

KORSTNAD. PROJEKTEERIMINE, PAIGALDAMINE JA
TÖÖKORRAS OLEKU HINDAMINE. OSA 2: KORSTNAD
RUUMIVÄLISE ÕHUVARUSTUSEGA KÜTTESEADMETELE

Chimneys - Design, installation and commissioning of
chimneys - Part 2: Chimneys for roomsealed appliances

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 15287-2:2008 sisaldab Euroopa standardi EN 15287-2:2008 ingliskeelset teksti.	This Estonian standard EVS-EN 15287-2:2008 consists of the English text of the European standard EN 15287-2:2008.
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English Version

Chimneys - Design, installation and commissioning of chimneys - Part 2: Chimneys for roomsealed appliances

Cheminées - Conception, installation et mise en service
des conduits de fumée - Partie 2 : Conduits de fumée pour
chaudières étanches

Abgasanlagen - Planung, Montage und Abnahme von
Abgasanlagen - Teil 2: Abgasanlagen für
raumluftunabhängige Feuerstätten

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Foreword

This document (EN 15287-2:2008) 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of an identical text or by endorsement, at the latest by September 2008, and conflicting national standards shall be withdrawn at the latest by September 2008.

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 European Standard is one of a series of specifications as listed below.

Chimneys – Design, installation and commissioning of chimneys – Part 1: Chimneys for non-roomsealed heating appliances.

Chimneys – Design, installation and commissioning of chimneys – Part 2: Chimneys systems for roomsealed appliances.

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, 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 United Kingdom.

1 Scope

This European Standard describes the method of specifying the design, installation and labelling criteria for chimney systems, connecting flue pipes and air supply pipes for roomsealed heating applications. It also gives information on commissioning of an installed chimney.

This standard does not cover:

- chimneys designated H (high positive pressure chimneys), and chimneys designated P (normal positive pressure chimneys) serving more than one appliance,
- chimneys which serve a mixture of fan assisted or forced draught burners or natural draught appliances,
- installations having a configuration of the type C₂.

This European Standard does not apply to freestanding chimneys covered by EN 13084-1.

This standard also specifies limitations for supporting a chimney, and the maximum unsupported chimney height for system chimneys and custom built chimneys.

NOTE Roomsealed gas appliances are classified as type C according to CEN/TR 1749.

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 771-1, *Specification for masonry units - Part 1: Clay masonry units*

EN 771-2, *Specification for masonry units - Part 2: Calcium silicate masonry units*

EN 1443: 2003, *Chimneys – General requirements*

EN 1457, *Chimneys — Clay/ceramic flue liners — 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 liners and connecting flue pipes*

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

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

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

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

EN 13063, *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 13384-1: 2002, *Chimneys – Thermal and fluid dynamic calculation methods – Part 1: Chimneys serving one appliance*

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

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

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 15287-1:2007, *Chimneys - Design, installation and commissioning of chimneys - Part 1: Chimneys for non-roomsealed heating appliances*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1443:2003, EN 15287-1:2007 and the following apply.

NOTE 1 Examples of balanced air/flue configurations for roomsealed applications are given in Figures 1 and 2. The configurations of Figure 1 and Figure 2 may be created from converting or relining an existing chimney.

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

3.1

air supply duct

duct in a chimney system only for conveying combustion air to a room-sealed appliance

3.2

balanced flue chimney configuration

configuration where the air entry to the combustion air supply duct is adjacent to the discharge of combustion products from the flue, the inlet and outlet being so positioned that wind effects are substantially balanced

3.3

concentric chimney configuration

configuration in which the chimney flue is fully surrounded by the air supply duct

NOTE This includes chimney configurations where the flue duct and air supply duct do not share a common axis.

3.4

connecting air supply pipe

component or components connecting the heating appliance air supply to the chimney system air supply duct