

Juno ApS
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Journal./
report no. 1214179-01
456321
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Appendices 1
Initials pkc/hnr/lch

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Test Report

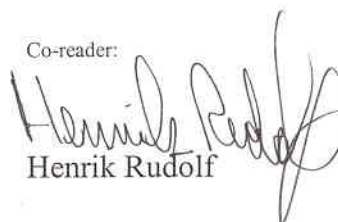
- Material:** Children's Cot Model "JUNO"
Lab. No. 080402
- Sampling:** The test material was sampled by client and received at the Danish Technological Institute week 8, 2004.
- Method:** EN 716:1995 part 1 and 2. Children's cots and folding cots for domestic use. Safety requirements.
EN 71-3:1994 Migration of Certain Elements.
DIN 53160 June 1974 and DIN V 53160 October 2002 Fastness to Sweat and Spittle.
- Period:** The testing was carried out from week 9 to week 22, 2004 .
- Result:** Children's cot model "JUNO" has been subjected to the above testing. According to the test results of appendix 1, the children's cot satisfied the requirements of EN 716:1995 part 1 and 2, the requirements of EN 71-3:1994 according to Report no. 6119 and 6120 and the requirements of DIN 53160 / DIN V 53160 according to Doc. no. 435201.
- Storage:** The sample is returned.
- Terms:** The test has been performed according to the rear side conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

2004-06-02, Danish Technological Institute, Wood Technology, Taastrup



Poul Køhl

Co-reader:



Henrik Rudolf

TEST RESULT

Fail Pass

Testing according to EN 716 part 1 and 2 - EN 71 part 3

3. Definitions

For the purposes of this standard, the following definition applies.
A folding cots as a cot which can be dismantled or folded for transportation.
This does not include items such as carrycots intended for transportation of infants.

4. Safety requirements

4.1 Materials

4.1.1

Wood, wood based material and material of vegetable origin shall be free from decay and insect attack.

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4.1.2 Materials and surfaces

The manufacturer/importer/retailer shall provide verification that materials and surfaces accessible to the child, i.e. all internal materials and surfaces, fulfil the requirements given in EN 71, part 3.

Report no.
6119 and
6120

4.1.3

Metal within the reach of the child shall either be made of corrosion-resistant materials or be protected against corrosion.

√

4.2 Construction

Exposed edges and protruding parts shall be chamfered and free of burrs or sharp edges. There shall be no open ended tubes.

√

4.2.2

Ledges on the inside of the cot that protrude more than 5 mm from the vertical plane shall be at least 600 mm above the bed base at its lowest position and from parts of the sides and ends on which the child can stand.

√

Reliefs in the internal surfaces of the cot deeper than 5 mm shall be at least 600 mm above the bed base at its lowest position and from parts of the sides and ends on which the child can stand. If ledges and reliefs are combined, the total depth shall not exceed 5 mm.

√

TEST RESULT

Fail	Pass
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Any fretwork cut outs shall be at least 600 mm above the bed base at its lowest position and from parts of the sides on which the child could stand.

No
fretwork

Transfers shall not be used on the internal surfaces of the cot accessible to the child.

4.2.3

If a 7 mm diameter plug gauge can pass into any hole, the depth of the hole shall not exceed 10 mm, unless the hole satisfies the requirements of 4.4.2 and 4.4.3.

√

4.2.4

When tested in accordance with 5.3.3 of EN 716-2 neither the test chain nor the disc shall be caught by any part accessible from inside the cot.

√

Outside parts accessible from inside are those which can be touched by the test chain when guided along the uppermost part of the side rails and the bed ends from inside the cot.

√

NOTE

The bed base is considered as not accessible because of being covered by the mattress.

4.2.5

Castors shall not be fitted except in the arrangement of either:

No castors

- I) two castors and two legs;
or
- II) four castors, of which at least two can be locked.

The locks shall prevent the castors from rolling and they shall not unlock when tested in accordance with clause 5.11 of EN 716-2.

4.2.6

Connecting screws, for direct fastening, e.g. self tapping screws shall not be used for the assembly of any component that is designed to be removed or loosened when dismantling the cot for purposes of transportation or storage.

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TEST RESULT

Fail	Pass
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4.2.7

If the bed base is adjustable, it shall not be possible to adjust it from a higher position to a lower position without the use of a tool.

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4.2.8

The mechanism used for controlling any drop side shall engage automatically when the drop side is raised and shall be so arranged that in order to lower the drop side it shall be necessary to unlock either:

- a) two fastening devices, separated by a distance of at least 850 mm, that have to be operated simultaneously; or
- b) a system that requires at least two separate but simultaneous actions operation on different principles; or
- c) a system that requires at least two consecutive actions operating on different principles, the operation of the second being dependent on the first having been carried out and sustained; or
- d) locking mechanisms so constructed that the residual force for operating them is at least 50 N when tested in accordance with 5.10 EN 716-2.

√

4.2.9 Folding and locking mechanisms

In order to prevent that a folding cot shall fold unintentionally, the folding system shall be equipped with a locking mechanism.

Not a folding cot

When tested in accordance with 5.10.1 of EN 716-2, the folding cot shall not fold.

When the folding cot is erected for use the locking mechanism of the folding system shall either:

- a) it shall not be possible to lift the base or a part of the base by the child when he is inside the bed; or
- b) require a minimum force of 50 N to release the mechanism before and after being tested in accordance with 5.10.2 of EN 716-2; or

TEST RESULT

Fail	Pass
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- c) require at least two consecutive actions to release the mechanism, the operation of the second being dependent on the first having been carried out and sustained; or
- d) require at least two separate but simultaneous actions, operating on different principles; or
- e) require two fastening devices, separated by a distance of at least 850 mm, that have to be operated simultaneously;

Other locking mechanisms than those for drop sides and folding mechanisms than have a residual force of at least 50 N for operating when tested in accordance with 5.10.2 of EN 716-2.

4.2.10

When tested in accordance with 5.4 of EN 716-2 any part that can be detached shall not fit wholly within the cylinder.

√

NOTE

Components are considered detachable if the child can grip them with its teeth or fingers.

4.2.11

Folding cots shall be designed and constructed in such a way as to prevent injury from scissoring, shearing or pinching when the product has been erected for use.

Not a folding cot

4.3 Bed base

4.3.1

When tested in accordance with 5.3.2 of EN 716-2, it shall not be possible for the 25 mm cone to pass through the aperture between the bed base and the sides, and between the bed base and the end.

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4.3.2

When tested in accordance with 5.3.2 of EN 716-2, it shall not be possible for the 60 mm cone to pass through the aperture between two adjacent slats of the bed base.

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TEST RESULT

Fail	Pass
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4.3.3

When the bed base is made of mesh it shall not be possible for the 85 mm cone as described in 5.3.2 of EN 716-2 to pass through the aperture of the mesh. The diameter of the wire shall be not less than 2 mm.

No mesh

4.3.4

When tested in accordance with 5.5 or EN 716-2, no element of the bed base shall break, nor shall the bed base become dislodged nor the cot display any structural damage.

√

4.4 Sides and ends

4.4.1

The internal height of the sides and ends shall be at least 600 mm, when tested in accordance with 5.3.1 of EN 716-2 and 5.8.1 of EN 716-2 under load and unloaded when the test is completed.

√

4.4.2

The effective diameter of holes and the distance between two vertical structural member, with the exception of guide rod and bed post shall be 60 mm (+5 mm/-15 mm), when tested in accordance with 5.3.2 of EN 716-2. The minimum dimension applies to testing without load and the maximum dimension applies to testing with load.

√

4.4.3

The distance between the drop side guide rod and bed post shall be between 0 mm and 7 mm or between 12 mm and 25 mm.

No drop
side guide
rod

4.4.4

When tested in accordance with 5.6 and 5.7 of EN 716-2, the slats or sides and ends shall neither break nor become detached from the fastening, nor shall the permanent deformation of any side slat exceed 2 mm. Fittings and fastening devices shall not be damaged or detached and shall continue to function normally.

√

4.4.5

When tested in accordance with 5.8.1 of EN 716-2, no fracture or deformation or any other damage shall occur.

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TEST RESULT

Fail	Pass
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4.4.6

In the highest position of the bed base the distance between its upper side and the upper edge of the cot side or end shall be at least 300 mm, measured from the lowest point of the side or end. Where the cot side is adjustable in height this requirement applies for its highest position.

√

4.4.7

When the sides or ends are made of mesh, it shall not be possible for the 7 mm cone as described in 5.3.2 of EN 716-2 to pass through the holes of the mesh.

No mesh

4.5 Frame

When tested in accordance with 5.8.2 of EN 716-2, the fittings and fastening devices shall not be damaged, loosened or detached and the cot shall continue to function normally.

√

4.6 Stability

When tested in accordance with 5.9 of EN 716-2, not more than one leg or corner of the cot shall lift from the floor.

√

5. Packaging

Any plastic covering used as packaging for cots, folding cots or mattresses if applicable that does not fulfil the requirements of EN 71-1, shall be conspicuously marked with the following warning:

√

'To avoid danger of suffocation, remove this plastic cover before using this article. This cover should then be destroyed or kept away from babies and children '.

6. Instructions for use

Instructions shall be provided in the official language(s) of the country where the cot is sold.

√

These instructions shall be headed *'IMPORTANT: RETAIN FOR FUTURE REFERENCE. READ CAREFULLY'*.

TEST RESULT

	Fail	Pass
a) A statement that folding cots are ready for use, only when the locking mechanisms of the folding system are engaged.		Not a folding cot
b) If the height of the bed base is adjustable, a statement that the lowest position is the safest and that the base should always be used in that position as soon as the baby is old enough to sit up. When adjustable sides are provided, the additional statement: 'If you leave the child unattended in the cot, always make sure that the drop side is in the highest position'.		√
c) Where detachable support rails are provided to support the bed base above its lowest position, a statement that it is essential to remove these rails before the cot is used in its lowest position.		No detachable supports
d) An assembly drawing, a list and description on all parts and tools required for assembly and a diagram of the bolts and other fastenings required.		√
e) A statement drawing the attention of the user to the risk of leaving anything in the cot which could provide a foothold or present a danger of suffocation or strangulation.		√
f) A statement that the thickness of the mattress chosen shall be such that the internal height (surface of the mattress to the upper edge of the bed frame) is at least 500 mm in the lowest position of the bed base and at least 200 mm in the highest position of the bed base.		Mattresses are included
g) A statement that all assembling fittings shall always be tightened properly. Screws shall not be loose because a child could pinch parts of the body, or clothing (e.g. strings, necklaces, ribbons for babies dummies, etc.) could get caught. There would be a danger of strangulation.		√
h) A recommendation concerning the size of the mattress when not sold with the cot.		Mattresses are included
i) Be aware of the risk of open fire and other sources of strong heat, such as electric bar fires, gas fires, etc... in the near vicinity of the cot.		√

TEST RESULT

Fail Pass

7. Marking

All cots for which claim for compliance with the requirements of this standard is made shall be permanently marked with the following information:

- the name, registered trade name or registered trade mark of either the manufacturer or distributor or retailer together with additional means of identifying the product. √
- the number and date of this standard. √
- a line or other marking on the cot side, at least 200 mm below its top, to indicate the level that the top of the mattress shall not exceed or an indication of the maximum allowed thickness of the mattress. √



Test Report

Resistance to Sweat and Spittle

Assignor Juno Aps
Attn.: Annette Sørensen
Ringstedvej 20, Gudmanstrup
DK-4520 Svinninge

Test material Juno Children's Cot (DTI lab. no. 080402)
MDF lacquered with:
Care Top 35 RAL9010

Sampling The test specimen was sampled by the assignor. The test was carried out on 2004.04.21.

Test method DIN V 53160-1: Bestimmung der Farblässigkeit von
Gebrauchsgegenständen. Teil 1: Prüfung mit Speichelsimulanz
DIN V 53160-2: Bestimmung der Farblässigkeit von
Gebrauchsgegenständen. Teil 1: Prüfung mit Schweißsimulanz

Test result Result of the testing:
Resistant to sweat
Resistant to spittle

Storage

The result only concerns the tested specimen.

The test material will be destroyed after 6 months, if nothing else has been agreed upon in writing.

Date/place: 2004.04.22, Danish Technological Institute, Timber, Taastrup

Signature:


Lis Winther Funch