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SUITSULÕÕRI ÜHENDUSTORUD RUUMIVÄLISE
ÕHUVARUSTUSEGA PÕLETUSSEADMETELE

Chimneys - Design, installation and commissioning -
Part 2: Chimneys and connecting flue pipes for room
sealed combustion appliances

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 15287-2:2023 sisaldab Euroopa standardi EN 15287-2:2023 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 26.07.2023.</p> <p>Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 15287-2:2023 consists of the English text of the European standard EN 15287-2:2023.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 26.07.2023.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

Chimneys - Design, installation and commissioning - Part 2: Chimneys and connecting flue pipes for room sealed combustion appliances

Conduits de fumée - Conception, installation et mise en service - Partie 2 : Conduits de fumée et conduits de raccordement pour appareils de combustion à circuit étanche

Abgasanlagen - Planung, Montage und Abnahme - Teil 2: Senkrechte Teile von Abgasanlagen und Verbindungsstücke für raumluftunabhängige Verbrennungseinrichtungen

This European Standard was approved by CEN on 5 June 2023.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 15287-2:2023) 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of an identical text or by endorsement, at the latest by January 2024 and conflicting national standards shall be withdrawn at the latest by January 2024.

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 will supersede EN 15287-2:2008.

This European Standard is part of the series *Chimneys — Design, installation and commissioning*:

- *Part 1: Chimneys and connecting flue pipes for non-room sealed combustion appliances;*
- *Part 2: Chimneys and connecting flue pipes for room sealed combustion appliances.*

In comparison with the previous edition, the following technical modifications have been made:

- a) restructuring of the chapters and annexes;
- b) harmonization of the text with part 1;
- c) updating the content according to EN 1443:2019;
- d) adoption of all relevant terms from EN 1443:2019 and EN 15287-1;
- e) adoption of all relevant chapters and annexes from EN 15287-1;
- f) description of the designation and classes of a chimney according to EN 1443:2019;
- g) expanding the specifications for accessories;
- h) recommendations for some minimum distances from combustible material;
- i) scope now also covers chimneys for medium and high positive pressure.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

CEN/TC 166 started with its programme on standardization of chimneys approximately 30 years ago, with standards for interfaces, for products, for tests and last but not least for design, installation, construction and commissioning matters.

In the last years, first priority in the work program was given to product and test standards.

In the meantime, most of the product and test standards were published or are nearly ready for publication. In order to introduce the products in a simple way on the markets of the different Member States, some common rules for design, installation, and commissioning especially with reference to the designation of a chimney were considered helpful.

Initially, CEN/TC 166/SC 2 started the work on execution standards for metal chimneys, the first standard being EN 12391-1 in 2003.

In order not to repeat this work in all material orientated WGs and SCs, CEN/TC 166 decided in 2002 to give the task to WG 1 to develop a material independent design, installation and commissioning standard.

CEN/TC 166/WG 1 started the work in 2003 and decided first to draft two documents, one for chimneys connected to non-room sealed combustion appliances and one for chimneys connected to room sealed combustion appliances.

Application of this document presupposes awareness of applicable legal requirements in the different CEN Member States and its affiliates. In CEN Member States and its affiliates where no applicable legal requirements exist, this document provides guidance for the design, installation and commissioning of chimneys.

NOTE Where “Member States” is mentioned in this document this also includes affiliates.

1 Scope

This document describes the method of specifying the design, installation and labelling criteria for chimney systems, construction of custom-built chimneys, the relining or converting of existing chimneys, connecting flue pipes and air supply pipes for room sealed combustion appliances as well as the use of chimney products. It also gives information on commissioning of an installed chimney.

This document applies to chimneys which are subject to the following limiting conditions:

- the distance between the supports not to exceed 4 m;
- the distance above the last structural attachment not to exceed 3 m;
- the free-standing height above the uppermost structural support attachment for chimneys with rectangular cross section is not more than five times the smallest external dimension.

This document does not cover:

- chimneys which serve a mixture of fan assisted or forced draught burners or natural draught appliances;
- installations having a configuration of the type C₂.

NOTE Room sealed gas appliances are classified as type C according to EN 1749.

The methods in this part of this document are applicable to chimneys and connecting flue pipes for room sealed combustion appliances. The methods in Part 1 of this document are applicable to chimneys and connecting flue pipes for non-room sealed combustion appliances.

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 1443:2019, *Chimneys - General requirements*

EN 1457-1, *Chimneys - Clay/ceramic flue liners - Part 1: Flue liners operating under dry conditions - Requirements and test methods*

EN 1457-2, *Chimneys - Clay/ceramic flue liners - Part 2: Flue liners operating under wet conditions - Requirements and test methods*

EN 1806, *Chimneys - Clay/ceramic flue blocks for single wall chimneys - Requirements and test methods*

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

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

EN 1857, *Chimneys - Components - Concrete flue liners*

EN 1858, *Chimneys - Components - Concrete flue blocks*

EN 12446, *Chimneys - Components - Concrete outer wall elements*

EN 13063-1, *Chimneys - System chimneys with clay/ceramic flue liners - Part 1: Requirements and test methods for sootfire resistance*

EN 13063-2, *Chimneys - System chimneys with clay/ceramic flue liners - Part 2: Requirements and test methods under wet conditions*

EN 13063-3, *Chimneys - System chimneys with clay/ceramic flue liners - Part 3: Requirements and test methods for air flue system chimneys*

EN 13069, *Chimneys - Clay/ceramic outer walls for system chimneys - Requirements and test methods*

EN 13084-1, *Free-standing chimneys - Part 1: 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 combustion appliance*

EN 13384-2, *Chimneys - Thermal and fluid dynamic calculation methods - Part 2: Chimneys serving more than one combustion appliance*

EN 13502, *Chimneys - Requirements and test methods for clay/ceramic flue terminals*

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

EN 14471, *Chimneys - System chimneys with plastic flue liners - Requirements and test methods*

EN 14989-1, *Chimneys - Requirements and test methods for metal chimneys and material independent air supply ducts for roomsealed heating applications - Part 1: Vertical air/flue terminals for C6-type appliances*

EN 14989-2, *Chimneys - Requirements and test methods for metal chimneys and material independent air supply ducts for roomsealed heating applications - Part 2: Flue and air supply ducts for room sealed appliances*

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*

EN 15287-1:2023, *Chimneys - Design, installation and commissioning of chimneys - Part 1: Chimneys for non-roomsealed combustion appliances*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1443:2019 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp/>

NOTE 1 Examples of chimney construction identifying individual component terminology and definitions are given in Figures A.1, A.2 and A.3 in Annex A. Examples of balanced air/flue configurations for room sealed applications are given in Figures A.4 and A.5. The configurations of Figure A.4 and Figure A.5 can be created from converting or relining an existing chimney.

NOTE 2 The European scheme for the classification of gas appliances is given in EN 1749.