

**DIN EN 771-4****DIN**

ICS 91.100.30

Supersedes  
DIN EN 771-4:2011-07  
See start of application**Specification for masonry units –  
Part 4: Autoclaved aerated concrete masonry units;  
English version EN 771-4:2011+A1:2015,  
English translation of DIN EN 771-4:2015-11**

Festlegungen für Mauersteine –  
Teil 4: Porenbetonsteine;  
Englische Fassung EN 771-4:2011+A1:2015,  
Englische Übersetzung von DIN EN 771-4:2015-11

Spécifications pour éléments de maçonnerie –  
Partie 4: Eléments de maçonnerie en béton cellulaire autoclavé;  
Version anglaise EN 771-4:2011+A1:2015,  
Traduction anglaise de DIN EN 771-4:2015-11

Document comprises 37 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

*A comma is used as the decimal marker.*

## **Start of application**

It should be noted that, in Germany, CE conformity marking of construction products will be permitted once this standard has been listed in the Official Journal of the European Union and/or the *Bundesanzeiger* (German Federal Gazette) and from the date given therein.

For further information, users of this standard should refer to the websites of the European Commission or of the relevant building authority.

The standard which this document replaces, DIN EN 771-4:2011-07, may be used in parallel with this standard during a specified transition period where such has been laid down in the Official Journal of the European Union and/or the *Bundesanzeiger* (German Federal Gazette).

## **National foreword**

This document (EN 771-4:2011+A1:2015) has been prepared by Technical Committee CEN/TC 125 "Masonry" (Secretariat: BSI, United Kingdom).

The responsible German body involved in its preparation was *DIN-Normenausschuss Bauwesen* (DIN Standards Committee Building and Civil Engineering), Working Committee NA 005-06-02 AA *Koordinierungsausschuss Mauersteine* (*SpA zu CEN/TC 125/WG 1*).

## **Amendments**

This standard differs from DIN EN 771-4:2011-07 as follows:

- a) the entire document has been editorially revised;
- b) Annex ZA has been completely revised.

## **Previous editions**

DIN 4165: 1959-02, 1973-12, 1982-09, 1986-12, 1996-11

DIN V 4165: 2003-06

DIN EN 771-4: 2000-08, 2003-10, 2005-05, 2011-07

August 2015

ICS 91.100.30

Supersedes EN 771-4:2011

English Version

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

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

Festlegungen für Mauersteine - Teil 4: Porenbetonsteine

This European Standard was approved by CEN on 17 March 2011 and includes Amendment 1 approved by CEN on 11 January 2015.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

## Contents

	Page
<b>European foreword .....</b>	<b>4</b>
<b>1 Scope .....</b>	<b>5</b>
<b>2 Normative references .....</b>	<b>5</b>
<b>3 Terms and definitions .....</b>	<b>6</b>
<b>4 Materials and manufacture .....</b>	<b>8</b>
<b>4.1 General.....</b>	<b>8</b>
<b>4.2 Materials of manufacture .....</b>	<b>8</b>
<b>5 Requirements for AAC masonry units .....</b>	<b>8</b>
<b>5.1 General.....</b>	<b>8</b>
<b>5.2 Dimensions and tolerances .....</b>	<b>8</b>
<b>5.2.1 Dimensions.....</b>	<b>8</b>
<b>5.2.2 Tolerances .....</b>	<b>9</b>
<b>5.3 Configuration .....</b>	<b>10</b>
<b>5.4 Density .....</b>	<b>11</b>
<b>5.4.1 Gross dry density .....</b>	<b>11</b>
<b>5.4.2 Net dry density .....</b>	<b>11</b>
<b>5.4.3 Limit deviations.....</b>	<b>12</b>
<b>5.5 Compressive strength.....</b>	<b>12</b>
<b>5.6 Thermal properties .....</b>	<b>12</b>
<b>5.7 Durability .....</b>	<b>12</b>
<b>5.8 Moisture movement .....</b>	<b>13</b>
<b>5.9 Water vapour permeability.....</b>	<b>13</b>
<b>5.10 Water absorption .....</b>	<b>13</b>
<b>5.11 Reaction to fire .....</b>	<b>13</b>
<b>5.12 Shear bond strength.....</b>	<b>13</b>
<b>5.12.1 General.....</b>	<b>13</b>
<b>5.12.2 Declaration based on fixed values.....</b>	<b>14</b>
<b>5.12.3 Declaration based on tests .....</b>	<b>14</b>
<b>5.13 Flexural bond strength .....</b>	<b>14</b>
<b>5.14 Dangerous substances .....</b>	<b>14</b>
<b>6 Description, designation and classification of AAC masonry units .....</b>	<b>14</b>
<b>6.1 Description and designation .....</b>	<b>14</b>
<b>6.2 Classification.....</b>	<b>15</b>
<b>7 Marking .....</b>	<b>15</b>
<b>8 <span style="color: #0000ff;">A1</span> Assessment and verification of constancy of performance (AVCP) <span style="color: #0000ff;">A1</span> .....</b>	<b>15</b>
<b>8.1 General.....</b>	<b>15</b>
<b>8.2 Product type determination .....</b>	<b>16</b>
<b>8.3 Factory production control.....</b>	<b>17</b>
<b>8.3.1 General.....</b>	<b>17</b>
<b>8.3.2 Testing and measuring equipment .....</b>	<b>17</b>
<b>8.3.3 Production equipment.....</b>	<b>17</b>
<b>8.3.4 Raw materials .....</b>	<b>17</b>
<b>8.3.5 Production process .....</b>	<b>17</b>
<b>8.3.6 Finished product testing .....</b>	<b>18</b>
<b>8.3.7 Statistical techniques .....</b>	<b>18</b>
<b>8.3.8 Marking and stock control of products .....</b>	<b>18</b>