

Dørsæt, vinduer, curtain walling, gitre og skodder – Indbrudssikring – Krav og klassifikation

Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Requirements and classification

A large, thin, black curved line that starts at the bottom left, rises to a peak in the middle, and then descends towards the bottom right, spanning across the lower half of the page.

DANSK STANDARD
Danish Standards Association

Göteborg Plads 1
DK-2150 Nordhavn
Tel: +45 39 96 61 01
dansk.standard@ds.dk
www.ds.dk

DS/EN 1627:2021

København

DS projekt: M332140

ICS: 13.310; 91.060.50

Første del af denne publikations betegnelse er:

DS/EN, hvilket betyder, at det er en europæisk standard, der har status som dansk standard.

Denne publikations overensstemmelse er:

IDT med: EN 1627:2021

DS-publikationen er på engelsk.

Denne publikation erstatter: [DS/EN 1627:2011](#)

DS-publikationstyper

Dansk Standard udgiver forskellige publikationstyper.

Typen på denne publikation fremgår af forsiden.

Der kan være tale om:

Dansk standard

- standard, der er udarbejdet på nationalt niveau, eller som er baseret på et andet lands nationale standard, eller
- standard, der er udarbejdet på internationalt og/eller europæisk niveau, og som har fået status som dansk standard

DS-information

- publikation, der er udarbejdet på nationalt niveau, og som ikke har opnået status som standard, eller
- publikation, der er udarbejdet på internationalt og/eller europæisk niveau, og som ikke har fået status som standard, fx en teknisk rapport, eller
- europæisk præstandard

DS-håndbog

- samling af standarder, eventuelt suppleret med informativt materiale

DS-hæfte

- publikation med informativt materiale

Til disse publikationstyper kan endvidere udgives

- tillæg og rettelsesblade

DS-publikationsform

Publikationstyperne udgives i forskellig form som henholdsvis

- fuldtekstpublikation (publikationen er trykt i sin helhed)
- godkendelsesblad (publikationen leveres i kopi med et trykt DS-omslag)
- elektronisk (publikationen leveres på et elektronisk medie)

DS-betegnelse

Alle DS-publikationers betegnelse begynder med DS efterfulgt af et eller flere præfikser og et nr., fx **DS 383**, **DS/EN 5414** osv. Hvis der efter nr. er angivet et **A** eller **Cor**, betyder det, enten at det er et **tillæg** eller et **rettelsesblad** til hovedstandard, eller at det er indført i hovedstandard.

DS-betegnelse angives på forsiden.

Overensstemmelse med anden publikation:

Overensstemmelse kan enten være IDT, EQV, NEQ eller MOD

- **IDT:** Når publikationen er identisk med en given publikation.
- **EQV:** Når publikationen teknisk er i overensstemmelse med en given publikation, men præsentationen er ændret.
- **NEQ:** Når publikationen teknisk eller præsentationsmæssigt ikke er i overensstemmelse med en given standard, men udarbejdet på baggrund af denne.
- **MOD:** Når publikationen er modificeret i forhold til en given publikation.

EUROPEAN STANDARD

EN 1627

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2021

ICS 13.310; 91.060.50

Supersedes EN 1627:2011

English Version

Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Requirements and classification

Blocs-portes pour piétons, fenêtres, façades
rideaux, grilles et fermetures - Résistance à
l'effraction - Prescriptions et classification

Türen, Fenster, Vorhangfassaden, Gitterelemente
und Abschlüsse - Einbruchhemmung -
Anforderungen und Klassifizierung

This European Standard was approved by CEN on 19 March 2021.

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: Avenue Marnix 17, B-1000 Brussels

Contents

Page

European foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Resistance classification	7
5 Glazing	7
6 Building hardware	8
6.1 General	8
6.2 Key related security	8
6.2.1 Requirements	8
6.2.2 Application to windows	8
6.3 Attack related security	9
6.4 Building hardware assessment according to their appropriate standard	9
6.5 Assessment of building hardware not complying with Table 3 requirements	11
6.5.1 General	11
6.5.2 Additional test and tool set for building hardware not complying with Table 3	11
7 Mechanical strength	16
7.1 Static loading	16
7.2 Dynamic loading in resistance classes 1, 2 and 3	18
8 Manual burglary attempts	18
8.1 General	18
8.2 Non-key operated lockable hardware	19
9 Classification report	19
10 Installation	20
11 Test specimens	20
Annex A (informative) Recommendations for the contents of the manufacturer's installation instructions	21
Annex B (informative) Resistance classes – Classification according to EN 1627	22
Annex C (normative) Field of application	24
Annex D (normative) Procedure for testing and classification	30
Annex E (informative) Marking	32

European foreword

This document ([EN 1627:2021](#)) 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 November 2021, and conflicting national standards shall be withdrawn at the latest by November 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 1627:2011](#).

Significant changes in this revision are:

- a) Normative references updated;
- b) Scope includes electromechanical building hardware products;
- c) Clarification of the number of resistance classes (RC 1 / RC 1N);
- d) [Clause 6](#) - Building hardware re-written;
- e) New [subclause 8.2](#) – Non-key operated lockable hardware;
- f) [Annex B](#) deleted;
- g) [Annex C](#) rewritten and updated;
- h) New informative [Annex E](#) - Marking added;

This document is one of a series of standards for burglar resistant pedestrian doorsets, windows, curtain walling, grilles and shutters. The other standards in the series are:

- [EN 1628:2021](#), *Pedestrian doorsets, windows, curtain walling, grilles and shutters — Burglar resistance — Test method for the determination of resistance under static loading*;
- [EN 1629:2021](#), *Pedestrian doorsets, windows, curtain walling, grilles and shutters — Burglar resistance — Test method for the determination of resistance under dynamic loading*;
- [EN 1630:2021](#), *Pedestrian doorsets, windows, curtain walling, grilles and shutters — Burglar resistance — Test method for the determination of resistance to manual burglary attempts*.

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.

Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Requirements and classification

1 Scope

This document specifies requirements and classification systems for burglar resistant characteristics of pedestrian doorsets, windows, curtain walling, grilles and shutters. It is applicable to the following opening functions: Turning, tilting, folding, turn-tilting, top or bottom hung, sliding (horizontally and vertically), pivoted (horizontally and vertically), projecting and rolling as well as non-openable constructions. It also covers products that include items such as letter plates or ventilation grilles. It specifies requirements for the burglar resistance of a construction product (as defined in [3.1](#) of this document).

NOTE 1 — The elements of curtain walling will be assigned to group 1 to 4 product depending on their design.

This document does not directly cover the resistance of locks and cylinders to attack with picking tools. Building hardware are components of the above mentioned products and cannot be classified as such according to this document.

This document does not apply to walls and roofs, as well as for doors, gates and barriers, intended for installation in areas in the reach of persons, and for which the main intended uses are giving safe access for goods and vehicles accompanied or driven by persons in industrial, commercial or residential premises, as covered by [EN 13241:2003+A2:2016](#).

NOTE 2 — It is important that construction products that can be reached or driven through by vehicles are protected by appropriate measures such as barriers, extensible ramps, etc.

The requirements to an electronic security system (e.g. access control system) to control electromechanical locks and strikes according to [EN 14846:2008](#) are not in the scope of this document.

NOTE 3 — Locks and striking plates according to [EN 14846:2008](#) needs an access control system for authorized and secure access (comparable to a lock cylinder). The transmission of the signal between the lock and the access control system (e.g. wiring) needs also consideration. (The signal is transmitted in encrypted form or is not accessible during the manual attack attempt.) Upcoming revisions of this document might include such a reference.

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 356:1999](#), *Glass in building — Security glazing — Testing and classification of resistance against manual attack*

[EN 1303:2015](#), *Building hardware — Cylinders for locks — Requirements and test methods*

[EN 1628:2021](#), *Pedestrian doorsets, windows, curtain walling, grilles and shutters — Burglar resistance — Test method for the determination of resistance under static loading*

[EN 1629:2021](#), *Pedestrian doorsets, windows, curtain walling, grilles and shutters — Burglar resistance — Test method for the determination of resistance under dynamic loading*

[EN 1630:2021](#), *Pedestrian doorsets, windows, curtain walling, grilles and shutters — Burglar resistance — Test method for the determination of resistance to manual burglary attempts*

[EN 1906:2012](#), *Building hardware — Lever handles and knob furniture — Requirements and test methods*

[EN 12209:2016](#), *Building hardware — Mechanically operated locks and locking plates — Requirements and test methods*

[EN 12216:2018](#), *Shutters, external blinds, internal blinds — Terminology, glossary and definitions*

[EN 12519:2018](#), *Windows and pedestrian doors — Terminology*

[EN 13119:2016](#), *Curtain walling — Terminology*

[EN 13126-3:2011](#), *Building hardware — Hardware for windows and door-height windows — Requirements and test methods — Part 3: Handles, primarily for Tilt&Turn, Tilt-First and Turn-Only hardware*

[EN 13241:2003+A2:2016](#), *Industrial, commercial, garage doors and gates — Product standard, performance characteristics*

[EN 14846:2008](#), *Building hardware — Locks and latches — Electromechanically operated locks and striking plates — Requirements and test methods*

[EN 15684:2020](#), *Building hardware — Mechatronic cylinders — Requirements and test methods*

[EN 15685:—](#),¹⁾*Building hardware — Multipoint locks, latches and locking plates — Characteristics and test methods*

[EN 16867:2020](#), *Building hardware — Mechatronic door furniture — Requirements and test methods*

[EN ISO 6508-1:2016](#), *Metallic materials — Rockwell hardness test — Part 1: Test method (ISO 6508-1:2016)*

[EN ISO 80000-1:2013](#), *Quantities and units — Part 1: General (ISO 80000-1:2009+Cor 1:2011)*

1) Under preparation. Stage at the time of publication: prEN 15685:2019.