



Standard Specification for Doors, Watertight, Gastight/Airtight and Weathertight, Individually Dogged, for Marine Use¹

This standard is issued under the fixed designation F 1069; 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, to be used in conjunction with Specification F 1073, covers the principal dimensions and the mechanical requirements for manufacturing steel, aluminum, and glass-reinforced plastic, individually dogged, watertight, gastight/airtight, and weathertight doors, for personnel access through bulkheads, complete with frames, for marine use intended to maintain the structural and tightness integrity of bulkheads.

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

1.3 The following safety hazards caveat pertains 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.*

2. Referenced Documents

2.1 ASTM Standards:

A 36/A36M Specification for Carbon Structural Steel²

A 131/A131M Specification for Structural Steel for Ships²

B 209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate³

F 1073 Specification for Door Fittings, for Watertight/Gastight/Airtight, Weathertight, and Non-Tight Doors, for Marine Use⁴

2.2 ABS Standard:

Rules for Building and Classing Steel Vessels⁵

2.3 Military Standards:

MIL-R-900 Rubber Gasket Material (45 Durometer Hardness)⁶

MIL-R-21607 Resins, Polyester Low-Pressure Laminating Fire Retardant⁶

MIL-P-17549 Plastic Laminates, Fibrous Glass Reinforced⁶

MIL-G-17927 Gaskets, Glass-Metallic Cover, Silicone Core⁶

MIL-C-81706 Coating, Aluminum and Aluminum Alloys⁶

MIL-P-24441 Epoxy-Polyamide Paint⁶

DoD-STD-2138 Metal Sprayed Coating Systems for Corrosion Protection⁶

TT-E-490 Enamel Silicone Alkyd Copolymer, Semi-gloss Exterior⁶

3. Classification

3.1 The doors shall be classified into groups as given in Table 1, according to their application; in addition, the length “L” shall be in accordance with the ABS Rules for Building and Classing Steel Vessels.

3.2 The doors shall be of two types. Type I doors shall conform to all dimensions, scantlings, and details of this specification. Type II doors shall be to special openings conforming to the test methods of this specification and scantlings indicated in Figs. 1-4. Special built doors with more than 9 psi (62 kPa) shall be indicated in the ordering information (see Supplementary Requirements).

3.2.1 Tolerances of all doors shall be $\pm \frac{1}{8}$ in. (3 mm).

3.3 Where structural fire protection requirements are applicable, the doors shall meet the same requirements as required for the bulkheads in which fitted.

4. Ordering Information

4.1 Orders for doors, under this specification, shall include the following:

4.1.1 Group (see Table 1), type of material and dimensions (see Tables 2-5 inclusive) of doors,

4.1.2 Nominal and ASTM designations indicating fixed lights or no lights,

¹ This specification is under the jurisdiction of ASTM Committee F-25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.03 on Outfitting.

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² Annual Book of ASTM Standards, Vol 01.04.

³ Annual Book of ASTM Standards, Vol 02.02.

⁴ Annual Book of ASTM Standards, Vol 01.07.

⁵ Available from American Bureau of Shipping, ABS Plaza, 16855 Northchase Dr., Houston, TX 77060.

⁶ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.