



SLOVENSKI STANDARD
SIST EN 771-3:2004/A1:2005
01-april-2005

Specifikacija za zidake – 3. del: Betonski zidaki (kompaktni in lahki agregati)

Specification for masonry units - Part 3: Aggregate concrete masonry units (Dense and light-weight aggregates)

Festlegungen für Mauersteine - Teil 3: Mauersteine aus Beton (mit dichten und porigen Zuschlägen)

Spécifications pour éléments de maçonnerie - Partie 3 : Éléments de maçonnerie en béton de granulats (granulats courants et légers)

Ta slovenski standard je istoveten z: EN 771-3:2003/A1:2005

ICS:

91.100.30

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en

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ICS 91.100.30

English version

Specification for masonry units - Part 3: Aggregate concrete
masonry units (Dense and light-weight aggregates)

Spécifications pour éléments de maçonnerie - Partie 3 :
Éléments de maçonnerie en béton de granulats (granulats
courants et légers)

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Beton (mit dichten und porigen Zuschlägen)

This amendment A1 modifies the European Standard EN 771-3:2003; it was approved by CEN on 29 December 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant 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 amendment 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This document (EN 771-3:2003/A1:2005) has been prepared by Technical Committee CEN/TC 125 "Masonry", the Secretariat of which is held by BSI.

This Amendment to the European Standard EN 771-3:2003 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2005, and conflicting national standards shall be withdrawn at the latest by August 2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see modifications to informative Annex ZA, which is an integral part of this document.

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

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1 Modification in Normative references

Make the references to ENs 772-1 and -16 undated by deleting the date "2000" in both cases. Make the reference to EN 998-2 undated by deleting the date "2001".

Amend the following reference titles:

"EN 772-2, Methods of test for masonry units — Part 2: Determination of percentage area of voids in masonry units (by paper indentation)

EN 772-20, Methods of test for masonry units — Part 20: Determination of flatness of faces of masonry units

Add the following references:

EN 1996-1-1, Eurocode 6: Design of masonry structures — Part 1-1: Common rules for reinforced and unreinforced masonry structures

2 New 3.17 web

Add a new definition as 3.1.17 (and re-number existing definition "declared value" as 3.1.18 and the rest of the definitions accordingly):

"3.1.17
web

solid material between the formed voids in a masonry unit"

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3 Modification in 3.1.20 normalized compressive strength of masonry units

Delete existing term and substitute:

"normalized compressive strength of masonry units"

4 New 3.1.24 combined thickness of webs and shells

Add the following new definition:

"3.1.24

combined thickness of webs and shells

The sum of the thicknesses of the shells and webs from one face or header of a masonry unit to the opposite face or header respectively along whichever path, via the formed voids, gives the smallest value, expressed as a percentage of the unit width or length respectively.

5 Modification in 5.2.2 Tolerances

Modify subclause title and insert new subclause heading immediately below as follows:

"5.2.2 Dimensional tolerances

5.2.2.1 Tolerances"

6 Modification in Table 1 — Limit deviations in millimetres

Add a new 5th column as follows:

D4
+1
-3
+1
-3
+/- 1,0

7 New 5.2.2.2 Flatness of bed faces

Add the following new sub-clause:

"5.2.2.2 Flatness of bed faces

When aggregate concrete masonry units are declared as tolerance category D4 for use with thin layer mortar, the manufacturer shall also declare the maximum deviation from flatness of the bed faces.

If sampled in accordance with Clause A.2 and tested in accordance with EN 772-20, the deviation from flatness of the bed faces shall not exceed the declared value."

8 New 5.2.2.3 Plane parallelism of bed faces

Add the following new subclause:

"5.2.2.3 Plane parallelism of bed faces

When aggregate concrete masonry units are declared as tolerance category D4 for use with thin layer mortar, the manufacturer shall also declare the maximum deviation from plane parallelism of the bed faces.

If sampled in accordance with Clause A.2 and tested in accordance with EN 772-16 method **d)**, the deviation from plane parallelism of the bed faces shall not exceed the declared value."

9 Modification in 5.3 Configuration

Amend title to "5.3 Configuration and appearance"

10 Modification in 5.3.1 General

Delete subclause and substitute the following:

5.3.1 Configuration

When relevant to the uses for which aggregate concrete masonry units are put on the market, the configuration shall be declared. The declaration may be made by reference to one or another of the groups defined in EN 1996-1-1 and/or it may include one or more items such as those in the following list, as relevant:

- shape and features, including the direction of any formed voids (by means of a drawing or illustration, when relevant);
- volume of all formed voids as a percentage of the length x width x height of the unit;
- volume of the largest of any formed voids as a percentage of the length x width x height of the unit;
- volume of grip holes as a percentage of the length x width x height of the unit;
- thickness of webs;
- thickness of shells;
- combined thickness of webs and shells from face to face;
- combined thickness of webs and shells from header to header;
- area of voids on a bed face as a percentage of the length x width of the unit.

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The requirements for shape and features given in will normally apply to regular shaped units but need not apply to the surfaces or arises of units with special shapes or to accessory units.

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Units may be provided with recesses or interlocking features and with sharp, rounded or chamfered arises.

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The total volume of frogs shall not exceed 20 % of the overall volume of the unit, i.e. length × width × height.

Each declared value shall be stated as either an upper limit or a lower limit or as a range of values. When aggregate concrete masonry units are sampled from a consignment in accordance with Clause A2 and tested in accordance with EN 772-16 and EN 772-2, if necessary, the mean value derived from measurements of the test sample shall be within the range or limit declared."

Delete subclauses 5.3.2, 5.3.3 and 5.3.4.

11 Modification in 5.3.5 Flatness of surfaces of facing units

Delete subclause number and title and substitute the following:

5.3.2 Appearance

5.3.2.1 Flatness of surfaces of facing units"

In the first line of the subclause delete "plain" and substitute "plane".

Renumber "5.3.6 Surface appearance of facing units" as 5.3.2.2.

12 Modification in 5.4.1 Gross dry density of the units

In the NOTE delete the second indent "—" (between 'loading' and 'airborne sound insulation' and which has no text alongside it).

Add new final paragraph:

"In addition, the manufacturer may declare the minimum and maximum individual values of gross dry density."

13 Modification in 5.4.2 Net dry density of the concrete

Delete the existing paragraph and substitute the following paragraphs:

"When relevant to the uses for which the unit is put on the market, the manufacturer shall declare the net dry density of the concrete units in kg/m³.

In addition, the manufacturer may declare the minimum and maximum individual values of net dry density."

14 Modification in 5.5.1.1 General

In the 2nd line, delete "see 3.1.17" and substitute "3.1.18".

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15 Modification in 5.6 Thermal properties

In the final line, delete "5.3" and substitute "5.3.1".

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16 Modification in 5.8 Water absorption by capillarity

In the second paragraph, delete "Clause B.1" and substitute "Clause B.5".

17 Modification in 5.9 Moisture movement

In the second paragraph, delete "Figure B.2" and substitute "Clause B.5".

18 Modification in 6.1 Description and designation of units

Delete d).

Re-label existing e) as d).

Insert new "e) the configuration and appearance (see 5.3);"

Delete "i) the surface of facing units (see 5.3.6)".

Relabel existing j), k) and l) as i), j) and k) respectively.