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To:	General Secretariat of the Council
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Subject:	ANNEX to the Commission Regulation supplementing Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information, amending Directive 2007/46/EC of the European Parliament and of the Council, Commission Regulation (EC) No 692/2008 and Commission Regulation (EU) No 1230/2012 and repealing Regulation (EC) No 692/2008

Delegations will find attached document D045884/03 ANNEX 18.

Encl.: D045884/03 ANNEX 18

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ANNEX 18

ANNEX

to the

Commission Regulation

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

ANNEX XVIII

SPECIAL PROVISIONS REGARDING ANNEXES I, II, III, VIII and IX TO DIRECTIVE 2007/46/EC

Amendments to Annex I of Directive 2007/46/EC

(1) Annex I of Directive 2007/46/EC is hereby amended as follows:

a) Point 2.6.1. shall be amended to read:

"2.6.1. Distribution of this mass among the axles and, in the case of a semi-trailer, a rigid drawbar trailer or a centre-axle trailer, the mass on the coupling:

(a) minimum and maximum for each variant: …

(b) mass of each version (a matrix must be provided): …"

b) Points 3. to 3.1.1. shall be amended to read:

"3. PROPULSION ENERGY CONVERTER (k)

3.1. Manufacturer of the propulsion energy converter(s): ……

3.1.1. Manufacturer's code (as marked on the propulsion energy converter or other means of identification): . . . "

c) Point 3.2.1.8. shall be amended to read:

"3.2.1.8. Rated engine power (n): . . . . . kW at . . . . . min^{-1} (manufacturer's declared value)"

d) A new point 3.2.2.1.1. shall be added as follows:

"3.2.2.1.1. RON, unleaded: . . . . . ."

e) Point 3.2.4.2.1. shall be amended to read:

"3.2.4.2.1. System description (common rail/unit injectors/distribution pump etc.): . . . . . ."

f) Point 3.2.4.2.3. shall be amended to read:

“3.2.4.2.3. Injection/Delivery pump”

g) Point 3.2.4.2.4. shall be amended to read:

“3.2.4.2.4. Engine speed limitation control”

h) Point 3.2.4.2.9.3. shall be amended to read:

“3.2.4.2.9.3. Description of the system”

i) A new point 3.2.4.2.9.3.1.1. shall be added as follows:

“3.2.4.2.9.3.1.1. Software version of the ECU: . . . . . .”

j) Points 3.2.4.2.9.3.6. to 3.2.4.2.9.3.8. shall be amended to read:

“3.2.4.2.9.3.6. Make and type or working principle of water temperature sensor: . . . . . .

3.2.4.2.9.3.7. Make and type or working principle of air temperature sensor: . . . . . .

3.2.4.2.9.3.8. Make and type or working principle of air pressure sensor: . . . . . .”

k) A new point 3.2.4.3.4.1.1. shall be added as follows:

“3.2.4.3.4.1.1. Software version of the ECU: . . . . . .”

l) Point 3.2.4.3.4.3. shall be amended to read:

“3.2.4.3.4.3. Make and type or working principle of air-flow sensor: . . . . . .”

m) Points 3.2.4.3.4.9. to 3.2.4.3.4.11. shall be amended to read:

“3.2.4.3.4.9. Make and type or working principle of water temperature sensor: . . . . . .

3.2.4.3.4.10. Make and type or working principle of air temperature sensor: . . . . . .

3.2.4.3.4.11. Make and type or working principle of air pressure sensor: . . . . . .
. . . . . .”

n) Point 3.2.4.3.5. shall be amended to read:

“3.2.4.3.5. Injectors”

o) New points 3.2.4.4.2. and 3.2.4.4.3. shall be added as follows:

“3.2.4.4.2. Make(s): . . . . . .

3.2.4.4.3. Type(s): . . . . . .”

p) Points 3.2.12.2. to 3.2.12.2.1. shall be amended to read:

“3.2.12.2. Pollution control devices (if not covered by another heading)

3.2.12.2.1. Catalytic converter”

q) Points 3.2.12.2.1.11. to 3.2.12.2.1.11.10 shall be deleted and replaced with the following new point:

“3.2.12.2.1.11. Normal operating temperature range: . . . . . °C”

r) Points 3.2.12.2.2. to 3.2.12.2.2.5. shall be deleted and replaced with the following:

“3.2.12.2.2. Sensors

3.2.12.2.2.1. Oxygen sensor: yes/no ([1])

3.2.12.2.2.1.1. Make: . . . . . .

3.2.12.2.2.1.2. Location: . . . . . .

3.2.12.2.2.1.3. Control range: . . . . . .

3.2.12.2.2.1.4. Type or working principle: . . . . . .

3.2.12.2.2.1.5. Identifying part number: . . . . . .

3.2.12.2.2.2. NOx sensor: yes/no ([1])

3.2.12.2.2.2.1. Make: …

3.2.12.2.2.2.2. Type: …

3.2.12.2.2.2.3. Location:….

3.2.12.2.2.3. Particulate sensor: yes/no ([1])

3.2.12.2.2.3.1. Make: …

3.2.12.2.2.3.2. Type: …

3.2.12.2.2.3.3. Location: …”

s) Points 3.2.12.2.4.1. to 3.2.12.2.4.2. shall be amended to read:

“3.2.12.2.4.1. Characteristics (make, type, flow, high pressure / low pressure / combined pressure, etc.): …

3.2.12.2.4.2. Water-cooled system (to be specified for each EGR system e.g. low pressure / high pressure / combined pressure: yes/no ([1])”

t) Points 3.2.12.2.5. to 3.2.12.2.5.6. shall be amended to read:

“3.2.12.2.5. Evaporative emissions control system (petrol and ethanol engines only): yes/no ([1])

3.2.12.2.5.1. Detailed description of the devices: . . . . . .

3.2.12.2.5.2. Drawing of the evaporative control system: . . . . . .

3.2.12.2.5.3. Drawing of the carbon canister: . . . . . .

3.2.12.2.5.4. Mass of dry charcoal: …… g

3.2.12.2.5.5. Schematic drawing of the fuel tank with indication of capacity and material (petrol and ethanol engines only): . . . . . .

3.2.12.2.5.6. Description and schematic of the heat shield between tank and exhaust system: . . . . . .”

u) Points 3.2.12.2.6.4. to 3.2.12.2.6.4.4. shall be deleted

v) Points 3.2.12.2.6.5. and 3.2.12.2.6.6. shall be renumbered to read:

“3.2.12.2.6.4. Make of particulate trap: . . . . . .

3.2.12.2.6.5. Identifying part number: . . . . . . “

w) Points 3.2.12.2.7. to 3.2.12.2.7.0.6. shall be amended to read:

“3.2.12.2.7.	On-board-diagnostic (OBD) system: yes/no ([1]): . . . . .
3.2.12.2.7.0.1.	(Euro VI only) Number of OBD engine families within the engine family
3.2.12.2.7.0.2.	(Euro VI only) List of the OBD engine families (when applicable)
3.2.12.2.7.0.3.	(Euro VI only) Number of the OBD engine family the parent engine / the engine member belongs to: …
3.2.12.2.7.0.4.	(Euro VI only) Manufacturer references of the OBD-Documentation required by Article 5(4)(c) and Article 9(4) of Regulation (EU) No 582/2011 and specified in Annex X to that Regulation for the purpose of approving the OBD system
3.2.12.2.7.0.5.	(Euro VI only) When appropriate, manufacturer reference of the Documentation for installing in a vehicle an OBD equipped engine system
3.2.12.2.7.0.6.	(Euro VI only) When appropriate, manufacturer reference of the documentation package related to the installation on the vehicle of the OBD system of an approved engine”

x) In point 3.2.12.2.7.6.4.1. the heading “Low-duty vehicles” shall be replaced with “Light-duty vehicles”

y) Points 3.2.12.2.8. shall be amended to read:

“3.2.12.2.8.	Other system: . . . . . “

z) New points 3.2.12.2.8.2.3. to 3.2.12.2.8.2.5. are added as follows:

“3.2.12.2.8.2.3.	Type of inducement system: no engine restart after countdown/no start after refuelling/fuel-lockout/performance restriction
3.2.12.2.8.2.4.	Description of the inducement system
3.2.12.2.8.2.5.	Equivalent to the average driving range of the vehicle with a complete tank of fuel: … km”

aa) A new point 3.2.12.2.8.4. shall be added as follows:

“3.2.12.2.8.4.	(Euro VI only) List of the OBD engine families (when applicable): …”

bb) New points 3.2.12.2.10. to 3.2.12.2.11.8. shall be added as follows:

“3.2.12.2.10.	Periodically regenerating system: (provide the information below for each separate unit)
3.2.12.2.10.1.	Method or system of regeneration, description and/or drawing: . . . . .
3.2.12.2.10.2.	The number of Type 1 operating cycles, or equivalent engine test bench cycles, between two cycles where regenerative phases occur under the conditions equivalent to Type 1 test (Distance ‘D’ in Figure A6.App1/1 in Appendix 1 to Sub-Annex 6 of Annex XXI to Regulation (EU) No xxx/2016 or figure A13/1 in Annex 13 to UN/ECE Regulation 83 (as applicable)): . .
3.2.12.2.10.2.1.	Applicable Type 1 cycle (indicate the applicable procedure: Annex XXI, Sub-Annex 4 or UN/ECE Regulation 83): …
3.2.12.2.10.3.	Description of method employed to determine the number of cycles between two cycles where regenerative phases occur: . . . . .
3.2.12.2.10.4.	Parameters to determine the level of loading required before regeneration occurs (i.e. temperature, pressure etc.): . . . . .
3.2.12.2.10.5.	Description of method used to load system in the test procedure described in paragraph 3.1., Annex 13 to UN/ECE Regulation 83: . . . . .
3.2.12.2.11.	Catalytic converter systems using consumable reagents (provide the information below for each separate unit) yes/no ([1])
3.2.12.2.11.1.	Type and concentration of reagent needed: …
3.2.12.2.11.2.	Normal operational temperature range of reagent: …
3.2.12.2.11.3.	International standard: …
3.2.12.2.11.4.	Frequency of reagent refill: continuous/maintenance (where appropriate):
3.2.12.2.11.5.	Reagent indicator (description and location): …
3.2.12.2.11.6.	Reagent tank
3.2.12.2.11.6.1.	Capacity: …
3.2.12.2.11.6.2.	Heating system: yes/no
3.2.12.2.11.6.2.1.	Description or drawing: …
3.2.12.2.11.7.	Reagent control unit: yes/no ([1])
3.2.12.2.11.7.1.	Make: …

3.2.12.2.11.7.2. Type: …

3.2.12.2.11.8. Reagent injector (make type and location): …”

cc) Point 3.2.15.1. shall be amended to read:

“3.2.15.1. Type-approval number according to Regulation (EC) No 661/2009 (OJ L 200, 31.7.2009, p1):… ”

dd) Point 3.2.16.1. shall be amended to read:

“3.2.16.1. Type-approval number according to Regulation (EC) No 661/2009 (OJ L 200, 31.7.2009, p1):… ”

ee) New points 3.2.20. to 3.2.20.2.4. shall be added as follows:

“3.2.20. Heat storage information

3.2.20.1. Active heat storage device: yes/no

3.2.20.1.1. Enthalpy: … (J)

3.2.20.2. Insulation materials

3.2.20.2.1. Insulation material: …

3.2.20.2.2. Insulation volume: …

3.2.20.2.3. Insulation weight: …

3.2.20.2.4. Insulation location: …”

ff) Point 3.3. shall be amended to read:

“3.3. Electric machine”

gg) Point 3.3.2. shall be amended to read:

“3.3.2. REESS”

hh) Point 3.4. shall be amended to read:

“3.4. Combinations of propulsion energy converters”

ii) Point 3.4.4. shall be amended to read:

"3.4.4. Description of the energy storage device: (REESS, capacitor, flywheel/generator)"

jj) Point 3.4.4.5. shall be amended to read:

"3.4.4.5. Energy: . . . . . (for REESS : voltage and capacity Ah in 2 h, for capacitor: J,. . . . .)"

kk) Point 3.4.5. shall be amended to read:

"3.4.5. Electric machine (describe each type of electric machine separately)"

ll) Point 3.5. shall be amended to read:

"3.5. Manufacturer's declared values for determination of CO_2 emissions/fuel consumption/electric consumption/electric range and details of eco-innovations (where applicable)(^{o})"

mm) New points 3.5.7. to 3.5.8.3. are added as follows:

"3.5.7. Manufacturer's declared values

3.5.7.1. Test vehicle parameters

3.5.7.1.1 Vehicle high

3.5.7.1.1.1. Cycle Energy Demand: … J

3.5.7.1.1.2. Road load coefficients

3.5.7.1.1.2.1. f0: …… N

3.5.7.1.1.2.2. f1: ……N/(km/h)

3.5.7.1.1.2.3. f2: …… N/(km/h)²

3.5.7.1.2. Vehicle Low (if applicable)

3.5.7.1.2.1. Cycle Energy Demand: … J

3.5.7.1.2.2. Road load coefficients

3.5.7.1.2.2.1. f0: …… N

3.5.7.1.2.2.2. f1: ……N/(km/h)

3.5.7.1.2.2.3. f2: …… N/(km/h)²

3.5.7.1.3. Vehicle M (if applicable)

3.5.7.1.3.1. Cycle Energy Demand: … J

3.5.7.1.3.2. Road load coefficients

3.5.7.1.3.2.1. f0: …… N

3.5.7.1.3.2.2. f1: ……N/(km/h)

3.5.7.1.3.2.3. f2: …… N/(km/h)²

3.5.7.2. Combined CO_2 mass emissions

3.5.7.2.1. CO_2 mass emission for ICE

3.5.7.2.1.1. Vehicle High: ……. g/km

3.5.7.2.1.2. Vehicle low (if applicable): ……. g/km

3.5.7.2.2. Charge Sustaining CO_2 mass emission for OVC-HEVs and NOVC-HEVs

3.5.7.2.2.1. Vehicle high: ……. g/km

3.5.7.2.2.2. Vehicle low (if applicable): ……. g/km

3.5.7.2.2.3. Vehicle M (if applicable): ……. g/km

3.5.7.2.3. Charge Depleting CO_2 mass emission for OVC-HEVs

3.5.7.2.3.1. Vehicle high: ……. g/km

3.5.7.2.3.2. Vehicle low (if applicable): ……. g/km

3.5.7.2.3.3. Vehicle M (if applicable): ……. g/km

3.5.7.3. Electric range for electrified vehicles

3.5.7.3.1. Pure Electric Range (PER) for PEVs

3.5.7.3.1.1. Vehicle high: ……. km

3.5.7.3.1.2. Vehicle low (if applicable): ……. km

3.5.7.3.2. All Electric Range AER for OVC-HEVs

3.5.7.3.2.1. Vehicle high: ……. km

3.5.7.3.2.2. Vehicle low (if applicable): ……. km

3.5.7.3.2.3. Vehicle M (if applicable): ……. km

3.5.7.4. Charge Sustaining fuel consumption (FCCS) for FCHVs

3.5.7.4.1. Vehicle high: ……. kg/100 km

3.5.7.4.2. Vehicle low (if applicable): ……. kg/100 km

3.5.7.4.3. Vehicle M (if applicable): ……. kg/100 km

3.5.7.5. Electric energy consumption for electrified vehicles

3.5.7.5.1. Combined electric energy consumption (ECWLTC) for Pure electric vehicles

3.5.7.5.1.1. Vehicle high: ……. Wh/km

3.5.7.5.1.2. Vehicle low (if applicable): ……. Wh/km

3.5.7.5.2. Utility factor weighted charge-depleting electric consumption ECAC,CD (combined)

3.5.7.5.2.1. Vehicle high: ……. Wh/km

3.5.7.5.2.2. Vehicle low (if applicable): ……. Wh/km

3.5.7.5.2.3. Vehicle M (if applicable): ……. Wh/km

3.5.8. Vehicle fitted with an eco-innovation within the meaning of Article 12 of Regulation (EC) No 443/2009 for M1 vehicles or Article 12 of Regulation (EU) No 510/2011 for N1 vehicles: yes/no ([1])

3.5.8.1. Type/Variant/Version of the baseline vehicle as referred to in Article 5 of Regulation (EU) No 725/2011 for M1 vehicles or Article 5 of Regulation (EU) No 427/2014 for N1 vehicles (if applicable): .....

3.5.8.2. Existence of interactions between different eco-innovations: yes/no ([1])

3.5.8.3. Emissions data related to the use of eco-innovations (repeat the table for each reference fuel tested) (w1)

Decision approving the eco-innovation ([w2])	Code of the eco-innovation ([w3])	1. CO_2 emissions of the baseline vehicle (g/km)	2. CO_2 emissions of the eco-innovation vehicle (g/km)	3. CO_2 emissions of the baseline vehicle under type 1 test-cycle ([w4])	4. CO_2 emissions of the eco-innovation vehicle under type 1 test-cycle	5. Usage factor (UF), i.e. temporal share of technology usage in normal operation conditions	CO_2 emissions savings ((1 – 2) – (3 – 4))*5
xxxx/201x							
Total CO_2 emissions saving (g/km)([w5])							

"

nn) Point 4.4. shall be amended to read:

"4.4. Clutch(es):…"

oo) New points 4.5.1.1. to 4.5.1.5. shall be added as follows:

"4.5.1.1. Predominant mode: yes/no ([1])

4.5.1.2. Best mode (if no predominant mode): …

4.5.1.3. Worst mode (if no predominant mode): …

4.5.1.4. Torque rating: . . . . . .

4.5.1.5. Number of clutches: . . . . . ."

pp) Point 4.6. shall be amended to read:

"4.6. Gear ratios

Gear	Internal gearbox ratios (ratios of engine to gearbox output shaft revolutions)	Final drive ratio(s) (ratio of gearbox output shaft to driven wheel revolutions)	Total gear ratios
Maximum for CVT			
1			
2			
3			
…			
Minimum for CVT			
Reverse			

“

qq) Point 6.6. to 6.6.5. shall be replaced as follows:

“6.6. Tyres and wheels

6.6.1. Tyre/wheel combination(s)

6.6.1.1. Axles

6.6.1.1.1. Axle 1: . . . .

6.6.1.1.1.1. Tyre size designation:…….

6.6.1.1.1.2. Load-capacity index:……..

6.6.1.1.1.3. Speed category symbol ([r])

6.6.1.1.1.4. Wheel rim size(s):……

6.6.1.1.1.5. Wheel off-set(s):……

6.6.1.1.2. Axle 2: . . . . . .

6.6.1.1.2.1. Tyre size designation:…….

6.6.1.1.2.2. Load-capacity index:…….

6.6.1.1.2.3. Speed category symbol:…….

6.6.1.1.2.4. Wheel rim size(s):…….

6.6.1.1.2.5. Wheel off-set(s) :……..

etc.

6.6.1.2. Spare wheel, if any: . . . . . .

6.6.2. Upper and lower limits of rolling radii

6.6.2.1. Axle 1: . . . . . mm

6.6.2.2. Axle 2: . . . . . mm

6.6.2.3. Axle 3: . . . . .mm

6.6.2.4. Axle 4: . . . .…....mm

etc.

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 suitable for the type of vehicle, as recommended by the manufacturer: . . . . . .

6.6.5. Brief description of temporary use spare unit (if any): . . . “

rr) Point 9.1. shall be amended to read:

“9.1. Type of bodywork using the codes defined in Part C of Annex II of Directive 2007/46/EC: . . . . .”

ss) Point 9.9.2.1. shall be amended to read:

“9.9.2.1. Type and description of the device: . . “

END

Amendments to Annex II of Directive 2007/46/EC

(2) Annex II is hereby amended as follows:

"

2.1. At the end of the two points 1.3.1 and 3.3.1 of part B of Annex II defining the criteria for "vehicle versions" for M1 and N1 vehicles each, the following text should be added:

"

As an alternative to the criteria (h), (i) and (j), the vehicles grouped into a version shall have all tests performed for the calculation of their CO_2 emissions, electric energy consumption and fuel consumptions according to the provisions of sub-Annex 6 to Annex XXI of Regulation xxx/2016 in common.

"

2.2. The following text shall be added at the end of point 3.3.1 of part B of Annex II

"

(k) the existence of a unique set of innovative technologies, as specified in Article 12 of Regulation (EU) No 510/2011[1].

"

[1] OJ L 145 31.5.2011, p. 1.

Amendments to Annex III of Directive 2007/46/EC

(3) Annex III of Directive 2007/46/EC is hereby amended as follows:

a) Points 3. to 3.1.1. shall be amended to read:

"3. PROPULSION ENERGY CONVERTER (k)

3.1. Manufacturer of the propulsion energy converter(s): ……

3.1.1. Manufacturer's code (as marked on the propulsion energy converter or other means of identification): . . . "

b) Point 3.2.1.8. shall be amended to read:

"3.2.1.8. Rated engine power (n): . . . . . kW at . . . . . min^{-1} (manufacturer's declared value)"

c) Points 3.2.12.2. to 3.2.12.2.1. shall be amended to read:

"3.2.12.2. Pollution control devices (if not covered by another heading)

3.2.12.2.1. Catalytic converter"

d) Point 3.2.12.2.1.11. shall be deleted

e) Points 3.2.12.2.1.11.6. and 3.2.12.2.1.11.7. shall be deleted

f) Point 3.2.12.2.2. shall be deleted and replaced with the following new point:

"3.2.12.2.2.1. Oxygen sensor: yes/no ([1])"

g) Point 3.2.12.2.5. shall be amended to read:

"3.2.12.2.5. Evaporative emissions control system (petrol and ethanol engines only): yes/no ([1])"

h) Point 3.2.12.2.8. shall be amended to read:

"3.2.12.2.8. Other system"

i) New points 3.2.12.2.10. to 3.2.12.2.10.1. shall be added as follows:

"3.2.12.2.10. Periodically regenerating system: (provide the information below for each separate unit)

3.2.12.2.10.1. Method or system of regeneration, description and/or drawing: . . . . . ."

j) A new point 3.2.12.2.11.1. shall be added as follows:

"3.2.12.2.11.1. Type and concentration of reagent needed: …"

k) Point 3.3. shall be amended to read:

"3.3. Electric machine"

l) Point 3.3.2. shall be amended to read:

"3.3.2. REESS"

m) Point 3.4. shall be amended to read:

"3.4. Combinations of propulsion energy converters"

n) Points 3.5.4 to 3.5.5.6. shall be deleted.

o) Point 4.6. shall be amended to read:

"4.6. Gear ratios

Gear	Internal gearbox ratios (ratios of engine to gearbox output shaft revolutions)	Final drive ratio(s) (ratio of gearbox output shaft to driven wheel revolutions)	Total gear ratios
Maximum for CVT			
1			
2			
3			
…			
Minimum for CVT			
Reverse			

“

p) Point 6.6.1.shall be amended to read:

“6.6.1. Tyre/wheel combination(s)”

q) Point 9.1. shall be amended to read:

“9.1. Type of bodywork using the codes defined in Part C of Annex II of Directive 2007/46/EC: . . . . .”

END

Amendments to Annex VIII of Directive 2007/46/EC

(4) Annex VIII of Directive 2007/46/EC is hereby amended as follows:

ANNEX VIII

TEST RESULTS

(To be completed by the type-approval authority and attached to the vehicle EC type-approval certificate)

In each case, the information must make clear to which variant and version it is applicable. One version may not have more than one result. However, a combination of several results per version indicating the worst case is permissible. In the latter case, a note shall state that for items marked (*) only worst case results are given.

1. Results of the sound level tests

Number of the base regulatory act and latest amending regulatory act applicable to the approval. In case of a regulatory act with two or more implementation stages, indicate also the implementation stage:……..

Variant/Version:	…	…	…
Moving (dB(A)/E):	…	…	…
Stationary (dB(A)/E):	…	…	…
at (min^{-1}):	…	…	…

2. Results of the exhaust emission tests

2.1. Emissions from motor vehicles tested under the test procedure for light-duty vehicles

Indicate the latest amending regulatory act applicable to the approval. In case the regulatory act has two or more implementation stages, indicate also the implementation stage:……

Fuel(s)[2] … (diesel, petrol, LPG, NG, Bi-fuel: petrol/NG, LPG, NG/biomethane, Flex-fuel: petrol/ethanol…)

[2] When restrictions for the fuel are applicable, indicate these restrictions (e.g. for natural gas the L range or the H range).

2.1.1. Type 1 test[3,4] (vehicle emissions in the test cycle after a cold start)

NEDC average values, WLTP highest values

Variant/Version:	…	…	…
CO (mg/km)	…	…	…
THC (mg/km)	…	…	…
NMHC (mg/km)	…	…	…
NO_x (mg/km)	…	…	…
THC + NO_x (mg/km)	…	…	…
Mass of particulate matter (PM) (mg/km)	…	…	…
Number of particles (PN) (#/km) ([1])	…	…	…

Ambient Temperature Correction Test (ATCT)

ATCT Family	Interpolation family	Road Load Matrix family
…	…	…
…	…	…

Family correction factors

ATCT Family	FCF
…	…
…	…

[3] For bi fuel vehicles, the table shall be repeated for both fuels.

[4] For flex fuel vehicles, when the test is to be performed on both fuels, according to Figure I.2.4 of Annex I to Regulation (EC) No xxx/2016, and for vehicles running on LPG or NG/Biomethane, either bi-fuel or mono-fuel, the table shall be repeated for the different reference gases used in the test, and an additional table shall display the worst results obtained. When applicable, in accordance with paragraph 3.1.4. of Annex 12 to UN/ECE Regulation No 83, it shall be shown if the results are measured or calculated.

2.1.2. Type 2 test[5,6] (emissions data required at type-approval for roadworthiness purposes)

Type 2, low idle test:

Variant/Version:	…	…	…
CO (% vol.)	…	…	…
Engine speed (min^{-1})	…	…	…
Engine oil temperature (°C)	…	…	…

Type 2, high idle test:

Variant/Version:	…	…	…
CO (% vol.)	…	…	…
Lambda Value	…	…	…
Engine speed (min^{-1})	…	…	…
Engine oil temperature (°C)	…	…	…

2.1.3. Type 3 test (emissions of crankcase gases): …

2.1.4. Type 4 test (evaporative emissions): … g/test

2.1.5. Type 5 test (durability of anti-pollution control devices):

– Ageing distance covered (km)(e.g. 160000 km): …

– Deterioration factor DF: calculated/fixed[7]

– Values:

Variant/Version:	…	…	…

[5] For bi fuel vehicles, the table shall be repeated for both fuels.

[6] For flex fuel vehicles, when the test is to be performed on both fuels, according to Figure I.2.4 of Annex I to Regulation (EC) No xxx/2016, and for vehicles running on LPG or NG/Biomethane, either bi-fuel or mono-fuel, the table shall be repeated for the different reference gases used in the test, and an additional table shall display the worst results obtained. When applicable, in accordance with paragraph 3.1.4. of Annex 12 to UN/ECE Regulation No 83, it shall be shown if the results are measured or calculated.

[7] Delete where not applicable.

CO	…	…	…
THC	…	…	…
NMHC	…	…	…
NO_x	…	…	…
THC + NO_x	…	…	…
Mass of particulate matter (PM)	…	…	…
Number of particles (PN) ([1])	…	…	…

2.1.6. Type 6 test (average emissions at low ambient temperatures):

Variant/Version:	…	…	…
CO (g/km)	…	…	…
THC (g/km)	…	…	…

2.1.7. OBD: yes/no[8]

2.2. Emissions from engines tested under the test procedure for heavy-duty vehicles.

Indicate the latest amending regulatory act applicable to the approval. In case the regulatory act has two or more implementation stages, indicate also the implementation stage: …

Fuel(s)[9] … (diesel, petrol, LPG, NG, ethanol …)

2.2.1. Results of the ESC test[10,11,12]

Variant/Version:	…	…	…
CO (mg/kWh)	…	…	…
THC (mg/kWh)	…	…	…
NO_x (mg/kWh)	…	…	…

[8] Delete where not applicable.

[9] When restrictions for the fuel are applicable, indicate these restrictions (e.g. for natural gas the L range or the H range).

[10] If applicable.

[11] For Euro VI, ESC shall be understood as WHSC and ETC as WHTC.

[12] For Euro VI, if CNG and LPG fuelled engines are tested on different reference fuels, the table shall be reproduced for each reference fuel tested.

NH_3 (ppm) ([1])	…	…	…
PM mass (mg/kWh)	…	…	…
PM number (#/kWh) ([1])	…	…	…

2.2.2. Result of the ELR test[13]

Variant/Version:	…	…	…
Smoke value:…m^{-1}	…	…	…

2.2.3. Result of the ETC test[14,15]

Variant/Version:	…	…	…
CO (mg/kWh)	…	…	…
THC (mg/kWh)	…	…	…
NMHC (mg/kWh) ([1])	…	…	…
CH_4 (mg/kWh) ([1])	…	…	…
NO_x (mg/kWh)	…	…	…
NH_3 (ppm) ([1])	…	…	…
PM mass (mg/kWh)	…	…	…
PM number (#/kWh) ([1])	…	…	…

2.2.4. Idle test[16]

Variant/Version:	…	…	…
CO (% vol.)	…	…	…
Lambda Value ([1])	…	…	…

[13] If applicable.

[14] For Euro VI, ESC shall be understood as WHSC and ETC as WHTC.

[15] For Euro VI, if CNG and LPG fuelled engines are tested on different reference fuels, the table shall be reproduced for each reference fuel tested.

[16] If applicable.

Engine speed (min^{-1})	…	…	…
Engine oil temperature (K)	…	…	…

2.3. Diesel smoke

Indicate the latest amending regulatory act applicable to the approval. In case the regulatory act has two or more implementation stages, indicate also the implementation stage:…….

2.3.1. Results of the test under free acceleration

Variant/Version:	…	…	…
Corrected value of the absorption coefficient (m^{-1})	…	…	…
Normal engine idling speed	…	…	…
Maximum engine speed	…	…	…
Oil temperature (min./max.)	…	…	…

3. Results of the CO_2 emission, fuel/electric energy consumption, and electric range tests

Number of the base regulatory act and the latest amending regulatory act applicable to the approval:……

3.1. Internal combustion engines, including not externally chargeable hybrid electric vehicles (NOVC)[17][18]

Variant/Version:	…	…	…
CO_2 mass emission (urban conditions) (g/km)	…	…	…
CO_2 mass emission (extra-urban conditions) (g/km)	…	…	…
CO_2 mass emission (combined) (g/km)	…	…	…
Fuel consumption (urban conditions) (l/100 km)[19]	…	…	…
Fuel consumption (extra-urban conditions) (l/100 km)[20]	…	…	…

[17] If applicable.

[18] Repeat the table for each reference fuel tested.

[19] The unit ‘l/100 km’ is replaced by ‘m^3/100 km’ for vehicles fuelled with NG and H2NG, and by ‘kg/100 km’ for vehicles fuelled with hydrogen.

Fuel consumption (combined) (l/100 km)[21]	…	…	…

Interpolation family identifier[22]	Variant/versions
…	…
…	…
…	…

Road Load Matrix family identifier[23]	Variant/versions
…	…
…	…
…	…

Results:	Interpolation family identifier			Road Load Matrix family identifier
	VH	VM (if applicable)	VL (if applicable)	V representative
CO_2 mass emission LOW phase (g/km)	…	…	…	
CO_2 mass emission MID phase (g/km)	…	…	…	
CO_2 mass emission HIGH phase (g/km)	…	…	…	
CO_2 mass emission EXTRA-HIGH phase (g/km)	…	…	…	
CO_2 mass emission (combined) (g/km)	…	…	…	
Fuel consumption LOW phase (l/100 km m^3/100km kg/100km)	…	…	…	
Fuel consumption MID phase (l/100 km m^3/100km kg/100km)	…	…	…	
Fuel consumption HIGH phase (l/100 km m^3/100km kg/100km)	…	…	…	

[20] The unit 'l/100 km' is replaced by 'm^3/100 km' for vehicles fuelled with NG and H2NG, and by 'kg/100 km' for vehicles fuelled with hydrogen.

[21] The unit 'l/100 km' is replaced by 'm^3/100 km' for vehicles fuelled with NG and H2NG, and by 'kg/100 km' for vehicles fuelled with hydrogen.

[22] The format for the Interpolation Family Identifier is provided in paragraph 5.0 of Annex XXI to Regulation xxx/2016

[23] The format for the Road Load Matrix Family Identifier is provided in paragraph 5.0 of Annex XXI to Regulation xxx/2016

Fuel consumption EXTRA-HIGH phase (l/100 km m^3/100km kg/100km)	…	…	…	
Fuel consumption (combined) (l/100 km m^3/100km kg/100km)	…	…	…	
f0	…	…	…	
f1	…	…	…	
f2	…	…	…	
RR	…	…	…	
Delta Cd*A (for VL if applicable compared to VH)	…	…	…	
Test Mass	…	…	…	

Repeat for each interpolation or road load matrix family.

3.2. Externally chargeable hybrid electric vehicles (OVC)[24]

Variant/Version:	…	…	…
CO_2 mass emission (Condition A, combined) (g/km)	…	…	…
CO_2 mass emission (Condition B, combined) (g/km)	…	…	…
CO_2 mass emission (weighted, combined) (g/km)	…	…	…
Fuel consumption (Condition A, combined) (l/100 km) ([g])	…	…	…
Fuel consumption (Condition B, combined) (l/100 km) ([g])	…	…	…
Fuel consumption (weighted, combined) (l/100 km) ([g])	…	…	…
Electric energy consumption (Condition A, combined) (Wh/km)	…	…	…
Electric energy consumption (Condition B, combined) (Wh/km)	…	…	…
Electric energy consumption (weighted and combined) (Wh/km)	…	…	…
Pure electric range (km)	…	…	…

Interpolation family number	Variant/versions
…	…

[24] If applicable.

…	…
…	…

Road Load Matrix family identifier	Variant/versions
…	…
…	…
…	…

Results:	Interpolation family identifier			Road Load Matrix family identifier
	VH	VM (if applicable)	VL (if applicable)	V representative
CS CO_2 mass emission LOW phase (g/km)	…		…	
CS CO_2 mass emission MID phase (g/km)	…		…	
CS CO_2 mass emission HIGH phase (g/km)	…		…	
CS CO_2 mass emission EXTRA-HIGH phase (g/km)	…		…	
CS CO_2 mass emission (combined) (g/km)	…		…	
CD CO_2 mass emission (combined) (g/km)				
CO_2 mass emission (weighted, combined) (g/km)				
CS Fuel consumption LOW phase (l/100 km)	…		…	
CS Fuel consumption MID phase (l/100 km)	…		…	
CS Fuel consumption HIGH phase (l/100 km)	…		…	
CS Fuel consumption EXTRA-HIGH phase (l/100 km)	…		…	
CS Fuel consumption (combined) (l/100 km)	…		…	
CD Fuel consumption (combined) (l/100 km)	…		…	
Fuel consumption (weighted, combined) (l/100 km)	…		…	
$EC_{AC,weighted}$	…		…	
EAER (combined)	…		…	
$EAER_{city}$	…		…	
f0	…		…	
f1	…		…	
f2	…		…	
RR	…		…	
Delta Cd*A (for VL or VM compared to VH)	…		…	
Test Mass	…		…	
Frontal area of the representative vehicle (m^2)				

Repeat for each interpolation family.

3.3. Pure electric vehicles[25]

Variant/Version:	…	…	…
Electric energy consumption (Wh/km)	…	…	…
Range (km)	…	…	…

Interpolation family number	Variant/versions
…	…
…	…
…	…

Road Load Matrix family identifier	Variant/versions
…	…
…	…
…	…

Results:

[25] If applicable.

	Interpolation family identifier		Matrix family identifier
	VH	VL	V representative
Electric Consumption (Combined) (Wh/km)	…	…	
Pure Electric Range (Combined) (km)	…	…	
Pure Electric Range (City) (km)	…	…	
f0	…	…	
f1	…	…	
f2	…	…	
RR	…	…	
Delta Cd*A (for VL compared to VH)	…	…	
Test Mass	…	…	
Frontal area of the representative vehicle (m^2)			

3.4. Hydrogen fuel cell vehicles[26]

Variant/Version:	…	…	…
Fuel consumption (kg/100 km)	…	…	…

	Variant/Version:	Variant/Version:
Fuel Consumption (Combined) (kg/100 km)	…	…
f0	…	…
f1	…	…
f2	…	…
RR	…	…
Test Mass	…	

3.5. Output report(s) from the correlation tool in accordance with Implementing Regulation yyy/2016

Repeat for each interpolation or road load matrix family:

Interpolation family identifier or road load matrix family [Footnote: "Type Approval Number + Interpolation Family Sequence number"]: …

VH report: …

[26] If applicable.

VL report (if applicable): …

V representative: …

4. Results of the tests for vehicles fitted with eco-innovation(s)[27][28][29]

According to Regulation 83 (if applicable)

	Variant/Version …							
Decision approving the eco-innovation[30]	Code of the eco-innovation[31]	Type 1/I cycle (NEDC/ WLTP)	1. CO_2 emissions of the baseline vehicle (g/km)	2. CO_2 emissions of the eco-innovation vehicle (g/km)	3. CO_2 emissions of the baseline vehicle under Type 1 test-cycle[32]	4. CO_2 emissions of the eco-innovation vehicle under Type 1 test-cycle (= 3.5.1.3 of Annex I)	5. Usage factor (UF) i.e. temporal share of technology usage in normal operation conditions	CO_2 emissions savings ((1 – 2) – (3 – 4)) * 5
xxx/201x	…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…	…
	Total CO_2 emissions savings on NEDC(g/km)[33]							…

According to Annex XXI of Regulation xxx/2016 (if applicable)

	Variant/Version …							
Decision	Code of	Type 1/I	1. CO_2	2. CO_2	3. CO_2	4. CO_2	5. Usage	CO_2

27 ([h1]) Repeat the table for each variant/version.
28 ([h2]) Repeat the table for each reference fuel tested
29 ([h3]) Expand the table if necessary, using one extra row per eco-innovation.
30 ([h4]) Number of the Commission Decision approving the eco-innovation.
31 ([h5]) Assigned in the Commission Decision approving the eco-innovation.
32 ([h6]) If a modelling methodology is applied instead of the type 1 test cycle, this value shall be the one provided by the modelling methodology.
33 ([h7]) Sum of the CO_2 emissions savings of each individual eco-innovation on Type I according UN/ECE Regulation No 83.

approving the eco-innovation[34]	the eco-innovation[35]	cycle (NEDC/ WLTP)	emissions of the baseline vehicle (g/km)	emissions of the eco-innovation vehicle (g/km)	emissions of the baseline vehicle under Type 1 test-cycle[36]	emissions of the eco-innovation vehicle under Type 1 test-cycle	factor (UF) i.e. temporal share of technology usage in normal operation conditions	emissions savings ((1 – 2) – (3 – 4)) * 5
xxx/201x	…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…	…
…	…	…	…	…	…	…	…	…
	Total CO_2 emissions savings on WLTP(g/km)[37]							

4.1. General code of the eco-innovation(s)[38]:……

Explanatory notes

([h]) Eco-innovations.

34 ([h4]) Number of the Commission Decision approving the eco-innovation.

35 ([h5]) Assigned in the Commission Decision approving the eco-innovation.

36 ([h6]) If a modelling methodology is applied instead of the type 1 test cycle, this value shall be the one provided by the modelling methodology.

37 ([h7]) Sum of the CO_2 emissions savings of each individual eco-innovation on Type 1 according to Annex XXI, Sub-Annex 4 of Regulation xxx/2016.

38 ([h8]) The general code of the eco-innovation(s) shall consist of the following elements each separated by a blank space:

– Code of the approval authority as set out in Annex VII;

– Individual code of each eco-innovation fitted in the vehicle, indicated in chronological order of the Commission approval decisions.

(E.g. the general code of three eco-innovations approved chronologically as 10, 15 and 16 and fitted to a vehicle certified by the German type-approval authority should be: ‘e1 10 15 16’.)

Amendments to Annex IX of Directive 2007/46/EC

(5) Annex IX of Directive 2007/46/EC is hereby replaced by the following text:

"

ANNEX IX

EC CERTIFICATE OF CONFORMITY

0. OBJECTIVES

The certificate of conformity is a statement delivered by the vehicle manufacturer to the buyer in order to assure him that the vehicle he has acquired complies with the legislation in force in the European Union at the time it was produced.

The certificate of conformity also serves the purpose to enable the competent authorities of the Member States to register vehicles without having to require the applicant to supply additional technical documentation.

For these purposes, the certificate of conformity has to include:

(a) the Vehicle Identification Number;

(b) the exact technical characteristics of the vehicle (i.e. it is not permitted to mention any range of value in the various entries).

1. GENERAL DESCRIPTION

1.1. The certificate of conformity shall consist of two parts.

(a) SIDE 1, which consists of a statement of compliance by the manufacturer. The same template is common to all vehicle categories.

(b) SIDE 2, which is a technical description of the main characteristics of the vehicle. The template of side 2 is adapted to each specific vehicle category.

1.2. The certificate of conformity shall be established in a maximum format A4 (210 × 297 mm) or a folder of maximum format A4.

1.3. Without prejudice to the provisions in Section O(b), the values and units indicated in the second part shall be those given in the type-approval documentation of the relevant regulatory acts. In case of conformity of production checks the values shall be verified according to the methods laid down in the relevant regulatory acts. The tolerances allowed in those regulatory acts shall be taken into account.

2. SPECIAL PROVISIONS

2.1. Model A of the certificate of conformity (complete vehicle) shall cover vehicles which can be used on the road without requiring any further stage for their approval.

2.2. Model B of the certificate of conformity (completed vehicles) shall cover vehicles which have undergone a further stage for their approval.

This is the normal result of the multi-stage approval process (e.g. a bus built by a second stage manufacturer on a chassis built by a vehicle manufacturer).

The additional features added during the multi-stage process shall be described briefly.

2.3. Model C of the certificate of conformity (incomplete vehicles) shall cover vehicles which need a further stage for their approval (e.g. truck chassis).

Except for tractors for semi-trailers, certificates of conformity covering chassis-cab vehicles belonging to category N shall be of Model C.

PART I

COMPLETE AND COMPLETED VEHICLES

MODEL A1 — SIDE 1

COMPLETE VEHICLES

EC CERTIFICATE OF CONFORMITY

Side 1

The undersigned […. (*Full name and position*)] hereby certifies that the vehicle:

0.1. Make (Trade name of manufacturer): …

0.2. Type: …

- Variant ([a]): …
- Version ([a]): …

0.2.1. Commercial name: …

0.4. Vehicle category: …

0.5. Company name and address of manufacturer: …

0.6. Location and method of attachment of the statutory plates: …

Location of the vehicle identification number: …

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

0.10. Vehicle identification number: …

conforms in all respects to the type described in approval (… *type-approval number including extension number*) issued on (… *date of issue*) and

can be permanently registered in Member States having right/left ([b]) hand traffic and using metric/imperial ([c]) units for the speedometer and metric/imperial ([c]) units for the odometer (if applicable) ([d]).

(Place) (Date): …	(Signature): …

MODEL A2 — SIDE 1

COMPLETE VEHICLES TYPE-APPROVED IN SMALL SERIES

[Year]	[Sequential number]

EC CERTIFICATE OF CONFORMITY

Side 1

The undersigned [… (*Full name and position*)] hereby certifies that the vehicle:

0.1. Make (Trade name of manufacturer): …

0.2. Type: …

- Variant ([a]): …
- Version ([a]): …

0.2.1. Commercial name: …

0.4. Vehicle category: …

0.5. Company name and address of manufacturer: …

0.6. Location and method of attachment of the statutory plates: …

Location of the vehicle identification number: …

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

0.10. Vehicle identification number: …

conforms in all respects to the type described in approval (… *type-approval number including extension number*) issued on (… *date of issue*) and

can be permanently registered in Member States having right/left ([b]) hand traffic and using metric/imperial ([c]) units for the speedometer and metric/imperial ([c]) units for the odometer (if applicable) ([d]).

(Place) (Date): …	(Signature): …

MODEL B — SIDE 1

COMPLETED VEHICLES

EC CERTIFICATE OF CONFORMITY

Side 1

The undersigned [… (*Full name and position*)] hereby certifies that the vehicle:

0.1. Make (Trade name of the manufacturer): …

0.2. Type: …

- Variant ([a]): …
- Version ([a]): …

0.2.1. Commercial name: …

0.2.2. For multi-stage approved vehicles, type-approval information of the base/previous stages vehicle (list the information for each stage):

- Type: …
- Variant ([a]): …
- Version ([a]): …

Type-approval number, extension number …

0.4. Vehicle category: …

0.5. Company name and address of manufacturer: …

0.5.1. For multi-stage approved vehicles, company name and address of the manufacturer of the base/previous stage(s) vehicle . . .

0.6. Location and method of attachment of the statutory plates: …

Location of the vehicle identification number: …

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

0.10. Vehicle identification number: …

(a) has been completed and altered ([1]) as follows: … and

(b) conforms in all respects to the type described in approval (… *type-approval number including extension number*) issued on (… *date of issue*) and

(c) can be permanently registered in Member States having right/left ([b]) hand traffic and using metric/imperial ([c]) units for the speedometer and metric/imperial ([c]) units for the odometer (if applicable) ([d]).

(Place) (Date): …	(Signature): …

Attachments: Certificate of conformity delivered at each previous stage.

SIDE 2

VEHICLE CATEGORY M_1

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … mm

5. Length: … mm

6. Width: … mm

7. Height: … mm

Masses

13. Mass in running order: … kg

13.2. Actual mass of the vehicle: … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static vertical mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/ NOVC-FCHV ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

27.3. Maximum net power: … kW (electric motor) ([1])([s])

27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track:

1. … mm

2. … mm

3. … mm

35. Tyre/wheel combination/Rolling Resistance Class (if applicable) ([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]): …

42.1. Seat(s) designated for use only when the vehicle is stationary: …

42.3. Number of wheelchair user accessible position: …

Environmental performances

46. Sound level

- Stationary: … dB(A) at engine speed: … min^{-1}
- Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/(km/h)²

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: Type I or ESC (1)

CO: … . HC: … . . NO x : … . HC + NO x : … . Particulates: …. .

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: Type 1 (NEDC average values, WLTP highest values) or WHSC (EURO VI) ([1])

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): …

Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: … (m^{-1})

49. CO_2 emissions/fuel consumption/electric energy consumption ([m]) ([r]):

1. all power trains, except pure electric vehicles (if applicable)

NEDC values	CO_2 emissions	Fuel consumption in case of emission testing according to Regulation (EC) No 692/2008
Urban conditions[(1)]:	… g/km	… l/100 km or m^3/100 km or kg/100km ([1])
Extra-urban conditions[(1)]:	… g/km	l/100 km or m^3/100 km or kg/100km ([1])
Combined[(1)]:	… g/km	… l/100 km or m^3/100 km or kg/100km ([1])
Weighted[(1)], combined	… g/km	… l/100 km or m^3/100 km or kg/100km
Deviation factor (if applicable)		
Verification factor (if applicable)	‘1’ or ‘0’	

2. pure electric vehicles and OVC hybrid electric vehicles (if applicable)

Electric energy consumption (weighted, combined [(1)])		… Wh/km
Electric range		… km

3. Vehicle fitted with eco-innovation(s): yes/no ([1])

3.1. General code of the eco-innovation(s) ([p1]): …

3.2. Total CO_2 emissions savings due to the eco-innovation(s) ([p2]) (repeat for each reference fuel tested):

3.2.1. NEDC savings: …g/km (if applicable)

3.2.2. WLTP savings: …g/km (if applicable)

4. all power trains, except pure electric vehicle, under xxx/2016 (if applicable)

WLTP values	CO_2 emissions	Fuel consumption
Low (1):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Medium(1):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
High(1):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Extra High(1):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Combined:	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Weighted, combined(1)	… g/km	… l/100 km or m^3/100 km or kg/100km([1])

5. Pure electric vehicles and OVC hybrid electric vehicles, under xxx/2016 (if applicable)

5.1. Pure electric vehicles

Electric energy consumption		… Wh/km
Electric range		… km
Electric range city		… km

5.2 OVC hybrid electric vehicles

Electric energy consumption ($EC_{AC,weighted}$)		… Wh/km
Electric range (EAER)		… km
Electric range city (EAER city)		… km

Miscellaneous

51. For special purpose vehicles: designation in accordance with Annex II Section 5: …

52. Remarks [n]: …

Additional tyre/wheel combinations: technical parameters (no reference to RR)

SIDE 2

VEHICLE CATEGORY M_2

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

    1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase ([e]): … mm

    4.1. Axle spacing:

    1-2: … mm

    2-3: … mm

    3-4: … mm

5. Length: … mm

6. Width: … mm

7. Height: … mm

9. Distance between the front end of the vehicle and the centre of the coupling device: … mm

12. Rear overhang: … mm

Masses

13. Mass in running order: … kg

13.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg etc.

13.2. Actual mass of the vehicle: … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

17. Intended registration/in service maximum permissible masses in national/international traffic ([1])([o])

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:

1. … kg

2. … kg

3. … kg etc.

17.3. Intended registration/in service maximum permissible laden mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

17.4. Intended registration/in service maximum permissible mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/ NOVC-FCHV ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

27.3. Maximum net power: … kW (electric motor) ([1]) ([s])

27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track:

1. … mm

2. … mm

3. … mm etc.

33. Drive axle(s) fitted with air suspension or equivalent: yes/no ([1])

35. Tyre/wheel combination/Rolling Resistance Class (if applicable) ([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 ([1])

41. Number and configuration of doors: …

42. Number of seating positions (including the driver) ([k]): …

42.1. Seat(s) designated for use only when the vehicle is stationary: …

42.3. Number of wheelchair user accessible position: …

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: …/ U: …

Environmental performances

46. Sound level

Stationary: … dB(A) at engine speed: … min^{-1}

Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/(km/h)²

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: Type I or ESC (1)

CO: … . HC: … . . NO x : … . HC + NO x : … . Particulates: …. .

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: Type 1 (NEDC average values, WLTP highest values) or WHSC (EURO VI) ([1])

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): …

Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: … (m^{-1})

49. CO_2 emissions/fuel consumption/electric energy consumption ([m])([r]):

1. all power trains, except pure electric vehicles (if applicable)

NEDC values	CO_2 emissions	Fuel consumption in case of emission testing under NEDC according to Regulation (EC) No 692/2008
Urban conditions(1):	… g/km	… l/100 km or m^3/100 km or kg/100km ([1])
Extra-urban conditions(1):	… g/km	l/100 km or m^3/100 km or kg/100km ([1])
Combined(1):	… g/km	… l/100 km or m^3/100 km or kg/100km ([1])
Weighted(1), combined	… g/km	… l/100 km or m^3/100 km or kg/100km
Deviation factor (if applicable)		
Verification factor (if applicable)	‘1’ or ‘0’	

2. pure electric vehicles and OVC hybrid electric vehicles (if applicable)

Electric energy consumption (weighted, combined (1))		… Wh/km
Electric range		… km

3. Vehicle fitted with eco-innovation(s): yes/no ([1])

3.1. General code of the eco-innovation(s) ([p1]): …

3.2. Total CO_2 emissions savings due to the eco-innovation(s) ([p2]) (repeat for each reference fuel tested):

3.2.1. NEDC savings: …g/km (if applicable)

3.2.2. WLTP savings: …g/km (if applicable)

4. all power trains, except pure electric vehicle, under xxx/2016 (if applicable)

WLTP values	CO_2 emissions	Fuel consumption

Low [(1)]:	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Medium[(1)]:	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
High[(1)]:	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Extra High[(1)]:	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Combined:	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Weighted, combined[(1)]	… g/km	… l/100 km or m^3/100 km or kg/100km([1])

5. Pure electric vehicles and OVC hybrid electric vehicles, under xxx/2016 (if applicable)

5.1. Pure electric vehicles

Electric energy consumption		… Wh/km
Electric range		… km
Electric range city		… km

5.2 OVC hybrid electric vehicles

Electric energy consumption ($EC_{AC,weighted}$)		… Wh/km
Electric range (EAER)		… km
Electric range city (EAER city)		… km

Miscellaneous

51. For special purpose vehicles: designation in accordance with Annex II Section 5: …

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORY M_3

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … mm

5. Length: … mm

6. Width: … mm

7. Height: … mm9. Distance between the front end of the vehicle and the centre of the coupling device: … mm

12. Rear overhang: … mm

Masses

13. Mass in running order: … kg

13.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg etc.

13.2. Actual mass of the vehicle: … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

17. Intended registration/in service maximum permissible masses in national/international traffic ([1])([o])

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:

1. … kg

2. … kg

3. … kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group:

1. … kg

2. … kg

3. … kg

17.4. Intended registration/in service maximum permissible mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

27.3. Maximum net power: … kW (electric motor) ([1]) ([s])

27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

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 ([1])

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 ([1])

41. Number and configuration of doors: …

42. Number of seating positions (including the driver) ([k]): …

42.1. Seat(s) designated for use only when the vehicle is stationary: …

42.2. Number of passenger seating positions: … (lower deck) … (upper deck) (including the driver)

42.3. Number of wheelchair user accessible position: …

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: …/ U: …

Environmental performances

46. Sound level

Stationary: … dB(A) at engine speed: … min^{-1}

Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/(km/h)²

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: ESC

CO: … HC: … NO_x: … HC + NO_x: … Particulates: …

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: WHSC (EURO VI)

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: … (m^{-1})

Miscellaneous

51. For special purpose vehicles: designation in accordance with Annex II Section 5: …

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORY N_1

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase (^{e}): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … mm

5. Length: … mm

6. Width: … mm

7. Height: … mm8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum): … mm

9. Distance between the front end of the vehicle and the centre of the coupling device: … mm

11. Length of the loading area: … mm

Masses

13. Mass in running order: … kg

13.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

13.2. Actual mass of the vehicle: … kg

14. Mass of the base vehicle in running order: … kg ([1])([q])

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.2. Semi-trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/ NOVC-FCHV ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

27.3. Maximum net power: … kW (electric motor) ([1]) ([s])

27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track:

1. … mm

2. … mm

3. … mm

35. Tyre/wheel combination/Rolling Resistance Class (if applicable) ([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: …/ U: …

Environmental performances

46. Sound level

Stationary: … dB(A) at engine speed: … min^{-1}

Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/(km/h)²

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: Type 1 or ESC ([1])

CO: … HC: … NO_x: … HC + NO_x: … Particulates: …

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: Type 1 (NEDC average values, WLTP highest values) or WHSC (EURO VI) ([1])

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: … (m^{-1})

49. CO_2 emissions/fuel consumption/electric energy consumption ([m]) ([r]):

1. all power trains, except pure electric vehicles (if applicable)

NEDC values	CO_2 emissions	Fuel consumption in case of emission testing according to Regulation (EC) No 692/2008
Urban conditions([1]):	… g/km	… l/100 km or m^3/100 km or kg/100km ([1])
Extra-urban conditions([1]):	… g/km	l/100 km or m^3/100 km or kg/100km ([1])
Combined([1]):	… g/km	… l l/100 km or m^3/100 km or kg/100km ([1])
Weighted([1]), combined	… g/km	… l/100 km or m^3/100 km or kg/100km
Deviation factor (if applicable)		

2. pure electric vehicles and OVC hybrid electric vehicles (if applicable)

Electric energy consumption (weighted, combined ([1]))		… Wh/km
Electric range		… km

3. Vehicle fitted with eco-innovation(s): yes/no ([1])

3.1. General code of the eco-innovation(s) ([p1]): …

3.2. Total CO_2 emissions saving due to the eco-innovation(s) ([p2]) (repeat for each reference fuel tested):

3.2.1. NEDC savings:…g/km (if applicable)

3.2.2. WLTP savings:…g/km (if applicable)

4. all power trains except pure electric vehicles under xxx/2016

WLTP values	CO_2 emissions	Fuel consumption

Low ([1]):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Medium([1]):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
High([1]):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Extra High([1]):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Combined:	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Weighted, combined([1])	… g/km	… l/100 km or m^3/100 km or kg/100km([1])

5. Pure electric vehicles and OVC hybrid electric vehicles, under xxx/2016 (if applicable)

5.1. Pure electric vehicles ([1]) or (if applicable)

Electric energy consumption		… Wh/km
Electric range		… km
Electric range city		… km

5.2 OVC hybrid electric vehicles ([1]) or (if applicable)

Electric energy consumption ($EC_{AC,weighted}$)		… Wh/km
Electric range (EAER)		… km
Electric range city (EAER city)		… km

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods: yes/class(es): …/no ([l]):

51. For special purpose vehicles: designation in accordance with Annex II Section 5: …

52. Remarks ([n]): …

List of tyres: technical parameters (no reference to RR)

SIDE 2

VEHICLE CATEGORY N_2

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

    1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase ([e]): … mm

    4.1. Axle spacing:

    1-2: … mm

    2-3: … mm

    3-4: … mm

5. Length: … mm

6. Width: … mm

7. Height: … mm

8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum): … mm

9. Distance between the front end of the vehicle and the centre of the coupling device: … mm

11. Length of the loading area: … mm

12. Rear overhang: … mm

Masses

13. Mass in running order: … kg

13.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

13.2. Actual mass of the vehicle: … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

17. Intended registration/in service maximum permissible masses in national/international traffic ([1])([o])

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:

1. … kg

2. … kg

3. … kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group:

1. … kg

2. … kg

3. … kg

17.4. Intended registration/in service maximum permissible mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.2. Semi-trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

23.1. Class of Hybrid [electric] vehicle: OVC-HEV/NOVC-HEV/OVC-FCHV/ NOVC-FCHV ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

27.3. Maximum net power: … kW (electric motor) ([1]) ([s])

27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

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 ([1])

35. Tyre/wheel combination/Rolling Resistance Class (if applicable) ([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: …/ U: …

Environmental performances

46. Sound level

Stationary: … dB(A) at engine speed: … min^{-1}

Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/(km/h)²

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: Type 1 or ESC ([1])

CO: … HC: … NO_x: … HC + NO_x: … Particulates: …

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: Type 1 (NEDC average values, WLTP highest values) or WHSC (EURO VI) ([1])

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: … (m^{-1})

49. CO_2 emissions/fuel consumption/electric energy consumption ([m]) ([r]):

1. all power trains, except pure electric vehicles (if applicable)

NEDC values	CO_2 emissions	Fuel consumption in case of emission testing according to Regulation (EC) No 692/2008
Urban conditions([1]):	… g/km	… l/100 km or m^3/100 km or kg/100km ([1])
Extra-urban conditions([1]):	… g/km	l/100 km or m^3/100 km or kg/100km ([1])
Combined([1]):	… g/km	… l l/100 km or m^3/100 km or kg/100km ([1])

Weighted([1]), combined	… g/km	… l/100 km or m^3/100 km or kg/100km
Deviation factor (if applicable)		

2. pure electric vehicles and OVC hybrid electric vehicles (if applicable)

Electric energy consumption (weighted, combined ([1]))		… Wh/km
Electric range		… km

3. Vehicle fitted with eco-innovation(s): yes/no ([1])

3.1. General code of the eco-innovation(s) ([p1]): …

3.2. Total CO_2 emissions saving due to the eco-innovation(s) ([p2]) (repeat for each reference fuel tested):

3.2.1. NEDC savings:…g/km (if applicable)

3.2.2. WLTP savings:…g/km (if applicable)

4. all power trains except pure electric vehicles under xxx/2016

WLTP values	CO_2 emissions	Fuel consumption
Low ([1]):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Medium([1]):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
High([1]):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Extra High([1]):	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Combined:	… g/km	… l/100 km or m^3/100 km or kg/100km([1])
Weighted, combined([1])	… g/km	… l/100 km or m^3/100 km or kg/100km([1])

5. Pure electric vehicles and OVC hybrid electric vehicles, under xxx/2016 (if applicable)

5.1. Pure electric vehicles ([1]) or (if applicable)

Electric energy consumption		… Wh/km
Electric range		… km
Electric range city		… km

5.2 OVC hybrid electric vehicles ([1]) or (if applicable)

Electric energy consumption ($EC_{AC,weighted}$)		… Wh/km
Electric range (EAER)		… km
Electric range city (EAER city)		… km

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods: yes/class(es): …/no ([l]):

51. For special purpose vehicles: designation in accordance with Annex II Section 5: …

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORY N_3

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … mm

5. Length: … mm

6. Width: … mm

7. Height: … mm8. Fifth wheel lead for semi-trailer towing vehicle (maximum and minimum): … mm

9. Distance between the front end of the vehicle and the centre of the coupling device: … mm

11. Length of the loading area: … mm

12. Rear overhang: … mm

Masses

13. Mass in running order: … kg

13.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

13.2. Actual mass of the vehicle: … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

17. Intended registration/in service maximum permissible masses in national/international traffic ([1])([o])

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:

1. … kg

2. … kg

3. … kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group:

1. … kg

2. … kg

3. … kg

17.4. Intended registration/in service maximum permissible mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.2. Semi-trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

    23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

    26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

    26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

    27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

    27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

    27.3. Maximum net power: … kW (electric motor) ([1]) ([s])

    27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

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 ([1])

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: …/ U: …

Environmental performances

46. Sound level

Stationary: … dB(A) at engine speed: … min^{-1}

Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/(km/h)²

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: ESC

CO: … HC: … NO_x: … HC + NO_x: … Particulates: …

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: WHSC (EURO VI)

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: … (m^{-1})

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods: yes/class(es): …/no ([l]):

51. For special purpose vehicles: designation in accordance with Annex II Section 5: …

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORIES O_1 AND O_2

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … mm

5. Length: … mm

6. Width: … mm

7. Height: … mm

10. Distance between the centre of the coupling device and the rear end of the vehicle: … mm

11. Length of the loading area: … mm

12. Rear overhang: … mm

Masses

13. Mass in running order: … kg

13.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

13.2. Actual mass of the vehicle: … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

19. Technically permissible maximum static mass on the coupling point of a semi-trailer or centre-axle trailer: … kg

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: …/ U: …

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods: yes/class(es): …/no ([l]):

51. For special purpose vehicles: designation in accordance with Annex II Section 5: …

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORIES O_3 AND O_4

(complete and completed vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … mm

5. Length: … mm

6. Width: … mm

7. Height: … mm

10. Distance between the centre of the coupling device and the rear end of the vehicle: … mm

11. Length of the loading area: … mm

12. Rear overhang: … mm

Masses

13. Mass in running order: … kg

13.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

13.2. Actual mass of the vehicle: . . . . . kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

17. Intended registration/in service maximum permissible masses in national/international traffic ([1])([o])

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:

1. … kg

2. … kg

3. … kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group:

1. … kg

2. … kg

3. … kg

19. Technically permissible maximum static mass on the coupling point of a semi-trailer or centre-axle trailer: … kg

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: …/ U: …å

Miscellaneous

50. Type-approved according to the design requirements for transporting dangerous goods: yes/class(es): …/no ([l]):

51. For special purpose vehicles: designation in accordance with Annex II Section 5: …

52. Remarks ([n]): …

PART II

INCOMPLETE VEHICLES

MODEL C1 — SIDE 1

INCOMPLETE VEHICLES

EC CERTIFICATE OF CONFORMITY

Side 1

The undersigned [… (*Full name and position*)] hereby certifies that the vehicle:

0.1. Make (Trade name of manufacturer): …

0.2. Type: …

Variant ([a]): …

Version ([a]): …

0.2.1. Commercial name: …

0.2.2. For multi-stage approved vehicles, type-approval information of the base/previous stages vehicle

(list the information for each stage):

Type:……

Variant ([a]): ……

Version ([a]):……

Type-approval number, extension number ……..

0.4. Vehicle category: …

0.5. Company name and address of manufacturer: …

0.5.1. For multi-stage approved vehicles, company name and address of the manufacturer of the base/previous stage(s) vehicle ……..

0.6. Location and method of attachment of the statutory plates: …

Location of the vehicle identification number: …

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

0.10. Vehicle identification number: …

conforms in all respects to the type described in approval (… *type-approval number including extension number*) issued on (… *date of issue*) and

cannot be permanently registered without further approvals.

(Place) (Date): …	(Signature): …

MODEL C2 — SIDE 1

INCOMPLETE VEHICLES TYPE-APPROVED IN SMALL SERIES

[Year]	[Sequential number]

EC CERTIFICATE OF CONFORMITY

Side 1

The undersigned [… (*Full name and position*)] hereby certifies that the vehicle:

0.1. Make (Trade name of manufacturer): …

0.2. Type: …

Variant ([a]): …

Version ([a]): …

0.2.1. Commercial name: …

0.4. Vehicle category: …

0.5. Company name and address of manufacturer: …

0.6. Location and method of attachment of the statutory plates: …

Location of the vehicle identification number: …

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

0.10. Vehicle identification number: …

conforms in all respects to the type described in approval (… *type-approval number including extension number*) issued on (… *date of issue*) and

cannot be permanently registered without further approvals.

(Place) (Date): …	(Signature): …

SIDE 2

VEHICLE CATEGORY M_1

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … 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 in running order of the incomplete vehicle: … kg

14.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

15. Minimum mass of the vehicle when completed: … kg

15.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static vertical mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

27.3. Maximum net power: … kW (electric motor) ([1]) ([s])

27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track:

1. … mm

2. … mm

3. … mm

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

Stationary: … dB(A) at engine speed: … min^{-1}

Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/(km/h)²

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: Type 1 or ESC ([1])

CO: … HC: … NO_x: … HC + NO_x: … Particulates: …

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: Type 1 (NEDC average values, WLTP highest values)or WHSC (EURO VI) ([1])

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: … (m^{-1})

49. CO_2 emissions/fuel consumption/electric energy consumption ([m]):

1. all power trains except pure electric vehicles under xxx/2016

	CO_2 emissions	Fuel consumption
Urban conditions:	… g/km	… l/100 km/m^3/100 km ([1])
Extra-urban conditions:	… g/km	… l/100 km/m^3/100 km ([1])
Combined:	… g/km	… l/100 km/m^3/100 km ([1])
Weighted, combined	… g/km	… l/100 km

2. pure electric vehicles and OVC hybrid electric vehicles

Electric energy consumption (weighted, combined ([1]))		… Wh/km
Electric range		… km

Miscellaneous

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORY M_2

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … 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 in running order of the incomplete vehicle: … kg

14.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg etc.

15. Minimum mass of the vehicle when completed: … kg

15.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

17. Intended registration/in service maximum permissible masses in national/international traffic ([1])([o])

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:

1. … kg

2. … kg

3. … kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group:

1. … kg

2. … kg

3. … kg

17.4. Intended registration/in service maximum permissible mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

27.3. Maximum net power: … kW (electric motor) ([1]) ([s])

27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track:

1. … mm

2. … mm

3. … mm

33. Drive 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])

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: …/ U: …

Environmental performances

46. Sound level

Stationary: … dB(A) at engine speed: … min^{-1}

Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/$(km/h)^2$

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: Type 1 or ESC ([1])

CO: … HC: … NO_x: … HC + NO_x: … Particulates: …

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: Type 1 (NEDC average values, WLTP highest values)or WHSC (EURO VI) ([1])

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: … (m^{-1})

Miscellaneous

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORY M_3

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … 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 in running order of the incomplete vehicle: … kg

14.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg etc.

15. Minimum mass of the vehicle when completed: … kg

15.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

17. Intended registration/in service maximum permissible masses in national/international traffic ([1])([o])

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:

1. … kg

2. … kg

3. … kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group:

1. … kg

2. … kg

3. … kg

17.4. Intended registration/in service maximum permissible mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

27.3. Maximum net power: … kW (electric motor) ([1]) ([s])

27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

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 ([1])

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: …

45.1. Characteristics values ([1]): D: …/ V: …/ S: …/ U: …

Environmental performances

46. Sound level

Stationary: … dB(A) at engine speed: … min^{-1}

Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/(km/h)²

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: ESC

CO: … HC: … NO_x: … HC + NO_x: … Particulates: …

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: WHSC (EURO VI)

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates: …

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: … (m^{-1})

Miscellaneous

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORY N_1

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … 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): … mm

12.1. Maximum permissible rear overhang: … mm

Masses

14. Mass in running order of the incomplete vehicle: … kg

14.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg etc.

15. Minimum mass of the vehicle when completed: … kg

15.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.2. Semi-trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

    23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

    26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

    26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

    27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

    27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

    27.3. Maximum net power: … kW (electric motor) ([1]) ([s])

    27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

28. Gearbox (type): …

Maximum speed

29. Maximum speed: … km/h

Axles and suspension

30. Axle(s) track:

    1. … mm

    2. … mm

    3. … mm

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: …

45.1. Characteristics values ([1]): D: …/ V: …/ S: …/ U: …

Environmental performances

46. Sound level

Stationary: … dB(A) at engine speed: … min^{-1}

Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/(km/h)²

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: Type 1 or ESC ([1])

CO: … HC: … NO_x: … HC + NO_x: … Particulates: …

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: Type 1 (NEDC average values, WLTP highest values) or WHSC (EURO VI) ([1])

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates:

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number):

48.1. Smoke corrected absorption coefficient: … (m^{-1})

49. CO_2 emissions/fuel consumption/electric energy consumption ([m]):

1. all power trains except pure electric vehicles under xxx/2016

	CO_2 emissions	Fuel consumption
Urban conditions:	… g/km	… l/100 km/m^3/100 km ([1])
Extra-urban conditions:	… g/km	… l/100 km/m^3/100 km ([1])
Combined:	… g/km	… l/100 km/m^3/100 km ([1])
Weighted, combined	… g/km	… l/100 km

2. pure electric vehicles and OVC hybrid electric vehicles

Electric energy consumption (weighted, combined ([1]))		… Wh/km
Electric range		… km

3. Vehicle fitted with eco-innovation(s): yes/no ([1])

3.1. General code of the eco-innovation(s) ([p1]): …

3.2. Total CO_2 emissions saving due to the eco-innovation(s) ([p2]) (repeat for each reference fuel tested): …

Miscellaneous

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORY N_2

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … 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): … mm

12.1. Maximum permissible rear overhang: … mm

Masses

14. Mass in running order of the incomplete vehicle: … kg

14.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg etc.

15. Minimum mass of the vehicle when completed: … kg

15.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

17. Intended registration/in service maximum permissible masses in national/international traffic ([1]) ([o])

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:

1. … kg

2. … kg

3. … kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group:

1. … kg

2. … kg

3. … kg

17.4. Intended registration/in service maximum permissible mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.2. Semi-trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

27.3. Maximum net power: … kW (electric motor) ([1]) ([s])

27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

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 ([1])

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: …

45.1. Characteristics values ([1]): D: …/ V: …/ S: …/ U: …

Environmental performances

46. Sound level

Stationary: … dB(A) at engine speed: … min^{-1}

Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/(km/h)²

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: Type 1 or ESC ([1])

CO: … HC: … NO_x: … HC + NO_x: … Particulates: …

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: Type 1 (NEDC average values, WLTP highest values) or WHSC (EURO VI) ([1])

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates:

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: … (m^{-1})

Miscellaneous

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORY N_3

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

2. Steered axles (number, position): …

3. Powered axles (number, position, interconnection): … …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … 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): … mm

12.1. Maximum permissible rear overhang: … mm

Masses

14. Mass in running order of the incomplete vehicle: … kg

14.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg etc.

15. Minimum mass of the vehicle when completed: … kg

15.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

16.4. Technically permissible maximum mass of the combination: … kg

17. Intended registration/in service maximum permissible masses in national/international traffic ([1]) ([o])

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:

1. … kg

2. … kg

3. … kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group:

1. … kg

2. … kg

3. … kg

17.4. Intended registration/in service maximum permissible mass of the combination: … kg

18. Technically permissible maximum towable mass in case of:

18.1. Drawbar trailer: … kg

18.2. Semi-trailer: … kg

18.3. Centre-axle trailer: … kg

18.4. Unbraked trailer: … kg

19. Technically permissible maximum static mass at the coupling point: … kg

Power plant

20. Manufacturer of the engine: …

21. Engine code as marked on the engine: …

22. Working principle: …

23. Pure electric: yes/no ([1])

    23.1. Hybrid [electric] vehicle: yes/no ([1])

24. Number and arrangement of cylinders: …

25. Engine capacity: … cm^3

26. Fuel: Diesel/petrol/LPG/CNG-Biomethane/LNG/Ethanol/Biodiesel/Hydrogen ([1])

    26.1. Mono fuel/Bi fuel/Flex fuel/Dual-fuel ([1])

    26.2. (Dual-fuel only) Type 1A/Type 1B/Type 2A/Type 2B/Type 3B ([1])

27. Maximum power

    27.1. Maximum net power ([g]): … kW at … min^{-1} (internal combustion engine) ([1])

    27.2. Maximum hourly output: … kW (electric motor) ([1]) ([s])

    27.3. Maximum net power: … kW (electric motor) ([1]) ([s])

    27.4. Maximum 30 minutes power: … kW (electric motor) ([1]) ([s])

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 ([1])

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: …

45.1. Characteristics values ([1]): D: …/ V: …/ S: …/ U: …

Environmental performances

46. Sound level

Stationary: … dB(A) at engine speed: … min^{-1}

Drive-by: … dB(A)

47. Exhaust emission level ([l]): Euro …

47.1. Parameters for emission testing

47.1.1 Test mass, kg: …

47.1.2. Frontal area, m2: …

47.1.3. Road load coefficients

47.1.3.0. f0, N:

47.1.3.1. f1, N/(km/h):

47.1.3.2. f2, N/(km/h)²

48. Exhaust emissions ([m])([m1])([m2]):

Number of the base regulatory act and latest amending regulatory act applicable: …

1.1. test procedure: ESC

CO: … HC: … NO_x: … HC + NO_x: … Particulates: …

Smoke opacity (ELR): … (m^{-1})

1.2. test procedure: WHSC (EURO VI)

CO: … THC: … NMHC: … NO_x: … THC + NO_x: … NH_3: … Particulates (mass): … Particles (number): …

2.1. test procedure: ETC (if applicable)

CO: … NO_x: … NMHC: … THC: … CH_4: … Particulates:

2.2. test procedure: WHTC (EURO VI)

CO: … NO_x: … NMHC: … THC: … CH_4: … NH_3: … Particulates (mass): … Particles (number): …

48.1. Smoke corrected absorption coefficient: … (m^{-1})

Miscellaneous

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORIES O_1 AND O_2

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … 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 rear end of the vehicle: … mm

12.1. Maximum permissible rear overhang: … mm

Masses

14. Mass in running order of the incomplete vehicle: … kg

14.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

15. Minimum mass of the vehicle when completed: … kg

15.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

19.1. Technically permissible maximum static mass on the coupling point of a semi-trailer or centre-axle trailer: … kg

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: …

45.1. Characteristics values ([1]): D: …/ V: …/ S: …/ U: …

Miscellaneous

52. Remarks ([n]): …

SIDE 2

VEHICLE CATEGORIES O_3 AND O_4

(incomplete vehicles)

Side 2

General construction characteristics

1. Number of axles: … and wheels: …

1.1. Number and position of axles with twin wheels: …

2. Steered axle (number, position): …

Main dimensions

4. Wheelbase ([e]): … mm

4.1. Axle spacing:

1-2: … mm

2-3: … mm

3-4: … 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 rear end of the vehicle: …mm

12.1. Maximum permissible rear overhang: …mm

Masses

14. Mass in running order of the incomplete vehicle: … kg

14.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg etc.

15. Minimum mass of the vehicle when completed: … kg

15.1. Distribution of this mass amongst the axles:

1. … kg

2. … kg

3. … kg

16. Technically permissible maximum masses

16.1. Technically permissible maximum laden mass: … kg

16.2. Technically permissible mass on each axle:

1. … kg

2. … kg

3. … kg etc.

16.3. Technically permissible mass on each axle group:

1. … kg

2. … kg

3. … kg etc.

17. Intended registration/in service maximum permissible masses in national/international traffic ([1]) ([o])

17.1. Intended registration/in service maximum permissible laden mass: … kg

17.2. Intended registration/in service maximum permissible laden mass on each axle:

1. … kg

2. … kg

3. … kg

17.3. Intended registration/in service maximum permissible laden mass on each axle group:

1. … kg

2. … kg

3. … kg

19.1. Technically permissible maximum static mass on the coupling point of a semi-trailer or centre-axle trailer: … kg

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: …

45.1. Characteristics values ([1]): D: …/ V: …/ S: …/ U: …

Miscellaneous

52. Remarks ([n]): …

Explanatory notes relating to Annex IX

([1])		Delete where not applicable
([a])		Indicate the identification code ---
([b])		Indicate whether the vehicle is suitable for use in either right or left-hand traffic or both right and left-hand traffic.
([c])		Indicate whether the speedometer and/or odometer fitted has metric or both metric and imperial units.
([d])		This statement shall not restrict the right of the Member States to require technical adaptations in order to allow the registration of a vehicle in a Member State other than the one for which it was intended when the direction of the traffic is on the opposite side of the road.
([e])		Entries 4 and 4.1 shall be completed in accordance with definitions 25 (Wheelbase) and 26 (Axle spacing) of Regulation (EU) No 1230/2012 respectively
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([g])		For hybrid electric vehicles, indicate both power outputs.
([h])		Optional equipment under this letter can be added under entry ‘Remarks’.
([i])		The codes described in Annex II Letter C shall be used.
([j])		Indicate only the basic colour(s) as follows: white, yellow, orange, red, violet, blue, green, grey, brown or black.
([k])		Excluding seats designated for use only when the vehicle is stationary and the number of wheelchair positions. For coaches belonging to the vehicle category M_3 the number of crew members shall be included in the passenger number.
([l])		Add the number of the Euro level and the character corresponding to the provisions used for type-approval.
([m])		Repeat for the various fuels that can be used. Vehicles that can be fuelled with both petrol and gaseous fuel but in which the petrol system is fitted for emergency purposes or for starting only and the petrol tank of which cannot contain more than 15 litres of petrol will be regarded as vehicles that can only run on a gaseous fuel.

([m1])		In case of EURO VI dual-fuel engines and vehicles, repeat as appropriate.
([m2])		Solely emissions assessed in accordance with the applicable regulatory act or acts shall be stated.
([n])		If the vehicle is equipped with 24 GHz short-range radar equipment in accordance with Commission Decision 2005/50/EC (OJ L 21, 25.1.2005, p. 15), the manufacturer shall indicate here: 'Vehicle equipped with 24 GHz short-range radar equipment'.
([o])		The manufacturer may complete these entries either for international traffic or national traffic or both. For national traffic, the code of the country where the vehicle is intended to be registered shall be mentioned. The code shall be in accordance with standard ISO 3166-1:2006. For international traffic, the directive number shall be referred to (e.g. '96/53/EC' for Council Directive 96/53/EC).
([p])		Eco-innovations.
([p1])		The general code of the eco-innovation(s) shall consist of the following elements, each separated by a blank space: – Code of the approval authority as set out in Annex VII; – Individual code of each eco-innovation fitted in the vehicle, indicated in chronological order of the Commission approval decisions. (E.g. the general code of three eco-innovations approved chronologically as 10, 15 and 16 and fitted to a vehicle certified by the German type-approval authority should be: 'e1 10 15 16'.)
([p2])		Sum of the CO_2 emissions savings of each individual eco-innovation.
([q])		In the case of completed vehicles of category N_1 within the scope of Regulation (EC) No 715/2007.
(r)		Only applicable if the vehicle is approved to Regulation (EC) 715/2007
(s)		In the case of more than one electric motor indicate the consolidated effect of all the engines.

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