

INCH-POUND

MIL-PRF-32038

11 March 1999

SUPERSEDING

(See 6.4)

PERFORMANCE SPECIFICATION

SHIPBOARD FURNITURE, FIXTURES, FITTINGS, AND ACCESSORIES,
GENERAL SPECIFICATION FOR

This specification is approved for use by the Naval Sea Systems Command, Department of the Navy and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers requirements for furniture, fixtures, fittings, and accessories for use aboard U.S. Navy ships. The term furnishings used herein applies to items covered by this specification.

2. APPLICABLE DOCUMENTS

2.1 General. Documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents cited in other sections for this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet specified requirement documents cited in sections 3 and 4 of this specification, whether or not they are listed.

2.1.1 Specification sheets. Specification sheets are listed in Supplement 1.

2.2 Government documents.

2.2.1 Specifications and standards. The following specifications and standards form a part of this document to the extent specified herein. Unless otherwise specified, the issue of these documents are those listed in the Department of Defense Index of Specification and Standards (DoDISS), cited in the solicitation (see 6.2).

SPECIFICATIONS

DEPARTMENT OF DEFENSE

MIL-S-901 - Shock Tests, H.I. (High-Impact); Shipboard Machinery, Equipment and Systems, Requirements for

Beneficial comments (recommendations, additions, and deletions) and any pertinent data, which may improve this document, should be addressed to: Commander, Naval Sea Systems Command, 2531 Jefferson Davis Highway, Arlington, VA 22242-5160.

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STANDARDS

FEDERAL

FED-STD-595 - Colors Used In Government Procurement

DEPARTMENT OF DEFENSE

MIL-STD-1623 - Fire Performance Requirements and Approved Specifications for Interior Finish Materials and Furnishings (Naval Shipboard Use)

(Unless otherwise specified, copies of the above specifications and standards are available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.3 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issue of documents which are DoD adopted are those listed in the issue of the DoDISS cited in the solicitation. Unless otherwise specified, the issue of documents not listed in the DoDISS is the issue of the documents cited in the solicitation (see 6.2).

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A167	-	Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip
ASTM A480	-	General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip
ASTM F1166	-	Standard Practice for Human Engineering Design for Marine Systems, Equipment, and Facilities
ASTM F1178	-	Specification for Enameling System, Baking, Metal Joiner Work, and Furniture

(Applications for copies should be addressed to the American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.)

2.4 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Specification sheets. The individual furnishing requirements shall be as specified herein and in accordance with the applicable specification sheet. Isometrics shown on specification sheets are pictorial and are intended to illustrate requirements, configurations, and features of the furnishing. Specific details and style of hardware are subject to manufacturer's development. In the event of a conflict between requirements of this specification and the specification sheet, the specification sheet takes precedence.

3.2 First article inspection. When specified (see 6.2), a sample furnishing shall be subjected to first article inspection in accordance with 4.1.1.

3.3 Materials. Materials shall meet the fire performance requirements of MIL-STD-1623.

3.4 Design.

3.4.1 General requirements. Furnishings shall meet requirements of this specification and the applicable specification sheet. Furnishings shall pass through a 660 mm (26 in) by 1676 mm (66 in) opening that has 203 mm (8 in)

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radius corners. Furnishings for submarines shall pass through a 635 mm (25 in) diameter opening. If a furnishing cannot pass through the aforementioned openings, the furnishing shall be capable of disassembly to allow passage through the openings. Where vertical supports are attached between decks that are subject to deck deflection, the tops of those supports shall be provided with slip joints. Legs shall be adjustable to conform to irregular decks and for leveling the furnishing. Furnishings shall preclude the harboring of vermin in inaccessible locations. Sheet metal shall be suitably stiffened to preclude buckling and oil canning.

3.4.2 Subbases. Deck-mounted furnishings without legs shall be installed on an enclosed, splashproof subbase assembly with suitable means for attachment to the deck. The subbase assembly shall be configured to prevent inaccessible voids along the back and sides of the furnishing. The subbase assembly shall provide a covering for the deck attachment and shall be adjustable for slope and irregularities in the deck. Type, size, and configuration of the subbase assembly shall be specified by the procuring activity (see 6.2).

3.4.3 Joining of parts and subassemblies. Welding shall increase strength and rigidity of furnishings and shall not be used as a temporary means of fastening. Rivets shall not impair the appearance or function of the item. Fasteners used for mounting hardware or bolting subassemblies shall not loosen or become free when subjected to shipboard vibration. Adhesive bonding shall be in accordance with manufacturer's instructions.

3.4.4 Finish. Furnishings to be painted with baking enamel shall be cleaned, pretreated, and painted in accordance with ASTM F1178. Furnishings finished with epoxy powder shall be finished in accordance with MIL-PRF-24712, Type 1, Class 1 for interior located furnishings, and Type 1, Class 3 for exterior located furnishings. Except for stainless steel, glass, high pressure plastic laminate (HPPL), and bronze, accessible parts and surfaces of furnishings shall be finished before final assembly. Stainless steel furnishings shall not be painted. Stainless steel furnishings shall be provided with a number 4 finish in accordance with ASTM A480. Exposed hardware items of brass shall be satin-finished nickel-plated. Aluminum hardware shall be anodized clear. Hardware fasteners shall match hardware in finish. Stainless steel shall be in accordance with ASTM A167, type 304.

3.4.4.1 Color. Unless otherwise specified (see 6.2), the color of furnishings shall be number 26586 (beige) in accordance with FED-STD-595.

3.4.4.2 HPPL color. Unless otherwise specified (see 6.2), the HPPL color for desk tops, computer workstation tops, counter tops, study carrel tops, and tops of tables located within libraries, shall be a light to medium shade to minimize the brightness contrast between the tops, computer video displays, and the printed or writing materials used on them. Unless otherwise specified (see 6.2), the HPPL color for table tops located within messrooms, lounges, recreation spaces, and living spaces shall be saturated colors, prominent woodgrain, or patterns.

3.4.5 Locks, keys, and latches.

3.4.5.1 When specified (see 6.2), locks shall be provided.

3.4.5.2 Three keys shall be provided for furnishings fitted with locks. When a furnishing has two or more locks keyed differently, three keys shall be provided with each key change.

3.4.5.3 Latches shall be the positive type and shall be provided to prevent doors and drawers from accidentally opening during ship motion. Devices such as spring, bullet, magnetic, and bayonet-type latching devices shall not be used.

3.4.6 Doors. Doors shall be provided with a positive latching system. Doors shall be provided with a lever handle and keeper that will accept a padlock. The lever handle and keeper shall be vertically centered on locker doors.

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Doors shall be capable of opening not less than 90°. Doors, 610 mm (24 in) wide by 762 mm (30 in) long and larger, shall be provided with stay arms to prevent the door from opening greater than 90° and retain the door in the 90° open position.

3.4.6.1 Double doors shall have an astragal attached to the interior of the opposing hand door to prevent objects from exiting or entering between doors and to ensure secure closure by one door only.

3.4.6.2 Louvers shall be provided in doors as shown on the specification sheets. Louvers shall permit airflow through the furnishing. Louvers shall be centered horizontally on each door. Louvers shall not protrude greater than 8 mm (5/16 in) past the furnishings envelope dimensions to prevent dust, or water from entering into the unit from above.

3.4.7 Cardholders. A cardholder that accommodates a 41mm by 79 mm (1-5/8 in by 3-1/8 in) card shall be provided as shown on specification sheets.

3.4.8 Drawers. Drawer fronts shall be fitted in drawer recesses with a space of approximately 2 mm (1/16 in) equidistant between stationary members and the periphery of the drawer fronts. Drawers shall be provided with a latch-activating device for pulling the drawer open and a positive means of latching the drawer closed. The device that activates the latch mechanism shall be located to permit opening of the drawer with one hand.

3.4.8.1 One drawer pull and a latch-activating device shall be provided for drawers 762 mm (30 in) wide and smaller. Drawer pulls shall be centered vertically and horizontally on the drawer face.

3.4.8.2 Two drawer pulls and a latch-activating device shall be provided for drawers greater than 762 mm (30 in) wide. Drawer pulls shall be vertically centered on the drawer face and not greater than 152 mm (6 in) from the face ends.

3.4.9 Drawer runners. Drawer runners shall be the full extension type. Runners shall be provided with rubber-cushioned in and out stops, and shall be fitted with a quick-acting front trigger release drawer disconnect. The depth of the unit in which they are installed minus 51 mm (2 in) shall be the length of runner.

3.4.10 Marking. Furnishings shall be provided with a label plate located as required by the specification sheets. The label plate shall be permanently marked on a non-corrosive material, with a minimum of 3 mm (1/8 in) high letters and inscribed with the following information:

- a. Manufacturer's identification
- b. Contract or order number and date of manufacture
- c. The specification sheet number; and Type, Size, Style, and Class data

3.5 Performance characteristics.

3.5.1 Environmental conditions. Furnishing shall be operable at local temperatures between 0 °C (32 °F) and 50 °C (122 °F) at a relative humidity not greater than 95 percent.

3.5.2 Shock. When specified (see 6.2), furnishings shall meet the shock requirements of MIL-S-901.

3.5.3 Vibration. Movable components such as doors, drawers, sliding shelves, drop leaves, hinged mechanisms and latches shall operate freely. They shall be sufficiently snug to prevent rattle of parts and be free from galling during ship vibration.

3.5.4 Motion. Movable components, such as doors, drawers, sliding shelves, drop leaves, hinged mechanisms and latches shall operate as intended at the

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following combinations of permanent and cyclic ship inclination in degrees displacement from horizontal:

- a. List of 15° and trim of 5°
- b. List of 15° and symmetrical pitching of 10°
- c. Symmetrical rolling of 45° and trim of 5°
- d. Symmetrical rolling of 45° and symmetrical pitching of 10°

3.5.5 Physical characteristics. Physical characteristics, such as size, component configuration, and weight shall be in accordance with the specification sheet and as specified below.

3.5.5.1 The dimensional tolerance of furnishings shall be not greater than 2 mm (1/16 in) nor less than 2 mm (1/16 in) of the dimensions shown on the specification sheets.

3.5.5.2 The weight of furnishings shall be not greater than 105 percent of the weight shown on the specification sheets.

3.5.6 Appearance. Furnishings shall be clean and free of defects that affect appearance, such as, burrs, slivers, sharp edges, rough tool or grind marks, pitting, staining, blistering, flaking, peeling, or discoloration of the exposed surfaces. Furnishings shall be free of film, foreign matter embedded in the finish, a painted surface that has sags, runs, fractured, buckled, bent, and punctured or malformed parts.

3.5.7 Top and edge protection. Unless otherwise specified (see 6.2), tops of furnishings, such as desks, computer workstations, counters, study carrels, and tables shall be covered with HPPL. HPPL grain pattern shall be installed parallel to the front of the furnishings. Top covering shall be thoroughly bonded to the substrate, free from blisters and air bubbles. A means shall be provided to protect the edge of tops from delaminating and chipping.

3.5.8 Sides and backs. Sides and backs of furnishings shall be free of projections.

3.6 Load requirements.

3.6.1 Body construction. The body of furnishings shall support a vertical load of 45 kg (100 lb) applied to the upper corner of a tilted unit.

3.6.2 Legs. Legs shall support a vertical load of 68 kg (150 lb) applied to the upper corner of a tilted furnishing.

3.6.3 Tops. Tops of lockers and cabinets shall support a vertical load of 68 kg (150 lb). Tops of desks, tables, and counters shall support a vertical load of 136 kg (300 lb).

3.6.4 Subbases. Furnishings secured to a subbase shall support a lateral force of 890 N (200 lbf) applied to the upper front portion of the furnishings.

3.6.5 Drawers. File drawers shall support a vertical load of 68 kg (150 lb). Stowage aid drawers shall support a vertical load of 181 kg (400 lb). Drawers, other than file and stowage aid drawers, shall support a vertical load of 39 kg (85 lb).

3.6.6 Drawer latches. Drawers shall remain latched when loaded with a load of 23 kg (50 lb) and tilted 30 degrees from the vertical with the drawers facing down.

3.6.7 Drop leaf and sliding shelves. Drop leaf and sliding shelves, including sliding keyboard shelves, shall support a vertical load of 91 kg (200 lb).

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3.6.8 Doors. Doors with a vertical length of not greater than 914 mm (36 in) shall support a vertical load of 45 kg (100 lb) applied to the latch edge of the door. Doors with a vertical length of greater than 914 mm (36 in) shall support a vertical load of 68 kg (150 lb) applied to the latch edge of the door.

3.6.9 Door latches. Doors shall remain latched when the door pull is subjected to a horizontal pull force of 222 N (50 lbf).

3.7 Ergonomics and human engineering. The design and manufacture of furnishings shall be in accordance with ASTM F1166, and shall be suitable for use by male and female personnel from the 5th to the 95th percentile.

4. VERIFICATION

4.1 Classification of inspections. The inspection requirements specified herein are classified as follows.

4.1.1 First article inspection. When specified (see 6.2), first article inspection and approval shall be accomplished in accordance with the requirements of Table I.

4.1.2 Conformance inspection. When specified (see 6.2), additional inspections, after the first article inspection shall be performed to verify continued conformance to the specification requirements.

4.2 Product conformance. The contractor shall certify that the furnishings provided conform to the requirements of this specification, and the applicable specification sheet. The Government reserves the right to require proof of such compliance.

4.3 General inspection. Furnishings shall be subjected to a thorough inspection to ascertain that the material, access, knockdown-constructed assembly, deck deflection fittings, legs, subbase, joining of parts or sub assemblies, finish, color, locks, keys, latches, doors, louvers, cardholder drawers, drawer runners, and markings are in accordance with this specification and the applicable specification sheet.

TABLE I. Inspections and tests

Inspection	Requirement paragraphs	Test procedure paragraphs
General inspection	3.3 and 3.4	4.3
Environmental conditions	3.5.1	4.3.1
Shock	3.5.2	4.3.2
Vibrations	3.5.3	4.3.3
Motions	3.5.4	4.3.4
Physical characteristics	3.5.5	4.3.5
Appearance	3.5.6	4.3.6
Top and edge protection	3.5.7	4.3.7
Sides and backs	3.5.8	4.3.8
Body construction	3.6.1	4.3.9.1
Legs	3.6.2	4.3.9.2
Tops	3.6.3	4.3.9.3
Subbases	3.6.4	4.3.9.4
Drawers	3.6.5	4.3.9.5
Drawer latches	3.6.6	4.3.9.6
Drop leaf and sliding shelves	3.6.7	4.3.9.7
Doors	3.6.8	4.3.9.8
Door latches	3.6.9	4.3.9.9

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4.3.1 Environmental conditions. Furnishings shall be inspected to ensure compliance with the temperature and relative humidity requirements.

4.3.2 Shock. When specified (see 6.2), shock requirements shall be verified in accordance with MIL-S-901.

4.3.3 Vibration. Furnishings shall be inspected to ensure movable components operate freely, fit snugly to prevent rattle, and are free from galling.

4.3.4 Motion. Movable components shall be tested by the application of a static equivalent load. Furnishings shall be mounted at the permanent angles of list and trim specified in 3.5.4, along each axis in trim to simulate mounting longitudinally and athwartships. A static load shall then be applied to the movable components equal to the weight of the component and its contents to simulate the dynamic load due to rolling and equal to one half the weight of the component and its contents to simulate the dynamic load due to pitching as specified in 3.5.4. The load shall be applied to the movable components in the appropriate directions, parallel to the base of the furnishing, for a duration not less than 5 minutes. Each of the combinations of permanent and cyclic ship inclinations of 3.5.4 shall be tested.

4.3.5 Physical characteristics. Furnishings shall be inspected to ensure that the physical characteristics such as size, configuration, and weight are in accordance with the requirements of the applicable specification sheet.

4.3.6 Appearance. Furnishings shall be visually inspected to ensure that there are no defects that affect appearance.

4.3.7 Top and edge protection. Furnishings shall be inspected to ensure that the top covering is thoroughly bonded to the substrate and free from blisters and air bubbles, and to ensure that methods for protecting the edges are provided.

4.3.8 Sides and backs. Furnishings shall be visually inspected to ensure that the sides and backs are free of projections.

4.3.9 Load test procedures.

4.3.9.1 Body construction. The load specified in 3.6.1 shall be applied to the upper corner of a tilted unit as shown on Figure 1, Test A. The unit shall be tilted such that the opposite upper and lower corners are diagonal from each other and in line with the load. If provided, doors shall be open or removed, and drawers and sliding shelves shall be removed. The load shall remain in this position for not less than 5 minutes. There shall be no indication of permanent set after removal of the load, and doors, drawers and sliding shelves shall operate freely and latch as intended.

4.3.9.2 Legs. The load specified in 3.6.2 shall be applied to the upper corner of a tilted unit as shown on Figure 1, Test A. The unit shall be tilted such that the top corner and the opposite legs are diagonal. If provided, doors shall be open or removed, and drawers and sliding shelves shall be removed. The load shall remain in this position for not less than 5 minutes. There shall be no permanent set or distortion after removal of the load.

4.3.9.3 Tops. The loads specified in 3.6.3 shall be applied to the top as shown on Figure 1, Test B. If provided, doors shall remain open or be removed and drawers and sliding shelves shall be removed. The load shall remain on the top of the unit for not less than 5 minutes. There shall be no indication of permanent set after removal of the load, and doors, drawers, and sliding shelves shall operate freely and latch as intended.

4.3.9.4 Subbases. The force specified in 3.6.4 shall be applied to the upper front portion of the unit as shown on Figure 2, Test C. If provided, doors shall be removed or opened and drawers and sliding shelves shall be removed.

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The force shall remain in this position for not less than 5 minutes. There shall be no indication of distortion after removal of the force, and doors, drawers, and sliding shelves shall operate as intended.

4.3.9.5 Drawers. The loads specified in 3.6.5 shall be applied to the front edge of the drawer as shown on Figure 3, Tests E and F. Test E applies to file and stowage aid drawers. Test F applies to drawers other than file and stowage aid drawers. The load shall be applied to the front edge of the drawer. The load shall remain on the drawer for not less than 5 minutes. There shall be no indication of permanent set after removal of the load, and the drawers shall operate freely and latch as intended.

4.3.9.6 Drawer latches. The load specified in 3.6.6 shall be applied and the unit tilted, with the drawers facing down, as shown on Figure 2, Test D. The drawers shall remain latched for not less than 5 minutes.

4.3.9.7 Drop leaf and sliding shelves. The load specified in 3.6.7 shall be applied as shown on Figure 4, Test G. The load shall remain in this position for not less than 5 minutes. There shall be no indication of permanent set after removal of the load, and the drop leaf and sliding shelf shall operate freely and close as intended.

4.3.9.8 Doors. The load specified in 3.6.8 shall be applied to the latch edge of the door as shown on Figure 4, Test H. The load shall remain on the door for not less than 5 minutes. There shall be no indication of permanent set after removal of the load, and the doors shall operate freely and latch as intended.

4.3.9.9 Door latches. The horizontal pull force specified in 3.6.9 shall be applied to the door pull as shown on Figure 5, Test J. The furnishings shall be clamped to the floor in an upright position.

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified (see 6.2). When actual packaging of material is to be performed by DoD personnel, these personnel need to contact the responsible packaging activity to ascertain requisite packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activity within the Military Department or Defense Agency, or within the Military Department's System Command. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES

(This section contains information of a general and explanatory nature, which may be helpful, but is not mandatory.)

6.1 Intended use. The furnishings covered by this specification and the associated specification sheets are intended for use aboard U.S. Navy ships.

6.2 Acquisition requirements. Where applicable, acquisition documents should specify the following:

- a. Title, number, and date of this specification
- b. Title, number, date, type, style and class data of the specification sheet
- c. Options as noted on specification sheets
- d. Lock, latch, and key requirements
- e. Color
- f. Subbase requirements
- g. Installation procedures
- h. Shock requirements
- i. First article inspection

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- j. Written certification indicating conformance to the requirements
- k. Illustration, and associated data requirements for knockdown constructed assemblies, if required
- l. Packaging
- m. The issue of DoDISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.3)

6.3 Data requirements.

6.3.1 When specified (see 6.2), illustrations should be provided detailing the installation methods of furnishings. Illustrations should be provided showing the assembly of knockdown constructed furnishings.

6.3.2 When specified (see 6.2), written certification should be provided indicating conformance to the requirements.

6.4 Supersession data. This specification supersedes; MIL-F-902 - Furniture, Shipboard, Aluminum, General Specification for; MIL-F-243 - Furniture Shipboard, Steel, General Specification for; and applicable NAVSEA Hull Type and Standard Drawings.

6.5 Existing drawings. Existing NAVSEA Hull Type and Standard Drawings may be used for guidance in manufacturing shipboard furnishings identified on specification sheets.

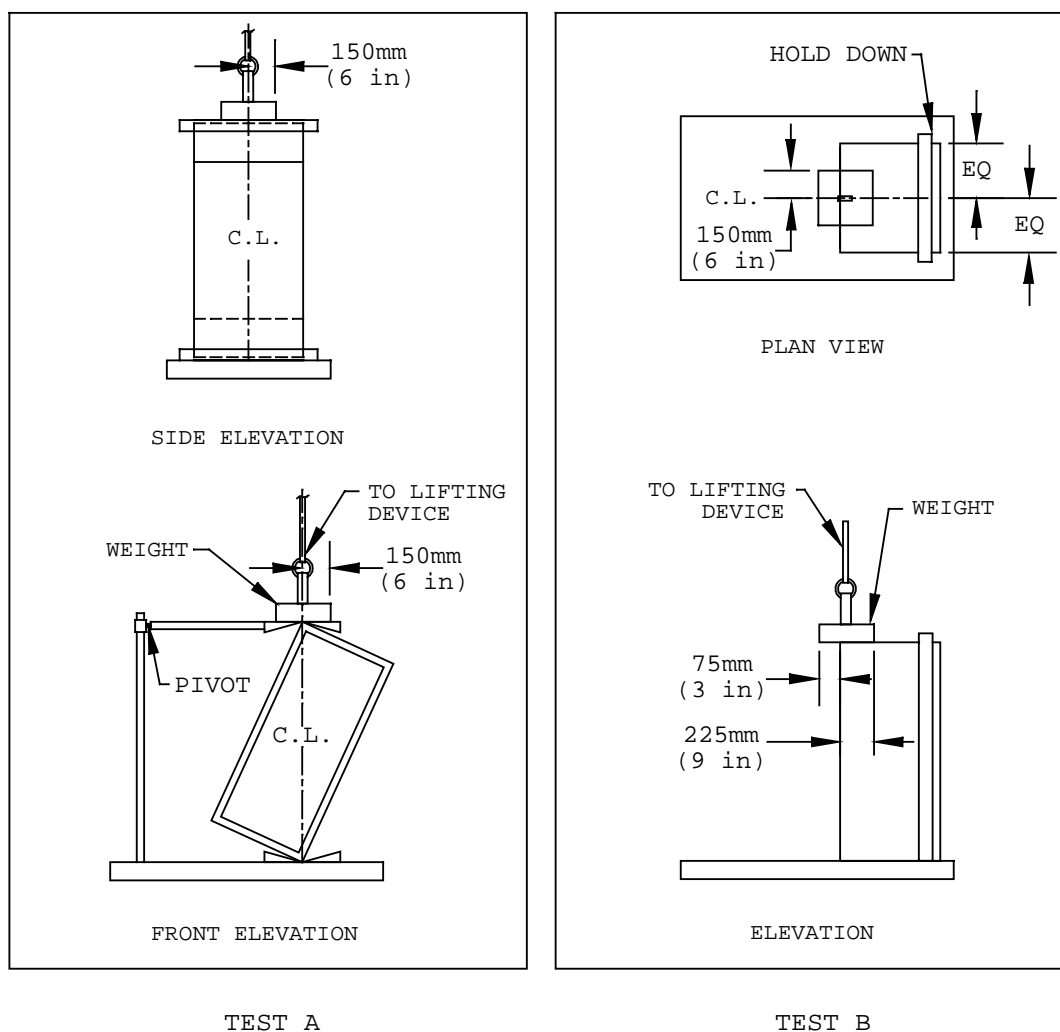
6.6 Furniture construction details. Furniture Construction Details, Drawing, NAVSEA No. 803-5959310 illustrates design features, construction details, and material requirements for manufacturing shipboard furnishings.

6.7 Materials. The materials specified in the Habitability Materials List, NAVSEA ltr 9640 Ser 03M1/245m dated 6 Nov 1996, are acceptable.

6.8 Subject term (keyword) listing.

Barber Shop
 Bed
 Berth
 Bin
 Bookcase
 Bookrack
 Bulletin Board
 Cabinet
 Chair
 Desk
 Dresser
 Lavatory
 Locker
 Mess Booth
 Mirror
 Post Office
 Rack
 Religious
 Shelving
 Showcase
 Table
 Transom

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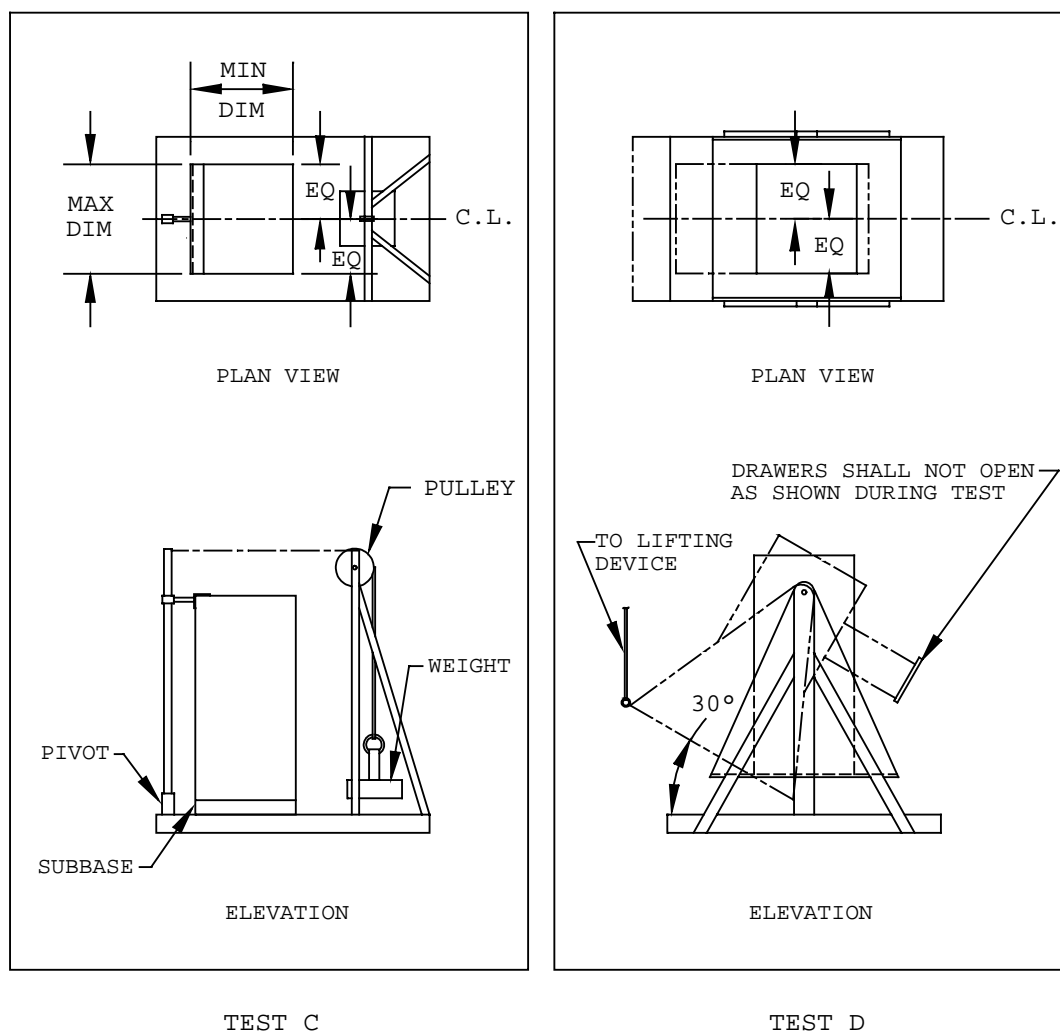


Size of the weight at base should be 305 x 305 mm (12 x 12 inches).

TEST		BODY, TOP, AND LEGS	TEST WEIGHT kg (lb)
A	1	Body of furnishings	45 (100)
	2	Legs and furnishings	45 (100)
B	1	Locker and cabinet tops	68 (150)
	2	Desk, table and counter tops	136 (300)

FIGURE 1. Load test procedures

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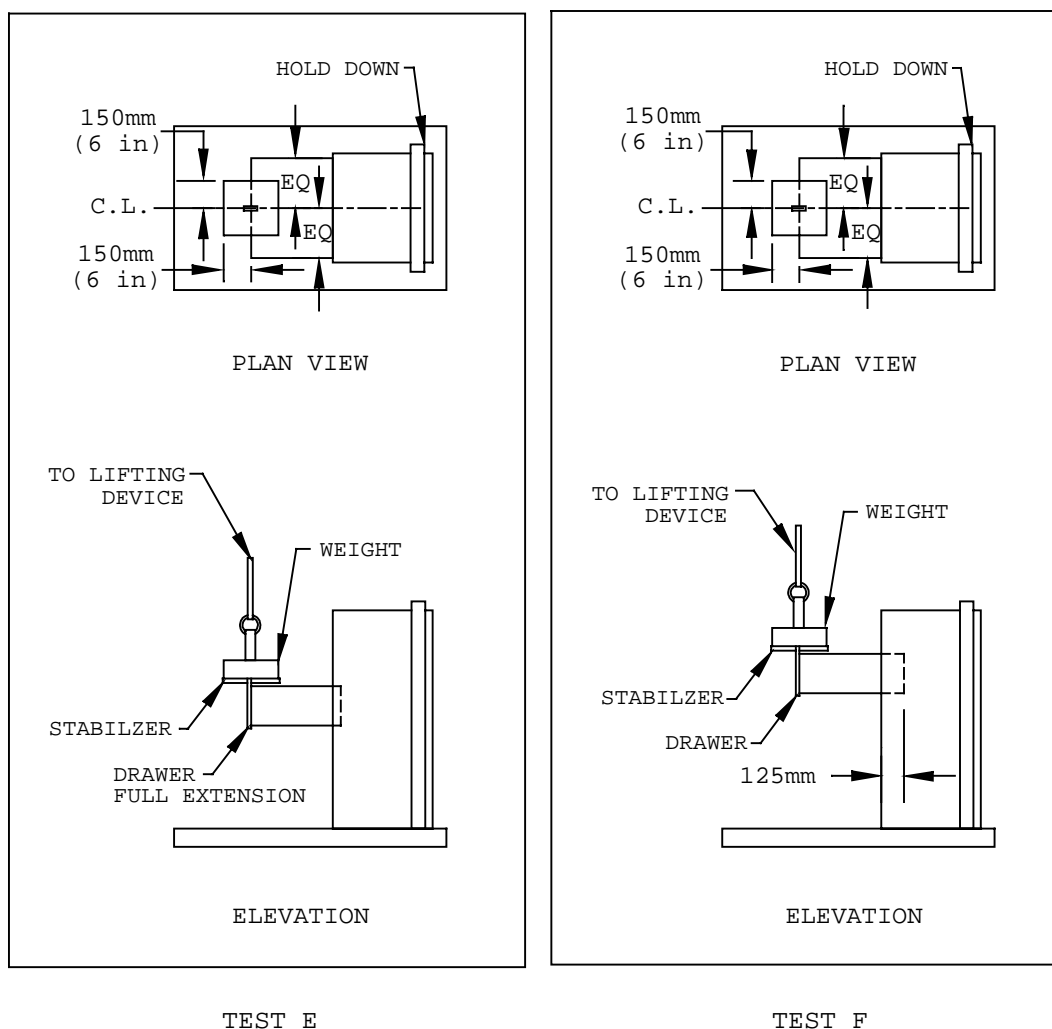


Size of the weight at base should be 305 x 305 mm (12 x 12 inches).

TEST		SUBBASES AND DRAWER LATCHES	TEST WEIGHT	
			N (lbf)	kg (lb)
C	1	Deck mounted furnishings provided with a subbase	890 (200)	—
D	1	Drawer latches	—	23 (50)

FIGURE 2. Load test procedures

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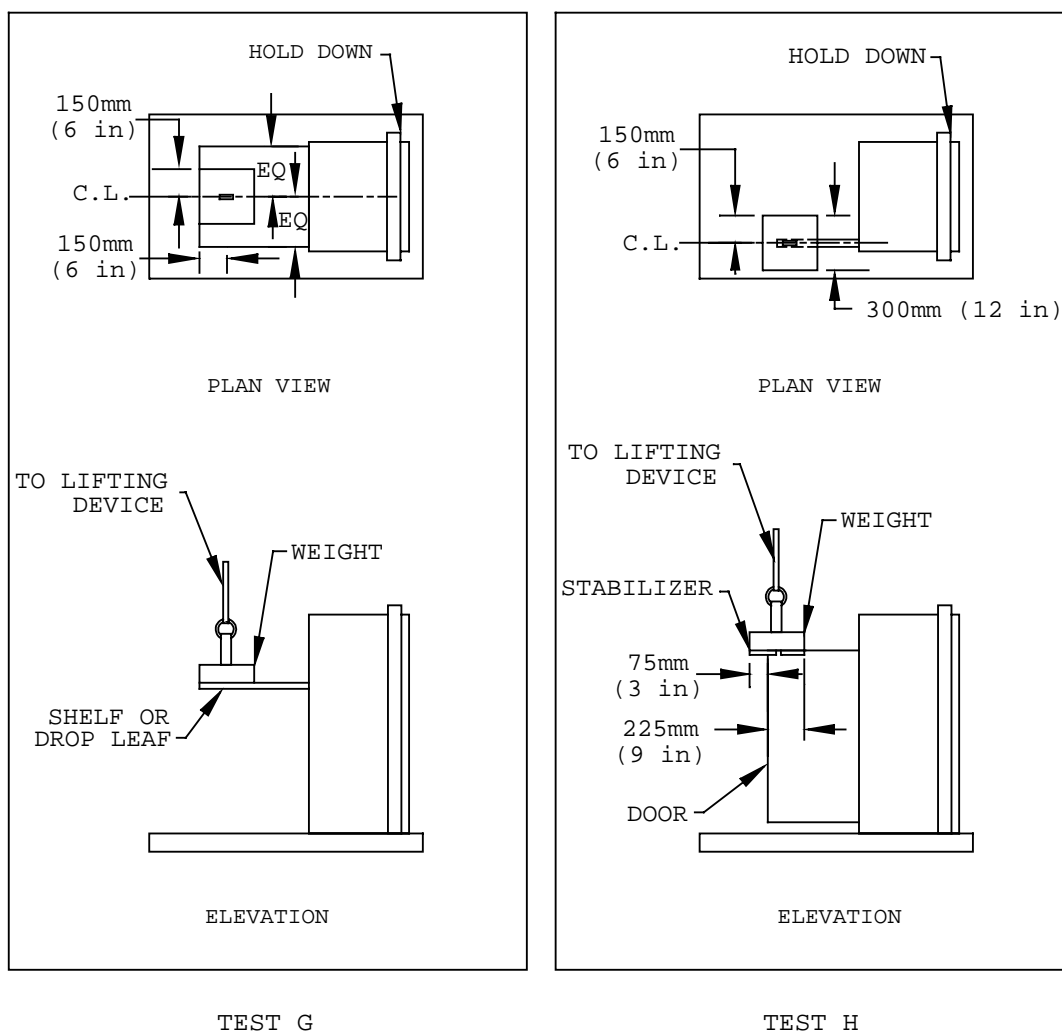


Size of the weight at base should be 305 x 305 mm (12 x 12 inches).

TEST		DRAWERS	TEST WEIGHT kg (lb)
E	1	File drawers	68 (150)
	2	Stowage aid drawers	181 (400)
F	1	Drawers other than file and stowage aid drawers	39 (85)

FIGURE 3. Load test procedures

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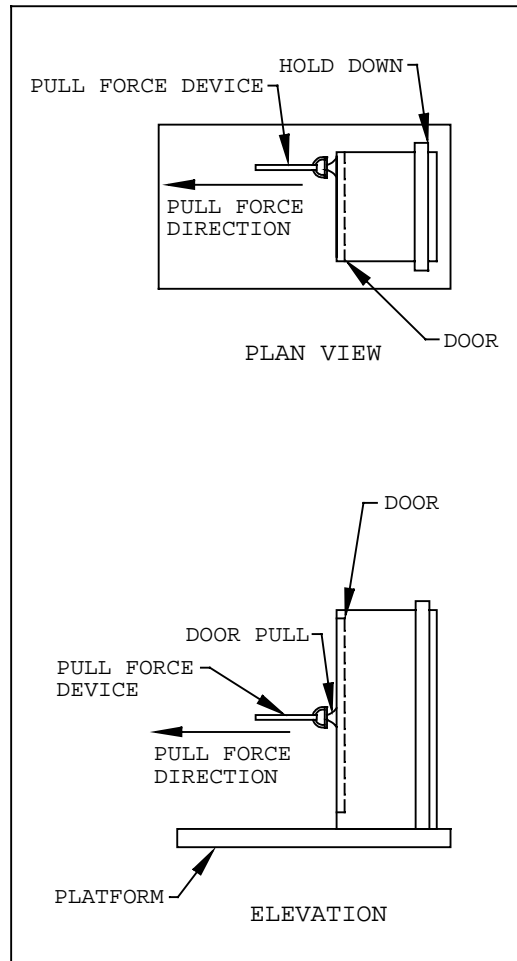


Size of the weight at base should be 305 x 305 mm (12 x 12 inches).

TEST		DROP LEAF, SLIDING SHELVES AND DOORS	TEST WEIGHT kg (lb)
G	1	Drop leaf and sliding shelves	91 (200)
	2	Doors greater than 914 mm (36 in) long	68 (150)
H	1	Doors not greater than 914 mm (36 in) long	45 (100)
	2	Doors greater than 914 mm (36 in) long	68 (150)

FIGURE 4. Load test procedures

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TEST J

TEST		DOOR LATCHES	TEST WEIGHT N (lbf)
J	1	Door latches	222 (50)

FIGURE 5. Load test procedures

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Custodians:

ARMY - AV
NAVY - SH
AIR FORCE - 99

Preparing activity:

NAVY - SH
(Project 2090-0109)