



Standard Specification for Domestic Use Doors and Frames, Steel, Interior, Marine¹

This standard is issued under the fixed designation F821/F821M; 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.

1. Scope

1.1 This specification covers the construction of standard and custom-built interior steel doors and frames for ships including U.S. Coast Guard certificated vessels with domestic routes.

1.2 Doors and frames are to be hollow metal construction with the door insulated for sound or fire.

1.3 The doors are intended for use in staterooms, lavatories, passageways, and other areas protected from weather.

1.4 The values stated in either inch-pound units or SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other.

2. Referenced Documents

2.1 ASTM Standards:²

A240/A240M Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

A582/A582M Specification for Free-Machining Stainless Steel Bars

A1008/A1008M Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable

E136 Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C

2.2 Code of Federal Regulations (CFR) Title 46—Shipping: Subchapter D—Tank Vessels, Subpart 32.57—Structural Fire Protection³

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.

Current edition approved June 1, 2012. Published October 2012. Originally approved in 1983. Last previous edition approved in 2001 as F821/F821M – 01(2007)^{ε1}. DOI: 10.1520/F0821_F0821M-01R12.

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 the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

Subchapter H—Passenger Vessels, Subpart 72.05—Structural Fire Protection³

Subchapter I—Cargo and Miscellaneous Vessels, Subpart 92.07—Structural Fire Protection³

Subchapter T—Small Passenger Vessels, Subpart 177.300—Hull Structure³

Subchapter U—Oceanographic Vessels, Subpart 190.07—Structural Fire Protection³

Structural Insulations, Subpart 164.007³

Structural Insulations, Subpart 164.107³

Noncombustible Materials for Merchant Vessels, Subpart 164.009³

Noncombustible Materials, Subpart 164.109³

2.3 Builders Hardware Manufacturers Association, Inc.: A 156.18 Materials and Finishes⁴

2.4 U.S. Public Health Service:

Publication No. 393, Handbook on Sanitation of Vessel Construction⁵

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *hands of doors*—a term used to describe a door from the outside or key side of the door.

3.1.2 *right-hand regular door*—a door having hinges on the right side when swinging door away from the individual opening it.

3.1.3 *left-hand regular door*—a door having hinges on the left side when swinging door away from the individual opening it.

3.1.4 *right-hand reverse bevel door*—a door having hinges on right side when swinging door towards the individual opening it.

3.1.5 *left-hand reverse bevel door*—a door having hinges on left side when swinging door towards the individual opening it.

3.1.6 *face plates*—the exterior metal skins that enclose the internal supporting structure of the door.

⁴ Available from BHMA, Inc., 355 Lexington Ave., 17th Floor, New York, NY 10017.

⁵ Available from United States Public Health Services, Division of Engineering Services, Parklawn Library, Room 1315, 5600 Fishers Lane, Rockville, MD 20857, Attention: Ms. Bonnie Scott.