SLOVENSKI STANDARD
SIST EN 14434:2024

01-februar-2024

Nadomešča:
SIST EN 14434:2010

Table za pisanje za vzgojno-izobraževalne ustanove - Ergonomske, tehnične in varnostne zahteve ter preskusne metode

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

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

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

Ta slovenski standard je istoveten z: **EN 14434:2023**

ICS:

03.180	Vzgoja in izobraževanje	Education
13.180	Ergonomija	Ergonomics
97.140	Pohištvo	Furniture

SIST EN 14434:2024 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 14434

November 2023

ICS 03.180; 13.180; 97.140

Supersedes EN 14434:2010

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

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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.

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, Türkiye and United Kingdom.

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

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

Ref. No. EN 14434:2023 E

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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/

3.1
board attachment
element by which the board is attached to the rail

Note 1 to entry: See Figure 1.

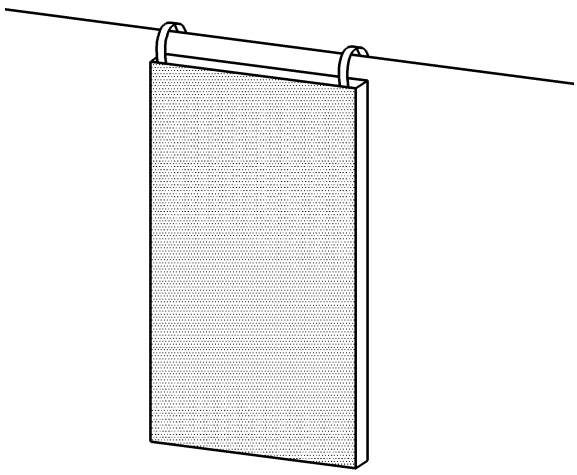

Figure 1 — Board attachment

3.2
chalkboard
writing board with a writing surface to be used for chalk

3.3
fixing element
joint by which the rail is mounted to the wall

3.4
flipchart
one-sided board placed or fixed on an easel or a rail with the facility to attach a paper pad

Note 1 to entry: See Figure 2.

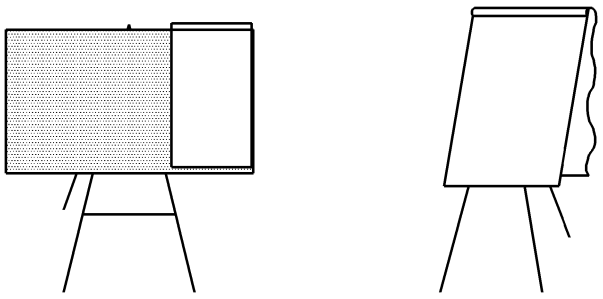

Figure 2 — Flipcharts

3.5
horizontally sliding board
board with or without wing with only horizontal board movements in the same plane, manually or power operated

3.6
mobile board
board or assembly of boards incorporating wheels or castors, which may be moved on the floor from one place to another

Note 1 to entry: See Figure 3.

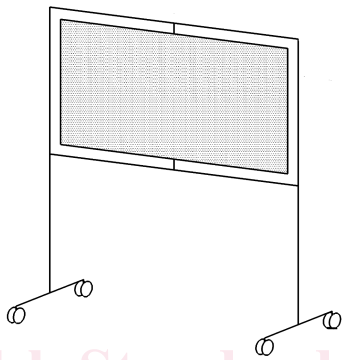

Figure 3 — Mobile board

3.7
pivoting board
two-sided board articulated on its horizontal or vertical axis and standing on braced feet, with or without castors

Note 1 to entry: See Figure 4.

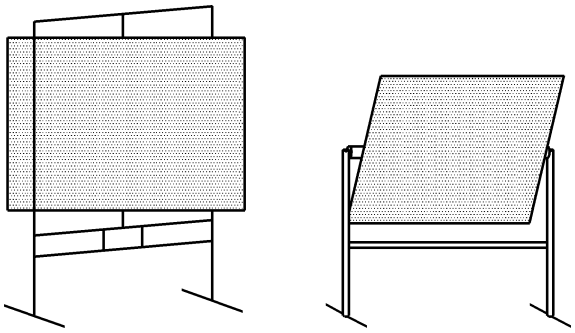

Figure 4 — Pivoting boards

3.8
rail-based system
rail-based board
board hanging and/or sliding on horizontally wall-mounted rails

Note 1 to entry: See Figure 5.

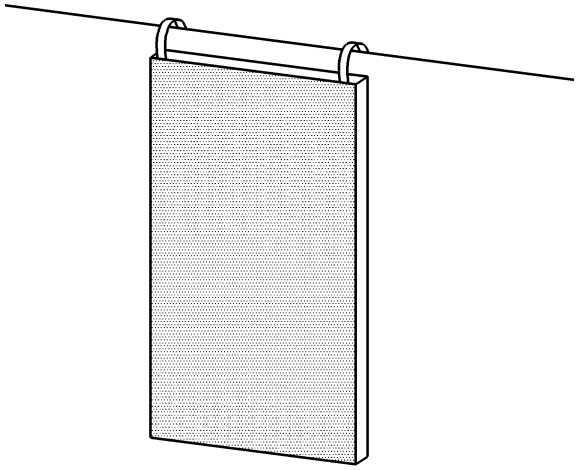

Figure 5 — Rail-based system/board

3.9
roller board
revolving surface board
assembly with top and bottom horizontal rollers allowing a continuous loop of flexible writing surface to be revolved between rollers

Note 1 to entry: See Figure 6.

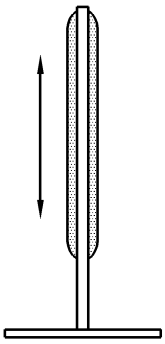

Figure 6 — Roller board / revolving surface board

3.10
sash board
assembly of one- or two-sided boards sliding vertically, independent of each other and individually counter balanced

Note 1 to entry: See Figure 7.

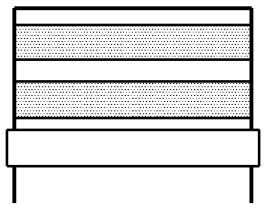

Figure 7 — Sash board

3.11
sliding board
board with horizontal and/or vertical movements in the same plane, manually or power operated

Note 1 to entry: See Figure 8.

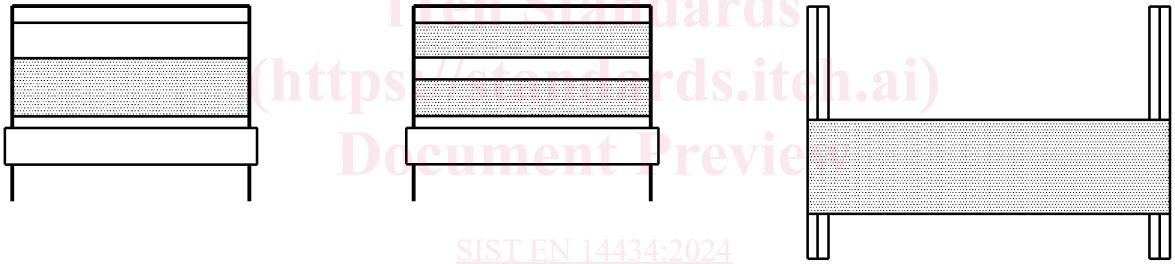

Figure 8 — Various types of sliding board

3.12
tilting board
manually or power operated inclinable one-sided board articulated on its lower horizontal edge, e.g. screen for overhead projector

Note 1 to entry: See Figure 9.

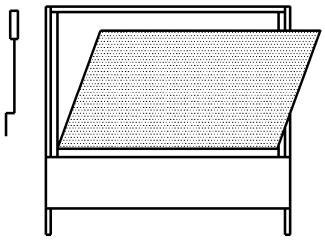

Figure 9 — Tilting board

3.13
to and fro board
assembly of one- or two-sided boards sliding vertically, counter-balancing each other in all positions

Note 1 to entry: See Figure 10.

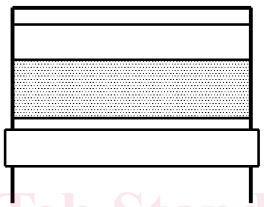

Figure 10 — To and fro board

3.14
transmission element
any means to transmit a movement such as to and fro, or sash