

Directive 96/79/EC of the European Parliament and of the Council of 16 December 1996 on the protection of occupants of motor vehicles in the event of a frontal impact and amending Directive 70/156/EEC (repealed)

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|-----------|-------|
| Article 1 | |
| Article 2 | |
| Article 3 | |
| Article 4 | |
| Article 5 | |
| Article 6 | |
| Article 7 | |

ANNEX I

ADMINISTRATIVE PROVISIONS FOR THE TYPE-APPROVAL OF A VEHICLE TYPE

| | |
|--------|---|
| 1. | APPLICATION FOR EC TYPE-APPROVAL |
| 1.1. | ..... |
| 1.2. | ..... |
| 1.3. | ..... |
| 1.4. | ..... |
| 2. | EC TYPE-APPROVAL |
| 2.1. | ..... |
| 2.2. | ..... |
| 2.3. | ..... |
| 2.4. | ..... |
| 3. | MODIFICATION OF THE TYPE AND AMENDMENTS TO TYPE-APPROVALS |
| 3.1. | ..... |
| 3.2. | ..... |
| 3.3. | ..... |
| 3.3.1. | ..... |
| 3.3.2. | ..... |
| 4. | CONFORMITY OF PRODUCTION |
| 4.1. | ..... |

Appendix 1

Information document No ...

.....
.....

| | |
|------|---------|
| 0. | General |
| 0.1. | ..... |

| | |
|----------|---|
| 0.2. | ..... |
| 0.3. | ..... |
| 0.3.1. | ..... |
| 0.4. | ..... |
| 0.5. | ..... |
| 0.8. | ..... |
| 1. | General construction characteristics of the vehicle |
| 1.1. | ..... |
| 1.6. | ..... |
| 2. | Masses and dimensions (e) (in kg and mm) (refer to... |
| 2.4. | ..... |
| 2.4.2. | ..... |
| 2.4.2.1. | ..... |
| 2.4.2.2. | ..... |
| 2.4.2.6. | ..... |
| 2.4.2.7. | ..... |
| 2.6. | ..... |
| 2.6.1. | ..... |
| 7. | Steering |
| 7.2. | ..... |
| 7.2.6. | ..... |
| 9. | Bodywork |
| 9.1. | ..... |
| 9.2. | ..... |

Appendix 2

MODEL

Addendum to EC type-approval certificate No ... concerning the type-approval of...concerning the type-approval of a vehicle with regard to Directive...

| | |
|------|------------------------|
| 1. | Additional information |
| 1.1. | ..... |
| 1.2. | ..... |
| 1.3. | ..... |
| 1.4. | ..... |
| 1.5. | ..... |
| 1.6. | ..... |
| 5. | ..... |
| 6. | ..... |

ANNEX II

TECHNICAL REQUIREMENTS

| | |
|------|-------|
| 1. | SCOPE |
| 1.1. | ..... |

2. DEFINITIONS

- 2.1.
- 2.2.
- 2.3.
- 2.4.
- 2.5.
- 2.6.
- 2.6.1.
- 2.6.2.
- 2.6.3.
- 2.6.4.
- 2.6.5.
- 2.6.6.
- 2.7.
- 2.8.
- 2.9.
- 2.10.
- 2.11.

3. REQUIREMENTS

- 3.1. General specification applicable to all tests
 - 3.1.1.
- 3.2. Specifications
 - 3.2.1.
 - 3.2.1.1.
 - 3.2.1.2.
 - 3.2.1.3.
 - 3.2.1.4.
 - 3.2.1.5.
 - 3.2.1.6.
 - 3.2.1.7.
 - 3.2.1.8.
 - 3.2.1.9.
 - 3.2.2.
 - 3.2.3.
 - 3.2.4.
 - 3.2.5.
 - 3.2.5.1.
 - 3.2.5.2.
 - 3.2.5.3.
 - 3.2.6.

Appendix 1

TEST PROCEDURE

1. INSTALLATION AND PREPARATION OF THE VEHICLE

- 1.1. Testing ground
- 1.2. Barrier
- 1.3. Orientation of the barrier
 - 1.3.1. Alignment of the vehicle to the barrier
- 1.4. State of vehicle

- 1.4.1. General specification
- 1.4.2. Mass of the vehicle
 - 1.4.2.1.
 - 1.4.2.2.
 - 1.4.2.3.
 - 1.4.2.4.
 - 1.4.2.5.
 - 1.4.2.6.
- 1.4.3. Passenger compartment adjustments
 - 1.4.3.1. Position of steering wheel
 - 1.4.3.2. Glazing
 - 1.4.3.3. Gear-change lever
 - 1.4.3.4. Pedals
 - 1.4.3.5. Doors
 - 1.4.3.6. Opening roof
 - 1.4.3.7. Sun-visor
 - 1.4.3.8. Rear-view mirror
 - 1.4.3.9. Arm-rests
 - 1.4.3.10 Head restraints
 - 1.4.3.11 Seats
 - 1.4.3.11.1.
 - 1.4.3.11.2.
 - 1.4.3.11.3.
- 2. DUMMIES
 - 2.1. Front seats
 - 2.1.1.
 - 2.1.2.
- 3. PROPULSION AND COURSE OF VEHICLE
 - 3.1.
 - 3.2.
 - 3.3.
- 4. TEST SPEED
- 5. MEASUREMENTS TO BE MADE ON DUMMY IN FRONT SEATS
 - 5.1.
 - 5.2.
 - 5.2.1. Measurements in the head of the dummy
 - 5.2.2. Measurements in the neck of the dummy
 - 5.2.2.1.
 - 5.2.2.2.
 - 5.2.3. Measurements in the thorax of the dummy
 - 5.2.4. Measurements in the femur and tibia of the dummy
 - 5.2.4.1.
 - 5.2.4.2.
- 6. MEASUREMENTS TO BE MADE ON THE VEHICLE
 - 6.1.
 - 6.2.

Appendix 2

DETERMINATION OF PERFORMANCE CRITERIA

1. HEAD PERFORMANCE CRITERION (HPC)
 - 1.1.
 - 1.2.
 - 1.2.1.
 - 1.2.2.
 - 1.2.3.
 - 1.2.4.
 - 1.3.
2. NECK INJURY CRITERIA (NIC)
 - 2.1.
 - 2.2.
 - 2.3.
3. THORAX COMPRESSION CRITERION (ThCC) AND VISCOUS CRITERION (V*C)
 - 3.1.
 - 3.2.
4. FEMUR FORCE CRITERION (FFC)
 - 4.1.
5. TIBIA COMPRESSIVE FORCE CRITERION (TCFC) AND TIBIA INDEX (TI)
 - 5.1.
 - 5.2.
6. PROCEDURE FOR CALCULATING THE VISCOUS CRITERION (V*C) FOR HYBRID III..
 - 6.1.
 - 6.2.

Appendix 3

ARRANGEMENT AND INSTALLATION OF DUMMIES AND ADJUSTMENT OF RESTRAINT SYSTEMS

1. ARRANGEMENT OF DUMMIES
 - 1.1. Separate seats
 - 1.2. Front bench seat
 - 1.2.1. Driver
 - 1.2.2. Outer passenger
 - 1.3. Bench seat for front passengers (not including driver)
2. INSTALLATION OF DUMMIES
 - 2.1. Head
 - 2.2. Arms
 - 2.2.1.
 - 2.2.2.
 - 2.3. Hands

- 2.3.1.
 - 2.3.2.
 - 2.4. Torso
 - 2.4.1.
 - 2.4.2.
 - 2.4.3. Lower torso
 - 2.4.3.1. 'H' point
 - 2.4.3.2. Pelvic angle
 - 2.5. Legs
 - 2.5.1.
 - 2.5.2.
 - 2.6. Feet
 - 2.6.1.
 - 2.6.2.
 - 2.7.
 - 2.8.
 - 2.9. Dummy clothing
 - 2.9.1.
 - 2.9.2.
3. ADJUSTMENT OF RESTRAINT SYSTEM

Appendix 4

TEST PROCEDURE WITH TROLLEY

- 1. TEST INSTALLATION AND PROCEDURE
 - 1.1. Trolley
 - 1.2. State of the structure
 - 1.2.1. General
 - 1.2.2. Adjustments
 - 1.3. Attachment of the structure
 - 1.3.1.
 - 1.3.2.
 - 1.3.3.
 - 1.3.4.
 - 1.4. Dummies
 - 1.5. Measuring apparatus
 - 1.5.1. Deceleration of the structure
 - 1.5.2. Measurements to be made on the dummies
 - 1.6. Deceleration curve of the structure
 - 1.7. Reference curve $\Delta V = f(t)$ of the vehicle concerned
 - 1.8. Equivalent method

Appendix 5

TECHNIQUE OF MEASUREMENT IN MEASUREMENT TESTS: INSTRUMENTATION

- 1. DEFINITIONS
 - 1.1. Data channel
 - 1.2. Transducer
 - 1.3. Channel amplitude class: CAC

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

- 1.4. Characteristic frequencies FH, FL, FN
- 1.5. Channel frequency class: CFC
- 1.6. Sensitivity coefficient
- 1.7. Calibration factor of a data channel
- 1.8. Linearity error
- 1.9. Cross sensitivity
- 1.10. Phase delay time
- 1.11. Environment

- 2. PERFORMANCE REQUIREMENTS
 - 2.1. Linearity error
 - 2.2. Amplitude against frequency
 - 2.3. Phase delay time
 - 2.4. Time base
 - 2.4.1.
 - 2.4.2. Relative time delay
 - 2.5. Transducer cross sensitivity
 - 2.6. Calibration
 - 2.6.1. General
 - 2.6.2. Accuracy of reference equipment for calibration
 - 2.6.2.1. Static calibration
 - 2.6.2.1.1.
 - 2.6.2.1.2.
 - 2.6.2.1.3.
 - 2.6.2.2. Dynamic calibration
 - 2.6.2.2.1.
 - 2.6.2.3. Time
 - 2.6.3. Sensitivity coefficient and linearity error
 - 2.6.4. Calibration of the frequency response
 - 2.7. Environmental effects
 - 2.8. Choice and designation of the data channel

- 3. MOUNTING OF TRANSDUCERS

- 4. RECORDING
 - 4.1. Analogue magnetic recorder
 - 4.2. Digital magnetic recorder
 - 4.3. Paper tape recorder

- 5. DATA PROCESSING
 - 5.1. Filtering
 - 5.2. Digitalizing
 - 5.2.1.
 - 5.2.2. Amplitude resolution

- 6. PRESENTATION OF RESULTS

Appendix 6

DEFINITION OF THE DEFORMABLE BARRIER

- 1. COMPONENT AND MATERIAL SPECIFICATIONS

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- 2. ALUMINIUM HONEYCOMB CERTIFICATION
 - 2.1. Sample locations
 - 2.2. Sample size
 - 2.3. Area measurement
 - 2.4. Crush rate and distance
 - 2.5. Data collection
 - 2.6. Crush strength determination
 - 2.7. Sample crush strength specification
 - 2.8. Block crush strength specification

- 3. ADHESIVE BONDING PROCEDURE
 - 3.1.
 - 3.2.

- 4. CONSTRUCTION
 - 4.1.
 - 4.2.
 - 4.3.
 - 4.4.

- 5. MOUNTING
 - 5.1.
 - 5.2.
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 -
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Appendix 7

CERTIFICATION PROCEDURE FOR THE DUMMY LOWER LEG AND FOOT

- 1. UPPER FOOT IMPACT TEST
 - 1.1.
 - 1.2.
 - 1.3. Test procedure
 - 1.3.1.
 - 1.3.2.
 - 1.3.3.
 - 1.3.4.
 - 1.3.5.
 - 1.3.6.
 - 1.3.7.
 - 1.4. Performance specification
 - 1.4.1.

- 2. LOWER FOOT IMPACT TEST WITHOUT SHOE
 - 2.1.
 - 2.2.

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- 2.3. Test procedure
 - 2.3.1.
 - 2.3.2.
 - 2.3.3.
 - 2.3.4.
 - 2.3.5.
 - 2.3.6.
 - 2.3.7.
- 2.4. Performance specification
 - 2.4.1.
- 3. LOWER FOOT IMPACT TEST (WITH SHOE)
 - 3.1.
 - 3.2.
 - 3.3. Test procedure
 - 3.3.1.
 - 3.3.2.
 - 3.3.3.
 - 3.3.4.
 - 3.3.5.
 - 3.3.6.
 - 3.3.7.
 - 3.4. Performance specification
 - 3.4.1.

Figure 1 Upper foot impact test Test set-up specifications Figure 2 Lower...Test set-up specifications Figure 2 Lower foot impact test (without...

Figure 2 Lower foot impact test (without shoe) Test set-up specifications Figure...Test set-up specifications Figure 3 Lower foot impact test (with...

Figure 3 Lower foot impact test (with shoe) Test set-up specifications Figure...Test set-up specifications Figure 4 Pendulum impactor Repealed by Regulation...

Figure 4Pendulum impactor