SLOVENSKI STANDARD
SIST EN 12697-29:2020

01-september-2020

Nadomešča:
SIST EN 12697-29:2004

Bitumenske zmesi - Preskusne metode - 29. del: Ugotavljanje mer bitumenskega preskušanca

Bituminous mixtures - Test methods - Part 29: Determination of the dimensions of a bituminous specimen

Asphalt - Prüfverfahren - Teil 29: Bestimmung der Maße von Asphalt-Probekörpern

Matériaux enrobés - Méthode d'essai - Partie 29 : Détermination des dimensions du spécimen bitumineux

Ta slovenski standard je istoveten z: **EN 12697-29:2020**

ICS:

93.080.20	Materiali za gradnjo cest	Road construction materials

SIST EN 12697-29:2020 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 12697-29

June 2020

ICS 93.080.20

Supersedes EN 12697-29:2002

English Version

Bituminous mixtures - Test methods - Part 29: Determination of the dimensions of a bituminous specimen

Mélanges bitumineux - Méthodes d'essai - Partie 29 : Détermination des dimensions des éprouvettes bitumineuses

Asphalt - Prüfverfahren - Teil 29: Bestimmung der Maße von Asphalt-Probekörpern

This European Standard was approved by CEN on 18 November 2019.

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.

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

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

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

Contents

Page

European foreword

This document (EN 12697-29:2020) 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 December 2020, and conflicting national standards shall be withdrawn at the latest by December 2020.

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 12697-29:2002.

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

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

— [ge] editorial update according to current standard template;

— [Scope] paragraph referring to the product standards of bituminous mixtures for the applicability of this document deleted;

— [Clause 2] new clause: 2 Normative references introduced according ISO/IEC Directives – Part 2;

— [Clause 3] new clause: 3 Terms and definitions introduced according ISO/IEC Directives – Part 2. Following clauses renumbered accordingly;

— [4.1] accuracy of ± 0,1 mm introduced for calliper gauge. (2.1 in previous version);

— [5.3.1] amended description for measuring the diameter depending on the thickness of specimen. (3.2.1 in previous version);

— [5.3.2] amended description. (3.2.2 in previous version). “six” deleted as a result of the change in 5.3.1;

— [5.4.3] amended description. “four” deleted since in some cases the measurements are more than four. (3.4.3 in previous version);

— [5.4.3] NOTE clarified with an example.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document specifies a test method for determining the dimensions of cylindrical, rectangular or non-rectangular bituminous test specimens by measurement.

The test is applicable to laboratory-made specimens, trimmed by sawing, or specimens from cores cut from the road, trimmed by sawing.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

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 https://www.iso.org/obp/ui

4 Apparatus

4.1 Calliper gauge with an accuracy of ± 0,1 mm.

4.2 Approved jig or other device.

5 Procedure

5.1 General

The measurements should preferably be made with the specimen standing firmly on its upper face in a vertical position. Alternatively the specimen can be laid on a level surface in a horizontal position and rolled as necessary to permit the taking of all measurements.

5.2 Measurement of height

5.2.1 Take four measurements evenly spaced around the perimeter of each specimen. The position of these measurements shall be clearly marked along each specimen. All measurements shall have a limit deviation of ± 0,1 mm.

5.2.2 Each measurement shall be made approximately 10 mm in from the edge of the specimen.

5.2.3 Define the average of the four measurements as the height of the specimen and express it to the nearest 0,1 mm.

5.3 Measurement of diameter

5.3.1 For specimens with thickness > 60 mm, take two measurements perpendicular to each other at the top, the middle and the bottom of the specimen.

For specimens with thickness > 30 mm to 60 mm, take two measurements perpendicular to each other at the top and the bottom of the specimen.

For specimens with thickness ≤ 30 mm take two measurements perpendicular to each other in the middle of the specimen.

All measurements shall have a limit deviation of ± 0,1 mm.

5.3.2 Define the average of measurements as the diameter of the specimen and express it to the nearest 0,1 mm.

5.4 Measurement of (non)-rectangular specimens

5.4.1 Take four measurements evenly spaced around the perimeter of each specimen in each direction (height, width and depth). If the dimensions in one or more directions change substantially (e.g. a two point bending test specimen) the number of measurements in that direction shall be extended in such a way that the volume of the specimen can always be calculated.

The position of the measurements shall be clearly marked along each specimen. All measurements shall have a limit deviation of ± 0,1 mm.

5.4.2 Each measurement shall be made near the edges of the specimen.

5.4.3 Define the average of the measurements as the dimension of the specimen in a given direction and express it to the nearest 0,1 mm.

NOTE It is possible that in one direction more than one average value can be calculated (e.g. for a two point bending specimen).

6 Test report

With reference to this document the report shall include the following information:

a) measurement procedure used;

b) relevant dimensions of each specimen, reported to the nearest 0,1 mm.

7 Precision

NOTE The precision of this test has not yet been established.