

**Methods of test for masonry units - Part 21:
Determination of water absorption of clay and calcium
silicate masonry units by cold water absorption**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 772-21:2011 sisaldab Euroopa standardi EN 772-21:2011 ingliskeelset teksti.

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Standard on kättesaadav Eesti standardiorganisatsioonist.

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English Version

Methods of test for masonry units - Part 21: Determination of water absorption of clay and calcium silicate masonry units by cold water absorption

Méthodes d'essai des éléments de maçonnerie - Partie 21:
Détermination de l'absorption d'eau des éléments de
maçonnerie en terre cuite et en silico-calcaire par
absorption d'eau froide

Prüfverfahren für Mauersteine - Teil 21: Bestimmung der
Kaltwasseraufnahme von Mauerziegeln und
Kalksandsteinen

This European Standard was approved by CEN on 25 December 2010.

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Foreword

This document (EN 772-21:2011) 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of an identical text or by endorsement, at the latest by November 2011, and conflicting national standards shall be withdrawn at the latest by November 2011.

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1 Scope

This European Standard specifies a method of determining the water absorption of clay and calcium silicate masonry units by immersing them in cold water.

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 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 light-weight 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*

EN 771-6, *Specification for masonry units — Part 6: Natural stone masonry units*

3 Principle

After drying to constant mass a masonry unit is immersed in water for 24 h and the increase in mass is determined.

4 Symbols

M_d is the mass of the specimen after drying (g);

M_s is the mass of the specimen after soaking (g);

W_s is the water absorption of the specimen (%).

5 Apparatus

- 5.1 Water tank large enough to contain all of the samples, supported off the base of the tank so that water is in contact with all the faces of the specimen.
- 5.2 Ventilated oven capable of maintaining a temperature of $105\text{ °C} \pm 5\text{ °C}$.
- 5.3 Weighing instrument capable of weighing the specimens to an accuracy of 0,1 % of their mass when dry.