

<b>STN</b>	<b>Vybavenie plaveckých bazénov</b> <b>Časť 1: Všeobecné bezpečnostné požiadavky a</b> <b>skúšobné metódy na vybavenie inštalované v</b> <b>bazénoch pre verejnosť</b>	<b>STN</b> <b>EN 13451-1</b>  94 0402
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Swimming pool equipment - Part 1: General safety requirements and test methods for equipment installed in pools for public use

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

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## Swimming pool equipment - Part 1: General safety requirements and test methods for equipment installed in pools for public use

Équipement de piscine - Partie 1 : Exigences générales de sécurité et méthodes d'essai pour les équipements installés dans des piscines à usage public

Schwimmbadgeräte - Teil 1: Allgemeine sicherheitstechnische Anforderungen und Prüfverfahren für in öffentlichen Schwimmbädern installierte Schwimmbadgeräte

This European Standard was approved by CEN on 1 September 2020.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN 13451-1:2020 (E)**

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## European foreword

This document (EN 13451-1:2020) has been prepared by Technical Committee CEN/TC 136 "Sports, playground and other recreational facilities and 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of an identical text or by endorsement, at the latest by May 2021, and conflicting national standards shall be withdrawn at the latest by May 2021.

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 13451-1:2011+A1:2016.

Compared to EN 13451-1:2011+A1:2016 the following changes have been made:

- a) definition "swimming pool equipment" revised;
- b) term "public use" added;
- c) requirements for structural integrity specified;
- d) material selection, in particular steel, aligned with EUROCODE and former Annex F deleted;
- e) requirements for safety barriers revised;
- f) requirements for protrusions and their test methods revised;
- g) requirements for fittings specified;
- h) Annex E for the determination of the slip resistance of inclined surfaces revised;
- i) editorial revision of the standard.

EN 13451, *Swimming pool equipment*, consists of the following parts:

- *Part 1: General safety requirements and test methods for equipment installed in pools for public use;*
- *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 inlets and outlets and water/air based water leisure features installed in pools for public use;*
- *Part 4: Additional specific safety requirements and test methods for starting platforms;*
- *Part 5: Additional specific safety requirements and test methods for lane lines and dividing line;*
- *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;*

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- *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.*

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, Turkey and the United Kingdom.



## **Introduction**

This document could also be applicable to other equipment installed in pools for public use not specified in Parts 2 to 11, provided the safety requirements are fulfilled.

There can be additional requirements for purposes such as competition swimming and advice should be sought from the governing body of the sport in question.

**EN 13451-1:2020 (E)****1 Scope**

This document specifies general safety requirements and test methods for equipment installed in swimming pools for public use as classified in EN 15288-1 and EN 15288-2.

Where specific standards exist, this general standard is not expected to be used alone.

Special care is expected to be taken in applying this general standard alone to equipment for which no product specific standard has yet been published.

**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 1990, *Eurocode - Basis of structural design*

EN 1991-1-2, *Eurocode 1: Actions on structures - Part 1-2: General actions - Actions on structures exposed to fire*

EN 1991-1-3, *Eurocode 1 - Actions on structures - Part 1-3: General actions - Snow loads*

EN 1991-1-4, *Eurocode 1: Actions on structures - Part 1-4: General actions - Wind actions*

EN 1991-1-5, *Eurocode 1: Actions on structures - Part 1-5: General actions - Thermal actions*

EN 1993-1-4, *Eurocode 3 - Design of steel structures - Part 1-4: General rules - Supplementary rules for stainless steels*

EN 15288-1:2018, *Swimming pools for public use - Part 1: Safety requirements for design*

EN ISO 12100, *Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100)*

ISO 5725-2, *Accuracy (trueness and precision) of measurement methods and results - Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method*

ISO 5725-5, *Accuracy (trueness and precision) of measurement methods and results - Part 5: Alternative methods for the determination of the precision of a standard measurement method*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**