

**Müürikivide katsemeetodid. Osa 2: Müürikivi  
tühikute protsentuaalse pinna määramine (paberi  
muljumisjälje alusel) KONSOLIDEERITUD TEKST**

Methods of test for masonry units - Part 2:  
Determination of percentage area of voids in masonry  
units (by paper indentation) CONSOLIDATED TEXT

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 772-2:2005 sisaldab Euroopa standardi EN 772-2:1998 + A1:2005 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 11.01.2000 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 19.08.1998.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 772-2:2005 consists of the English text of the European standard EN 772-2:1998 + A1:2005.

This standard is ratified with the order of Estonian Centre for Standardisation dated 11.01.2000 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 19.08.1998.

The standard is available from Estonian standardisation organisation.

ICS 91.100.15

**Võtmesõnad:** betoon, ehitamine, määramine, müüritistükid, protsentuaalne pind, teimid, tühemed

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Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:  
Aru 10 Tallinn 10317 Eesti; [www.evs.ee](http://www.evs.ee); Telefon: 605 5050; E-post: [info@evs.ee](mailto:info@evs.ee)

**English version**

**Methods of test for masonry units**

Part 2: Determination of percentage area of voids in masonry units  
(by paper indentation)  
(includes Amendment A1:2005)

Méthodes d'essai des éléments de  
maçonnerie – Partie 2: Détermination  
du pourcentage de vides dans les élé-  
ments de maçonnerie (par empreinte  
sur papier) (amendement A1:2005  
inclus)

Prüfverfahren für Mauersteine – Teil 2:  
Bestimmung des prozentualen Loch-  
anteils in Mauersteinen (mittels Papier-  
eindruck) (enthält Änderung A1:2005)

This European Standard was approved by CEN on 1998-07-02 and Amendment A1 on 2004-12-29.

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 Management Centre or to any CEN member.

The European Standards exist 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 Management Centre has the same status as the official versions.

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

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

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### Foreword to EN 772-2:1998

This European Standard 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, by February 1999 at the latest, and conflicting national standards shall be withdrawn by September 2000 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

### Foreword to EN 772-2:1998/A1:2005

This amendment to EN 772-2:1998 has been prepared by Technical Committee CEN/TC 125 'Masonry', the Secretariat of which is held by BSI.

This amendment shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by August 2005 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, and the United Kingdom.

## 1 Scope

This European Standard specifies a method of determining the percentage area of voids in masonry units.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provision from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

- EN 771-1 Specification for masonry units – Part 1: Clay masonry units
- EN 771-2 Specification for masonry units – Part 2: Calcium silicate masonry units
- EN 771-3 Specification for masonry units – Part 3: Aggregate concrete masonry units (dense and lightweight aggregates)
- EN 771-4 Specification for masonry units – Part 4: Autoclaved aerated concrete masonry units
- EN 771-5 Specification for masonry units – Part 5: Manufactured stone masonry units

## 3 Principle

After preparation of the specimens thick pieces of paper are impressed on the test surfaces<sup>1</sup> of the masonry units and the indentation measured to give the percentage area of voids.

## 4 Symbols

- $A_v$  is the total cross sectional area of voids, (mm<sup>2</sup>)
- $A_u$  is the cross sectional area of masonry unit, (mm<sup>2</sup>)
- $M_{pv}$  is the mass of paper cut to the shape of the void, (g)
- $M_{pu}$  is the mass of paper cut to the shape of the masonry unit, (g)

## 5 Materials

Thick, stiff sheets of paper, the dimensions of each piece of paper exceeding the dimensions of the masonry unit by at least 20 mm in both directions.

## 6 Apparatus

### 6.1 A compression testing machine.

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<sup>1</sup> The test may be arranged so that the percentage area of voids in opposing faces of the masonry unit are tested simultaneously or faces tested singly.