



SLOVENSKI STANDARD
SIST EN 13451-6:2002
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Swimming pool equipment - Part 6: Additional specific safety requirements and test methods for turning boards

Schwimmbadgeräte - Teil 6: Zusätzliche besondere sicherheitstechnische Anforderungen und Prüfverfahren für Anschlagplatten

Equipement de piscine - Partie 6: Exigences de sécurité et méthodes d'essai complémentaires spécifiques aux plaques de touche

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Ta slovenski standard je istoveten z: EN 13451-6:2001

ICS:

97.220.10 Športni objekti Sports facilities

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13451-6

February 2001

ICS 97.220.10

English version

Swimming pool equipment - Part 6: Additional specific safety requirements and test methods for turning boards

Équipement de piscine - Partie 6: Exigences de sécurité et méthodes d'essai complémentaires spécifiques aux plaques de touche

Schwimmbadgeräte - Teil 6: Zusätzliche besondere sicherheitstechnische Anforderungen und Prüfverfahren für Anschlagplatten

This European Standard was approved by CEN on 13 January 2001.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 136 "Sports, playground and other recreational equipment", the secretariat of which is held by DIN.

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 2001, and conflicting national standards shall be withdrawn at the latest by August 2001.

The European Standard EN 13451 "Swimming pool equipment" consists of

- Part 1: General safety requirements and test methods
- Part 2: Additional specific safety requirements and test methods for ladders, stepladders and handle bends
- Part 3: Additional specific safety requirements and test methods for equipment for water treatment purposes
- Part 4: Additional specific safety requirements and test methods for starting platforms
- Part 5: Additional specific safety requirements and test methods for lane lines
- Part 6: Additional specific safety requirements and test methods for turning boards
- Part 7: Additional specific safety requirements and test methods for water polo goals
- Part 8: Additional specific safety requirements and test methods for leisure water features
- Part 9: Safety signs
- Part 10: Additional specific safety requirements and test methods for diving platforms, diving springboards and associated equipment
- Part 11: Additional specific safety requirements and test methods for moveable pool floors and moveable bulkheads

Annex A is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This part of EN 13451 specifies safety requirements for turning boards in addition to the general safety requirements of EN 13451-1:2001.

The requirements of this specific standard take priority over those in EN 13451-1:2001.

This part of EN 13451:2001 is applicable to manufactured turning boards for use in competition and training.

2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies (including amendments).

EN 13451-1:2001

Swimming pool equipment – Part 1: General safety requirements and test methods

3 Terms and definitions

For the purposes of this standard the terms and definitions of EN 13451-1:2001 and the following apply:

3.1 turning board: Device, fixed or removable, fitted to the pool surround to extend the height of the end wall, in the same plane. For swimmers, it provides a clear delineation of the end of the wall and/or surface to touch. They can be used for mounting timing panels. (standards.iteh.ai)

4 Safety requirements

4.1 Dimensions

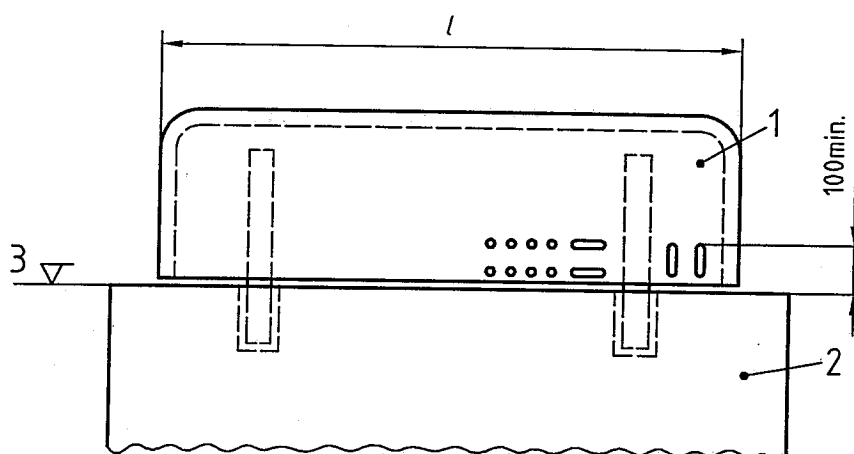
The dimensions indicated in the figures 1 and 2 shall be complied with. The design of the equipment doesn't need to comply with the examples given.

The turning board shall extend over the whole width of the lane, in one or more sections.

Turning boards shall be fitted in the same plane as the pool wall (see figure 2).

The minimum height of the turning boards shall be 300 mm measured from water level.

Dimensions in millimeters

**Key**

- edges designed to be suitable for grasping
- 1 Turning board with examples of openings for permeability
- 2 Pool wall
- 3 Water level
- l Lane width

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Figure 1: Front view of a turning board – Example of installation over a Zurich overflow channel

NOTE: Dimensional requirements for competitive use, stipulated by the governing body FINA (Fédération Internationale de Natation Amateur), are given in annex A for information.

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4.2 Structural integrity

Turning boards shall be designed to withstand a horizontal load, equivalent to 100 % of the vertical load stated in annex A of EN 13451-1 : 2001, applied at 90° to the panels, in either direction and parallel to the water surface.

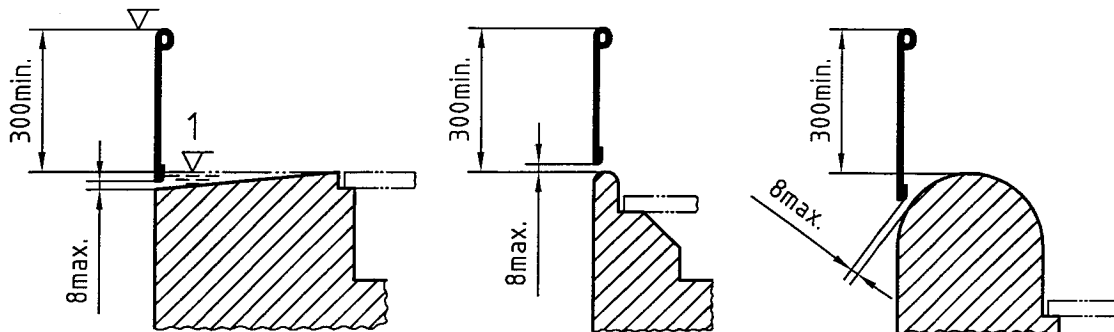
4.3 Permeability for water circulation

Turning boards shall be designed to allow the passage of water for water treatment purposes, for a height ≥ 100 mm in their lower part (see figure 2).

4.4 Top and side edges

The top and the side edges of the turning boards shall be designed to be suitable for grasping with a thickness between 25 mm and 50 mm (see figure 1).

Dimensions in millimetres

**Key**

1 Water level

a) Finnish overflow

b) Zurich overflow channel

c) St. Moritz overflow

Figure 2: Examples of installation of turning boards onto different overflow types**4.5 Openings for lane lines**

Any opening provided for the passage of lane lines, exceeding 8 mm in one dimension, shall be fitted with a closing device, to prevent the risk of entrapment.

5 Test methods

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The requirements of clause 4 shall be verified by the most appropriate method:

measurement, visual examination or practical tests.

Annex A (informative)

Requirements of FINA

Gutters may be placed on all four walls of the pool. If end wall gutters are installed, they must allow for attachment of touch panels to the required 0,3 m above the water surface. They must be covered with a suitable grill or screen.

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