

SVENSK STANDARD

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Möbler för hemmiljö – Småbarnssängar inklusive hopfällbara barnsängar – Del 2: Provningsmetoder

Furniture – Children’s cots and folding cots for domestic use – Part 2: Test methods

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Denna standard ersätter SS-EN 716-2:2008+A1:2013, utgåva 1.

The European Standard EN 716-2:2017 has the status of a Swedish Standard. This document contains the official version of EN 716-2:2017.

This standard supersedes the Swedish Standard SS-EN 716-2:2008+A1:2013, edition 1.

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Denna standard är framtagen av kommittén för Möbler, SIS/TK 391.

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EUROPEAN STANDARD

EN 716-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2017

ICS 97.140; 97.190

Supersedes EN 716-2:2008+A1:2013

English Version

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

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

This European Standard was approved by CEN on 21 February 2016.

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.

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: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 716-2:2017) has been prepared by Technical Committee CEN/TC 207 “Furniture”, the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by December 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 716-2:2008+A1:2013.

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

Compared to EN 716-2:2008+A1:2013, the following modifications have been made:

- introduction of the elements of the amendment;
- modification of the wrong references to clauses;
- clarification of 4.3, “Test mattress”;
- modification of 5.7.1, “Folding test of the mattress base and cot base”.

EN 716, *Furniture — Children's cots and folding cots for domestic use*, is composed with the following parts:

- *Part 1: Safety requirements*;
- *Part 2: Test methods*.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies test methods for assessing the safety of children's cots and folding cots for domestic use.

It applies to children's cots and folding cots with an internal length greater than 900 mm but not more than 1 400 mm.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN ISO 2439:2008, *Flexible cellular polymeric materials — Determination of hardness (indentation technique) (ISO 2439:2008)*

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

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 removable shall be cleaned or washed twice in accordance with the manufacturer's instructions. If no instructions are supplied, the manner of washing/cleaning shall be stated in the test report.

The tests shall be carried out under 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 the cot is a knock down type, it shall be assembled according to the manufacturer's instructions supplied with the cot. If the cot can be assembled, combined or adjusted in different ways, the most adverse combination shall be used for each test.

Knock-down fittings shall be tightened before testing. Further re-tightening 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 equipment

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

The equipment shall not inhibit the deformation of the cot during testing. It shall be able to move so that it can follow the deformation of the cot during testing, so that the loads are always applied at the specified point and in the specified direction.

All loading pads shall be capable of pivoting in relation to the direction of the applied force. The pivot point shall be as close as practically possible to the load surface.

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3.3 Application of forces

The forces in the static load tests shall be applied sufficiently slowly enough to ensure that negligible dynamic force is applied.

The forces in durability tests shall be applied at a rate to ensure that excessive heating does not occur.

3.4 Tolerances

Unless otherwise stated, the following tolerances apply:

- Forces: $\pm 5\%$ of the nominal force;
- Masses: $\pm 0,5\%$ of the nominal mass;
- Dimensions: $\pm 1,0$ mm of the nominal dimension;
- Angles: $\pm 2^\circ$ of the nominal angle;
- Positioning of loading pads: ± 5 mm;
- Duration of forces: (2 ± 1) s for durability tests
 (10 ± 2) s for static load tests, including tension, torque and bite tests.

The tests are described in terms of the application of forces. Masses can, however, be used. The relationship $10\text{ N} = 1\text{ kg}$ shall be used for this purpose.

3.5 Test sequence

The tests shall be carried out in the order laid down in this standard and on the same cot.

3.6 Prevention of movement during test

If the cot tends to slide or roll during the tests specified in Clause 5, it shall be restrained by stops (4.6).

4 Test apparatus

4.1 Measuring probes

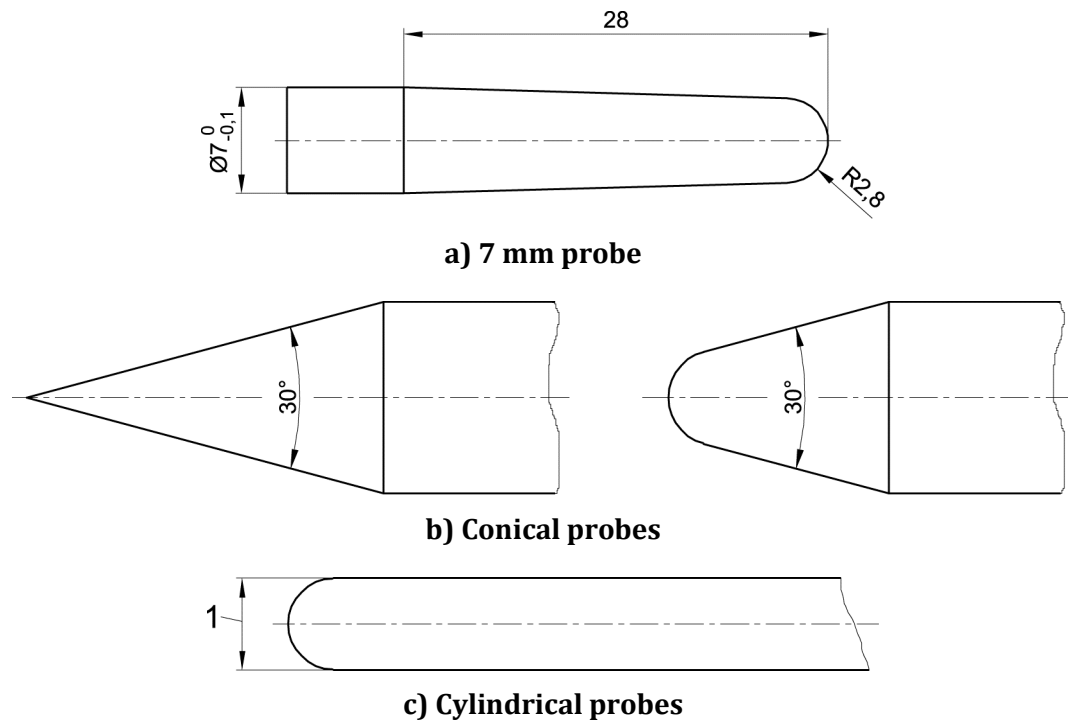
Probes made of plastics or other hard, smooth material mounted on a force-measuring device.

There shall be one probe with a diameter of 7 mm ($-0,1/+0$ mm), see Figure 1 a).

There shall be five probes with an angle of $30^\circ \pm 0,5^\circ$ with diameters of 25 mm ($0/+0,1$ mm), 45 mm ($0/+0,1$ mm), 60 mm ($0/+0,1$ mm), 65 mm ($0/+0,1$ mm) and 85 mm ($0/+0,1$ mm) with conical ends, see Figure 1 b).

There shall be four cylindrical probes with diameters of 5 mm ($-0,1/+0$ mm), 7 mm ($-0,1/+0$ mm), 12 mm ($0/+0,1$ mm) and 18 mm ($0/+0,1$ mm) with hemispherical ends, see Figure 1 c).

Dimensions in millimetres



Key

- 1 \varnothing 5 mm (-0,1/+0 mm), \varnothing 7 mm (-0,1/+0 mm), \varnothing 12 mm (0/+0,1 mm), \varnothing 18 mm (0/+0,1 mm)

Figure 1 — Measuring probes

4.2 Bottom impactor

An impactor with a total mass of 10 kg of hardwood or equivalent material with a hemispherical end and with dimensions in accordance with Figure 2.

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

Dimensions in millimetres

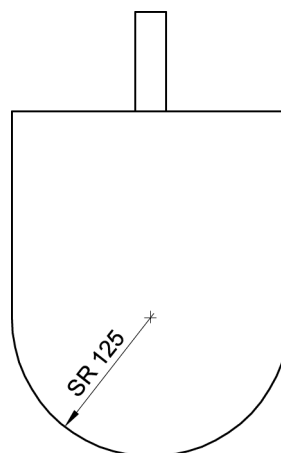


Figure 2 — Bottom impactor