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Standards

Irish Standard
I.S. EN 1857:2010

Chimneys - Components - Concrete flue liners

I.S. EN 1857:2010

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<i>This document replaces:</i> EN 1857:2003+A1:2008	<i>This document is based on:</i> EN 1857:2010 EN 1857:2003+A1:2008	<i>Published:</i> 14 April, 2010 27 February, 2008
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This document was published under the authority of the NSAI and comes into effect on: 10 May, 2010	ICS number: 91.060.40
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Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 1857

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2010

ICS 91.060.40

Supersedes EN 1857:2003+A1:2008

English Version

Chimneys - Components - Concrete flue liners

Conduits de fumée - Composants - Conduits intérieurs en béton

Abgasanlagen - Bauteile - Betoninnenrohre

This European Standard was approved by CEN on 20 February 2010.

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Foreword

This document (EN 1857:2010) has been prepared by Technical Committee CEN/TC 166 "Chimneys", the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by October 2010, and conflicting national standards shall be withdrawn at the latest by October 2010.

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.

This document supersedes EN 1857:2003+A1:2008.

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 informative Annex ZA, which is an integral part of this document.

This standard is one of a series of standards dealing with the specification, design, testing and execution of chimneys with concrete liners, 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 installation documents dealing with design and installation of concrete chimney products and systems.

The standards in this series for concrete chimney products are:

- EN 1857, *Chimneys — Components — Concrete flue liners*
- EN 1858, *Chimneys — Components — Concrete flue blocks*
- EN 12446, *Chimneys — Components — Concrete outer wall elements*

In this European Standard, Annexes A, C and D are normative and Annexes B, E, F and ZA are informative.

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 material, dimensional and performance requirements, including methods of test, for precast concrete flue liners and fittings with or without insulation for the construction of multi-wall chimneys.

This document does not cover:

- high positive pressure (H) designated products;
- products designated wet (W) in conjunction with corrosion class 3.

This document also applies to storey-height and flue liners reinforced only for handling.

NOTE 1 Any reference to the term flue liners implies both flue liners and their fittings, except where otherwise indicated.

NOTE 2 The pressure classes and corrosion classes are defined in EN 1443.

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 1443:2003, *Chimneys — General requirements*

EN 1859, *Chimneys — Metal chimneys — Test methods*

EN 10088-2:2005, *Stainless steels — Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes*

EN 10218-2, *Steel wire and wire products — General — Part 2: Wire dimensions and tolerances*

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

EN 13384-1:2002+A2:2008, *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 — Verification and calibration of the force-measuring system (ISO 7500-1:2004)*

ISO 2859-1, *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 1443:2003 and the following apply.



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