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Standards

Irish Standard  
I.S. EN 13084-7:2012

# Free-standing chimneys - Part 7: Product specifications of cylindrical steel fabrications for use in single wall steel chimneys and steel liners

## I.S. EN 13084-7:2012

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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English Version

## Free-standing chimneys - Part 7: Product specifications of cylindrical steel fabrications for use in single wall steel chimneys and steel liners

Cheminées autoportantes - Partie 7: Spécifications de produit applicables aux fabrications cylindriques en acier pour cheminées en acier à paroi simple et parois intérieures en acier

Freistehende Schornsteine - Teil 7: Produktfestlegungen für zylindrische Stahlbauteile zur Verwendung in einschaligen Stahlschornsteinen und Innenrohren aus Stahl

This European Standard was approved by CEN on 27 October 2012.

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## Foreword

This document (EN 13084-7:2012) has been prepared by Technical Committee CEN/TC 297 "Free-standing industrial chimneys", 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of an identical text or by endorsement, at the latest by June 2013, and conflicting national standards shall be withdrawn at the latest by June 2013.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.

This document supersedes EN 13084-7:2005.

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.

Compared with EN 13084-7:2005, the following changes have been made:

- a) Corrigendum of 2008 was incorporated;
- b) 6.2 was revised;
- c) 7.2.4 was revised.

This European Standard, EN 13084, *Free-standing chimneys*, consists of the following parts:

- *Part 1: General requirements;*
- *Part 2: Concrete chimneys;*
- *Part 4: Brick liners — Design and execution;*
- *Part 5: Material for brick liners — Product specifications;*
- *Part 6: Steel liners — Design and execution;*
- *Part 7: Product specifications of cylindrical steel fabrications for use in single wall steel chimneys and steel liners (the present document);*
- *Part 8: Design and execution of mast construction with satellite components.*

The following European Standard additionally applies:

- EN 1993-3-2, *Eurocode 3: Design of steel structures — Part 3-2: towers, masts and chimneys — Chimneys.*

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 deals with steel products for single wall steel chimneys and liners which are produced either in series or as single items. It is a product standard which specifies the performance requirements of cylindrical steel fabrications for use in single wall steel chimneys and steel liners for free-standing chimneys used to convey the flue gas to the outside atmosphere. It also specifies the requirements for insulation and cladding being part of the single wall steel chimney and liner. It provides for the evaluation of conformity of single wall steel chimneys and liners to this European Standard.

## 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 287-1, *Qualification test of welders — Fusion welding — Part 1: Steels*

EN 1090-2, *Execution of steel structures and aluminium structures — Part 2: Technical requirements for steel structures*

EN 1418, *Welding personnel — Approval testing of welding operators for fusion welding and resistance weld setters for fully mechanized and automatic welding of metallic materials*

EN 1993-1-6, *Eurocode 3 — Design of steel structures — Part 1-6: Strength and Stability of Shell Structures*

EN 1993-3-2, *Eurocode 3 — Design of steel structures — Part 3-2: Towers, masts and chimneys — Chimneys*

EN 10025-2, *Hot rolled products of structural steels — Part 2: Technical delivery conditions for non-alloy structural steels*

EN 10025-5, *Hot rolled products of structural steels — Part 5: Technical delivery conditions for structural steels with improved atmospheric corrosion resistance*

EN 10028-2, *Flat products made of steels for pressure purposes — Part 2: Non-alloy and alloy steels with specified elevated temperature properties*

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

EN 10095, *Heat resisting steels and nickel alloys*

EN 10204, *Metallic products — Types of inspection documents*

EN 13084-1:2007, *Free-standing chimneys — Part 1: General requirements*

EN 13084-6:2004, *Free-standing chimneys — Part 6: Steel liners — Design and execution*

EN ISO 5817, *Welding — Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) — Quality levels for imperfections (ISO 5817:2003, corrected version:2005, including Technical Corrigendum 1:2006)*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13084-1:2007 and EN 13084-6:2004 apply.

The single wall steel chimney and steel liner should be considered in the same way for design and requirements.

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