



SLOVENSKI STANDARD
SIST EN 772-16:2002

01-januar-2002

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Methods of test for masonry units - Part 16: Determination of dimensions

Prüfverfahren für Mauersteine - Teil 16: Bestimmung der Maße

Méthodes d'essai des éléments de maçonnerie - Partie 16: Détermination des dimensions

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Ta slovenski standard je istoveten z: EN 772-16:2000

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ICS:

91.100.15 Mineralni materiali in izdelki Mineral materials and products

SIST EN 772-16:2002

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 772-16

June 2000

ICS 91.100.20

English version

Methods of test for masonry units - Part 16: Determination of dimensions

Méthodes d'essai des éléments de maçonnerie - Partie 16:
Détermination des dimensions

Prüfverfahren für Mauersteine - Teil 16: Bestimmung der
Maße

This European Standard was approved by CEN on 3 June 1999.

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 Central Secretariat or to any CEN member.

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.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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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 December 2000, and conflicting national standards shall be withdrawn at the latest by December 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.

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1 Scope

This European Standard specifies a method of determining the overall dimensions, thickness of shells and webs and depth of voids of 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 editions of the publication referred to applies.

- prEN 771-1 Specification for masonry units - Part 1 : Clay masonry units
- prEN 771-2 Specification for masonry units - Part 2 : Calcium silicate masonry units
- prEN 771-3 Specification for masonry units - Part 3 : Aggregate concrete masonry units (dense and lightweight aggregates)
- prEN 771-4 Specification for masonry units - Part 4 : Autoclaved aerated concrete masonry units
- prEN 771-5 Specification for masonry units - Part 5 : Manufactured stone masonry units
- prEN 771-6 Specification for masonry units - Part 6 : Natural stone masonry units

3 Principle

After preparation, the length, width and height of the specimens and the thickness of shells and webs are measured with an appropriate device.

4 Symbols

l_u is the length of the masonry unit, (mm).

w_u is the width of the masonry unit, (mm).

h_u is the height of the masonry unit, (mm).

5 Apparatus

An appropriate measuring device or devices conforming to the requirements for measuring precision given in table 1.

Table 1 Measurement precision

Tolerance on the dimension being measured as specified in the relevant part of prEN 771 mm	Measuring error (maximum) mm
≤ 1	0,2
> 1	0,5

6 Preparation of specimens

6.1 Sampling

The method of sampling shall be in accordance with the relevant part of prEN 771. The minimum number of specimens shall be six, but a larger minimum number may be specified in the product specification, in which case that larger number shall be used.

6.2 Surface treatment

Remove any superfluous material adhering to the unit as a result of the manufacturing process before measuring,

7 Procedure

7.1 Length, width and height

Determine the length (l_u), the width (w_u) and the height (h_u) using procedure a) below, unless procedure b) is otherwise specified in the relevant part of prEN 771:

- a) Two measurements taken near the edges of each specimen at the positions shown in figure 1 a);
- b) One measurement taken approximately in the centre of each specimen at the positions shown in figure 1 b).

For specimens having irregular surfaces (tongues and grooves, grip holes etc.) determine the length, width and height using procedure a), with no allowance made for these features, as shown in figure 1 c) unless otherwise specified in the relevant part of prEN 771.

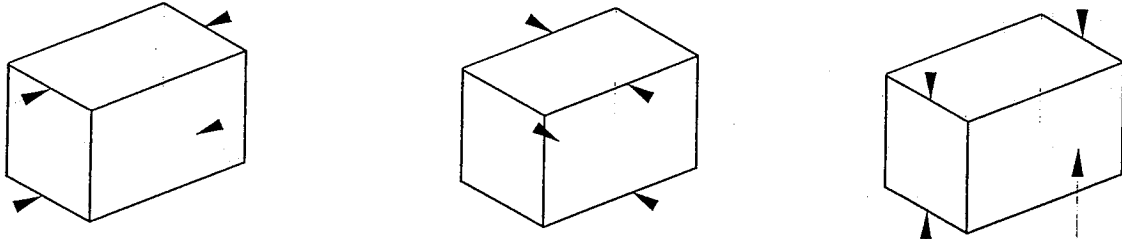


Figure 1 a) Measurement positions

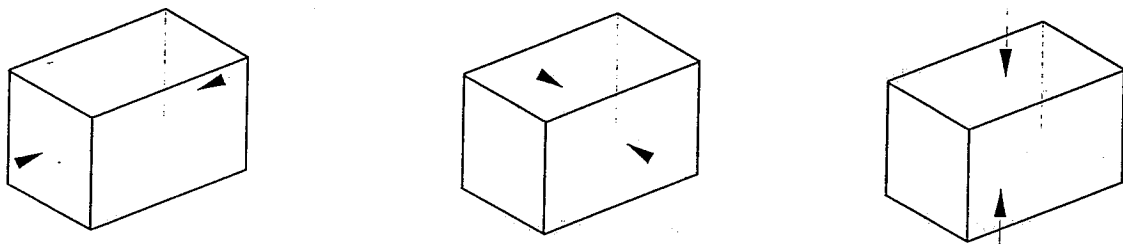


Figure 1 b) Measurement positions

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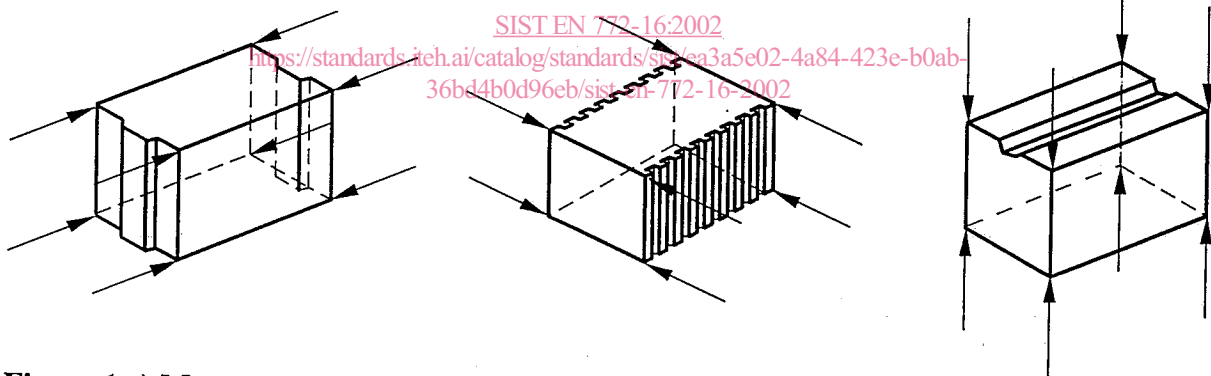


Figure 1 c) Measurement positions

7.2 Thickness of shells and webs

Where required by the relevant part of prEN 771, measure the thickness of the webs and shells of each specimen for each declared web and shell thickness. Measure at discrete points at three separate positions such that the measured values are representative of the minimum thickness of the web or shell being measured. State the measured thickness of the webs and the shells of each specimen to the nearest 0,2 mm.

7.3 Depth of holes

Where required by the relevant part of prEN 771, measure the depth of each hole which does not pass through the masonry unit at two different positions. State the result of each depth measurement to the nearest 0,5 mm.

8. Calculation and expression of results

If option a) of 7.1 is chosen, calculate the length (l_u), width (w_u) and height (h_u) of each specimen as the mean of the two measurements, expressed to the nearest 0,2 mm or 0,5 mm depending on the tolerance specified in the relevant part of **prEN 771** (see **table 1**).

If option b) of 7.1 is chosen, express the length (l_u), width (w_u) and height (h_u) of each specimen to the nearest 0,2 mm or 0,5 mm depending on the tolerance specified in the relevant part of **prEN 771** (see **table 1**).

Calculate the length, width and height for the sample as the mean of the values of the individual specimens. Express the result to the nearest 0,5 mm when the maximum measuring error is 0,2 mm and to the nearest 1 mm when the maximum measuring error is 0,5 mm.

Calculate the mean web and shell thickness for each specimen to the nearest 0,2 mm. Calculate the thickness of webs and shells as the mean of the values of the individual specimens for the sample and express the result to the nearest 0,5 mm.

Calculate the mean depth of each hole, where necessary, and state this to the nearest 0,5 mm. Calculate the depth of the holes for the sample as the mean values of the individual specimens to the nearest 1 mm.

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9 Test report

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The test report shall contain the following information: [sist/ea3a5e02-4a84-423e-b0ab-36bd4b0d96cb/sist-en-772-16-2002](#)

- 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 receipt of the specimens by the test laboratory;
- e) the date of testing the specimens;
- f) the number of specimens in sample;
- g) a description of the measuring device;
- h) the way of measuring (see **7.1 a) or b)** ;
- i) the length (l_u), width (w_u) and height (h_u) of each specimen expressed to the nearest 0,5 mm or 1,0 mm (see **Clause 8**), the mean values for the sample and the precision of the measuring device;
- j) the thickness of shells and webs, when required by the relevant part of **prEN 771**, stated to the nearest 0,2 mm for each unit and the value for the sample which is the mean of the individual thicknesses;