

STN	Klasifikácia požiarňých charakteristík stavebných výrobkov a prvkov stavieb Časť 1: Klasifikácia využívajúca údaje zo skúšok reakcie na oheň	STN EN 13501-1 92 0850
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Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

Classement au feu des produits et éléments de construction - Partie 1: Classement à partir des données d'essais de réaction au feu

Klassifizierung von Bauprodukten und Bauarten zu ihrem Brandverhalten - Teil 1: Klassifizierung mit den Ergebnissen aus den Prüfungen zum Brandverhalten von Bauprodukten

This European Standard was approved by CEN on 9 November 2018.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents

Page

European foreword.....	5
Introduction.....	6
1 Scope	7
2 Normative references	7
3 Terms, definitions and symbols.....	8
3.1 Terms and definitions.....	8
3.2 Symbols and abbreviations.....	14
4 Classes of reaction to fire performance.....	14
5 Test methods and field of application rules	15
5.1 General.....	15
5.2 Non-combustibility test (EN ISO 1182).....	15
5.3 Heat of combustion test (EN ISO 1716).....	15
5.4 Single burning item test (EN 13823)	15
5.5 Ignitability test (EN ISO 11925-2)	15
5.6 Determination of the burning behaviour of floorings, using a radiant heat source (EN ISO 9239-1)	15
6 Principles for testing, specimen preparation and field of application	16
6.1 General requirements for specimen preparation	16
6.2 Specific requirements for non-combustibility and heat of combustion testing.....	16
6.3 Specific requirements for the single burning item test, the ignitability test and the test for the determination of the burning behaviour of floorings, using a radiant heat source.....	16
6.4 Field of application	17
7 Number of tests for classification.....	17
8 Testing of construction products, excluding floorings and linear pipe thermal insulation products (see Table 1).....	18
8.1 Class E, F.....	18
8.2 Classes D, C, B.....	18
8.3 Classes A2, A1.....	19
8.4 Additional classifications s1, s2, s3 for smoke production	19
8.5 Additional classifications d0, d1, d2 for flaming droplets/particles.....	19
9 Testing of floorings (see Table 2)	19
9.1 Class E _{fl} , F _{fl}	19
9.2 Classes D _{fl} , C _{fl} , B _{fl}	19
9.3 Classes A2 _{fl} , A1 _{fl}	20
9.4 Additional classifications s1, s2 for smoke production.....	20
10 Testing of linear pipe thermal insulation products (see Table 3).....	20
10.1 Class E _L , F _L	20
10.2 Classes D _L , C _L , B _L	20
10.3 Classes A2 _L , A1 _L	20
10.4 Additional classifications s1, s2, s3 for smoke production	21

10.5	Additional classifications d0, d1, d2 for flaming droplets/particles.....	21
11	Classification criteria for construction products, excluding floorings (see Table 1)	21
11.1	General.....	21
11.2	Class F.....	22
11.3	Class E.....	22
11.4	Class D	22
11.5	Class C.....	22
11.6	Class B.....	23
11.7	Class A2	23
11.8	Class A1	24
11.9	Additional classifications s1, s2, s3 for smoke production	25
11.10	Additional classifications d0, d1, d2 for flaming droplets and/or particles.....	26
12	Classification criteria for floorings (see Table 2)	27
12.1	General.....	27
12.2	Class F_{fl}	27
12.3	Class E_{fl}	27
12.4	Class D_{fl}.....	27
12.5	Class C_{fl}	28
12.6	Class B_{fl}.....	28
12.7	Class A2_{fl}	28
12.8	Class A1_{fl}	29
12.9	Additional classifications s1, s2 for smoke production	30
13	Classification criteria for linear pipe thermal insulation products (see Table 3).....	31
13.1	General.....	31
13.2	Class F_L.....	31
13.3	Class E_L	31
13.4	Class D_L.....	32
13.5	Class C_L	32
13.6	Class B_L.....	32
13.7	Class A2_L.....	32
13.8	Class A1_L.....	34
13.9	Additional classifications s1, s2, s3 for smoke production	35
13.10	Additional classifications d0, d1, d2 for flaming droplets and/or particles.....	35
14	Presentation of classification	36
14.1	Construction products, excluding floorings and linear pipe thermal insulation products.....	36
14.2	Floorings.....	36
14.3	Linear pipe thermal insulation products	37
15	Field of application of the classification	37
16	Classification report.....	38
16.1	General.....	38
16.2	Content and format.....	38
Annex A (informative)	Background information for the application of the Commission delegated regulation 2016/364 on classification of reaction to fire performance of construction products pursuant to regulation N°305/2011 of the European parliament and of the Council	44
A.1	General.....	44
A.2	Assumptions.....	44

EN 13501-1:2018 (E)

A.3	Reference fire situations.....	45
A.3.1	Reference fire situations for construction products, linear pipe thermal insulation products but except floorings.....	45
A.3.2	Reference fire situations for floorings.....	46
A.4	Relationship between classes and reference fire situations	47
A.4.1	General.....	47
A.4.2	For all construction products excluding floorings	47
A.4.3	For floorings.....	48
Annex B (normative)	Reaction to fire classification report	51
B.1	Introduction	51
B.2	Details of classified product	51
B.2.1	General.....	51
B.2.2	Product description.....	51
B.3	Reports and results in support of this classification	52
B.3.1	Specific conditions(**).....	52
B.3.2	Reports.....	52
B.3.3	Results	52
B.4	Classification and field of application.....	53
B.4.1	Reference of classification	53
B.4.2	Classification	53
B.4.3	Field of application	54
B.5	Limitations.....	54
	Bibliography.....	55

European foreword

This document (EN 13501-1:2018) 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 June 2019, and conflicting national standards shall be withdrawn at the latest by September 2020.

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 supersedes EN 13501-1:2007+A1:2009.

In addition to editorial corrections this document includes the reaction to fire classification procedure for linear pipe thermal insulation products.

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

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

EN 13501, *Fire classification of construction products and building elements* 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*
- *Part 6: Classification using data from reaction to fire tests on power, control and communication cables.*

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.

EN 13501-1:2018 (E)**Introduction**

The aim of this European Standard is to define a harmonized procedure for the classification of reaction to fire of construction products. This classification is based on the test procedures listed in Clause 5 and the relevant field of application procedures.

This European Standard has been prepared in support of the second essential requirement in the EC Construction Products Regulation (305/2011/EU) and as detailed in the Interpretative Document Number 2: Safety in case of fire (OJ C62 Vol. 37).

Background information on the Commission Delegated Regulation (2016/364) regarding the classification of the reaction to fire performance of construction products is given in Annex A.

The European Commission has drawn up a list of products which, under specified conditions, can be considered to be class A1 without testing. This information is given in the Commission Decision 96/603/EC (OJ L 267 19.10.1966 p23) as amended by 2000/605/EC (OJ L 258 12.10.2000 p36) and 2003/424/EC (OJ L 144 12.6.2003 p9).

Additionally there is a procedure by which certain products can be assigned a particular fire classification without the need for testing. Such products have well established reaction to fire performance and have been agreed by the Standing Committee on Construction. Agreements relating to such products which may be 'classified without further testing' (CWFT) are published in the Official Journal of the EC.

Parts 2, 3 and 4 of this European Standard are concerned with classification resulting from fire resistance tests. Part 5 covers classification resulting from tests for external fire exposure to roofs. Part 6 covers classification resulting from tests for reaction to fire of cables.

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

1 Scope

This document provides the reaction to fire classification procedure for all construction products, including products incorporated within building elements with the exception of power, control and communication cables which are covered by EN 13501-6.

Products are considered in relation to their end use application.

This document applies to three categories, which are treated separately in this document:

- construction products, excluding floorings and linear pipe thermal insulation products;
- floorings;
- linear pipe thermal insulation products.

NOTE For CE marking of construction products under the Construction Product Regulation ((EC) 305/2011) the NPD option can be used when no reaction of fire performance is to be declared.

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 13823, *Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item*

CEN/TS 15117, *Guidance on direct and extended application*

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

EN ISO 1182, *Reaction to fire tests for products - Non-combustibility test (ISO 1182)*

EN ISO 1716:2010, *Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value) (ISO 1716:2010)*

EN ISO 9239-1, *Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source (ISO 9239-1)*

EN ISO 11925-2, *Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test (ISO 11925-2)*

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