

Nederlandse norm

NEN-EN 15288-2

(en)

Zwembaden - Deel 2: Veiligheidseisen voor
beheer

Swimming pools for public use - Part 2: Safety
requirements for operation

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Swimming pools for public use - Part 2: Safety requirements for operation

Piscines - Partie 2: Exigences de sécurité pour le fonctionnement

Schwimmbäder - Teil 2: Sicherheitstechnische Anforderungen an den Betrieb

This European Standard was approved by CEN on 10 September 2018.

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European foreword

This document (EN 15288-2:2018) 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of an identical text or by endorsement, at the latest by June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.

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 will supersede EN 15288-2:2008.

In relation to EN 15288-2:2008 the following main amendments have been made:

- a) introduction has been revised;
- b) scope has been revised by excluding EN 16582;
- c) normative references have been updated;
- d) definition “Indoor swimming pools” has been revised;
- e) definition “therapeutic pool” has been revised;
- f) definition “As Low As Reasonably Practicable” has been added;
- g) definition “harm” has been added;
- h) definition “hazard” has been added;
- i) definition “risk” has been added;
- j) definition “risk estimation” has been added;
- k) definition “risk analysis” has been added;
- l) definition “risk evaluation” has been added;
- m) definition “risk assessment” has been added;
- n) classification Type 3 pools has been revised;
- o) organizational and operational requirements have been fully revised;
- p) new table “Special risk factors and possible solutions to reduce the risk with reference to As Low As Reasonably Practicable” has been added;
- q) emergency plan has been added;
- r) new Clause “Verification of safety measures and / or protective measures” has been added;

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- s) Annex A “Dye test” has been moved to EN 15288-1;
- t) new Annex A “List of possible hazards” has been added;
- u) new Annex B “Risk assessment” has been added;
- v) new Annex C “Model of risk assessment” has been added;
- w) wording aligned with EN 15288-1;
- x) Bibliography has been updated.

This standard series EN 15288 “Swimming pools for public use” consists of the following parts:

- *Part 1: Safety requirements for design*
- *Part 2: Safety requirements for operation*

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Preview
NEN-EN 15288-2:2018

Introduction

This standard has been prepared principally to provide a reliable basis regarding operational characteristics of a public swimming pool.

The standard provides a framework for enhancing consumer protection and confidence by identifying hazards and putting controls in place to manage them, demonstrating compliance to customers and suppliers. The standard can reduce swimming pool accidents and illnesses to cut related costs and reduce the risk of prosecution and litigation. The standard can act to achieve cost savings, efficiencies and compatibility of pools throughout Europe. The use of this standard can engage and motivate staff with better, safer working conditions. Finally, this standard can be used to support public policy objectives and, where appropriate, offer an effective alternative to regulation.

This standard provides a means of review and assessment of the hazards associated with public swimming pools; their monitoring and assessment; and activities available for their control through education of users, and good operation and management. The standard includes both specific guideline values and good practices. It addresses a wide range of types of hazard, including hazards leading to drowning and injury, water quality, contamination of associated facilities and air quality. The intention of this standard is to provide a structured and methodical approach to meeting the needs of swimming pool safety.

It lists the main hazards, gives ways in which these may be addressed, and states what actions a pool operator should take to attain the standard.

It is not intended that this standard should be used as a method of carrying out a risk assessment. Adopting and following this standard will undoubtedly assist in the carrying out of a risk assessment. And for completeness, the principles of a risk assessment are described in Annex B and a model risk assessment for a swimming pool is given in Annex C. Pools come in a wide range of types, from water parks with thousands of visitors per day, through to communal pools, hotel pools, campsite pools and pools at guest houses, where bather loads may be much lower. Such a wide range implies a gradation of the safety requirements, which take into account the specific level of hazard. It should also be considered that in type 1 swimming pools the user would expect poolside supervision to be provided, while in other types, the user would not expect it.

This standard is concerned with swimming pool safety and recognizes the ISO guidance on safety thresholds that describe safety as freedom from unacceptable risk (e.g. CEN/ISO TR 20183). Safety is achieved by reducing risk to a tolerable level. There is no complete absence of risk. In turn, there is no product or system that is without some risk, which should be reduced to a tolerable risk.

Pool operators should also consider EN 15288-1, as well as other European standards, national standards and regulations when using this document.

This European Standard includes requirements, recommendations and notes for all existing pools and new pools. While compliance with requirements is mandatory to fulfil this standard, recommendations indicate best practices and notes give additional information and / or explanations.

EN 15288-2:2018 (E)**1 Scope**

This document specifies safety requirements for the operation of classified pools according to Clause 4. It is intended for those concerned with the operation and management of classified swimming pools. It provides guidance about the risks for staff and users associated with public swimming pools, by identifying the precautions needed to achieve safety.

This document has limited application to classified pools which consist of segregated areas of rivers, lakes or the sea. It is advised to follow the requirements for safe working methods and supervision insofar as they are relevant.

National and / or local legislation may apply.

This document is not applicable for domestic swimming pools according to EN 16582 (all parts). Further definitions of domestic swimming pools and / or use are given in EN 16582.

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 15288-1, *Swimming pools — Part 1: Safety requirements for design*

ISO 7001, *Graphical symbols — Public information symbols*

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 <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/bbp>

3.1**pool / swimming pool**

facility, with one or more water areas, intended for swimming, leisure or other water-based physical activities

3.2**indoor swimming pool**

one or more constructed water areas for bathing enclosed in a building, covered by a roof (fixed or moveable)

Note 1 to entry: A pool under a shelter is not considered an indoor swimming pool.

3.3**outdoor swimming pool**

one or more constructed open-air water areas for bathing

3.4**public use**

use of an installation open to everyone or to a defined group of users, not designated solely for the owner's / proprietor's / operator's family and guests, independently from paying an entrance fee

3.5 **therapeutic pool**

one or more constructed water areas specially designed to provide medical and physical care under control of a competent person

Note 1 to entry: Pools designed for fitness and related activities are not considered therapeutic pools.

3.6 **pool basin**

water tank where water-related activities can take place

3.7 **pool surround**

walkable area around a pool basin, associated of the pool basin itself

EXAMPLE Circulation areas, areas of entry and exit, etc.

Note 1 to entry: The walkable pool surround can include overflow grids.

3.8 **first aid**

medical, organizational and supportive measures for sick or injured persons with simple means including the emergency call

3.9 **pool operator**

designated person / organisation responsible for the operation of the pool in terms of health and safety

3.10 **staff area**

area only the staff have access to

3.11 **pool technical staff**

trained and competent people responsible for operating the technical equipment

3.12 **supervision**

assistance to the users and / or surveillance from trained and competent personnel to ensure safe pool use and operation

3.13 **pool supervisory staff**

trained and competent persons (e.g. lifeguards, pool attendants) responsible for the supervision of users in the controlled area

3.14 **poolside supervision**

action of supervising users in water and on the pool surround

EN 15288-2:2018 (E)**3.15****As Low As Reasonably Practicable****ALARP**

judgement of the balance of risk and benefit taking into account the sacrifice of time, effort and money that could be spent reducing a risk to zero

3.16**harm**

physical injury or damage to health

3.17**hazard**

potential source of harm

3.18**risk**

combination of the probability of occurrence of harm and the severity of that harm

3.19**risk estimation**

defining likely severity of harm and probability of its occurrence

3.20**risk analysis**

combination of the specification of the limits of the machine, hazard identification and risk estimation

3.21**risk evaluation**

judgement, on the basis of risk analysis, of whether the risk reduction objectives have been achieved

3.22**risk assessment**

overall process comprising a risk analysis and a risk evaluation

3.23**pool safety operating procedure****PSOP**

written instructions for safe operation

4 Classification**4.1 Swimming pool type 1**

Pool where the water-related activities are the main business (e.g. communal pools, leisure pools, water parks) and whose use is "public" according to 3.4.

4.2 Swimming pool type 2

Pool which is an additional service to the main business (e.g. hotel pools, campsite pools, club pools, therapeutic pools, school pools) and whose use is "public" according to 3.4.

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