

Commission Regulation (EU) No 109/2011 of 27 January 2011 implementing Regulation (EC) No 661/2009 of the European Parliament and of the Council as regards type-approval requirements for certain categories of motor vehicles and their trailers as regards spray suppression systems (Text with EEA relevance)

Article 1	Scope
Article 2	Definitions
Article 3	EC type-approval of a vehicle with regard to spray suppression systems
Article 4	EC separate technical unit type-approval of spray suppression systems
Article 5	EC separate technical unit type-approval mark
Article 6	Validity and extension of approvals granted under Directive 91/226/EEC
Article 7	Entry into force Signature

ANNEX I

ADMINISTRATIVE DOCUMENTS FOR EC TYPE-APPROVAL OF VEHICLES WITH REGARD TO THEIR SPRAY SUPPRESSION SYSTEMS

PART 1

Information document

MODEL

0. GENERAL
 - 0.1. Make (trade name of manufacturer): ...
 - 0.2. Type: ...
 - 0.2.1. Commercial name(s) (if available): ...
 - 0.3. Means of identification of type, if marked on the vehicle(b):...
 - 0.3.1. Location of that marking: ...
 - 0.4. Category of vehicle(c): ...
 - 0.5. Name and address of manufacturer: ...
 - 0.8. Address(es) of assembly plant(s): ...
 - 0.9. Name and address of the manufacturer's representative (if any):
1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE
 - 1.1. Photographs and/or drawings of a representative vehicle: ...
 - 1.3. Number of axles and wheels: ...
 - 1.3.1. Number and position of axles with twin wheels: ...
 - 1.3.2. Number and position of steered axles: ...
2. MASSES AND DIMENSIONS(f)(g)
 - 2.1. Wheelbase(s) (fully loaded)(g)(l): ...
 - 2.6. Mass in running order (maximum and minimum for each variant)...
 - 2.6.1. Distribution of this mass among the axles and, in the...
 - 2.8. Technically permissible maximum laden mass stated by the manufacturer(i)(3):

9. BODYWORK

- 9.20. Spray-suppression system: ...
 - 9.20.0. Presence: yes/no/incomplete(1): ...
 - 9.20.1. Brief description of the vehicle with regard to its spray-suppression...
 - 9.20.2. Detailed drawings of the spray-suppression system and its position on...
 - 9.20.3. Approval number(s) of spray-suppression device(s), if available: ...

PART 2

MODEL (maximum format: A4 (210 × 297 mm)) EC TYPE-APPROVAL CERTIFICATE Stamp of...EC TYPE-APPROVAL CERTIFICATE Stamp of approval authority Communication concerning: Delete...

SECTION I

0.1. Make (trade name of manufacturer): ...

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

SECTION II

1. Additional information: see Addendum.

- 1. Additional information: see Addendum.
- 2. Technical service responsible for carrying out the tests: ...
- 3. Date of test report: ...
- 4. Number of test report: ...
- 5. Remarks (if any): see Addendum.
- 6. Place: ...
- 7. Date: ...
- 8. Signature: ...
- 9. The index to the information package lodged with the approval...

Addendum

to EC type-approval certificate No

- 1. Additional information
 - 1.1. Characteristics of the spray suppression devices (type, brief description, trade...
- 5. Remarks (if any):

ANNEX II

ADMINISTRATIVE DOCUMENTS FOR EC TYPE-APPROVAL OF SPRAY SUPPRESSION SYSTEMS AS SEPARATE TECHNICAL UNITS

PART 1

Information document

MODEL

0. GENERAL
 - 0.1. Make (trade name of manufacturer): ...
 - 0.2. Type: ...
 - 0.5. Name and address of manufacturer: ...
 - 0.7. In the case of components and separate technical units, location...
 - 0.8. Address(es) of assembly plant(s): ...
 - 0.9. Name and address of the manufacturer's representative (if any):
1. DESCRIPTION OF THE DEVICE
 - 1.1. A technical description of the spray suppression device indicating its...
 - 1.2. The materials used: ...
 - 1.3. Drawing(s) in sufficient detail and to an appropriate scale to...

PART 2

MODEL (maximum format: A4 (210 × 297 mm)) EC TYPE-APPROVAL
CERTIFICATE Stamp of approval...EC TYPE-APPROVAL CERTIFICATE Stamp of
approval authority Communication concerning: Delete...

SECTION I

0.1. Make (trade name of manufacturer) ...

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

SECTION II

1. Additional information (where applicable): see Addendum.

1. Additional information (where applicable): see Addendum.
2. Technical service responsible for carrying out the tests: ...
3. Date of test report: ...
4. Number of test report: ...
5. Remarks (if any): see Addendum.
6. Place: ...
7. Date: ...
8. Signature: ...
9. The index to the information package lodged with the approval...

Annex II EC type-approval certificate No

1. Additional information
 - 1.1. Operating principle of device: energy-absorption/air/water separator:
 - 1.2. Characteristics of spray suppression devices (brief description, trademark or name,...
5. Remarks (if any):

PART 3

EC separate technical unit type-approval mark

1. The EC separate technical unit type-approval mark shall consist of:...
 - 1.1. A rectangle surrounding the lower-case letter 'e' followed by the...
 - 1.2. In the vicinity of the rectangle the 'base approval number'...
2. The EC separate technical unit type-approval mark shall be affixed...
3. An example of an EC separate technical unit type-approval mark...
Example of EC separate technical unit type-approval mark

Explanatory note

Legend The EC separate technical unit type-approval was issued by The...

ANNEX III

PART 1

Requirements for spray suppression devices

0. GENERAL SPECIFICATIONS
 - 0.1. Spray-suppression devices must be constructed in such a way that...
1. TESTS TO BE CARRIED OUT
 - 1.1. Depending on their physical operating principle spray-suppression devices are subjected...
2. APPLICATION FOR EC COMPONENT TYPE-APPROVAL
 - 2.1. The application for EC component type-approval pursuant to Article 7...
 - 2.2. A model for the information document is set out in...
 - 2.3. The following shall be submitted to the technical service responsible...
 - 2.4. Markings
 - 2.4.1. Each sample must be clearly and indelibly marked with the...
 - 2.4.2. A symbol 'A' for devices of the energy-absorption type or...

PART 2

Tests on spray-suppression devices of the energy-absorber type

1. PRINCIPLE
2. EQUIPMENT

3. TEST CONDITIONS
 - 3.1. The tests must be carried out in a closed room...
 - 3.2. The ambient temperature and the temperature of the test pieces...
 - 3.3. De-ionised water is to be used.
 - 3.4. The test pieces must be prepared for each test by...
4. PROCEDURE
 - 4.1. Secure a 500 (+ 0/- 5) mm wide 750 mm high...
 - 4.2. Set the water flow rate at 0,675 (+/- 0,01) l/s...
 - 4.3. Allow the water to trickle from the sample into the...
 - 4.4. Carry out the test five times on the sample according...
5. RESULTS
 - 5.1. The average percentage calculated in point 4.4 must be 70 %...
 - 5.2. If within a series of five tests the highest and...
 - 5.3. Test whether the vertical position of the device influences the...

PART 3

Test on spray-suppression devices of the air/water separator type

1. PRINCIPLE
2. EQUIPMENT
3. TEST CONDITIONS
 - 3.1. The tests must be carried out in a closed room...
 - 3.2. The ambient temperature and the temperature of the test pieces...
 - 3.3. De-ionised water must be used.
 - 3.4. The test pieces must be prepared for each test by...
4. PROCEDURE
 - 4.1. Secure a 305 × 100 mm sample vertically in the test assembly,...
 - 4.2. The pulveriser must be regulated as follows:
 - 4.3. Pulverise until there is no more water mist and note...
 - 4.4. Carry out the test five times and calculate the average...
5. RESULTS
 - 5.1. The average percentage calculated in point 4.4 must be 85 %...
 - 5.2. If within a series of five tests the highest and...
 - 5.3. Where the vertical position of the device influences the results...

ANNEX IV

Requirements for type-approval of vehicles with regard to their spray suppression systems

0. GENERAL
 - 0.1. Category N and O vehicles, with the exception of off-road...
 - 0.2. The requirements of this Annex relating to spray-suppression devices, as...
1. A vehicle representative of the vehicle type to be approved,...

GENERAL REQUIREMENTS

2. AXLES
 - 2.1. Retractable axles
 - 2.2. Self-tracking axles
3. POSITION OF OUTER VALANCE
4. STATE OF VEHICLE
5. SPRAY-SUPPRESSION SYSTEMS
 - 5.1. The spray-suppression system must meet the specifications set out in...
 - 5.2. The spray-suppression system for non-steered or self-steered wheels that are...

SPECIFIC REQUIREMENTS

6. Requirements concerning energy-absorption spray suppression systems for axles fitted with...
 - 6.1. Mudguards
 - 6.1.1. The mudguards must cover the zone immediately above, ahead and...
 - 6.1.2. The front side of the rear part of the mudguard...
 - 6.1.3. If the mudguards are made up of several components, when...
 - 6.2. Outer valances
 - 6.2.1. In the case of single axles, the lower edge of...
Air suspension:
Mechanical suspension
 - 6.2.2. In the case of multiple axles the requirements laid down...
 - 6.2.3. The distance between the uppermost and the lowermost points of...
 - 6.2.4. No openings enabling spray to emerge when the vehicle is...
 - 6.2.5. The requirements of points 6.2.3 and 6.2.4 may not be...
 - 6.2.6. Tractors for semi-trailers with a low chassis, namely those which...
 - 6.3. Rain flaps
 - 6.3.1. The width of the flap must fulfil the requirement for...
 - 6.3.2. The orientation of the flap must be basically vertical.
 - 6.3.3. The maximum height of the bottom edge must not exceed...
 - 6.3.4. The rain flap must not be more than 300 mm from...
 - 6.3.5. In the case of multiple axles where distance d between...
 - 6.3.6. Rain flaps must not be deflected by more than 100 mm...
 - 6.3.7. The whole of the front face of the part of...
 - 6.3.8. No openings enabling spray to emerge are allowed between the...
 - 6.3.9. Where the spray-suppression device meets the specifications relating to rain...
7. Requirements relating to spray-suppression systems fitted with energy-absorption spray-suppression devices...
 - 7.1. Mudguards
 - 7.1.1. Mudguards must cover the zone immediately above the tyre or...
 - 7.1.2. All of the inner rear part of the mudguard must...
 - 7.2. Outer valances
 - 7.2.1. In the case of single or multiple axles where the...
 - 7.2.2. No openings enabling spray to emerge are allowed between the...
 - 7.2.3. Where rain flaps are not fitted behind each wheel (see...

- 7.2.4. The entire inner surface of the outer valance, the height...
- 7.3. These flaps must extend to the lower part of the...
- 8. Requirements concerning spray-suppression systems fitted with air/water separator spray-suppression devices...
 - 8.1. Mudguards
 - 8.1.1. Mudguards must comply with the requirements of point 6.1.1(c).
 - 8.1.2. Mudguards for single or multiple axles where the distance between...
 - 8.1.3. In the case, of multiple axles where the distance between...
 - 8.2. Outer valances
 - 8.2.1. The lower edges of the outer valances must be fitted...
 - 8.2.2. In the case of single or multiple axles where the...
 - 8.2.3. In the case of multiple axles where the distance between...
 - 8.2.4. The depth of the outer valance must extend to not...
 - 8.2.5. No openings enabling spray to emerge are allowed in the...
 - 8.3. Rain flaps
 - 8.3.1. Rain flaps must:
 - 8.3.2. Spray suppression equipment complying with the specifications set out in...
 - 8.3.2.1. The lower edge of the spray-suppression device must be not...
 - 8.3.2.2. The spray-suppression device must be at least 100 mm deep.
 - 8.3.2.3. Apart from the lower part, which includes the spray-suppression device,...
 - 8.3.3. The rain flap must not be more than 200 mm from...
- 9. In the case of multiple axles, the spray-suppression system of...

ANNEX V

Conformity of production and cessation of production

- 1. Conformity of production
 - 1.1. Any spray-suppression device bearing the EC component type-approval mark must...
 - 1.2. A type of device is defined by the model and...
 - 1.3. The manufacturer carries out routine checks in order to guarantee...
 - 1.4. The competent authorities may also conduct spot checks.
 - 1.5. Conformity of production with the type of device that has...
 - 1.6. Devices are deemed to conform if 9 out of 10...
 - 1.7. If the condition specified in point 1.6 is not satisfied,...
- 2. Cessation of production

ANNEX VI

FIGURES

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

- (1) OJ L 200, 31.7.2009, p. 1.
- (2) OJ L 263, 9.10.2007, p. 1.
- (3) OJ L 103, 23.4.1991, p. 5.