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BSI Standards Publication

Extended application reports on the fire performance of construction products and building elements

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National foreword

This British Standard is the UK implementation of EN 15725:2010.

The UK participation in its preparation was entrusted to Technical Committee FSH/22, Fire resistance tests.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Date	Text affected

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 15725

June 2010

ICS 13.220.50

English Version

Extended application reports on the fire performance of construction products and building elements

Rapports d'application étendue des performances au feu des produits et éléments de construction

Berichte zum erweiterten Anwendungsbereich bezogen auf das Brandverhalten von Bauprodukten und Bauarten

This European Standard was approved by CEN on 19 May 2010.

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 15725:2010) 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of an identical text or by endorsement, at the latest by December 2010, and conflicting national standards shall be withdrawn at the latest by December 2010.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.

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, Croatia, 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

A construction product and a building element may be placed on the market with different thicknesses, densities, fixing conditions, substrates, etc. It is not practicable to test all combinations of different product parameters for the reaction to fire performance or fire resistance or external fire exposure performance, although these parameters may substantially influence the test result.

NOTE A building element is understood to be a defined construction component, e.g. wall, partition, floor, roof, beam or column.

Fire test methods may not include any information on direct application, the result obtained in the test is that which is reported. In a separate exercise it is possible to extend the field of application of the individual test results to a variation of the values of the different product parameters. This process of extended application uses rules which are essentially based on a worst case scenario and interpolation techniques. All information on extended field of application of reaction to fire results is given in CEN/TS 15117.

There are a number of practical limitations on the size and design of elements that can be tested by the standard methods of test for fire resistance. When these elements are larger, or are of a modified design, there is a necessity to be able to confirm their performance, i.e. whether the classification(s) given in the classification report in relation to the relevant criteria are maintained, without the ability of being able to test them. To achieve this, extended application standards for the various elements are under development.

Rules for extended application of results from external fire exposure to roof tests are also under development.

1 Scope

This European Standard gives the procedures for preparing reports on the extended application process using the results of reaction to fire tests, fire resistance tests and external fire exposure to roof tests undertaken for fire classification of products and product families in accordance with the various parts of EN 13501.

This standard makes reference to 'extended application standards' throughout; wherever this term is used it refers to either a standard prepared by CEN/TC 127 'Fire safety in buildings' or the relevant product standard which includes information on extended application. In some cases, where a standard is not yet published, relevant bodies may issue recommendations for use by Notified Bodies in attestation procedures for CE marking under the Construction Products Directive (CPD), http://ec.europa.eu/enterprise/newapproach/nando/.

The European system currently permits extended application rules to be included in technical specifications. CEN Technical Committees and EOTA Working groups producing these rules are asked to seek the guidance of CEN/TC 127 to ensure that their rules comply with standards prepared by CEN/TC 127. In cases where extended application rules in harmonised EN product standards and ETAs do not comply with standards prepared by CEN/TC 127 the CEN BT should be informed.

2 Normative references

The following referenced documents are indispensable for the application 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 13238, *Reaction to fire tests for building products — Conditioning procedures and general rules for selection of substrates*

EN 13501-1:2007+A1:2009, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

EN 13501-2:2007+A1, *Fire classification of construction products and building elements — Part 2: Classification using data from fire resistance tests, excluding ventilation services*

EN 13501-3:2005+A1, *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*

EN 13501-4:2007+A1, *Fire classification of construction products and building elements — Part 4: Classification using data from fire resistance tests on components of smoke control systems*

EN 13501-5:2005+A1, *Fire classification of construction products and building elements — Part 5: Classification using data from external fire exposure to roofs tests*

CEN/TS 15117:2005*, Guidance on direct and extended application*

CEN/TS 15447, *Mounting and fixing in reaction to fire tests under the Construction Products Directive*

3 Terms and definitions

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

3.1
classification
process defined in EN 13501, whereby the fire performance parameters obtained from the results of one test, or a set of tests, or from a process of extended application, are compared with limiting values for those parameters that are set as criteria for achieving a certain classification

NOTE The relevant classes and related criteria are specified in the following Commission Decisions:

a) Resistance to fire:

1) EC Decision 2000/367/EC (OJEU L 133 of 6.6.2000) as amended by EC Decision 2003/629/EC (OJEU L 218 of 30.8.2003);

b) Reaction to fire:

1) EC Decision 2000/147/EC (OJEU L 50 of 23.2.2000) as amended by EC Decision 2003/632/EC (OJEU L 220 of 3.9.2003) and by EC Decision 2006/751/EC (OJEU L 305 of 4.11.2006);

c) External fire performance for roofs:

1) EC Decision 2001/671/EC (OJUE L 235 of 4.9.2001) as amended by EC Decision 2005/823/EC (OJEU L 307 of 25.11.2005).

3.2
product
material, element or component about which information is required

[EN 13501-1:2007+A1:2009]

3.3
product family
range of products within defined limits of variability (defined by the manufacturer or a technical specification) of the product parameters and, if relevant, end use parameters, for which the fire performance remains unchanged (i.e. does not get worse)

3.4
product parameter
aspect of a product (for example thickness, composition, density) which may vary and which may or may not have an influence on the product's fire performance

3.5
end use application
where in the building the product is to be used, e.g. wall lining, flooring

3.6
end use condition
way the product is incorporated into the building, e.g. jointing, fixing and position with respect to adjacent products

NOTE The mounting and fixing conditions for testing reflect the end use conditions.

3.7
test result
outcome of a testing process and its associated procedures detailed within a specific test standard (which may include some processing of the results from the testing of a number of specimens) and expressed in terms of one or more fire performance parameter(s)

3.8
direct field of application of test results
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

3.9
extended field of application of test results
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

3.10
extended application report
document reporting extended application results, including all details of the process leading to those results

3.11
calculation
method that can be applied to one or more parameters of a result of a test which is based on existing physical laws or which has been empirically validated and which forms part of the process of defining the extended application

3.12
agreed expert opinion
results of a dialogue between a group of experts who are accepted by their peers as being knowledgeable in a particular fire test and the performance of products in that test. Such dialogue shall take place within a recognised and properly constituted forum, such as CEN/TC 127. These agreed expert opinions are then transformed into rules that may form the basis of extended application. Agreed expert opinion will lead notified bodies to a classification, suitable for the application of CE-marking.

3.13
expert judgement
view of a recognised expert in a particular fire test, and performance of products in that test, that may be used for the purpose of interpreting or applying results of that test in connection with the application of the particular product into parts of works for the purposes of satisfaction of national regulations

NOTE Expert judgement cannot form any part of extended application for CE marking, but may be obtained by manufacturers as a voluntary judgement outside of CE-marking.

3.14
constructional parameter
design and construction that may be varied and which may result in a change in the fire resistance performance, e.g. in a stud framed separating element a change in the dimensions of a stud

3.15
thermal and mechanical parameters
conditions of a test that may influence the classification given, e.g. the pressure differential that will exist at the top of a larger element than existed at the top of the specimen when tested

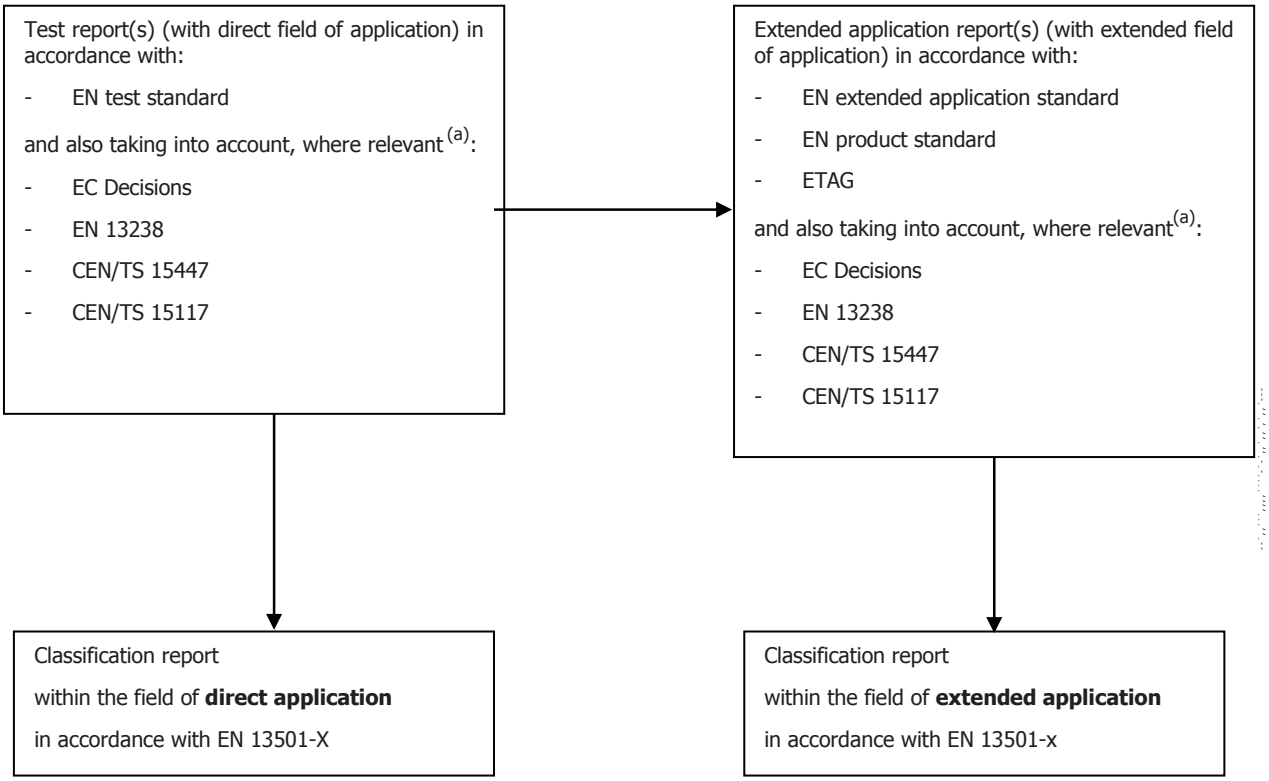
3.16
factor
variation that may be applied to a parameter, e.g. a change in the stiffness as a result of a dimensional change in the stud

3.17
factor influence
potential cause of a change in the fire resistance when the factor is changed, e.g. an increase in the loadbearing capacity R as a result of an increase in stiffness

4 Role of extended application in the classification process

There are two possible routes to obtaining a fire classification. The first one is to undertake fire tests in accordance with the relevant EN fire test methods given in one of the parts of EN 13501. From the test report(s) obtained, a classification report can be prepared. Secondly an extended application can be undertaken using test reports and other relevant data, and carried out in accordance with the relevant EN extended application standard. From this process an extended application report is prepared in conformity with this standard.

An extended application report is equivalent to a test report in that it then forms the basis for preparing a classification report. This process is illustrated in Figure 1.



(a) In some cases, where a standard is not yet published, relevant bodies may issue recommendations, available for use by Notified Bodies in attestation procedures for CE marking under the Construction Products Directive. (http://ec.europa.eu/enterprise/newapproach/nando/).

Figure 1 — Role of extended application in the fire classification process

5 Principles of establishing the field of application

5.1 General

Following a fire test there are two fields of application that can be derived from the result, direct field of application and extended field of application.

5.2 Direct field of application

5.2.1 Reaction to fire

Direct application of results from reaction to fire tests is undertaken in accordance with EN 13501-1:2007+A1 using results from the relevant EN classification test methods and taking into account information on substrates given in EN 13238 and information in CEN/TS 15117 and any other relevant European Technical Specification.

5.2.2 Fire resistance

The rules governing the direct field of application of results from fire resistance tests are given in the individual test methods.

5.2.3 External fire exposure to roofs

The rules governing the direct field of application of results from external fire exposure to roof tests are given in EN 13501-5:2005+A1.

5.3 Extended field of application

5.3.1 General principles

Extended application shall be undertaken by the laboratory which has carried out the relevant fire tests. If test results are to be used from more than one laboratory, then the extended application shall be undertaken by one of these laboratories and consultation should be made with the other laboratories.

NOTE When extended application is intended to be used for CE marking purposes the intervention of a Notified Body is mandatory.

When a Notified Body is requested to produce an EXAP Report which requires the consideration of evidence from third parties (e.g. test reports, DIRAP reports, other EXAP reports, etc.), such evidence shall only be used when permission has been obtained from the original sponsor/owner of that evidence.

Extended application shall be undertaken in accordance with the relevant EN extended application standard. Extended application shall be based on test methods in accordance with the relevant European standards or ETAG, which may be supplemented by:

— documents mentioned in Figure 1

5.3.2 Reaction to fire

Information on undertaking extended application from the results of reaction to fire tests and an explanation of the influence of product and end use parameters on reaction to fire performance is given in CEN/TS 15117.

5.3.3 Fire resistance

5.3.3.1 General

The extended field of application analysis is an additional process that has to be applied for and is not granted automatically following a fire resistance test. An extended field of application analysis is required when the application of the element differs from the test specimen and is not covered by the direct field of application. Examples for the variations to be considered when performing an extended application are identified in 5.3.3.2. Details of undertaking extended application of results of fire resistance tests are covered in the relevant European standards for extended application and other documents referred to in Figure 1. The methodology adopted in the prediction of fire resistance performance is based on universally accepted rules, some of which incorporate calculation methods and some of which may be 'agreed expert opinion' set out in the relevant extended application standard and other documents referred to in Figure 1. The basis of development of the rules varies according to the different parameters relevant for different elements.

Primary evidence for undertaking extended application shall have been generated from full tests carried out only to European standards or ETAGs. Secondary evidence, e.g. indicative tests to ENs or prENs, may also be used in support of extended application in certain cases (see 5.3.1). The acceptability of using indicative tests is given in the relevant extended application standard and varies according to the different parameters relevant for different elements.

5.3.3.2 Variations considered in the extended application standards

Examples of aspects considered in preparing the extended application documents as given in Figure 1 are given below.

a) Examples of thermal and mechanical parameters:

1) The load on a load bearing element;

2) The boundary conditions applied to an element at its ends or edges;

3) The thermal action or the number of faces exposed;

4) The pressure differential due to height;

5) The mechanical impact (if appropriate);

6) The orientation of an element, e.g. a change from vertical to sloping.

b) Examples of constructional parameters:

1) The construction of the element (e.g. thickness) and the method or the materials used in the construction of the element;

2) Any change in the dimensions of the element (normally larger) from that tested to that under consideration;

3) The introduction of, or any variations to, an aperture in a separating element;

4) The orientation of an asymmetric element in respect of the fire exposure.

5.3.4 External fire exposure to roofs

Information on undertaking extended application of the results from external fire exposure to roof tests and an explanation of the influence of product and end use parameters on external fire exposure to roofs performance will be given in a document under preparation.

5.4 Combination of parameter variations

An extended application analysis shall first of all consider each variation individually; the analysis shall then consider the effect of combining several of the relevant variations in accordance with the rules of the extended application standard.

5.5 Procedure for undertaking extended application

This is illustrated in Figure 2. The following steps shall be followed when undertaking extended application analysis:

a) define the product family;

b) collect the evidence from the various sources;

c) apply the rule(s) from the appropriate European standard using interpolation/extrapolation as appropriate/required; it is essential that there is clear justification of a combination of parameter changes;

d) establish if the evidence available is sufficient to support the fire performance wanted for the defined product family (if not, decide on what action is needed);

e) report the extended application analysis in accordance with Clause 6.

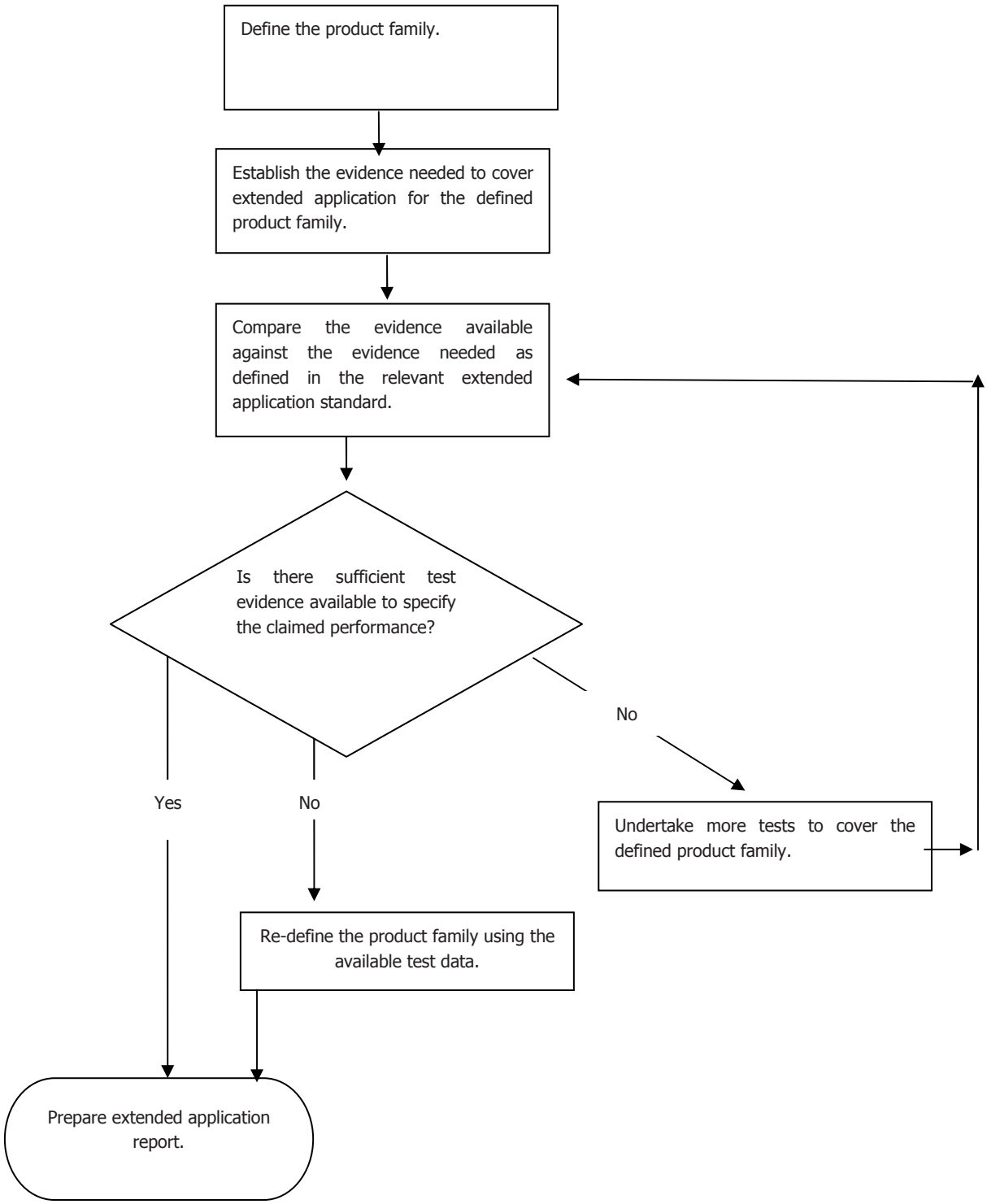


Figure 2 — Procedure for undertaking extended application

6 Information to be included in an extended application report

The format to be used for an extended application report shall be as given in Annexes A to C as appropriate. A separate report shall be prepared for each test undertaken. The extended application report shall include the following information as a minimum. A clear distinction shall be made between

data provided by the sponsor and data determined by the test or by the extended application standard.

a) Reference to the test method(s), extended application standard and any relevant technical specification;

b) Name and address of the body issuing the extended application report;

c) Date and identification number of the extended application report;

d) Name and address of the sponsor;

e) Dates, identification numbers and bodies who have issued test report(s) used in this report and date(s) of test(s);

f) Name and address of the manufacturer/supplier, if known;

g) Identification of the technical specification, product/product family and intended use;

h) Description of the sampling procedure used in the tests forming the basis of the extended application, where relevant, end use application and intended use;

i) General description of the product/product family tested and extended application standard applied (including density, mass per unit area and thickness, together with the details of the construction of the test specimen);

j) Description of substrate and fixing to the substrate (if used) and end use condition;

k) Details of conditioning and ageing, if relevant;

l) Any deviations from the test method(s) as reported in the test report(s);

m) Test results in accordance with the actual test method(s) of concern, referenced in a);

n) Any additional supporting data used as identifying extended application standard (including identification/reference of this data), all relevant information, test standards, deviation from standards;

o) Detailed description on application of extended application standard; all the extensions shall individually reference the clause of the extended application standard, with justification for any combination of parameter changes by reference to the relevant clause in the extended application standard;

p) Extended application results;

q) Summary of results including application ranges;

r) Additional statements ('The extended application results relate to the behaviour of a product/product family or building element under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product/product family or building element in use').

Annex A
(normative)

Format for an extended application report — Reaction to fire

NOTE The text for guidance is shown in *italic.*

Date and identification number of the report

Logo/Letterhead of the body issuing this extended application report

NOTE When used for CE-marking purposes this body shall be notified.

OWNER OF THIS REPORT

Address

This extended application report concerns test results obtained in accordance with Test Method EN *YYYY:200X: …*

The extended application process is carried out in conformity with the following extended application standard: CEN/TS 15117: *Guidance on direct and extended application*.

The extended application process also applies rules, if any, as defined in the following product standard(s) and/or ETAG:

EN PPPP:200X: …

ETAG XX:200X: …

Details of the product concerned

Nature

Product Technical Specifications, if any:

Product family:

Intended use:

End use application:

Description

Description of the product, including substrate mounting and fixing. The information shall be sufficiently detailed to identify the product. It shall include all information required by the relevant test standard (including density, mass per unit area and thickness, together with the form of construction of the test specimen).

Test reports and test results in support of this extended application

Test reports

Name of laboratory	Name of sponsor	Test report ref. no.	Date

Deviations from the test standard, if any:

Test samples

Ageing, if relevant:

Test report ref. no.	Sampling procedure	Conditioning	Number of samples tested

Test results in accordance with this test method

Reproduce for each test report used in support of this extended application the results for all parameters relevant for the extended application of the product.

Additional supporting data used in the extended application process (if any)

See 5.3.1. information has to be provided to the equivalent detail as for the test report information given above.

Extended application

Principles applied for the extension of the field of application

This extended application procedure is based on: *select method(s) used*

Method 1: Established influence(s) of product and end use parameters in accordance with:

— CEN/TS 15117:2005, Annex A

— product Technical Specification …

and/or:

Method 2: Additional test results on one product/end use parameter in accordance with CEN/TS 15117:2005 Subclause 6.2.1

or:

Method 3: Additional test results on several product/end-use parameters in accordance with CEN/TS 15117:2005, Subclause 6.2.2

and/or:

Method 4: Calculation methods in accordance with CEN/TS 15117:2005, Subclause 6.3.

Procedure

If using ‘method 1’

List the product and end use parameters for which an extension is claimed and copy the relevant statement from CEN/TS 15117 or from the relevant product Technical Specification. All extensions shall individually reference the clause of the extended application standard or product Technical Specification with justification for any combination of parameter changes by reference to these documents.

If using ‘method 2’

Specify/demonstrate here the relationship between the fire performance parameter and the varying product/end use application parameters as specified in CEN/TS 15117:2005, Subclause 6.2.1.

If using ‘method 3’

Specify/demonstrate here the experimental plan or empirical approach used to determine the relationship between the fire performance parameters and the varying product/end use parameters as specified in CEN/TS 15117:2005, Subclause 6.2.2.

If using ‘method 4’

Specify here the EN standard calculation method(s) shown to be valid for the intended range of parameter(s).

Extended application results

Application range — product family

Specify for each product parameter and end use application parameter the range(s) covered by this extended application report.

Fire performance parameters

Reproduce the results applicable for the defined product range(s) under the same (tabulated) format as specified in the relevant test standard.

Additional statement

The extended application results relate to the behaviour of a product/product family under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product/product family in use.

Annex B
(normative)

Format for an extended application report — Fire resistance

NOTE The text for guidance is shown in *italic.*

Date and identification number of this report

Logo/Letterhead of the body issuing this extended application report

NOTE When used for CE-marking purposes this body shall be notified.

OWNER OF THIS REPORT

Address

This extended application report concerns test results obtained in accordance with Test Method EN *YYYY:200X: …*

The extended application process is carried out in conformity with the following extended application standard: *EN …: Title.*

The extended application process also applies rules as defined in the following product standard(s) and/or ETAG:

EN PPPP:200X: …

ETAG XX:200X: …

Details of the product or building element concerned

Nature

Product Technical Specifications: …

Product family: …

Intended use:

End use application:

Description

Description of the product or building element, including edge and boundary conditions, loading if applicable. The information shall be sufficiently detailed to identify the product or building element. It shall include all information required by the relevant test standard (including all relevant characteristics of all constituent materials/components together with the form of construction of the test specimen).

Test reports and test results in support of this extended application report

Test reports

Name of laboratory	Name of sponsor	Test report ref. no.	Date

Deviations from the standard, if any:

Test samples

Ageing, if relevant:

Test report ref. no.	Sampling procedure	Conditioning	Pre-fire tests

Test results in accordance with this test method

Reproduce for each test report used in support of this extended application the results for all values of the parameters relevant for the extended application of the product or building element.

Additional supporting test data used in the extended application process (if any)

See 5.3.1; information has to be provided to the equivalent detail as for the test report information given above

Extended application

Principles applied for the extension of the field of application

This extended application procedure is based on: *select method(s) used*

Method 1: Established influence(s) of product and end use parameters in accordance with:

— the relevant extended application standard *EN ...*

— product Technical Specification …

and/or:

Method 2: Additional test results on one product/end use parameter

or:

Method 3: Additional test results on several products/end use parameters

and/or:

Method 4: Calculation methods in accordance with:

— extended application standard EN ...

— Product Technical Specification

Procedure

If using ‘method 1’

List the product and end-use parameters for which an extension is claimed and copy the relevant statement from the relevant extended application Standard or from the relevant product Technical Specification. All extensions shall individually reference the clause of the extended application standard or product Technical Specification with justification for any combination of parameter changes by reference to these documents.

If using ‘method 2’

Specify/demonstrate here the relationship between the fire performance parameter and varying product/end-use parameter.

If using ‘method 3’

Specify here the experimental plan or empirical approach used to determine the relationship between the fire performance parameters and the varying product/end-use parameters.

If using ‘method 4’

Specify here the EN standard calculation method(s) shown to be valid for the intended range of parameter(s).

Extended application results

Application range — product family

Specify for each product parameter and end use application parameter the range(s) covered by this extended application report.

Fire performance parameters

Reproduce the results applicable for the defined product range(s) under the same (tabulated) format as specified in the relevant test standard.

Additional statement

The extended application results relate to the behaviour of a product/product family under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product/product family in use.

Annex C
(normative)

Format for an extended application report — External fire exposure to roofs

NOTE The text for guidance is shown in *italic.*

Date and identification number of this report

Logo/Letterhead of the body issuing this extended application report

NOTE When used for CE-marking purposes this body shall be notified.

OWNER OF THIS REPORT

Address

This extended application report concerns test results obtained in accordance with Test Method ENV 1187: *Test method no. ...: Method with ...*

The extended application process is carried out in conformity with the following extended application standard: *EN ….: Title.*

The extended application process also applies rules as defined in the following product standard(s) and/or ETAG:

EN PPPP:200X: …

ETAG XX:200X: …

Details of the product concerned

Nature

Product Technical Specifications: …

Product family: …

Description

Description of the product and the roof, i.e. the roof covering and sealing system, including any insulating layers or vapour barriers together with their supporting elements, including attachment (glued, mechanically fastened, etc.) and roof lights or other closures for roof apertures that are intended to provide a weatherproof surface. The information shall be sufficiently detailed to identify the product. It shall include all information required by the relevant test standard (including all relevant characteristics of all constituent materials/components together with the form of construction of the test specimen).

Test reports and test results in support of this extended application report

Test reports

Name of laboratory	Name of sponsor	Test report ref. no.	Date

Deviations from the test standard, if any:

Test samples

Ageing, if relevant:

Test report ref. no.	Sampling procedure	Conditioning	Number of samples tested

Test results in accordance with this test method

Reproduce for each test report used in support of this extended classification the results for all values of the parameters relevant for the classification of the product.

Additional supporting test data used in the extended application process (if any)

See 5.3.1; information has to be provided to the equivalent detail as for the test report information given above.

Extended application

Principles applied for the extension of the field of application

This extended application procedure is based on:

Established influence(s) of product and end use parameters in accordance with:

— extended application Standard EN ...

— product Technical Specification ...

Procedure

List the product and all end-use parameters for which an extension is claimed. Identify the relevant statement from the extended application Standard EN ... and from the relevant product Technical Specification.

All extensions shall individually reference the clause of the extended application Standard or product Technical Specification with justification for any combination of parameter changes by reference to these standards or Technical Specifications.

Extended application results

Application range — product family

Specify for each product parameter and end use application parameter the range(s) covered by this extended application report.

Fire performance parameters

Reproduce the results applicable for the defined product range(s) under the same (tabulated) format as specified in the relevant test standard.

Additional statement

The extended application results relate to the behaviour of a product/product family under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product/product family in use.

Bibliography

[1] (F)prEN 15080 (all parts), *Extended application of results from fire resistance tests* [for tests on loadbearing elements; several parts in preparation]

[2] (pr)EN 15254 (all parts), *Extended application of results from fire resistance tests — Non-loadbearing walls* [several parts in preparation]

[3] ((F)pr)EN 15269 (all parts), *Extended application of test results for fire resistance and/or smoke control for door, shutter and openable window assemblies, including their elements of building hardware* [several parts in preparation]

[4] ENV 1187, *Test methods for external fire exposure to roofs*

[5] 2000/367/EC: Commission Decision of 3 May 2000 implementing Council Directive 89/106/EEC as regards the classification of the resistance to fire performance of construction products, construction works and parts thereof (notified under document number C(2000) 1001), OJ L 133, 6.6.2000, p. 26–32

[6] 2003/629/EC:Commission Decision of 27 August 2003 amending Decision 2000/367/EC establishing a classification system for resistance-to-fire performance for construction products, as regards the inclusion of smoke and heat control products, OJ L 218, 30.8.2003, p. 51–54

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