



Designation: F3186 – 17

Standard Specification for Adult Portable Bed Rails and Related Products¹

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1. Scope

1.1 This safety specification establishes performance requirements for adult portable bed rails, related products, and adult portable bedrail accessories, including requirements for resistance to entrapment, marking and adhered labels, instructional literature, and advertising.

1.2 This standard is applicable to any such product (as defined below) that is not designed as part of the bed by the bed manufacturer, and is installed on, against or adjacent to the side of an adult bed and is for use by adults to reduce the risk of falling from the bed, assist in repositioning in the bed, assist in transitioning into or out of the bed, or other similar purposes as stated by the manufacturer.

1.3 This safety specification includes adult portable bed rails that meet the definition of a medical device and are therefore under the jurisdiction of the Food and Drug Administration (FDA), and adult portable bed rails that are not medical devices, and which therefore fall under the jurisdiction of the Consumer Product Safety Commission (CPSC).²

1.4 This safety specification does not cover guardrails or side rails intended for use on FDA regulated hospital beds, or portable rails for children which are included in Consumer Safety Specification F1821 for toddler beds, Consumer Safety Specification F2085 for portable bed rails for children, or IEC 60601-2-52 for medical beds.

1.5 This safety specification is intended to minimize entrapment and strangulation hazards that are attributed to design components, whether these hazards arise from normal installation and use, reasonably foreseeable mis-installation/misuse, or changes to the stability of the attachment over time, or combinations thereof. Other hazards may exist (for example, falls) that are not within the scope of this specification. Such hazards will be the subject of additional standards.

1.6 No adult portable bed rail, or related product as defined in this specification, shall, either by label or other means,

¹ This specification is under the jurisdiction of ASTM Committee F15 on Consumer Products and is the direct responsibility of Subcommittee F15.70 on Adult Safety Products.

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² See “Is The Product a Medical Device?”, www.fda.gov/medicaldevices/deviceregulationandguidance/overview/classifyyourdevice/ucm051512.htm.

indicate compliance with this specification unless it conforms to all the requirements contained herein.

1.7 *Units*—The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversion to SI units that are provided for information only and are not considered standard.

1.8 *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.*

1.9 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the 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:³

D3359 Test Methods for Rating Adhesion by Tape Test

F1821 Consumer Safety Specification for Toddler Beds

F2085 Consumer Safety Specification for Portable Bed Rails

2.2 Federal Standards and Guidelines:⁴

16 CFR 1500.48 Technical Requirements for Determining a Sharp Point in Toys and Other Articles Intended for Use by Children Under 8 Years of Age

16 CFR 1500.49 Technical Requirements for Determining a Sharp Metal or Glass Edge in Toys and Other Articles Intended for Use by Children Under 8 Years of Age

2.3 Other Standards:

IEC 60601-2-52 Medical Electrical Equipment – Part 2-52: Particular Requirements for the Basic Safety and Essential Performance of Medical Beds⁵

³ 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.

⁴ Available from U.S. Government Printing Office, Superintendent of Documents, 732 N. Capitol St., NW, Washington, DC 20401-0001, <http://www.access.gpo.gov>.

⁵ Available from International Electrotechnical Commission (IEC), 3, rue de Varembe, 1st Floor, P.O. Box 131, CH-1211, Geneva 20, Switzerland, <http://www.iec.ch>.