



SLOVENSKI STANDARD

SIST EN 13451-5:2002

01-september-2002

Oprema za plavalne bazene - 5. del: Dodatne posebne varnostne zahteve in preskusne metode za plavalne proge

Swimming pool equipment - Part 5: Additional specific safety requirements and test methods for lane lines

Schwimmbadgeräte - Teil 5: Zusätzliche besondere sicherheitstechnische Anforderungen und Prüfverfahren für Schwimmbahnleinen

Equipement de piscine - Partie 5: Exigences de sécurité et méthodes d'essai complémentaires spécifiques aux lignes de nage

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Ta slovenski standard je istoveten z: **EN 13451-5:2001**

ICS:

97.220.10 Športni objekti Sports facilities

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13451-5

February 2001

ICS 97.220.10

English version

Swimming pool equipment - Part 5: Additional specific safety requirements and test methods for lane lines

Équipement de piscine - Partie 5: Exigences de sécurité et méthodes d'essai complémentaires spécifiques aux lignes de nage

Schwimmbadgeräte - Teil 5: Zusätzliche besondere sicherheitstechnische Anforderungen und Prüfverfahren für Schwimmbahnleinen

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 lane lines 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 is applicable to manufactured lane lines 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 lane line: A linear floating device to divide the water surface into areas to mark swimming lanes.

4 Safety requirements

4.1 Design

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Lane lines shall extend over the full length of the swimming lane.

Where floats are fitted, they shall extend over the full length as an unbroken series without gaps.

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

4.2 Structural integrity

The lane line, its fixings and the tensioning device shall withstand a tensile force of 15 kN.

4.3 Tensioning device

A device shall be fitted to tension the lane line after mounting in such a way that it maintains a straight position.

4.4 Safety link

A safety link designed to break at a force of $(7,5 \pm 1,2)$ kN shall be fitted on each lane line.

4.5 Entrapment

The dimension of any variable opening shall comply with the requirements in accordance with 4.7 of EN 13451-1 : 2001.

4.6 Crushing

If floats are used, a device (e.g. a spring) shall be fitted to maintain their continuity without gaps.

NOTE: Parallel front surfaces of two adjacent floats should be avoided.

4.7 Buoyancy

The lane lines shall have a positive buoyancy in such a way that at least one half to maximum two thirds of the height of the device float above the water surface.

4.8 Safe operation

The lane lines, the tensioning device and the fixings shall be designed in such a way that a self-loosening action is not possible.

5 Test methods

The requirements of clause 4 shall be verified by the most appropriate method:
measurement, visual examination or practical tests.

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Annex A (informative)**Requirements of FINA**

Lane ropes shall extend the full length of the course, secured at each end wall to anchor brackets recessed into the end walls. Each lane rope will consist of floats placed end to end having a minimum diameter of 0,05 m to a maximum of 0,15 m. The colour of the floats extending for a distance of 5,0 m from each end of the pool shall be distinct from the rest of the floats. There shall not be more than one lane rope between each lane.

The lane ropes shall be firmly stretched.

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