Designation: F1018 – 22

An American National Standard

# Standard Specification for Steel Emergency Gear Stowage Locker[1]

This standard is issued under the fixed designation F1018; 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 covers the design, material, and manufacture of steel emergency gear stowage lockers.

1.2 Emergency gear lockers shall be of four types (see Section 3).

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

A276 Specification for Stainless Steel Bars and Shapes

A1008/A1008M Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable

A513 Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing

A563 Specification for Carbon and Alloy Steel Nuts (Metric) A0563_A0563M

B36/B36M Specification for Brass Plate, Sheet, Strip, And Rolled Bar

B124/B124M Specification for Copper and Copper Alloy Forging Rod, Bar, and Shapes

B176 Specification for Copper-Alloy Die Castings

2.2 *ANSI Standards:*[3]

ANSI B18.1.1 Small Solid Rivets

ANSI B18.6.3 Slotted and Recessed Head Machine Screws and Machine Screw Nuts

ANSI B18.21.1 Lock Washers

ANSI B27.2 Plain Washers

2.3 *Other Documents:*

ABS Rules for Building and Classing Steel Vessels [4]

SSPC Specification 6 [5]

AWS D1.1 Welding Code[6]

## 3. Classification

3.1 Emergency gear lockers shall be classified in four types as follows:

3.1.1 *Type 1*—For stowage of one complete fireman's outfit, conforming to all requirements of all sections, figures, and details of this specification.

3.1.2 *Type 2*—For stowage of two complete firemen's outfits, conforming to all requirements of all sections, figures, and details of this specification.

3.1.3 *Type 3*—For stowage of one complete fireman's outfit, with locker dimensions in accordance with Figs. 2-4 (dimensions only), and conforming to the requirements of 3.2, 3.3, 4.1, 5.2.4, and Sections 6 and 7 inclusive.

3.1.4 *Type 4*—For stowage of two complete firemen's outfits, with locker dimensions in accordance with Figs. 2-4 (dimensions only), and conforming to the requirements of 3.2, 3.3, 4.1, 5.2.4, and Sections 6 and 7 inclusive.

3.2 One complete fireman's outfit shall consist of the following emergency gear (not included in this specification):

3.2.1 Self-contained breathing apparatus (24 by 14 by 11 in. (610 by 355 by 280 mm)).

3.2.2 Recharge air tank (7-in. (180-mm) diameter by 22 in. (560 mm) long).

3.2.3 Set protective clothing, including helmet, gloves, and boots.

[1] This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.03 on Outfitting and Deck Machinery.

Current edition approved April 1, 2022. Published April 2022. Originally approved in 1986. Last previous edition approved in 2017 as F1018 – 87a (2017). DOI: 10.1520/F1018-22.

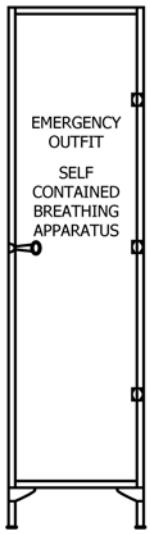
[2] For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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

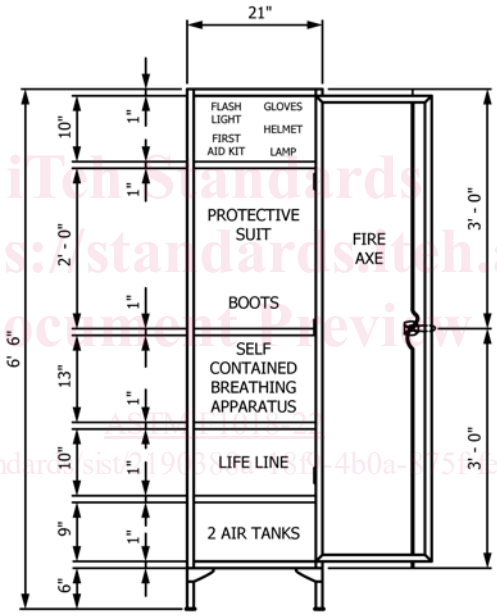
[4] Available from American Bureau of Shipping (ABS), ABS Plaza, 16855 Northchase Dr., Houston, TX 77060, http://www.eagle.org.

[5] Available from Society for Protective Coatings (SSPC), 800 Trumbull Dr., Pittsburgh, PA 15205, http://www.sspc.org.

[6] Available from American Welding Society (AWS), 8669 NW 36 St., #130, Miami, FL 33166-6672, http://www.aws.org.




ELEVATION - LOCKER TYPE




GENERAL ARRANGEMENT

NOTE 1—1 in. = 25.4 mm.

NOTE 2—Approximately 2-in. high red lettering typical.

**FIG. 1 Emergency Gear Stowage Locker—Type 1**



3.2.4 Lifeline (150 ft (45 m), 18 by 18 by 10 in. (455 by 455 by 255 mm)).

3.2.5 Three-cell, explosion-proof flashlight with spare cells.

3.2.6 Flame safety lamp.

3.2.7 Fire axe.

3.3 In addition to the equipment listed in 3.2, each locker shall contain space for the following (not part of this specification):

3.3.1 First-aid kit, (1), (10 by 10 by 7 in. (255 by 255 by 180 mm)).

3.3.2 Spare air tanks, as space allows (see Figs. 2-4).

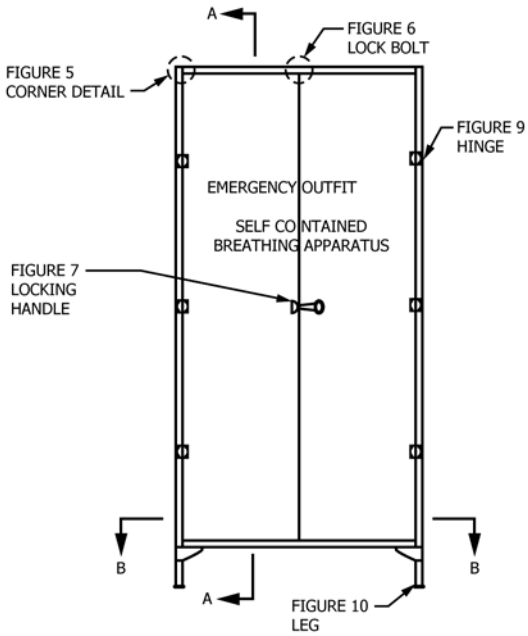
## 4. Ordering Information

4.1 Order using this ASTM designation, year of issue, locker type, and finish.

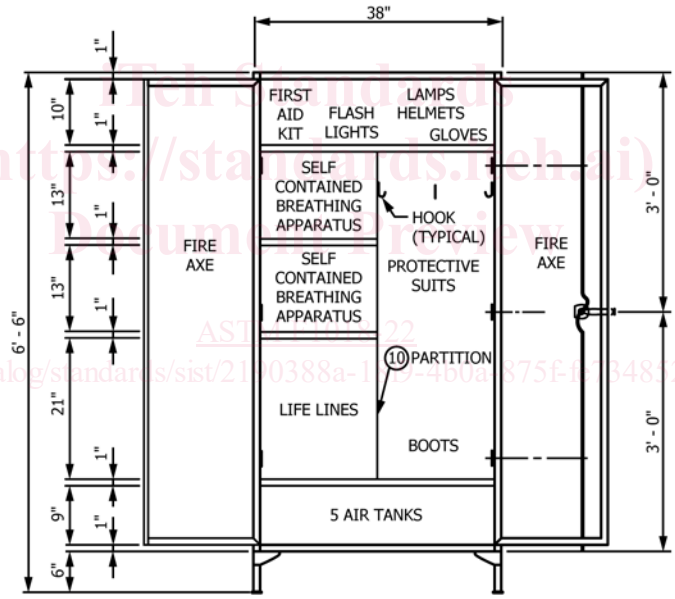
## 5. Materials and Manufacture

5.1 *Materials*—Materials shall be as specified in Table 1.

5.2 *Manufacture:*




ELEVATION - LOCKER TYPE 2, 3, 4




GENERAL ARRANGEMENT

NOTE 1—1 in. = 25.4 mm.

NOTE 2—Approximately 2-in. high red lettering typical.

**FIG. 2 Emergency Gear Stowage Locker—Types 2, 3, and 4**

5.2.1 Mandatory dimensions and construction details for Types 1 and 2 are as depicted in Figs. 1-9.

5.2.2 Mandatory dimensions for Types 3 and 4 are as shown in Fig. 2, Fig. 3, and Fig. 5, respectively, and applicable details of Sections "A-A'' and "B-B.'' Alternative construction details are permissible.

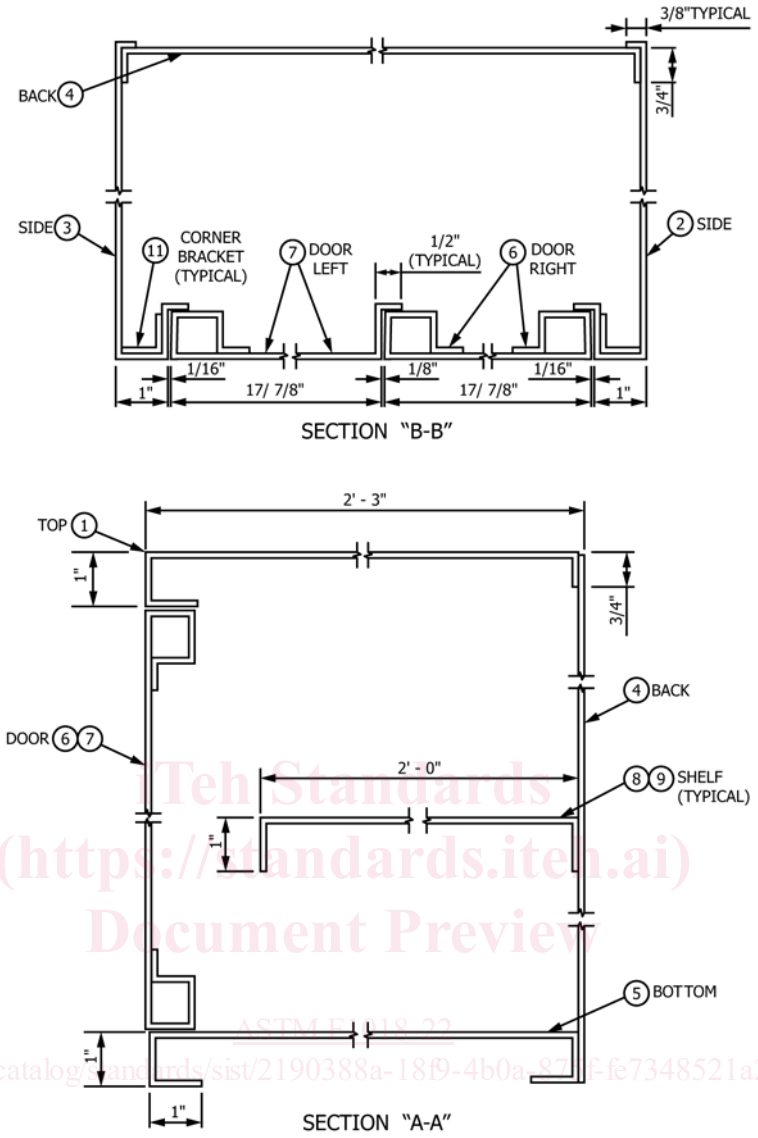
5.2.3 Construction details depicted in Figs. 4-9, while specifically referring to locker Type 2, shall be adapted to suit locker Type 1.

5.2.4 Welded construction, in accordance with ABS Rules for Building and Classing Steel Vessels or AWS D1.1 Structural Welding Code shall be used throughout, unless otherwise specified.

## 6. Dimensions and Tolerances

6.1 Dimensions are as indicated.

6.2 *Tolerance*—±1⁄16 in. (1.5 mm).






NOTE 1—1 in. = 25.4 mm.

**FIG. 3 Emergency Gear Stowage Locker—Types 2, 3, and 4 (Section "A-A")**

## 7. Workmanship, Finish, and Appearance

7.1 Entire assembly shall be free of weld spatter, slag, splinters, sharp edges, burrs, projections, and other defects that may be hazardous to personnel.

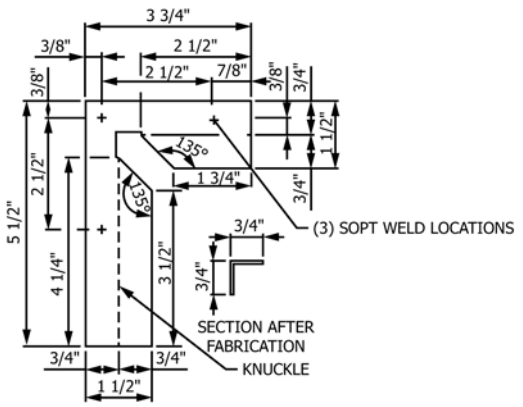
7.2 The locker shall be cleaned after assembly to a commercial finish in accordance with SSPC Specification 6.

7.3 Unless otherwise required by the ordering documents, the unit shall have the manufacturer's standard baked-on enamel finish.

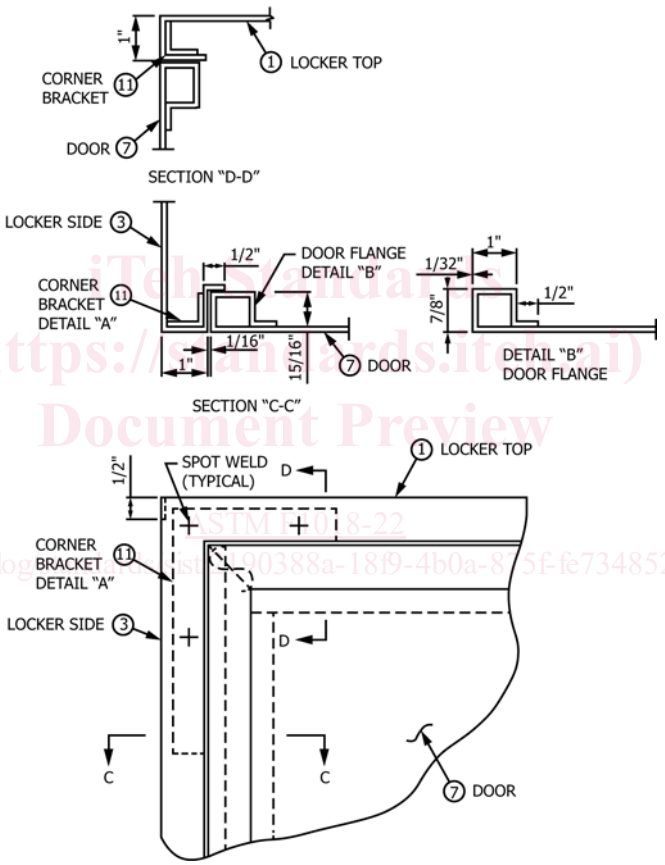
7.3.1 The color shall be specified in the ordering documents.

## 8. Keywords

8.1 emergency gear; fireman's locker; fireman's outfit; locker; steel locker; stowage locker




DETAIL "A"
CORNER BRACKET



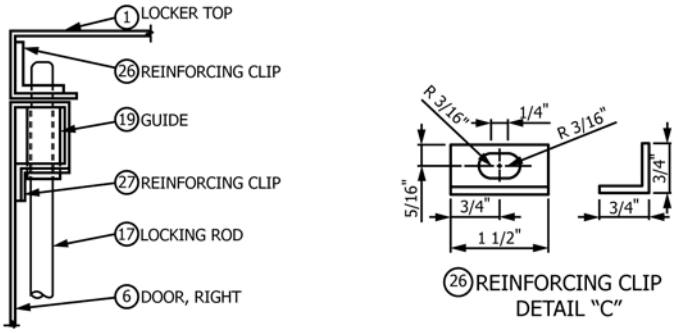

NOTE 1—1 in. = 25.4 mm.

**FIG. 4 Corner**

**TABLE 1 Parts List for Locker Type 2**

NOTE 1—1 in. = 25.4 mm.

| | Description | Item Number | Quantity | ASTM, ANSI Documents |
|---|---|---|---|---|
| Locker top | sheet, 0.053 in. (1.34 mm) × 39 in. long × 30 in. wide, carbon steel | 1 | 1 | A1008/A1008M |
| Locker side, right | sheet, 0.053 in. (1.34 mm) × 72 in. long × 29⅝ in. wide, carbon steel | 2 | 1 | A1008/A1008M |
| Locker side, left | sheet, 0.053 in. (1.34 mm) × 72 in. long × 29⅝ in. wide, carbon steel | 3 | 1 | A1008/A1008M |
| Locker back | sheet, 0.053 in. (1.34 mm) × 72 in. long × 39¼ in. wide, carbon steel | 4 | 1 | A1008/A1008M |
| Locker bottom | sheet, 0.053 in. (1.34 mm) × 42 in. long × 31 in. wide, carbon steel | 5 | 1 | A1008/A1008M |
| Door, right | sheet, 0.053 in. (1.34 mm) × 73 in. long × 25 in. wide, carbon steel | 6 | 1 | A1008/A1008M |
| Door, left | sheet, 0.053 in. (1.34 mm) × 73 in. long × 23 in. wide, carbon steel | 7 | 1 | A1008/A1008M |
| Shelf, full-width | sheet, 0.053 in. (1.34 mm) × 40 in. long × 26 in. wide, carbon steel | 8 | 2 | A1008/A1008M |
| Shelf, half-width | sheet, 0.053 in. (1.34 mm) × 26 in. long × 21 in. wide, carbon steel | 9 | 2 | A1008/A1008M |
| Partition, vertical | sheet, 0.053 in. (1.34 mm) × 52 in. long × 25 in. wide, carbon steel | 10 | 1 | A1008/A1008M |
| Corner bracket | sheet, 0.053 in. (1.34 mm) × 5½ in. long × 3¾ in. wide, carbon steel | 11 | 4 | A1008/A1008M |
| Lever handle, right door | cast brass | 12 | 1 | B176 (UNS C86500) |
| Keeper | brass | 13 | 1 | B124/B124M (UNS C67500) |
| Machine screw | oval-head, #10-24 UNC-2A × length to suit brass | 14 | 14 | ANSI B18.6.3<br>B124/B124M (UNS C67500) |
| Nut | hexagon machine, #10-24 UNC-2B<br>brass | 15 | 14 | ANSI B18.6.3<br>B124/B124M (UNS C67500) |
| Escutcheon | sheet, 0.053 in. (1.34 mm) × 2 in. long × 1⅜ in. wide, brass | 16 | 1 | B36/B36M |
| Locking rod, upper | round bar, 5/16-in. diameter × 37 in. long, carbon steel | 17 | 1 | A36/A36M |
| Lock rod, lower | round bar, 5/16-in. diameter × 37 in. long, carbon steel | 18 | 1 | A36/A36M |
| Guide, locking rod | tube, ½-in. outside diameter × 0.065-in. wall thickness × 1⅛-in. long, carbon steel | 19 | 2 | A513 |
| Latch | sheet, 0.093 in. (2.36 mm) × 3 11/16 in. long × 2 in. wide, carbon steel | 20 | 1 | A1008/A1008M |
| Reinforcing, latch | sheet, 0.053 in. (1.34 mm) × 5 in. long × 1¾ in. wide, carbon steel | 21 | 1 | A1008/A1008M |
| Lock washer | ⅜-in. nominal size, carbon steel | 22 | 1 | ANSI B18.21.1 |
| Rivet | brazier head, 5/32-in. diameter | 23 | 2 | ANSI B18.1.1 |
| Rivet | flathead, 3/16-in. diameter | 24 | 2 | ANSI B 18.1.1 |
| Insulation | wool felt, 3/64 in. thick × 2 in. long × 1⅜ in. wide | 25 | 1 | |
| Reinforcing clip | sheet, 0.093 in. (2.36 mm) × 1½ in. square, carbon steel | 26 | 1 | A1008/A1008M |
| Reinforcing clip | sheet, 0.053 in. (1.34 mm) × 1¼ in. square, carbon steel | 27 | 1 | A1008/A1008M |
| Cam | sheet, 0.093 in. (2.36 mm) × 1⅞ in. square, carbon steel | 28 | 1 | A1008/A1008M |
| Latch filler | sheet, 0.053 in. (1.34 mm) × 2⅞ in. long × 2½ in. wide, carbon steel | 29 | 1 | A1008/A1008M |
| Strap | sheet, 0.053 in. (1.34 mm) × 2½ in. long × 1 in. wide, carbon steel | 30 | 1 | A1008/A1008M |
| Nut | hexagon, ⅜-16 UNC-2B, carbon steel | 31 | 1 | A563 |
| Liner | sheet, 0.053 in. (1.34 mm) × 1½ in. long × 1⅛ in. wide, carbon steel | 32 | 1 | A1008/A1008M |
| Hinge | sheet, 0.053 in. (1.34 mm) × 3 in. long × 1½ in. wide, carbon steel<br>included: 3/16-in. diameter × 1½-in. long stainless steel pin | 33 | 6 | A1008/A1008M<br>A276 |
| Lock washer | 3/16-in. nominal size, 7/16-in. outside diameter, carbon steel | 34 | 12 | ANSI B18.21.1 |
| Liner, hinge | sheet, 0.053 in. (1.34 mm) × 2 in. long × ¾ in. wide, carbon steel | 35 | 6 | A1008/A1008M |
| Leg | angle, 1 × 1 × ⅛ × 6 in. long, carbon steel | 36 | 4 | A36/A36M |
| Foot pad | sheet, 0.123 in. (3.12 mm) × 1½ in. square, carbon steel | 37 | 4 | A1008/A1008M |
| Leg bracket | sheet, 0.123 in. (3.12 mm) × 8 in. long × 3 in. wide, carbon steel | 38 | 4 | A1008/A1008M |
| Leg reinforcement | sheet, 0.123 in. (3.12 mm) × 8 in. long × 1¾ in. wide—bend to form ⅞- × ⅞ -in. angle, carbon steel | 39 | 4 | A1008/A1008M |
| Machine screw | ¼-2OUNC-2A × ¾ in. long, carbon steel | 40 | 16 | ANSI B18.6.3 |
| Nut | hexagon machine, ¼-2OUNC-2B, carbon steel | 41 | 16 | ANSI B18.6.3 |
| Lock washer | ¼-in. nominal size, carbon steel | 42 | 16 | ANSI B18.21.1 |

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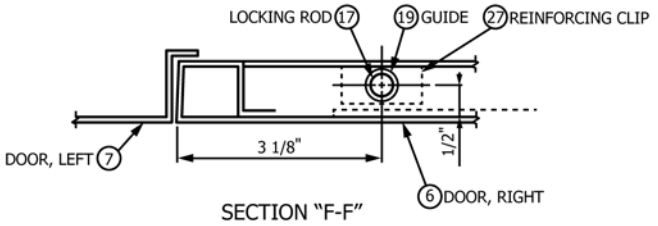


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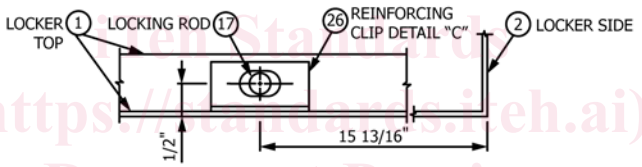


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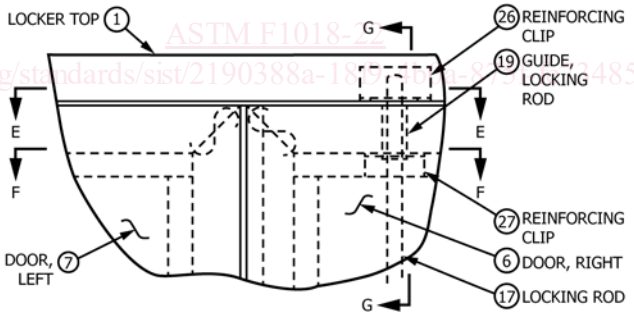


NOTE 1—1 in. = 25.4 mm.

**FIG. 5 Lock Bolt**