

Council directive 92/23/EEC of 31 March 1992 relating to tyres
for motor vehicles and their trailers and to their fitting (repealed)

Article 1	For the purposes of this Directive: ‘ tyre ’ means...
Article 1a	(1) The requirements set out in Annex V shall apply...
Article 2	(1) Member States shall grant EC type-approval, under the conditions...
Article 3	The approval authority of a Member State shall, within one...
Article 4	No Member State may prohibit or restrict the placing on...
Article 5	No Member State may refuse to grant EC type-approval or...
Article 6	No Member State may refuse or prohibit the sale, registration,...
Article 7	(1) If, on the basis of a substantiated justification, a...
Article 8	(1) The Member State which has granted the EC type-approval...
Article 9	Any decision taken pursuant to the provisions adopted in implementation...
Article 10	Any amendments necessary to adapt the requirements of the Annexes...
Article 10a	(1) As from 4 February 2003 , Member States may...
Article 11	(1) Member States shall adopt and publish the provisions necessary...
Article 12	This Directive is addressed to the Member States.

ANNEX I

ADMINISTRATIVE PROVISIONS FOR THE EC TYPE-APPROVAL OF TYRES

1. APPLICATION FOR THE EC TYPE-APPROVAL OF A TYPE OF TYRE...
 - 1.1. The application for EC type-approval for a type of tyre...
 - 1.1.1. The application for EC type-approval pursuant to Annex II is...
 - 1.1.1.1. The application must be accompanied (all in triplicate) by a...
 - 1.1.1.2. It must be accompanied either by the test report issued...
 - 1.1.2. The application for EC type-approval pursuant to Annex V is...
 - 1.1.2.1. The application must be accompanied (all in triplicate) by sketches,...
 - 1.1.2.2. It must also be accompanied either by the test report...
 - 1.2. The manufacturer may apply for EC type-approval to be extended...
 - 1.3. The approval authority may accept the laboratories of the tyre...
2. INSCRIPTIONS
 - 2.1. Samples of a type of tyre submitted for EC type-approval...
3. EC TYPE-APPROVAL
 - 3.1. EC type-approval pursuant to Article 4 of Directive 70/156/EEC is...
 - 3.1.1. Notice of approval or extension or refusal or withdrawal of...
 - 3.1.2. EC type-approval pursuant to Article 4 of Directive 70/156/EEC is...
 - 3.2.1. Notice of approval or extension or refusal or withdrawal of...
 - 3.3. An EC type-approval number is to be assigned to each...

4. EC TYPE-APPROVAL MARKING
 - 4.1. Any tyre conforming to a type in respect of which...
 - 4.2. The EC type-approval mark will consist of a rectangle surrounding...
 - 4.2.1. The rectangle forming the EC type-approval mark must have a...
 - 4.3. The EC type-approval marks and numbers, and any additional marks...
 - 4.4. Approval numbers assigned pursuant to Annex V must be followed...
 - 4.5. An example of the EC type-approval mark is given below:....

Note:

5. MODIFICATION OF A TYRE TYPE
 - 5.1. If a tyre type-approved pursuant to Annex II or pursuant...
 - 5.2. If the tread pattern of a tyre has been modified...
 - 5.3. In the case where tyre-size designations or trade marks are...
 - 5.4. In the case of modification of the tyre tread pattern...

6. CONFORMITY OF PRODUCTION
 - 6.1. The general rules to ensure the conformity of production shall...
 - 6.2. In particular, when checks are carried out in accordance with...

Appendix 1

INFORMATION DOCUMENT No ... RELATING TO EC TYPE-APPROVAL FOR A TYPE OF TYRE

Appendix 2

EC TYPE-APPROVAL CERTIFICATE

Appendix 3

Appendix 4

ANNEX II

REQUIREMENTS FOR TYRES

1. DEFINITIONS

2. For the purposes of this Directive:
 - 2.1. 'type of tyre' means a category of tyres which do...
 - 2.1.1. manufacturer's name or trade mark;
 - 2.1.2. tyre-size designation;
 - 2.1.3. category of use;
 - 2.1.4. structure (diagonal (bias-ply), bias-belted, radial-ply);
 - 2.1.5. speed category;

- 2.1.6. load capacity index;
- 2.1.7. tyre cross-section;
- 2.2. 'snow tyre' means a tyre the tread pattern and structure...
- 2.3. 'structure' of a tyre means the technical characteristics of the...
 - 2.3.1. 'diagonal' or 'bias-ply' describes a tyre structure in which the...
 - 2.3.2. 'bias-belted' describes a tyre structure of diagonal (bias-ply) type in...
 - 2.3.3. 'radial' describes a tyre structure in which the ply cords...
 - 2.3.4. 'reinforce' describes a tyre structure in which the carcass is...
 - 2.3.5. 'temporary-use spare tyre' means a tyre different from a tyre...
 - 2.3.6. 'T-type temporary-use spare tyre' means a type of temporary-use spare...
- 2.4. 'bead' means the part of a tyre which is of...
- 2.5. 'cord' means the strands forming the fabric of the plies...
- 2.6. 'ply' means a layer of rubber-coated parallel cords;
- 2.7. 'carcass' means that part of a tyre other than the...
- 2.8. 'tread' means that part of a tyre which comes into...
- 2.9. 'sidewall' means the part of the tyre, excluding the tread,...
- 2.10. 'lower sidewall' means the area below the line of maximum...
- 2.11. 'tread groove' means the space between the adjacent ribs or...
- 2.12. 'section width' means the linear distance between the outsides of...
- 2.13. 'overall width' means the linear distance between the outsides of...
- 2.14. 'section height' means a distance equal to half the difference...
- 2.15. 'nominal aspect ratio Ra' means one hundred times the number...
- 2.16. 'outer diameter' means the overall diameter of an inflated new...
- 2.17. 'tyre-size designation':
 - 2.17.1. means a designation showing:
 - 2.17.1.1 the nominal section width. This width must be expressed in...
 - 2.17.1.2 the nominal aspect ratio, except in the case of tyres...
 - 2.17.1.3 a conventional number 'd' (the 'd' symbol) denoting the nominal...
 - 2.17.1.4 the letter 'T' in front of the nominal section width...
- 2.18. 'nominal rim diameter (d)' means the diameter of the rim...
- 2.19. 'rim' means the support for a tyre-and-tube assembly, or for...
- 2.20. 'theoretical rim' means the notional rim whose width would be...
- 2.21. 'measuring rim' means the rim on which a tyre must...
- 2.22. 'test rim' means the rim on which a tyre must...
- 2.23. 'chunking' means the breaking away of pieces of rubber from...
- 2.24. 'cord separation' means the parting of the cords from their...
- 2.25. 'ply separation' means the parting of adjacent plies;
- 2.26. 'tread separation' means the pulling away of the tread from...
- 2.27. 'tread-wear indicators' mean projections within the tread-grooves designed to give...
- 2.28. 'load-capacity index' means one or two numbers which indicate the...
 - 2.28.1. on passenger car tyres there must be one load index...
 - 2.28.2. on commercial vehicle tyres there may be one or two...
 - 2.28.3. a type of tyre may have either one or two...
- 2.29. 'speed category', expressed by the speed category symbol as shown...
 - 2.29.1. in the case of a passenger car tyre, the maximum...
 - 2.29.2. in the case of a commercial vehicle tyre, the speed...
 - 2.29.3. The speed categories are as shown in the table below:...
 - 2.29.4. tyres suitable for maximum speeds higher than 240 km/h are identified...
 - 2.29.5. a type of tyre may have either one or two...

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- 2.30. 'table: Variation of load capacity with speed' means: the table,...
 - 2.30.1. the load variations do not apply in the case of...
- 2.31. 'maximum load rating' means the maximum mass the tyre is...
 - 2.31.1. in the case of passenger car tyres suitable for speeds...
 - 2.31.2. in the case of passenger car tyres suitable for speeds...
 - 2.31.3. for speeds exceeding 240 km/h ('Z tyres') the maximum load rating...
 - 2.31.4. in the case of commercial vehicle tyres, the maximum load...
- 2.32. 'passenger car tyre' means a tyre designed primarily, but not...
- 2.33. 'commercial vehicle tyre' means a tyre designed primarily, but not...
- 2.34. 'tyre ground pressure (F/Ac)' means the average until load transmitted...
- 2.35. 'tyre contact area (Ac)' means the area of the flat...
- 2.36. 'virtual perimeter of the tyre footprint' means the convex polygonal...
- 2.37. 'cold inflation pressure' means the internal pressure of the tyre...

3. MARKING REQUIREMENTS

- 3.1. Tyres must bear:
 - 3.1.1. the manufacturer's name or trade mark;
 - 3.1.2. the tyre-size designation as defined in section 2.17;
 - 3.1.3. an indication of the structure as follows:
 - 3.1.3.1. on diagonal (bias-ply) tyres, no making or the letter 'D';...
 - 3.1.3.2. on radial-ply tyres, the letter 'R' placed in front of...
 - 3.1.3.3. on bias-belted tyres, the letter 'B' placed in front of...
 - 3.1.4. an indication of the tyre's speed category by means of...
 - 3.1.5. the inscription 'M + S' (for alternatively 'M.S.' or 'M...)
 - 3.1.6. the load-capacity index as defined in section 2.28;
 - 3.1.6.1. however, in the case of tyres suitable for speeds higher...
 - 3.1.7. the word 'TUBELESS' if the tyre is designed for use...
 - 3.1.8. the word 'REINFORCED' if the tyre is a reinforced tyre;...
 - 3.1.9. the date of manufacture in the form of a group...
 - 3.1.10. in the case of commercial vehicle tyres which can be...
 - 3.1.11. in the case of commercial vehicles tyres, an indication, by...
 - 3.1.12. the additional load capacity index/indices and the speed category symbol...
- 3.2. Appendix 3 gives examples of the arrangement of tyre markings....
- 3.3. The tyre must also bear the EC type-approval mark, the...

POSITION OF MARKINGS

 - 3.4. The markings referred to in section 3.1 and 3.3 must...
 - 3.4.1. in the case of symmetrical tyres, all the markings referred...
 - 3.4.2. in the case of asymmetrical tyres all the markings must...

(4.)

(5.)

(6.) 6.1. Dimensional requirements 6.1.1. Section width of a tyre 6.1.1.1....

- 6.1. Dimensional requirements
 - 6.1.1. Section width of a tyre
 - 6.1.1.1. Except as provided by section 6.1.1.2, the section width is...
 - 6.1.1.2. However, for the types of tyre for which the size...
 - 6.1.2. Outer diameter of a tyre
 - 6.1.2.1. Except as provided by section 6.1.2.2, the outer diameter of...
 - 6.1.2.2. However, for the types of tyres for which the size...
 - 6.1.3. Method of measuring tyre dimensions

- 6.1.4. Tyre section width: specification of tolerance
 - 6.1.4.1. The overall width of a tyre may be less than...
 - 6.1.4.2. It may not exceed that value by more than the...
 - 6.1.4.2.1. diagonal (bias-ply) tyres: 6 % for passenger car tyres, 8 % for...
 - 6.1.4.2.2. radial-ply tyres: 4 %; and
 - 6.1.4.2.3. In addition, if the tyre has a special protective band,...
 - 6.1.4.2.4. However, for tyres of a section width exceeding 305 mm intended...
- 6.1.5. Tyre outer diameter: specification of tolerance
 - 6.1.5.1. for sizes listed in Appendix 5:
 - 6.1.5.2. for other sizes not listed in Appendix 5:
 - 6.1.5.3. coefficients 'a' and 'b' are respectively:
 - 6.1.5.3.1. coefficient 'a' = 0,97;
 - 6.1.5.3.2. coefficient 'b' for normal, special, snow or temporary-use spare tyres...
 - 6.1.5.4. For snow tyres the outer diameter (Dmax) established in conformity...
- 6.2. Load/speed test requirement
 - 6.2.1. The tyre must undergo a load/speed test carried out in...
 - 6.2.2. A tyre which, after undergoing the relevant load/speed test, does...
 - 6.2.3. The outer diameter of the tyre, measured six hours after...
 - 6.2.4. Where application is made for the approval of a type...
 - 6.2.5. Where application (see section 6.13 of Annex 1, Appendix 1)...
 - 6.2.6. Where a tyre manufacturer produces a range of tyres it...
- 6.3. Tread-wear indicators
 - 6.3.1. In the case of passenger car tyres the tread of...
 - 6.3.2. However, in the case of tyres of dimensions appropriate for...
 - 6.3.3. The tread-wear indicators must give visual warning when the depth...

Appendix 1

Explanatory figure

Appendix 2

LIST OF SYMBOLS OF LOAD-CAPACITY INDICES (LI) AND
CORRESPONDING MAXIMUM MASS TO BE CARRIED (GK)

LI Maximum 0 45 1 46,2 2 47,5 3 48,7...

Appendix 3

ARRANGEMENT OF TYRE MARKINGS

PART A: PASSENGER CAR TYRES

PART B: COMMERCIAL VEHICLE TYRES

Appendix 4

RELATIONSHIP BETWEEN THE PRESSURE INDEX AND THE UNITS OF PRESSURE

Pressure Index('PSI') bar kPa 20 1.4 140 25 1.7 170...

Appendix 5

MEASURING RIM, OUTER DIAMETER AND SECTION WIDTH OF TYRES OF CERTAIN SIZE DESIGNATIONS

PART A: PASSENGER CAR TYRES

PART B: COMMERCIAL VEHICLE TYRES

Appendix 6

METHOD OF MEASURING TYRE DIMENSIONS

PART A: PASSENGER CAR TYRES

- 1.1. The tyre is mounted on the measuring rim specified by...
- 1.2. The pressure in the tyre is then adjusted as follows:...
 - 1.2.1. in standard bias — belted tyres to 1,7 bar;
 - 1.2.2. in diagonal (bias-ply) tyres to the pressure shown below (bar):...
 - 1.2.3. in standard radial tyres to 1,8 bar,
 - 1.2.4. in reinforced tyres to 2,3 bar, and
 - 1.2.5. in T-type temporary-use spare tyres: to 4,2 bar.
2. The tyre, mounted on its rim, is conditioned at the...
3. The pressure is readjusted to that specified in section 1.2....
4. The overall width is measured by caliper at six equally-spaced...
5. The outer diameter is determined by measuring the maximum circumference...

PART B: COMMERCIAL VEHICLE TYRES

1. The tyre is mounted on the measuring rim specified by...
2. The tyre fitted on its rim is conditioned to the...
3. The pressure is readjusted to the value specified in section...
4. The overall width is measured by caliper at six equally-spaced...
5. The outer diameter is determined by measuring the maximum circumference...

Appendix 7

LOAD/SPEED TEST-PROCEDURE

PART A: PASSENGER CAR TYRES

1. Preparing the tyre
 - 1.1. A new tyre is mounted on the test rim specified...
 - 1.2. It is inflated to the appropriate pressure as given in...
 - 1.3. The manufacturer may request, giving reasons, the use of an...
 - 1.4. The tyre-and-wheel assembly is conditioned at test-room temperature for not...
 - 1.5. The tyre pressure is readjusted to that specified in section...
2. Carrying out the test
 - 2.1. The tyre-and-wheel assembly is mounted on a test axle and...
 - 2.2. Apply to the test axle a load equal to 80 %...
 - 2.2.1. the maximum load rating equated to the load capacity index...
 - 2.2.2. the maximum load rating associated with a maximum speed of...
 - 2.3. Throughout the test the tyre pressure must not be corrected...
 - 2.4. During the test the temperature in the test-room must be...
 - 2.5. The test is carried out without interruption in conformity with...
 - 2.5.1. time taken to pass from zero speed to initial test...
 - 2.5.2. initial test speed: prescribed maximum speed for the type of...
 - 2.5.3. successive speed increments: 10 km/h;
 - 2.5.4. duration of test at each speed step except the last:...
 - 2.5.5. duration of test at last speed step: 20 minutes;
 - 2.5.6. maximum test speed: prescribed maximum speed for the type of...
3. Equivalent test methods

PART B: COMMERCIAL VEHICLE TYRES

1. Preparing the tyre
 - 1.1. Mount a new tyre on the test rim specified by...
 - 1.2. Use a new inner tube or combination of inner tube,...
 - 1.3. Inflate the tyre to the pressure corresponding to the pressure...
 - 1.4. Condition the tyre and wheel assembly at test room temperature...
 - 1.5. Readjust the tyre pressure to that specified in section 1.3....

2. Test procedure
 - 2.1. Mount the tyre and wheel assembly on the test axle...
 - 2.2. Apply to test axle a series of test loads expressed...
 - 2.3. The tyre pressure must not be corrected throughout the test...
 - 2.4. During the test the temperature in the test room must...
 - 2.5. The load/speed test programme must be carried out without interruption....
3. Equivalent test methods

Appendix 8

VARIATION OF LOAD CAPACITY WITH SPEED

ANNEX III

ADMINISTRATIVE PROVISIONS FOR THE TYPE-APPROVAL OF VEHICLES WITH REGARD TO THE FITTING OF THEIR TYRES

1. APPLICATION FOR THE EC TYPE-APPROVAL OF A VEHICLE TYPE
 - 1.1. The application for EC type-approval of a vehicle type with...
 - 1.2. It is accompanied, in triplicate, by a description of the...
 - 1.3. A vehicle representative of the vehicle type to be approved...
 - 1.4. The vehicle manufacturer or his representative may apply for the...
2. EC TYPE-APPROVAL OF A VEHICLE
 - 2.1. EC type-approval is granted and an EC type-approval number issued...
 - 2.2. Notice of approval or of extension or of refusal of...
 - 2.3. An approval number is assigned to each vehicle type approved....
3. MODIFICATION OF VEHICLE TYPE
 - 3.1. Every modification of a vehicle type must be notified to...
 - 3.1.1. consider that the modifications made are unlikely to have an...
 - 3.1.2. refuse to approve the modification.
 - 3.2. Confirmation or refusal of approval, specifying the alterations, is communicated...
4. CONFORMITY OF PRODUCTION
 - 4.1. Every production vehicle to which this Directive applies must be...
 - 4.2. In order to verify that the requirements of section 4.1...
 - 4.3. The holder of the approval must in particular ensure the...
 - 4.4. The approval authority which has granted type-approval may at any...
 - 4.4.1. In every inspection, the test books and productions survey records...
 - 4.5. The normal frequency of inspections authorized by the approval authority...
5. PRODUCTION DEFINITELY DISCONTINUED

Appendix 1
INFORMATION DOCUMENT No...

Appendix 2
MODEL

ANNEX IV
REQUIREMENTS FOR VEHICLES WITH
REGARD TO THE FITTING OF THEIR TYRES

1. DEFINITIONS
2. For the purpose of this Directive:
 - 2.1. 'approval of a vehicle' means the approval of a vehicle...
 - 2.2. 'vehicle type' means a range of vehicles which do not...
 - 2.3. 'wheel' means a complete wheel consisting of a rim and...
 - 2.4. 'temporary-use spare wheel' means a wheel different from one of...
 - 2.5. 'unit' means an assembly of a wheel and tyre;
 - 2.6. 'normal unit' means a unit which is capable of being...
 - 2.7. 'spare unit' means a unit which is intended to be...
 - 2.7.0. 'normal spare unit', which is a unit that conforms to...
 - 2.7.1. 'temporary-use spare unit', which is a unit that differs from...
 - 2.7.1.1. category 1
 - 2.7.1.2. category 2
 - 2.7.1.3. category 3
 - 2.7.1.4. category 4
 - 2.8. 'maximum mass' means the maximum value stated by the vehicle...
 - 2.9. 'maximum axle load' means the maximum value stated by the...
 - 2.10. 'functional dimensions' means dimensions derived from the size designation of...
 - 2.11. 'maximum design speed' means the maximum speed approved for the...
3. REQUIREMENTS FOR VEHICLES WITH REGARD TO THE FITTING OF THEIR...
 - 3.1. General
 - 3.1.1. Subject to the provisions of section 3.7.4., every tyre fitted...
 - 3.2. Tyre fitment
 - 3.2.1. All of the tyres fitted to a vehicle, excluding any...
 - 3.2.2. All of the tyres fitted to one axle must be...
 - 3.2.3. The space in which the wheel revolves must be such...
 - 3.3. Load capacity
 - 3.3.1. Subject to the provisions of section 3.7, the maximum load...
 - 3.3.1.1. in the case of a vehicle fitted with tyres of...
 - 3.3.1.2. in the case of a vehicle fitted with tyres of...
 - 3.3.1.3. in the case of a vehicle fitted with passenger car...
 - 3.3.1.4. in the case of axles fitted with commercial vehicle tyres...

- 3.4. Speed capacity
 - 3.4.1. Every tyre with which a vehicle is normally fitted must...
 - 3.4.2. The above specification does not apply:
 - 3.4.2.1. in the case of temporary use spare units for which...
 - 3.4.2.2. in the case of vehicles normally equipped with ordinary tyres...
- 3.5. Spare tyre
 - 3.5.1. In the case where a vehicle is provided with a...
 - 3.5.1.1. the same type as one of the tyres fitted to...
 - 3.5.1.2. a temporary-use spare tyre of a type suitable for use...
 - 3.5.2. Every vehicle provided with a temporary-use spare unit must be...
 - 3.5.2.1. an instruction to drive with caution when the temporary-use spare...
 - 3.5.2.2. a statement that operation of the vehicle is not permitted...
 - 3.5.2.3. a clear indication of the inflation pressure specified by the...
 - 3.5.2.4. for vehicles equipped with category 3 or category 4 temporary-use spare...
- 3.6. Inflating device of temporary-use spare unit:
 - 3.6.1. if the vehicle is equipped with a category 3 or...
- 3.7. Special cases
 - 3.7.1. In the case of trailers of categories 01 and 02...
 - 3.7.2. In the case of some special vehicles fitted with commercial...
 - 3.7.2.1. 1,10 in the case of vehicles of category M3 when...
 - 3.7.2.2. 1,15 in the case of such vehicles (M3) if they...
 - 3.7.2.3. 1,10 in the case of public utility vehicles of category...
 - 3.7.3. When a motor vehicle of category M1 is towing a...
 - 3.7.4. In the case of a vehicle which is fitted with...
- 3.8. Specifications for temporary-use spare units
 - 3.8.1. Every temporary-use spare tyre must have a speed category at...
 - 3.8.2. When fitted to the vehicle for temporary use the outward...
 - 3.8.3. A maximum speed warning symbol must be permanently displayed on...

ANNEX V

TYRE/ROAD NOISE EMISSION

- 1. SCOPE
- 2. DEFINITIONS
- 3. MARKING REQUIREMENTS
 - 3.1. In addition to other marking requirements given in section 4...
- 4. TYRE/ROAD NOISE EMISSION REQUIREMENTS
 - 4.1. General requirements
 - 4.2. The noise levels determined in accordance with section 4.5 of...

Appendix 1

TEST METHOD FOR TYRE-ROAD SOUND LEVELS COAST-BY METHOD

- 0. Introduction

1. Measuring instruments
 - 1.1. Acoustic measurements
 - 1.1.1. Calibration
 - 1.1.2. Compliance with requirements
 - 1.1.3. Positioning of the microphone
 - 1.2. Speed measurements
 - 1.3. Temperature measurements
 - 1.3.1. Air temperature
 - 1.3.2. Test surface temperature
 - 1.4. Wind measurement
2. Conditions of measurement
 - 2.1. Test site
 - 2.2. Meteorological conditions
 - 2.3. Ambient noise
 - 2.4. Test vehicle requirements
 - 2.4.1. General
 - 2.4.2. Vehicle load
 - 2.4.3. Wheelbase
 - 2.4.4. Measures to minimise vehicle influence on sound level measurements
 - 2.5. Tyres
 - 2.5.1. General
 - 2.5.2. Tyre loads
 - 2.5.3. Tyre inflation pressure
 - 2.5.4. Preparations prior to testing
3. Method of testing
 - 3.1. General conditions
 - 3.2. Nature and number of measurements
 - 3.3. Test speeds
4. Interpretation of results
 - 4.1. Determination of test result
 - 4.2. Regression analysis of noise measurements
 - 4.3. Temperature correction
 - 4.4. In order to take account of any measuring instrument inaccuracies,...
 - 4.5. The final result, the temperature corrected tyre-road noise level L...

Appendix 2

TEST REPORT

The test report shall include the following information:
meteorological conditions inclusive of air and test surface
temperature for...

ANNEX VI

SPECIFICATIONS FOR THE TEST SITE

1. Introduction

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2. Required characteristics of the surface
 - 2.1. Residual voids content
 - 2.2. Sound absorption coefficient
 - Note:
 - 2.3. Texture depth
 - 2.4. Homogeneity of the surface
 - 2.5. Period of testing
3. Test surface design
 - 3.1. Area
 - 3.2. Design and preparation of the surface
 - 3.2.1. Basic design requirements
 - 3.2.2. Design guidelines
4. Test method
 - 4.1. Measurement of the residual voids content
 - 4.2. Sound absorption coefficient
 - 4.3. Volumetric macrotexture measurement
5. Stability in time and maintenance
 - 5.1. Age influence
 - 5.2. Maintenance of the surface
 - 5.3. Repaving the test area
6. Documentation of the test surface and of tests performed on...
 - 6.1. Documentation of the test surface
 - 6.2. Documentation of vehicle noise tests conducted on the surface

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- (1) OJ No C 95, 12. 4. 1990, p. 101.
- (2) OJ No C 284, 12. 11. 1990, p. 81 and Decision of 12. 2. 1992 (not yet published in the Official Journal).
- (3) OJ No C 225, 10. 9. 1990, p. 9.
- (4) OJ No L 42, 23. 2. 1970, p. 1.
- (5) OJ No L 220, 8. 8. 1987, p. 44.
- (6) Economic Commission for Europe document E/ECE/324 (E3/ECE/TRANS/505) REV 1 — ADD 29, 1. 4. 1975 and its amendments 01, 02 and supplements.
- (7) Economic Commission for Europe document E/ECE/324 (E/ECE/TRANS/505) REV 1 — ADD 53 and supplements.
- (8) Economic Commission for Europe document E/ECE/324 (E/ECE/TRANS/505) REV 1 — ADD 63 and supplements.