

ASFALTSEGUD. KATSEMEETODID. OSA 30:  
PROOVIKEHADE VALMISTAMINE LÖÖKTIHENDAJAGA

Bituminous mixtures - Test methods - Part 30:  
Specimen preparation by impact compactor

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

Bituminous mixtures - Test methods - Part 30: Specimen  
preparation by impact compactor

Mélanges bitumineux - Méthodes d'essai - Partie 30:  
Confection d'éprouvettes par compacteur à impact

Asphalt - Prüfverfahren - Teil 30: Probenvorbereitung,  
Marshall-Verdichtungsgerät

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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 12697-30:2018) 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of an identical text or by endorsement, at the latest by June 2019 and conflicting national standards shall be withdrawn at the latest by June 2019.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 12697-30:2012.

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;
- [2] Change to undated reference to EN 12697-35 including change of title;
- [2] Change of titles for EN 12697-10 and EN 12697-27 (hot mix asphalt deleted);
- [4] Change to undated reference to EN 12697-35;
- [5.1.1] and [5.2.1] For clarity "self-composed" is deleted from respective NOTE;
- [5.2.2.2] Last paragraph merged in to current NOTE;
- [Figure 5] NOTE 3 changed to normal text;
- [7] Deleted description for the quantity of mixture prepared for compaction to be not more than that required for 4 specimens;
- [8.2] To avoid conflicting requirements with EN 12697-35 all text is deleted and replaced with a general reference to EN 12697-35;
- [8.5] New paragraph added with description for the use of different number of blows;
- [8.7] NOTE deleted and inserted as normal text in the new paragraph in [8.5].

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 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This document specifies methods of moulding specimens from bituminous mixtures by impact compaction. Such specimens are primarily used to determine bulk density and other technological characteristics, e.g. Marshall stability and flow according to EN 12697-34.

This document applies to bituminous mixtures (both those made up in a laboratory and those resulting from work site sampling), with not more than 15 % by mass retained on the 22,4 mm sieve and none on the 31,5 mm sieve.

## 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 12697-10, *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:

- Electropedia I.E.C. available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

### 3.1

#### **set number**

number of blows per side that is set for the test method for which the sample is intended to be used

Note 1 to entry: The number of blows is commonly 50 but can be any value between 25 and 100.

## 4 Principle

To prepare the specimens, tempered asphalt mix, either freshly mixed according to EN 12697-35 or sampled on site or plant according to EN 12697-27 shall be transferred into a specified steel compaction mould. The mixture is then compacted into one of the specified impact compactors by the sliding mass falling from a specified height with a specified number of blows within a specified time onto the foot of the hammer, located on top of the asphalt specimen. The specimen shall then cool down to room temperature.

## 5 Apparatus

### 5.1 Impact compactor with steel anvil:

#### 5.1.1 General:

**The impact compactor with steel anvil** (see Figure 1): a machine-driven apparatus shall comprise the components listed in 5.1.1.1 to 5.1.1.8.

NOTE In Annex B, a guideline for possible checking of equipment is described.