



SLOVENSKI STANDARD

SIST EN 716-2:1996

01-april-1996

**Pohištvo - Otroške postelje in zložljive posteljice za domačo uporabo - 2. del:
Preskusne metode**

Furniture - Children's cots and folding cots for domestic use - Part 2: Test methods

Möbel - Kinderbetten und Reisekinderbetten für den Wohnbereich - Teil 2: Prüfverfahren

Meubles - Lits fixes et lits pliants pour enfants à usage domestique - Partie 2: Méthodes
d'essai

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ICS:

97.140

Pohištvo

Furniture

SIST EN 716-2:1996

en

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EUROPEAN STANDARD

EN 716-2

NORME EUROPÉENNE

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May 1995

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Descriptors: furnishing, child care article, household appliances, childrens furniture, beds, safety, accident prevention, tests

English version

Furniture - Children's cots and folding cots for domestic use - Part 2: Test methods

Meubles - Lits fixes et lits pliants pour enfants à usage domestique - Partie 2: Méthodes d'essai

Möbel - Kinderbetten und Reisekinderbetten für den Wohnbereich - Teil 2: Prüfverfahren

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 207 "Furniture", of which the secretariat of which is held by IBN.

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of an identical text or by endorsement, at the latest by November 1995, and conflicting national standards shall be withdrawn at the latest by November 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

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Introduction

This Part of EN 716 has been prepared in order to provide assurance that cots and folding cots conforming to the requirements in EN 716-1 are reasonably safe.

It describes among others a number of tests consisting of the application, to various parts of the item, of loads or forces simulating normal functional use, as well as misuse that can reasonably be expected to occur.

The tests are designed to evaluate properties without regard to materials, design/construction or manufacturing processes.

CEN/TC 207 has agreed to write a separate Part 3 of this standard including additional safety requirements and test methods for folding cots to those stated in clauses 4.2.9 and 4.2.11 of prEN 716-1. When Part 3 has been published, Part 1 will be checked to see whether these paragraphs need to be amended.

1 Scope

This Part of EN 716 describes test methods that assess the safety of children's cots and folding cots for domestic use.

It applies to cots and folding cots with an internal length between 900 mm and 1400 mm that are designed to prevent the child from climbing out. It does not cover rocking and swinging cots.

The tests are designed to be applied to a cot that is fully assembled and ready for use.

NOTE: The test results are only valid for the article tested. When the test results are intended to be applied to other similar articles, the test specimen should be representative of the production model.

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In the case of designs not catered for in the test procedures, the test should be carried out as far as possible as described, and a list made of the deviations from the test procedure.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revisions. For undated references the latest edition of the publication referred to applies.

prEN 716-1	Children's cots and folding cots for domestic use - Part 1: Safety requirements
ISO 48:1979	Rubber, vulcanized or thermoplastic - Determination of hardness (hardness between 10 IRHD and 100 IRHD)
ISO 2439:1980	Polymeric materials, cellular flexible - Determination of hardness (indentation technique)

3 General

For tolerances, all forces shall have an accuracy of $\pm 5\%$, all masses an accuracy of $\pm 0,5\%$ and all dimensions an accuracy of $\pm 0,5$ mm.

Before any of the tests described in this part of EN 716 are commenced, the item shall be old enough to ensure that it has developed its full strength. At least 4 weeks in normal indoor conditions shall have elapsed between manufacture and testing in the case of glued joints.

Before testing, any fabrics used for folding cots shall be cleaned or washed twice following the manufacturer's instructions.

Immediately before testing, the cot shall be stored for at least 1 week in a standardized atmosphere at a temperature of $(23 \pm 2)^\circ\text{C}$ and a relative humidity of $(50 \pm 5)\%$.

The furniture shall be tested as delivered. If of knock-down type, it shall be assembled according to instructions supplied with the furniture. If the furniture can be assembled or combined in different ways, the most adverse combinations shall be used for each test. The test shall be carried out as listed on the same specimen.

Knock-down fittings shall be tightened before testing and shall not be retightened throughout the testing procedure.

4 Test equipment

NOTE: Unless specified otherwise, test forces may be applied by any suitable device, because results are dependent only upon correctly applied forces and loads, and not upon the apparatus.

4.1 slide gauge

A cone made of plastics or other hard, smooth material mounted on a force-measuring device (see figure 1). There shall be 6 cones having diameters 7 mm, 25 mm, 45 mm, 60 mm, 65 mm and 85 mm respectively.

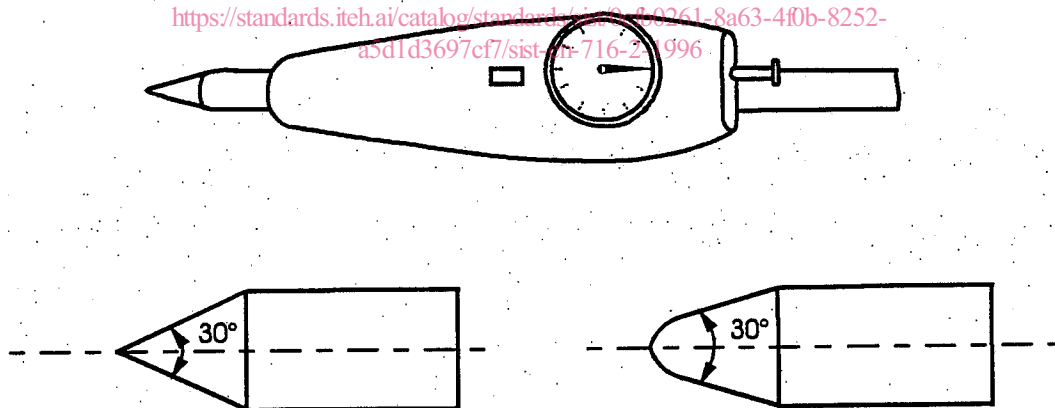


Figure 1: Examples of measuring cones

4.2 bottom impactor

An impactor with a total mass of 10 kg of hardwood or equivalent material, with dimensions in accordance with figure 2.

4.10 test chains, ball chains with a ball diameter of 3,2 mm and a distance between ball centres of 4,0 mm (see figure 4), fixed to a 2,5 kg spherical weight with a diameter of 115 mm, and

- forming a loop in accordance with figure 5; or
- fixed at one end to a device in accordance with figure 6a made of stainless steel and with a total mass of (50 ± 1) g.

Dimensions in millimetres

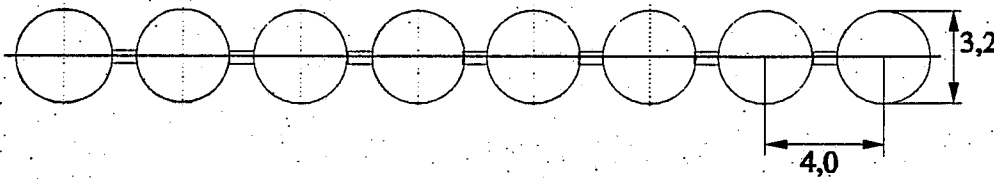


Figure 4: Test chain

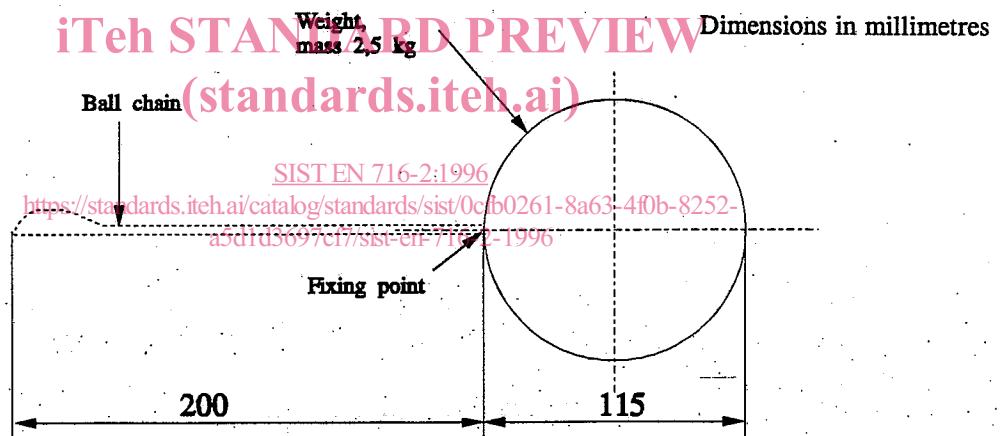
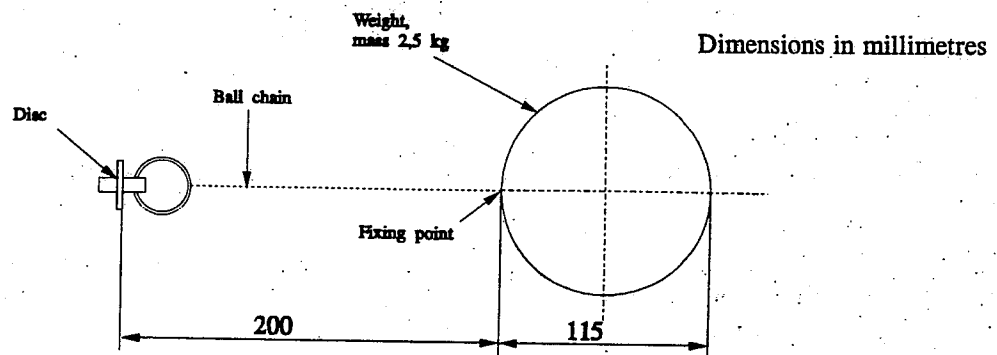
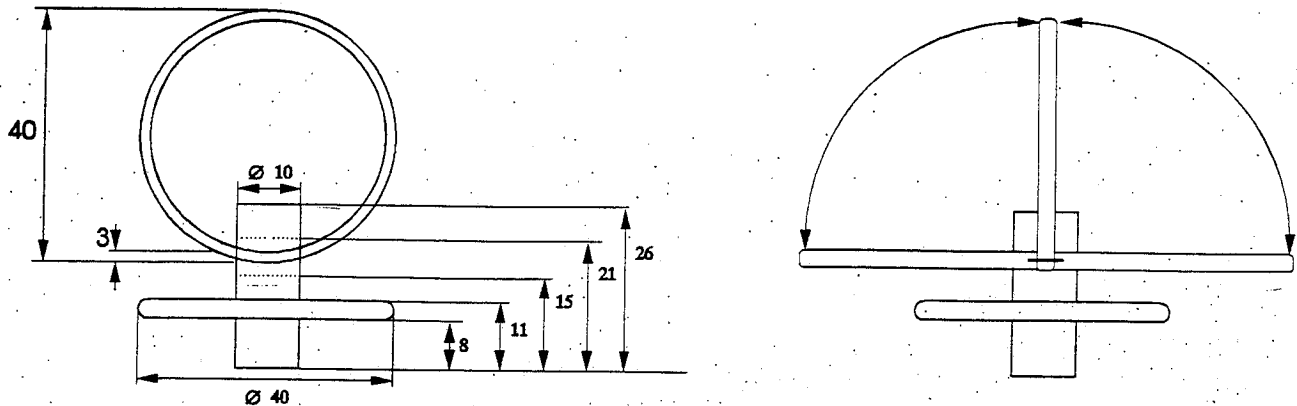


Figure 5: Test chain with loop



a) Test chain with disc

Dimensions in millimetres

b) Disc
Figure 6

4.11 cylinder, for assessment of small components, having main dimensions in accordance with figure 7.

Dimensions in millimetres

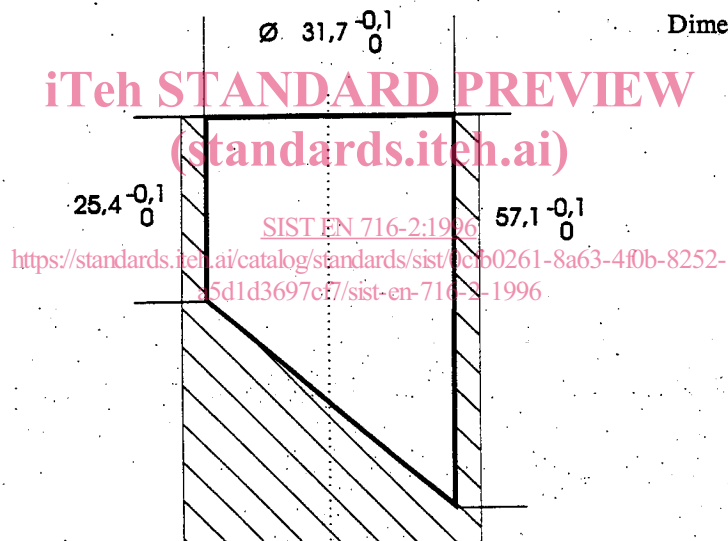


Figure 7: Cylinder

4.12 weight

A weight having a mass of 10kg and a cross-section of 100 mm x 30 mm.

5 Procedures

5.1 Assembly and inspection before test

Assemble the cot in accordance with the manufacturer's instructions. Prior to the test, inspect the cot visually for defects.

Tighten all knock-down fittings.