



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

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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.

2. Referenced Documents

2.1 *ASTM Standards*:²

A366/A366M Specification for Commercial Steel (CS) Sheet, Carbon, (0.15 Maximum Percent) Cold-Rolled (Withdrawn 2000)³

D907 Terminology of Adhesives

F825 Specification for Drawers, Furniture, Marine, Steel

F826 Specification for Tops, Furniture, Marine, Steel

2.2 *AISC Manual*:⁴

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:

4.1.1 Quantity.

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

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, commercial quality.

5.2.1 Minimum sheet metal thicknesses shall be:

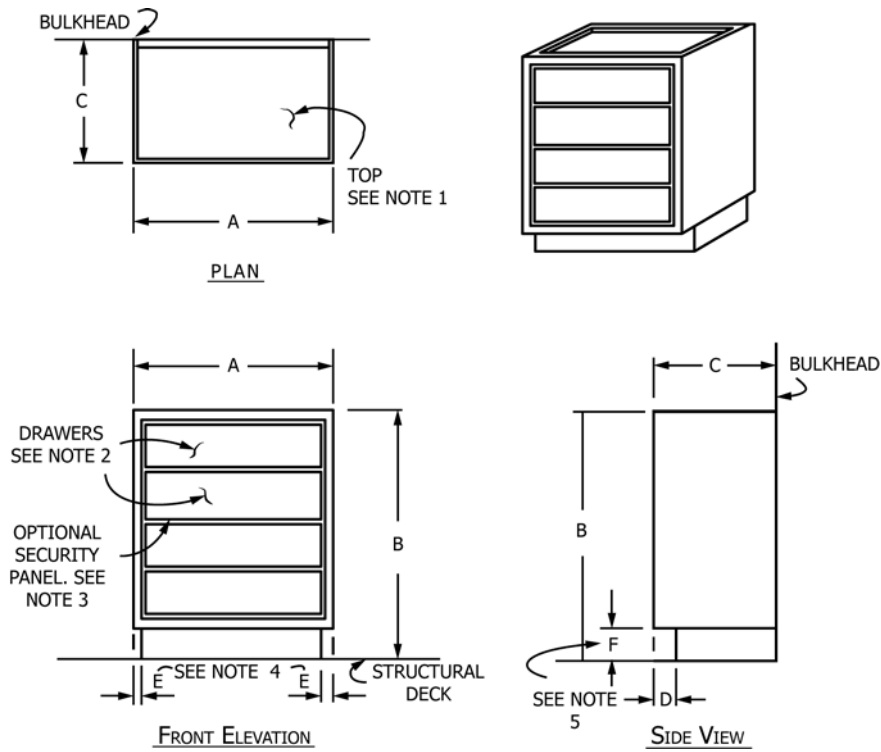
5.2.1.1 Sides and front rails 18 USSG (0.0478 in. or 1.2 mm).

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

5.2.1.3 Base frame 16 USSG (0.0598 in. or 1.5 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.



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

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.

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.

8.2 All exposed burrs, raw or sharp edges which might be injurious to personnel shall be removed.

TABLE 1 Chest of Drawers Dimensions

Designation		in.		mm	
		Dimension	Tolerance	Dimension	Tolerance
Width	A	36	1/16	914	2
Height	B	37	1/16	940	2
Depth	C	21	1/16	533	2
Toe	D	3	1/16	76	2
Space, Front					
Toe	E ^A	4 max	1/16	102 max	2
Space, Side					
Base Height	F ^B	4¾ max	1/16	121 max	2

^A 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 mm).

^B The minimum value for Dimension F shall be 4 in. (102 mm).

8.3 Depressions considered unacceptable for products end use shall be spot filled and sanded smooth.

8.4 *Finish:*

8.4.1 All steel surfaces, unless corrosion resistant or with a corrosion-resistant plating, shall be painted so as to prevent corrosion.

8.4.2 Unless otherwise required by the ordering documents, all parts normally visible on the completed unit shall have the manufacturer's standard baked-on enamel finish.

8.4.3 Color is to be specified in the ordering documents.

9. Inspection and Certification

9.1 Manufacturer shall inspect and certify that the item of furniture complies with the furniture specification and the loading requirements as defined in Section 6.

10. Packaging and Package Marking

10.1 Each item shall be marked in accordance with the purchase order.

10.2 Packaging shall be provided and shall be acceptable to a common carrier.

11. Keywords

11.1 chest of drawers; chiffoniers; marine chest of drawers; marine furniture

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