SLOVENSKI STANDARD
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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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ICS:

91.100.15	Mineralni materiali in izdelki	Mineral materials and products

SIST EN 772-16:2011 **en,fr,de**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

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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.

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

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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of an identical text or by endorsement, at the latest by November 2011, and conflicting national standards shall be withdrawn at the latest by November 2011.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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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.

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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.

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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.

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6.2 Surface treatment

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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).

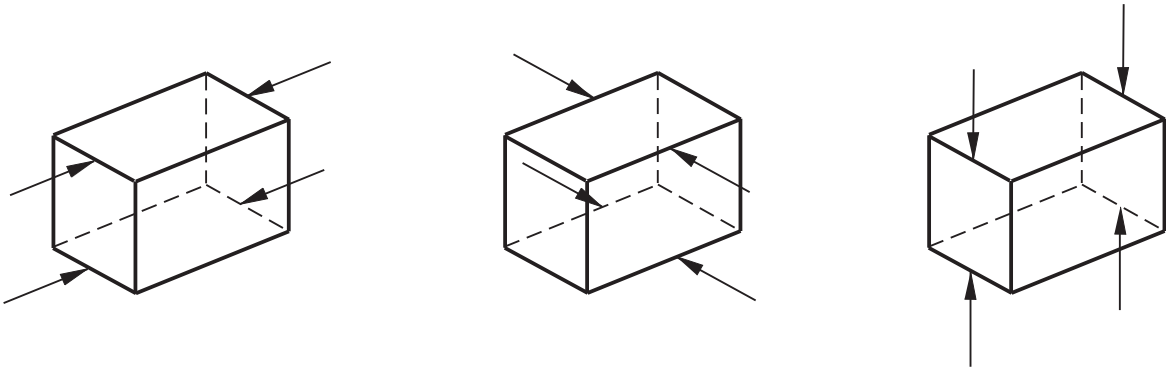
For calcium silicate masonry units determine the length (l_u), the width (w_u) and the height (h_u) using

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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).

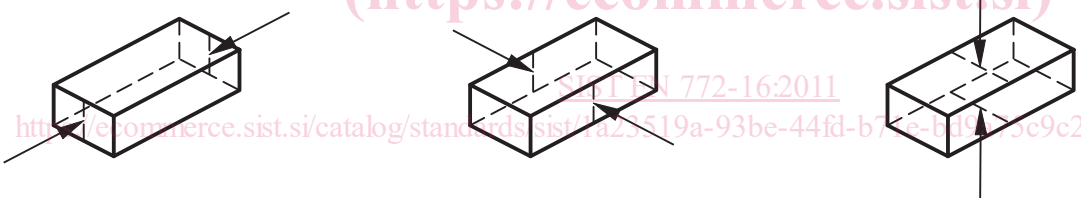
e) For specimens having irregular surfaces (tongues and grooves, grip holes, rendering keyways, etc. determine the length, width and height at the positions shown in Figure 1 e).



Length **Width** **Height**

Figure 1 a) - Measurement positions

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Length **Width** **Height**

Figure 1b) - Measurement positions

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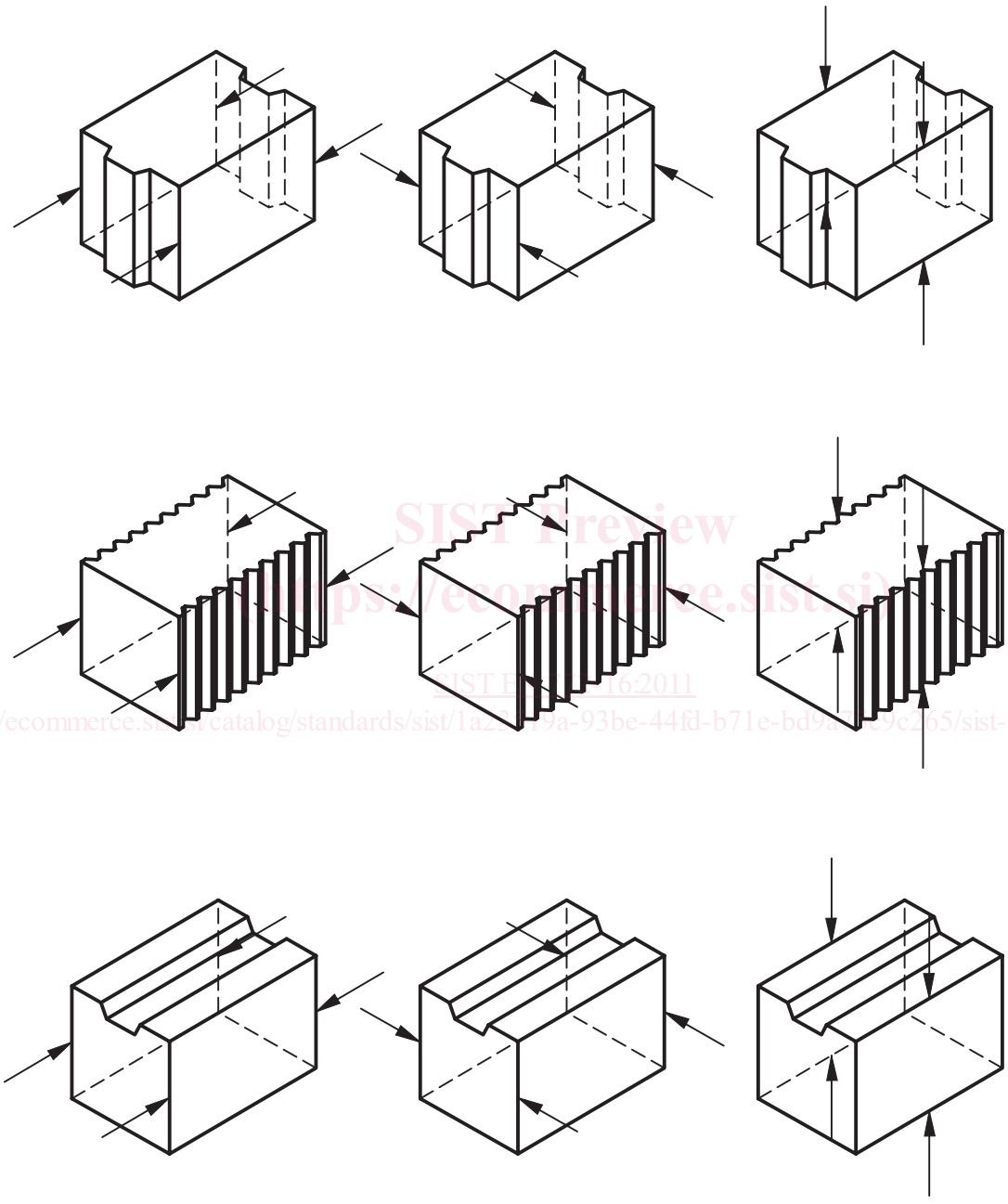
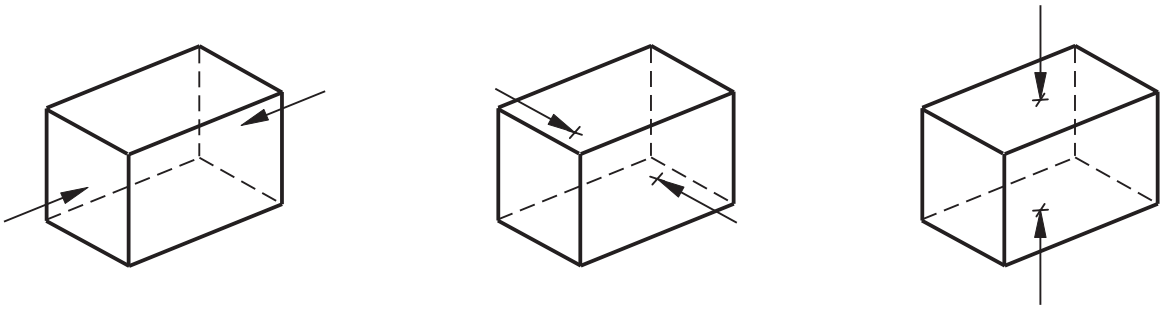


Figure 1 c) - Measurement positions

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Length Width Height

Figure 1 d) - Measurement Positions

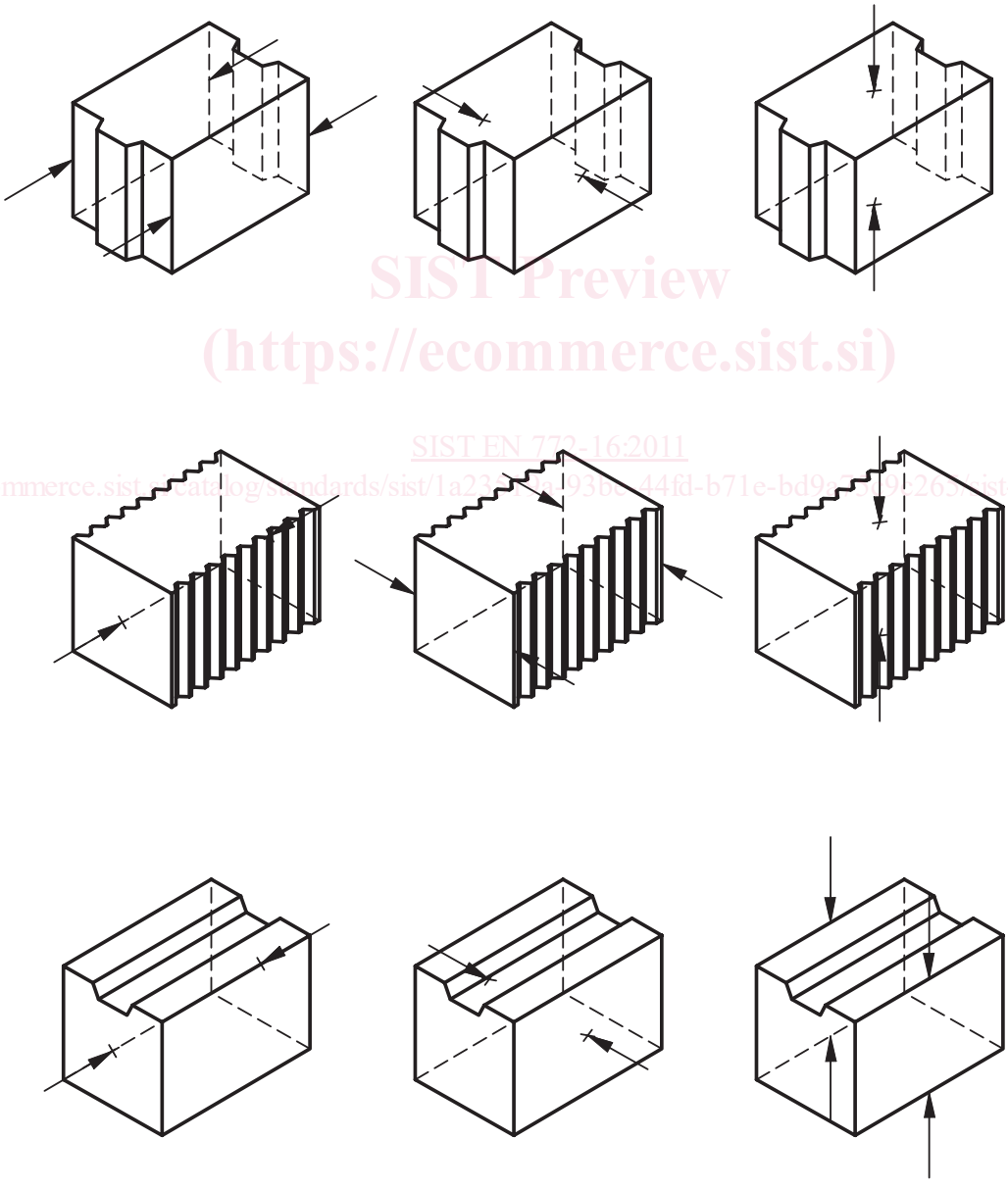


Figure 1 e) - Measurement Positions

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