

SVENSK STANDARD

SS-EN 14960-1:2019



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Hoppborgar och liknande uppblåsbar lekutrustning – Del 1: Säkerhetskrav och provningsmetoder

Inflatable play equipment – Part 1: Safety requirements and test methods

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Europastandarden EN 14960-1:2019 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 14960-1:2019.

Denna standard ersätter SS-EN 14960:2013, utgåva 2.

The European Standard EN 14960-1:2019 has the status of a Swedish Standard. This document contains the official version of EN 14960-1:2019.

This standard supersedes the SS-EN 14960:2013, edition 2.

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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 Lekredskap, SIS/TK 379.

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EUROPEAN STANDARD

EN 14960-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2019

ICS 97.190; 97.200.50

Supersedes EN 14960:2013

English Version

Inflatable play equipment - Part 1: Safety requirements and test methods

Équipements de jeu gonflables - Partie 1 : Exigences de
sécurité et méthodes d'essai

Aufblasbare Spielgeräte - Teil 1: Sicherheitstechnische
Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 15 April 2019.

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

SS-EN 14960-1:2019 (E)

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SS-EN 14960-1:2019 (E)

European foreword

This document (EN 14960-1:2019) 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 November 2019, and conflicting national standards shall be withdrawn at the latest by November 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 – together with EN 14960-2:—¹ and EN 14960-3:—¹ – EN 14960:2013.

In relation to EN 14960:2013, the following main changes have been made:

- a) changes with regard to inflatables sited on hard standing;
- b) minor editing to improve the content accuracy of the document;
- c) splitting this standard into the following three parts:
 - 1) EN 14960-1, *Inflatable play equipment — Part 1: Safety requirements and test methods*;
 - 2) EN 14960-2, *Inflatable play equipment — Part 2: Additional safety requirements for Inflatable Bouncing Pillows for permanent installation* (in preparation);
 - 3) EN 14960-3, *Inflatable play equipment — Part 3: Specific safety requirements and test methods for inflatable snappies* (in preparation).

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 Both standards are under development at the time of publication.

Introduction

Play is the means by which children discover and understand the world in which they live and is an essential element in a child's physical and mental growth.

It is important for children's rounded development that, through play, they arrive at an understanding of danger, which provides a basis for assessing safety in a variety of situations. The balance between challenge and safety is an important consideration.

The inflatable play equipment referred to in this standard can provide different levels of challenge and excitement. This European Standard aims to minimize the level of risk and the possibility of serious injury while allowing children to enjoy themselves when playing in or on inflatable equipment.

This standard acknowledges the difficulties of addressing safety issues by age criteria alone because the ability to handle risk is based on the individual user's level of skill and not age. Moreover, users other than the intended age range will make use of the inflatable equipment, in which case, the provisions of this standard still apply.

It is not the purpose of the requirements of this standard to affect a child's need to play nor to lessen the contribution that inflatable play equipment makes either to the child's development or meaningful play from an educational point of view.

Where inflatable play equipment is combined with other items of children's playground equipment, the relevant standards applying to the other items of equipment should also be consulted.

SS-EN 14960-1:2019 (E)

1 Scope

This document is applicable to inflatable play equipment intended for use by children fourteen years and under both individually and collectively.

This document specifies safety requirements for inflatable play equipment for which the primary activities are bouncing and sliding. It sets measures to address risks and also to minimize accidents to users for those involved in the design, manufacture and supply of inflatable play equipment. It specifies information to be supplied with the equipment. The requirements have been laid down bearing in mind the risk factor based on available data.

This document specifies the requirements that will protect a child from hazards that he or she may be unable to foresee when using the equipment as intended, or in a manner that can be reasonably anticipated.

This document is not applicable to inflatable water-borne play and leisure equipment, domestic inflatable toys, air-supported buildings, inflatables used solely for protection, inflatables used for rescue, or other types of inflatable toys where the primary activity is not bouncing or sliding.

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 1177, *Impact attenuating playground surfacing — Determination of critical fall height*

EN 60529, *Degrees of protection provided by enclosures (IP code) (IEC 60529)*

EN ISO 1421, *Rubber- or plastics-coated fabrics — Determination of tensile strength and elongation at break (ISO 1421)*

EN ISO 2307, *Fibre ropes — Determination of certain physical and mechanical properties (ISO 2307)*

EN ISO 2411, *Rubber- or plastics-coated fabrics — Determination of coating adhesion (ISO 2411)*

EN ISO 9554, *Fibre ropes — General specifications (ISO 9554)*

EN ISO/IEC 17025:2017, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2017)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

NOTE In order not to confine the application of this European Standard to those items of equipment currently in use and hence allow freedom of design for the manufacture of new equipment, only the fundamental forms of equipment and motion are listed.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

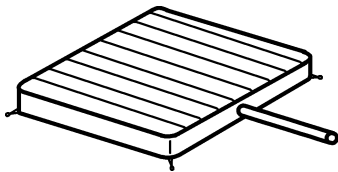
- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

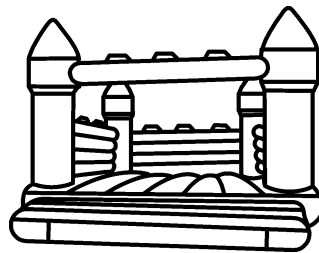
inflatable play equipment

structure relying on a continuous supply of air to maintain its shape, on or in which users may play, bounce and/or slide

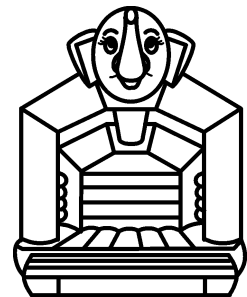
Note 1 to entry: Also referred to as an/the inflatable.



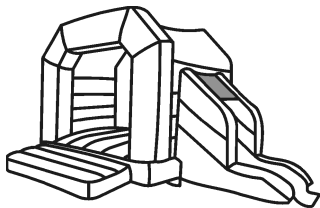
a) Flat-bed
(4 open sides)



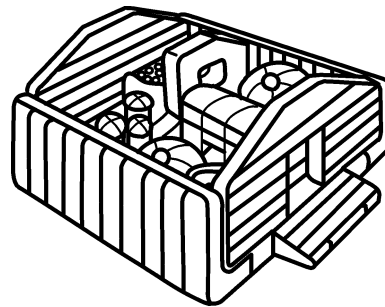
b) Castle
(3 walled sides, 1 open side)



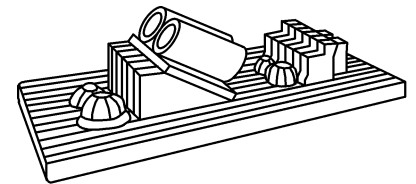
c) A-Frame inflatable
(3 walled sides, 1 open side)



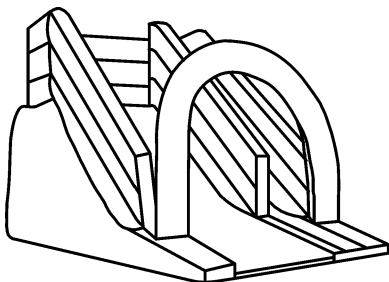
d) Bounce/Slide combination



e) Multi-Play Centre



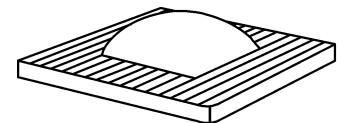
f) Obstacle course



g) Inflatable slide



h) Enclosed inflatable



i) Soft mountain

Figure 1 — Examples of inflatable play equipment

3.2

blower

powered machine used to continuously inflate the structure