

<b>STN</b>	<b>Asfaltové zmesi Skúšobné metódy Časť 44: Šírenie trhliny na skúšobnom telese polkruhového prierezu namáhanom ohybom</b>	<b>STN EN 12697-44</b>  73 6160
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Bituminous mixtures - Test methods - Part 44: Crack propagation by semi-circular bending test

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/19

Obsahuje: EN 12697-44:2019

Oznámením tejto normy sa ruší  
STN EN 12697-44 (73 6160) z januára 2013

**129122**

EUROPEAN STANDARD

**EN 12697-44**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2019

ICS 93.080.20

Supersedes EN 12697-44:2010

English Version

## Bituminous mixtures - Test methods - Part 44: Crack propagation by semi-circular bending test

Mélanges bitumineux - Méthodes d'essai - Partie 44 :  
Propagation de fissure par essai de flexion d'un bloc  
semi-circulaire

Asphalt - Prüfverfahren - Teil 44: Bestimmung der  
Rissausbreitung mittels Halbzyylinder-Biegeversuch

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

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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  
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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**EN 12697-44:2019 (E)**

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## European foreword

This document (EN 12697-44:2019) 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of an identical text or by endorsement, at the latest by September 2019, and conflicting national standards shall be withdrawn at the latest by September 2019.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 12697-44:2010.

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;
- [6.10] Tolerance for notch width amended to  $(0,40 \pm 0,20)$  mm;
- [7.1.2]; [7.1.3]; [7.1.4] Addition of tolerance for height of specimen:  $(74 \pm 1)$  mm;
- [7.1.6] Tolerance for notch width amended to  $(0,40 \pm 0,20)$  mm in accordance with 6.10;
- [9.4] Formulae (2) to (4) amended. Formula (5) deleted and (6) renumbered to (5).

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.

**EN 12697-44:2019 (E)****1 Scope**

This document specifies the Semi-Circular Bending (SCB) test method to determine the tensile strength or fracture toughness of an asphalt mixture for the assessment of the potential for crack propagation. The results of the test can be used to calculate:

- the maximum load that the material containing a notch (crack) can resist before failure;
- when the presence of a notch is critical.

It should be noted that the test only describes a method to determine the resistance to crack propagation of an asphalt mixture. The crack propagation phase describes the second part of failure mechanism during dynamic loading. The first phase, which is the crack initiation phase, is mainly covered by the fatigue test (EN 12697-24).

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

EN 12697-31, *Bituminous mixtures — Test methods — Part 31: Specimen preparation by gyratory compactor*

EN 12697-33, *Bituminous mixtures — Test methods — Part 33: Specimen prepared by roller compactor*

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

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**