

UL 2275

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Full-Size Baby Cribs

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UL Standard for Safety for Full-Size Baby Cribs, UL 2275

First Edition, Dated March 6, 2001

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An effective date included as a note immediately following certain requirements is one established by Underwriters Laboratories Inc.

Revisions of this Standard will be made by issuing revised or additional pages bearing their date of issue. A UL Standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest set of revised requirements.

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FOREWORD

A. This Standard contains basic requirements for products covered by Underwriters Laboratories Inc. (UL) under its Follow-Up Service for this category within the limitations given below and in the Scope section of this Standard. These requirements are based upon sound engineering principles, research, records of tests and field experience, and an appreciation of the problems of manufacture, installation, and use derived from consultation with and information obtained from manufacturers, users, inspection authorities, and others having specialized experience. They are subject to revision as further experience and investigation may show is necessary or desirable.

B. The observance of the requirements of this Standard by a manufacturer is one of the conditions of the continued coverage of the manufacturer's product.

C. A product which complies with the text of this Standard will not necessarily be judged to comply with the Standard if, when examined and tested, it is found to have other features which impair the level of safety contemplated by these requirements.

D. A product employing materials or having forms of construction which conflict with specific requirements of the Standard cannot be judged to comply with the Standard. A product employing materials or having forms of construction not addressed by this Standard may be examined and tested according to the intent of the requirements and, if found to meet the intent of this Standard, may be judged to comply with the Standard.

E. UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. The opinions and findings of UL represent its professional judgment given with due consideration to the necessary limitations of practical operation and state of the art at the time the Standard is processed. UL shall not be responsible to anyone for the use of or reliance upon this Standard by anyone. UL shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Standard.

F. Many tests required by the Standards of UL are inherently hazardous and adequate safeguards for personnel and property shall be employed in conducting such tests.

INTRODUCTION

1 Scope

1.1 These requirements cover single-occupancy, non-convertible, full-size baby cribs for use by infants weighing no more than 15.9 kg (35 lbs.) and/or are no more than 890 mm (35 inches) in height. These products are intended for household use.

1.2 These requirements cover dimensions, construction, testing for structural integrity, markings, and instructions intended to reduce the risk of injury to an infant within a crib due to poor construction and structural defects, as well as, resulting from misuse of materials and placement of crib attachments.

1.3 These requirements do not cover non-full-size baby cribs, mesh, net, or screen cribs, non-rigidly constructed baby cribs, cradles (both rocker and pendulum types), car beds, baby baskets, and bassinets (also known as junior cribs), or any other accessories intended for use with full-size baby cribs (such as bedding and bumper pads).

1.4 These requirements also do not cover electric toys or devices intended as crib attachments. A toy intended to be used with a crib shall comply with Standard Consumer Safety Specification on Toy Safety, ASTM F963.

1.5 Mattresses for use with cribs shall comply with the requirements of the Standard for Fire Test of Mattresses with Bedclothes Using a Furniture Calorimeter, UL 2060.

1.6 These requirements are substantially in accordance with the requirements for full-size cribs contained in the U.S. Consumer Product Safety Commission Code of Federal Regulations, 16 CFR Part 1508, Standard for Specification for Full-Size Baby Crib, ASTM F1169-99, and Consumer Safety Specification for Full-Size and Non-Full-Size Baby Crib Corner Post Extensions, ASTM F966-96.

1.7 A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements in this standard, and that involves a risk of fire or of electric shock or injury to persons shall be evaluated using appropriate additional component and end-product requirements to maintain the level of safety as originally anticipated by the intent of this standard. A product whose features, characteristics, components, materials, or systems conflict with specific requirements or provisions of this standard does not comply with this standard. Revision of requirements shall be proposed and adopted in conformance with the methods employed for development, revision, and implementation of this standard.

2 Components

2.1 Except as indicated in 2.2, a component of a product covered by this Standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components used in the products covered by this Standard.

2.2 A component is not required to comply with a specific requirement that:

- a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or
- b) Is superseded by a requirement in this standard.

2.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

4 Undated References

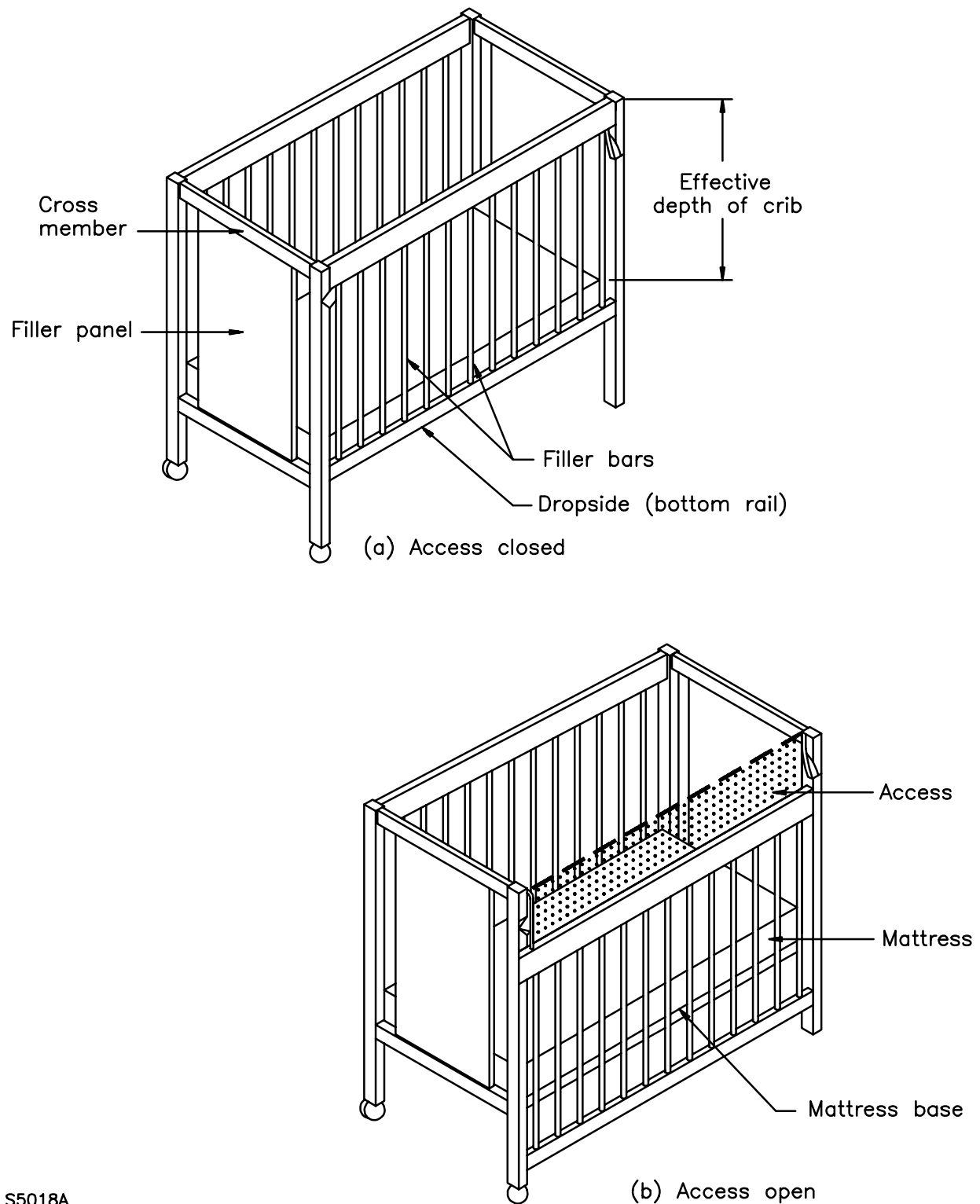
4.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

5 Glossary

5.1 For the purpose of this Standard the following definitions apply.

5.2 ACCESS – Opening obtained by operating a part or parts of a crib in order to facilitate accessibility to the inside of the crib. See Figure 5.1.

Figure 5.1
Example of a crib



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5.3 ACCESS FASTENING DEVICE – The locking/latching apparatus used to secure (in a closed position) the mechanisms which allow access to the crib.

5.4 DROPSIDE – A component of a crib, so constructed and incorporated into the crib that it is capable of sliding up and down in order to close off or provide access.

5.5 DROPSIDE MECHANISM – A system of guide-rods, slides or other devices including stops, which allows the dropside to slide up and down.

5.6 FILLER BARS OR FILLER PANELS – The vertical bars or panels in the end or side frames of the crib.

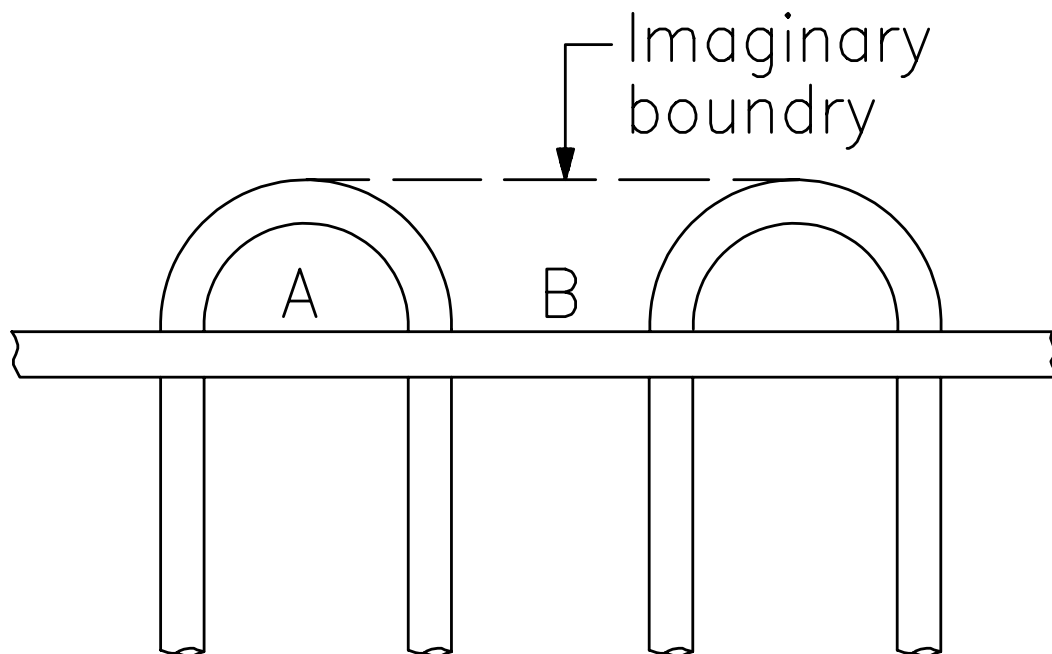
5.7 FOLDING SIDE – A component of a crib, so constructed and incorporated into the crib that it is capable of being folded up and out to close off or provide access.

5.8 FULL-SIZE BABY CRIB – A bed that:

- a) Is designed to provide single occupancy sleeping accommodations for an infant;
- b) Is intended for use in the home; and
- c) Has interior dimensions between 726 mm (28.6 inches) and 694 mm (27.4 inches) wide and between 1346 mm (53 inches) and 1314 mm (51.73 inches) long. See Section 7, Dimensions.

5.9 GAP – An opening bounded either by solid components of the crib (see A in Figure 5.2) or by solid components of the crib and a straight imaginary boundary joining solid components in such a manner as to result in a maximum bounded area (see B in Figure 5.2).

Figure 5.2
Examples of gaps



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5.10 INFANT – An infant in the first period of life not exceeding 890 mm (35 inches) in height and/or 15.9 kg (35 lbs.) in weight.

5.11 MATTRESS SUPPORT – The surface on which the crib mattress is supported.

CONSTRUCTION

6 General

6.1 A crib shall be designed and constructed in a manner that eliminates any hardware accessible to an infant within the crib from the possibility of presenting a mechanical hazard through pinching, bruising, lacerating, crushing, breaking, amputating, or otherwise injuring portions of the human body when the crib is in normal use or when subjected to foreseeable damage or abuse.

6.2 All components of the crib shall be fixed either by permanent means or by means requiring the use of a tool to enable partial or total disassembly.

6.3 In wooden cribs, dowels, nails, and screws shall penetrate all the members of the joint. The finished joint shall be such that no part of any dowel, screw, nail, or staple shall be exposed above the surface of any joining member. Nail heads shall be punched below the surface.

6.4 The access fastening device shall be designed so that an infant is not capable of opening the device. This requirement shall be complied with by at least one of the following ways:

- a) Locking or latching devices used to secure dropside rails shall require a minimum force of 45 N (10 lbf.) to activate the release mechanism;
- b) Having two fastening devices designed so that simultaneous operations are required at each end of the crib to release the devices;
- c) Having a double-action device requiring two distinct actions to release;
- d) For a dropside crib, having to lift the dropside before the fastening devices are capable of being released; and
- e) Positioning the device so that it is inaccessible to the infant in the crib.

6.5 The guides of a dropside mechanism shall comply with the following:

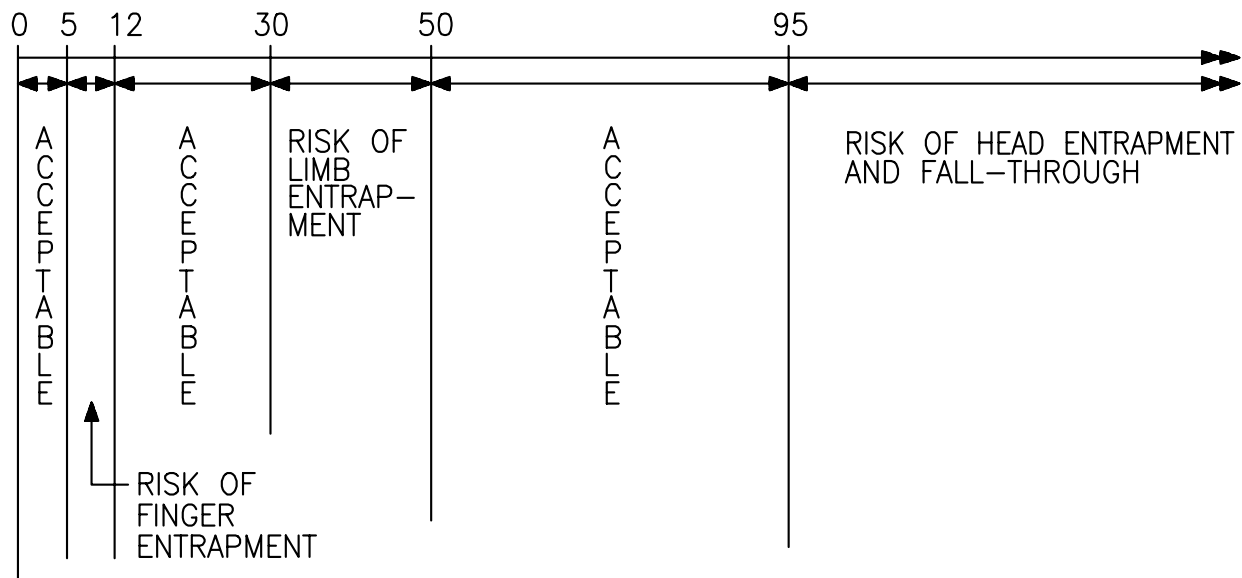
- a) The guides shall be designed and fastened to enable the dropside to move up and down in a substantially vertical plane; and
- b) Each guide shall be fastened firmly to the crib frame at both ends, and at an intermediate level near to the mattress support.

To prevent its withdrawal, a guide rod which passes through a bracket is to be fitted with a lock nut or other retaining device for it to be identified as being firmly fastened to the bracket.

6.6 The bottom surface of the bottom rail on the sides and the ends of the crib shall not be higher than the upper surface of the mattress support.

6.7 All holes or openings that are accessible to an infant within a crib and allow the passage of a 5 mm (0.20 inch) diameter rod to a depth of 10 mm (0.39 inch) or more shall also admit a 12 mm (0.47 inch) diameter rod. See Figure 6.1.

Figure 6.1
Linear representation of hazardous openings



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DIMENSIONS IN MILLIMETRES

6.8 Protrusions shall comply with the following requirements:

a) To ensure that the inside of a crib is free from protrusions which are capable of injuring an infant (especially its head) in the event that the infant fell or rolled onto the protrusion, there shall be no protrusions within a crib that are accessible to a 95 mm (3.7 inches) spherical probe. The spherical probe shall be made of suitably rigid material and capable of being mounted on a rod of diameter not greater than 15 mm (0.59 inch) for the purpose of applying the specified force.

Exception: Dome nuts less than 5 mm (0.20 inch) in height are not considered to be protrusions.

b) To ensure that other protrusions of a crib do not present a means onto which the infant's clothing catches and thereby presents a possible risk of strangulation, protrusions [other than those specified in (a) above] shall be such that the height of the protrusion is not more than 1.5 mm (0.06 inch).

6.9 There shall be no sharp edges or sharp points within and outside the crib that are accessible to the infant. All edges of the crib accessible to the infant shall comply with the Standard for the Test for Sharpness of Edges on Equipment, UL 1439.