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Appendix 1

Information document
Directive 2003/97/EC of the European Parliament and of the Council
No ...
relating
to EC
type-
approval
of a
device
for
indirect
vision

.....

0.	GENERAL
0.1.	.....
0.2.	.....
0.3.	.....
0.4.	.....
0.5.	.....
0.7.	.....
0.8.	.....
1.	DEVICE FOR INDIRECT VISION
1.1.	.....
1.1.3.	.....
1.1.4.	.....
1.1.5.	.....
1.2.	.....
1.2.1.	.....
1.2.1.1.	.....
1.2.1.2.	.....

Appendix 2

Model EC component type-approval certificate for a device for indirect vision

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Appendix 3

Information Directive 2003/97/EC of the European Parliament and of the Council
document
No ...
relating
to EC

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type-
approval
of a
vehicle

.....

0. GENERAL

0.1.

0.2.

0.2.1.

0.3.

0.3.1.

0.4.

0.5.

0.8.

1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE

1.1.

1.7.

1.8.

1.8.1.

2.4.

2.4.1.

2.4.1.2.

2.4.1.2.1.

2.4.1.2.2.

2.4.2.

2.4.2.2.

9. BODYWORK

9.9.

9.9.1.

9.9.1.4.

9.9.1.5.

9.9.1.6.

9.9.1.7.

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- 9.9.2.
- 9.9.2.1.2.

Appendix 4

Model EC type-approval certificate for a vehicle with regard to the installation of devices for indirect vision

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- 2.
- 3.
- 3.1.
- 4.
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- 12.

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- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.

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Appendix 5

EC component type-approval mark

- 1. GENERAL
 - 1.1.
 - 1.2.
 - 1.3.
- 2. EXAMPLES OF THE EC COMPONENT TYPE-APPROVAL MARK
 - 2.1.
Examples of EC component type-approval marks and the additional symbol
Example No 1
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Example No 2
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Example No 3
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Example No 4
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Example No 5

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Appendix 6

Procedure for determining the H point and verifying the relative positions of the R and H points

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Appendix 7

Determination of the ocular points for a seat with a fixed seat-back angle

1. The position of the ocular points in relation to the R point shall be adjusted as indicated in the table below by X coordinates from the three-dimensional reference grid. The table indicates the basic coordinates for a fixed seat-back angle of 25 degrees. The three-dimensional reference grid for the coordinates is as defined in point 2.3 of Annex I to Directive 77/649/EEC as amended.

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2. Further correction for fixed seat-back angles other than 25

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ANNEX II

DESIGN SPECIFICATIONS AND TESTS REQUIRED FOR EC COMPONENT TYPE-APPROVAL OF A DEVICE FOR INDIRECT VISION

A. MIRRORS

1. General specifications

1.1.

1.2.

1.3.

1.3.1.

1.4.

1.5.

1.6.

2. Dimensions

2.1. Interior rear-view mirrors (Class I)

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2.2. Main exterior rear-view mirrors (Classes II and III)

2.2.1. The dimensions of the reflecting surface must be such that it is possible to inscribe therein:

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2.2.2. The minimum values of ‘a’ and ‘b’ are given in the table below:

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2.3. ‘Wide-angle’ exterior mirrors (Class IV)

.....

2.4. ‘Close-proximity’ exterior mirrors (Class V)

.....

2.5. Front mirrors (Class VI)

.....

3. Reflecting surface and coefficients of reflection

3.1.

3.2. Differences between the radii of curvature of mirrors

3.2.1.

3.2.2.

3.2.3.

3.3. Requirements for aspherical parts of mirrors

3.3.1.

3.3.2.

3.4.

3.4.1.

3.4.2.

3.4.3.

3.4.4.

3.5.

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3.6.

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4. Tests

4.1.

4.1.1.

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4.2. Impact test

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4.2.1. Description of the test rig

4.2.1.1.

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Figure 2 gives the dimensions of the test rig and the special design specifications:

4.2.1.2.

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4.2.2. Description of the test

4.2.2.1.

4.2.2.2. Positioning of the mirror for the test

4.2.2.2.1.....

4.2.2.2.2.....

4.2.2.2.3.....

4.2.2.2.4.....

4.2.2.3.

4.2.2.4.

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4.2.2.5.

4.2.2.6.

4.2.2.6.1.....

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4.2.2.6.2.....

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5. Results of the test

5.1.

5.1.1.

5.1.2.

5.2.

5.3.

5.3.1.

5.3.2.

B. DEVICES FOR INDIRECT VISION OTHER THAN MIRRORS

1. General requirements

1.1.

1.2.

2. Camera-monitor devices for indirect vision

2.1. General requirements

2.1.1.

2.1.2.

2.1.3.

2.2. Functional requirements

2.2.1.

2.2.2.

2.2.3.

2.2.4.

3. Other devices for indirect vision

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3.1.

3.2.

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Procedure for determining the radius of curvature ‘r’ of the reflecting surface of a mirror

- 1. Measurement
 - 1.1. Equipment
 -
 - 1.2. Measuring points
 - 1.2.1.
 - 1.2.2.
- 2. Calculation of the radius of curvature ‘r’
 -
 -
 -
 -

Figure 3: spherometer

Appendix 2

Test method for determining reflectivity

- 1. DEFINITIONS
 - 1.1.
 - 1.2.
 - 1.3.
 - 1.4.
 - 1.5.
- 2. APPARATUS
 - 2.1. General
 -
 -
 - 2.2. Spectral characteristics of light source and receiver
 -
 -
 - 2.3. Geometrical conditions
 -
 -

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2.4. Electrical characteristics of the photodetector-indicator unit

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2.5. Sample holder

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3. PROCEDURE

3.1. Direct calibration method

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3.2. Indirect calibration method

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3.3. Flat mirror measurement

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3.4. Non-flat (convex) mirror measurement

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Spectral tristimulus values for the CIE 1931 standard colorimetric observer

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ANNEX III

REQUIREMENTS CONCERNING THE FITTING OF MIRRORS
AND OTHER DEVICES FOR INDIRECT VISION TO VEHICLES

General

1.1.

1.2.

1.3.

Mirrors

2. Number

2.1. Minimum number of compulsory mirrors

2.1.1.

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2.1.2.

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2.2.

3. Position

3.1.

3.2.

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3.3.

3.4.

3.5.

3.6.

3.7.

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3.8.

4. Adjustment

4.1.

4.2.

4.3.

5. Fields of vision

5.1. Interior rear-view mirror (Class I)

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5.2. Main exterior rear-view mirrors Class II

5.2.1. Exterior rear-view mirror on the driver's side

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5.2.2. Exterior rear-view mirror on the passenger's side

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5.3. Main exterior rear-view mirrors Class III

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5.3.1. Exterior rear-view mirror on the driver's side

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5.3.2. Exterior rear-view mirror on the passenger's side

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5.4. 'Wide-angle' exterior mirror (Class IV)

5.4.1. 'Wide-angle' exterior mirror on the driver's side

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5.4.2. 'Wide-angle' exterior mirror on the passenger's side

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5.5. 'Close-proximity' exterior mirror (Class V)

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5.5.1.
5.5.2.
5.5.3.
5.5.4.
5.5.5.

5.6. Front mirror (Class VI)

5.6.1.
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5.6.2.

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5.7.

5.8. Obstructions

5.8.1. Interior rear-view mirror (Class I)

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5.8.2. Exterior mirrors (Classes II, III, IV, V and VI)

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5.9. Test procedure

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Devices for indirect vision other than mirrors

6.

7.

8.

9. Installation requirements for the monitor

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10.

10.1.

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10.2.

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Appendix

Calculation of the detection distance

1. CAMERA MONITOR DEVICE FOR INDIRECT VISION

1.1. Resolution threshold of a camera

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1.2. Determination of the critical viewing distance of the monitor

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1.3. Determination of the detection distance

1.3.1.

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1.3.2.

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2. SECONDARY FUNCTIONAL REQUIREMENTS

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ANNEX IV

CORRELATION TABLE PROVIDED FOR IN ARTICLE 6