

Bituminous mixtures - Material specifications - Part 7: Porous Asphalt

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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English Version

Bituminous mixtures - Material specifications - Part 7: Porous Asphalt

Mélanges bitumineux - Spécifications pour le matériau - Partie 7: Bétons bitumineux drainants

Asphaltmischgut - Mischgutanforderungen - Teil 7: Offenporiger Asphalt

This European Standard was approved by CEN on 27 February 2016.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 13108-7:2016) has been prepared by Technical Committee CEN/TC 227 "Road materials", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2016, and conflicting national standards shall be withdrawn at the latest by March 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13108-7:2006.

This European standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of Regulation (EU) No 305/2011 for construction products (CPR).

For relationship with Regulation (EU) No 305/2011 see informative Annex ZA which is an integral part of this European standard.

Compared with EN 13108-7:2006, the following changes have been made:

- a) new properties introduced (resistance to deformation, low temperature properties, friction after polishing);
- b) additional optional sieves for the characterization of the grading;
- c) for several properties additional categories are introduced;
- d) possibility to define specific conditions in documents related to the application of the product;
- e) CPR reference and new Annex ZA according to CPR rules.

This European Standard is one of a series as listed below:

- EN 13108-1, Bituminous mixtures Material specifications Part 1: Asphalt Concrete
- EN 13108-2, Bituminous mixtures Material specifications Part 2: Asphalt Concrete for Very Thin Layers (BBTM)
- EN 13108-3, Bituminous mixtures Material specifications Part 3: Soft Asphalt
- EN 13108-4, Bituminous mixtures Material specifications Part 4: Hot Rolled Asphalt
- EN 13108-5, Bituminous mixtures Material specifications Part 5: Stone Mastic Asphalt
- EN 13108-6, Bituminous mixtures Material specifications Part 6: Mastic Asphalt
- EN 13108-7, Bituminous mixtures Material specifications Part 7: Porous Asphalt
- EN 13108-8, Bituminous mixtures Material specifications Part 8: Reclaimed Asphalt

- EN 13108-9, Bituminous mixtures Material specifications Part 9: Asphalt for Ultra-Thin Layer (AUTL)
- EN 13108-20, Bituminous mixtures Material specifications Part 20: Type Testing
- EN 13108-21, Bituminous mixtures Material specifications Part 21: Factory Production Control

Annex A (normative) details the calculation of the penetration or the softening point in mixtures containing reclaimed asphalt from the penetrations or softening points of the added binder and the recovered binder from the reclaimed asphalt.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

The aim of this European Standard is to enable specification of Porous Asphalt mixtures on a performance basis. In general, however, there are currently more empirical tests available to describe the mixtures. Depending on the experience with the combination of requirements in this European standard more or less degrees of freedom for the producer may be given.

This European Standard covers a large variety of materials for different applications, traffic and climate conditions. EN 13108-7 gives properties and listings of possible categories. It has to accommodate the road industry for all of Europe. For this reason the menu approach for properties has been chosen. The tables represent categories that are required all over Europe. For this reason numerical values in Tables do not always obey statistical rules. Based on conditions of use specific properties and categories may be defined in documents related to the application of the product. The categories defined in those documents need to take into account the reproducibility of the test when this is given in the appropriate test method.

Care should be taken to only select those tests which are relevant to the application of the asphalt and the use of the pavement and to avoid a combination of potentially conflicting requirements.

1 Scope

This European Standard specifies requirements for mixtures of the mix group Porous Asphalt for use on roads, airfields and other trafficked areas. Porous Asphalt is used for surface courses. Porous Asphalt can be laid in more than one layer.

The mixtures of the mix group Porous Asphalt are produced on the basis of hot bitumen. Mixtures utilizing bitumen emulsion and bituminous materials based on *in situ* recycling are not covered by this standard.

This European Standard includes requirements for the selection of the constituent materials. It is designed to be read in conjunction with EN 13108-20 and EN 13108-21.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1097-6:2013, Tests for mechanical and physical properties of aggregates — Part 6: Determination of particle density and water absorption

EN 1426, Bitumen and bituminous binders — Determination of needle penetration

EN 1427, Bitumen and bituminous binders — Determination of the softening point — Ring and Ball method

EN 12591, Bitumen and bituminous binders — Specifications for paving grade bitumens

EN 12697 (all parts), *Bituminous mixtures* — *Test methods for hot mix asphalt*

EN 13043, Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas

EN 13108-4:2016, Bituminous mixtures — Material specifications — Part 4: Hot Rolled Asphalt

EN 13108-8, Bituminous mixtures — Material specifications — Part 8: Reclaimed asphalt

EN 13108-20:2016, Bituminous mixtures — Material specifications — Part 20: Type Testing

EN 13108-21, Bituminous mixtures — Material specifications — Part 21: Factory Production Control

EN 13501-1:2007+A1:2009, Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests

EN 13924-1, Bitumen and bituminous binders — Specification framework for special paving grade bitumen — Part 1: Hard paving grade bitumens

EN 13924-2, Bitumen and bituminous binders — Specification framework for special paving grade bitumen — Part 2: Multigrade paving grade bitumens

EN 14023, Bitumen and bituminous binders — Specification framework for polymer modified bitumens

EN ISO 11925-2, Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test (ISO 11925-2)

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