



SLOVENSKI STANDARD

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Nadomešča:

SIST EN 772-16:2002

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Metode preskušanja zidakov - 16. del: Določevanje mer

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 772-16:2011**

ICS:

91.100.15 Mineralni materiali in izdelki Mineral materials and products

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en,fr,de

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EUROPEAN STANDARD

EN 772-16

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2011

ICS 91.100.25

Supersedes EN 772-16:2000

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 25 December 2010.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Principle	4
4 Symbols	4
5 Apparatus	4
6 Preparation of specimens	5
6.1 Sampling	5
6.2 Surface treatment	5
7 Procedure	5
7.1 Length, width and height	5
7.2 Thickness of shells and webs.....	9
7.3 Depth of holes	9
7.4 Plane parallelism of the bed faces	9
7.5 Combined thickness of webs and shells.....	9
8 Calculation and expression of results.....	10
9 Test report	10
Annex A (informative) Examples of paths chosen for the measurement of combined thickness	12
Annex B (informative) Significant technical changes between this European standard and the previous edition	15

Foreword

This document (EN 772-16:2011) 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 772-16:2000.

Annex B provides details of significant technical changes between this European Standard and the previous edition.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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EN 772-16:2011 (E)**1 Scope**

This European Standard specifies a method of determining the overall dimensions, thickness and combined thickness of shells and webs, depth of voids and plane parallelism of the bed faces of masonry units.

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*

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3 Principle

After preparation, the length, width and height of the specimens, the thickness of shells and webs, depth of holes and plane parallelism of bed faces are measured with an appropriate device.

4 Symbols

l_u is the length of the masonry unit defined by its intended orientation in use, (mm);

w_u is the width of the masonry unit defined by its intended orientation in use, (mm);

h_u is the height of the masonry unit defined by its intended orientation in use, (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 mm	Maximum measuring error mm
< 1	0,1
1	0,2
> 1	0,5

If the tolerance class of the dimension being measured is not known then the maximum measuring error of the measuring device shall be not more than 0,1 mm.

The device used for measuring the thickness of webs and shells shall have a jaw of at least 10 mm in length.

6 Preparation of specimens

6.1 Sampling

The method of sampling shall be in accordance with the relevant part of EN 771. The minimum number of specimens shall be six except in the determination of combined thickness and plane parallelism, where it is three, 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. Before measurement of the thickness of webs and shells the bed face of the unit should be ground to remove any such material.

7 Procedure

7.1 Length, width and height

For clay, aggregate concrete, autoclaved aerated concrete, manufactured stone and natural stone masonry units determine the length (l_u), the width (w_u) and the height (h_u) using procedure a), procedure b) or procedure c) as is relevant.

- a) Two measurements taken near the edges of each specimen at the positions shown in Figure 1 a).

If two of the three following conditions are satisfied $l_u \leq 250$ mm, $w_u \leq 125$ mm, $h_u \leq 100$ mm, use procedure b).

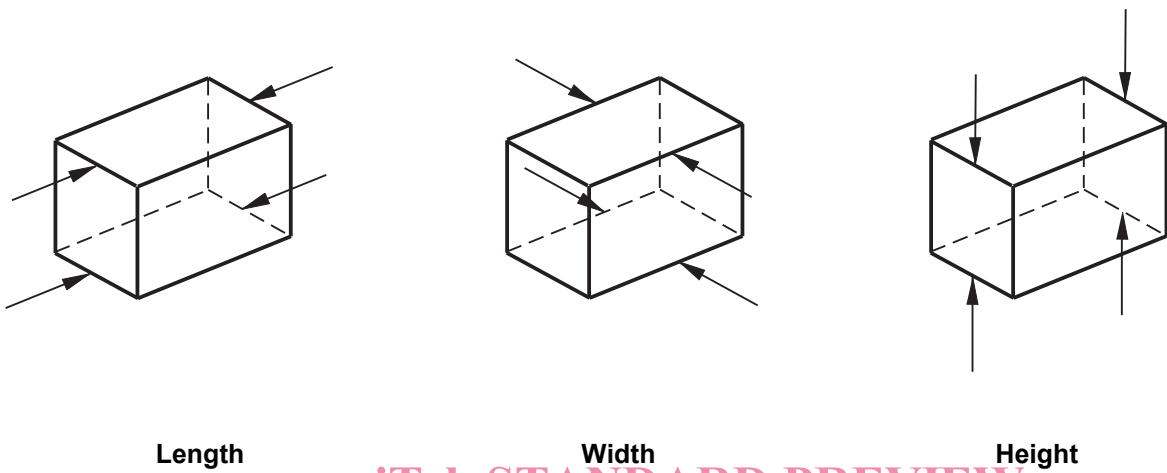
- b) One measurement at the mid point of the unit as shown in Figure 1 b) using a calliper with overlapping jaws aligned along the dotted line.
- c) For specimens having irregular surfaces (tongues and grooves, grip holes, rendering keyways, etc.) determine the length, width and height at the positions shown in Figure 1 c).

For calcium silicate masonry units determine the length (l_u), the width (w_u) and the height (h_u) using

EN 772-16:2011 (E)

procedure (d) or procedure (e) as is relevant.

- d) One measurement taken approximately at the centre of each specimen at the positions shown in Figure 1(d).
- e) For specimens having irregular surfaces (tongues and grooves, grip holes, rendering keyways, etc. determine the length, width and height at the positions shown in Figure 1 e).



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Figure 1 a) - Measurement positions

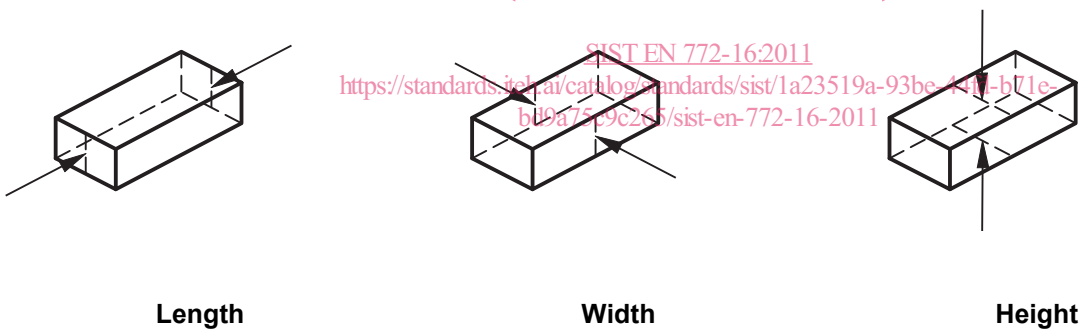


Figure 1b) - Measurement positions

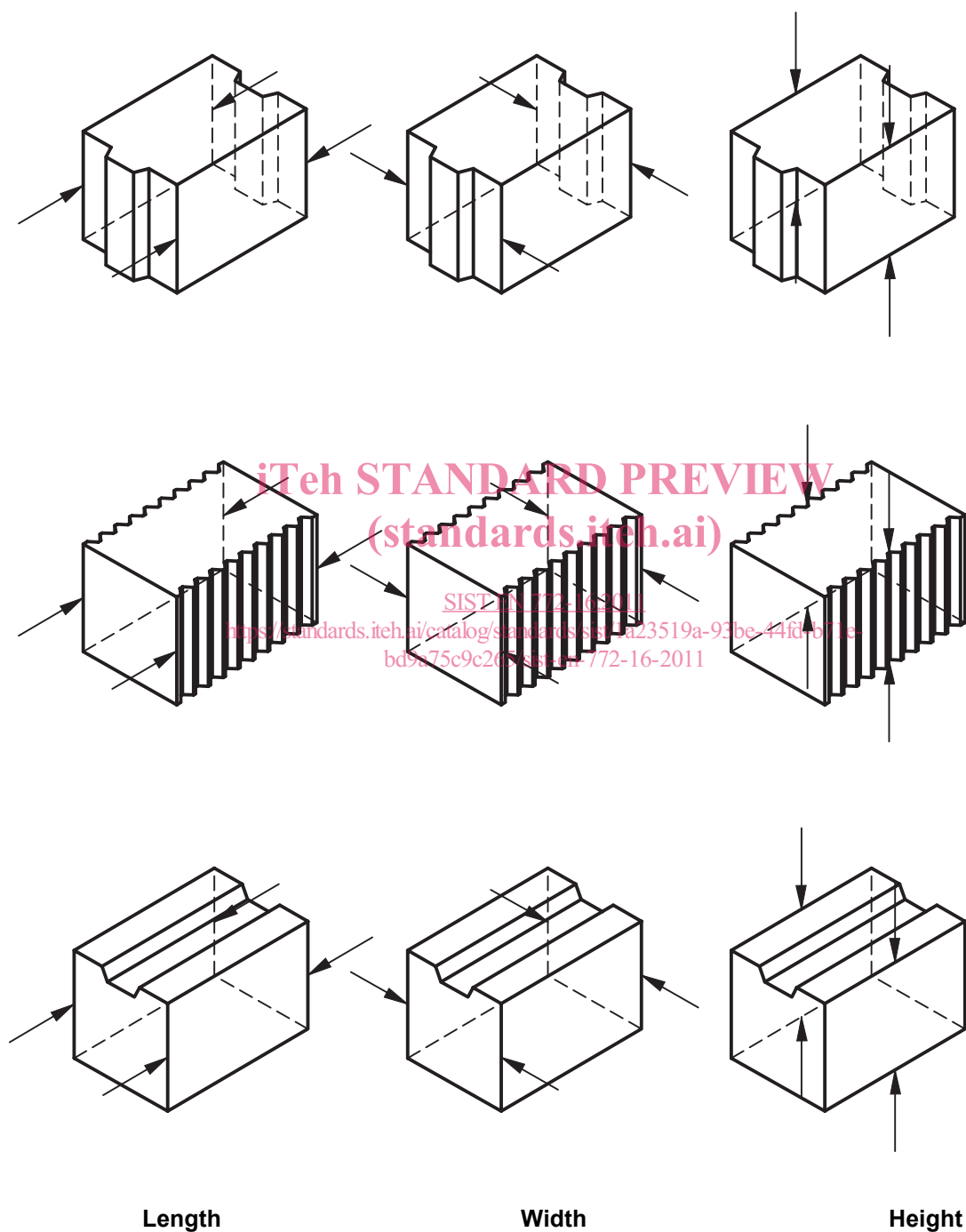


Figure 1 c) - Measurement positions