



**Designation: F 1085 – 03<sup>ε1</sup>**

An American National Standard

## **Standard Specification for Mattress and Box Springs for Use in Berths in Marine Vessels<sup>1</sup>**

This standard is issued under the fixed designation F 1085; 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.

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<sup>ε1</sup> NOTE—Editorial changes were made throughout in May 2003.

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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 inch-pound units are to be regarded as the standard (except where such units are not present, when discussing fire test methods). The values given in parentheses, in SI 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:**

- D 123 Terminology Relating to Textiles<sup>2</sup>
- D 1424 Test Method for Tearing Strength of Fabrics by Falling-Pendulum Type (Elmendorf) Apparatus<sup>2</sup>
- D 3574 Test Methods for Flexible Cellular Materials—Slab, Bonded, and Molded Urethane Foams<sup>3</sup>
- D 3951 Practice for Commercial Packaging<sup>4</sup>

D 5034 Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)<sup>5</sup>

D 6193 Practice for Stitches and Seams<sup>5</sup>

D 6413 Test Method for Flame Resistance of Textiles (Vertical Test)<sup>5</sup>

E 162 Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source<sup>6</sup>

E 176 Terminology of Fire Standards<sup>6</sup>

E 662 Test Method for Specific Optical Density of Smoke Generated by Solid Materials<sup>6</sup>

F 1566 Test Methods for Evaluation of Innersprings and Box Springs<sup>7</sup>

E 1590 Test Method for Fire Testing of Mattresses<sup>6</sup>

#### **2.2 ANSI Standards:**

ANSI Z357.1-1981 American National Standard for Bedding Products and Components<sup>8</sup>

ANSI/ASQC Z1.4 Sampling Procedures and Tables for Inspection by Attributes<sup>8</sup>

#### **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 1992<sup>9</sup>

#### **2.4 Federal Standards:**

Code of Federal Regulations Title 16, Vol 2, Part 1632<sup>10</sup>  
Purchase Description—Mattress—Innerspring, Flame-Resistant, Shipboard—NAVSEA 05L PD 4-02 (May 2002)<sup>11</sup>

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<sup>1</sup> 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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<sup>2</sup> Annual Book of ASTM Standards, Vol 07.01.

<sup>3</sup> Annual Book of ASTM Standards, Vol 08.04.

<sup>4</sup> Annual Book of ASTM Standards, Vol 15.09.

<sup>5</sup> Annual Book of ASTM Standards, Vol 07.02.

<sup>6</sup> Annual Book of ASTM Standards, Vol 04.07.

<sup>7</sup> Annual Book of ASTM Standards, Vol 15.07.

<sup>8</sup> Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

<sup>9</sup> Available from California Bureau of Home Furnishings and Thermal Insulation, 3483 Orange Grove Ave., North Highlands, CA 95660.

<sup>10</sup> Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SSOP, Washington, DC 20402-9328.

<sup>11</sup> Available from NAVSEA, Naval Sea Systems Command, Dept. of Navy, 1333 Isaac Hull Ave., STOP 5149 (SEA 05P6), Washington Navy Yard, DC 20376-5149.