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

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

ICS 97.140; 97.190

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ICS

Will supersede EN 716-2:1995

English version

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

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

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

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

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Foreword

This document (prEN 716-2:2005) has been prepared by Technical Committee CEN/TC 207 "Furniture", the secretariat of which is held by UNI.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 716-2:1995.

1 Scope

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

It applies to cots and folding cots with an internal length between 900 mm and 1 400 mm.

2 Normative references

The following referenced documents are indispensable for the application 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.

prEN 716-1, *Children's cots and folding cots for domestic use — Part 1: Safety requirements.*

ISO 7619-2, *Rubber, vulcanized or thermoplastic — Determination of indentation hardness — Part 2: IRMD pocket meter method.*

ISO 2439:1997, *Flexible cellular polymeric materials — Determination of hardness (indentation technique).*

3 General test conditions

3.1 Preliminary preparation

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

The test unit shall be stored in indoor ambient conditions for at least one week immediately prior to testing. Any deviation from this procedure shall be stated in the test report.

Before testing, any fabrics intended to be removeable shall be cleaned or washed twice in accordance with the manufacturer's instructions.

The tests shall be carried out in indoor ambient conditions, but if during a test the atmospheric temperature is outside the range 15 °C to 25 °C, the maximum and/or minimum temperature shall be recorded in the test report.

The cot shall be tested as delivered. If of knock down type it shall be assembled according to the manufacturer's instructions supplied with the cot. If the cot can be assembled or combined in different ways, the most adverse combination shall be used for each test.

Knock-down fittings shall be tightened before testing. Further retightening shall not take place unless this is specifically required by the manufacturer.

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

3.2 Test sequence

The test shall be carried out in the order laid down in this standard on the same specimen.

3.3 Tolerances

Unless otherwise stated, the following tolerances apply:

— Forces: ± 5 % of the nominal force;

— Masses: ± 0,5 % of the nominal mass;

— Dimensions: ± 1,0 mm of the nominal dimension;

— Angles: ± 2° of the nominal angle;

— Positioning of loading pads: ± 5 mm;

— Duration of application of force: (2 ± 1) s for durability tests
(10 ± 2) s for static load tests

4 Test equipment

4.1 Test forces

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

4.2 Slide gauge

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

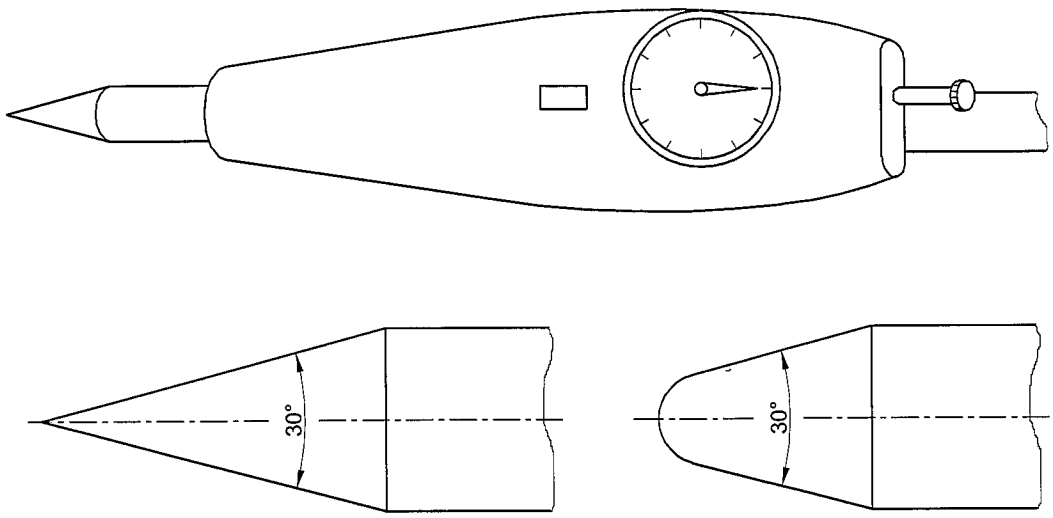


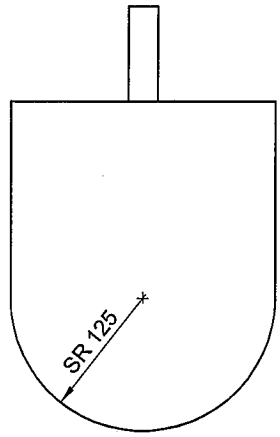
Figure 1 — Slide gauge

4.3 Bottom impacter

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

The impacter shall be guided so that it is kept upright and always falls on the impact point.

Dimensions in millimetres



Key
1 Spherical

Figure 2 — Bottom impacter

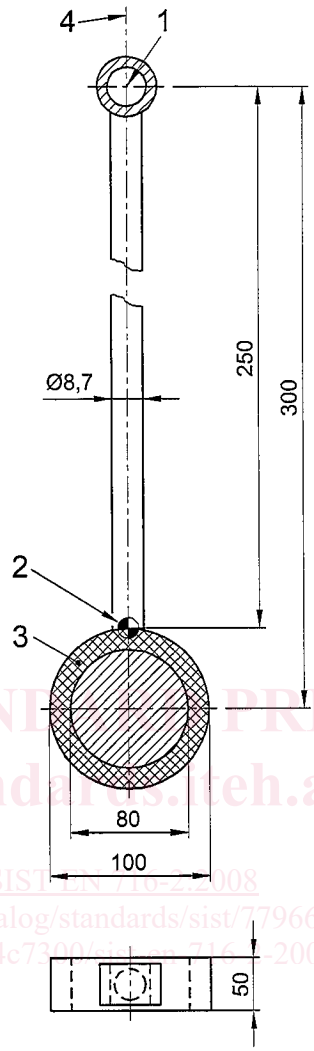
4.4 Test mattress

A polyether foam sheet with a thickness of 50 mm, a bulk density of (30 ± 2) kg/m^3 and an indentation hardness index of (170 ± 20) N in accordance with A 40 of ISO 2439:1997 and being at least 400 mm × 800 mm in area but not larger than the mattress base of the cot under test. The test mattress shall have a cotton cover with a mass per unit area of 100 g/m^2 to 120 g/m^2.

4.5 Side impacter

Pendulum with a cylindrical head made of steel (Figure 3). The head of the pendulum is surrounded by a 10 mm thick layer of rubber of hardness 76 to 78 IRHD in accordance with ISO 7619-2. The total mass shall be 2 kg.

Dimensions in millimetres



Key
1 Pivot point
2 Centre of gravity
3 Rubber

NOTE 8,7 mm is the approximate diameter of a solid steel rod.

Figure 3 — Side impacter

4.6 Loading pad

A rigid cylindrical object, 100 mm in diameter, having a smooth hard surface and rounded edge with radius of 12 mm.

4.7 Stops

Stops which prevent the article from sliding but not tilting, not higher than 12 mm except in cases where the design of the item necessitates the use of higher stops, in which case the lowest that will prevent the item from sliding shall be used.

4.8 Floor surface

Rigid, horizontal and flat surface.

4.9 Test chains

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

a) forming a loop in accordance with Figure 5; or

b) fixed at one end to a device in accordance with Figure 6 made of steel and with a total mass of (50 ± 1) g.

Dimensions in millimetres

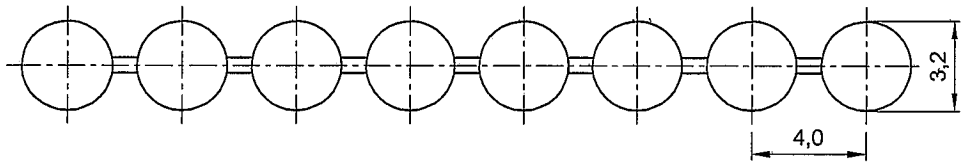
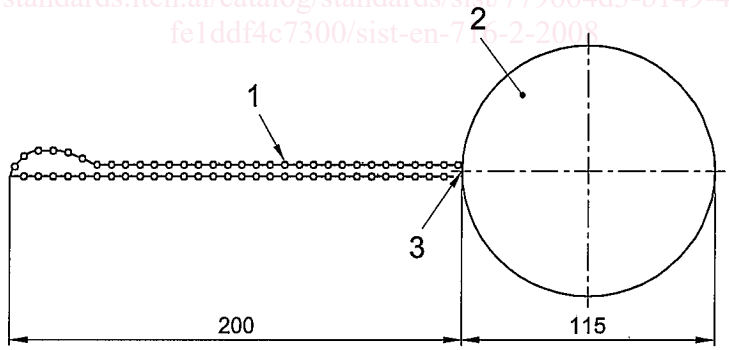


Figure 4 — Ball chain

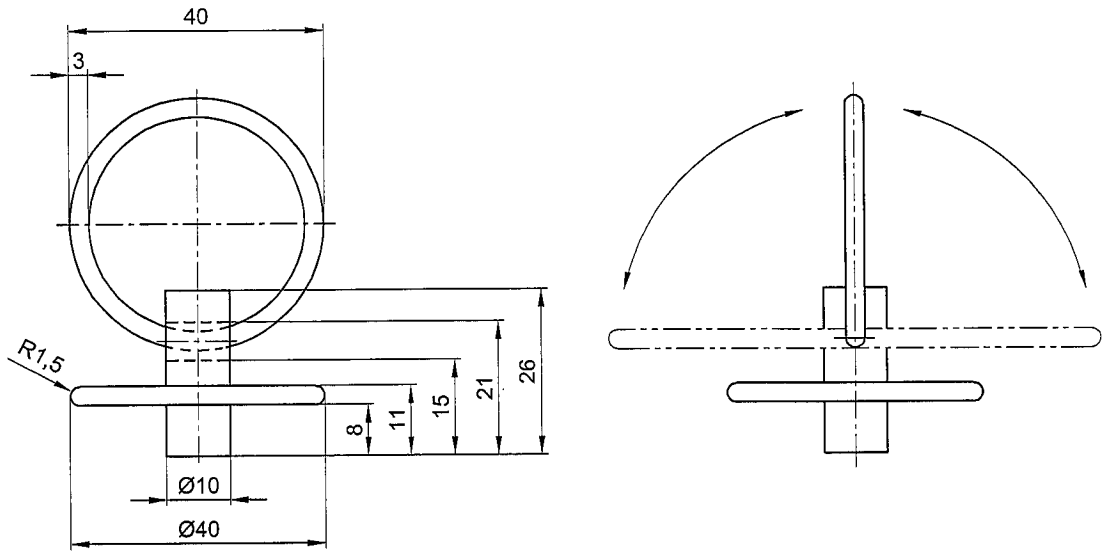
Dimensions in millimetres



Key
1 Ball chain
2 Weight, mass 2,5 kg
3 Fixing point

Figure 5 — Loop

Dimensions in millimetres



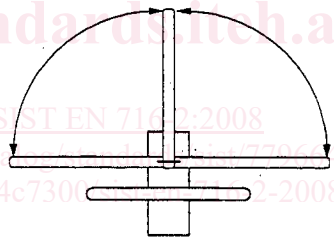


Figure 6 — Disc