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SIST EN 15269-1:2010

01-junij-2010

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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 - Part 1: General requirements

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Erweiterter Anwendungsbereich von Prüfergebnissen zur Feuerwiderstandsfähigkeit und/oder Rauchdichte von Feuerschutzabschlüssen und Fenstern einschließlich ihrer Beschläge - Teil 1: Allgemeine Anforderungen

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Application étendue des résultats d'essais en matière de résistance au feu et/ou d'étanchéité à la fumée des blocs-portes, blocs-fermetures et ouvrants de fenêtre, y compris leurs éléments de quincaillerie intégrés - Partie 1: Exigences générales

Ta slovenski standard je istoveten z: EN 15269-1:2010

ICS:

13.220.50	Požarna odpornost gradbenih materialov in elementov	Fire-resistance of building materials and elements
91.060.50	Vrata in okna	Doors and windows

SIST EN 15269-1:2010 **en,fr,de**

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EUROPEAN STANDARD

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English Version

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 - Part 1: General requirements

Application étendue des résultats d'essais en matière de résistance au feu et/ou d'étanchéité à la fumée des blocs-portes, blocs-fermetures et ouvrants de fenêtre, y compris leurs éléments de quincaillerie intégrés - Partie 1: Exigences générales

Erweiterter Anwendungsbereich von Prüfergebnissen zur Feuerwiderstandsfähigkeit und/oder Rauchdichtigkeit von Türen, Toren und Fenstern einschließlich ihrer Baubeschläge - Teil 1: Allgemeine Anforderungen

This European Standard was approved by CEN on 23 January 2010.

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Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 15269-1:2010) 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 September 2010, and conflicting national standards shall be withdrawn at the latest by September 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.

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Introduction

This document is one of a series of standards listed below and intended to be used for the purpose of producing an extended application report based on the evaluation of one or more fire resistance and/or smoke control tests. These standards may also be used to identify the best selection of test specimens required to cover a wide range of product variations.

EN 15269, *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*, consists of the following parts:

— *Part 1: General requirements*

— *Part 2: Fire resistance of hinged and pivoted steel doorsets* (in preparation)

— *Part 3: Fire resistance of hinged and pivoted timber doorsets and openable timber framed windows* (in preparation)

— *Part 7: Fire resistance for steel sliding doorsets*

— *Part 10: Fire resistance of steel rolling shutters* (in preparation)

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— *Part 11: Fire resistance of operable fabric curtains* (in preparation)

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— *Part 20: Smoke control for hinged and pivoted steel, timber and metal framed glazed doorsets*

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A review of the doorset construction parameters can indicate that one or more characteristics may be improved by a particular parameter variation. All evaluations shall be made on the basis of retaining the fire resistance classifications obtainable from testing to EN 1634-1, including those lower than the test duration, or the smoke control classifications obtainable from testing to EN 1634-3. However, this will never lead to an increased classification for any specific fire or smoke performance parameter beyond that achieved during any one test unless specifically identified in the relevant Construction Parameter Variation tables within this series of standards.

The classification of the resistance to fire of door, shutter and openable window assemblies foresees the addition of the symbol "C" indicating that the product also satisfies the requirements for durability of self-closing. The "C" classification is complemented by the digits 0 to 5 according to the use category on the basis of details included in the relevant product standards. The effect on the "C" classification following an extended application process is not addressed in this series of standards.

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1 Scope

This European Standard sets out the general principles for the extended application of test results obtained on fire resisting and smoke control doorsets, i.e. the types of pedestrian and industrial doors and openable windows listed in the Introduction above when tested in accordance with EN 1634-1 and/or EN 1634-3.

This document provides the general principles which are intended to be used in conjunction with the relevant part of EN 15269 depending upon the specific product type to be evaluated.

The rules to evaluate the field of direct application of fire resisting or smoke control door, shutter and openable window assemblies are given in EN 1634-1 and EN 1634-3 respectively and are based on the results of a single test. These rules relate to the more common forms of product constructions for which experience of testing has provided the knowledge that such variations can be safely accepted. The extent of the permitted variations is generally conservative and is based on the minimum level of common agreement achieved.

This European Standard identifies the principles to be followed during the preparation of the subsequent product related standards of the EN 15269 series which define the rules for the permitted variations of products from the tested specimen. These rules, which are created in a committee by agreed expert opinion based on experience of fire resistance testing and interpolation of test results, will form the basis of the field of extended application. When these rules are applied by a body suitably notified for the purpose, they will lead to a classification suitable for the application of a CE marking to the modified product.

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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.

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EN 1363-1:1999, *Fire resistance tests – Part 1: General requirements*

EN 1634-1:2008, *Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware — Part 1: Fire resistance tests for doors, shutters and openable windows*

EN 1634-3:2004, *Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware — Part 3: Smoke control test for door and shutter assemblies*

EN 12519:2004, *Windows and pedestrian doors — Terminology*

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

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

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

3 Definitions

For the purposes of this document, the definitions given in EN 1363-1:1999, EN 1634-1:2008, EN 1634-3:2004, EN 12519:2004 and EN ISO 13943:2000 and the following apply.

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3.1
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 testing of a number of specimens)

NOTE A test result is expressed in terms of one or more fire performance parameter(s).

3.2
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 application(s)

3.3
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 standard

3.4
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 for fire resistance, for reaction to fire and for external fire exposure to roofs are specified in Commission Decisions (2000/367/EC, 2000/147/EC and 2001/671/EC as respectively amended).

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3.5
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

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NOTE Such dialogue should take place within a recognised and properly constituted forum, such as CEN/TC 127 or the CPD GNB FSG. These agreed expert opinions are then transformed into rules that may form the basis of extended application. Agreed expert opinion will lead to a classification suitable for the application of CE marking.

3.6
expert judgement
view of a recognised expert in a particular fire test, and the 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 the extended application for CE marking but may be obtained by manufacturers as a voluntarily judgement outside of CE marking.

3.7
hinged and pivoted steel doorset or openable window
doorset or openable window with a leaf (ves) constructed from steel and for which the hinges or pivots are attached directly to the steel leaf which may be prepared to incorporate a glass vision panel

3.8
hinged and pivoted timber doorset or openable window
doorset or openable window with a leaf (ves) constructed from timber based material and for which the hinges or pivots are attached directly to the timber leaf which may be prepared to incorporate a glass vision panel

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3.9
hinged and pivoted metal framed glazed doorset or openable window
doorset or openable window with a leaf (ves) constructed from proprietary steel or aluminium designed to incorporate large areas of glass and where the hinges or pivots are attached directly to the metal profile section

3.10
hinged and pivoted glass doorset
doorset where the leaf (ves) is a glass panel which may or may not have a decorative perimeter section attached, but where the hinges or pivots are attached directly to the glass panel

3.11
sliding timber doorset
doorset with a leaf (ves) constructed from one or more panels of timber material where the supporting elements are connected to the timber leaf

3.12
sliding steel doorset
doorset with a leaf (ves) constructed from one or more panels of steel material where the supporting elements are connected to the steel leaf

3.13
horizontally folding timber doorset
doorset with a leaf (ves) constructed from a series of timber panels where any hinges or supporting elements are connected to the timber panels

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3.14
horizontally folding steel doorset
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doorset with a leaf (ves) constructed from a series of steel panels, with or without a lattice based gate support, where any hinges or supporting elements are connected to the steel panels or gate frame structure

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3.15
steel rolling shutter
doorset with a leaf constructed from a series of lateral steel sections which are made to coil around a supporting barrel or bar during the opening operation

3.16
openable fabric curtain
doorset with a leaf constructed from woven material combined with other materials in one or more sections

NOTE The complete assembly includes any frames and/or guides.

4 General principles of extended application for fire resisting and/or smoke control door, shutter and openable window assemblies

The rules for the extended application of fire resisting and/or smoke control doorsets and openable windows are divided into the following basic construction types:

— hinged and pivoted doors;

— openable windows;

— sliding doors;

— horizontally folding doors;

— rolling shutters;