

Asfaltsegud. Materjali spetsifikatsioon. Osa 2: Väga õhukeste kihtide asfaltbetoon

Bituminous mixtures - Material specifications - Part 2:
Asphalt Concrete for very thin layers

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13108-2:2007 sisaldab Euroopa standardi EN 13108-2:2006+AC:2008 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 29.06.2006 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 10.05.2006.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 13108-2:2007 consists of the English text of the European standard EN 13108-2:2006+AC:2008.

This standard is ratified with the order of Estonian Centre for Standardisation dated 29.06.2006 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 10.05.2006.

The standard is available from Estonian standardisation organisation.

ICS 93.080.20

Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

Right to reproduce and distribute Estonian Standards belongs to the Estonian Centre for Standardisation

No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without permission in writing from Estonian Centre for Standardisation.

If you have any questions about standards copyright, please contact Estonian Centre for Standardisation:
Aru str 10 Tallinn 10317 Estonia; www.evs.ee; Phone: +372 605 5050; E-mail: info@evs.ee

ICS 93.080.20

English Version

Bituminous mixtures - Material specifications - Part 2: Asphalt Concrete for very thin layers

Mélanges bitumineux - Spécifications des matériaux -
Partie 2: Bétons bitumineux très minces

Asphaltmischgut - Mischgutanforderungen - Teil 2:
Asphaltbeton für sehr dünne Schichten

This European Standard was approved by CEN on 12 October 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword.....	3
Introduction.....	4
1 Scope.....	5
2 Normative references.....	5
3 Terms, definitions, symbols and abbreviations.....	6
3.1 Terms and definitions.....	6
3.2 Symbols and abbreviations.....	7
4 Requirements for constituent materials.....	7
4.1 General.....	7
4.2 Binder.....	7
4.2.1 General.....	7
4.2.2 Selection of binder.....	7
4.2.3 Binder in mixtures with reclaimed asphalt.....	8
4.3 Aggregate.....	8
4.3.1 Coarse aggregate.....	8
4.3.2 Fine aggregate.....	8
4.3.3 All-in aggregates.....	8
4.3.4 Added filler.....	8
4.4 Reclaimed asphalt.....	9
4.5 Additives.....	9
5 Requirements for the mixture.....	9
5.1 General.....	9
5.2 Composition, grading, binder content and additives.....	9
5.2.1 Composition.....	9
5.2.2 Grading.....	10
5.2.3 Binder content.....	11
5.2.4 Additives.....	12
5.3 Coating and homogeneity.....	12
5.4 Void content.....	12
5.5 Water sensitivity.....	13
5.6 Resistance to abrasion by studded tyres.....	13
5.7 Mechanical stability.....	14
5.8 Reaction to fire.....	15
5.9 Resistance to fuel for application on airfields.....	15
5.10 Resistance to de-icing fluid for application on airfields.....	15
5.11 Temperature of the mixture.....	16
5.12 Durability.....	16
6 Evaluation of conformity.....	16
7 Identification.....	16
Annex A (normative) Calculations of the penetration or the softening point of the binder of a mixture when reclaimed asphalt is used.....	18
A.1 General.....	18
A.2 Calculation of the penetration of the binder of a mixture.....	18
A.3 Calculation of the softening point of the binder of a mixture.....	18
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Construction Products Directive.....	20

Foreword

This European Standard (EN 13108-2:2006) 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 November 2006, and conflicting national standards shall be withdrawn at the latest by January 2008.

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 EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this European Standard.

This European Standard is one of a series of standards 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.*

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 13108-20, *Bituminous mixtures — Material specifications — Part 20: Type Testing.*

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

No existing European Standard is superseded.

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

Introduction

The ultimate aim is to specify the required fundamental properties of the bituminous mixtures. However, as specifications for Asphalt Concrete for very thin layers have traditionally been based empirically on compositional recipes combined with specifications for the constituent materials with additional requirements based on performance related tests and as insufficient experience is available with fundamental testing of Asphalt Concrete for very thin layers, this European Standard, for the moment, specifies empirical requirements only.

Asphalt Concretes for very thin layers is to be used for surface courses with a thickness of 20 mm to 30 mm.

1 Scope

This European Standard specifies requirements for mixtures of the mix group Asphalt Concrete for very thin layers for use on roads, airfields and other trafficked areas.

NOTE A mixture specification derived from this European Standard can be used either to declare the conformity of a mixture with known requirements or to make known what those requirements are.

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.

Asphalt Concrete very thin layer mixtures with chemical modified binders not covered by EN 14023 are not covered by this European Standard.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. 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, *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 12697-3, *Bituminous mixtures — Test methods for hot mix asphalt — Part 3: Bitumen recovery: Rotary evaporator*

EN 12697-4, *Bituminous mixtures — Test methods for hot mix asphalt — Part 4: Bitumen recovery: Fractionating column*

EN 12697-13, *Bituminous mixtures — Test methods for hot mix asphalt — Part 13: Temperature measurement*

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

EN 13108-4:2005, *Bituminous mixtures — Material specifications — Part 4: Hot Rolled Asphalt*

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

EN 13108-20:2005, *Bituminous mixtures — Material specifications — Part 20: Type Testing*

EN 13108-21:2005, *Bituminous mixtures — Material specifications — Part 21: Factory Production Control*

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

EN 14023, *Bitumen and bituminous binders — Specifications for polymer modified bitumens*

ISO 565, *Test sieves — Metal wire cloth, perforated metal plate and electroformed sheet — Nominal sizes of openings*