

STN	Bezpečnosť hračiek. Časť 14: Trampolíny na domáce používanie.	STN EN 71-14 94 3094
------------	--	--

Safety of toys - Part 14: Trampolines for domestic use

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/15

Obsahuje: EN 71-14:2014

120658

Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2015
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

ICS 97.200.50

English Version

Safety of toys - Part 14: Trampolines for domestic useSécurité 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 8 November 2014.

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, 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: Avenue Marnix 17, B-1000 Brussels**

Contents

Page

Foreword.....	4
1 Scope (see A.1)	6
2 Normative references	6
3 Terms and definitions	6
4 General requirements.....	9
4.1 Exemptions from certain requirements in EN 71-1 (see A.2)	9
4.2 Trampoline categories	9
4.3 General requirements for the trampoline construction (see A.3).....	9
4.3.1 Requirements for mini-trampolines (see 4.2)	9
4.3.2 Requirements for medium and large trampolines (see 4.2)	10
4.3.3 Requirements for all trampoline categories	10
4.4 Durability of materials (see A.4)	11
4.4.1 Metallic parts	11
4.4.2 Non metallic parts	11
4.5 Entrapment (see A.5)	11
4.5.1 Finger entrapment	11
4.5.2 Head and neck entrapment.....	11
4.5.3 Foot entrapment.....	12
4.6 Pinching and crushing hazards (see A.6)	12
4.7 Sharp edges, sharp points and protruding parts	13
4.7.1 General.....	13
4.7.2 Sharp edges and sharp points	13
4.7.3 Protruding parts.....	13
4.8 Access devices	13
4.9 Padding (see A.7).....	13
4.9.1 Padding coverage	13
4.9.2 Impact resistance of the frame padding and the suspension system	14
4.9.3 Protection of the poles.....	14
4.9.4 Protection of the handrails (for mini-trampolines).....	14
4.10 Strength (see A.8)	14
4.10.1 Vertical strength of the enclosure.....	14
4.10.2 Frame strength.....	14
4.10.3 Dynamic strength of enclosures	14
4.10.4 Strength of the fixations of the padding to the frame.....	14
4.10.5 Static strength of access devices	15
4.10.6 Strength of mat, suspension system and frame	15
4.11 Mat deflection (see A.9).....	15
4.12 Stability	15
5 Warnings, markings and instructions	15
5.1 General.....	15
5.2 Warnings and markings on the product (see A.10).....	16
5.2.1 General.....	16
5.2.2 Marking of the centre of the mat	16
5.3 Warnings and markings on the packaging	17
5.4 Warnings and information in the instructions for use.....	17
5.4.1 Warnings.....	17
5.4.2 Information	18

5.4.3	Assembly and maintenance instructions	18
6	Test methods	19
6.1	Dynamic tests	19
6.1.1	Padding impact test (see 4.9.2).....	19
6.1.2	Enclosure and poles impact strength test (see 4.3.3.1 and 4.10.3).....	19
6.2	Strength	21
6.2.1	Vertical strength of the enclosure (see 4.10.1).....	21
6.2.2	Frame strength (see 4.10.2).....	22
6.2.3	Strength test of mat, suspension system and frame (see 4.10.6).....	24
6.2.4	Strength of the padding fixations to the frame (see 4.10.4).....	24
6.2.5	Static strength of access devices (see 4.10.5)	24
6.3	Stability (see 4.12)	24
6.3.1	Stability of the frame	24
6.3.2	Enclosure and poles impact stability test.....	25
6.4	Testing of the assembly (see 4.3.3.1 and 4.3.3.2)	26
6.5	Durability tests (see 4.4)	27
6.5.1	Metallic parts (see 4.4.1)	27
6.5.2	Non metallic parts	27
6.6	Mat deflection test (see 4.6, 4.9.1 and 4.11).....	27
Annex A	(informative) Rationale.....	29
A.1	Scope (see Clause 1).....	29
A.2	General (see 4.1 and 4.3.3)	29
A.3	Enclosures (see 4.3).....	29
A.4	Durability of materials (see 4.4)	31
A.5	Entrapment (see 4.5)	31
A.6	Pinching and crushing hazards (see 4.6).....	31
A.7	Padding (see 4.9)	32
A.8	Strength test (see 4.10).....	32
A.9	Mat deflection (see 4.11).....	32
A.10	Warnings and markings on the product (see 5.2).....	32
Annex ZA	(informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2009/48/EC on the safety of toys	33
Bibliography		34

Foreword

This document (EN 71-14:2014) 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 2015 and conflicting national standards shall be withdrawn at the latest by June 2015.

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 has been prepared under a mandate 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].*

NOTE 1 In addition to the above parts of EN 71, the following guidance documents have been published: the CEN Report, CR 14379, *Classification of toys – Guidelines*; 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, *Safety of toys – Replies to requests for interpretation of EN 71–1, EN 71–2, and EN 71–8*.

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 organizations 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 (see A.1)

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

The scope of this European Standard excludes:

- trampolines used as gymnastic equipment, covered by EN 13219;
- floating inflatable trampolines, covered by the EN 15649 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, basket ball hoop;
- trampolines for domestic use buried at ground level.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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, *Safety of toys — Part 1: Mechanical and physical properties*

EN 71-8:2011, *Safety of toys — Part 8: Activity toys for domestic use*

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

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

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

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

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

koniec náhľadu – text ďalej pokračuje v platenej verzii STN