

SLOVENSKI STANDARD

SIST EN 14960-3:2020

01-december-2020

Nadomešča:
SIST EN 14960:2013

Napuhljiva igralna oprema - 3. del: Dodatne varnostne zahteve in metode za preskušanje napuhljivih elementov

Inflatable play equipment - Part 3: Additional safety requirements and test methods for snappies

Aufblasbare Spielgeräte - Teil 3: Spezifische sicherheitstechnische Anforderungen und Prüfverfahren für aufblasbare Snappies

Equipements de jeu gonflables - Partie 3 : Exigences de sécurité et méthodes d'essai supplémentaires pour les jeux gonflables articulés

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Ta slovenski standard je istoveten z: EN 14960-3:2020

ICS:

97.190	Otroška oprema	Equipment for children
97.200.50	Igrače	Toys

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en,fr,de

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EUROPEAN STANDARD

EN 14960-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2020

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Supersedes EN 14960:2013

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Inflatable play equipment - Part 3: Additional safety requirements and test methods for snappies

Équipements de jeu gonflables - Partie 3 : Exigences de sécurité et méthodes d'essai supplémentaires pour les jeux gonflables articulés

Aufblasbare Spielgeräte - Teil 3: Spezifische sicherheitstechnische Anforderungen und Prüfverfahren für aufblasbare Snappies

This European Standard was approved by CEN on 26 July 2020.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

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European foreword

This document (EN 14960-3:2020) 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 March 2021, and conflicting national standards shall be withdrawn at the latest by March 2021.

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, together with EN 14960-1:2019 and EN 14960-2:2019, supersedes EN 14960:2013.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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EN 14960-3:2020 (E)**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 document can provide different levels of challenge and excitement. This document 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 document 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 might make use of the inflatable equipment, in which case, the provisions of this document still apply.

It is not the purpose of the requirements of this document 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.

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1 Scope

This part of EN 14960 is applicable to inflatable play equipment intended for use by children fourteen years and under, both individually and collectively.

This part of EN 14960 specifies additional safety requirements for snappies for which the primary activities are climbing 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 part of the EN 14960 specifies requirements to protect a child from hazards that he or she might be unable to foresee when using the equipment as intended, or in a manner that can be reasonably anticipated.

This part of the EN 14960 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 14960-1:2019, *Inflatable play equipment - Part 1: Safety requirements and test methods*

EN 1177:2018+AC:2019, *Impact attenuating playground surfacing – Methods of test for determination of impact attenuation*

3 Terms and definitions

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For the purposes of this document, the terms and definitions given in EN 14960-1 and the following 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 <https://www.iso.org/obp>

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

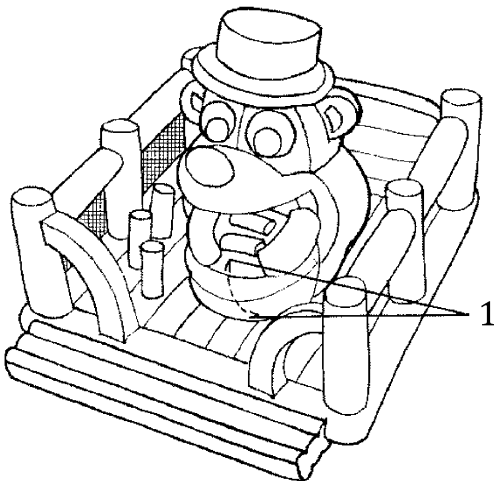
3.1

snappy

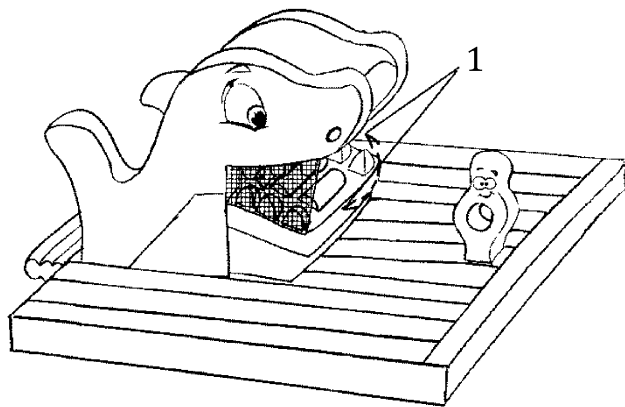
inflated play structure built into a base inflatable bed, with a hinged inflatable platform which elevates users to a higher platform from which they may exit by a slide, ramp, steps, or other methods

Note 1 to entry: Examples of snappies are shown in Figure 1.

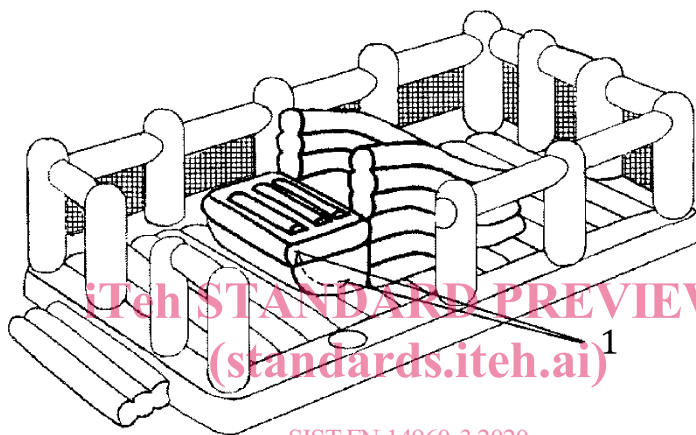
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a) Roofed snappy on a walled inflatable base



b) Roofed snappy on a flat inflatable base



c) Snappy without roof on a walled inflatable base

Key

- 1 movement of hinged section

Figure 1 — Examples of snappy

3.2 blower

powered machines used to continuously inflate the base inflatable structure and to intermittently inflate the hinged platform of the snappy

4 Free height of fall

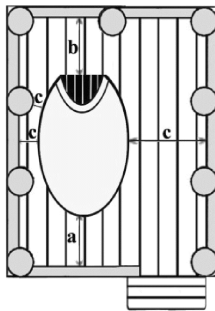
The free height of fall from the hinged platform to the inflated bed below shall be $\leq 3,0$ m, provided that the inflated bed has sufficient impact attenuation properties according to EN 1177:2018+AC:2019.

5 Positioning of snappy structures on base inflatable beds

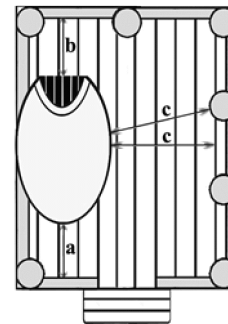
The clear space requirement around a snappy on a walled inflatable shall be (see Figure 2):

- Entrance** - ≥ 50 % of the height of the highest point of the hinged platform in its fully raised position, measured from the surface of the base inflatable bed, with dimension $a \geq 1,2$ m;
- Exit** - when exiting the snappy structure involves forced movement, e.g. sliding, ≥ 50 % of the height of the top platform of the slide, measured from the surface of the base inflatable bed $+0,5$ m;

- c) **Sides** - when one side of the snappy structure is integral with the outside wall of the base inflatable, clear space at the other side shall be sufficient to allow safe, unobstructed evacuation of the users and, in any case, $\geq 1,2$ m; when neither side is integrated with the outside wall of the base inflatable, the clear space at one side shall be $\geq 0,5$ m and at the other side sufficient to allow safe, unobstructed evacuation of the users and, in any case, $\geq 1,2$ m.



a) snappy structure not integral with outside wall of the base inflatable



b) snappy structure integral with outside wall of the base inflatable

Key

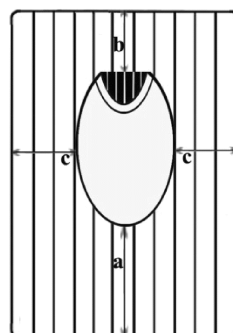
- a minimum distance between the entrance of the snappy and the adjacent wall
- b minimum distance between the exit of the snappy and the adjacent wall
- c minimum distances between the sides of the snappy and the adjacent walls

Figure 2 — Minimum distances to adjacent walls

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The clear space requirement around a snappy on an inflatable without walls shall be (see Figure 3):

- a) **Entrance** - ≥ 50 % of the height of the highest point of the hinged platform, measured from the surface of the base inflatable bed + 1,5 m;
- b) **Exit** - when exiting the snappy structure involves forced movement, e.g. sliding, ≥ 50 % of the height of the top platform of the slide, measured from the surface of the base inflatable bed + 1,0 m;
- c) **Sides** - $\geq 2,0$ m.



Key

- a minimum distance between the entrance of the snappy and the outer edge of the bed
- b minimum distance between the exit of the snappy and the outer edge of the bed
- c minimum distances between the sides of the snappy and the outer edges of the bed

Figure 3 — Minimum distances to the adjacent edge of the bed

All spaces in Figure 2 and Figure 3 shall be clear to the height of the tallest user allowed to use the inflatable.