



Standard Specification for Construction of Fire and Foam Station Cabinets¹

This standard is issued under the fixed designation F1333; 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 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 standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

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A167 Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip (Withdrawn 2014)³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A569/A569M Specification for Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip Commercial (Withdrawn 2000)³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 *ASME Standards:*⁴

B18.21.1 Washers: Helical Spring-Lock, Tooth Lock, and Plain Washers (Inch Series)

B18.22.1 Plain Washers

2.3 *Other Standards:*

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

American Welding Society Publication, AWS D1.1 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 Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Two Park Ave., New York, NY 10016-5990, <http://www.asme.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), 8669 NW 36 St., #130, Miami, FL 33166-6672, <http://www.aws.org>.

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.

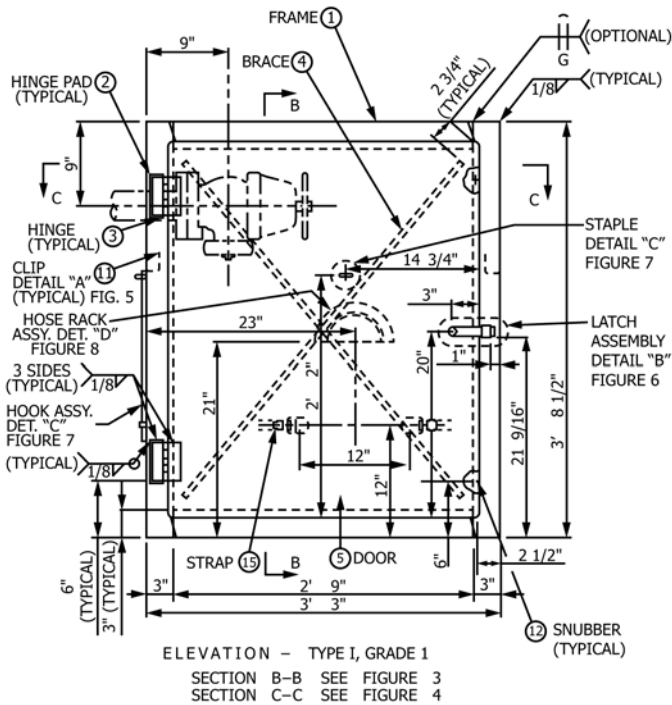


FIG. 1 Fire and Foam Cabinet—Type I

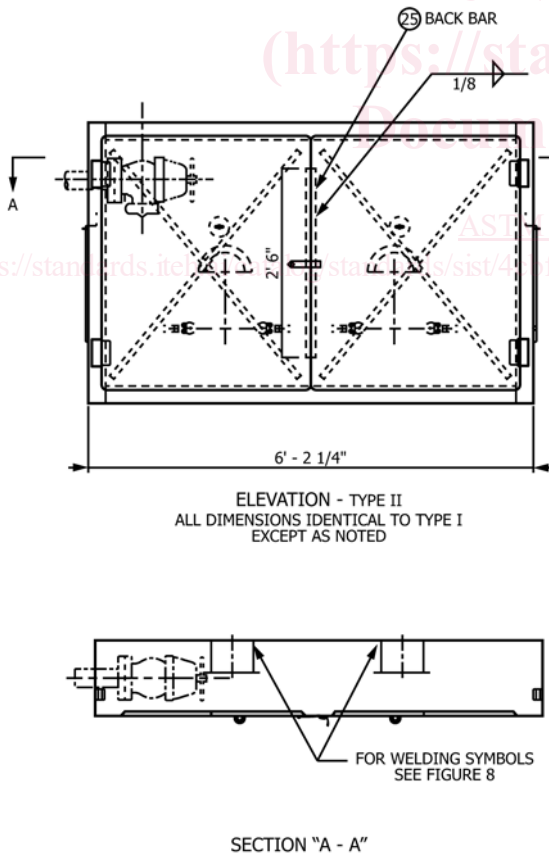


FIG. 2 Fire and Foam Cabinet—Type II

TABLE 1 Parts List

Item Number ^A	Description ^B
1	Frame plate, 12 gauge
2	Hinge pad flatbar, 1½ in. by 4½ in. by 12 gauge
3	Hinge undrilled butt, 4 in. long by 2 in. wide, commercial stainless steel
4	Brace angle, ¾ by ¾ by ⅛ in.
5	Door plate, 12 gauge
6	Staple round bar, ⅝-in. dimensions in accordance with Specification F783
7	Hook round bar, ¼ in.
8	Latch flat bar, ⅝ by 1 in.
9	Keeper flat bar, ¾ by 1 in.
10	Rivet button monel or aluminum, ¼ in.
11	Clip wrench/nozzle, plate 12 gauge
12	Snubber rubber, commercial
13	Retainer plate, 12 gauge
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, ⅝ in.
19	Leg angle, 4 by 3 by ⅝ in., Specification A36/A36M
20	Brace angle, 4 by 3 by ⅝ in., Specification A36/A36M
21	Bolt hex head, ⅝ —16 UNC—2A by 1¼-in. long, stainless steel Type 316, Specification F593
22	Washer flat, stainless steel Type 316 for ⅝-in. diameter bolt, ASME B18.22.1, Type B
23	Nut heavy hex ⅝ —16 UNC—2B, stainless steel Type 316, Specification F594
24	Washer lock, stainless steel Type 316 for ⅝-in. diameter bolt, ASME B18.21.1, Regular
25	Back bar Type II Double Cabinet Only flat bar, 1½ in. by 30 in. by 12 gauge

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

^B 1 in. = 25.4 mm.

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.

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.

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 ⅛-in. (approximately 1.5-mm) tabs for both sides of cabinet (see Fig. 3).

4.1.1 ASTM title, designation, and year of issue,

4.1.2 Quantity (number of cabinets),