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COMMERCIAL ITEM DESCRIPTION

CABINETS, MODULAR DRAWER STORAGE (NAVAL SHIPBOARD)

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. SCOPE

This commercial item description (CID) describes modular drawer storage cabinets with various combinations of drawer sizes in various sizes of cabinet housings to be used for storing parts, tools, and supplies for Naval shipboard use.

2. CLASSIFICATION

2.1 Cabinet housing. Cabinet housings (excluding drawer handles and protruding lock-in and lock-out devices) shall be of the following types, styles, classes, and sizes shown in Table I.

Type 1: Narrow width - 22.5 ± 0.063 inches
Type 2: Standard width - 30 ± 0.063 inches

Style 1: Narrow depth - 21.375 ± 0.063 inches
Style 2: Standard depth - 27.75 ± 0.063 inches

Class 1: With fork-lift base
Class 2: Without fork-lift base

Size: See Table I

TABLE I. Cabinet housing sizes (inches)

Cabinet Size	Height of class 1 cabinets	Height of class 2 cabinets
1	27.0 ± .250	24.75 ± .250
2	30.0 ± .250	27.75 ± .250
3	33.0 ± .250	30.75 ± .250
4	44.0 ± .250	41.75 ± .250
5	59.0 ± .250	56.75 ± .250

2.2 Drawer selection combinations. Cabinet sizes 1 through 5 shall accommodate any combination of drawer sizes if the total number of modules is as specified in Table II.

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

AMSC N/A FSC 7125

TABLE II. Number of drawer modules for each cabinet size

Cabinet size	Total drawer module height (1)
1	27 or 28 modules high
2	31 or 32 modules high
3	35 or 36 modules high
4	49 or 50 modules high
5	68 or 69 modules high

Note: (1) Cabinets to be used as pedestals for working surfaces shall have the total number of drawer modules specified in Table III.

TABLE III. Special use applications for class 2 modular drawer storage cabinets used as pedestals for working surfaces

Cabinet size	No. of drawer modules	Cabinet Height (inches)	Height of customer provided foundation (1)	Overall height with foundation and customer provided top (inches) (2)
1	27 or 28	24.75	As required	30 - desk height
2	31 or 32	27.75	As required	33 - workbench height
3	37 or 38	30.75	As required	36 - workbench height
4	49 or 50	41.75	As required	47 - service counter height

Notes: (1) Foundation height to be selected to achieve overall height, ± .250 inches.
(2) Thickness of customer-provided top is generally 1.50 ± .250 inches.

2.3 Cabinet drawers. Cabinet drawers shall be of the following types, styles, and sizes as specified. Each cabinet drawer shall be furnished with a lock-in / lock-out device as specified in 3.1.3.4. Sizes of drawers are given in Table IV.

Type 1: Narrow width
Type 2: Standard width
Style 1: Narrow depth
Style 2: Standard depth

Size: A through O (See Table IV)

TABLE IV. Cabinet drawer dimensions (inches)

Drawer size	No. of Modules high	Drawer dimensions		
		A Dwr front ±.125	B Usable height ±.125	C Body height ±.125
A	4	3.000	2.250	2.000
B	5	3.750	3.000	2.000
C	6	4.625	3.875	3.125
D	7	5.375	4.625	3.125
E	8	6.125	5.375	4.750
F	9	7.000	6.250	4.750
G	10	7.750	7.000	6.375
H	11	8.500	7.750	6.375
I	12	9.250	8.500	6.375
J	13	10.125	9.375	6.375
K	14	10.875	10.125	6.375
L	15	11.625	10.875	6.375
M	16	12.500	11.750	6.375
N	17	13.250	12.500	6.375
O	18	14.000	13.250	6.375

2.4 Manufacturer's drawer substitution. When specified, the manufacturer may interchange drawers within the following pairs to account for minor variations in cabinets: A/B, C/D, E/F, and H/I.

3. SALIENT CHARACTERISTICS

3.1 Design and construction.

3.1.1 Cabinet. The cabinet shall be modular in construction, fabricated of cold or hot rolled commercial quality steel.

3.1.1.1 Cabinet panels. Top, bottom, front, side and back panels; all shall be formed with 90 degree flanges and shall be of thicknesses to meet load requirements (see 3.1.2.3). The front flange shall have an additional return flange for rigidity and safety and shall form the front of the cabinet case. The side and back panels shall be jointed on the back, or the joint may be centrally located on the back panel. All cabinet panels shall be resistance welded. The first and last welds in a series shall be not less than 3 inches from each end of the panel side.

3.1.1.2 Cabinet fork-lift base. The cabinet base shall be of two formed steel members, each with a thickness of not less than 13-gauge steel, 2.250 ± .250 inches in height, extending from the front to the rear of the cabinet. The members shall be suitable for allowing forklift entry from the front or rear of the cabinet and shall be attached to the bottom panel of the cabinet with resistance or mig welds. Each cabinet base shall be equipped with two face covers, fastened with corrosion resistant snaps or screws to cover the front and rear fork-lift openings when not in use.

3.1.2 Reinforcing members.

3.1.2.1 Front, rear and side vertical members. Each member for the front, rear and side vertical reinforcing shall be formed members with the thickness of each developed to meet load bearing requirements. The front column shall be resistance welded to the side panel, and the flanges of the rear members shall be resistance welded to the side and back panel. The front and rear vertical members, formed with not less than two bends, shall contain a series of evenly spaced, precisely located holes or slots, constructed and aligned for mounting the drawer carriage assemblies. The side vertical member shall be formed, without holes or slots, and resistance welded to each side panel.

3.1.2.2 Carriage assembly. The carriage brackets shall be right-hand and left-hand, of modular construction to permit interchangeability to the upper or lower position within a cabinet or to any other cabinet in the lots fabricated by the same manufacturer for this acquisition. The carriage brackets shall be internally engaged into the slots in the rear interior vertical reinforcing members.

3.1.2.3 Carriage suspension. The carriage shall be modular in construction to permit interchangeability within the cabinet and provide for the attachment of drawer rollers and out stops. Each carriage shall have two carriage stops designed to stop a drawer loaded at the rated capacity of 400 lbs. when opened at the rate of 15 inches per second.

3.1.3 Drawers.

3.1.3.1 Dimensions. Drawer dimensions shall be as shown in Table II.

3.1.3.2 Construction. The drawers shall be modular in construction and manufactured in standard sizes with respect to height and width. Module height shall be 0.875 ± 0.125 inches. The interior dimensions of the drawer shall be as shown in Table 4 and on Figure 1. The drawers and any standard drawer accessories shall be interchangeable within their own cabinet and with any

other cabinet of the same type from the same manufacturer. Each drawer shall be provided with multiple and equally spaced holes and slots to secure drawer partitions and dividers. Steel rails shall be securely welded to the drawer sides to provide rigid support of the drawer as it travels on the roller system of the carriage. Each drawer shall fully extend in the open position, unsupported, with left-hand and right-hand stops (see 3.1.2.3) to prevent the drawer from traveling past the supporting range of the carriage.

3.1.3.3 Drawer hardware. Each drawer shall be provided with an extruded aluminum handle fastened to the drawer front. The extrusion shall be constructed for the insertion of full length label strips and protective clear plastic strip covers, to allow easy reading and identification. Each end of the extruded handle shall be capped or configured for safety and retention of labels and covers. The handle length shall run approximately 75 percent of the width of the drawer and provide a comfortable finger entry.

3.1.3.4 Drawer lock-in and lock-out device. Drawers shall be provided with a spring-loaded, stainless steel mechanism for automatic lock-in and lock-out protection, with the drawer closed or fully extended, respectively, and loaded to rated capacity. The lock-in and lock-out device for each drawer shall be independent of any other drawer. An integral operating lever to activate the mechanism shall protrude through an opening in the drawer front, adjacent to the right or left end of the drawer handle. (Shipboard requirement, see 7.2)

3.1.3.5 Cabinet lock. When specified (see 7.1), a key-operated cabinet lock shall be installed in the top front of each cabinet housing. The single key-operated lock shall lock and unlock all drawers in the cabinet.

3.1.4 Drawer partitions and dividers.

3.1.4.1 Partitions. When specified (see 7.1), drawer partitions, modular in construction shall be provided, (see Figure 2), to compartmentalize each drawer into storage sections; front-to-back and left-to-right. Each partition shall be furnished in one length and slotted to match the slots on the inner walls of the drawer. The partitions shall be of steel, flanged on the bottom and provided with holes to allow attachment to the bottom of the drawer with two stainless steel sheet metal screws. Partition length shall be 0.125 ± .031 inches less than the inside drawer dimension. The height shall correspond to the drawer size specified in Table V.

TABLE V. Drawer partition and divider heights according to drawer size.

Drawer size	Height of drawer partition and divider (inches)
A, B	1.875 ± 0.125
C, D	2.875 ± 0.125
E, F	4.500 ± 0.125
G, H, I, J, K, L, M, N, O	5.250 ± 0.125

3.1.4.2 Dividers. When specified, vertical drawer dividers, Style A or B (see Figure 2) shall be provided. Dividers shall be modular in construction and of sufficient strength to contain the materials stowed in the drawer. The top 0.5 inches shall be formed; not less than 15 to 30 degrees from the vertical, to allow for placement of the labels. The bottom corner edges shall allow for clearance of partition flanges. Dividers shall be available in lengths (±.500 inches) of 3.500 inches, 4.625 inches, 6.250 inches, 8.000 inches, 9.500 inches, and 12.500 inches for each drawer. The height of the divider shall correspond to the drawer size specified in Table V.

3.2 Inclined operation. The unit shall operate satisfactorily, in accordance with the requirements of this CID (such as the drawer remaining closed to prevent the loss of contents) when inclined at angles of 20° (30° when

specified for submarines) each side of the vertical, in each of two vertical planes at right angles to each other. (Shipboard requirement, see 7.2)

3.3 Interchangeability. All parts of components or assemblies of the cabinet having the same manufacturer's part number shall be manufactured to standards and tolerances that will provide for the interchangeability of respective replacement parts between assemblies and components of the cabinet without modification of the part or the cabinet.

3.4 Physical size limitations. The type 1 unit shall pass or shall be provided with a means of disassembly so that it can pass through a surface ship access measuring 26 x 66 inches with 8-inch radius corners or a submarine access measuring 30 inches in diameter. (Shipboard requirement, see 7.2)

3.5 Label plates. The unit shall be provided with a data nameplate and an instruction plate, both attached to the front of the unit. They shall be readily visible during normal operating use and shall not adversely affect the life and utility of the unit. The data nameplate shall contain the manufacturer's name, model, serial number, date manufactured, and any other information needed to uniquely identify the unit. The instruction plate shall contain safety and operational information as applicable.

3.6 Environmental suitability. The unit shall be capable of withstanding ships vibration and motion. Controls, switches, moving parts, and electrical circuits shall operate under shipboard conditions without malfunction, binding, excessive looseness, or damage, when tested in accordance with MIL-STD-167-1, type I equipment. The unit shall be secured to the test machine in the same manner that it will be secured on shipboard. (Shipboard requirement, see 7.2)

4. REGULATORY REQUIREMENTS

The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation.

5. QUALITY ASSURANCE PROVISIONS

5.1 Product conformance. The product provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market, or the same product that has been delivered to the Government for shipboard use on a previous procurement. The Government reserves the right to require proof of such compliance.

6. PACKAGING

Preservation, packing, and marking shall be as specified in the contract or purchase order.

7. NOTES

7.1 Ordering data.

- Title, number, and date of this CID
- Quantity, type, style, class, and sizes of cabinets
- Quantity, type, style, size, and configuration of drawers
- Specify locks
- Specify " keyed alike" , for multiple cabinets with identical locks
- Specify " master keyed" , for single key access to multiple cabinets with different locks
- Quantity and Size of drawer dividers

- Quantity and Size of drawer partitions
- When required, the unit shall meet shock Grade B requirements of MIL-S-901
- When required, manuals shall be in accordance with ASTM F760

7.2 Shipboard requirement. Whenever a " (Shipboard requirement)" is included in a paragraph under SALIENT CHARACTERISTICS, it is meant that the requirement is something that is not normally offered to the commercial market by the manufacturer.

7.3 Sources of documents.

7.3.1 Military documents. Copies of documents required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.

MIL-STD-167-1 - Mechanical Vibrations of Shipboard Equipment
MIL-S-901 - Shock Tests, H.I. (High Impact) Shipboard Machinery, Equipment, Systems

7.3.2 American Society for Testing and Materials (ASTM) Standards. ASTM Standards are available from the American Society of Testing and Materials, 100 Barr Harbor Drive, West Conshohoken, PA 19428-2959.

ASTM F760 - Food Service Equipment Manuals

7.4 Suggested sources of supply. Manufacturers of products known to meet the requirements of this CID are listed below. However, competition is not limited to these companies.

Stanley Storage Systems
11 Grammes Road
P.O. Box 1151
Allentown, PA 18105-1151

Equipto, Corporate Offices
4819 Maple Ave.
Dallas, Texas 75219

Lyon Metal Products
P.O. Box 671
Aurora, IL 60507-0671

MILITARY INTERESTS:

Custodians:
Army – GL
Navy - SH

CIVIL AGENCY COORDINATING ACTIVITIES:
GSA - FSS

Preparing activity:
Navy - SH
(Project 7125-0154)

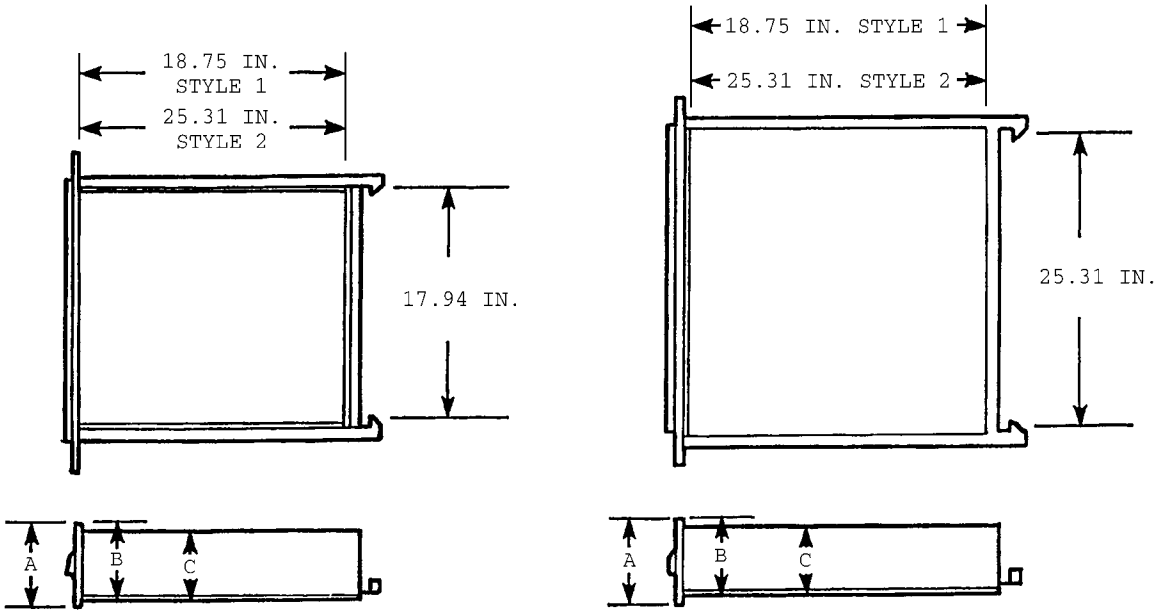

FIGURE 1. Types 1 and 2 cabinet drawers

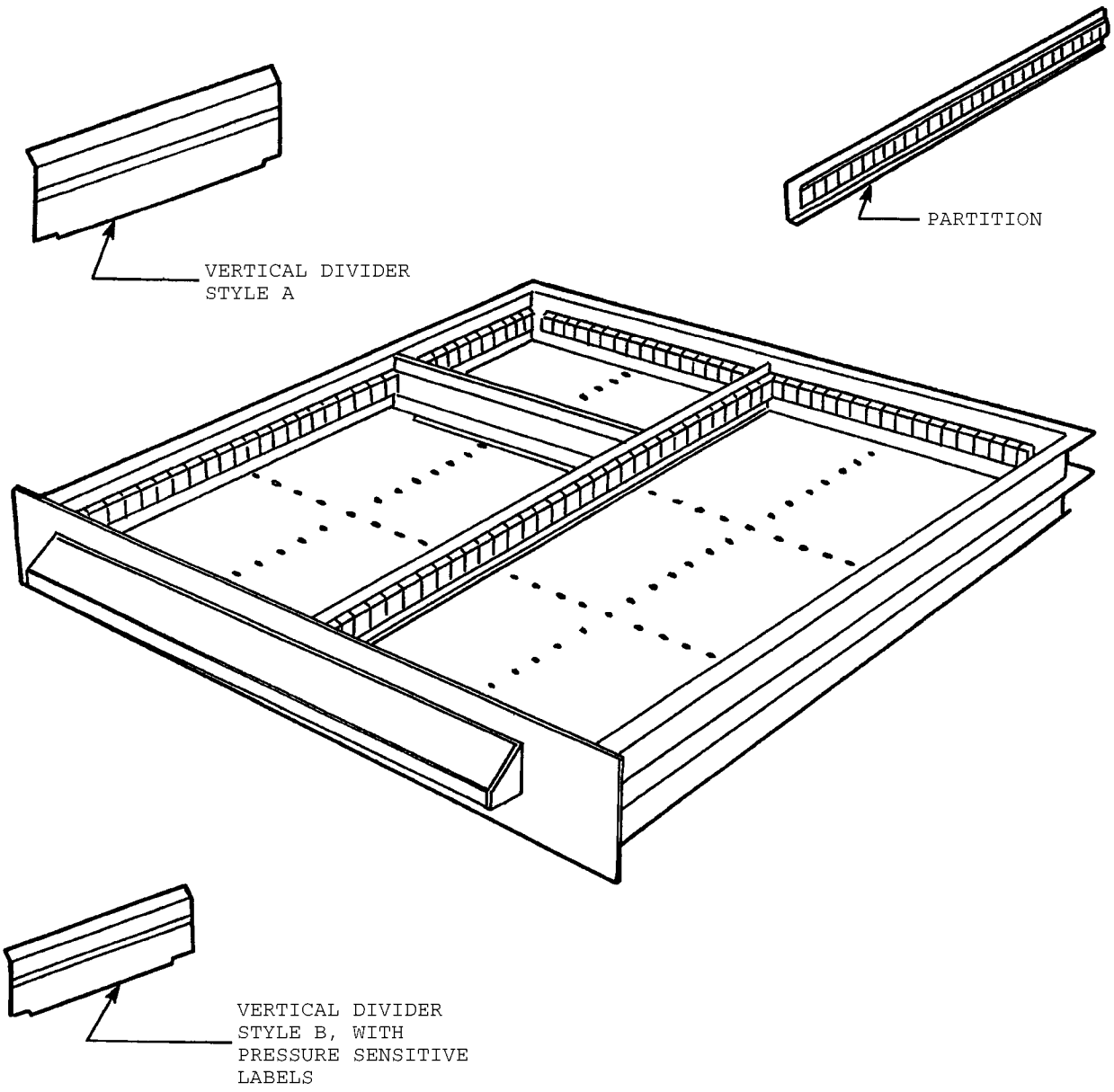

FIGURE 2. Drawer partitions and dividers