

Designation: F3118 – 17a

Standard Consumer Safety Specification for Infant Inclined Sleep Products¹

This standard is issued under the fixed designation F3118; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

INTRODUCTION

This consumer safety specification addresses incidents associated with infant inclined sleep products identified by the U.S. Consumer Product Safety Commission (CPSC).

In response to incident data compiled by the CPSC, this consumer safety specification attempts to minimize the following: (1) fall hazards, (2) positional asphyxiation, and (3) obstruction of nose and mouth by bedding. This consumer safety specification is intended to cover normal use and reasonably foreseeable misuse or abuse of inclined sleep products. This specification does not cover inclined sleep products that are blatantly misused or used in a careless manner that disregards the safety instructions and warnings provided with each inclined sleep product.

This consumer safety specification is written within the current state-of-the-art of infant sleep product technology and will be updated whenever substantive information becomes available that necessitates additional requirements or justifies the revision of existing requirements.

1. Scope

1.1 This consumer safety specification establishes safety performance requirements, test methods, and labeling requirements to minimize the hazards to infants presented by infant inclined sleep products as identified in the introduction.

1.2 This consumer safety specification is intended to minimize the risk of injuries to infants resulting from normal use and reasonably foreseeable misuse or abuse of infant inclined sleep products.

1.3 This consumer safety performance specification covers a free standing product with an inclined sleep surface primarily intended and marketed to provide sleeping accommodations for an infant up to 5 months old or when the infant begins to roll over or pull up on sides, whichever comes first. It also covers a smaller product intended for newborns up to 3 months old or when newborn begins to wiggle out of position or turn over in the product or weighs more than 15 lb (6.8 kg), whichever comes first. It also covers infant and newborn inclined sleep product accessories, which are attached to, or supported by, another product with the same age or abilities, or both, as the free standing products. If the inclined sleep product can be converted into a product for which another ASTM standard consumer safety specification exists, the product shall meet the applicable requirements of that standard. For example, an inclined sleep product that can have the recline angle adjusted below 10° shall also comply with the applicable requirements of Consumer Safety Specification F2194.

1.4 No infant inclined sleep product 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.

1.5 The following precautionary caveat pertains only to the test method portion, Section 7, of this consumer safety 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.

1.6 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the

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¹This specification is under the jurisdiction of ASTM Committee F15 on Consumer Products and is the direct responsibility of Subcommittee F15.18 on Cribs, Toddler Beds, Play Yards, Bassinets, Cradles and Changing Tables.

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FIG. 1 CAMI Infant Dummy, Mark II (17.5 lb, 8.0 kg)



FIG. 2 CAMI Newborn Dummy (7.5 lb., 3.4 kg)

Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 *ASTM Standards*.² D3359 Test Methods for Rating Adhesion by Tape Test

F963 Consumer Safety Specification for Toy SafetyF2194 Consumer Safety Specification for Bassinets and Cradles

2.2 Federal Standards:³

- 16 CFR Part 1303 Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead-Containing Paint
- 16 CFR Part 1500 Hazardous Substances Act Regulations including sections:

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, http:// www.access.gpo.gov.

- 1500.48 Technical Requirements for Determining a Sharp Point in Toys or Other Articles Intended for Use by Children Under Eight Years of Age
- 1500.49 Technical Requirements for Determining a Sharp Metal or Glass Edge in Toys or Other Articles Intended for Use by Children Under Eight Years of Age
- **1500.50** Test Method for Simulating Use and Abuse of Toys and Other Articles Intended for Use by Children
- 1500.51 Test Methods for Simulating Use and Abuse of Toys and Other Articles Intended for Use by Children 18 Months of Age or Less
- 16 CFR Part 1501 Method for Identifying Toys and Other Articles Intended for Use by Children Under Three Years of Age Which Present Choking, Aspiration, or Ingestion Hazards Because of Small Parts

2.3 ANSI Standards:⁴

ANSI Z535.4 Product Safety Signs and Labels

ANSI Z535.6 Product Safety Information in Product Manuals, Instructions, and Other Collateral Materials

2.4 Other References:

CAMI Infant Dummy Mark II (see Fig. 1)

CAMI Newborn Dummy (see Fig. 2)

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 accessory inclined sleep product, n—an inclined sleep product that is intended to provide sleeping accommodations for infants or newborns and attaches to or is supported by another product.

3.1.2 compact inclined sleep product, n—a free standing infant or newborn inclined sleep product having a distance of 6.0 in. (152 mm) or less between the underside of the lowest point on the seat bottom and the support surface (floor).

3.1.3 *conspicuous, adj*—visible, when the unit is in a manufacturer's recommended use position, to a person standing near the unit at any one position around the infant inclined sleep products but not necessarily visible from all positions.

3.1.4 *dynamic load*, *n*—application of impulsive force through free fall of a weight.

3.1.5 *fabric*, *n*—any woven, knit, coated, laminated, extruded or calendared flexible material that is intended to be sewn, welded, heat sealed or glued together as an assembly.

3.1.6 *head containment area, n*—the upper part of the occupant area which provides a physical border to contain the infants head.

3.1.7 *infant inclined sleep product, n*—a freestanding product, intended to provide a sleeping accommodations for an infant up to approximately 5 months of age, that is generally supported by a stationary or rocker base with one or more inclined sleep surface positions for the seat back that are greater than 10° and do not exceed 30° from the horizontal.

3.1.7.1 *Discussion*—Products with all seat back inclined sleep surface positions less than or equal to 10° from the

horizontal, while in the rest (non-rocking) position, are not covered by this specification.

3.1.8 *manufacturer's recommended use position*, *n*—any position that is presented as a normal, allowable, or acceptable configuration for the use of the product by the manufacturer in any descriptive or instructional literature.

3.1.8.1 *Discussion*—This specifically excludes positions that the manufacturer shows in a like manner in its literature to be unacceptable, unsafe, or not recommended.

3.1.9 *mesh*, *n*—woven fabric in which the warp or filling yarns are interlaced, knitted fabric in which the wales and courses yarns are interlocked, or any other type of fabric that may be developed that provides openings therein.

3.1.10 *newborn inclined sleep product, n*—a free standing product, intended to provide sleeping accommodations for a newborn up to approximately 3 months of age, that is supported by a stationary or rocker base with one or more inclined sleep surface positions for the seat back that are greater than 10° and do not exceed 30° from the horizontal and whose seat back length, measured from the bight, is not greater than 17 in. (432 mm).

3.1.11 *non-paper label*, *n*—any label material (such as plastic or metal) which either will not tear without the aid of tools or tears leaving a sharply defined edge.

3.1.12 *occupant*, *n*—that individual who is in a product that is set up in one of the manufacturer's recommended use positions.

3.1.13 *paper label*, *n*—any label material which tears without the aid of tools and leaves a fibrous edge.

3.1.14 seat bight line, n—the intersection of the seat back surface with the seat bottom surface (see Fig. 3).

3.1.15 *static load, n*—a vertically downward force applied by a calibrated force gage or by dead weights.

3.1.16 *structural component*, *n*—any load bearing member or part of the product that supports the weight or portion of the weight of the occupant.

4. Calibration and Standardization

4.1 All testing shall be conducted on a concrete floor that may be covered with $\frac{1}{8}$ in. (3 mm) thick vinyl floor covering, unless test instructs differently.

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

4.3 No testing shall be conducted within 48 h of manufacturing.

4.4 The product to be tested shall be in a room with an ambient temperature of $73^{\circ} \pm 9^{\circ}$ F (23 $\pm 5^{\circ}$ C) for at least 1 h prior to testing. Testing then shall be conducted within this temperature range.

4.5 All testing required by this specification shall be conducted on the same unit.

5. General Requirements

5.1 *Lead in Paints*—The paint and surface coating shall conform with 16 CFR 1303.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, http://www.ansi.org.