



SLOVENSKI STANDARD
oSIST prEN 13084-6:2024

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Prostostoječi dimniki - 6. del: Jeklene tuljave - Projektiranje in izvedba

Free-standing chimneys - Part 6: Steel liners - Design and execution

Freistehende Schornsteine - Teil 6: Innenrohre aus Stahl - Bemessung und Ausführung

Cheminées autoportantes - Partie 6: Parois intérieures en acier - Conception et mise en oeuvre

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English Version

Free-standing chimneys - Part 6: Steel liners - Design and execution

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Freistehende Schornsteine - Teil 6: Innenrohre aus Stahl - Bemessung und Ausführung

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 297.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Contents	Page
European foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Material	6
4.1 General	6
4.2 Steels	7
5 General design and construction requirements	7
5.1 General	7
5.2 Construction details	7
5.2.1 General	7
5.2.2 Supports and/or guides	8
5.2.3 Openings in liners	8
5.2.4 Drainage system	9
5.2.5 Seals, gaskets and jointing compounds	9
5.2.6 Expansion joints	9
5.2.7 Insulation	9
5.2.8 Coating	9
5.2.9 Cladding	10
5.2.10 Internal protection	10
5.2.11 Lightning protection	10
5.3 Gas tightness	10
5.4 Temperature classes	11
6 Structural design	11
6.1 Altimetry and geometry	11
6.2 Actions	13
6.2.1 General	13
6.2.2 Permanent action	13
6.2.3 Deflection of bearing system	13
6.2.4 Wind suction	13
6.2.5 Thermal actions	14
6.2.6 Internal pressure at design conditions	15
6.3 Verification	16
6.3.1 General	16
6.3.2 Mechanical characteristics	16
7 Fabrication	16
7.1 Tolerances	16
7.2 Surface protection against chemical attack	16
Bibliography	17

European foreword

This document (prEN 13084-6:2024) has been prepared by Technical Committee CEN/TC 297 “Free-standing industrial chimneys”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13084-6:2015.

prEN 13084-6:2024 includes the following significant technical changes with respect to EN 13084-6:2015:

- reformulation of the scope,
- additions to the terms and definitions,
- revision and addition of subclause 5.2, “Construction details”,
- revision and addition of Clause 6 “Structural design”,
- deletion of Annex A which was transferred in FprEN 13084-1.

This document is part one of the package of standards listed below:

- EN 13084-1, *Free-standing chimneys — Part 1: General requirements*
- EN 13084-2, *Free-standing chimneys — Part 2: Concrete chimneys*
- EN 13084-4, *Free-standing chimneys — Part 4: Brick liners — Design and execution*
- EN 13084-5, *Free-standing chimneys — Part 5: Material for brick liners — Product specifications*
- EN 13084-6, *Free-standing chimneys — Part 6: Steel liners — Design and execution*
- EN 13084-7, *Free-standing chimneys — Part 7: Product specifications of cylindrical steel fabrications for use in single wall steel chimneys and steel liners*
- EN 13084-8, *Free-standing chimneys — Part 8: Design and execution of mast construction with satellite components*
- EN 13084-9, *Free-standing chimneys — Part 9: Monitoring, inspection, maintenance, remedial and reporting; operations and actions required*
- prEN 1993-3, *Eurocode 3: Design of steel structures — Part 3: Towers, masts and chimneys*

prEN 13084-6:2024 (E)**1 Scope**

This document deals with special requirements and performance criteria for the design of lining systems made of steel for free standing chimneys. It specifies the requirements for cylindrical steel liners as stated in EN 13084-1.

This document covers the design of the following three basic types of liners located in a load bearing structure:

- a) base supported liner;
- b) sectional liner;
- c) top hung liner.

Additionally this document applies to single wall chimneys regarding their contact with flue gases.

For simplicity, these various designs will generally be referred to herein as “liners”.

The mechanical requirement is not part of this document, for information see prEN 1993-3.

NOTE Liners built from prefabricated metal chimneys in accordance with EN 1856-1:2009 and EN 1856-2:2009 are installed as base supported liners with additional supports and guides as defined in this document.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1090-2:2018, Execution of steel structures and aluminium structures — Part 2: Technical requirements for steel structures

EN 1443:2019, *Chimneys — General requirements*

EN 1856-1:2009, *Chimneys — Requirements for metal chimneys — Part 1: System chimney products*

EN 1856-2:2009, *Chimneys — Requirements for metal chimneys — Part 2: Metal flue liners and connecting flue pipes*

EN 1859:2009+A1:2013, *Chimneys — Metal chimneys — Test methods*

EN 1991-1-4, *Eurocode 1: Actions on structures — Part 1-4: General actions — Wind actions*

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

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

EN 10028 (all parts), *Flat products made of steels for pressure purposes*

EN 10088 (all parts), *Stainless steels*