



NSAI
Standards

Irish Standard
I.S. EN 13216-1:2019

Chimneys - Test methods for system chimneys - Part 1: General test methods

I.S. EN 13216-1:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

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EUROPEAN STANDARD

EN 13216-1

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April 2019

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English Version

Chimneys - Test methods for system chimneys - Part 1: General test methods

Conduits de fumée - Méthodes d'essai pour les
systèmes de conduits de fumée - Partie 1 : Méthodes
d'essai générales

Abgasanlagen - Prüfverfahren für System-
Abgasanlagen - Teil 1: Allgemeine Prüfverfahren

This European Standard was approved by CEN on 12 November 2018.

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European foreword

This document (EN 13216-1:2019) has been prepared by Technical Committee CEN/TC 166 “Chimneys”, the secretariat of which is held by ASI.

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text or by endorsement, at the latest by month year of October 2019, and conflicting national standards shall be withdrawn at the latest by January 2021.

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 13216:2004.

System chimneys type tested prior to this revision need not be retested, if historical data covers the intended configuration for the relevant test.

In comparison to the previous edition the following changes were made:

- a) clarification of the scope;
- b) revision of terms and definitions;
- c) revision of the thermal test assembly and test structure to include options for alternative building insulation levels;
- d) revision of the test procedure;
- e) incorporation of terminals;
- f) incorporation of test for freeze–thaw resistance;
- g) incorporation of testing of concentric balanced flue systems;
- h) editorial changes.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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Introduction

CEN/TC 166 intends to publish the test methods for system chimneys as separate parts of a series of standards.

The first part of the series of EN 13216 includes material-independent test methods for system chimneys.

Further parts of the multi-part standard include material-specific test methods, each material used for the inner wall being decisive. The material-specific test methods are based on the general material-independent test methods. Considering the various characteristics, the material tests can be carried out on deviating specimens or can include other test procedures that however have correlation to those given in this document.

It is intended to prepare further parts if further material-specific standards are published.

1 Scope

This document specifies material-independent general test methods for all system chimneys. It can be used for all flue gas carrying products.

NOTE The thermal performance tests for the determination of the distance to combustible material for accessories (draught regulators, access components, etc.) are included in different standards of CEN/TC 166.

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, *Chimneys - General requirements*

EN 10088-1, *Stainless steels - Part 1: List of stainless steels*

EN 13384-1:2015, *Chimneys - Thermal and fluid dynamic calculation methods - Part 1: Chimneys serving one heating appliance*

EN 60529, *Degrees of protection provided by enclosures (IP Code) (IEC 60529)*

3 Terms and definitions

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

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

— IEC Electropedia: available at <http://www.electropedia.org/>

— ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

test chimney

test sample necessary to enable the system chimney to be assessed for the performance criteria defined in the relevant product standard

3.2

test assembly

construction of all parts necessary to enable the specific performance criteria to be assessed, comprising test sample, test structures, and measuring equipment

3.3

test sample

assembly of chimney components necessary to enable the system chimney to be assessed for specific performance criteria

3.4

test structure

assembly of the additional materials (non-chimney components) to enable the test sample to be assessed for the specific performance criteria

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