exhaust emission level (1): Euro ...
48. Exhaust emissions (m): ...
- Miscellaneous
50. Type-approved according to the design requirements for transporting dangerous goods:...

51. For special purpose vehicles: designation in accordance with Annex II...
52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORY N 3 (complete and completed vehicles) Side 2 General construction characteristics 1....

Side 2

General construction characteristics

1. Number of axles: ... and wheels: ...
2. Steered axles (number, position): ...
3. Powered axles (number, position, interconnection):

Main dimensions

4. Wheelbase (e): ... mm
5. Length: ... mm
6. Width: ... mm
8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
9. Distance between the front end of the vehicle and the...
11. Length of the loading area: ... mm
12. Rear overhang: ... mm

Masses

13. Mass of the vehicle in running order: ... kg (...)
16. Technically permissible maximum masses
17. Intended registration/in service maximum permissible masses in national/international traffic (...)
18. Technically permissible maximum towable mass in case of:
19. Technically permissible maximum static mass at the coupling point:

Power plant

20. Manufacturer of the engine: ...
21. Engine code as marked on the engine: ...
22. Working principle: ...
23. Pure electric: yes/no (1)
24. Number and arrangement of cylinders: ...
25. Engine capacity: ... cm³
26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/Biodiesel/Hydrogen (1)
27. Maximum net power (g): ... kW at
28. Gearbox (type): ...

Maximum speed

29. Maximum speed: ... km/h

Axles and suspension

31. Position of lift axle(s): ...
32. Position of loadable axle(s): ...
33. Drive axle(s) fitted with air suspension or equivalent: yes/no (...)
35. Tyre/wheel combination (h): ...

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (1)
37. Pressure in feed line for trailer braking system: ... bar...

Bodywork

38. Code for bodywork (i): ...

- 41. Number and configuration of doors: ...
- 42. Number of seating positions (including the driver) (k):...
- Coupling device
- 44. Approval number or approval mark of coupling device (if fitted):...
- 45.1. Characteristics values (1): D: .../ V: .../ S:...
- Environmental performances
- 46. Sound level
- 47. Exhaust emission level (1): Euro ...
- 48. Exhaust emissions (m):
- Miscellaneous
- 50. Type-approved according to the design requirements for transporting dangerous goods:...
- 51. For special purpose vehicles: designation in accordance with Annex II...
- 52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORIES O 1 AND O 2 (complete and completed vehicles) Side 2
General construction characteristics 1....

Side 2

General construction characteristics

- 1. Number of axles: ... and wheels: ...

Main dimensions

- 4. Wheelbase (e): ... mm
- 5. Length: ... mm
- 6. Width: ... mm
- 7. Height: ... mm
- 10. Distance between the centre of the coupling device and the...
- 11. Length of the loading area: ... mm
- 12. Rear overhang: ... mm

Masses

- 13. Mass of the vehicle in running order: ... kg (...)
- 16. Technically permissible maximum masses
- 19. Technically permissible maximum static mass on the coupling point of...

Maximum speed

- 29. Maximum speed: ... km/h

Axles and suspension

- 30.1. Track of each steered axle: ... mm
- 30.2. Track of all other axles: ... mm
- 31. Position of lift axle(s): ...
- 32. Position of loadable axle(s): ...
- 34. Axle(s) fitted with air suspension or equivalent: yes/no (1...
- 35. Tyre/wheel combination (h): ...

Brakes

- 36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (1)

Bodywork

- 38. Code for bodywork (i): ...

Coupling device

- 44. Approval number or approval mark of coupling device (if fitted):...
- 45.1. Characteristics values (1): D: .../ V: .../ S:...

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods:...
51. For special purpose vehicles: designation in accordance with Annex II...
52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORIES O 3 AND O 4 (complete and completed vehicles) Side 2
General construction characteristics 1....

Side 2

General construction characteristics

1. Number of axles: ... and wheels: ...
2. Steered axles (number, position): ...

Main dimensions

4. Wheelbase (e): ... mm
5. Length: ... mm
6. Width: ... mm
7. Height: ... mm
10. Distance between the centre of the coupling device and the...
11. Length of the loading area: ... mm
12. Rear overhang: ... mm

Masses

13. Mass of the vehicle in running order: ... kg (...)
16. Technically permissible maximum masses
17. Intended registration/in service maximum permissible masses in national/international traffic (...)
19. Technically permissible maximum static mass on the coupling point of...

Maximum speed

29. Maximum speed: ... km/h

Axles and suspension

31. Position of lift axle(s): ...
32. Position of loadable axle(s): ...
34. Axle(s) fitted with air suspension or equivalent: yes/no (1...
35. Tyre/wheel combination (h): ...

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (1)

Bodywork

38. Code for bodywork (i): ...

Coupling device

44. Approval number or approval mark of coupling device (if fitted):...
- 45.1. Characteristics values (1): D: .../ V: .../ S:...

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods:...
51. For special purpose vehicles: designation in accordance with Annex II...
52. Remarks (n): ...

PART II

INCOMPLETE VEHICLES

MODELS OF INCOMPLETE VEHICLES

Side 1

MODELS OF INCOMPLETE VEHICLES TYPE-APPROVED IN SMALL SERIES [Year] [Sequential number] EC CERTIFICATE OF CONFORMITY Side 1 The...

Side 1

SIDE 2 VEHICLE CATEGORY M 1 (incomplete vehicles) Side 2 General construction characteristics 1. Number of...

Side 2

General construction characteristics

1. Number of axles: ... and wheels: ...
3. Powered axles (number, position, interconnection):

Main dimensions

4. Wheelbase (e): ... mm
- 5.1. Maximum permissible length: ... mm
- 6.1. Maximum permissible width: ... mm
- 7.1. Maximum permissible height: ... mm
- 12.1. Maximum permissible rear overhang: ... mm

Masses

14. Mass of the incomplete vehicle in running order: ... kg...
15. Minimum mass of the vehicle when completed: ... kg
16. Technically permissible maximum masses
18. Technically permissible maximum towable mass in case of:
19. Technically permissible maximum static vertical mass at the
coupling point:...

Power plant

20. Manufacturer of the engine: ...
21. Engine code as marked on the engine: ...
22. Working principle: ...
23. Pure electric: yes/no (1)
24. Number and arrangement of cylinders: ...
25. Engine capacity: ... cm³
26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/
Biodiesel/Hydrogen (1)
27. Maximum net power (g): ... kW at

Maximum speed

29. Maximum speed: ... km/h

Axles and suspension

30. Axle(s) track:
35. Tyre/wheel combination (h): ...

Brakes

36. Trailer brake connections mechanical/electric/pneumatic/
hydraulic (1)

Bodywork

41. Number and configuration of doors: ...
42. Number of seating positions (including the driver) (k):...

Environmental performances

46. Sound level

- 47. Exhaust emission level (1): Euro ...
- 48. Exhaust emissions (m):
- 49. CO₂ emissions/fuel consumption/electric energy consumption (m):
- Miscellaneous
- 52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORY M 2 (incomplete vehicles) Side 2 General construction characteristics 1. Number of...

Side 2

General construction characteristics

- 1. Number of axles: ... and wheels: ...
- 2. Steered axles (number, position): ...
- 3. Powered axles (number, position, interconnection):

Main dimensions

- 4. Wheelbase (e): ... mm
- 5.1. Maximum permissible length: ... mm
- 6.1. Maximum permissible width: ... mm
- 7.1. Maximum permissible height: ... mm
- 12.1. Maximum permissible rear overhang: ... mm

Masses

- 14. Mass of the incomplete vehicle in running order: ... kg...
- 15. Minimum mass of the vehicle when completed: ... kg
- 16. Technically permissible maximum masses
- 17. Intended registration/in service maximum permissible masses in national/international traffic (...)
- 18. Technically permissible maximum towable mass in case of:
- 19. Technically permissible maximum static mass at the coupling point:

Power plant

- 20. Manufacturer of the engine: ...
- 21. Engine code as marked on the engine: ...
- 22. Working principle: ...
- 23. Pure electric: yes/no (1)
- 24. Number and arrangement of cylinders: ...
- 25. Engine capacity: ... cm³
- 26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/Biodiesel/Hydrogen (1)
- 27. Maximum net power (g): ... kW at
- 28. Gearbox (type): ...

Maximum speed

- 29. Maximum speed: ... km/h

Axles and suspension

- 30. Axle(s) track:
- 33. Drive axle(s) fitted with air suspension or equivalent: yes/no (...)
- 35. Tyre/wheel combination (h): ...

Brakes

- 36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (1)
- 37. Pressure in feed line for trailer braking system: ... bar...

Coupling device

- 44. Approval number or approval mark of coupling device (if fitted):...
- 45. Type or classes of coupling devices which can be fitted:...
- 45.1. Characteristics values (1): D: .../ V: .../ S:...
- Environmental performances
- 46. Sound level
- 47. Exhaust emission level (1): Euro ...
- 48. Exhaust emissions (m):
- Miscellaneous
- 52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORY M 3 (incomplete vehicles) Side 2 General construction characteristics 1. Number of...

Side 2

General construction characteristics

- 1. Number of axles: ... and wheels: ...
- 2. Steered axles (number, position): ...
- 3. Powered axles (number, position, interconnection):

Main dimensions

- 4. Wheelbase (e): ... mm
- 5.1. Maximum permissible length: ... mm
- 6.1. Maximum permissible width: ... mm
- 7.1. Maximum permissible height: ... mm
- 12.1. Maximum permissible rear overhang: ... mm

Masses

- 14. Mass of the incomplete vehicle in running order: ... kg...
- 15. Minimum mass of the vehicle when completed: ... kg
- 16. Technically permissible maximum masses
- 17. Intended registration/in service maximum permissible masses in national/international traffic (...)
- 18. Technically permissible maximum towable mass in case of:
- 19. Technically permissible maximum static mass at the coupling point:

Power plant

- 20. Manufacturer of the engine: ...
- 21. Engine code as marked on the engine: ...
- 22. Working principle: ...
- 23. Pure electric: yes/no (1)
- 24. Number and arrangement of cylinders: ...
- 25. Engine capacity: ... cm³
- 26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/Biodiesel/Hydrogen (1)
- 27. Maximum net power (g): ... kW at
- 28. Gearbox (type): ...

Maximum speed

- 29. Maximum speed: ... km/h

Axles and suspension

- 30.1. Track of each steered axle: ... mm
- 30.2. Track of all other axles: ... mm
- 32. Position of loadable axle(s): ...
- 33. Drive axle(s) fitted with air suspension or equivalent: yes/no (...)
- 35. Tyre/wheel combination (h): ...

Brakes

- 36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (1)
- 37. Pressure in feed line for trailer braking system: ... bar...

Coupling device

- 44. Approval number or approval mark of coupling device (if fitted):...
- 45. Types or classes of coupling devices which can be fitted:...

Environmental performances

- 46. Sound level
- 47. Exhaust emission level (1): Euro ...
- 48. Exhaust emissions (m):

Miscellaneous

- 52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORY N 1 (incomplete vehicles) Side 2 General construction characteristics 1. Number of...

Side 2

General construction characteristics

- 1. Number of axles: ... and wheels: ...
- 3. Powered axles (number, position, interconnection):

Main dimensions

- 4. Wheelbase (e): ... mm
- 5.1. Maximum permissible length: ... mm
- 6.1. Maximum permissible width: ... mm
- 7.1. Maximum permissible height: ... mm
- 8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
- 12.1. Maximum permissible rear overhang: ... mm

Masses

- 14. Mass of the incomplete vehicle in running order: ... kg...
- 15. Minimum mass of the vehicle when completed: ... kg
- 16. Technically permissible maximum masses
- 18. Technically permissible maximum towable mass in case of:
- 19. Technically permissible maximum static mass at the coupling point:

Power plant

- 20. Manufacturer of the engine: ...
- 21. Engine code as marked on the engine: ...
- 22. Working principle: ...
- 23. Pure electric: yes/no (1)
- 24. Number and arrangement of cylinders: ...
- 25. Engine capacity: ... cm³
- 26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/Biodiesel/Hydrogen (1)
- 27. Maximum net power (g): ... kW at
- 28. Gearbox (type): ...

Maximum speed

- 29. Maximum speed: ... km/h

Axles and suspension

- 30. Axle(s) track:
- 35. Tyre/wheel combination (h): ...

Brakes

- 36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (1)
- 37. Pressure in feed line for trailer braking system: ... bar...
- Coupling device
- 44. Approval number or approval mark of coupling device (if fitted):...
- 45. Types or classes of coupling devices which can be fitted:...
- Environmental performances
- 46. Sound level
- 47. Exhaust emission level (1): Euro ...
- 48. Exhaust emissions (m):
- 49. CO₂ emissions/fuel consumption/electric energy consumption (m):
- Miscellaneous
- 52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORY N 2 (incomplete vehicles) Side 2 General construction characteristics 1. Number of...

Side 2

General construction characteristics

- 1. Number of axles: ... and wheels: ...
- 2. Steered axles (number, position): ...
- 3. Powered axles (number, position, interconnection):

Main dimensions

- 4. Wheelbase (e): ... mm
- 5.1. Maximum permissible length: ... mm
- 6.1. Maximum permissible width: ... mm
- 8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
- 12.1. Maximum permissible rear overhang: ... mm

Masses

- 14. Mass of the incomplete vehicle in running order: ... kg...
- 15. Minimum mass of the vehicle when completed: ... kg
- 16. Technically permissible maximum masses
- 17. Intended registration/in service maximum permissible masses in national/international traffic (...)
- 18. Technically permissible maximum towable mass in case of:
- 19. Technically permissible maximum static mass at the coupling point:

Power plant

- 20. Manufacturer of the engine: ...
- 21. Engine code as marked on the engine: ...
- 22. Working principle: ...
- 23. Pure electric: yes/no (1)
- 24. Number and arrangement of cylinders: ...
- 25. Engine capacity: ... cm³
- 26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/Biodiesel/Hydrogen (1)
- 27. Maximum net power (g): ... kW at
- 28. Gearbox (type): ...

Maximum speed

- 29. Maximum speed: ... km/h

Axles and suspension

- 31. Position of lift axle(s): ...
- 32. Position of loadable axle(s): ...
- 33. Drive axle(s) fitted with air suspension or equivalent: yes/no (...)
- 35. Tyre/wheel combination (h): ...
- Brakes
- 36. Trailer brake connections mechanical/electric/pneumatic/hydraulic (1)
- 37. Pressure in feed line for trailer braking system: ... bar...
- Coupling device
- 44. Approval number or approval mark of coupling device (if fitted):...
- 45. Types or classes of coupling devices which can be fitted:...
- Environmental performances
- 46. Sound level
- 47. Exhaust emission level (1): Euro ...
- 48. Exhaust emissions (m):
- Miscellaneous
- 52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORY N 3 (incomplete vehicles) Side 2 General construction characteristics 1. Number of...

Side 2

- General construction characteristics
- 1. Number of axles: ... and wheels: ...
- 2. Steered axles (number, position): ...
- 3. Powered axles (number, position, interconnection):
- Main dimensions
- 4. Wheelbase (e): ... mm
- 5.1. Maximum permissible length: ... mm
- 6.1. Maximum permissible width: ... mm
- 8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum):...
- 12.1. Maximum permissible rear overhang: ... mm
- Masses
- 14. Mass of the incomplete vehicle in running order: ... kg...
- 15. Minimum mass of the vehicle when completed: ... kg
- 16. Technically permissible maximum masses
- 17. Intended registration/in service maximum permissible masses in national/international traffic (...)
- 18. Technically permissible maximum towable mass in case of:
- 19. Technically permissible maximum static mass at the coupling point:
- Power plant
- 20. Manufacturer of the engine: ...
- 21. Engine code as marked on the engine: ...
- 22. Working principle: ...
- 23. Pure electric: yes/no (1)
- 24. Number and arrangement of cylinders: ...
- 25. Engine capacity: ... cm³
- 26. Fuel: Diesel/petrol/LPG/NG — Biomethane/Ethanol/Biodiesel/Hydrogen (1)
- 27. Maximum net power (g): ... kW at

- 28. Gearbox (type): ...
- Maximum speed
- 29. Maximum speed: ... km/h
- Axles and suspension
- 31. Position of lift axle(s): ...
- 32. Position of loadable axle(s): ...
- 33. Drive axle(s) fitted with air suspension or equivalent: yes/no
(...)
- 35. Tyre/wheel combination (h): ...
- Brakes
- 36. Trailer brake connections mechanical/electric/pneumatic/
hydraulic (1)
- 37. Pressure in feed line for trailer braking system: ... bar...
- Coupling device
- 44. Approval number or approval mark of coupling device (if
fitted):...
- 45. Types or classes of coupling devices which can be fitted:...
- Environmental performances
- 46. Sound level
- 47. Exhaust emission level (1): Euro ...
- 48. Exhaust emissions (m):
- Miscellaneous
- 52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORIES O 1 AND O 2 (incomplete vehicles) Side 2 General
construction characteristics 1. Number of...

Side 2

- General construction characteristics
- 1. Number of axles: ... and wheels: ...
- Main dimensions
- 4. Wheelbase (e): ... mm
- 5.1. Maximum permissible length: ... mm
- 6.1. Maximum permissible width: ... mm
- 7.1. Maximum permissible height: ... mm
- 10. Distance between the centre of the coupling device and the...
- 12.1. Maximum permissible rear overhang: ... mm
- Masses
- 14. Mass of the incomplete vehicle in running order: ... kg...
- 15. Minimum mass of the vehicle when completed: ... kg
- 16. Technically permissible maximum masses
- 19.1. Technically permissible maximum static mass on the coupling
point of...
- Maximum speed
- 29. Maximum speed: ... km/h
- Axles and suspension
- 30.1. Track of each steered axle: ... mm
- 30.2. Track of all other axles: ... mm
- 31. Position of lift axle(s): ...
- 32. Position of loadable axle(s): ...
- 34. Axle(s) fitted with air suspension or equivalent: yes/no (1...
- 35. Tyre/wheel combination (h): ...
- Coupling device

- 44. Approval number or approval mark of coupling device (if fitted):...
- 45. Types or classes of coupling devices which can be fitted:...
- Miscellaneous
- 52. Remarks (n): ...

SIDE 2 VEHICLE CATEGORIES O 3 AND O 4 (incomplete vehicles) Side 2 General construction characteristics 1. Number of...

Side 2

General construction characteristics

- 1. Number of axles: ... and wheels: ...
- 2. Steered axle (number, position): ...

Main dimensions

- 4. Wheelbase (e): ... mm
- 5.1. Maximum permissible length: ... mm
- 6.1. Maximum permissible width: ... mm
- 7.1. Maximum permissible height: ... mm
- 10. Distance between the centre of the coupling device and the...
- 12.1. Maximum permissible rear overhang: ... mm

Masses

- 14. Mass of the incomplete vehicle in running order: ... kg...
- 15. Minimum mass of the vehicle when completed: ... kg
- 16. Technically permissible maximum masses
- 17. Intended registration/in service maximum permissible masses in national/international traffic (...)
- 19.1. Technically permissible maximum static mass on the coupling point of...

Maximum speed

- 29. Maximum speed: ... km/h

Axles and suspension

- 31. Position of lift axle(s): ...
- 32. Position of loadable axle(s): ...
- 34. Axle(s) fitted with air suspension or equivalent: yes/no (1...
- 35. Tyre/wheel combination (h): ...

Coupling device

- 44. Approval number or approval mark of coupling device (if fitted):...
- 45. Types or classes of coupling devices which can be fitted:...
- Miscellaneous
- 52. Remarks (n): ...

Explanatory notes relating to Annex IX

ANNEX X

CONFORMITY OF PRODUCTION PROCEDURES

- 0. Objectives
 - 0.1. The conformity of production procedure aims to ensure that each...
 - 0.2. Procedures include inseparably the assessment of quality management systems, referred...

1. Initial assessment
 - 1.1. The approval authority of a Member State shall verify the...
 - 1.2. Guidance for conducting assessments may be found in Standard EN...
 - 1.3. The requirements referred to in point 1.1 shall be verified...
 - 1.4. For the purpose of vehicle type-approval, the initial assessments carried...
2. Product conformity arrangements
 - 2.1. Every vehicle, system, component or separate technical unit approved pursuant...
 - 2.2. The approval authority of a Member State shall verify the...
 - 2.3. The holder of the type-approval shall, in particular:
3. Continued verification arrangements

ANNEX XI

LIST OF REGULATORY ACTS SETTING THE REQUIREMENTS FOR THE PURPOSE OF EC TYPE-APPROVAL OF SPECIAL PURPOSE VEHICLES

Appendix 1

Appendix 2

Appendix 3

Appendix 4

Appendix 5

Appendix 6

Meaning of letters:

X No exemptions except those specified in the regulatory act....

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

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

0. Objectives and scope
 - 0.1. This Annex lays down the list of the regulatory acts...
 - 0.2. It also includes appropriate provisions concerning the designation of a...
 - 0.3. However it does not apply to manufacturers which apply for...
1. Appointment of a manufacturer as technical service
 - 1.1. A manufacturer appointed as technical service is a manufacturer who...
 - 1.2. The expression 'to carry out test' is not restricted to...
2. List of regulatory acts and restrictions

Appendix

Designation of a manufacturer as technical service

1. General
 - 1.1. The designation and notification of a manufacturer as technical service...
 - 1.2. The manufacturer shall be accredited under Standard EN ISO/IEC 17025:2005...
2. Subcontracting
 - 2.1. In accordance with the provisions of Article 41(6) first subparagraph,...

- 2.2. Turning to the services of a subcontractor does not remove...
- 2.3. Section 1 of Annex XV shall apply to the subcontractor....
3. Test report

ANNEX XVI

SPECIFIC CONDITIONS REQUIRED FROM VIRTUAL TESTING METHODS AND REGULATORY ACTS FOR WHICH VIRTUAL TESTING METHODS MAY BE USED BY A MANUFACTURER OR A TECHNICAL SERVICE

0. Objectives and scope
1. List of regulatory acts

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 process of the mathematical model
 - 2.3. Documentation
3. Tools and support

Appendix 2

Specific conditions concerning virtual testing methods

1. List of regulatory acts

Appendix 3

Validation process

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

Status: EU Directives are being published on this site to aid cross referencing from UK legislation. After IP completion day (31 December 2020 11pm) no further amendments will be applied to this version.

- (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.](#)