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BSI Standards Publication

Prefabricated reinforced components of autoclaved aerated concrete

National foreword

This British Standard is the UK implementation of EN 12602:2016. It supersedes BS EN 12602:2008+A1:2013 which is withdrawn.

National Annex NA provides the nationally determined parameters on prefabricated reinforced components of autoclaved aerated concrete.

The UK participation in its preparation was entrusted to Technical Committee B/523, Prefabricated components of reinforced autoclaved aerated concrete and lightweight aggregate concrete with open structure.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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English Version

Prefabricated reinforced components of autoclaved aerated concrete

Éléments préfabriqués armés en béton cellulaire autoclavé

Vorgefertigte bewehrte Bauteile aus dampfgehärtetem Porenbeton

This European Standard was approved by CEN on 4 June 2016.

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.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 12602:2016) has been prepared by Technical Committee CEN/TC 177 “Prefabricated reinforced components of autoclaved aerated concrete or light-weight aggregate concrete with open structure”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by March 2017, and conflicting national standards shall be withdrawn at the latest by June 2018.

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

This document supersedes EN 12602:2008+A1:2013.

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 Regulation (s).

For relationship with Regulation (EU) No. 305/2011, see informative Annex ZA, which is an integral part of this document.

This document uses the methods given in the Guidance paper L, Clause 3.3, of the European Commission.

This European Standard is used together with a national application document. The national application document may only contain information on those parameters which are left open in this European Standard for national choice, known as Nationally Determined Parameters, to be used for the design of the construction products and civil engineering works to be constructed in the country concerned, i.e.:

— values and/or classes where alternatives are given in this European Standard,

— values to be used where a symbol only is given in this European Standard,

— country specific data (geographical, climatic, etc.), e.g. snow map,

— procedure to be used where alternative procedures are given in this European Standard.

— decisions on the application of informative annexes,

— references to non-contradictory complementary information to assist the user to apply this European Standard:

4.2.2.4	A.8
5.1.4	A.9.4.1
5.3.4	A.10.2.2
A.3.2	A.10.3
A.3.3	B.3.2.2
A.4.1.2	B.3.3.2
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A.4.1.3.2	Annex D
A.4.1.3.3	

A.5.2

A.5.3.3.3 (3)

A.6.3

A.7

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: 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 the United Kingdom.

1 Scope

This European Standard is for prefabricated reinforced components of autoclaved aerated concrete to be used in building construction for:

a) Structural elements:

- loadbearing wall components;
- retaining wall components;
- roof components;
- floor components;
- linear components (beams and piers).

b) Non-structural elements:

- non-loadbearing wall components (partition walls);
- cladding components (without fixtures) intended to be used for external facades of buildings;
- small box culverts used to form channels for the enclosure of services;
- components for noise barriers.

Depending on the type and intended use of elements for which the components are utilized, the components can be applied – in addition to their loadbearing and encasing function – for purposes of fire resistance, sound insulation and thermal insulation indicated in the relevant clauses of this European Standard.

Components covered by this standard are only intended to be subjected to predominantly non-dynamic actions, unless special measures are introduced in the relevant clauses of this European Standard.

The term “reinforced” relates to reinforcement used for both structural and non-structural purposes.

This European Standard does not cover:

- rules for the application of these components in structures;
- joints (except their strength and integrity E of resistance to fire);
- fixtures;
- finishes for external components, such as tiling.

NOTE AAC components may be used in noise barriers if they are designed to fulfil also the requirements of EN 14388.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 678, *Determination of the dry density of autoclaved aerated concrete*

EN 679, *Determination of the compressive strength of autoclaved aerated concrete*