BSI Standards Publication

Building hardware — Mechanically operated locks and locking plates — Characteristics and test methods

bsi.

National foreword

This British Standard is the UK implementation of EN 12209:2024. It supersedes BS EN 12209:2016, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/538/4, Building hardware.

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

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English Version

Building hardware - Mechanically operated locks and locking plates - Characteristics and test methods

Quincaillerie pour le bâtiment - Serrures mécaniques et gâches - Exigences et méthodes d'essai

Schlösser und Baubeschläge - Mechanisch betätigte Schlösser und Schließbleche - Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 27 February 2024.

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European foreword

This document (EN 12209:2024) has been prepared by Technical Committee CEN/TC 33 “Doors, windows, shutters, building hardware and curtain walling”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by June 2025, and conflicting national standards shall be withdrawn at the latest by September 2026.

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 12209:2016.

EN 12209:2024 includes the following significant technical changes with respect to EN 12209:2016:

— Introduction deleted;

— Clause 4 changed from requirements to characteristics;

— figures clarified;

— durability grades changed from threshold value to range;

— environmental class B added;

— Annex A moved to subclauses 4.5, 5.8 and 6.2.4;

— the previous Annex B is now modified in the new Annex A;

— the previous Annex C is now modified in the new Annex B;

— Annex ZA and Clause 6 deleted;

— Clause 7 renumbered to Clause 6;

— Clause 8 renumbered to Clause 7;

— changes from version 2004 to version 2016 related to essential characteristics:

— the following clauses were re-numbered without any change of performance:

  — self closing ability changed to Self closing – ability to close and keep the door in closed position;

    — return force of latch bolt, from 5.1.2 to 4.1.3;

    — Closing force, from 5.4.2 to 4.4.2 Door closing force;

  — Durability of self closing action changed to Durability of self closing against aging and degradation;

    — Durability of latch action, from 5.3.1 to 4.3.1;

  — Ability to maintain door in closed position and not contribute the spread of fire changed to Sustainability for use on fire resistance and/or smoke control door set;

- Suitability for use on fire/smoke doors, from 5.5 to 4.5 Sustainability for use on fire resistance and/or smoke control door set;

- Control of dangerous substances changed to Dangerous substances;

- Dangerous substances, from 5.1.1 to 4.1.2.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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, Türkiye and the United Kingdom.

Introduction

The intended use for products according to this document is:

a) for use in doors in buildings;

b) for use on fire and smoke compartmentation doors fitted with door closing devices, to enable such doors to close reliably and thus achieve self-closing in the event of fire;

c) for use on closed fire doors to maintain the fire integrity of the door assembly.

This document is one of a series of European standards dedicated to building hardware products.

European standards for mechanically operated multi-point locks (EN 15685) and for electromechanically operated locks and locking plates (EN 14846) are also available.

The performance tests incorporated in this standard are considered to be reproducible and as such will provide a consistent and objective assessment of the performance of these products throughout CEN Members.

1 Scope

This document specifies product characteristics and test methods of mechanically operated locks and their locking plates.

This document covers mechanically operated locks and their locking plates which are either manufactured and placed on the market in their entirety by one producer or assembled from sub-assemblies produced by more than one producer and designed to be used in combination.

This document does not cover assessment of the contribution of the product to the fire resistance of specific fire resistance and/or smoke control door set assemblies.

This document is not applicable to mechanically/electromechanically cylinders, handles, locks for windows, padlocks, locks for safes, furniture locks or prison locks.

This document does not specify mechanically operated multipoint locks and their locking plates which are specified by EN 15685.

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 1303, *Building hardware — Cylinders for locks — Requirements and test methods*

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 1634-2, *Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware — Part 2: Fire resistance characterisation test for elements of building hardware*

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 1670:2007, *Building hardware — Corrosion resistance — Requirements and test methods*

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*

ISO 10899, *High-speed steel two-flute twist drills — Technical specifications*

3 Terms and definitions, symbols and abbrevations

3.1 Terms and definitions

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

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

— ISO Online browsing platform: available at https://www.iso.org/obp/

— IEC Electropedia: available at https://www.electropedia.org/