SLOVENSKI STANDARD
SIST EN 772-10:1999

01-november-1999

Metode preskuġanja zidakov ï 10. del: Ugotavljanje deleġa vlage apnenopeġļ enih zidakov in zidakov iz avtoklaviranega porobetona

Methods of test for masonry units - Part 10: Determination of moisture content of calcium silicate and autoclaved aerated concrete units

Prüfverfahren für Mauersteine - Teil 10: Bestimmung des Feuchtegehaltes von Kalksandsteinen und Mauersteinen aus Porenbeton

Méthodes d'essai des éléments de maçonnerie - Partie 10: Détermination de la teneur en humidité des éléments de maçonnerie en silico-calcaire et en béton cellulaire autoclavé

Ta slovenski standard je istoveten z: **EN 772-10:1999**

ICS:

91.100.15	Mineralni materiali in izdelki	Mineral materials and products
91.100.30	Beton in betonski izdelki	Concrete and concrete products

SIST EN 772-10:1999 **en**

EUROPEAN STANDARD
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English version

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This European Standard was approved by CEN on 14 October 1998.

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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 Central Secretariat has the same status as the official versions.

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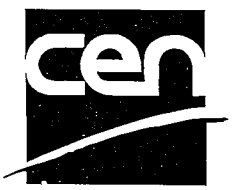

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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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of an identical text or by endorsement, at the latest by August 1999, and conflicting national standards shall be withdrawn at the latest by September 2000.

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 for determining the moisture content of calcium silicate and autoclaved aerated concrete masonry units.

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.

prEN 771-2	Specification for masonry units - Part 2: Calcium silicate masonry units
prEN 771-4	Specification for masonry units - Part 4: Autoclaved aerated concrete masonry units

3 Principle

After drying to constant mass, the moisture content is calculated as the ratio of the loss of mass during drying to the mass after drying.

4 Symbols

w_s is the moisture content, in percentage by mass

$m_{o,s}$ is the mass of specimen before drying, in grammes

$m_{dry,s}$ is the mass of specimen after drying, in grammes

5 Apparatus

5.1 A **ventilated oven** capable of maintaining a temperature of 105° C ± 5°C

5.2 A **weighing instrument** capable of weighing specimens to an accuracy of at least 0,1 % of their mass.

6 Preparation of specimens

Take a representative sample of not less than six units. For units with lengths ≥ 500 mm and/or heights ≥ 300 mm take not less than six representative portions cut from at least three units.

7 Test procedure

Before drying, weigh the test specimens ($m_{o,s}$)

Dry the test specimens at a temperature of 105° C ± 5° C to constant mass. Constant mass is reached if during the drying process in two subsequent weighings with a 24 h interval, the loss in mass between the two determinations is less than 0,2 % of the total mass.

After drying to constant mass, weigh the specimens ($m_{dry,s}$).

8 Calculation and expression of results

Calculate the moisture content (w_s) of the specimen from the ratio of the loss in mass during drying to the dry mass expressed to the nearest 0,5%.

$$w_s = \frac{m_{o,s} - m_{dry,s}}{m_{dry,s}} \times 100, \text{ in } \%$$

9 Evaluation of results

Calculate the mean value of the moisture content of the specimens to the nearest 1%.

10 Test report

The test report shall contain the following information :

a) the number, title and date of issue of this European Standard;

b) a description of the specimens to the relevant part of prEN 771;

c) the method of sampling and by which organization;

d) the date of delivery of the specimens;

e) the date of preparation of specimen and date of testing;

f) the number of specimens in sample and whether these are whole units or representative portions thereof;

g) the individual values of moisture content to the nearest 0,5% and mean value of moisture content to the nearest 1%;

h) remarks, if any.