



Standard Specification for Construction of Fire and Foam Station Cabinets¹

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1. Scope

1.1 This specification provides design and construction criteria for double and single fire and foam station cabinets. See Fig. 1 and Fig. 2. Valves, hose, and fittings are not included.

1.2 Optional back and legs may be provided.

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

2. Referenced Documents

2.1 ASTM Standards:²

A36/A36M Specification for Carbon Structural Steel

A53/A53M Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless

A167 Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip (Withdrawn 2014)³

A312/A312M Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes

A569/A569M Specification for Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip Commercial (Withdrawn 2000)³

B209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate

B221 Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes

F593 Specification for Stainless Steel Bolts, Hex Cap Screws, and Studs

F594 Specification for Stainless Steel Nuts

F783 Specification for Staple, Handgrab, Handle, and Stirrup Rung

2.2 American National Standards:⁴

ANSI B18.21.1 Lock Washer

ANSI B18.22.1 Plain Washer

2.3 Other Standards:

American Bureau of Shipping Rules for Building and Classing of Steel Vessels⁵

American Welding Society Publication, AWS D 1.1 Structural Welding Code⁶

3. Classification

3.1 *Type I, Single Cabinet* (see Fig. 1 and Figs. 3-9):

3.1.1 *Grade 1*—Right-hand door active leaf.

3.1.1.1 *Class A, Mild Steel*—Specification A36/A36M.

3.1.1.2 *Class B, Stainless Steel*—Specification A167.

3.1.1.3 *Class C, Aluminum*—Specification B209.

3.1.2 *Grade 2*—Left-hand door.

3.1.2.1 *Class A, Mild Steel*—Specification A36/A36M.

3.1.2.2 *Class B, Stainless Steel*—Specification A167.

3.1.2.3 *Class C, Aluminum*—Specification B209.

3.2 *Type II, Double Cabinet* (see Fig. 2 and Fig. 8):

3.2.1 *Grade 1*—Right-hand doors active leaf.

3.2.1.1 *Class A, Mild Steel*—Specification A36/A36M.

3.2.1.2 *Class B, Stainless Steel*—Specification A167.

3.2.1.3 *Class C, Aluminum*—Specification B209.

4. Ordering Information

4.1 Fire and foam cabinets ordered in accordance with this specification shall include the following:

4.1.1 ASTM title, designation, and year of issue,

4.1.2 Quantity (number of cabinets),

4.1.3 Type, grade, and class, and

4.1.4 Optional features.

5. Materials and Manufacture

5.1 Materials:

5.1.1 See Table 1.

5.1.2 Class materials.

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.11 on Machinery and Piping Systems.

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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.

³ The last approved version of this historical standard is referenced on www.astm.org.

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

⁵ Available from American Bureau of Shipping (ABS), ABS Plaza, 16855 Northchase Dr., Houston, TX 77060, <http://www.eagle.org>.

⁶ Available from American Welding Society (AWS), 550 NW LeJeune Rd., Miami, FL 33126, <http://www.aws.org>.