

# Chimneys — Components — Concrete flue blocks

ICS 91.060.40; 91.100.30

## National foreword

This British Standard is the UK implementation of EN 1858:2008+A1:2011. It supersedes BS EN 1858:2008 which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by **A1**  **A1**.

The UK participation in its preparation was entrusted to Technical Committee B/506/4, Chimneys and their components having inner linings of concrete.

National annex NA (informative), clauses NA.1 to NA.5, give recommendations for design and construction of Type B, concrete flue block systems for gas appliances in the UK. Clause NA.6 gives examples of abbreviated designations used in the UK for common types of concrete flue blocks.

NOTE Following the revision of Approved Document J to the Building Regulations in October 2010, bonding blocks for gas fire installation - Radiant/convector, ILFE or DFE require the designation T300, N2, O, D, 1.

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.

**Compliance with a British Standard cannot confer immunity from legal obligations.**

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 January 2010

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### Amendments/corrigenda issued since publication

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30 September 2011	Implementation of CEN amendment A1:2011

English Version

## Chimneys - Components - Concrete flue blocks

Conduits de fumée - Composants - Conduits de fumée  
simple et multiparois en béton

Abgasanlagen - Bauteile - Betonformblöcke

This European Standard was approved by CEN on 1 November 2008 and includes Amendment 1 approved by CEN on 14 May 2011.

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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## Foreword

This document (EN 1858:2008+A1:2011) has been prepared by Technical Committee CEN/TC 166 “Chimneys”, the secretariat of which is held by  ASI .

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 December 2011, and conflicting national standards shall be withdrawn at the latest by March 2013.

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.

For the relationship with the EU Directives, see informative Annex ZA, which is an integral part of this standard.

In this European Standard, the Annexes A, C and D are normative (not forming part of the product specification) and Annexes E and ZA are informative.

This document includes Amendment 1 approved by CEN on 14 May 2011.

The start and finish of text introduced or altered by amendment is indicated in the text by tags  .

This document supersedes  EN 1858:2008 .

This Standard is one of a series of co-ordinated standards dealing with specification, design, testing and installation of chimneys, both single and multi wall.

The co-ordinated package of standards is further divided by material of construction and this European Standard is one of a series of specifications and execution documents dealing with design and installation of concrete chimney products and systems.

The standards in this series for concrete chimney products and systems are:

EN 1857, *Chimneys — Components — Concrete flue liners*;

EN 1858, *Chimneys — Components — Concrete flue blocks*;

EN 12446, *Chimneys — Components — Concrete outer wall elements*.

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.

## 1 Scope

This European Standard specifies the materials, dimensional and performance requirements for precast concrete flue blocks as defined in Clause 3 for use in ~~EN 1858:2008+A1:2011~~ chimneys. The flue blocks may be of single wall or multi wall construction. The standard does not apply to flue blocks with back ventilation.

This standard does not cover products designated wet (W) in conjunction with corrosion class 3.

The standard also specifies a type of flue block to dimensionally co-ordinate with masonry unit coursing height, referred to as a type B (Bonding block).

This European Standard also applies to storey-height and flue blocks reinforced for handling.

NOTE Any reference to the term flue blocks implies both flue blocks and their fittings, except where otherwise indicated.

## 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 206-1: 2000, *Concrete — Part 1: Specification, performance, production and conformity*

EN 1443, *Chimneys — General requirements*

EN 10088-2, *Stainless steel — Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes*

EN 13216-1, *Chimneys — Test methods for system chimneys — Part 1: General test methods*

EN 13384-1, *Chimneys — Thermal and fluid dynamic calculation methods — Part 1: Chimneys serving one appliance*

EN 14297: 2004, *Chimneys — Freeze-thaw resistance test method for chimney products*

EN ISO 7500-1:2004, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension/compression testing machines* ~~EN 1858:2008+A1:2011~~ (ISO 7500-1:2004) ~~EN 1858:2008+A1:2011~~

ISO 2859-1:1999, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

## 3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 1443 and the following apply.

### 3.1

#### **flue block fitting**

element fitted to the flue block such as an access opening or offset