INTERNATIONAL STANDARD

ISO 7175-1

Second edition
2019-01

Furniture — Children's cots and folding cots for domestic use —

Part 1: Safety requirements

Ameublement — Lits fixes et lits pliants pour enfants à usage domestique —

Partie 1: Exigences de sécurité

Reference number
ISO 7175-1:2019(E)

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword ..... **iv**
Introduction ..... **v**
1 Scope **1**
2 Normative references **1**
3 Terms and definitions **1**
4 Safety requirements **2**
4.1 General 2
4.2 Materials 2
4.2.1 Materials and surfaces 2
4.2.2 Flammability of textiles, coated textiles and plastics coverings 2
4.3 Initial stability 2
4.4 Construction 3
4.4.1 General 3
4.4.2 Holes, gaps and openings on the inside of the cot 3
4.4.3 Head entrapment on the exterior of the cot 4
4.4.4 Shear and squeeze points 4
4.4.5 Snag points 4
4.4.6 Locking systems 5
4.4.7 Cot base 5
4.4.8 Sides and ends 5
4.4.9 Cot rim 6
4.5 Final stability 6
4.6 Mattress size 7
5 Packaging **7**
6 Instructions for use **7**
7 Marking **8**
Annex A (informative) **Additional information on the background and rationale of cot** **10**
Bibliography **11**

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 136, *Furniture*.

This second edition cancels and replaces the first edition (ISO 7175-1:1997), which has been technically revised. The main changes compared to the previous edition are as follows:

— normative references have been added for flammability (ISO 8124-2:2014) and textile burning behaviour (EN 1103);

— more terms and definitions have been added.

A list of all parts in the ISO 7175 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document is based on EN 716-1:2017.

Furniture — Children's cots and folding cots for domestic use —

Part 1:
Safety requirements

1 Scope

This document specifies requirements for children's cots and folding cots for domestic use with an internal length of between 900 mm and 1 400 mm.

This document applies to cots that are fully assembled and ready for use.

NOTE It is possible that additional requirements be applied for cots that can be converted into other items (e.g. changing units, playpens).

This document does not apply to carry cots, cribs and cradles for which separate International Standards exist.

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.

ISO 7175-2:2019, *Children's cots and folding cots for domestic use — Part 2: Test methods*

ISO 8124-1, *Safety of toys — Part 1: Safety aspects related to mechanical and physical properties*

ISO 8124-2:2014, *Safety of toys — Part 2: Flammability*

ISO 8124-3, *Safety of toys — Part 3: Migration of certain elements*

EN 1103, *Textiles — Fabrics for apparel — Detailed procedure to determine the burning behaviour*

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:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
cot
bed for an infant or child which has a barrier surrounding the entire perimeter of the product during use

Note 1 to entry: Additional information on the background and rationale for this definition is given in Annex A.

3.2
folding cot
cot (3.1) which can be dismantled or folded without the use of a tool for transportation

Note 1 to entry: This does not include items such as carry cots intended for transportation of infants.

Note 2 to entry: In some countries, "folding cots" are also called "travel cots".

3.3
locking system
mechanism that consists of a locking device and one or more operating devices, which can deactivate the locking device, e.g. by pushing a button, pressing a lever or turning a knob

Note 1 to entry: A locking device is a device intended to maintain the cot or parts of it in its/their intended position.

3.4
shear and squeeze point
gap which can cause harm to parts of the body and which occurs when two *accessible parts* (3.5) move relative to each other

3.5
accessible part
inside of the *cot* (3.1) and exterior of the cot 300 mm from the upper part of the rim (when a child's hand can neither reach through sides nor ends) or whole cot, except for the underside of the cot base (when a child´s hand can reach through sides or ends)

3.6
mattress base
cot (3.1) base and mattress combined in one component

3.7
movable side
side that can be set in different positions, i.e. sliding side, drop side, folding side, etc.

4 Safety requirements

4.1 General

With the exception of the requirements specified in 4.2, the safety requirements in Clause 4 apply both before and after testing in accordance with ISO 7175-2.

4.2 Materials

4.2.1 Materials and surfaces

All accessible parts shall meet the relevant requirements from ISO 8124-3.

4.2.2 Flammability of textiles, coated textiles and plastics coverings

When tested in accordance with ISO 8124-2:2014, 5.4, the maximum rate spread of flame of textiles, coated textiles or plastic coverings shall be 30 mm/s.

When tested in accordance with EN 1103, there shall be no flash-effect.

4.3 Initial stability

When tested in accordance with ISO 7175-2:2019, 6.2, the cot shall not overturn.

4.4 Construction

4.4.1 General

4.4.1.1 Edges and protruding parts

Edges and protruding parts accessible during normal use shall be rounded or chamfered, and free of burrs and sharp edges.

4.4.1.2 Self-tapping screws

Self-tapping screws shall not be used to fasten any component that is designed to be removed or loosened when dismantling the cot for purposes of transportation or storage.

NOTE Self-tapping screws include wood screws, particleboard screws and the like.

4.4.1.3 Labels and decals

Glued labels and decals shall not be used on the internal surfaces of cot sides and ends unless they are below the level of the cot base or mattress base.

4.4.1.4 Small parts

When tested in accordance with ISO 7175-2:2019, 6.5, no accessible part that can be detached shall fit wholly within the small parts cylinder.

4.4.1.5 Castors and wheels

Castors/wheels shall not be fitted except in the following configuration, either:

a) two or more castors/wheels and at least two other support points, or,

b) at least four castors/wheels, of which at least two can be locked.

4.4.2 Holes, gaps and openings on the inside of the cot

4.4.2.1 General

With the exception of the holes, gaps and openings specified in 4.4.2.2, 4.4.2.3, 4.4.2.4, 4.4.2.5, 4.4.2.6, 4.4.4.2 and 4.4.4.3, all accessible holes, gaps and openings shall be less than 7 mm, between 12 mm and 25 mm, or between 45 mm and 65 mm when tested in accordance with ISO 7175-2:2019, 6.4.1.

4.4.2.2 Assembly holes

When tested in accordance with ISO 7175-2:2019, 6.4.1, there shall be no accessible holes between 7 mm diameter and 12 mm diameter, unless the depth is less than 10 mm.

4.4.2.3 Distance between cot base and sides and ends

When tested in accordance with ISO 7175-2:2019, 6.4.1, it shall not be possible for the 25 mm cone to pass between the cot base and the sides, and between the cot base and the ends.

4.4.2.4 Openings in mesh sides and ends

When tested in accordance with ISO 7175-2:2019, 6.4.1, it shall not be possible for the 7 mm cone as described in ISO 7175-2:2019, 5.1, to pass through the holes of the mesh.