

Bituminous mixtures - Material specifications - Part 8: Reclaimed 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 8: Reclaimed asphalt

Mélanges bitumineux - Spécifications pour le matériau - Partie 8: Agrégats d'enrobés

Asphaltmischgut - Mischgutanforderungen - Teil 8: Ausbauasphalt

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

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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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Cont	ents	Page
European forewordIntroduction		
2	Normative references	
3	Terms, definitions, symbols and abbreviations	6
3.1	Terms and definitions	
3.2	Symbols and abbreviations	
4	Requirements for the feedstock	8
4.1	Foreign matter	
4.2	Binder	9
4.2.1	Type of binder	9
4.2.2	Binder properties	
4.3	Aggregate grading and D	
4.4	Binder content	
4.5	Particle size of reclaimed asphalt	10
5	Description of the feedstock	10
5.1	General	
5.2	Source of reclaimed asphalt	
5.3	Type and properties of aggregate	
5.4	Homogeneity	
5.5	Sampling and Testing	
5.5.1	Feedstock	
5.5.2	Sampling	
5.5.3	Test frequency and number of samples (n)	
5.5.4	Testing	
5.6	Feedstock control	11
6	Identification	11
Biblio	graphy	13

European foreword

This document (EN 13108-8:2016) 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of an identical text or by endorsement, at the latest by December 2016, and conflicting national standards shall be withdrawn at the latest by March 2018.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 13108-8:2005.

Compared with EN 13108-8:2005, the following changes have been made:

- a) update for consistency with other parts of EN 13108 series and CPR requirements;
- b) introduction of term "site-won asphalt" and differentiation from feedstock;
- c) note exclusion of contaminated materials;
- d) new Table 1 for minimum test frequencies for feedstock;
- e) enhanced requirements for traceability of delivered feedstock.

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

EN 13108-8:2016 (E)

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 use of recycling in asphalt production makes it necessary to specify reclaimed asphalt as a constituent material in a way similar to that of aggregates and binders. In the asphalt product standards EN 13108-1 up to and including EN 13108-7 and EN 13108-9 the use of reclaimed asphalt is permitted with requirements related to the percentage addition.

Site-won asphalt comprises asphalt taken by milling of asphalt road layers, slabs ripped up from asphalt pavements and asphalt from reject and surplus production.

The processing of site-won asphalt results in reclaimed asphalt, suitable and ready to be used as constituent material for asphalt, after being tested, assessed and classified according to this standard. Reclaimed asphalt (RA) may be used as a constituent material for bituminous mixtures manufactured in an asphalt plant, in accordance with the specifications for those mixtures.

This European Standard contains requirements for reclaimed asphalt with respect to binder and aggregate properties and foreign matter that apply in all cases of usage of reclaimed asphalt. Additionally, this European Standard indicates which properties of the reclaimed asphalt and its constituent materials need to be declared and documented if a description of a feedstock is necessary.

Since the requirements for the asphalt mixtures are the same for mixtures with and without reclaimed asphalt, a set of properties of the reclaimed asphalt are of importance. The particle size and properties of the aggregate, the binder content, the properties of the binder and foreign matter in the reclaimed asphalt are relevant to the quality of the product, i.e. the fresh asphalt in which it is mixed. The level of homogeneity of the material in practice determines the maximum amount of reclaimed asphalt that may be used.

The size of the particles of asphalt in the reclaimed asphalt, which may range from large lumps to finely milled material, is relevant only to the process to be used to mix into the fresh asphalt.

1 Scope

This European Standard specifies requirements for the classification and description of reclaimed asphalt as a constituent material for asphalt mixtures. It is not a standard for compliance.

This European Standard only specifies reclaimed asphalt with bituminous binders, such as: paving grade bitumen, modified bitumen or hard grade bitumen. Reclaimed asphalt contaminated with coal tar or other additives or components above hazardous levels is not covered by this standard and will need to be considered under Member State Environmental, and Health and Safety Regulations.

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 932-1, Tests for general properties of aggregates — Part 1: Methods for sampling

EN 933-1, Tests for geometrical properties of aggregates — Part 1: Determination of particle size distribution — Sieving method

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 12596, Bitumen and bituminous binders — Determination of dynamic viscosity by vacuum capillary

EN 12697-1, Bituminous mixtures — Test methods for hot mix asphalt — Part 1: Soluble binder content

EN 12697-2, Bituminous mixtures — Test methods — Part 2: Determination of particle size distribution

EN 12697-3, Bituminous mixtures — Test methods for hot mix asphalt — Part 3: Bitumen recovery: Rotary evaporator

EN 12697-4, Bituminous mixtures — Test methods — Part 4: Bitumen recovery: Fractionating column

EN 12697-42, Bituminous mixtures — Test methods for hot mix asphalt — Part 42: Amount of foreign matter in reclaimed asphalt

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

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