



Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 17020-5:2023

Extended application of test results on durability of self-closing for fire resistance and/or smoke control doorsets and openable windows - Part

Erweiterte Anwendung von
Prüfergebnissen zur Dauerhaftigkeit der
Selbstschließung für Feuerschutz- und/
oder Rauchschutztüren und zu öffnende

Application étendue des résultats d'essai
de durabilité de fermeture automatique
pour les blocs-portes coupe-feu et/ou
pare-fumée et les fenêtres ouvrantes -

03/2023



National Foreword

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English Version

Extended application of test results on durability of self-closing for fire resistance and/or smoke control doorsets and openable windows - Part 5: Durability of self-closing of hinged and pivoted timber doorsets

Application étendue des résultats d'essai de durabilité de fermeture automatique pour les blocs-portes coupe-feu et/ou pare-fumée et les fenêtres ouvrantes - Partie 5 : Durabilité de la fermeture automatique des blocs-portes battants et pivotants en bois

Erweiterter Anwendungsbereich von Prüfergebnissen zur Dauerhaftigkeit des Selbstschließens für Feuerschutz- und/oder Rauchschutztüren und zu öffnende Fenster - Teil 5: Dauerhaftigkeit der Selbstschließung von Drehflügeltüren und zu öffnenden Fenstern aus Holz

This European Standard was approved by CEN on 6 February 2023.

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European foreword

This document (EN 17020-5:2023) 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of an identical text or by endorsement, at the latest by September 2023, and conflicting national standards shall be withdrawn at the latest by September 2023.

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.

A list of all parts in the EN 17020 series and the EN 15269 series can be found on the CEN website.

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Introduction

The EN 15269 series of standards covering extended application of test results for fire resistance and/or smoke control for doorsets, openable window and shutter assemblies, including their items of building hardware, does not yet include the durability of self-closing following an extended application process. This document is one of the EN 17020 series of standards intended to be used for the purpose of producing an extended application report based on the evaluation of one or more durability of self-closing tests. These European standards may also be used to identify the best selection of test specimens required to cover a wide range of product variations.

1 Scope

This document is applicable to single and double leaf, hinged and pivoted doorsets with timber-based leaves or timber framed glazed door leaves, covered by EN 15269-3 and / or EN 15269-20.

This document prescribes the methodology for extending the application of test results obtained from durability of self-closing test(s) conducted in accordance with EN 1191 and or EN 12605:2000, as appropriate.

Subject to the completion of the appropriate self-closing test(s), the extended application can cover all or some of the following examples:

- door leaf; pass doors;
- glazed doorsets including vision panels and framed glazed doorsets;
- side, transom and/or overpanels;
- ventilation grilles and/or louvres;
- wall or ceiling fixed elements (door frame/suspension system);
- glazing for door leaf, side, transom and flush over panels;
- items of building hardware;
- decorative finishes;
- intumescent, strips, smoke, draught or acoustic seals;
- alternative supporting construction(s).

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 179, *Building hardware - Emergency exit devices operated by a lever handle or push pad, for use on escape routes - Requirements and test methods*

EN 1125, *Building hardware - Panic exit devices operated by a horizontal bar, for use on escape routes - Requirements and test methods*

EN 1154, *Building hardware - Controlled door closing devices - Requirements and test methods*

EN 1155, *Building hardware - Electrically powered hold-open devices for swing doors - Requirements and test methods*

EN 1158, *Building hardware - Door coordinator devices - Requirements and test methods*

EN 1191, *Windows and doors - Resistance to repeated opening and closing - Test method*

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

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

EN 1634-3, *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 1935:2002, *Building hardware - Single-axis hinges - Requirements and test methods*

EN 12209, *Building hardware - Mechanically operated locks and locking plates - Requirements and test methods*

EN 12519, *Windows and pedestrian doors - Terminology*

EN 12605:2000, *Industrial, commercial and garage doors and gates - Mechanical aspects - Test Methods*

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

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

EN 13637, *Building hardware - Electrically controlled exit systems for use on escape routes - Requirements and test methods*

EN 14846, *Building hardware - Locks and latches - Electromechanically operated locks and striking plates - Requirements and test methods*

EN 15269-1, *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*

EN 15269-3, *Extended application of test results for fire resistance and/or smoke control for doorsets, shutter and openable window assemblies, including their elements of building hardware - Part 3: Fire resistance of hinged and pivoted timber doorsets and openable timber framed windows*

EN 15269-20, *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*

EN 15685¹, *Building hardware - Requirements and test methods - Multipoint locks, latches and locking plates*

EN 16034, *Pedestrian doorsets, industrial, commercial, garage doors and openable windows - Product standard, performance characteristics - Fire resisting and/or smoke control characteristics*

EN 16035, *Hardware performance sheet (HPS) - Identification and summary of test evidence to facilitate the inter-changeability of building hardware for application to fire resisting and/or smoke control doorsets and/or openable windows*

EN ISO 13943, *Fire safety - Vocabulary (ISO 13943)*

¹ Under preparation. Stage at the time of publication: prEN 15685:2023.

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1191, EN 1363-1, EN ISO 13943, EN 1634-1, EN 1634-3, EN 12519, EN 15269-1, EN 15269-3 and EN 15269-20 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp/ui>

3.1

full scale test

test of a full size doorset in accordance with EN 1191

3.2

core

material fitted centrally within the thickness of a door leaf which may consist of a single sheet of material or a combination either of sheets of the same material or layers of different materials

3.3

effective rebate depth

dimension of the door leaf thickness of overlapping adjacent edges of door leaf relative to the door frame, transom or side panel or flush overpanel

3.4

panel

component of a door leaf separated from other elements by joints which break through the total door thickness

Note 1 to entry: A door leaf can consist of one or more panels.

3.5

exposed intumescent seal

intumescent seal which is fitted in the perimeter of the leaf or in the door frame rebate and is visible when the leaf is in the open position

3.6

concealed intumescent seal

intumescent seal which is fitted in the perimeter of the leaf or in the door frame rebate and is not visible when the leaf is in the open position, including seals behind veneers and laminates

3.7

facing

decorative facing

outer layer of material on the leaf or panel normally only used for decorative, not for structural, purposes

3.8

subfacing

layer (or layers) of material between the core and the facing in the leaf or panel normally used for structural purposes

3.9

add

to put an additional component to the doorset which has not been tested as a part of the original doorset