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Bituminous mixtures - Test methods - Part 32: Specimen preparation by vibratory compactor

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NATIONAL FOREWORD

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See Eesti standard EVS-EN 12697-32:2019 sisaldab Euroopa standardi EN 12697-32:2019 ingliskeelset teksti.	This Estonian standard EVS-EN 12697-32:2019 consists of the English text of the European standard EN 12697-32:2019.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 06.03.2019.	Date of Availability of the European standard is 06.03.2019.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 93.080.20

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 12697-32

March 2019

ICS 93.080.20

Supersedes EN 12697-32:2003+A1:2007

English Version

Bituminous mixtures - Test methods - Part 32: Specimen preparation by vibratory compactor

Matériaux enrobés - Méthodes d'essai - Partie 32 : Compactage en laboratoire de mélanges bitumineux par compacteur vibratoire

Asphalt - Prüfverfahren - Teil 32: Herstellung von Probekörpern mit einem Vibrationsverdichter

This European Standard was approved by CEN on 19 November 2018.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 12697-32:2019) 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of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.

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 12697-32:2003+A1:2007.

The following is a list of significant technical changes since the previous edition:

— The series title no longer makes the method exclusively for hot mix asphalt;

— Title shortened to be in line with other compaction methods;

— [7.1.11] De-moulding of sample clarified;

— [7.3.1] Reference to EN 12697-30:2004+A1:2007 replaced by EN 12697-35;

— [A.2.8] Reference to apparatus for water content: EN 1097-5 replaces EN 12697-14;

— [A.6] Deletion of brackets in formulae: [A.1] and [A.2].

A list of all parts in the EN 12697 series can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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1 Scope

This document specifies a method for the preparation of bituminous test specimens using a vibratory compaction technique.

This document is applicable to loose mixtures and cores and is used to establish a refusal density for a bituminous mixture, or to determine the ease of compaction as described in EN 12697-10.

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 1097-5, *Tests for mechanical and physical properties of aggregates — Part 5: Determination of the water content by drying in a ventilated oven*

EN 12697-6, *Bituminous mixtures — Test methods for hot mix asphalt — Part 6: Determination of bulk density of bituminous specimens*

EN 12697-8, *Bituminous mixtures — Test methods— Part 8: Determination of void characteristics of bituminous specimens*

EN 12697-10, *Bituminous mixtures — Test methods — Part 10: Compactability*

EN 12697-27, *Bituminous mixtures — Test methods — Part 27: Sampling*

EN 12697-35, *Bituminous mixtures — Test methods — Part 35: Laboratory mixing*

3 Terms and definitions

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

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

— IEC Electropedia: available at http://www.electropedia.org/

— ISO Online browsing platform: available at http://www.iso.org/obp

3.1
bulk density
mass in air per unit volume of the compacted specimen at ambient temperature

3.2
refusal density
mass per unit volume, including voids, of the specimen compacted to refusal

3.3
refusal air voids content
air voids content of specimen compacted to refusal in accordance with the test method

3.4
percentage refusal density
ratio of the initial bulk density of the compacted specimen to its refusal density, expressed as a percentage

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