

Designation: F 406 - 05

Standard Consumer Safety Specification for Non-Full-Size Baby Cribs/Play Yards¹

This standard is issued under the fixed designation F 406; 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 non-full-size cribs/play yards that were identified by the U.S. Consumer Product Safety Commission (CPSC).

Incidents identified by the CPSC and addressed in this standard include asphyxiation due to entrapment in mesh drop side units left with a side down, strangulation by entanglement on protruding hardware, strangulation by button entrapment in mesh openings, strangulation due to failure of the center hinge on a top rail, collapse or failure of the locking devices, collapse of the floor or sides, and choking on vinyl bitten from the top rail. This specification also addresses wooden non-full-size crib injuries or deaths due to entanglement on corner post extensions, dislodgment of slats resulting from breakage or failure of glue joints, collapse of mattress support, detachment of screws, dislodgement of teething rails, and entanglement on cords or strings.

This specification is not intended to cover non-full-size cribs/play yards that are either blatantly misused or abused. This specification is written within current state-of-the-art of non-full-size crib/play yard technology and is intended to be updated if substantive information becomes available that necessitates additional requirements or justifies revision of existing requirements.

1. Scope

1.1 This consumer safety specification establishes testing requirements for structural integrity and performance requirements for non-full-size cribs/play yards, both rigid sided and mesh/fabric assemblies. It also provides requirements for labeling and instructional material. The term unit or product will refer to a non-full-size crib/play yard.

1.2 This specification covers a framed enclosure with a floor made for the purpose of providing sleeping and playing accommodations for a child who cannot climb out and is less than 35 in. (890 mm) in height. It also covers bassinet, changing table, or similar attachments to a non-full size crib/play yard. These attachments shall also comply with the applicable requirements of ASTM standards addressing those attachments. For example, a changing table that attaches to a play yard shall also comply with the applicable requirements in Specification F 2388.

1.3 No 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 applicable requirements contained herein, before and after all testing.

- 1.4 The values stated in inch-pound units are to be regarded as the standard. The SI units given in parentheses are for information only.
- 1.5 The following safety hazards caveat pertains only to the test method portion, Section 8, 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.

Note 1—This consumer safety specification includes the following sections:

Title	Section
Scope	1
Referenced Documents	2
ASTM Standards	2.1
Federal Regulations	2.2
Terminology	3
Definitions of Terms Specific to This Standard	3.1
Conspicuous	3.1.2
Cord	3.1.3
Corner Post	3.1.4
Dropside/Dropgate	3.1.5
Dynamic Load	3.1.6
Fabric	3.1.7

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Sharp Metal or Glass Edge in Toys or Other Articles Intended for Use By Children Under Eight Years of Age⁴ 1500.50-.52 Test Methods for Simulating Use and Abuse of Toys and Other Articles Intended for Use By Children⁴

16 CFR 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 Parts⁴

16 CFR 1509 Requirements for Non-Full-Size Baby Cribs⁴

3. Terminology

- 3.1 Definitions of Terms Specific to This Standard:
- 3.1.1 attachment, n—accessory with a rigid frame such as a bassinet or changing table that attaches to a non-full size crib/play yard and that, because of its structure, location, or movement, may expose a non-full size crib/play yard occupant to an opening presenting an entrapment hazard. It does not include: (1) items that hang outside the occupant areas, such as organizers and storage bags, (2) canopies that have no rigid frame members running alongside any top rail, and (3) accessories that attach only to another attachment and not directly to the non-full size crib/play yard.
- 3.1.1.1 *Discussion*—Rationale: Definition applies only to accessories that attach to non-full size crib/play yard, not accessories that attach to bassinet or changing table. This would exclude a changing table that attaches only to a bassinet, since a bassinet occupant is not able to push up on hands and knees, and therefore is not at risk from an entrapment hazard.
- 3.1.2 conspicuous, adj—Describes a label that is 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 unit but not necessarily visible from all positions.
- 3.1.3 cord, n—length of slender flexible material including monofilaments, rope, woven and twisted cord, plastic and textile tapes, ribbon, and those materials commonly called string.
- 3.1.4 *corner post*, *n*—vertical post located at the corner of a product.
- 3.1.5 *dropside/dropgate*, *n*—side that is intended to slide or pivot with respect to the frame when the product is in the manufacturer's recommended use position to provide easier access to the occupant.
- 3.1.6 *dynamic load*, *n*—application of an impulsive force through free fall of a weight.
- 3.1.7 *fabric*, *n*—any woven, knit, coated, laminated, extruded or calendered flexible material that is intended to be sewn, welded, heat sealed, or glued together as an assembly.
- 3.1.8 *foldable side or end*, *n*—side or end panel intended to be stationary with respect to the frame when a product is in the manufacturer's recommended use position, but that folds to allow for carrying or storage of the product.
- 3.1.9 manufacturer's recommended use position, n—Any position that is presented by the manufacturer in any descriptive or instructional literature as a normal, allowable, or acceptable configuration for use of the product. This specifically excludes positions that the manufacturer shows in a like manner in its literature to be unacceptable, unsafe, or not recommended.

- 3.1.10 *mattress*, *n*—pad with a fabric, vinyl, or other material case filled with resilient material (such as cotton, foam, fiberfill, etc.) used as or on the floor of the unit.
- 3.1.11 *mesh*, *n*—mesh may be either a woven fabric in which the warp and filling yarns are interlaced, a 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.
- 3.1.12 *mesh/fabric unit*, *n*—unit constructed with a rigid frame assembly and a fabric or mesh assembly, or both, used to function as sides, ends, or floor, or a combination thereof.
- 3.1.13 *nonpaper label*, *n*—any label material (such as plastic or metal) that either will not tear without the aid of tools or tears leaving a sharply defined edge or labels made from fabric.
- 3.1.14 *occupant*, *n*—that individual who is in a product that is set up in one of the manufacturer's recommended use positions.
- 3.1.15 *paper label*, *n*—any label material that tears without the aid of tools and leaves a fibrous edge.
- 3.1.16 *protrusion*, *n*—projection on the unit over which an item worn by a child may become hooked.
- 3.1.17 *rigid sided product*, *n*—product with sides/ends constructed of rigid materials like wood, plastic, or metal generally configured as a horizontal rail/vertical slat assembly.
- 3.1.18 *seam*, *n*—means of joining fabric components such as sewing, welding, heat sealing, or gluing.
- 3.1.19 *static load*, *n*—vertically downward force applied by a calibrated force gage or dead weights.
- 3.1.20 *stationary side*, *n*—side or end panel that is not intended to fold, slide, or move with respect to the frame when the product is in the manufacturer's recommended use position.
- 3.1.21 *structural failure*, *n*—damage to a component(s) or assembly resulting in partial separation (greater than 0.04 in. (1 mm) over original configuration), or complete separation of the component(s) or assembly.

4. Calibration and Standardization

- 4.1 All testing shall be conducted on a concrete floor that may be covered with ½-in. (3-mm) thick vinyl flooring cover, unless test instructs differently.
- 4.2 The unit 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 preconditioned in a room with ambient temperature of 73 ± 9 °F (23 ± 5 °C) for at least 1 h prior to testing. Testing shall then 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 Corner Posts:
- 5.1.1 No corner post assembly shall extend more than 0.06 in. (1.50 mm) above the upper edge of an end or side panel, whichever is higher, when measured from the lowest point on the upper edge of the end or side panel within 3 in. (76 mm) from the outermost countour of the post or elbow (see Fig. 1).

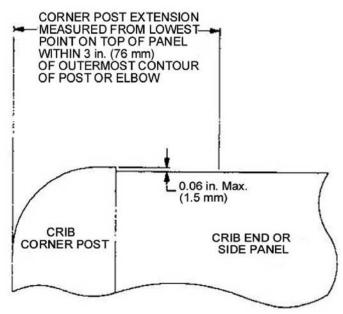


FIG. 1 Illustration of Requirements for Crib Corner Post Extensions

- 5.1.1.1 This requirement applies when any drop side/drop gate is in either the raised or lowered position.
- 5.1.2 The limitations in 5.1.1 do not apply to a corner post assembly that extends at least 16 in. (400 mm) above the uppermost surface of the side rail in its highest position.
- 5.1.3 Corner posts intended to accept removable vertical extensions made up of two or more segments (such as canopy post extensions) shall not permit the attachment of individual segments such that the resultant vertical extension would be in violation of the dimensional requirements of 5.1.
- 5.1.4 The dimensional requirements in 5.1 shall also apply to vertical members of circular cribs.
- 5.2 Prior to testing, any exposed wood parts shall be smooth and free of splinters.
- 5.3 There shall be no hazardous sharp points or edges as defined by 16 CFR 1500.48 and 16 CFR 1500.49 before or after testing to this specification.

- 5.4 There shall be no small parts, as defined by 16 CFR 1501, before testing or liberated as a result of testing in accordance with this specification.
- 5.5 The paint and surface coating on the product shall comply to 16 CFR 1303.
- 5.6 Product shall conform to the requirements of 16 CFR 1509.
- 5.7 There shall be no flammable solids as defined in 16 CFR 1500.3 (c) (6) (vi) before or after testing in accordance with this specification.
 - 5.8 Scissoring, Shearing, or Pinching:
- 5.8.1 A product, when in the manufacturer's recommended use position, shall be designed and constructed to prevent injury to the occupant from any scissoring, shearing, or pinching when members or components rotate about a common axis or fastening point, slide, pivot, fold, or otherwise move relative to one another. Scissoring, shearing, or pinching that may cause injury shall not be permissible when the edges of the rigid parts admit a probe that is greater than 0.210 in. (5.30 mm) and less than 0.375 in. (9.50 mm) diameter at any accessible point throughout the range of motion of such parts.
- 5.8.2 Products that allow the top rail to be in a lowered position when the unit is erected, as shown in Fig. 2, shall be evaluated for the potential for scissoring, shearing or pinching. Those components of the top rail, its hinges, locks, or mechanism that are deemed to be capable of scissoring, shearing or pinching shall be tested in accordance with 5.8.2.1-5.8.2.4.
- 5.8.2.1 At all intersections of the *drop top rail* with the *top rail saddle* (Point A, Fig. 2), the insertion of a probe greater than 0.210 in. (5.30 mm) in diameter and less than 0.375 in. (9.50 mm) in diameter to a depth of more than 0.210 in. (5.30 mm) shall not be permitted in any position throughout the range of motion of the top rail.
- -5.8.2.2 All intersections of the *hinge legs* and *saddle* with the *drop top rail* and the *inclined leg* (Point B, Fig. 2) where no padding of ½ in. (6.30 mm) or less exists, shall allow a 0.375-in. (9.50-mm) diameter probe to pass between adjacent members in any and all positions when rotating the hinge legs about their respective pivots.

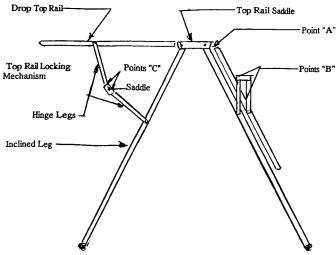


FIG. 2 Product Frame Components

5.8.2.3 The hinge legs shall allow a 0.375-in. (9.50-mm) diameter probe to pass between said hinge legs in any and all positions allowed when rotating the hinge legs about their respective pivots.

5.8.2.4 At all intersections of the drop side rail locking mechanism (hinge legs with the saddle) (Point C, Fig. 2) the intersection of the probe greater than 0.210 in. (5.30 mm) in diameter, and less than 0.375 in. (9.50 mm) in diameter, and greater than 0.210 in. (5.30 mm) deep within the intersecting parts in any and all positions shall not be permitted.

5.9 Latching and Locking Mechanisms:

5.9.1 All latches that are intended to be latched and unlatched during normal use while the child is in the product shall engage automatically when placed in the use position before and after testing. Latches may be manually activated to allow placement into the use position but must engage automatically when released.

5.9.2 Any unit that folds shall have a latching or locking device or other provision in the design that will prevent the unit from unintentionally folding when properly placed in the manufacturer's recommended use position.

5.9.2.1 During and upon completion of all testing, the unit shall remain in its manufacturer's recommended use position.

5.9.3 If a unit is designed with a latching or locking device:

5.9.3.1 That device shall remain engaged and operative after testing.

5.9.3.2 Each single-action locking or latching device that is provided to prevent folding shall require a minimum force of 10 lbf (45 N) to activate the release mechanism when tested in accordance with 8.8.2.

5.9.3.3 Each double-action locking or latching device that is provided to prevent folding shall require two distinct and separate actions for release. There are no force requirements for double-action locking or latching devices.

5.9.3.4 Product designs requiring latching or locking of a top rail(s) to prevent folding that include central hinge(s) and rail assembly(ies) that moves downward when folded, as shown in Fig. 3, shall have a locking device that automatically engages when placed in a manufacturer's recommended use position.

5.9.3.5 No top rail shall give the appearance of being in the manufacturer's recommended use position unless the locking device is fully engaged.

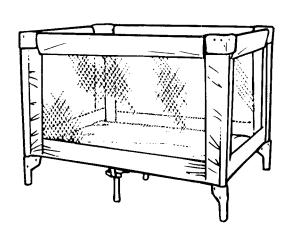
5.10 *Openings*:

5.10.1 Holes or slots that extend entirely through a wall section of any rigid material less than 0.375-in. (9.53-mm) thick and admit a 0.210-in. (5.33-mm) diameter rod shall also admit a 0.375-in. (9.53-mm) diameter rod. Holes or slots that are between 0.210 in. (5.33 mm) and 0.375 in. (9.53 mm) and have a wall thickness less than 0.375 in. (9.53 mm), but are limited in depth to 0.375-in. (9.53-mm) maximum by another rigid surface shall be permissible (see Fig. 4). The product shall be evaluated in all manufacturer's recommended use positions. Holes and openings in surfaces that are in contact with the floor or are below the mattress support and more than 3 in. (76 mm) in from the perimeter of the frame or outer perimeter of the occupant space of a play yard or non full-size crib are exempt from this requirement because they are deemed not accessible to the occupant or child on the outsides of the product.

5.10.2 Openings in the surface of a mattress support made of a rigid material shall be designed to prevent entrapment of fingers, toes, hands, or feet if the occupant can readily move, lift, or fold the mattress to expose the opening. Round openings shall comply with 5.10.1 and shall not exceed 1.25 in. (32 mm) in diameter. For other shaped openings, the opening shall comply with 5.10.1 and any linear continuous portion of an opening that admits a 0.375-in. (9.5-mm) diameter rod must fit within a 1.25-in. (32-mm) diameter circle.

Note 2—Rationale: The minor dimension of 0.210 and the major dimension of 0.375 is to prevent finger and toe entrapments in accessible holes and slots in juvenile products intended for children 6 to 24 months of age. These dimensional requirements are currently the standard for many juvenile products. This subcommittee is not aware of incident data that would support a change to these dimensions.

Adding the phrase "through a wall section of a rigid material less than 0.375 in." simplifies the testing procedure and is similar to existing international standards and Specification F 963. In three international standards (EN 716.1: 1996, Child Safety; CEN Technical Committee TC 252; and Child Use and Care Articles, prEN 12221-1 and 12221-2) state a depth of 10 mm (0.394 in.) which is similar to the proposed 0.375 thick. The thickness of 0.375 is also greater than existing toy standards



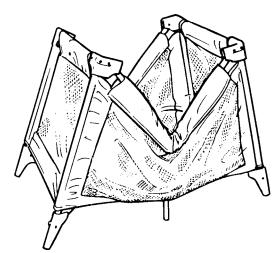


FIG. 3 Top Rail Assembly With Central Hinge(s)



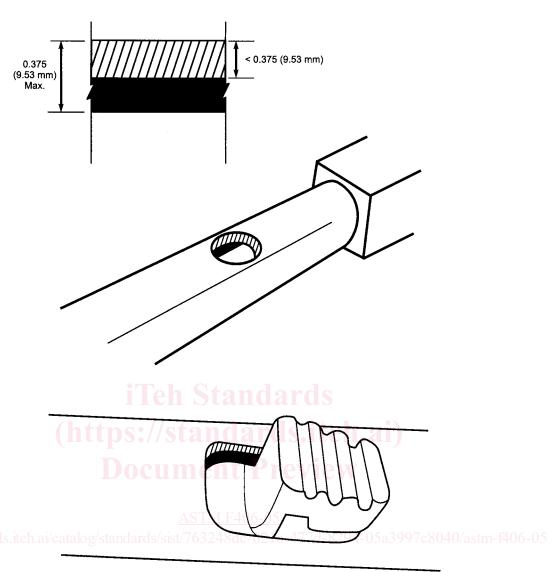


FIG. 4 Opening Example

Specification F 963 and ISO/FDIS 8124-1:1999(E), which is only 0.062 in. thick.

The evaluation is limited to holes and openings that are accessible inside the play yard or accessible to a child outside the play yard. The areas of a play yard or non-full-size crib that are not accessible are those components and surfaces on the underside of the floor and support structure that are some distance in from the outer perimeter, for example, tubing, center floor support hub, and the hardboard mattress support.

5.11 Protective Components:

5.11.1 If the child can grasp components between the thumb and forefinger, or teeth, (such as caps, sleeves, or plugs used for protection from sharp edges, points, or entrapment of fingers or toes) or if there is at least a 0.040-in. (1.00-mm) gap between the component and its adjacent parent component, such component shall not be removed when tested in accordance with 8.16.

5.12 Labeling

- 5.12.1 Warning labels (whether paper or nonpaper) shall be permanent when tested in accordance with 8.13.
- 5.12.2 Warning statements applied directly onto the surface of the product by hot stamping, heat transfer, printing, wood burning, etc. shall be permanent when tested in accordance with 8.14.
- 5.12.3 Nonpaper labels shall not liberate small parts when tested in accordance with 8.15.
- 5.12.4 Storage pouch or other part with warning statements printed on it, excluding labels, shall be considered permanent if it cannot be removed when tested in accordance with 8.18.
- 5.13 *Stability*—When subjected to the test described in 8.12, a minimum of three perimeter support points of the product not in a straight line shall remain in contact with the

inclined plane. Products with an adjustable mattress support shall be tested with the mattress in the lowest adjustment position.

- 5.14 *Cord Length*—No cord or strap made of a flexible material such as fabric, elastic, or plastic having a free stretched length in excess of 7.4 in. (188 mm) shall be attached to a product. Test in accordance with 8.19.
- 5.15 *Coil Springs*—Any exposed coil spring that is accessible to the occupant, having or capable of generating a space between coils of 0.210 in. (5.30 mm) or greater during static load testing specified in 8.4, 8.6, 8.7, and 8.8 shall be covered or otherwise designed to prevent injury from entrapment.
- 5.16 Entrapment in Attachments—These requirements apply to attachments as defined in 3.1.1. These requirements do not apply to:

Bassinet and changing table attachments that make the non-full size crib/play yard unusable when the attachment is assembled according to the manufacturer's instructions. The non-full size crib/play yard is considered to be unusable if the attachment requires the non-full size crib/play yard floor be removed from the non-full size crib/play yard and used in whole in the attachment.

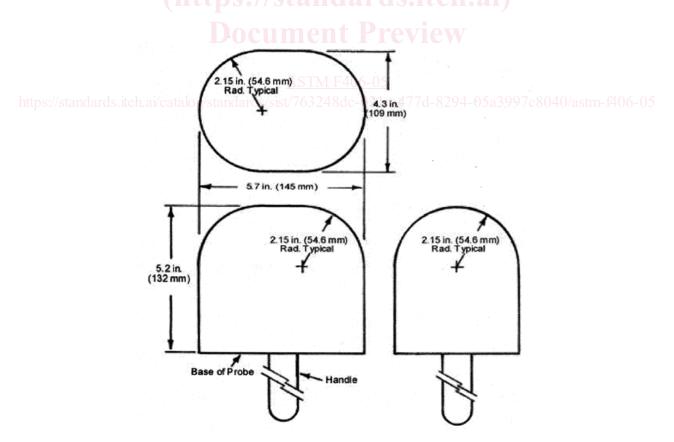
- 5.16.1 When tested in accordance with the procedure in 8.21.2 openings shall not permit the passage of the entire small head probe shown in Fig. 5, unless they allow the free passage of the entire large head probe shown in Fig. 6.
- 5.16.2 When tested in accordance with the procedure in 8.21.3, all attachment points shall remain attached and any

opening exposed by the test shall not permit the entire passage of the small head probe shown in Fig. 5.

5.16.3 Rationale—The entrapment test is to address entrapment when an attachment is added to a non-full size crib/play yard that could create an opening that may entrap an occupant's head. Openings shall be evaluated with attachments in any possible location. Openings are also evaluated after application of a 25-lbf force to the small head probe. This is the same force used to evaluate entrapment in shelves in the changing table standard. A 25-lbf force is also used in evaluating mattress support systems in the current non-full size crib/play yard/non-full-size and full-size crib standards. The small head probe represents the 5th percentile 6-month-old child because that is the youngest child having the developmental abilities to become entrapped.

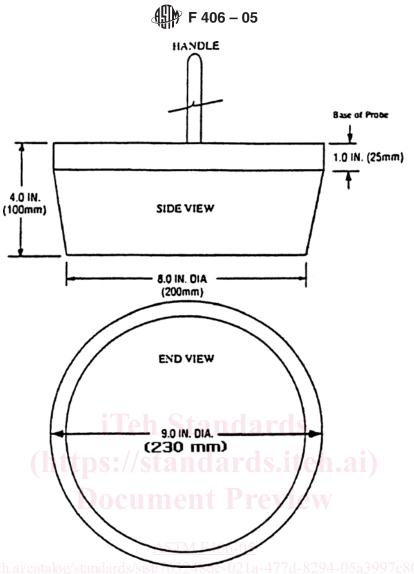
5.17 Mattress:

- 5.17.1 Each product shall be sold with the mattress pad included.
- 5.17.2 For mesh/fabric products, the filling material of the mattress such as foam, fiberfill, etc. shall not exceed 1 in. (25 mm) in thickness. The total thickness of the mattress including all fabric or vinyl layers, filling material and any structural members such as wood, hardboard, etc. shall not exceed 1½ in. (37 mm).
- 5.18 *Protrusions*—Neither string on the weight gage shall stay attached to a protrusion when tested in accordance with 8.20.



Note—Dimensions are based on a 5th percentile 6-month-old child. Gage may be modified to facilitate testing to allow for pulling of the gage.

FIG. 5 Small Head Probe



ntips://standards.iten.ar/catalog/standards/sist/7052-75dc-021a-4//d-8294-05a599/c8040/astm-1400-

Note—The 9.0 in. diameter is based on the back-of-head to tip-of-chin dimension for a 97th percentile 3-year-old. **FIG. 6 Large Head Probe**

6. Performance Requirements for Rigid Sided Products

- 6.1 After all testing, the product shall comply with Title 16 Code of Federal Regulations (CFR) Part 1509.
- 6.2 Vertical Impact Testing—These tests assist in evaluating the structural integrity of the unit assembly. Glue joints and other means of fastening are subjected to abusive loads and stresses.
 - 6.2.1 Mattress Support Testing:
- 6.2.1.1 This test consists of dropping an impactor repeatedly onto the mattress pad provided with the product (see 8.1).
- 6.2.1.2 Upon completion of testing, components attached by glue, screws or other fastening means shall not have separated by more than 0.04 in. (1 mm) over original configuration.
 - 6.2.2 Side or End Testing, or Both:
- 6.2.2.1 This test consists of repeatedly impacting the bottom rail of a unit side or end with a mass. See 8.2.
- 6.2.2.2 Upon completion of testing, components attached by glue, screws, or other fastening means shall not have separated by more than 0.04 in. (1 mm) over their original configuration.

- 6.3 Mattress Support System Testing—These tests assist in evaluating the integrity of the attachment of the mattress support to the product.
- 6.3.1 A mattress support that is fixed with respect to the unit frame, is tested in accordance with 8.3. Test failure occurs if the mattress support system becomes detached from the frame at any point of attachment, or if the force cannot be maintained.
- 6.3.2 A mattress support that is not fixed on opposite sides to the unit frame (for example, a hinged support or a support created by a recessed area in which the mattress support sits) is tested by gradually applying a 25-lbf (110-N) force in any direction to the mattress support to evaluate its attachment to the unit. The force is to be applied to the mattress support in each adjustment position. Test failure occurs if:
- 6.3.2.1 Any fixed portion of the mattress support system becomes detached from the unit at any point of attachment.
- 6.3.2.2 Any free-moving portion of the mattress support system that does not return to its intended use position once the force is removed. The force shall be removed after the force of

- 25 lbf (110 N) has been applied or the edge of the mattress support has been lifted at least 12 in. (300 mm).
- 6.4 *Side(s)* or *End(s) Latch Testing,* or *Both*—This test assists in evaluating the integrity of the dropside(s) or end(s) latching system, or both, under abusive load conditions.
 - 6.4.1 Dropside Latch Testing:
- 6.4.1.1 This test consists of horizontally loading the end while a prescribed force is applied to the dropside(s) (see 8.4.3 or 8.4.4).
- 6.4.1.2 The latching mechanism shall not disengage during testing and shall continue to function in the intended manner upon completion of the testing.
 - 6.4.2 Foldable Side or End Latch Testing:
- 6.4.2.1 This test consists of loading the latches intended to prevent folding of the side when in the manufacturer's recommended use position (see 8.4.5).
- 6.4.2.2 The latching mechanism shall not disengage during testing and shall continue to function in the intended manner upon completion of the testing.
 - 6.5 Plastic Teething Rail:
- 6.5.1 This test consists of deforming the plastic teething rail under load to determine the security of the attachment.
- 6.5.2 Failure occurs when the feeler gage as defined in 8.5.1.1 can freely enter into a gap created by the deflection or deformation of the plastic teething rail, or both, when tested in accordance with 8.5.

7. Performance Requirements for Mesh/Fabric Products

- Note 3—Mesh/fabric products that include a rigid side, end, or floor should be tested in accordance with Section 6 on that side, end, or floor.
- 7.1 *Height of Sides*—With mattress support in its lowest position, the height of sides of a unit shall be a minimum of 20 in. (508 mm) from the top of the non-compressed pad to the top of the side rail when the side rail is in its fully erected position.
- 7.2 *Side Deflection and Strength*—All tests in this section are to be performed sequentially.
- 7.2.1 Top rails and supporting members of the unit shall withstand a static load and shall not fracture, disengage, fold, or have a permanent deflection that reduces the height to less than that specified in 7.1 when tested in accordance with 8.6.2.2.
- 7.2.2 The side of the unit shall not deflect under load to a height less than 18 in. (460 mm) when measured vertically at the location where the load is applied when tested in accordance with 8.6.2.3.
- 7.2.3 The top rail and locking mechanism of the units having a top rail assembly with a central hinge (see Fig. 7) shall not break or disengage when tested in accordance with 8.6.2.4.
- 7.3 Floor Strength—The floor of the unit shall withstand application of a static load and a dynamic load when tested in accordance with 8.7. After completion of the test, the product shall comply with all requirements in Section 5 and have no structural failure in the frame, sides, ends, or floor.
- 7.4 Top Rail Covering Material—When unsupported or non-reinforced vinyls are used to cover any top rail or component, the thickness of the vinyl shall not be less than 0.011 in. (0.28 mm) when measured in accordance with 8.17.

- 7.5 Mesh Requirements:
- 7.5.1 *Mesh Openings*—Openings in the mesh shall be designed to prevent entrapment of fingers and toes and the snaring of buttons normally used in infant clothing. A mesh opening shall not admit a 0.250-in. (6.30-mm) diameter rod with a full-radius tip, when tested in accordance with 8.9.
- 7.5.2 *Mesh Strength*—No mesh shall, when tested in accordance with 8.10:
 - 7.5.2.1 Break or rupture, or
- 7.5.2.2 Become separated from its supporting structure or attachments.
 - 7.6 Fabric Material Requirements:
 - 7.6.1 Fabric Strength—See Note 4 in 8.9.
- 7.6.1.1 Fabric materials used for sides, ends, or floor support, excluding mesh, shall have a breaking strength of at least 50 lbf (220 N) when tested in a dry condition in accordance with the grab test in the section on Preparation of Specimens of Test Method D 5034, in both the warp and fill directions.
- 7.6.1.2 Fabric materials, used for sides, ends, or floor support excluding mesh, shall have a tear resistance of at least 2 lbf (9 N) when tested in accordance with Test Method D 1424 (Elmendorf) in both the warp and fill direction.
- 7.7 Mesh/Fabric Assembly Requirements—See Note 4 in 8.9.
- 7.7.1 Sewn Assembly—All stitching that is used in the sides, ends, or floor support and is accessible to the occupant shall be lock-stitching or a chain stitch where the key thread is not accessible to the occupant. The key thread is a thread at the end of a seam that if pulled will pull the stitching apart and disassemble the sewn assembly.
- 7.7.2 Seam Strength—All seams used in the sides, ends, or floor support of the unit shall, when tested in accordance with Test Method D 1683, have a breaking strength of not less than 30 lbf (130 N).
- Note 4—Samples required in this section should be taken from a new product assembly or representative raw materials, or both.
- 7.7.3 Mesh/Fabric Attachment Strength—All locations where a mesh/fabric or fabric assembly is mechanically fastened to a rigid structural element (for example, fastening of the mesh/fabric side to the perimeter of the hardwood floor) shall not disengage or deform under a load such that the fabric can be disassembled when tested in accordance with 8.11.

8. Test Methods

Note 5—All wood blocks are fabricated from 1 in. (25 mm) nominal thickness lumber having a finished thickness of $\frac{3}{4}$ in. (19 mm) unless otherwise specified.

- 8.1 *Mattress Support Impact Test for Rigid Sided Products*: 8.1.1 *Equipment*:
- 8.1.1.1 *Impactor*—A circular device with a contact area of 1 ft² (930 cm²), 13.5-in. (340-mm) diameter, with a 12 in. (3 mm) radius to ease the edges between the circular contact surface and the vertical cylindrical surface. The total weight shall be 45 lb (20 kg). The impactor shall pivot freely.
 - 8.1.1.2 Typical Test Frame—See Fig. 7.
 - 8.1.2 Test Procedure:
 - 8.1.2.1 Remove casters from the unit.

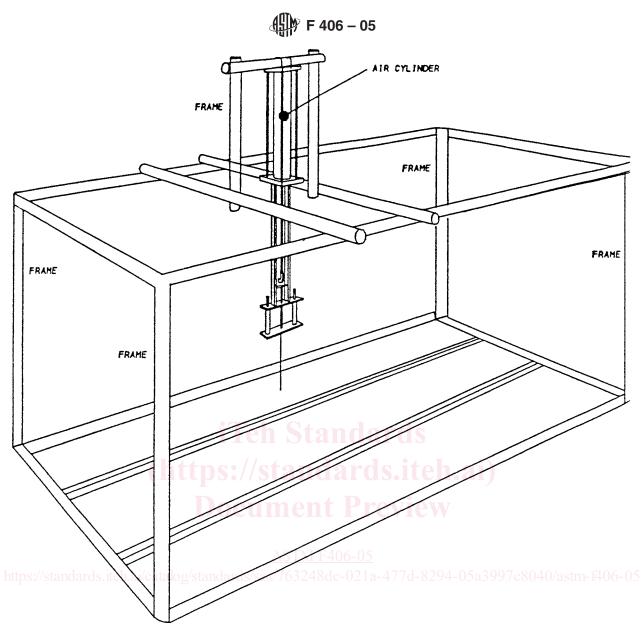
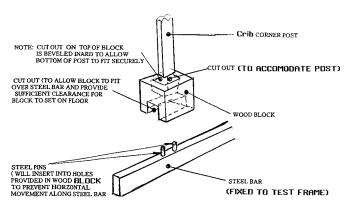


FIG. 7 Typical Test Frame

8.1.2.2 Prevent the unit from sliding in a manner that does not prevent changes of angle that may take place in the unit structure (see Fig. 8).



Note 1—Block system provided for all posts. FIG. 8 Typical Corner Post Positioning Block

- 8.1.2.3 Conduct all testing with the mattress support in the lowest position.
- 8.1.2.4 Allow the impactor specified in 8.1.1.1 to pivot freely and to free fall 6 in. (150 mm) onto the upper surface of the mattress provided with the product at a rate of 4 s per cycle for the following number of cycles.
- 8.1.2.5 500 cycles within $\frac{1}{2}$ in. (13 mm) of the geometric center of the mattress area.
- $8.1.2.6\ 100$ cycles at each of two diagonally opposite corners, the weight center line, centered $9\ +\frac{1}{2}$, -0 in. (230 +13, -0 mm) from the unit sides forming the corner.
- 8.2 Side or End Impact Test, or Both, for Rigid Sided Products:
 - 8.2.1 *Equipment*:
 - 8.2.1.1 Typical Side Assembly Test Fixture (See Fig. 9):
- 8.2.1.2 Rubber pad $\frac{3}{8} \pm \frac{1}{16}$ in. (9 \pm 1.6 mm) thick 30 to 40 durometer, Type A scale. Large enough to cover the impact area specified in 8.2.1.6.