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# EHITUSTOODETE JA -ELEMENTIDE TULEOHUTUSALANE KLASSIFIKATSIOON. OSA 3: KLASSIFIKATSIOON HOONE TEHNORAJATISTES KASUTATAVATE TOODETE JA ELEMENTIDE TULEPÜSIVUSKATSETE ANDMETE PÕHJAL: TULEKINDLAD VENTILATSIOONIKANALID JA TULESIIBRID JA/VÕI TOITE-, JUHTIMIS- JA SIDEKAABLID

# 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 ventilation ducts and fire dampers and/or power, control and communication cables

EESTI STANDARDIMIS- JA AKREDITEERIMISKESKUS
ESTONIAN CENTRE FOR STANDARDISATION AND ACCREDITATION

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

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| See Eesti standard EVS-EN 13501-3:2025 sisaldab Euroopa standardi EN 13501-3:2025 ingliskeelset teksti. | This Estonian standard EVS-EN 13501-3:2025 consists of the English text of the European standard EN 13501-3:2025. |
| Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. | This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. |
| Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 13.08.2025. | Date of Availability of the European standard is 13.08.2025. |
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ICS 13.220.50

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NORME EUROPÉENNE

EUROPÄISCHE NORM

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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 ventilation ducts and fire dampers and/or power, control and communication cables

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 de service : conduits de ventilation et clapets résistants au feu, et/ou câbles de puissance, de commande et de communication

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

This European Standard was approved by CEN on 18 May 2025.

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COMITÉ EUROPÉEN DE NORMALISATION
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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN 13501-3:2025) 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 February 2026, and conflicting national standards shall be withdrawn at the latest by February 2026.

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 13501-3:2005+A1:2009.

EN 13501-3:2025 includes the following significant technical changes with respect to EN 13501-3:2005+A1:2009:

— paragraphs related to fire protective systems for electric cable systems; unprotected electric cables with intrinsic fire resistance; unprotected small electric cables with intrinsic fire resistance the added paragraphs are: 5.1.5; 5.1.6; 5.1.7; 6.5.3; 6.5.4; 6.5.5; 7.2.4; 7.2.5; 7.2.6. Improving the text by replacing Declaration of fire resistance performance by Declaration of fire resistance classification avoiding the misinterpretation in relation with the text in regulation nº 305/2011/EC;

— adding an Annex B (normative) on *Additional fire damper classifications if declared*.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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 resistant ventilation ducts and fire dampers and/or power, control and communication cables;*

— *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;*

— *Part 6: Classification using data from, reaction to fire tests on power, control and communication cables.*

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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# Introduction

The aim of this document is to define a harmonized procedure for the classification for resistance to fire of construction products and building elements. This classification is based on the test procedures listed in Clause 2 and the relevant field of application procedures.

This document is prepared in support of the second essential requirement in the EC Construction Products Regulation (305/2011), which is detailed in the Interpretative Document number 2 (ID2): Safety in case of fire (OJ C62 Vol 37). It reflects the Commission Decision (EU) 2000/367/EC of 03/05/2000 amended by 2003/629/EC of 27/08/2003 and 2011/232/EC of 11/04/2011 as regards the classification of the resistance to fire performance of construction products, construction works and parts thereof.

Commission delegated regulation (EU) 2024/1681 of 6 March 2024 specifies 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 document provides for a common understanding for these requirements. It interprets the functional requirements for the different groups of construction products and building elements and explains the method for deriving their classification on the basis of test results and/or extended application results for individual construction products or building elements.

NOTE Test reports constitute the basis for extended application reports as explained in EN 15725.

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 document and not refer directly to any specific fire test method.

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# 1 Scope

This document 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. Classification on the basis of extended application of test results is also included in the scope of this document.

Construction products or building elements for use in ventilation systems include (excluding smoke control system):

— fire resisting ventilation ducts;

— fire dampers.

Construction products or building elements for use in or as cables systems:

— unprotected electric cables with intrinsic fire resistance;

— fire protective systems for cable systems and associated components.

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

NOTE Cables associated with fire dampers are not generally covered by this document unless there is a local regulation that requires it.

# 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 1366-1, *Fire resistance tests for service installations — Part 1: Ventilation ducts*

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

EN 1366-11, *Fire resistance tests for service installations — Part 11: Fire protective systems for cable systems and associated components*

EN 15650, *Ventilation for buildings — Fire dampers*

EN 15725, *Extended application on the fire performance of construction products and building elements: Principle of EXAP standards and EXAP reports*

EN 50200, *Method of test for resistance to fire of unprotected small cables for use in emergency circuits*

EN 50289-4-16, *Communication cables — Specifications for test methods — Part 4-16: Environmental test methods — Circuit integrity under fire conditions*

EN 50577, *Electric cables — Fire resistance test for unprotected electric cables (P classification)*

EN 50582, *Procedure to assess the circuit integrity of optical fibres in a cable under resistance to fire testing*

# 3 Terms and definitions

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

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