



NSAI
Standards

Irish Standard
I.S. EN 16497-2:2017

Chimneys - Concrete System Chimneys - Part 2: Balanced flue applications

I.S. EN 16497-2:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

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This document is based on:

EN 16497-2:2017

Published:

2017-03-08

This document was published under the authority of the NSAI and comes into effect on:

2017-03-26

ICS number:

91.060.40

NOTE: If blank see CEN/CENELEC cover page

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National Foreword

I.S. EN 16497-2:2017 is the adopted Irish version of the European Document EN 16497-2:2017, Chimneys - Concrete System Chimneys - Part 2: Balanced flue applications

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EUROPEAN STANDARD

EN 16497-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2017

ICS 91.060.40

English Version

Chimneys - Concrete System Chimneys - Part 2: Balanced flue applications

Conduits de fumée - Conduits-Systèmes de fumée en
béton - Partie 2: Applications équilibrées

Abgasanlagen - System-Abgasanlagen aus Beton - Teil
2: Luft-Abgas-Anlagen

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EN 16497-2:2017 (E)**European foreword**

This document (EN 16497-2:2017) 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of an identical text or by endorsement, at the latest by September 2017, and conflicting national standards shall be withdrawn at the latest by December 2018.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 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 Regulation, see informative Annex ZA, which is an integral part of this document.

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 standard is one of a series of coordinated standards dealing with specification, design, and testing of chimneys, both single and multi wall.

The coordinated 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*.

EN 16497-1, *Chimneys — Concrete system chimneys — Part 1: Non-balanced flue applications*

EN 16497-2, *Chimneys — Concrete system chimneys — Part 2: Balanced flue applications*

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

1 Scope

This European Standard specifies the materials, dimensional and performance requirements for straight concrete system chimneys for balanced flue applications comprising a concrete flue liner and a combustion air supply duct, and a combination of compatible chimney components, which may be concrete flue blocks (see Clause 4), obtained or specified from one manufacturing source with product responsibility for the whole chimney.

The European Standard does not apply to concrete system chimneys with back ventilation.

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

This European Standard also applies to concrete system chimneys constructed from storey-height elements and flue blocks reinforced for handling.

This European Standard does not apply to structurally independent (free standing or self-supporting) system chimneys.

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

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 206:2013+A1:2016, *Concrete — Specification, performance, production and conformity*

EN 1443, *Chimneys — General requirements*

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 heating appliance*

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

CEN/TS 16134:2011, *Chimney terminals — General requirements and material independent test methods*

EN ISO 7500-1:2015, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system (ISO 7500-1:2015)*

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 document, 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

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