

ASFALTSEGUD. KATSEMEETODID. OSA 2:  
TERASTIKULISE KOOSTISE MÄÄRAMINE

Bituminous mixtures - Test methods - Part 2:  
Determination of particle size distribution

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 12697-2:2025 sisaldab Euroopa standardi EN 12697-2:2024 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 18.12.2024.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 12697-2:2025 consists of the English text of the European standard EN 12697-2:2024.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 18.12.2024.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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EUROPEAN STANDARD

EN 12697-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 12697-2:2015+A1:2019

English Version

## Bituminous mixtures - Test methods - Part 2: Determination of particle size distribution

Mélanges bitumineux - Méthodes d'essai - Partie 2 :  
Granulométrie

Asphalt - Prüfverfahren - Teil 2: Korngrößenverteilung

This European Standard was approved by CEN on 25 November 2024.

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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## European foreword

This document (EN 12697-2:2024) has been prepared by Technical Committee CEN/TC 227 “Road materials”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by June 2025, and conflicting national standards shall be withdrawn at the latest by June 2025.

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

This document supersedes EN 12697-2:2015+A1:2019.

EN 12697-2:2024 includes the following significant technical changes with respect to EN 12697-2:2015+A1:2019:

- [Introduction] new Clause introduced. Text moved from previous Clause 4 “Significance and use”;
- [1] deletion of the misleading paragraph regarding the applicability of this European standard;
- [2] deletion of the normative reference to EN 932-6. Added to the Bibliography;
- [2] deletion of “for hot mix asphalt” from the titles of test methods in the EN 12697 series;
- [3] title amended to read “Terms, definitions and symbols”;
- [3.1] title amended to read “Terms and definitions”;
- [3.1.1] new Clause introduced for the term “particle size distribution”;
- [3.2] new Clause introduced for symbols;
- [4] title amended to read “Principle”. Following Clauses re-numbered accordingly;
- [5.2] sieve size 2,8 mm replaced by 4 mm. Paragraph revised (Clause 6.2 in the previous edition);
- [5.3] clarification regarding sieve sizes higher than or equal to 4 mm (Clause 6.3 in the previous edition);
- [6] amended description for the drying to constant mass (Clause 7 in the previous edition);
- [6] clarification that particles shall be completely separated from each other;
- [7] clarification of the minimum amount of material (Clause 8 in the previous edition);
- [9] update of the contents in the test report (Clause 10 in the previous edition);
- [10] Text under Table 1 introduced as table note. NOTE under Table 1 deleted (Clause 11 in the previous edition).

A list of all parts in a series can be found on the CEN website: [www.cencenelec.eu](http://www.cencenelec.eu).

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## Introduction

The composition of a bituminous mixture in terms of binder content and aggregates grading is a significant quality parameter. Controlling the mixture grading is an important instrument for product quality management.

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## 1 Scope

This document specifies a procedure for the determination of the particle size distribution of the aggregates of bituminous mixtures by sieving. The test is applicable to aggregates recovered after binder extraction in accordance with EN 12697-1 or EN 12697-39.

NOTE Fibres, solid (non-soluble during extraction) additives and (some) binder modifiers influence the test result.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

EN 12697-1, *Bituminous mixtures — Test methods — Part 1: Soluble binder content*

EN 12697-39, *Bituminous mixtures — Test methods — Part 39: Binder content by ignition*

ISO 3310-1, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth*

ISO 3310-2, *Test sieves — Technical requirements and testing — Part 2: Test sieves of perforated metal plate*

## 3 Terms, definitions and symbols

### 3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

#### 3.1.1

##### **particle size distribution**

portion of aggregate on specified sieves expressed as cumulative percentages by mass passing those sieves

### 3.2 Symbols

#### 3.2.1

*D*

upper sieve size of the aggregate in the bituminous mixture in millimetre (mm) according to the relevant material specification standard

## 4 Principle

The test consists of the determination of the particle size distribution of the aggregates in the bituminous mixture by sieving and weighing. A granulometric analysis of the aggregate is performed after binder extraction.