

Designation: F 1333 – 91 (Reapproved 2002)

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:
- A 36/A 36M Specification for Structural Steel²
- A 53 Specification for Pipe, Steel, Black and Hot Dipped, Zinc Coated Welded and Seamless³
- A 167 Specification for Stainless and Heat-Resisting Chromium Nickel Steel Plate, Sheet and Strip⁴
- A 312/A 312M Specification for Seamless and Welded Austenitic Stainless Steel Pipe³
- A 569/A 569M Specification for Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip, Commercial Quality⁴
- B 209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate⁵ itel and catalog/standards/sist/catalog/standards/standards/sist/catalog/standards/sist/catalog/standards/sist/catalog/standards/sist/catalog/standards/standards/standards/sist/catalog/standards/standards/sist/catalog/standards/st
- B 221 Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes and Tubes⁵
- F 593 Specification for Stainless Steel Bolts, Hex Cap Screws and Studs⁶
- F 594 Specification for Stainless Steel Nuts⁶
- F 783 Specification for Staple, Handgrab, Handle, and Stirrup Rung⁷
- 2.2 American National Standards:⁸
- ANSI B18.21.1 Lock Washer

- ⁴ Annual Book of ASTM Standards, Vol 01.03.
- ⁵ Annual Book of ASTM Standards, Vol 02.02.
- ⁶ Annual Book of ASTM Standards, Vol 01.08.
- ⁷ Annual Book of ASTM Standards, Vol 01.07.

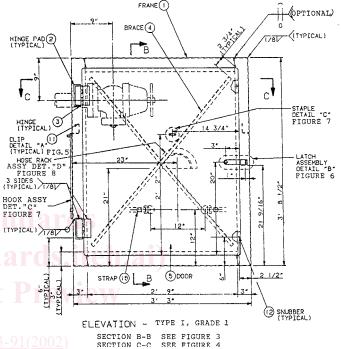


FIG. 1 Fire and Foam Cabinet—Type I

ANSI B18.22.1 Plain Washer

- 2.3 Other Standards:
- American Bureau of Shipping Rules for Building and Classing of Steel Vessels⁹
- American Welding Society Publication, AWS D 1.1 Structural Welding Code¹⁰

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 A 36/A 36M.
- 3.1.1.2 Class B, Stainless Steel-Specification A 167.
- 3.1.1.3 Class C, Aluminum—Specification B 209.

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² Annual Book of ASTM Standards, Vol 01.04.

³ Annual Book of ASTM Standards, Vol 01.01.

⁸ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

⁹ Available from American Bureau of Shipping (ABS), ABS Plaza, 16855 Northchase Dr., Houston, TX 77060.

¹⁰ Available from The American Welding Society (AWS), 550 NW LeJeune Rd., Miami, FL 33126.

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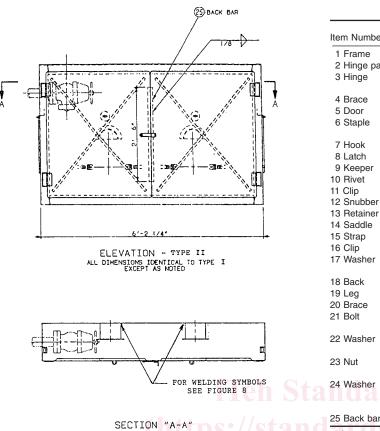


TABLE 1 Parts List

mber ^A	Description ^B
ie	plate, 12 gage
e pad	flatbar, 11/2 in. by 41/2 in. by 12 gage
e	undrilled butt, 4 in. long by 2 in. wide, commercial
	stainless steel
e	angle, 3/4 by 3/4 by 1/8 in.
	plate, 12 gage
le	round bar, 3/8-in. dimensions in accordance with
	Specification F 783
(round bar, 1/4 in.
ı	flat bar, 3/16 by 1 in.
ber	flat bar, 3/16 by 1 in.
t	button monel or aluminum, 1/4 in.
	wrench/nozzle, plate 12 gage
ber	rubber, commercial
iner	plate, 12 gage
lle	pipe 6 NPS Schedule 40, Specification A 53
)	hose securing, quick disconnect, commercial
	hook securing, commercial, Specification A 167
ner	TFE-fluorocarbon
	Options
	plate, 3/16 in.
	angle, 4 by 3 by 3/8 in., Specification A 36/A 36M
е	angle, 4 by 3 by 3/8 in., Specification A 36/A 36M
	hex head, 3/8 —16 UNC—2A by 11/4-in. long,
	stainless steel Type 316, Specification F 593
ner	flat, stainless steel Type 316 for 3/8-in. diameter bolt,
	ANSI B18.22.1, Type B
	heavy hex 3/8 -16 UNC-2B, stainless steel Type
	316, Specification F 594
ner	lock, stainless steel Type 316 for 3/8-in. diameter
	bolt, ANSI B18.21.1, Regular
	Type II Double Cabinet Only
bar	flat bar, 11/2 in. by 30 in. by 12 gage

FIG. 2 Fire and Foam Cabinet—Type II

^A Items 18 to 24 (inclusive) are optional. ^B1 in. = 25.4 mm.

- 3.1.2 Grade 2-Left-hand door.
- 3.1.2.1 Class A, Mild Steel-Specification A 36/A 36M.
- 3.1.2.2 Class B, Stainless Steel—Specification A 167.
- 3.1.2.3 Class C, Aluminum—Specification B 209.
- 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 A 36/A 36M.
- 3.2.1.2 Class B, Stainless Steel—Specification A 167.
- 3.2.1.3 Class C, Aluminum—Specification B 209.

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.

5.1.2.1 All materials for Class A cabinets shall meet the requirements of Specifications A 53 and A 36/A 36M or Specification A 569/A 569M, except as specified in Table 1.

5.1.2.2 All materials for Class B cabinets shall meet the requirements of Specifications A 167 and A 312/A 312M, except as specified in Table 1.

5.1.2.3 All materials for Class C cabinets shall meet the requirements of Specifications B 209 and B 221 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.

7. Packaging and Package Marking

7.1 Loose fasteners and hardware shall be packaged and securely attached inside each cabinet.

7.2 *Shipping*—Each cabinet shall bear a weathertight tag showing the purchase order number, ASTM standard designation, type, and name of manufacturer.