



SLOVENSKI STANDARD

SIST EN 13210-2:2021

01-februar-2021

Nadomešča:
SIST EN 13210:2005

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

Articles de puériculture - Partie 2 : Harnais équipés de sacs à dos et de laisses de promenade pour enfants - Exigences de sécurité et méthodes d'essai

Ta slovenski standard je istoveten z: EN 13210-2:2020

ICS:

97.190 Otroška oprema Equipment for children

SIST EN 13210-2:2021 en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13210-2

November 2020

ICS 97.190

Supersedes EN 13210:2004

English Version

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

Articles de puériculture - Partie 2 : Harnais équipés de
sacs à dos et de laisses de promenade pour enfants -
Exigences de sécurité et méthodes d'essai

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

This European Standard was approved by CEN on 17 August 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.

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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.

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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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European foreword

This document (EN 13210-2:2020) has been prepared by Technical Committee CEN/TC 252 “Child care articles”, the secretariat of which is held by AFNOR.

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 May 2021, and conflicting national standards shall be withdrawn at the latest by May 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 13210-1:2020, supersedes EN 13210:2004.

This document has been prepared under mandate M/264 given to CEN by the European Commission and the European Free Trade Association.

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 13210-2:2020 (E)**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 71-3:2019, *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 <https://www.iso.org/obp>
<https://standards.iteh.ai/catalog/standards/sist/f28be94c-1f2e-4250-8cfd-d05484f579cd/sist-en-13210-2-2021>

3.1**harness with backpack or toy**

restraint system designed to fit around the 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.

3.2**backpack**

storage bag worn on the child's back

3.3**toy**

toy, clothed or unclothed, with soft body surfaces and filled with soft materials, readily allowing compression of the main part of the toy with the hand or useable as a storage bag, or a combination of both, attached to a harness or with an integral harness and worn on the child's back

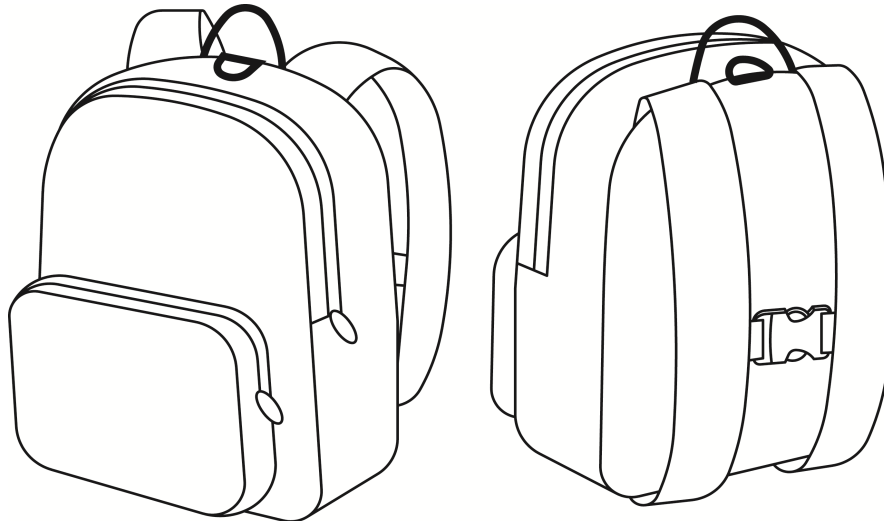


Figure 1 — Example of a harness incorporating a backpack

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

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

4 Test equipment

4.1 Test frame

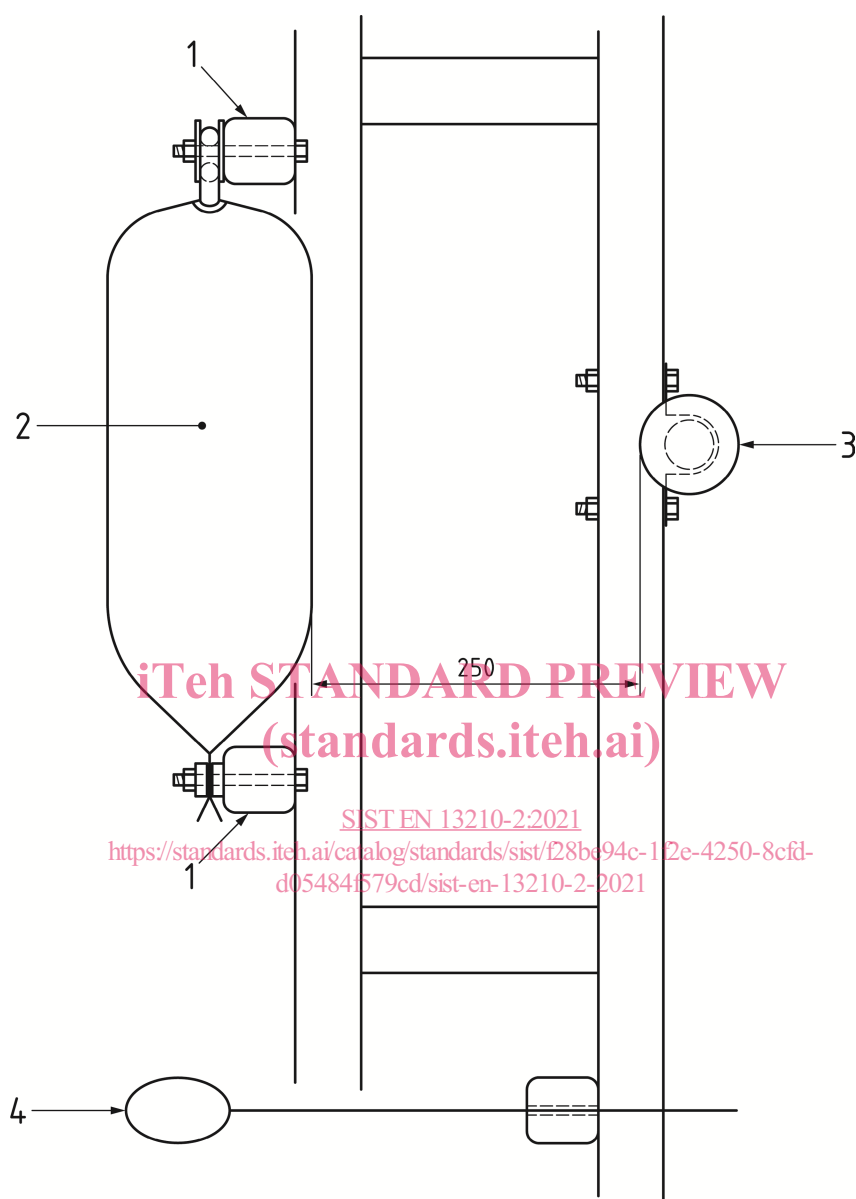
Rigid test frame comprising:

- 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;

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

Dimensions in millimetres



Key

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

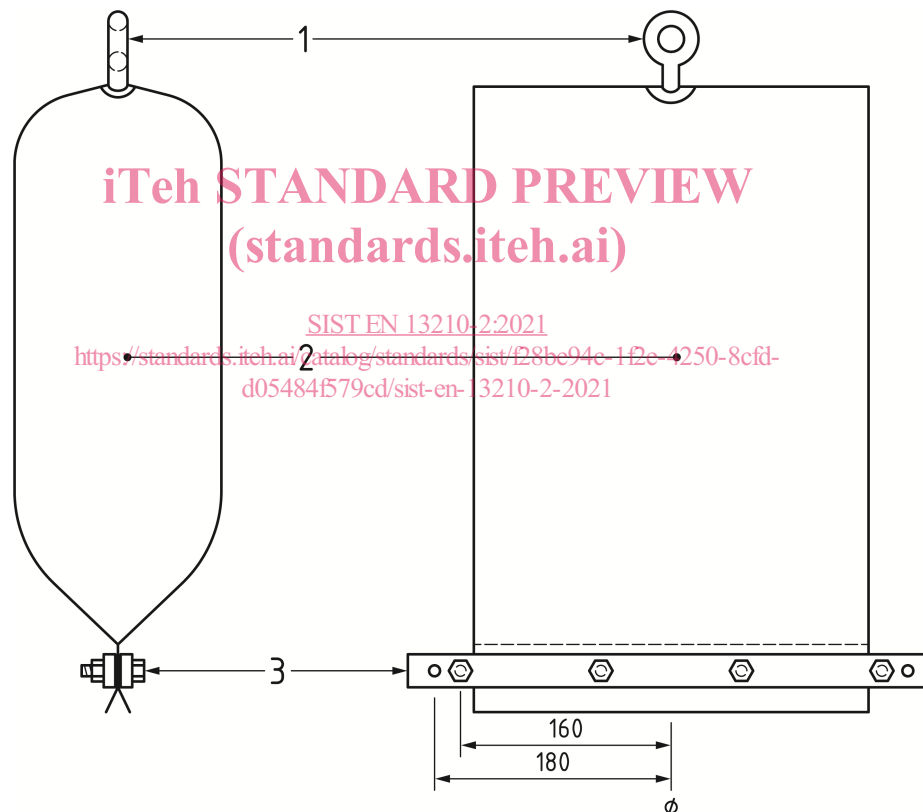
Figure 2 — Test frame

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 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.

Dimensions in millimetres



Key

- 1 eyebolt
- 2 bag
- 3 clamp

Figure 3 — Test dummy

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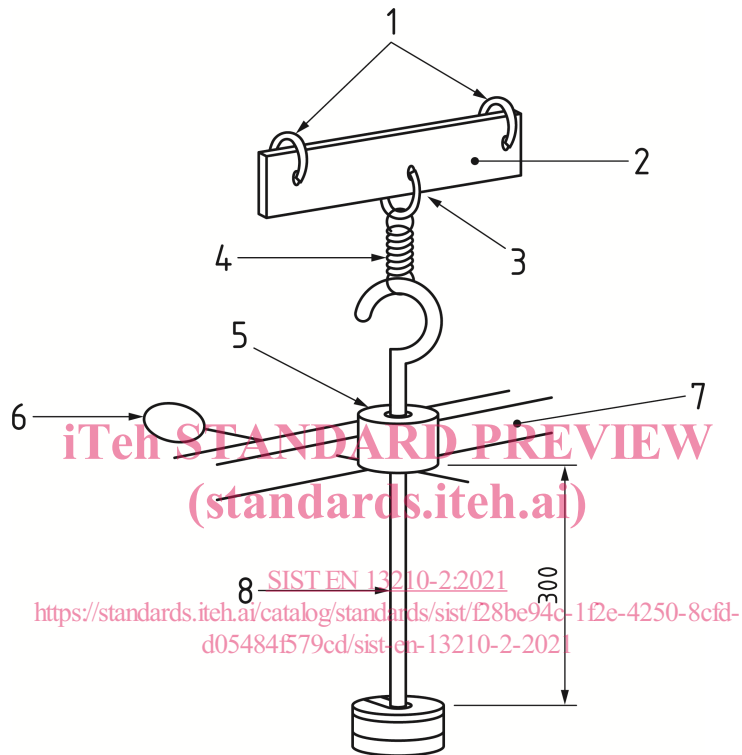
4.3 Test mass assembly

4.3.1 General

Assembly that includes shackles, spring, static mass and dynamic mass. The total mass of the assembly shall be $(12 \pm 0,1)$ kg.

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

Dimensions in millimetres



Key

- 1 top shackles
- 2 suspension bar
- 3 shackle
- 4 spring
- 5 dynamic mass
- 6 release mechanism
- 7 test frame
- 8 static mass

Figure 4 — Test mass assembly

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 ± 10 %) N/M;
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.

5 General test conditions

5.1 General

The tests shall be carried out in the order that they are listed in this document and on one sample, unless otherwise stated.

5.2 Tolerances

Unless stated otherwise, all forces, masses and dimensions of the test equipment shall have tolerances as follows:

- forces ± 5 %;
- masses ± 0,5 %;
- dimensions ± 0,5 mm.

6 Chemical hazards

A separate unconditioned sample shall be used for this test.

Migration of elements from surface materials shall not exceed the limits listed when tested in accordance with EN 71-3:2019.