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**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

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**Ta slovenski standard je istoveten z: prEN 14434**

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13.180	Ergonomija	Ergonomics
97.140	Pohištvo	Furniture

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## 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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If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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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 (prEN 14434:2021) has been prepared by Technical Committee CEN/TC 207 “Furniture”, the secretariat of which is held by UNI.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 14434:2010.

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

- 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 (9.6);
- 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 (Annex H);
- h) insertion of vibration test (Annex I).

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**prEN 14434:2021 (E)****1 Scope**

This document specifies ergonomic, technical and safety requirements for wall mounted and free-standing writing boards 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) includes an assessment scale for the ability to write and erase.

Annex B (normative) Requirements for projecting white boards.

Annex C (informative) Requirements for projecting white boards.

Annex D (normative) Requirements for interactive systems.

Annex E (informative) Requirements for interactive systems.

Annex F (normative) Requirements for interactive screens.

Annex G (informative) Requirements for interactive screens.

Annex H (normative) Surface flatness test.

Annex I (informative) Vibration test.

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**2 Normative references**

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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*

EN ISO 2813:2014, *Paints and varnishes — Determination of gloss value at 20°, 60° and 85° (ISO 2813:2014)*

**3 Terms and definitions**

For the purposes of this document, the following terms and definitions apply.

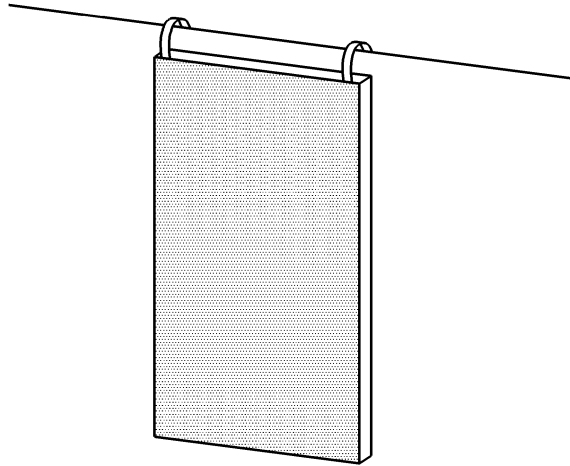
ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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



**3.1****board attachment**

element by which the board is attached to the rail



**Figure 1 — Board attachment**

**3.2****chalkboard**

writing board with a writing surface to be used for chalk

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**3.3****fixing element**

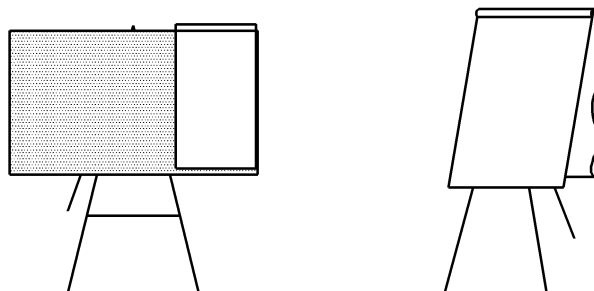
joint by which the rail is mounted to the wall

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**3.4****flip chart**

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



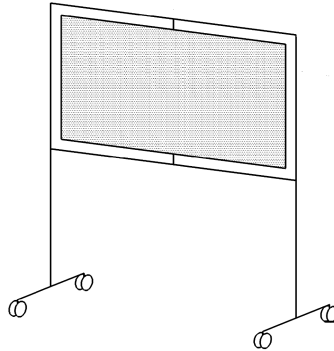
**Figure 2 — Flipchart**

**3.5****horizontally sliding board**

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

**prEN 14434:2021 (E)****3.6****mobile board**

board or assembly of boards, which may be moved on the floor from one place to another

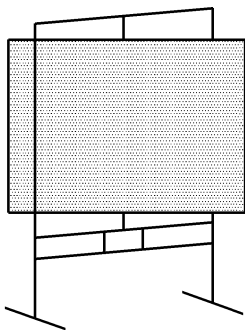


**Figure 3 — Mobile boards**

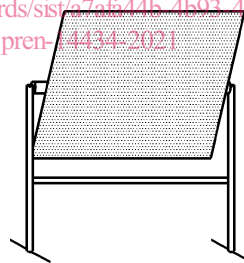
**3.7****pivoting board**

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

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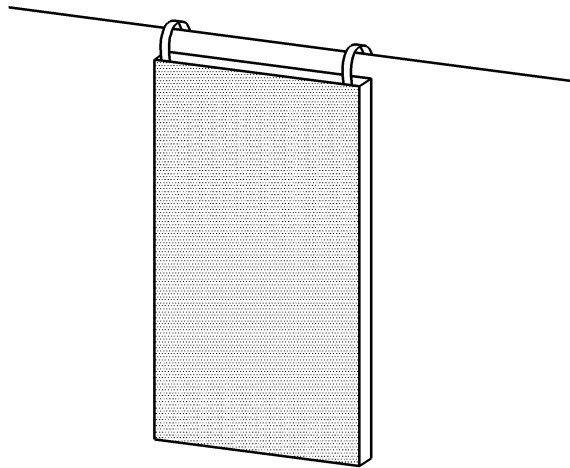
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**Figure 4 — Pivoting boards**

**3.8****rail based board/system**

board hanging and/or sliding on horizontally wall mounted rails



**Figure 5 — Rail based board/system**

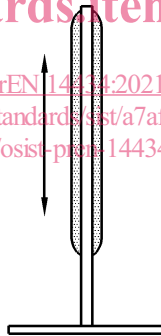
### 3.9

#### **roller / revolving surface board**

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

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**Figure 6 — Roller / revolving surface board**

### 3.10

#### **sash board**

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

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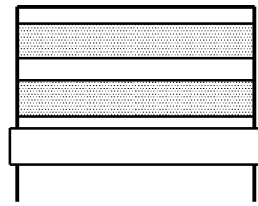
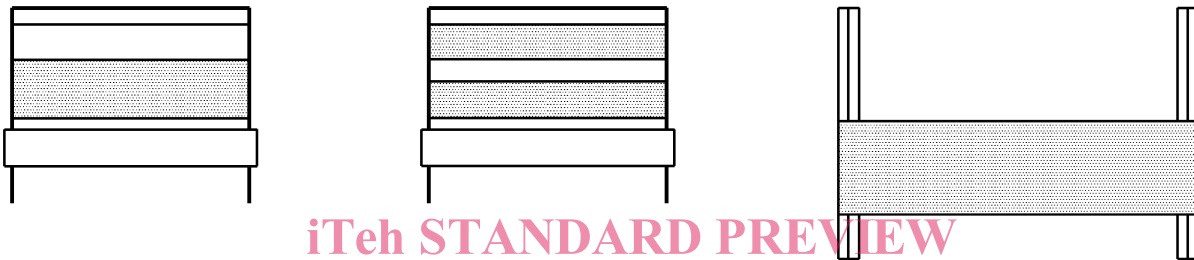


Figure 7 — Sash board

### 3.11 sliding board

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



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Figure 8 — Various types of sliding boards

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### 3.12 tilting board

manually or power-operated inclinable one-sided board articulated on its lower horizontal edge, e.g. screens for overhead projectors

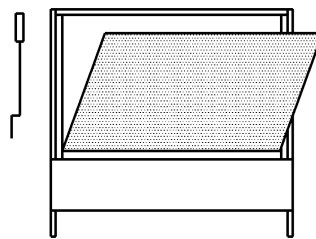
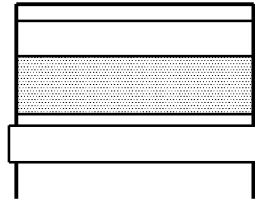


Figure 9 — Tilting board

### 3.13 to and fro board

assembly of one- or two-sided boards sliding vertically, counter-balancing each other in all positions



**Figure 10 — To and fro board**

### 3.14

#### **transmission element**

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

### 3.15

#### **tray**

ledge placed at the lower part of the board upon which writing implements may be placed

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#### **Key**

1 writing surface

**Figure 11 — Tray**

### 3.16

#### **vertically and horizontally sliding board**

board with or without wing with vertical and horizontal movements in the same plane, manually or power operated

### 3.17

#### **vertically sliding board**

board with or without wing, with only vertical movements in the same plane, manually or power operated