



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- A569/A569M Specification for Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip Commercial (Withdrawn 2000)³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

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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>.

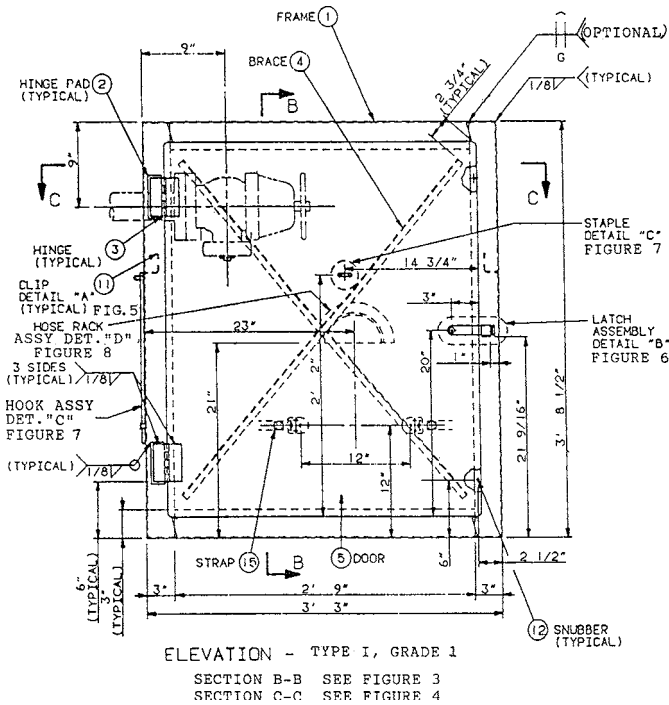


FIG. 1 Fire and Foam Cabinet—Type I

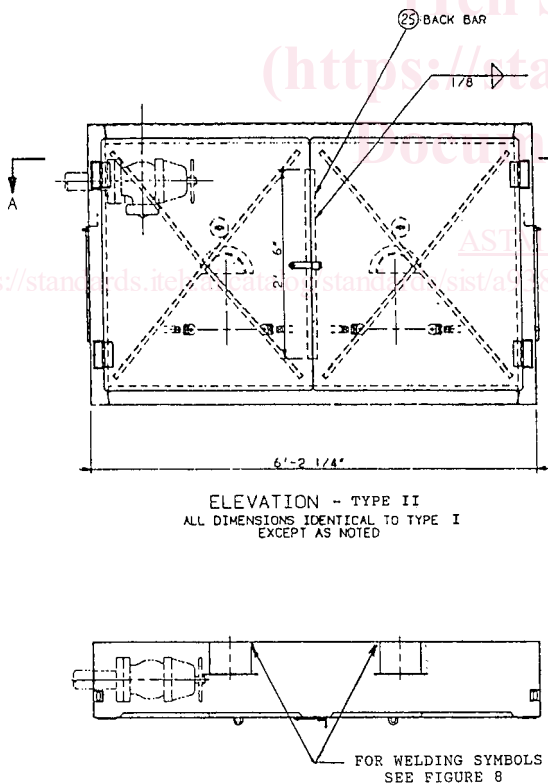


FIG. 2 Fire and Foam Cabinet—Type II

5.1.2.1 All materials for Class A cabinets shall meet the requirements of Specifications A53/A53M and A36/A36M or Specification A569/A569M, except as specified in Table 1.

Item Number ^A	Description ^B
1	Frame plate, 12 gage
2	Hinge pad flat bar, 1 1/2 in. by 4 1/2 in. by 12 gage
3	Hinge undrilled butt, 4 in. long by 2 in. wide, commercial stainless steel
4	Brace angle, 3/4 by 3/4 by 1/8 in.
5	Door plate, 12 gage
6	Staple round bar, 3/8-in. dimensions in accordance with Specification F783
7	Hook round bar, 1/4 in.
8	Latch flat bar, 3/16 by 1 in.
9	Keeper flat bar, 3/4 by 1 in.
10	Rivet button monel or aluminum, 1/4 in.
11	Clip wrench/nozzle, plate 12 gage
12	Snubber rubber, commercial
13	Retainer plate, 12 gage
14	Saddle pipe 6 NPS Schedule 40, Specification A53/A53M
15	Strap hose securing, quick disconnect, commercial
16	Clip hook securing, commercial, Specification A167
17	Washer TFE-fluorocarbon
Options	
18	Back plate, 3/16 in.
19	Leg angle, 4 by 3 by 3/8 in., Specification A36/A36M
20	Brace angle, 4 by 3 by 3/8 in., Specification A36/A36M
21	Bolt hex head, 3/8—16 UNC—2A by 1 1/4-in. long, stainless steel Type 316, Specification F593
22	Washer flat, stainless steel Type 316 for 3/8-in. diameter bolt, ANSI B18.22.1, Type B
23	Nut heavy hex 3/8—16 UNC—2B, stainless steel Type 316, Specification F594
24	Washer lock, stainless steel Type 316 for 3/8-in. diameter bolt, ANSI B18.21.1A36/A36M, Regular
25	Back bar Type II Double Cabinet Only flat bar, 1 1/2 in. by 30 in. by 12 gage

^A Items 18 to 24 (inclusive) are optional.

^B 1 in. = 25.4 mm.

5.1.2.2 All materials for Class B cabinets shall meet the requirements of Specifications A167 and A312/A312M, except as specified in Table 1.

5.1.2.3 All materials for Class C cabinets shall meet the requirements of Specifications B209 and B221 except as specified in Table 1.

5.2 Manufacture:

5.2.1 Welding shall be in accordance with the American Bureau of Shipping Rules for Building and Classing of Vessels or American Welding Society Structural Welding Code AWS D1.1.

5.2.2 Punchout shall have a 3-in. (approximately 76-mm) diameter hole with three evenly spaced 1/16-in. (approximately 1.5-mm) tabs for both sides of cabinet (see Fig. 3).

6. Workmanship, Finish, and Appearance

6.1 Fire and foam cabinets shall be free of weld spatter, burrs, and sharp corners, rough edges, and other defects which might be hazardous to personnel and equipment.

6.2 Surface Requirements:

6.2.1 Class A Cabinets—Coat with 1.0-mil dry film thickness, inorganic zinc silicate, including options.

6.2.2 Class B Cabinets—Uncoated. Optional legs coated with 1.0-mil dry film thickness, inorganic zinc silicate.

6.2.3 Class C Cabinets—Uncoated.