



Standard Specification for Mattress and Box Springs for Use in Berths in Marine Vessels¹

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1. Scope

1.1 This specification provides the requirements for mattresses and box springs that are for use in berths for officers, crew, and passengers in marine vessels. This shall be considered a minimum standard.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses, in inch-pound units, are for information only.

1.3 *This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of the materials, products, or assemblies under actual fire conditions.*

1.4 *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 Documents

2.1 ASTM Standards:²

- D123 Terminology Relating to Textiles
- D1424 Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus
- D3574 Test Methods for Flexible Cellular Materials—Slab, Bonded, and Molded Urethane Foams
- D3951 Practice for Commercial Packaging
- D5034 Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
- D6193 Practice for Stitches and Seams
- D6413 Test Method for Flame Resistance of Textiles (Vertical Test)

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.03 on Outfitting and Deck Machinery.

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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.

E162 Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source

E176 Terminology of Fire Standards

E662 Test Method for Specific Optical Density of Smoke Generated by Solid Materials

E1354 Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter

E1590 Test Method for Fire Testing of Mattresses

F1566 Test Methods for Evaluation of Innersprings, Boxsprings, Mattresses or Mattress Sets

2.2 ANSI Standards:³

ANSI Z357.1-1981 American National Standard for Bedding Products and Components

ANSI/ASQC Z1.4 Sampling Procedures and Tables for Inspection by Attributes

2.3 California Bureau of Home Furnishings and Thermal Insulation Standard:

CA Technical Bulletin 129, (CA TB 129) Flammability Test Procedure for Mattresses for Use in Public Buildings—October 1992⁴

2.4 Federal Standards:

Code of Federal Regulations Title 16, Vol 2, Part 1632⁵
Purchase Description—Mattress—Innerspring, Flame-Resistant, Shipboard—NAVSEA 05L PD 4-02 (May 2002)⁶

2.5 NFPA Standard:

NFPA 301 Code for Safety to Life from Fire on Merchant Vessels⁷

3. Terminology

3.1 *Definitions*—For definitions of terms used in this specification associated with textiles, see Terminology D123. For

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

⁴ Available from California Bureau of Home Furnishings and Thermal Insulation, 3483 Orange Grove Ave., North Highlands, CA 95660.

⁵ 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>.

⁶ Available from Naval Sea Systems Command (NAVSEA), 1333 Isaac Hull Ave., SE, Washington, DC 20376, <http://www.navsea.navy.mil>.

⁷ Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02169-7471, <http://www.nfpa.org>.