



Designation: F 1169 – 99

Standard Specification for Full-Size Baby Crib¹

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INTRODUCTION

This consumer safety specification addresses crib accidents that were identified by the U.S. Consumer Product Safety Commission (CPSC).

For the period Jan. 1, 1980 through Dec. 31, 1983, 167 incidents concerning failure of crib hardware and other structural components of cribs were reported to the CPSC. These incidents accounted for 34 deaths, 22 potentially fatal entrapments, 7 medically treated injuries, 47 minor injuries such as bumps and bruises and 57 incidents without injury. Additional incidents of a similar nature have been reported subsequent to this period.

In response to the accident data collected by the CPSC, this consumer safety specification attempts to minimize the risk of injury or death due to: failure of mattress support hardware, failure of glued or bolted connections, dropside latch failure, and dislodgment of teething rails. This safety specification also addresses incidents associated with poor maintenance or assembly by means of requirements for the contents of instructional literature that must accompany a crib.

1. Scope

1.1 This consumer safety specification establishes testing requirements for structural integrity of cribs. It also provides requirements for labelling and instructional material.

1.2 The issue of mattress support system is addressed to reduce or eliminate the likelihood of the support system becoming inadvertently disengaged.

1.3 No crib produced after the approval date of this consumer safety specification shall, either by label or other means, indicate compliance with this specification unless it conforms to all requirements contained herein.

1.4 The following safety hazards caveat pertains only to the test methods portion, Sections 5-9, of this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Document

2.1 Federal Standard:

CFR 1508 Requirements for Full-Size Baby Cribs²

¹ This specification is under the jurisdiction of ASTM Committee F-15 on Consumer Products and is the direct responsibility of Subcommittee F 15.18 Cribs, Toddler Beds, and Play Yards.

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² Available from the Consumer Product Safety Commission, Washington, DC 20207.

3. Calibration and Standardization

3.1 All testing shall be conducted on a concrete floor which may be covered with 1/8-in. (3-mm) thick vinyl floor covering.

3.2 The crib shall be completely assembled, unless otherwise noted, in accordance with the manufacturer's instructions.

4. Conditioning

4.1 No testing shall be conducted within 48 h of gluing.

4.2 The item to be tested shall be in a room with ambient temperature of $73.4 \pm 9^\circ\text{F}$ ($23 \pm 5^\circ\text{C}$) for at least 24 h prior to testing. Testing shall then be conducted within this temperature range.

TEST METHODS

5. Vertical Impact Testing

5.1 *General*—This test consists of dropping a specified weight repeatedly onto a foam pad supported by the crib mattress support system.

5.2 *Significance and Use*—This test assists in evaluating the structural integrity of the crib assembly. Glue joints and other means of fastening are subjected to abusive loads and stresses.

5.3 Apparatus for Vertical Impact Testing:

5.3.1 The weight used in conducting this test shall have a circular contact area of 1 ft² (930 cm²) (13.5-in. diameter) (343 mm) with a 0.125-in. (3-mm) radius to ease the edge between the circular contact surface and the vertical cylindrical surface.

5.3.1.1 The total weight shall be 45 lb (20.4 kg).

5.3.1.2 The weight shall pivot freely.

5.3.2 A 4-in. (100-mm) thick open cell polyurethane foam