

# SVENSK STANDARD

## SS-EN 17072:2019

Fastställt/Approved: 2019-01-04  
Utgåva/Edition: 1  
Språk/Language: engelska/English  
ICS: 97.190

---

### **Barnartiklar – Badbaljor, stativ och icke-fristående badhjälpmedel – Säkerhetskrav och provningsmetoder**

### **Child care articles – Bath tubs, stands and non-standalone bathing aids – Safety requirements and test methods**

This preview is downloaded from [www.sis.se](http://www.sis.se). Buy the entire standard via <https://www.sis.se/std-80009203>

# Standarder får världen att fungera

*SIS (Swedish Standards Institute) är en fristående ideell förening med medlemmar från både privat och offentlig sektor. Vi är en del av det europeiska och globala nätverk som utarbetar internationella standarder. Standarder är dokumenterad kunskap utvecklad av framstående aktörer inom industri, näringsliv och samhälle och befrämjar handel över gränser, bidrar till att processer och produkter blir säkrare samt effektiviserar din verksamhet.*

## Delta och påverka

Som medlem i SIS har du möjlighet att påverka framtida standarder inom ditt område på nationell, europeisk och global nivå. Du får samtidigt tillgång till tidig information om utvecklingen inom din bransch.

## Ta del av det färdiga arbetet

Vi erbjuder våra kunder allt som rör standarder och deras tillämpning. Hos oss kan du köpa alla publikationer du behöver – allt från enskilda standarder, tekniska rapporter och standardpaket till handböcker och onlinetjänster. Genom vår webbtjänst e-nav får du tillgång till ett lättnavigerat bibliotek där alla standarder som är aktuella för ditt företag finns tillgängliga. Standarder och handböcker är källor till kunskap. Vi säljer dem.

## Utveckla din kompetens och lyckas bättre i ditt arbete

Hos SIS kan du gå öppna eller företagsinterna utbildningar kring innehåll och tillämpning av standarder. Genom vår närhet till den internationella utvecklingen och ISO får du rätt kunskap i rätt tid, direkt från källan. Med vår kunskap om standarders möjligheter hjälper vi våra kunder att skapa verklig nytta och lönsamhet i sina verksamheter.

**Vill du veta mer om SIS eller hur standarder kan effektivisera din verksamhet är du välkommen in på [www.sis.se](http://www.sis.se) eller ta kontakt med oss på tel 08-555 523 00.**



# Standards make the world go round

*SIS (Swedish Standards Institute) is an independent non-profit organisation with members from both the private and public sectors. We are part of the European and global network that draws up international standards. Standards consist of documented knowledge developed by prominent actors within the industry, business world and society. They promote cross-border trade, they help to make processes and products safer and they streamline your organisation.*

## Take part and have influence

As a member of SIS you will have the possibility to participate in standardization activities on national, European and global level. The membership in SIS will give you the opportunity to influence future standards and gain access to early stage information about developments within your field.

## Get to know the finished work

We offer our customers everything in connection with standards and their application. You can purchase all the publications you need from us - everything from individual standards, technical reports and standard packages through to manuals and online services. Our web service e-nav gives you access to an easy-to-navigate library where all standards that are relevant to your company are available. Standards and manuals are sources of knowledge. We sell them.

## Increase understanding and improve perception

With SIS you can undergo either shared or in-house training in the content and application of standards. Thanks to our proximity to international development and ISO you receive the right knowledge at the right time, direct from the source. With our knowledge about the potential of standards, we assist our customers in creating tangible benefit and profitability in their organisations.

**If you want to know more about SIS, or how standards can streamline your organisation, please visit [www.sis.se](http://www.sis.se) or contact us on phone +46 (0)8-555 523 00**



Europastandarden EN 17072:2018 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 17072:2018.

The European Standard EN 17072:2018 has the status of a Swedish Standard. This document contains the official version of EN 17072:2018.

© Copyright/Upphovsrätten till denna produkt tillhör SIS, Swedish Standards Institute, Stockholm, Sverige. Användningen av denna produkt regleras av slutanvändarlicensen som återfinns i denna produkt, se standardens sista sidor.

© Copyright SIS, Swedish Standards Institute, Stockholm, Sweden. All rights reserved. The use of this product is governed by the end-user licence for this product. You will find the licence in the end of this document.

*Upplysningar om sakinnehållet i standarden lämnas av SIS, Swedish Standards Institute, telefon 08-555 520 00. Standarder kan beställas hos SIS som även lämnar allmänna upplysningar om svensk och utländsk standard.*

*Information about the content of the standard is available from the Swedish Standards Institute (SIS), telephone +46 8 555 520 00. Standards may be ordered from SIS, who can also provide general information about Swedish and foreign standards.*

Denna standard är framtagen av kommittén för Barnartiklar, SIS/TK 404.

Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på [www.sis.se](https://www.sis.se) - där hittar du mer information.



EUROPEAN STANDARD

EN 17072

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2018

---

ICS 97.190

English Version

## Child care articles - Bath tubs, stands and non-standalone bathing aids - Safety requirements and test methods

Articles de puériculture - Baignoires, supports et aides  
au bain non indépendantes - Exigences de sécurité et  
méthodes d'essai

Artikel für Säuglinge und Kleinkinder - Badewannen,  
Gestelle und nicht freistehende Badehilfen -  
Sicherheitsanforderungen und Prüfverfahren

This European Standard was approved by CEN on 19 October 2018.

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.

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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



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

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

<b>Contents</b>	<b>Page</b>
European foreword.....	4
<b>1</b> Scope.....	<b>5</b>
<b>2</b> Normative references.....	<b>5</b>
<b>3</b> Terms and definitions.....	<b>5</b>
<b>4</b> Test equipment.....	<b>7</b>
<b>4.1</b> Test probes for finger entrapment.....	<b>7</b>
<b>4.1.1</b> Test probes with hemispherical end.....	<b>7</b>
<b>4.1.2</b> Shape assessment probe.....	<b>8</b>
<b>4.2</b> Test probes for head entrapment.....	<b>8</b>
<b>4.2.1</b> Small head probe.....	<b>8</b>
<b>4.2.2</b> Large head probe.....	<b>9</b>
<b>4.2.3</b> Template for partially bound and V shaped openings.....	<b>9</b>
<b>4.3</b> Test mass A.....	<b>10</b>
<b>4.4</b> Small parts cylinder.....	<b>11</b>
<b>4.5</b> Feeler gauge.....	<b>12</b>
<b>4.6</b> Test glass surface.....	<b>12</b>
<b>4.7</b> Test surface for drop test and impact test.....	<b>12</b>
<b>4.8</b> Tube.....	<b>12</b>
<b>4.9</b> Steel ball.....	<b>13</b>
<b>4.10</b> Test beam.....	<b>13</b>
<b>4.11</b> Test base for bath mounted supports.....	<b>13</b>
<b>5</b> General requirements.....	<b>14</b>
<b>5.1</b> Product conditioning.....	<b>14</b>
<b>5.2</b> Test conditions.....	<b>15</b>
<b>5.3</b> Application of forces.....	<b>15</b>
<b>5.4</b> Tolerances.....	<b>15</b>
<b>5.5</b> Order of test.....	<b>15</b>
<b>6</b> Chemical hazards — Migration of certain elements (see A.2).....	<b>15</b>
<b>7</b> Mechanical hazards (see A.3).....	<b>16</b>
<b>7.1</b> General.....	<b>16</b>
<b>7.2</b> Entrapment hazards.....	<b>16</b>
<b>7.2.1</b> Entrapment of fingers.....	<b>16</b>
<b>7.2.2</b> Entrapment of head.....	<b>17</b>
<b>7.3</b> Hazards due to moving parts.....	<b>19</b>
<b>7.3.1</b> Requirements for compression points.....	<b>19</b>
<b>7.3.2</b> Requirements for shear points.....	<b>20</b>
<b>7.4</b> Entanglement hazards.....	<b>20</b>
<b>7.4.1</b> Requirements.....	<b>20</b>
<b>7.4.2</b> Test method.....	<b>21</b>
<b>7.5</b> Choking and ingestion hazards.....	<b>21</b>
<b>7.5.1</b> Requirements.....	<b>21</b>
<b>7.5.2</b> Test methods.....	<b>21</b>
<b>7.6</b> Suffocation hazards — Plastic packaging.....	<b>22</b>
<b>7.7</b> Hazardous edges, corners and protruding parts.....	<b>22</b>

7.8	Hazards from inadequate structural integrity.....	23
7.8.1	Thermal shock.....	23
7.8.2	Static strength of bath tubs.....	23
7.8.3	Static strength of non-standalone bathing aids.....	23
7.8.4	Static strength of stands.....	24
7.8.5	Strength and retention of suction cups.....	24
7.8.6	Impact test.....	24
7.9	Hazards due to folding or adjusting of the product.....	25
7.9.1	General.....	25
7.9.2	Attachment device(s) for non-standalone bathing aids.....	25
7.9.3	Foldable bath tubs.....	25
7.9.4	Stands.....	26
7.10	Hazards due to plastic decals.....	27
7.10.1	Requirement.....	27
7.10.2	Conditioning of plastic decals.....	27
7.11	Castors/wheels.....	27
7.11.1	Requirements.....	27
7.11.2	Requirements for parking device.....	27
7.11.3	Test methods for lockable wheels.....	27
7.12	Hazards due to inadequate stability.....	28
7.12.1	Requirements.....	28
7.12.2	Test methods.....	29
8	Product information.....	30
8.1	General.....	30
8.2	Marking of the product.....	31
8.2.1	Requirements.....	31
8.2.2	Durability of marking.....	32
8.2.3	Test method for durability of marking.....	32
8.2.4	Determination of maximum level of water for non-standalone bath cradles and integrated bath cradles.....	32
8.3	Purchase information.....	33
8.4	Instructions for use.....	33
Annex A	(informative) Rationales.....	36
A.1	General.....	36
A.2	Chemical hazards (see Clause 6).....	36
A.3	Mechanical hazards (see Clause 7).....	36
A.3.1	General.....	36
A.3.2	Entrapment hazards.....	36
A.3.3	Hazards due to moving parts.....	36
A.3.4	Entanglement hazards.....	37
A.3.5	Choking and ingestion hazards.....	37
A.3.6	Suffocation hazards.....	37
A.3.7	Hazardous edges, corners and protruding parts.....	37
A.3.8	Hazards from inadequate structural integrity.....	37
A.3.9	Hazards due to folding or adjusting of the product.....	37
A.3.10	Plastic decals.....	38
A.3.11	Hazards due to inadequate stability.....	38
A.4	Drowning hazard.....	38
A.5	Thermal hazards.....	38
Annex B	(normative) Warnings.....	39
Bibliography	.....	46

## **SS-EN 17072:2019 (E)**

### **European foreword**

This document (EN 17072:2018) has been prepared by Technical Committee CEN/TC 252 “Child care articles”, the secretariat of which is held by AFNOR.

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 has been prepared under Mandate M/464 given to CEN by the European Commission and the European Free Trade Association.

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.



## 1 Scope

This document specifies safety requirements and test methods for children's bath tubs and stands and for non-standalone bathing aids that are designed and intended to be used only in conjunction with a children's bath tub.

This document does not cover children's bath tubs and stands and non-standalone bathing aids designed for children with special needs.

NOTE 1 Standalone bathing aids are covered in EN 17022.

NOTE 2 Where the product has several functions or can be converted into another function it is due to comply with relevant standard(s).

## 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 71-3, *Safety of toys — Part 3: Migration of certain elements*

EN ISO 291, *Plastics — Standard atmospheres for conditioning and testing (ISO 291)*

ISO 7619-1, *Rubber, vulcanized or thermoplastic — Determination of indentation hardness — Part 1: Durometer method (Shore hardness)*

## 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/obp>

### 3.1

#### **children's bath tub**

product providing containment of water by itself, designed for bathing children, which can be used as stand-alone product or combined with stands

Note 1 to entry: A bath tub can also be foldable or can comprise integral parts that can be folded or adjusted (e.g. foldable legs).

Note 2 to entry: When the wording "bath tub" is used in the standard it refers to children's bath tubs unless otherwise stated.

### 3.2

#### **stand**

static structure, not integrated into the children's bath tub, designed to accommodate, support and elevate a children's bath tub

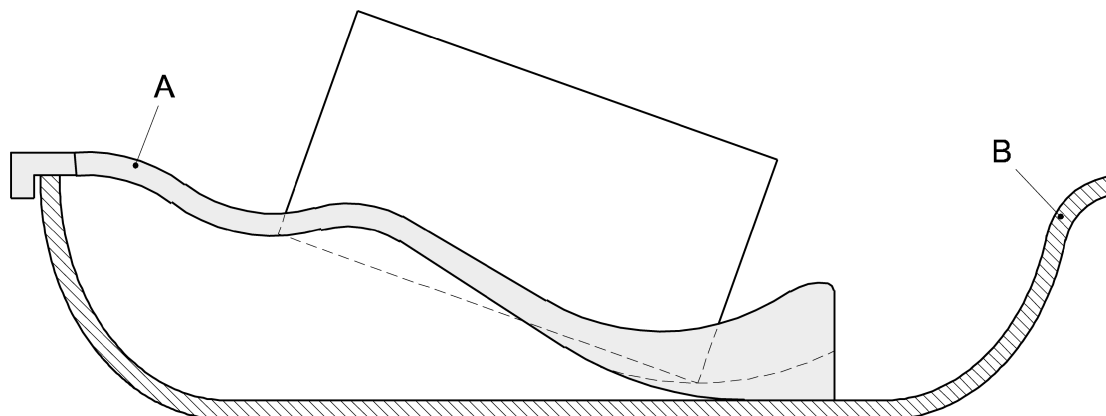
Note 1 to entry: A stand can either be standalone or be designed to be fitted over an adult bath tub.

## SS-EN 17072:2019 (E)

### 3.3 non-standalone bathing aid

product, that does not provide containment of water by itself and requires a child's bath tub to stand

Example: Figure 1 shows an example of a non-standalone bathing aid.



#### Key

- A non-standalone bathing aid
- B child's bath tub

**Figure 1 — Example of non-standalone bathing aids**

#### 3.3.1 non-standalone bath cradle

non standalone bathing aid designed to keep a child in a reclined position during bathing

Note 1 to entry: These products are intended for use from birth and until the child is able to sit upright unassisted.

#### 3.3.2 non-standalone bath seat

non-standalone bathing aid designed to keep a child in a seated position during bathing

Note 1 to entry: These products are intended for use with a child who is able to sit upright unassisted and until the child begins pulling up to a standing position.

### 3.4 integrated bath cradle

non-removable part of a children's bath tub designed to keep a child in a reclined position during bathing. See Figure 2.

Note 1 to entry: These products are intended for use from birth and until the child is able to sit upright unassisted.

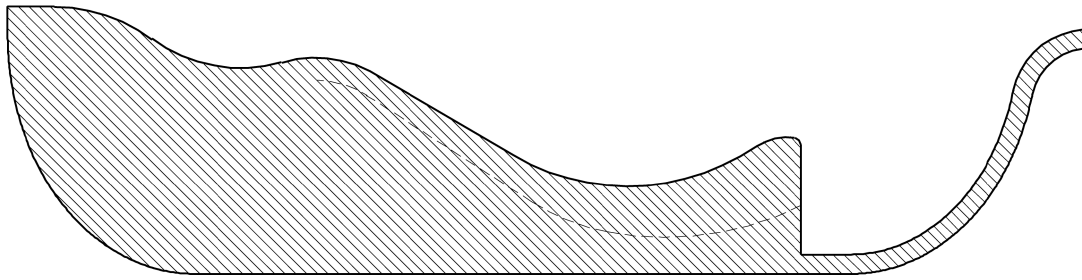


Figure 2 — Example of integrated bath cradle

## 4 Test equipment

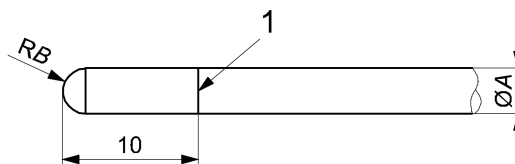
### 4.1 Test probes for finger entrapment

#### 4.1.1 Test probes with hemispherical end

Probes made from plastic or other hard, smooth material of diameters  $(7^0_{-0,1})$  mm and  $(12^{+0,1}_0)$  mm with a full hemispherical end that can be mounted on a force-measuring device, see Figure 3.

Mesh probe made from plastic or other hard, smooth material as shown in Figure 4.

Dimensions in millimetres



#### Key

Probe type	7 mm probe	12 mm probe
Diameter A	$7^0_{-0,1}$	$12^{+0,1}_0$
Radius RB	half of diameter A	half of diameter A
1	Line scribed around circumference showing depth of penetration	

Figure 3 — Test probes with hemispherical end