

Müürikivide katsemeetodid. Osa 14: Betoonist ja tehiskivist müürikivide niiskusepõhiste mahumuutuste määramine

Methods of test for masonry units - Part 14:
Determination of moisture movement of aggregate concrete and manufactured stone masonry units

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 772-14:2005 sisaldab Euroopa standardi EN 772-14:2001 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 16.05.2002 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 21.11.2001.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 772-14:2005 consists of the English text of the European standard EN 772-14:2001.

This standard is ratified with the order of Estonian Centre for Standardisation dated 16.05.2002 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 21.11.2001.

The standard is available from Estonian standardisation organisation.

ICS 91.100.30

Võtmesõnad: betoon

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English version

Methods of test for masonry units

**Part 14: Determination of moisture movement of aggregate concrete
and manufactured stone masonry units**

Méthodes d'essai des éléments de
maçonnerie – Partie 14: Détermination
de la variation due à l'humidité des élé-
ments de maçonnerie en béton de
granulats et en pierre reconstituée

Prüfverfahren für Mauersteine – Teil 14:
Bestimmung der feuchtebedingten
Formänderung von Mauersteinen aus
Beton und Betonwerksteinen

This European Standard was approved by CEN on 2001-10-13.

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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.

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CEN

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

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Foreword

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, at the latest by May 2002, and conflicting national standards shall be withdrawn at the latest by March 2004.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies a method of measuring the moisture movement of aggregate concrete and manufactured stone masonry units between two specified extreme moisture conditions.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions 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 (including amendments).

prEN 771-3, *Specification for masonry units - Part 3: Aggregate concrete masonry units (dense and lightweight aggregates)*.

prEN 771-5, *Specification for masonry units - Part 5: Manufactured stone masonry units*.

3 Principle

This test measures, on masonry units of the same concrete compositions and the same sampling:

- a) the expansion between the initial condition and after soaking in water for 4 days;
- b) the shrinkage between the initial condition and after drying for 21 days in a ventilated oven at 33 °C.

4 Symbols

- l_{0i} is the initial distance between gauge location pads, (mm)
- l_{1i} is the distance between gauge location pads after soaking, (mm)
- l_{2i} is the distance between gauge location pads after drying, (mm)
- $\Delta l_g / l$ is the mean moisture expansion coefficient, (mm/m)
- $\Delta l_r / l$ is the mean drying shrinkage coefficient, (mm/m)
- $\Delta l_c / l$ is the total movement coefficient, (mm/m)