

**EN 15269-20:2020**



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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 20: Smoke control for doors, shutters, operable fabric curtains and openable windows**

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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 20: Smoke control for doors, shutters,  
operable fabric curtains and openable windows**

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 20 : Étanchéité à la fumée des portes, fermetures, rideaux en toile manœuvrables et ouvrants de fenêtre

Erweiterter Anwendungsbereich von Prüfergebnissen zur Feuerwiderstandsfähigkeit und/oder Rauchdichtigkeit von Türen, Toren und Fenstern einschließlich ihrer Baubeschläge - Teil 20: Rauchdichtigkeit von Türen, Toren, Abschlüssen und Fenstern

This European Standard was approved by CEN on 27 April 2020.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Turkey and United Kingdom.



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

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

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## European foreword

This document (EN 15269-20:2020) 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 2021, and conflicting national standards shall be withdrawn at the latest by March 2021.

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 15269-20:2009.

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

In comparison with EN 15269-20:2009, the following changes have been made:

- Clause 1, "Scope":
  - revised,
  - hinged and pivoted (e.g. metal, timber, framed glazed) doors and operable windows of single or double leaf, added,
  - metal rolling shutters and operable fabric curtains (excluding overlapping systems), added;
- Clause 2, "Normative references" updated;
- Clause 3, "Terms and definitions" revised;
- Clause 4, "Determination of the field of extended application" revised;
- Annex A (normative) "Construction parameter variations":
  - introduction revised,
  - Table A.1 and figure to Table A.1 revised,
  - new Table A.2 and figure to Table A.2 added,
  - new Table A.3 and figure to Table A.3 added;
- new Annex B (normative) "Arrangements for hinged and pivoted doorsets incorporating side and/or overpanels" added;
- new Annex C (normative), "Calculation methods" added;
- new Annex D (normative) "Stress calculation method for metal rolling shutter and fabric curtain assemblies" added;

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- new Annex E (informative) "Examples for stress calculations for load-bearing components of metal rolling shutter and fabric curtain assemblies" added;
- complete editorial and contented revision.

The EN 15269 series of standards *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* currently consists of:

- *Part 1: General requirements;*
- *Part 2: Fire resistance of hinged and pivoted steel doorsets;*
- *Part 3: Fire resistance of hinged and pivoted timber doorsets and openable timber framed windows;*
- *Part 5: Fire resistance of hinged and pivoted metal framed glazed doorsets and openable windows;*
- *Part 6: Fire resistance of sliding timber doorsets [in preparation];*
- *Part 7: Fire resistance for steel sliding doorsets;*
- *Part 10: Fire resistance of steel rolling shutter assemblies;*
- *Part 11: Fire resistance for operable fabric curtains;*
- *Part 20: Smoke control for doors, shutters and openable windows [the present document].*

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, Turkey and the United Kingdom.

## Introduction

This document is one of a series of standards listed above and is 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.

A review of the doorset construction parameters can indicate that one or more characteristics may be improved by a particular parameter variation. All evaluations need to be made on the basis of retaining the smoke control classifications obtainable from testing to EN 1634-3. However, this will never lead to an increased classification for any specific 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.

Issued extended application reports after prior versions of the series EN 15269 (e.g. EN 15269-20:2009) stay valid as long as there is no change in the construction(s) described in the report.

**EN 15269-20:2020 (E)****1 Scope**

This document, which is intended to be read in conjunction with EN 15269-1, covers doors, shutters, openable windows and fabric curtains of any material and of the following types:

- hinged and pivoted (e.g. metal, timber, framed glazed) doors and openable windows of single or double leaf (Table A.1);
- horizontally and vertically moving steel sliding doors of single or double leaf with and without pass doors, including telescopic doorsets (Table A.2);
- metal rolling shutters and operable fabric curtains (excluding overlapping systems) (Table A.3).

The following construction products are not covered by this standard:

- unframed glass doors and openable windows;
- sectional doors (including stacking doors);
- vertically and horizontally folding doors;
- horizontally and vertically moving timber sliding doors;
- horizontally and vertically moving framed sliding doors (metal or timber).

In this document, whenever doors are mentioned, the whole range of doors, shutters, openable windows and operable fabric curtains is included or otherwise mentioned.

This document prescribes the methodology for extending the application of test results obtained from test(s) conducted in accordance with EN 1634-3.

Subject to the completion of the appropriate test or tests, the extended application can cover all or some of the following examples:

- Ambient Temperature Smoke Control ( $S_a$ ) and Medium Temperature Smoke Control ( $S_{200}$ ) classifications;
- leaf/leaves;
- wall/ceiling fixed elements;
- glazed elements, louvres and/or vents;
- side, transom or overpanels;
- items of building hardware;
- decorative finishes;
- intumescent, smoke, draught or acoustic seals;
- alternative supporting construction(s).