

MÜÜRITISE KATSEMEETODID. OSA 2:  
PAINDETUGEVUSE MÄÄRAMINE

Methods of test for masonry - Part 2: Determination of  
flexural strength

## EESTI STANDARDI EESSÕNA

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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.
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EUROPEAN STANDARD

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English Version

## Methods of test for masonry - Part 2: Determination of flexural strength

Méthodes d'essai de la maçonnerie - Partie 2:  
Détermination de la résistance à la flexion

Prüfverfahren für Mauerwerk - Teil 2: Bestimmung der  
Biegezugfestigkeit

This European Standard was approved by CEN on 3 January 2016.

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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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This document consolidates EN 1052-2:2016 and the corrigendum EN 1052-2:2016/AC:2017.



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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN 1052-2:2016) has been prepared by Technical Committee CEN/TC 125 "Masonry", 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of an identical text or by endorsement, at the latest by September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

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

This document supersedes EN 1052-2:1999.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document includes the corrigendum EN 1052-2:2016/AC:2017 which corrects 4.2, 8.1 and 8.3.

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

## 1 Scope

This European standard specifies a method for determining the flexural strength of small masonry specimens for the two principal axes of loading. Guidance is given on the preparation of the specimens, the conditioning required before testing, the testing machine, the method of test, the method of calculation and the contents of the test report.

## 2 Normative references

The following referenced documents are indispensable for the application 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 772-1, *Methods of test for masonry units — Part 1: Determination of compressive strength*

EN 772-10, *Methods of test for masonry units — Part 10: Determination of moisture content of calcium silicate and autoclaved aerated concrete units*

EN 998-2, *Specification for mortar for masonry — Part 2: Masonry mortar*

EN 1015-3, *Methods of test for mortar for masonry — Part 3: Determination of consistence of fresh mortar (by flow table)*

EN 1015-7, *Methods of test for mortar for masonry — Part 7: Determination of air content of fresh mortar*

EN 1015-11, *Methods of test for mortar for masonry — Part 11: Determination of flexural and compressive strength of hardened mortar*

## 3 Principle

The flexural strength of masonry is derived from the strength of small specimens tested to destruction under four point loading. The maximum load achieved is recorded. The characteristic value, calculated from the maximum stresses achieved by the samples is considered to be the flexural strength of the masonry.

## 4 Terms, definitions and symbols

### 4.1 Terms and definitions

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

#### 4.1.1

##### **masonry**

assemblage of masonry units laid in a specified pattern and jointed together with mortar

#### 4.1.2

##### **flexural strength of masonry**

strength of masonry in pure bending assuming a linear stress distribution of internal stresses