SLOVENSKI STANDARD
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Izdelki za otroke - 2. del: Otroški pasovi, ki so del nahrbtnika, in vajeti - Varnostne zahteve in preskusne metode

Child care articles - Part 2: Children's harnesses incorporating backpacks and reins - Safety requirements and test methods

Artikel für Säuglinge und Kleinkinder - Teil 2: Sicherheitsgeschirre einschließlich Rucksäcken und Zügeln - Sicherheitsanforderungen und Prüfverfahren

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97.190	Otroška oprema	Equipment for children

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EUROPEAN STANDARD

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English Version

Child care articles - Part 2: Children's harnesses incorporating backpacks and reins - Safety requirements and test methods

Artikel für Säuglinge und Kleinkinder - Teil 2: Sicherheitsgeschirre einschließlich Rucksäcken und Zügeln - Sicherheitsanforderungen und Prüfverfahren

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 252.

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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 13210-2:2019) has been prepared by Technical Committee CEN/TC 252 “Child use and care articles”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 13210:2004.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

1 Scope

This document specifies the minimum safety requirements and test methods for children's harnesses incorporating backpacks and/or toys with a leading rein for restraining children when walking, with the ability to walk competently and for use up to 48 months of age.

If the product has other functions not covered in this document, the relevant European standard can be consulted.

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, *Safety of toys — Part 1: Mechanical and physical properties*

EN 71-2:2011+A1:2014, *Safety of toys — Part 2: Flammability*

EN 71-3, *Safety of toys — Part 3: Migration of certain elements*

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
harness with backpack or toy
restraint system designed to fit around a child's torso comprising a strap or fabric assembly or a combination of both incorporating a storage bag or toy, a grab handle and/or attachment point(s) for a leading rein (3.8)

Note 1 to entry: See Figure 1.

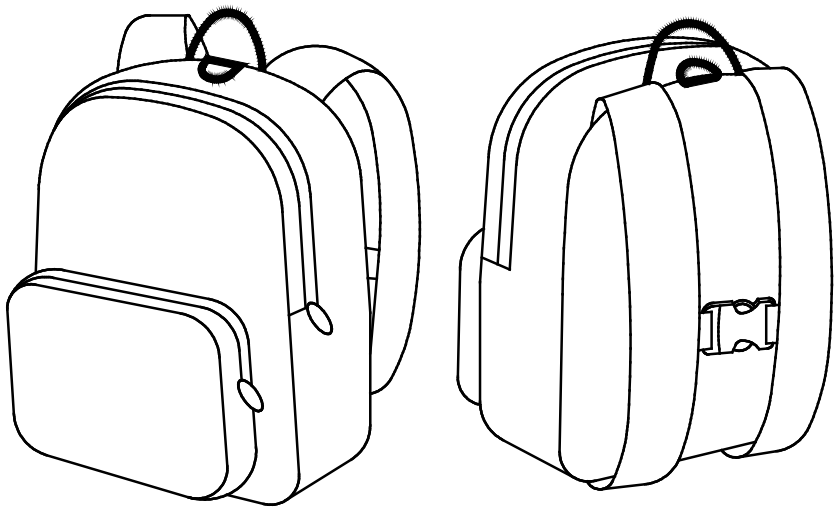


Figure 1 — Example of a harness incorporating a backpack

3.2
backpack
storage bag worn on the child's back

3.3
toy
toy with a soft body surface which may be filled with soft material or useable as a storage bag, or a combination of both, worn on the child's back

3.4
waist belt
part of the harness which passes around the child's torso

3.5
shoulder straps
parts of the harness which pass over each shoulder of the child

3.6
chest strap
strap(s) or a fastening system or combination of both which is attached to the shoulder straps and positioned across the front of the child's torso

3.7
grab handle
short strap fixed at both ends at the top of the backpack/toy

3.8
leading rein
rein which comprises a single continuous strap which is attached at a single point to the harness/backpack/toy

4 Test equipment

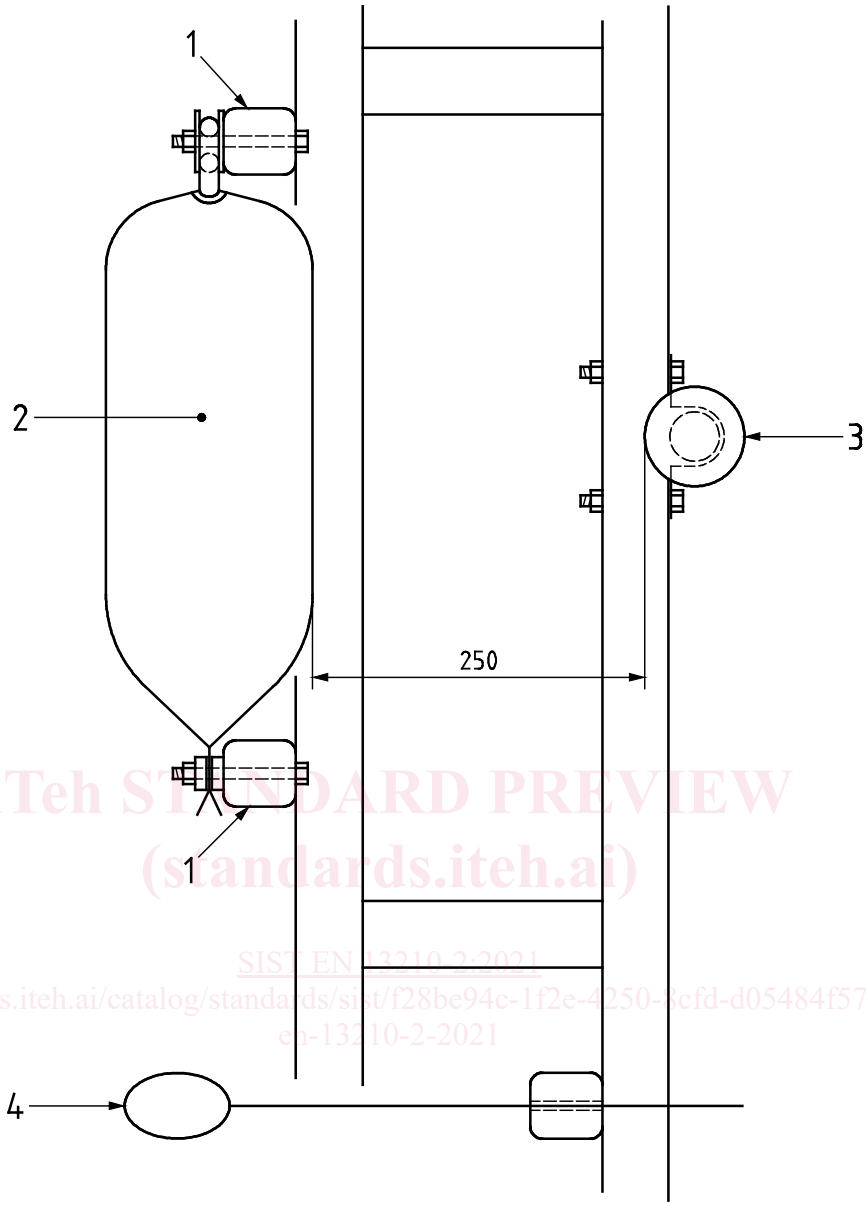
4.1 Test frame

Rigid test frame comprising:

— two horizontal members against which the test dummy top eyebolt and bottom clamp may be secured by bolts or clamps;

— 75 mm diameter convey belt roller positioned with a horizontal gap of (250 ± 10) mm between the test dummy and roller. It shall be possible to adjust the height of the roller and/or the horizontal members supporting the test dummy;

— height adjustable dynamic mass release mechanism(See Figure 2).



Key

1 horizontal members
2 test dummy
3 roller
4 dynamic mass release mechanism

Figure 2 — Test frame

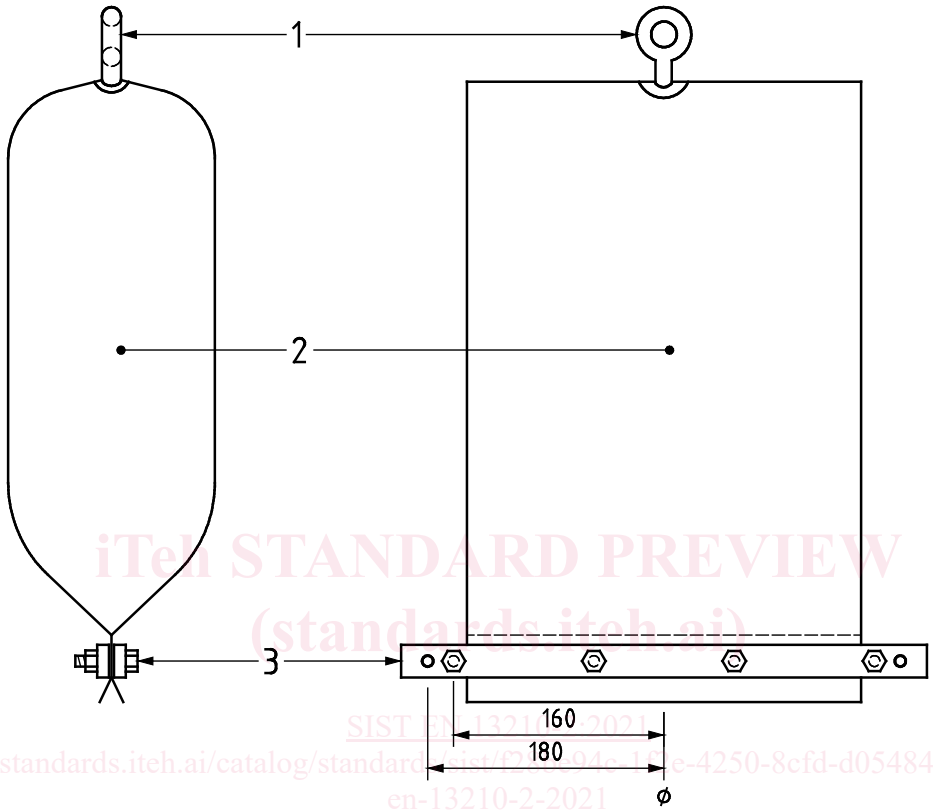
4.2 Test dummy

Dummy comprising:

Bag 300 mm wide and 470 mm long filled with dry compacted sand, so that the whole constitutes a rigid form (see Figure 3);

— inside the closed end of the bag is a rectangular metal bar, 260 mm long, 25 mm high and 6 mm wide connected at the centre of its length to an eyebolt passing through an eyelet;

— the open end of the bag shall be sewn osed 50 mm from the bottom of the bag and clamped between two rectangular bars, of minimum dimensions 400 mm long, 25 mm high and 6 mm wide each with four holes drilled with the centres 160 mm and 180 mm from the centre of the bar and secured with nuts and bolts through the inner holes. Additional holes may be drilled in the bar to ensure that the bag is securely clamped. The outer holes enable the bottom of the dummy to be secured to the horizontal beam of the test frame.



Key

1 eyebolt
2 bag
3 clamp

Figure 3 — Test dummy

4.3 Test mass assembly

4.3.1 General

Assembly that includes shackles, spring, static mass and dynamic mass.

The total mass of the assembly shall be (12 ± 0,1) kg.

The dynamic mass shall be (5 ± 0,05) kg and be capable of falling freely from a height of 300 mm (see Figure 4).

4.3.2 Spring

A spring with the following characteristics shall be used to support the static and dynamic mass from the suspension bar:

Stiffness	28 000 N/M ± 10 %;
Diameter of wire	3 mm;
External diameter	16 mm;
Length without load	45mm ± 5 mm.

4.3.3 Shackles

Shackles shall have a diameter of 10 mm at the roundest end.

4.3.4 Release mechanism

Bar or rod supported by the test frame which is withdrawn to release the dynamic mass.

4.3.5 Grab handle test strap

A piece of (47 ± 3) mm wide webbing with a loop sewn into each end. The length of the strap including loops shall be (1 200 ± 50) mm.

NOTE Vehicle seat belt webbing fits this criteria