



SLOVENSKI STANDARD

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Varnost igráč - 14. del: Trampolini za domačo uporabo

Safety of toys - Part 14: Trampolines for domestic use

Sicherheit von Spielzeug - Teil 14: Trampoline für den häuslichen Gebrauch

Sécurité des jouets Partie 14 : Trampolines à usage familial

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Ta slovenski standard je istoveten z: ~~SIST EN 71-14:2018~~ EN 71-14:2018

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Toys

SIST EN 71-14:2019

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EUROPEAN STANDARD

EN 71-14

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Sécurité des jouets - Partie 14: Trampolines à usage
familialSicherheit von Spielzeug - Teil 14: Trampoline für den
häuslichen Gebrauch

This European Standard was approved by CEN on 5 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.

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

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

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European foreword

This document (EN 71-14:2018) has been prepared by Technical Committee CEN/TC 52 “Safety of toys”, the secretariat of which is held by DS.

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of an identical text or by endorsement, at the latest by June 2019, and conflicting national standards shall be withdrawn at the latest by June 2019.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 supersedes EN 71-14:2014+A1:2017.

This document has been prepared under mandate M/445 given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2009/48/EC.

For relationship with EU Directive 2009/48/EC, see informative Annex ZA, which is an integral part of this document.

This European Standard constitutes the 14th part of the European Standard on safety of toys and needs to be read in conjunction with Part 1.

This European Standard, *Safety of toys*, consists of the following parts:

- *Part 1: Mechanical and physical properties;*
- *Part 2: Flammability;*
- *Part 3: Migration of certain elements;*
- *Part 4: Experimental sets for chemistry and related activities;*
- *Part 5: Chemical toys (sets) other than experimental sets;*
- *Part 7: Finger paints — Requirements and test methods;*
- *Part 8: Activity toys for domestic use;*
- *Part 9: Organic chemical compounds — Requirements;*
- *Part 10: Organic chemical compounds — Sample preparation and extraction;*
- *Part 11: Organic chemical compounds — Methods of analysis;*
- *Part 12: N-Nitrosamines and N-nitrosatable substances;*
- *Part 13: Olfactory board games, cosmetic kits and gustative games;*
- *Part 14: Trampolines for domestic use [this document].*

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NOTE 1 In addition to the above parts of EN 71, the following guidance documents have been published: the CEN Technical Report, CEN/TR 15071, *Safety of toys — National translations of warnings and instructions for use in EN 71*, and the CEN Technical Report, CEN/TR 15371 (all parts), *Safety of toys — Interpretations*.

NOTE 2 Words in italics are defined in Clause 3 (Terms and definitions). Additional information on the background and rationale for various requirements is given in Annex A.

NOTE 3 Different legal requirements may exist in non-EU countries.

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.

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1 Scope

This document specifies requirements and test methods for trampolines for domestic use, their *access devices* and their *enclosures*, intended for outdoor and/or indoor use by one person at a time.

The scope of this document excludes:

- trampolines used as gymnastic equipment, covered by EN 13219:2008;
- floating inflatable trampolines, covered by the EN ISO 25649:2017 series;
- trampolines used in public playgrounds;
- inclined *mat* trampolines;
- inflatable trampolines;
- fitness trampolines, including trampolines for medical use;
- trampolines with additional features, e.g. tents, basketball hoop.

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 71-1:2014+A1:2018, *Safety of toys — Part 1: Mechanical and physical properties*

EN 71-8:2018, *Safety of toys — Part 8: Activity toys for domestic use*

EN 913:2008, *Gymnastic equipment — General safety requirements and test methods*

EN 1176-1:2017, *Playground equipment and surfacing — Part 1: General safety requirements and test methods*

EN 13219:2008, *Gymnastic equipment — Trampolines — Functional and safety requirements, test methods*

EN ISO 4892-3:2016, *Plastics — Methods of exposure to laboratory light sources — Part 3: Fluorescent UV lamps (ISO 4892-3:2016)*

EN ISO 9227:2017, *Corrosion tests in artificial atmospheres — Salt spray tests (ISO 9227:2017)*

EN ISO 13934-1:2013, *Textiles — Tensile properties of fabrics — Part 1: Determination of maximum force and elongation at maximum force using the strip method (ISO 13934-1:2013)*

EN ISO 25649:2017 (all parts), *Floating leisure articles for use on and in the water (ISO 25649:2017)*

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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>

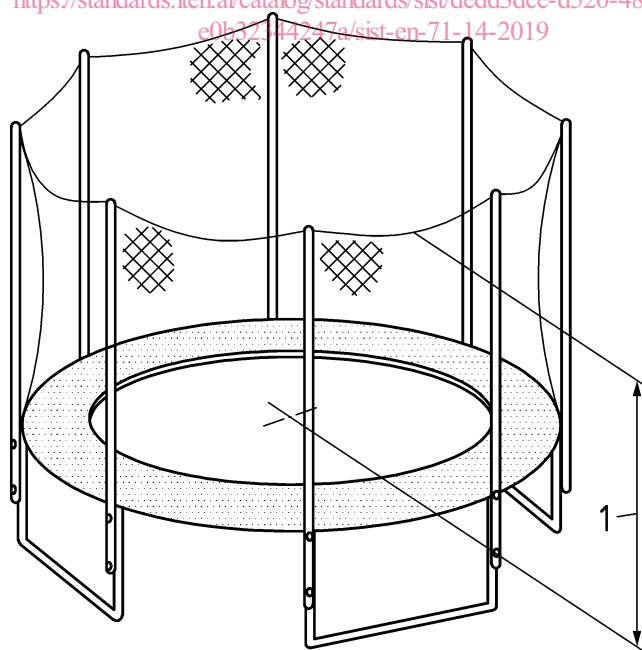
**3.1
access device**
equipment used for access to, or egress from, the *mat* of a trampoline including, but not limited to, ladders

**3.2
bouncing**
action considered as normal use of a trampoline consisting of continuous, vertical jumping in which each landing is in close proximity to the previous landing

**3.3
enclosure**
flexible barrier (constraint) surrounding the trampoline

**3.4
enclosure height**
distance from the surface of the *mat* to the lowest point of the brim of the *enclosure*

Note 1 to entry: The *enclosure height* is illustrated in Figure 1:4:2019
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Key

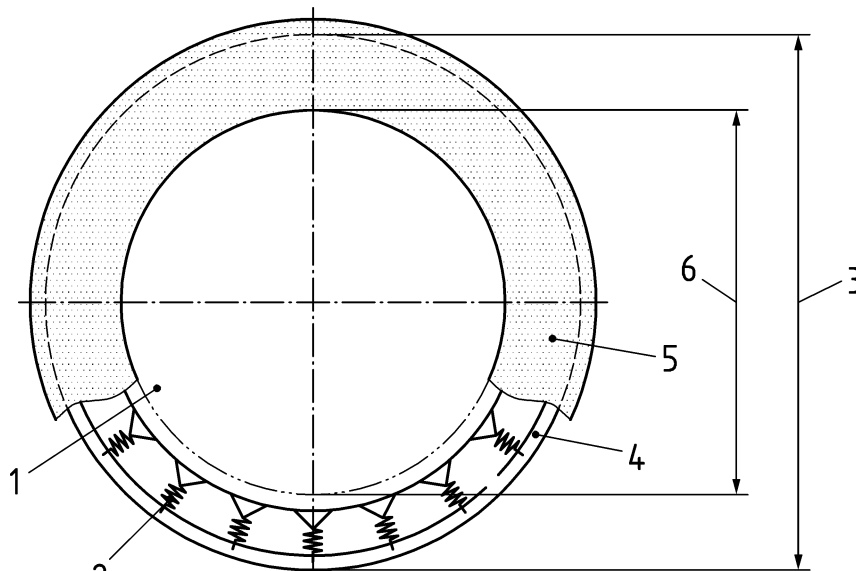
1 *enclosure height*

Figure 1 — Enclosure height

3.5 frame

construction of rigid supportive materials from which the *mat* is suspended

Note 1 to entry: See Figure 2 for an example of domestic trampoline including trampoline *frame* and *mat*.



Key

- 1 *mat*
- 2 *suspension system*
- 3 *frame size* (in case of a non-circular trampoline the *frame size* is the maximum distance between two opposite points of the *frame*)
- 4 *frame*
- 5 *padding*
- 6 *jumping area*

Figure 2 — Example of trampoline frame and mat

3.6 legs

part of the framework, constructed of rigid materials which support the *frame*

3.7 mat

predominantly flexible surface which the user contacts in the course of *bouncing* on the trampoline

Note 1 to entry: See Figure 2 for an example of domestic trampoline including trampoline *frame* and *mat*.

3.8 maximum user weight

mass, in kilograms, indicated by the manufacturer as the maximum weight of a user

3.9 padding

shock-attenuating protective system attached to the *frame* to cover the *frame* and the *suspension system*

Note 1 to entry: See Figure 2 for an example of domestic trampoline including trampoline *frame* and *mat*.

EN 71-14:2018 (E)**3.10****suspension system**

mechanism that supports the *mat*, consisting of flexible devices that connect the *mat* to the *frame*

Note 1 to entry: Steel extension springs are a typical example of a *suspension system*.

3.11***buried trampoline***

trampoline which according to the manufacturer's instructions requires a hole to be dug as part of the installation process

3.12***raised buried trampoline***

buried trampoline with the *frame* levelled above the ground

3.13**ground-levelled trampoline**

buried trampoline with the *frame* levelled with the ground

3.14***non-buried trampoline***

trampoline which according to the manufacturer's instructions does not require a hole to be dug as part of the installation process

3.15**skirt**

device intended to prevent the user to enter the area below the trampoline

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3.16**jumping area**

area of the *mat* accessible for *bouncing*

Note 1 to entry: See Figure 2 for an example of domestic trampoline including trampoline *frame* and *mat*.

3.17**collapse**

sudden or unexpected folding of a structure

[SOURCE: EN 71-1:2014+A1:2018, 3.12]

4 Trampoline categories

Trampolines shall be classified by the *frame* size, *maximum user weight* and *frame* height according to Table 1.

Table 1 — Trampoline frame size, frame height and maximum user weight

	Mini	Medium	Large
Frame size in mm	< 1 500	< 2 500	≥ 2 500
Maximum user weight in kg	≤ 25	≤ 50	Manufacturer defined
Frame height of non-buried trampolines in mm	< 350	< 500	≥ 500

The *frame size* for a circular trampoline is equal to the diameter (see Figure 2) while for non-circular trampolines it is equal to the maximum distance between two opposite points of the outside of the *frame* (e.g. the largest diagonal in the case of a rectangular trampoline).

If at least one of the measurements in Table 1 is exceeded, the trampoline shall be classified in the closest higher category.

5 General requirements

5.1 Exemptions from certain requirements in EN 71-1 (see A.2)

The requirements in EN 71-1 are applicable to trampolines for domestic use with exemptions for the requirements under the following headings in EN 71-1:

- edges (EN 71-1:2014+A1:2018, 4.7);
- points and metallic wires (EN 71-1:2014+A1:2018, 4.8);
- protruding parts (EN 71-1:2014+A1:2018, 4.9);
- toys which a child can enter (EN 71-1:2014+A1:2018, 4.14.1).

The above-mentioned requirements from EN 71-1 are not exempted for trampolines intended for children under 36 months.

NOTE This European standard specifies specific requirements for edges, sharp points and protruding parts for trampolines for domestic use (see 5.6.2, sharp edges and sharp points and 5.6.3) which is why the corresponding requirements of EN 71-1 do not apply to trampolines (for children of 36 months and over).

5.2 General requirements for the trampoline construction (see A.3)

5.2.1 Requirements for mini-trampolines (see Clause 4)

Mini-trampolines shall be provided with anti-slip feet. Such trampolines shall not slip when tested according to EN 13219:2008, 5.2.

Mini-trampolines may be equipped with handrails to assist the balance of the user. Mini-trampolines may be equipped with an *enclosure*. If mini-trampolines are equipped with handrails, they shall not be equipped with an *enclosure*.

NOTE See 5.2.3.2 for requirements on *enclosures*.