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VASTUPIDAVUSE MÄÄRAMISEKS MANUAALSETELE
SISSEMURDMISKATSETELE

Pedestrian doorsets, windows, curtain walling, grilles
and shutters - Burglar resistance - Test method for the
determination of resistance to manual burglary
attempts

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

| | |
|---|--|
| See Eesti standard EVS-EN 1630:2021 sisaldab Euroopa standardi EN 1630:2021 ingliskeelset teksti. | This Estonian standard EVS-EN 1630:2021 consists of the English text of the European standard EN 1630:2021. |
| Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. | This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. |
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EUROPEAN STANDARD

EN 1630

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EUROPÄISCHE NORM

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ICS 13.310; 91.060.50

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English Version

Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Test method for the determination of resistance to manual burglary attempts

Blocs-portes pour piétons, fenêtres, façades rideaux, grilles et fermetures - Résistance à l'effraction - Méthode d'essai pour la détermination de la résistance aux tentatives manuelles d'effraction

Türen, Fenster, Vorhangfassaden, Gitterelemente und Abschlüsse - Einbruchhemmung - Prüfverfahren für die Ermittlung der Widerstandsfähigkeit gegen manuelle Einbruchversuche

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
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European foreword

This document (EN 1630:2021) 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 1630:2011+A1:2015.

Significant changes in this revision are:

- a) updated editions of Normative References;
- b) Annex E and Annex F added;
- c) for certain test the template E4 was added in 6.7;
- d) the figures in Annex A have been updated.

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 1627:2021 *Pedestrian doorsets, windows, curtain walling, grilles and shutters — Burglar resistance — Requirements and classification*;
- 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*.

The manual test described in this document covers the areas of vulnerability not suitably assessed by the static loading and dynamic loading tests described in EN 1628:2021 and EN 1629:2021. Certain basic security requirements for the locks, furniture and cylinders are covered by the requirements detailed in EN 1627:2021, Table 3. These security characteristics are not re-assessed in this test standard and the attack methods and test times have been limited to reflect this.

The use of the tools detailed in the various tools sets is described in this document. This has the advantage of improving the reproducibility of the test.

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 a test method for the determination of resistance to manual burglary attempts in order to assess the 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.

This document does not directly cover the resistance of locks and cylinders to attack with picking tools. It also does not cover the attack of electric, electronic and electromagnetic operated burglar resistant construction products using surreptitious attack methods that might defeat these characteristics.

It is acknowledged that there are two aspects to the burglar resistance performance of construction products, their normal resistance to forced operation and their ability to remain fixed to the building. This test method does not evaluate the performance of the fixing to the building.

The manufacturer's installation instructions will give guidance on the fixing of the product.

An example for the contents of the manufacturer's installation instructions is given in EN 1627:2021, Annex A.

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 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.

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 1627:2021, *Pedestrian doorsets, windows, curtain walling, grilles and shutters — Burglar resistance — Requirements and classification*

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 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 ISO 10666:1999, *Drilling screws with tapping screw thread — Mechanical and functional properties (ISO 10666:1999)*

EN ISO 15480:2019, *Fasteners — Hexagon washer head drilling screws with tapping screw thread (ISO 15480:2019)*

EN ISO 15481:1999, *Cross recessed pan head drilling screws with tapping screw thread (ISO 15481:1999)*

EN ISO 15482:1999, *Cross recessed countersunk head drilling screws with tapping screw thread (ISO 15482:1999)*

EN ISO 15483:1999, *Cross recessed raised countersunk head drilling screws with tapping screw thread (ISO 15483:1999)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1627:2021, EN 12519:2018, EN 12216:2018, EN 13119:2016 and the following apply.

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

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

3.1 test specimen

complete, fully functioning construction product as detailed in the scope of this document

3.2 sub-frame

standard surrounding frame into which the test specimen is mounted for testing purpose

3.3 test rig

surrounding substantial steel frame with movable steel supports into which the sub-frames containing test specimens of various dimensions can be mounted

3.4 tool set

set of tools allocated for use for a particular resistance class

Note 1 to entry: For details of the tool set, see Clause 7 and Annex A.

3.5 rest time

time taken when the test person carrying out the manual burglary test interrupts his work for a rest

3.6 tool change time

time for the exchange or replacement of a tool or a part thereof, e.g. a defective drill, a blunt saw blade, etc.

3.7 observation time

time required for the test team to observe the test and to decide on its further execution