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KLASSIFIKATSIOON

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 1627:2021 sisaldab Euroopa standardi EN 1627:2021 ingliskeelset teksti.	This Estonian standard EVS-EN 1627:2021 consists of the English text of the European standard EN 1627:2021.
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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.

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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.

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

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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of an identical text or by endorsement, at the latest by December 2021, and conflicting national standards shall be withdrawn at the latest by December 2021.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.

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)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12519:2018, EN 12216:2018, EN 13119:2016, EN ISO 80000-1:2013 and the following apply.

3.1

burglar resistance

property of pedestrian doorsets, windows, curtain walling, grilles and shutters to resist attempts of forced entry using physical force and with the aid of predefined tools into the protected room or area

3.2

burglar resistant product

complete, functioning element that, when built in and fastened or fastened and secured, has the function of resisting forced entry through the application of physical force assisted by predefined tools

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