



SLOVENSKI STANDARD

oSIST prEN 14960-3:2019

01-oktober-2019

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 Prüferfahren für aufblasbare Snappies

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

Ta slovenski standard je istoveten z: **prEN 14960-3**

ICS:

97.190	Otroška oprema	Equipment for children
97.200.50	Igrače	Toys

oSIST prEN 14960-3:2019

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 14960-3

August 2019

ICS 97.190; 97.200.50

English Version

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

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

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 136.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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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<https://standards.iteh.ai/catalog/standards/sist/249e9291-0744-42c7-aa25-9ee199ffc3e4/sist->

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European foreword

This document (prEN 14960-3:2019) 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 document is currently submitted to CEN Enquiry.

This document, together with EN 14960-1:2019 and prEN 14960-2:2018, will supersede EN 14960:2013.

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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 European Standard can provide different levels of challenge and excitement. This 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 might 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.

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1 Scope

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

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

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 <https://www.iso.org/obp>

Note 1 to entry: 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.

prEN 14960-3:2019 (E)

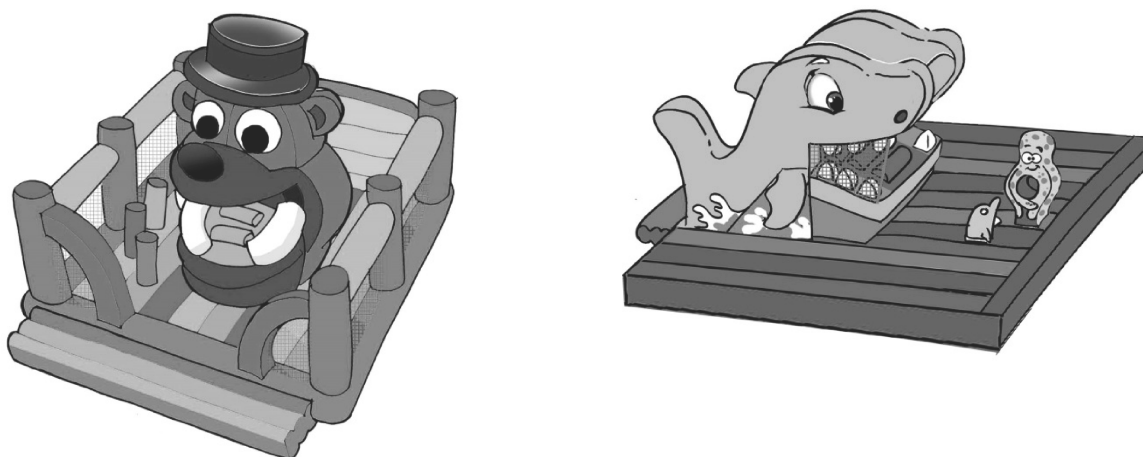
3.1

snappy

inflated structure built onto a base inflatable bed

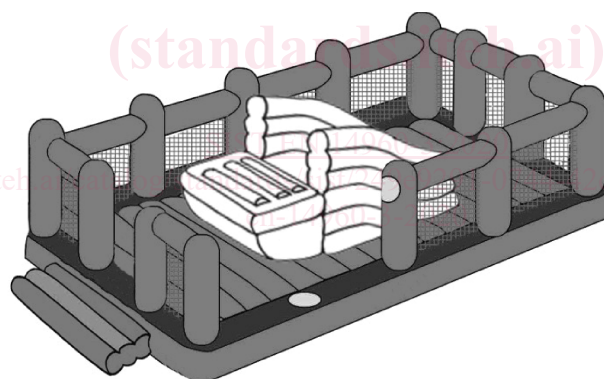
Note 1 to entry: It serves to raise users on a hinged elevating surface to a higher platform from which they may exit via a slide, ramp or steps or other method.

Note 2 to entry: See Figure 1.



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

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.

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):

- a) **Entrance** - $\geq 50\%$ 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 $a \geq 1,2$ m;
- b) **Exit** - when exiting the snappy structure involves forced movement, e.g. sliding, $\geq 50\%$ 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

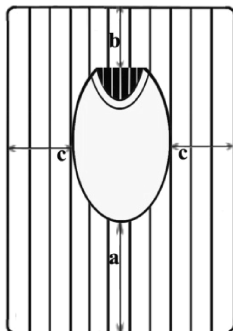
Key

- 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

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

- a) **Entrance** - $\geq 50\%$ 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, $\geq 50\%$ 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.

6 Containment

6.1 General

The snappy structure shall not provide a platform which can serve as a step-up towards the top of an exterior wall of the base inflatable. (standards.iteh.ai)

6.2 Snappy without roof

The hinged platform shall have containing walls of at least the user height on both sides when, in the raised position, any part of it is >1,2 m high, measured from the surface of the base inflatable bed. SIST EN 14960-3:2020

7 Entrapment

7.1 General

Entrapment caused by the shearing motion of the hinged platform shall be avoided.

7.2 Snappy with a roof

7.2.1 Inner aperture

The aperture formed inside the snappy structure shall be in accordance with EN 14960-1:2019, 4.2.5.5, for body entrapment.

7.2.2 Netting

The mesh size of netting used to contain the user on the hinged platform shall be small enough to prevent the 8 mm finger rod from passing through.

7.2.3 Inner space at entrance

A gap shall be maintained between the upper and lower jaws of the snappy at all times, see EN 14960-1:2019, 4.2.5.5, for body entrapment.