

SVENSK STANDARD

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Utrustning för simbassänger – Del 1: Allmänna säkerhetskrav och provningsmetoder

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

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Denna standard ersätter SS-EN 13451-1:2011, utgåva 2.

The European Standard EN 13451-1:2011+A1:2016 has the status of a Swedish Standard. This document contains the official English version of EN 13451-1:2011+A1:2016.

This standard supersedes the Swedish Standard SS-EN 13451-1:2011, edition 2.

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EUROPEAN STANDARD

EN 13451-1:2011+A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2016

ICS 97.220.10

Supersedes EN 13451-1:2011

English Version

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

Équipement de piscine - Partie 1 : Exigences générales de sécurité et méthodes d'essai

Schwimmbadgeräte - Teil 1: Allgemeine sicherheitstechnische Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 29 July 2011 and includes Amendment 1 approved by CEN on 13 June 2016.

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 CEN-CENELEC Management Centre or to any CEN member.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents	Page
European foreword.....	5
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 Safety requirements	10
4.1 Structural integrity	10
4.1.1 General	10
4.1.2 Materials	11
4.2 Minimum space	11
4.3 Handrails, barriers, safety barriers	11
4.3.1 Handrails	11
4.3.2 Barriers	11
4.3.3 Safety barriers	11
4.3.4 Grip	12
4.3.5 Grasp	12
4.3.6 Finger hold	12
4.4 Surfaces	13
4.4.1 Surface finishing	13
4.4.2 Surface materials	13
4.5 Protrusions	13
4.6 Edges and corners	14
4.7 Entrapment, crushing and shearing points	15
4.7.1 General	15
4.7.2 Permissible openings	15
4.7.3 Protections and grids	15
4.7.4 Moving parts	15
4.7.5 Slits	16
4.7.6 Entrapment of hair	16
4.8 Slip resistance	16
4.9 Fittings	16
4.10 Removable protection devices	17
4.11 Alteration of existing equipment	17
5 Test methods	17
5.1 General	17
5.2 Test report	17
6 Instruction and information	18
6.1 Installation	18
6.2 Technical operation	18
6.3 Inspection and maintenance	18
7 Marking	19
Annex A (normative) Loads	20
A.1 Permanent loads	20
A.1.1 General	20

A.1.2	Self weight	20
A.1.3	Prestressing loads	20
A.2	Variable loads	20
A.2.1	General	20
A.2.2	User loads	20
A.2.3	Snow loads	23
A.2.4	Wind loads	23
A.2.5	Temperature loads	23
A.2.6	Specific loads	23
A.3	Number of users on the equipment	23
A.3.1	General	23
A.3.2	Number of users on a point	23
A.3.3	Number of users on line type elements	24
A.3.4	Number of users on an area	24
Annex B	(normative) Method of calculation of structural integrity	25
B.1	General principles	25
B.1.1	Limit state	25
B.1.2	Ultimate limit state	25
B.1.3	Serviceability limit state	26
B.2	Load combinations for static analysis	26
Annex C	(normative) Physical testing of structural integrity	27
C.1	Pass/fail criteria	27
C.1.1	Test method	27
C.1.2	Compliance	27
C.1.3	Failure	27
C.2	Test load for equipment	27
C.2.1	Load combinations for testing	27
C.2.2	Safety factor for test on identical series	27
C.2.3	Safety factor for test on a unique product	28
C.3	Load application	28
C.3.1	General	28
C.3.2	Point loads	28
C.3.3	Line loads	28
C.3.4	Area loads	28
Annex D	(normative) Methods of test for entrapment	29
D.1	Head and neck entrapment	29
D.1.1	Apparatus	29
D.1.2	Test method	30
D.2	Finger and toe entrapment	30
D.2.1	Apparatus	30
D.2.2	Test method	30
D.3	Foot and hand entrapment	30
D.3.1	Apparatus	30
D.3.2	Test method	31
Annex E	(normative) Testing of slip resistance	32
E.1	Principle	32
E.2	Testing person	32
E.3	Test rig	32
E.4	Test liquid	32
E.5	Test specimen	32
E.6	Test method	33

SS-EN 13451-1:2011+A1:2017 (E)

E.7	Evaluation	33
E.8	Classification.....	33
E.9	Test report.....	33
Annex F (normative) Use of stainless steel with load bearing functions in the swimming pool atmosphere		
		35
F.1	General.....	35
F.2	Indoor swimming pools with disinfection with chlorine	35
F.2.1	General.....	35
F.2.2	Components without the possibility of regular cleaning.....	35
F.2.3	Components with the possibility of regular cleaning	36
F.3	Outdoor swimming pools with disinfection with chlorine	36
F.4	Coatings and paintings.....	36
	Bibliography.....	37

European foreword

This document (EN 13451-1:2011+A1:2016) 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 April 2017, and conflicting national standards shall be withdrawn at the latest by April 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document includes Amendment 1 approved by CEN on 13 June 2016.

This document supersedes A1 EN 13451-1:2011 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

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

- *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 inlets and outlets and water/air based water leisure features;*
- *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 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.*

This standard may also be applicable to other equipment not specified, 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.

SS-EN 13451-1:2011+A1:2017 (E)

A1 In relation to EN 13451-1:2001 the following main amendments have been made:

- a) scope modified in accordance with EN 15288-1 and EN 15288-2;
- b) normative references have been updated: CEN/TS 16165 was added and EN 12503-1, -5 and -6 were deleted;
- c) the test failure requirements for the structural integrity was modified (see 4.1.1);
- d) definition pool/swimming pool deleted;
- e) requirements for materials (see 4.1.2) added;
- f) requirements for barriers (see 4.3) added;
- g) requirements for suctions deleted and will be moved to EN 13451-3;
- h) requirements for entrapment, crushing and shearing points (see 4.7) added;
- i) requirements for the test report (see 5.2) modified;
- j) values of total vertical user load (see Table A.1) modified;
- k) only two test probes for the test methods of head and neck entrapment (see Annex D);
- l) Annex F was deleted and the reference to CEN/TS 16165 was added instead;
- m) Steel 1.4571 was corrected. **A1**

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies general safety requirements and test methods for equipment used in classified swimming pools as specified in EN 15288-1 and EN 15288-2.

Where specific standards exist, this general standard should not be used alone.

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

2 Normative references

The following referenced documents are indispensable for the application 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 10088-1, *Stainless steels — Part 1: List of stainless steels*

EN 10088-2, *Stainless steels — Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes*

ⓘ deleted text ⓘ

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

ⓘ

CEN/TS 16165, *Determination of slip resistance of pedestrian surfaces — Methods of evaluation* ⓘ

ⓘ

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 15288-1 and the following apply.

3.1

swimming pool equipment

components installed in and around a basin, designated:

- to operate the basin and its functionally adjoining areas;