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SLOVENSKI STANDARD
SIST EN 771-4:2004/A1:2005
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Specification for masonry units - Part 4: Autoclaved aerated concrete masonry units

Festlegungen für Mauersteine - Teil 4: Porenbetonsteine

Spécifications pour éléments de maçonnerie - Partie 4 : Éléments de maçonnerie en
béton cellulaire autoclavé

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EUROPEAN STANDARD

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English version

Specification for masonry units - Part 4: Autoclaved aerated concrete masonry units

Spécifications pour éléments de maçonnerie - Partie 4 :
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This amendment A1 modifies the European Standard EN 771-4:2003; 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.

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

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Contents

Foreword

This document (EN 771-4:2003/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 771-4:2003 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of an identical text or by endorsement, at the latest by August 2005, and conflicting national standards shall be withdrawn at the latest by August 2005.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.

1   Modification in Normative references

Make the reference to EN 772-1 undated by deleting the date "2000" and the reference to EN 998-2 undated by deleting the date "2001".

Add the following references:

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

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

2   Modification in Table 2 Limit deviations for regular shaped units

Delete existing Table 2 and substitute:

Table 2 – Limit deviations for regular shaped units (in millimetres)

Dimensions	AAC units for erection with joints made of:		
	General purpose and lightweight mortar	Thin layer mortar	
	GPLM	TLMA	TLMB
Length	+3 -5	± 3	± 1,5
Height	+3 -5	±2	± 1,0
Width	± 3	± 2	± 1,5
Flatness of bed faces	No requirement	No requirement	≤ 1,0
Plane parallelism of bed faces	No requirement	No requirement	≤ 1,0

3   New 5.2.2.2 Flatness of bed faces

Renumber existing subclause 5.2.2.2 'Permissible deviations for other shaped units' as 5.2.2.4 and add the following new subclause:

"**5.2.2.2 Flatness of bed faces**

When AAC masonry units category TLMB, intended for use with thin layer mortar, are sampled in accordance with Annex A and tested in accordance with EN 772-20, the deviation from flatness of the bed faces shall not exceed the values given in Table 2."

4   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 AAC masonry units category TLMB, intended for use with thin layer mortar, are sampled in accordance with Annex A and tested in accordance with EN 772-16 by procedure **d)**, the deviation from plane parallelism shall not exceed the values given in Table 2."

5   Modification in 5.3 Configuration

Delete "Note 2 The manufacturer……..Eurocode 6" and substitute the following:

"Units intended for use in elements subject to structural requirements shall have not more than 25 % volume of all formed voids as a percentage of the length x width x height of the unit and the volume of the largest of any formed voids shall not exceed 12,5 %. They shall be declared as Group 1 structural units.

NOTE   They are Group 1 masonry units for the purposes of EN 1996-1-1.

When relevant to the uses for which the unit is put on the market, the area of voids on a bed face as a percentage of the length x width of the unit shall be declared.

When conformity with these configuration requirements cannot be assessed by visual inspection, masonry units shall be sampled in accordance with Clause A.2, measured in accordance with EN 772-16 and the values calculated."

6   Modification in 5.4.1 Gross dry density

Add new final paragraph:

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

7   Modification in 5.4.2 Net dry density

Delete the first sentence of the first paragraph and substitute:

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

Add new final paragraph:

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

8   Modification in 6.1 Description and designation

Insert new item c):

"c) configuration including shape and features and if the unit is Group 1 structural (see 5.3);"

Change subsequent labels c) . . . . i) to d) . . . . j)

9   Modification in Table A.1 Number of units required for a test

Insert the following two rows below the first row "Dimensions . . .":

| Flatness of bed faces | 5.2.2.2 | EN 772-20 | 3 |
| Plane parallelism of bed faces | 5.2.2.3 | EN 772-16 | 3 |

10   Modification in Annex B

In subclause B.1 delete the whole of NOTE 2 and change "NOTE 1" to "NOTE".

11   Modification in Table ZA.1 — Scope and relevant clauses

Add the following two rows at the top of the Table:

| Dimensions and dimensional tolerances (for units intended to be used in elements subject to structural requirements) | 5.2.1 Dimensions 5.2.2 Tolerances | None | Declared values, in mm, and tolerance category |
| Configuration (for units intended to be used in elements subject to structural requirements) | 5.3 Configuration | None | Declared configuration as illustrated or described |

Delete the last row of the Table ZA.1 containing the footnote and delete the corresponding labels, "a" , in the last column of the Table on the 4th and 8th rows.

12 Modification in Figure ZA.1 — Examples of CE Marking information

Add the following at the start of the list of information (above "Compressive strength: mean . . . ")

"**Dimensions:** length (mm), width (mm), height (mm)
Dimensional tolerances:
          Category: GPLM
Configuration: As in attached drawing (Group 1 structural)"

In the line for "Compressive strength" delete "(⊥ bedface)" and substitute "(⊥ bedface, whole unit.)"

Indent "Gross density" and "Configuration" in the 5th and 4th lines from the bottom of the list and change "Gross density" to "Gross dry density"