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Izdelki za otroke - 1. del: Otroški pasovi in vajeti - Varnostne zahteve in preskusne metode

Child care articles - Part 1: Children's harnesses, reins - Safety requirements and test methods

Artikel für Säuglinge und Kleinkinder - Sicherheitsgeschirre und Zügel - Sicherheitsanforderungen und Prüfverfahren

Articles de puériculture - Harnais et laisses de promenade - Exigences de sécurité et méthodes d'essai

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97.190 Otroška oprema Equipment for children

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Child care articles - Part 1: Children's harnesses, reins - Safety requirements and test methods

Articles de puériculture - Harnais et laisses de
promenade - Exigences de sécurité et méthodes d'essai

Artikel für Säuglinge und Kleinkinder -
Sicherheitsgeschirre und Zügel -
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.

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.

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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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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prEN 13210-1:2019 (E)

European foreword

This document (prEN 13210-1:2019) 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 13210-1:2004.

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

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1 Scope

This document specifies the minimum safety requirements and test methods for strap and/or fabric assemblies for restraining children from birth up to 48 months of age. These products are provided with a rein for use when the child is walking and/or with detachable straps for use in child use and care articles which are fitted with specified attachment points.

This document does not cover backpacks with a leading rein which are covered in prEN 13210-2.

This document does not apply to the following:

- restraint systems permanently fitted as an integral feature of child use and care articles;
- restraint systems intended for children with special needs;
- restraint systems for use in motorised and power driven vehicles.

If the product has other functions not covered in this document, reference should be made to the relevant European standard.

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 — Mechanical and physical properties*

EN 71-3, *Safety of toys — 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>

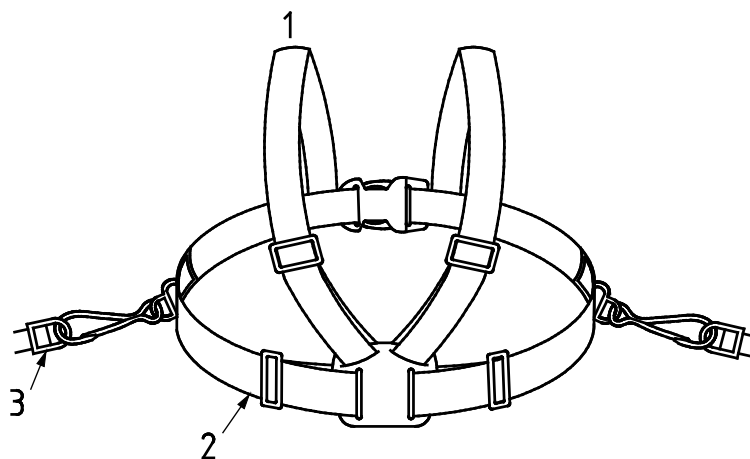
3.1

harness

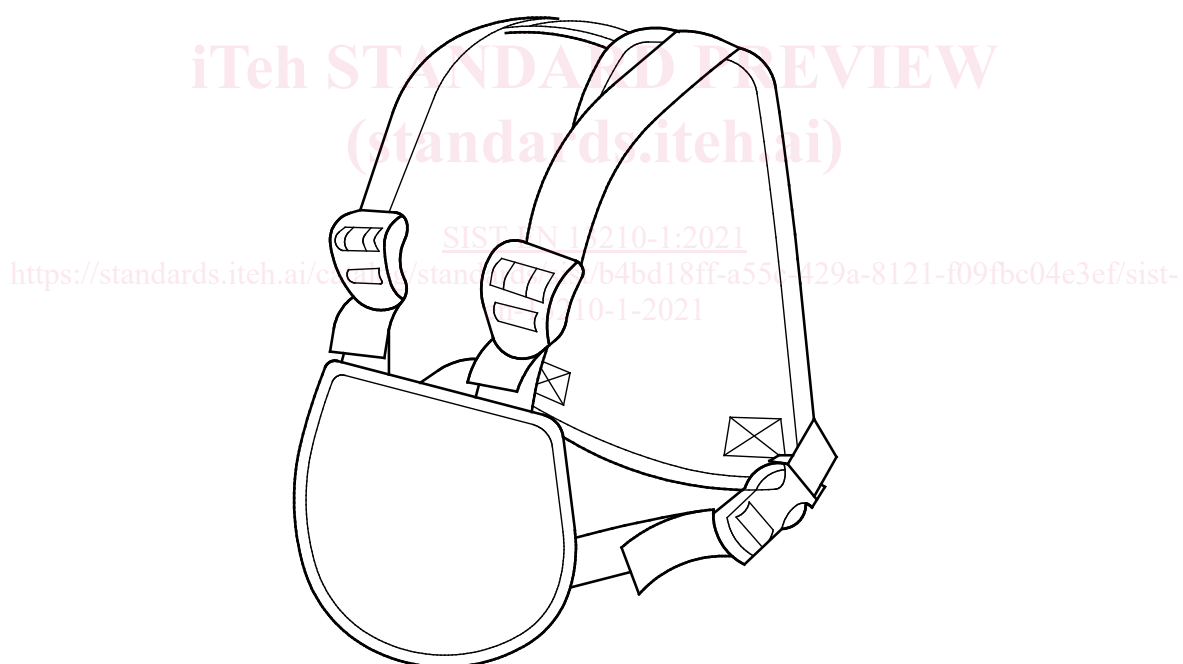
restraint system designed to fit around the child's torso comprising a strap or fabric assembly or a combination of both incorporating attachment point(s) for a rein and/or anchorage straps

Note 1 to entry: See Figures 1 and 2.

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**Key**

- 1 shoulder strap
- 2 waist belt
- 3 anchor straps

Figure 1 — Example of a strap assembly harness**Figure 2 — Example of a harness including a fabric assembly****3.2****waist belt**

part of the harness which passes around the child's torso

3.3**shoulder straps**

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

3.4**anchor straps**

adjustable straps which are used to secure the harness to the specified harness anchorage points of a child use and care article

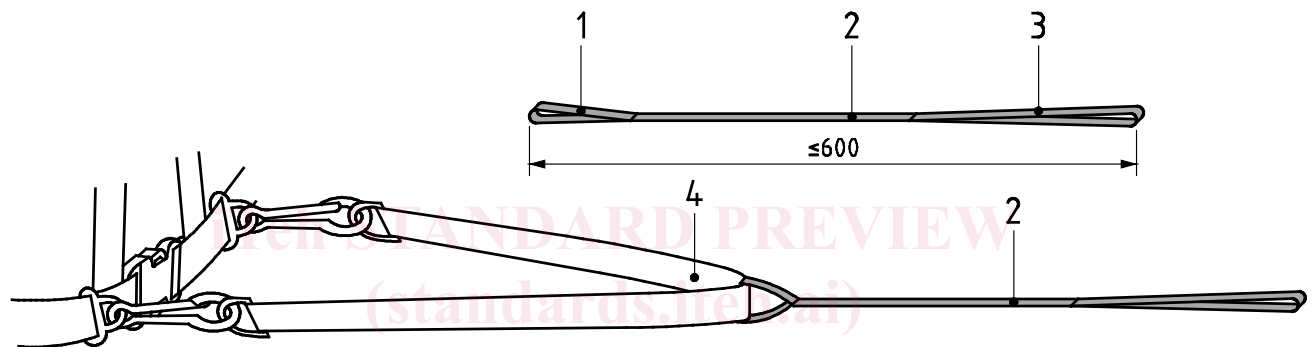
3.5**training rein**

single continuous strap which is attached to both sides of the harness to be held at the mid-point by the carer

3.6**training rein extender**

single continuous strap which is attached to a training rein with a wrist loop or a hand grip to be held by the carer

Note 1 to entry: See Figure 3.

**Key**

- 1 sewn loop
- 2 training rein extender
- 3 hand hold/wrist loop
- 4 training rein

Figure 3 — Example of training rein extender

3.7**leading rein**

single continuous strap which is attached at a single point to the harness with a wrist loop or a hand grip to be held by the carer

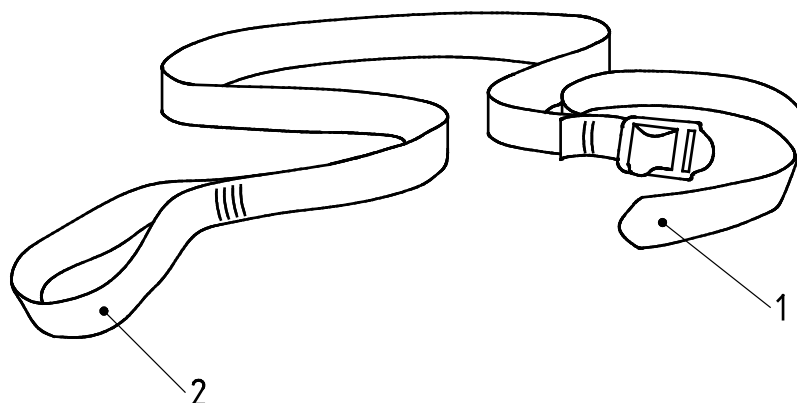
3.8**attachment strap**

adjustable straps fitted with appropriate fastenings e.g. buckles and hooks, which are used to secure the harness to the specified harness attachment points of a child use and care article

3.9**wrist type walking rein**

single strap with a loop for securing to the child's wrist at one end and a wrist loop or a hand grip to be held by the carer at the other end

Note 1 to entry: See Figure 4.

**Key**

- 1 child's wrist loop
- 2 carer's wrist loop or hand grip

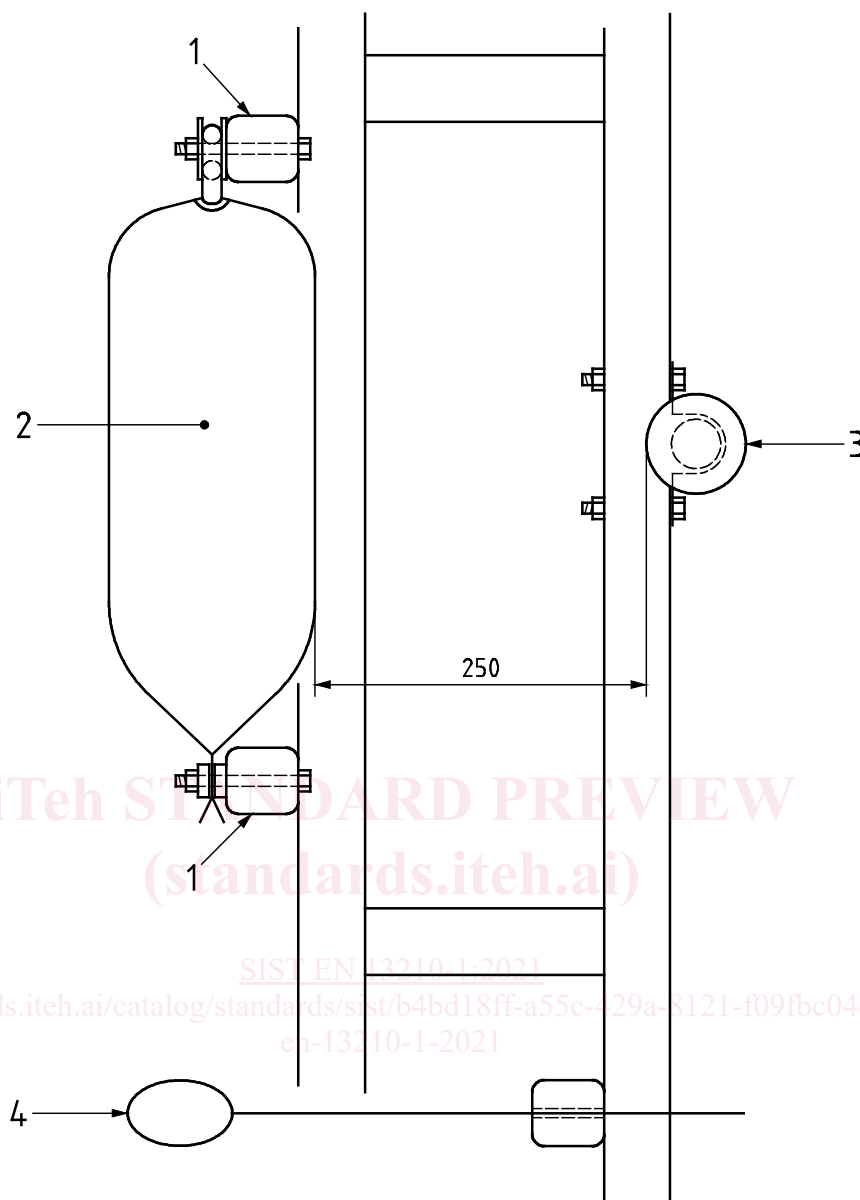
Figure 4 — Example of wrist type walking rein

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 5).

**Key**

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

Figure 5 — Test frame**4.2 Test dummy**

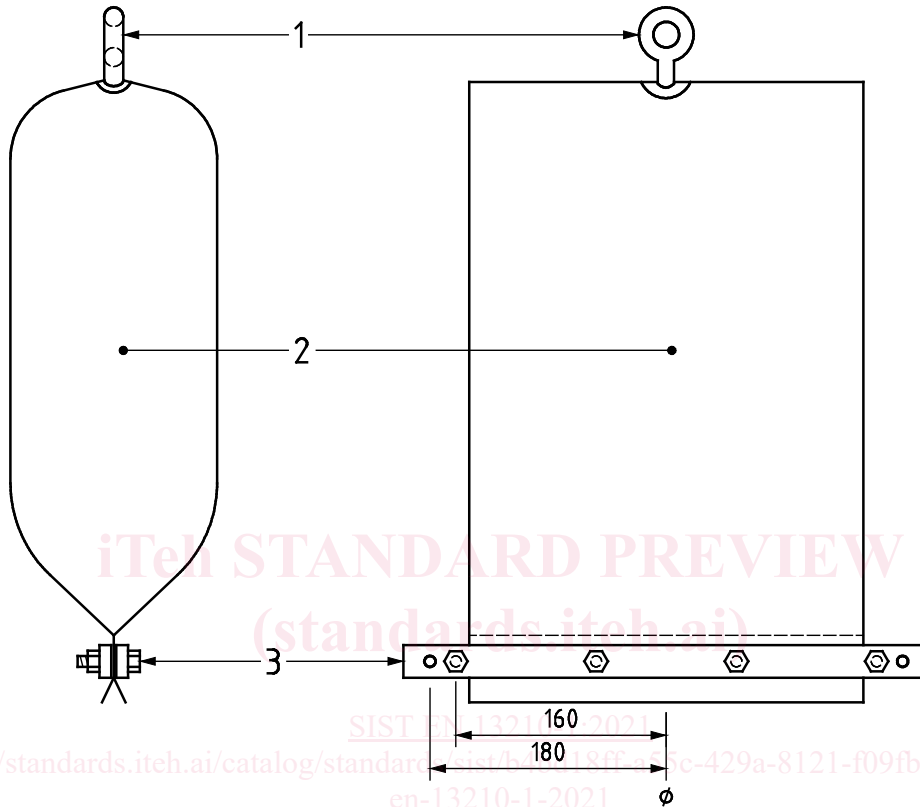
Dummy comprising:

Bag 300 mm wide and 470 mm long filled with dry compacted sand, so that the whole constitutes a rigid form, see Figure 5;

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;

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The open end of the bag shall be sewn closed 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 (see Figure 6).



Key

- 1 eyebolt
- 2 bag
- 3 clamp

Figure 6 — Test dummy

4.3 Test mass assembly

4.3.1 General

Assembly that includes a suspension bar, shackles, spring, static mass and dynamic mass.

The total mass of the assembly, excluding dynamic mass shall be $(7 \pm 0,1)$ kg.

When the suspension bar and top shackles are not used, the static mass shall be adjustable so that the total mass of the assembly excluding dynamic mass shall be $(7 \pm 0,1)$ kg.

The dynamic mass shall be either $(13 \pm 0,05)$ kg or $(5 \pm 0,05)$ kg and be capable of falling freely from a height of 300mm as shown in Figure 7.

The whole assembly can be used as a static mass.