



SLOVENSKI STANDARD

SIST EN 13063-2:2005+A1:2007

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

Abgasanlagen - System-Abgasanlagen mit Keramik-Innenrohren - Teil 2: Anforderungen und Prüfungen für feuchte Betriebsweise

Conduits de cheminées - Conduits de cheminées résistant aux feux de cheminées a paroi intérieure en terre cuite/céramique - Partie 2: Exigences et méthodes d'essai en conditions humides

Ta slovenski standard je istoveten z: EN 13063-2:2005+A1:2007

ICS:

91.060.40	Dimniki, jaški, kanali	Chimneys, shafts, ducts
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English Version

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

Conduits de cheminées - Conduits de cheminées résistant
aux feux de cheminées à paroi intérieure en terre
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Innenrohren - Teil 2: Anforderungen und Prüfungen für
feuchte Betriebsweise

This European Standard was approved by CEN on 1 April 2005 and includes Amendment 1 approved by CEN on 14 June 2007.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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Foreword

This document (EN 13063-2:2005+A1:2007) has been prepared by Technical Committee CEN/TC 166 “Chimneys”, the secretariat of which is held by UNI.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2008 and conflicting national standards shall be withdrawn at the latest by April 2009.

This document includes Amendment 1 approved by CEN on 2007-06-14.

This document supersedes EN 13063-2:2005.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** and **A1**.

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 document is part 2 of a series of standards for system chimneys with clay/ceramic flue liners.

Part 1 is for chimneys with sootfire resistance and part 3 is for system air flue chimneys.

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 specifies the requirements and test methods for multiwall system chimneys working under wet conditions (in the following expressed as “wet chimney”) with pressure type N1, N2 or P1 according to EN 1443 and a working temperature below or equal T600 according to ^[A1]EN 13063-1:2005+A1 ^[A1], in which the products of combustion are conveyed to the atmosphere through clay/ceramic flue liners. Marking and inspection are also covered by this document.

This European Standard does not apply to structurally independent (free standing or self-supporting) system chimneys.

The wet chimney may comprise the following appropriate components:

- clay/ceramic flue liners;
- insulation layer;
- outer walls;
- acid resistant mortar for jointing flue liners or elastomeric sealant;
- mortar for jointing outer walls;
- terminal;
- chimney base;
- condensate collector;
- condensate outlet;
- cladding;
- opening section;
- cleaning and inspection door;
- distance piece;
- reinforcement.

The wet system chimney covers a combination of compatible chimney components, obtained or specified from one manufacturing source with product responsibility for the whole system chimney.

NOTE This document does not cover soot fire resistance chimneys.

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 998-2:2003, *Specification for mortar for masonry – Part 2: Masonry mortar* ^(A1)

EN 1366-8, *Fire resistance tests for service installations – Part 8: Smoke extraction ducts* ^(A1)

EN 1443:2003, *Chimneys – General requirements*

EN 1457:1999, *Chimneys – Clay/ceramic flue liners – Requirements and test methods*

EN 12446:2003, *Chimneys – Components – Concrete outer wall elements*

^(A1) EN 13063-1:2005+A1:2007 ^(A1), *Chimneys – System chimneys with clay/ceramic flue liners – Part 1: Requirements and test methods for sootfire resistance*

^(A1) EN 13069:2005 ^(A1), *Chimneys – Clay/ceramic outer walls for system chimneys – Requirements and test methods*

EN 13162:2001, *Thermal insulation products for buildings – Factory made mineral wool (MW) products – Specification*

EN 13216-1:2004, *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 appliance*

^(A1) EN 14241-1 ^(A1), *Chimneys – Elastomeric seals and elastomeric sealants – Material requirements and test methods - Part 1: Seals in flue liners*

EN 14297:2004, *Chimneys – Freeze-thaw resistance test method for chimney products*

^(A1) ISO 2859-1, *Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection* ^(A1)

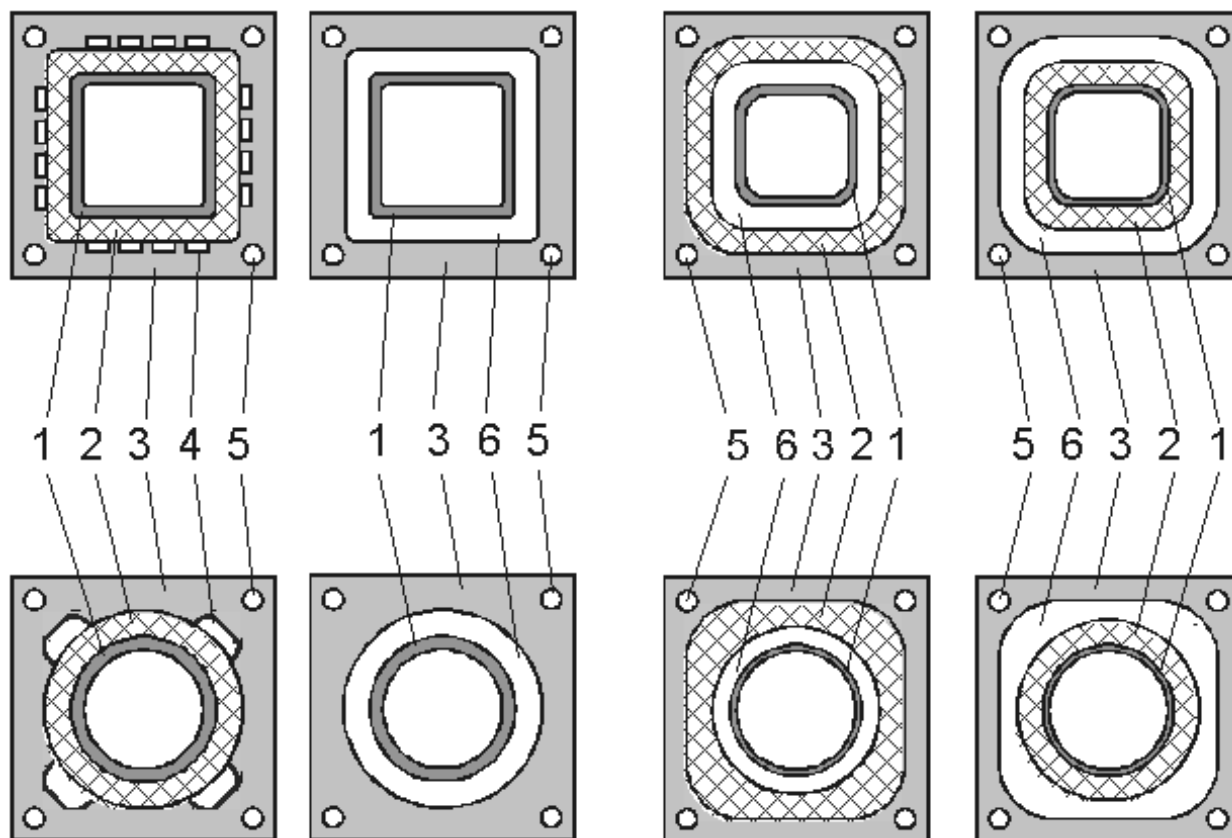
3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 1443:2003, EN 13216-1:2004, ^(A1) EN 13063-1:2005+A1:2007 ^(A1) and the following apply.

3.1

system chimney under wet conditions

system chimney is a multiwall construction, consisting mainly of an outer wall, an insulation layer and the inner clay/ceramic flue liner that can work under wet conditions (see Figure 1)



Key

- 1 flue liner
- 2 insulation layer
- 3 outer wall
- 4 back ventilation
- 5 cavities for structural reinforcement
- 6 non ventilated air gap

Figure 1 — Examples of construction of a chimney for wet conditions

3.2

wet operating conditions

conditions when the chimney is designed to operate normally with the temperature of the inner surface of the flue liner at and below the water dew point

3.3

condensate collector

flue liner base unit for collecting the condensates with an opening for discharging the condensates

3.4

condensate outlet

drain to ensure the discharge of the condensates from the condensates collector

3.5

jointing materials for flue liners

3.5.1

prefabricated elastomeric seals

prefabricated element made of elastomeric material, which ensures a gastight seal in a joint