

Writing boards for educational institutions -
Ergonomic, technical and safety requirements and
their test methods

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 14434:2023 sisaldab Euroopa standardi EN 14434:2023 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 22.11.2023.</p> <p>Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 14434:2023 consists of the English text of the European standard EN 14434:2023.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 22.11.2023.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

Writing boards for educational institutions - Ergonomic,
technical and safety requirements and their test methods

Tableaux pour établissements d'enseignement -
Exigences ergonomiques, techniques et de sécurité et
méthodes d'essai correspondantes

Wandtafeln für Bildungseinrichtungen - Ergonomische,
technische und sicherheitstechnische Anforderungen
und Prüfverfahren

This European Standard was approved by CEN on 22 October 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
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 14434:2023) has been prepared by Technical Committee CEN/TC 207 "Furniture", the secretariat of which is held by UNI.

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 May 2024, and conflicting national standards shall be withdrawn at the latest by May 2024.

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 14434:2010.

EN 14434:2023 includes the following significant technical changes with respect to EN 14434:2010:

- a) Insertion of 3 new types of writing boards (definitions in Clause 3);
- b) Insertion of dynamic stability for all mobile boards (6.3);
- c) Insertion of castor test (9.7);
- d) Insertion of requirements for white projecting boards (Annexes B and C);
- e) Insertion of requirements for interactive systems (Annexes D and E);
- f) Insertion of requirements for interactive screens (Annexes F and G);
- g) Insertion of surface flatness test (7.6 and Annex H);
- h) Insertion of vibration test (9.6 and Annex I).

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.

1 Scope

This document specifies ergonomic, technical and safety requirements for wall-mounted and free-standing writing boards, white projecting boards, interactive systems and interactive screens for use in rooms for educational and training purposes, e.g. classrooms, lecture theatres for schools, universities, etc.

This document applies to units after installation. Safety depending on the structure of the building is not included, e.g. the strength of wall-mounted boards includes only the board and its parts. The wall and the wall attachment are not included.

This document does not apply to technical aspects of connected hardware, such as computers, speakers, video cameras.

Requirements concerning electrical safety are not included.

Annex A (normative) Assessment scale for the ability to write – Five levels chalk scale

Annex B (normative) Test methods and requirements for white projecting boards

Annex C (informative) Additional test methods and requirements for white projecting boards

Annex D (normative) Test methods and requirements for interactive systems

Annex E (informative) Additional test methods and requirements for interactive systems

Annex F (normative) Test methods and requirements for interactive screens

Annex G (informative) Additional test methods and requirements for interactive screens

Annex H (normative) Surface flatness test

Annex I (informative) Vibration test

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 438-2:2016+A1:2018, *High-pressure decorative laminates (HPL) - Sheets based on thermosetting resins (usually called laminates) - Part 2: Determination of properties*

EN 1023-3:2000, *Office furniture - Screens - Part 3: Test methods*

EN 16122:2012, *Domestic and non-domestic storage furniture - Test methods for the determination of strength, durability and stability*

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:

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