

Fire classification of construction products and building elements - Part 3: Classification using data from fire resistance tests on products and elements used in building service installations: fire resisting ducts and fire dampers KONSOLIDEERITUD TEKST

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13501-3:2006+A1:2009 sisaldab Euroopa standardi EN 13501-3:2005+A1:2009 ingliskeelset teksti.

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English Version

**Fire classification of construction products and building elements
- Part 3: Classification using data from fire resistance tests on
products and elements used in building service installations: fire
resisting ducts and fire dampers**

Classement au feu des produits et éléments de construction - Partie 3: Classement utilisant des données d'essais de résistance au feu de produits et éléments utilisés dans des installations d'entretien: Conduits et clapets résistants au feu

Klassifizierung von Bauprodukten und Bauarten zu ihrem Brandverhalten - Teil 3: Klassifizierung mit den Ergebnissen aus den Feuerwiderstandsprüfungen an Bauteilen von haustechnischen Anlagen: Feuerwiderstandsfähige Leitungen und Brandschutzklappen

This European Standard was approved by CEN on 22 September 2005 and includes Amendment 1 approved by CEN on 17 July 2009.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

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 13501-3:2005+A1:2009) has been prepared by Technical Committee CEN/TC 127 “Fire safety in buildings”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by March 2010, and conflicting national standards shall be withdrawn at the latest by March 2010.

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 document includes Amendment 1, approved by CEN on 2009-07-17.

This document supersedes EN 13501-3:2005.

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

This European Standard has been prepared under a Mandate given to CEN by the Commission of the European Communities and the European Free Trade Association, and supports essential requirements of the Construction Products Directive.

A1 Amendment 1 provides for the use of extended application reports in the classification procedure. **A1**

CEN, CENELEC and EOTA committees preparing technical specifications which contain performance requirements against fire resistance tests should make reference to the fire resistance classification given in this European Standard and not refer directly to any specific fire test method.

EN 13501 consists of the following parts:

- Part 1: Classification using data from reaction to fire tests,
- Part 2: Classification using data from fire resistance tests, excluding ventilation services,
- Part 3: Classification using data from fire resistance tests on products and elements used in building service installations: fire resisting ducts and fire dampers,
- Part 4: Classification using data from fire resistance tests on components of smoke control systems,
- Part 5: Classification using data from external fire exposure to roofs tests.

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.

Introduction

The aim of this European Standard is to define a harmonised procedure for the classification for resistance to fire of construction products and elements. This classification is based on the test procedures listed in **A1** Clause 2 and the relevant field of application procedures **A1**.

This European Standard is prepared in support of the second essential requirement in the EC Construction Products Directive (89/106/CEC), which is detailed in the Interpretative Document number 2 (ID2): Safety in case of fire (OJ C62 Vol 37). It reflects the Commission Decision of 3 May 2000 on the implementation of the Council Directive 89/106/EEC as regards the classification of the resistance to fire performance of construction products, construction works and parts thereof.

The Interpretative Document and the Commission Decision of 3 May 2000 specify performance and classes regarding fire resistance. These classes are identified by designation letters, each of which refers to an important characteristic of fire resistance behaviour.

This European Standard provides for a common understanding for these requirements. It interprets the functional requirements for the different groups of building products and elements and explains the method for deriving their classification on the basis of **A1** test results and/or extended application results for individual products or elements **A1**.

A1 NOTE Test reports constitute the basis for extended application reports as explained in prEN 15725. **A1**

1 Scope

This European Standard specifies the procedure for classification of the resistance to fire performance of construction products and building elements used as components of building service installations, using data from fire resistance tests which are within the direct field of application of the relevant test method. ^[A1] Classification on the basis of extended application of test results is also included in the scope of this European Standard. ^[A1]

Products/elements for use in ventilation systems include (excluding smoke and heat exhaust ventilation):

- fire resisting ducts;
- fire dampers.

Relevant test methods which have been prepared for these products/elements are listed in Clause 2.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1366-1:1999, *Fire resistance tests for service installations — Part 1: Ducts*

EN 1366-2:1999, *Fire resistance tests for service installations — Part 2: Fire dampers*

^[A1] prEN 15725, *Extended application reports on the fire performance of construction products and building elements* ^[A1]

EN ISO 13943:2000, *Fire safety — Vocabulary (ISO 13943:1999)*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN ISO 13943:2000, and the following apply.

3.1

direct field of application

the outcome of a process (involving the application of defined rules) whereby a test result is deemed to be equally valid for variations in one or more of the product properties and/or intended end use applications

3.2

extended field of application

the outcome of a process (involving the application of defined rules that may incorporate calculation procedures) that predicts, for a variation of a product property and/or its intended end use application(s), a test result on the basis of one or more test results to the same test standard

3.3

test specimen

element (or part) of building construction provided for the purpose of determining either its fire resistance or its contribution to the fire resistance of another building element

[EN 1363-1:1999]