Building hardware - Hardware for windows and door-height windows - Requirements and test methods - Part 3: Handles, primarily for Tilt and Turn, Tilt-First and Turn-Only hardware

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 13126-3:2023 sisaldab Euroopa standardi EN 13126-3:2023 ingliskeelset teksti.	This Estonian standard EVS-EN 13126-3:2023 consists of the English text of the European standard EN 13126-3:2023.
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.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 08.02.2023.	Date of Availability of the European standard is 08.02.2023.
Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.	The standard is available from the Estonian Centre for Standardisation and Accreditation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 91.190

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 13126-3

February 2023

ICS 91.190

Supersedes EN 13126-3:2011

English Version

Building hardware - Hardware for windows and door-height windows - Requirements and test methods - Part 3: Handles, primarily for Tilt and Turn, Tilt-First and Turn-Only hardware

Quincaillerie pour le bâtiment - Exigences et méthodes d'essai des ferrures de fenêtres et portes-fenêtres - Partie 3 : Poignées, ferrures d'oscillo-battant, de battant-oscillant et d'ouvrant pivotant

Baubeschläge - Beschläge für Fenster und Fenstertüren - Anforderungen und Prüfverfahren - Teil 3: Betätigungsgriffe, insbesondere für Drehkipp-, Kippdreh- und Drehbeschläge

This European Standard was approved by CEN on 2 January 2023.

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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Ref. No. EN 13126-3:2023 E

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European foreword

This document (EN 13126-3:2023) 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 August 2023, and conflicting national standards shall be withdrawn at the latest by August 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.

This document supersedes EN 13126-3:2011.

In comparison with the previous edition, the following technical modifications have been made:

— EN 13126-3 is now independent from EN 13126-1; all necessary information is included without the need of any further information from EN 13126-1;

— several editorial changings in the wording were made for a better understanding;

— terms 3.5 'locking mechanism', 3.6 'non-key-operated locking mechanism', 3.15 'sample' and 3.16 'test rig' were added and term 3.6 'key-operated locking mechanism' was modified for better understanding;

— in 4.1, the classification system changed completely; former digits 1 (Category of use), 4 (Fire resistance), 5 (Safety in use) and 8 (Application) were deleted; former digit 2 changed into box 1 (Durability), former digit 3 changed into box 2 (Mass), former digit 6 changed into box 3 (Corrosion resistance), former digit 9 changed into box 4 (Test sizes); former digit 7 changed into box 5 (Security against burglar attack) and a new box 6 (Key related security) was added;

— in 4.2, new Grades for the number of cycles are defined; H1 (5 000), H2 (10 000) and H3 (20 000), see also 5.4;

— in 4.10, a new example was added for the new classification;

— in 5.4, new Grades for the number of cycles are defined; H1 (5 000), H2 (10 000) and H3 (20 000) in accordance with 4.2 established;

— in 5.4, the number of cycles were adapted to the newly defined Grades for the durability;

— in 5.10.6, the subclause 'Locking variations / key related security' was modified in accordance with 4.7 (requirement in grade 2 changed from ' ≤ 99' into ' ≥ 25 and ≤ 99');

— in Clause 6, the title has been modified to “…and preparation for the test”;

— in Clause 8, a new clause was added regarding marking with information from the current version of EN 13126-1.

The EN 13126 series, *Building hardware — Hardware for windows and door height windows — Requirements and test methods* consists of the following parts:

— *Part 1: Requirements common to all types of hardware;*

— *Part 2: Window fastener handles*;

— *Part 3: Handles, primarily for Tilt and Turn, Tilt-First and Turn-Only hardware*;

— *Part 4: Espagnolettes*;

— *Part 5: Devices that restrict the opening of windows and door height windows*;

— *Part 6: Variable geometry stay hinges (with or without a friction stay)*;

— *Part 7: Finger catches*;

— *Part 8: Requirements and test methods for Tilt and Turn, Tilt-First and Turn-Only hardware*;

— *Part 9: Hardware for horizontal and vertical pivot windows*;

— *Part 10: Arm-balancing systems*;

— *Part 11: Top hung projecting reversible hardware*;

— *Part 12: Side hung projecting reversible hardware*;

— *Part 13: Sash balances*;

— *Part 14: Sash fasteners*;

— *Part 15: Rollers for horizontal sliding and hardware for sliding folding windows*;

— *Part 16: Hardware for Lift and Slide windows*;

— *Part 17: Hardware for Tilt and Slide windows*;

— *Part 19: Sliding Closing Devices*.

A full contribution to the preparation of this document series has been made by the European manufacturers' organization "ARGE" and national standards bodies.

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

1 Scope

This part of the EN 13126 series specifies the requirements and test procedures for durability, strength, security and functionality of handles.

This document is applicable to Tilt and Turn, Tilt-First and Turn-Only hardware for use on windows and door-height windows.

Handles can also be used on other opening types, e.g. on In-line Sliding, Tilt and Slide, Sliding Folding, horizontal and vertical-pivoting windows.

This document is not applicable to:

a) operation devices, door handles for door latches and door locks (for this, refer to EN 1906);

b) handles with handle length > 170 mm (refer to Figure B.1).

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 1627, *Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Requirements and classification*

EN 1670, *Building hardware - Corrosion resistance - Requirements and test methods*

3 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:

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

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

3.1
handle
operating device with or without click mechanism, and where applicable with locking mechanism, with which the window hardware can be mechanically operated

3.2
window handle
operating mechanism with which the window hardware can be mechanically operated and a spindle that serves as the connecting element

3.3
geared-handle
operating mechanism with which the window hardware can be mechanically operated and a connector or fork that serves as the connecting element

3.4
click mechanism
assembly of components to position the handle in the defined click positions that correspond with the Tilt and Turn hardware's operation positions