

Korstnad. Üldnõuded

Chimneys - General requirements

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English version

Chimneys - General requirements

Conduits de fumée - Exigences générales

Abgasanlagen - Allgemeine Anforderungen

This European Standard was approved by CEN on 28 November 2002.

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Foreword

This document (EN 1443:2003) 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of an identical text or by endorsement, at the latest by September 2003, and conflicting national standards shall be withdrawn at the latest by September 2003.

This document supersedes EN 1443:1999.

A list of standards and draft standards produced by CEN/TC 166 is given in "Bibliography".

Annexes A and B are informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovak Republic, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

The development of heating appliances which has progressed in the recent years due to the need of saving energy and protecting the environment was paralleled by technical development of chimneys. Therefore, new additional requirements for chimneys are necessary, e.g. operation with positive pressure, operation with the formation of condensate.

Chimneys consist of different components which can be assembled, e.g. either

- as system chimneys, that is installed using a combination of compatible chimney components, obtained or specified from one manufacturing source with product responsibility for the whole chimney, or
- as custom-built chimneys, that is installed or built on-site in accordance with an execution standard or local building regulations, using a combination of compatible chimney components that can be from one or more sources.

This European Standard covers both cases. Annex A lists the relevant performance requirements for system chimneys and custom-built chimneys.

This European Standard specifies a designation scheme for chimneys which considers combinations between heating appliance and chimney. This scheme takes into account for example different climatic conditions and different fuels.

The ability of a chimney to prevent ignition of adjacent combustible materials and to prevent the spread of fire to adjacent areas within a building is included.

The first edition of this standard was in June 1999. In the meantime the Mandate under the Construction Product Directive (CPD) for chimneys (M 105) was published and some European Standard concerning the test of fire spread are published. Therefore the standard has been revised.

1 Scope

This European Standard specifies general requirements and the basic performance criteria and specifies limit values where appropriate for chimneys (including connecting flue pipes and their fittings) used to convey the products of combustion from heating appliances to the outside atmosphere. It is intended to be used as a reference for product standards for chimneys, flues and specific products (elements, kits and terminals) used in the construction of chimneys. It also identifies minimum requirements for marking and evaluation of conformity.

It does not apply to structurally independent chimneys.

NOTE This European Standard can be used as a basis for the specifications of products covered by a European Technical Approval.

2 Normative References

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 563, *Safety of machinery – Temperatures of touchable surfaces – Ergonomics data to establish temperature limit values for hot surfaces.*

prEN 13216-1, *Chimneys – Test methods for system chimneys – Part 1: General test methods.*

prEN 14297, *Chimneys – Freeze-thaw resistance test method.*

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

3.1

heating appliance

unit generating products of combustion which need to be conveyed to the outside atmosphere

3.2

flue

passage for conveying the products of combustion to the outside atmosphere

3.3

flue gas

gaseous portion of the products of combustion conveyed in a flue

3.4

products of combustion

products resulting from the combustion of fuel (gaseous, liquid and solid constituents)

3.5

flue liner

wall of a chimney consisting of components the surface of which is in contact with products of combustion

3.6

chimney

structure consisting of a wall or walls enclosing a flue or flues

3.7

chimney component

any part of a chimney

3.8

chimney section

straight chimney component conveying products of combustion