



Standard Specification for Chest of Drawers (Chiffonier), Steel, Marine¹

This standard is issued under the fixed designation F822; 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 construction of marine chests of drawers (chiffoniers) of steel construction to be used in staterooms and other spaces.

1.2 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.

1.3 *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

~~A366/A366M/A1008/A1008M~~ Specification for Commercial Steel (CS) Sheet, Carbon, (0.15 Maximum Percent) Cold-Rolled Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable (Withdrawn 2000)

D907 Terminology of Adhesives

F825 Specification for Drawers, Furniture, Marine, Steel

F826 Specification for Tops, Furniture, Marine, Steel

2.2 AISC Manual:³

AISC Wire and Sheet Metal Gauges Equivalent Thickness in Decimals of an Inch, U.S. Standard Gauge (USSG) for Uncoated Hot and Cold Rolled Sheets

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *chest of drawers (chiffonier)*—a chest of drawers with four drawers. All four drawers may be of the same size.

4. Ordering Information

4.1 Orders for items purchased under this specification shall include the following information:

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.

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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 Available from American Institute of Steel Construction (AISC), 130 E. Randolph St., Suite 2000, Chicago, IL 60601-6219, http://www.aisc.org.

4.1.1 Quantity.

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4.1.2 *Paint:*

4.1.2.1 *Color*—Purchaser shall pick from manufacturer’s samples or submit sample chip of color desired.

4.1.2.2 Manufacturer’s standard baked enamel will be furnished unless otherwise required and indicated by the purchaser.

4.1.3 *Options for Tops:*

4.1.3.1 Unless otherwise specified in the ordering documents, the top supplied by the furniture manufacturer may be, at his option, Type I, II, III, or IV in accordance with Specification **F826**.

4.1.3.2 Color or pattern of top covering material shall be specified.

4.1.4 *Options for Drawers:*

4.1.4.1 Padlock eyes shall be furnished on each drawer when specified in ordering documents. This security device is normally used in crew living spaces.

4.1.4.2 Drawer locks shall be furnished when specified in ordering documents. Master keying of drawer locks will not be provided unless required and defined by the ordering documents. Instead, each drawer lock will be keyed differently. See Specification **F825** for lock description.

4.1.4.3 A security panel between the two middle drawers to provide two secure two-drawer storage areas for two crew members is only furnished when specified in ordering documents. All four drawers in this type chest will be of same size.

4.1.5 If the total weight of the chest of drawers is required, it shall be requested by the purchaser.

5. Materials and Manufacture

5.1 For typical design, see **Fig. 1**.

5.2 Sheet metal shall be in accordance with Specification ~~A366/A366M~~ **A1008/A1008M**, commercial quality.

5.2.1 Minimum sheet metal thicknesses shall be:

5.2.1.1 Sides and front rails ~~18 USSG (0.0478 in. or 1.2 mm)~~ 0.042 in. (1.06 mm).

5.2.1.2 Back ~~20 USSG (0.0359 in. or 0.9 mm)~~ 0.032 in. (0.81 mm).

5.2.1.3 Base frame ~~16 USSG (0.0598 in. or 1.5 mm)~~ 0.053 in. (1.34 mm).

5.3 *Joining of Metal Components:*

5.3.1 Metal components shall be joined by welding or gluing with a structural adhesive as defined in Terminology **D907**. The back panel may be riveted to the case provided rivets are not visible after installation.

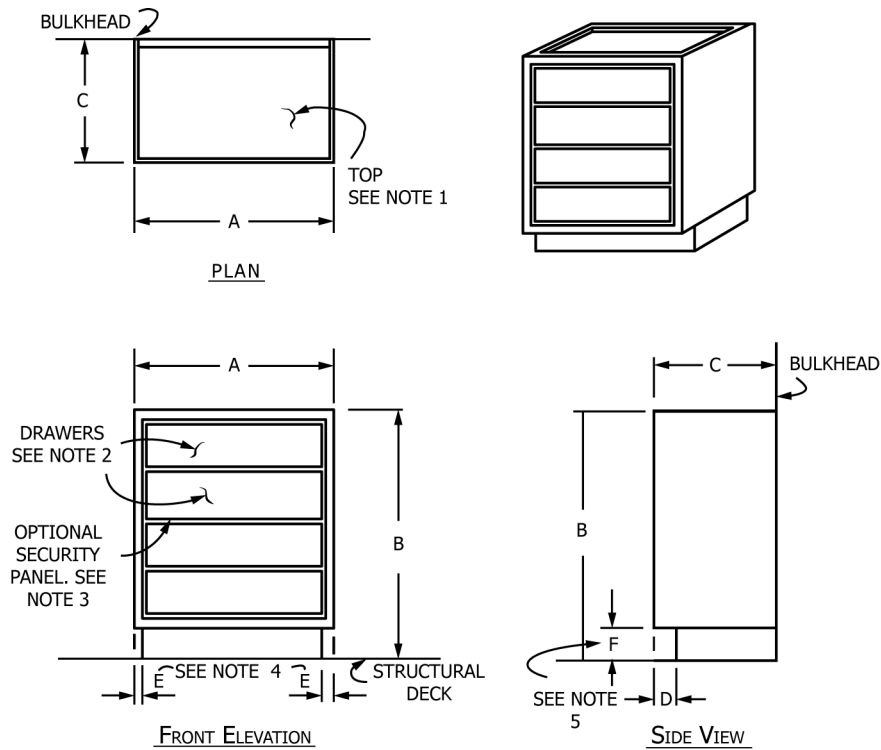
5.3.2 Joining shall be adequate to prevent racking of chest during handling.

5.3.3 Spotwelds shall be spaced approximately 3 in. (76 mm) on centers.

5.3.4 Visible spotwelds, higher than the general surface of the adjacent metal, shall be ground flush.

5.3.5 Visible spotweld depressions shall be spot filled and sanded flush.

5.4 Side panels shall be suitably stiffened to prevent buckling or oil-canning.



NOTE 1—For description of Type I, II, III, and IV tops, see Specification F826.

NOTE 2—For description of drawers, see Specification F825.

NOTE 3—For optional security panel, see 4.1.4.3.

NOTE 4—If chest of drawers is located in a corner, Dimension “E” next to this adjacent wall shall be 0 in. (0 mm). In all other cases, the minimum value for Dimension “E” shall be ¾ in. (19.05 mm).

NOTE 5—The minimum value for Dimension “F” shall be 4 in. (102 mm).

FIG. 1 Chest of Drawers

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5.5 Sound deadening shall be vermin proof and applied to back and inner face of sides of chest. Location and thickness of applied sound deadener shall be as required to sound-deaden chest.

5.6 Top shall be manufactured in accordance with Specification F826.

5.7 Drawers shall be manufactured in accordance with Specification F825.

5.8 A furniture base shall be provided suitable for securing chest of drawers to deck.

6. Performance Requirements

6.1 The completed chest of drawers, with the top and drawers installed, shall satisfy the corresponding performance requirements outlined in Specifications F825 and F826.

7. Dimensions

7.1 For dimensions, see Table 1.

8. Workmanship, Finish, and Quality Assurance

8.1 All workmanship and material shall be of specified quality in keeping with the best commercial marine practice so as to produce each item suitable for its intended use.