

SECTION 10505

VENTILATED STORAGE CABINETS

03/13/2013

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following
 1. Ventilated Storage Cabinets
 - a. 24W x 24D x 78H overall size cabinet provides 45 cubic ft. of storage space for equipment or uniforms. These units feature open air circulation, easy visual inspection of contents, and the most secure latching mechanism available today.
 2. Provide fasteners and anchorage devices to install lockers provided under this section.
 3. Provide metal filler panels to fill between banks of lockers and adjacent construction.

1.03 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of locker and bench.
- B. Shop Drawings: show lockers in detail, method of installation, fillers, trim, base and accessories. Include locker numbering sequence information.
- C. Samples for verification: Submit one full-size locker sample for evaluation. Adherence to the specification is required. Locker submitted must meet specification regardless of manufacturer's standard product. Submit manufacturer's technical data and installation instructions for metal locker units.
- D. Maintenance Data: For adjusting, repairing, and replacing locker doors and latching mechanisms to include maintenance manuals specified in Division 1.

1.04 QUALITY ASSURANCE

- A. Uniformity and Single Manufacturer Requirements: Provide each type of metal locker as produced by a single manufacturer, including necessary mounting accessories, fittings, and fastenings.
- B. All of the locker products in this specification as well as all of the materials used to manufacture this product to be produced in the United States of America. No exceptions will be allowed.
- C. Installers Qualifications: Lockers to be installed by an experienced agent of the manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Packaging and Shipping: Do not deliver metal locker until building is enclosed and ready for locker installation.
- B. Storage and Protection: Protect materials from damage during delivery, handling storage, and installation.

1.06 WARRANTY

- A. Locker manufacturer shall warrant the locker for the lifetime use of the original purchaser from date of shipment. Warranty shall include all defects in material and workmanship, excluding finish, vandalism and improper installation.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturers: Subject to compliance with requirements of the Contract Documents, acceptable manufacturers are as follows:
 - 1. DeBourgh Manufacturing Company or other manufacturers approved on a case by case basis with upgrades to meet this specification.

2.02 FABRICATION

- A. Locker Construction
 - 1. Lockers to be welded at seams and joints with exposed welds sanded smooth.
 - 2. No bolts, screws or rivets to be used in assembly of locker units.
 - 3. Ship lockers set-up, ready to be anchored in place in accordance with manufacturer's instructions.
- B. Body of Lockers
 - 1. Sides and Intermediate Partitions: Constructed of 1-inch by 1-inch by 1/8-inch steel angle iron frame with 3/4-inch, 13 gauge, bond sheared, flattened expanded metal welded to steel angle frames providing 73% ventilation per square inch. Formed sheet steel locker frames are not acceptable.
 - 2. Exposed End Panels: Constructed of 1-inch by 1-inch by 1/8-inch steel angle iron frame with 16 gauge sheet steel welded to steel angle frame.
 - 3. Backs: Solid sheet of 18 gauge cold rolled sheet steel welded to frames of sides and intermediate partitions.
 - 4. Shelves: Constructed of 16 gauge cold rolled sheet steel. Each unit comes with two fixed shelf placed at 12 inch intervals below the top of the locker with a maximum 200# weight limit. Four side hooks to be securely riveted to the bottom side of the shelf.
- C. Doors
 - 1. There shall be two doors made of 14 ga. cold rolled steel with double return bends on the vertical sides and a single return on the top and bottom. Doors to have diamond perforation.
- D. Latching
 - 1. Sentry-Latching: 3-Point/3-Sided Cremone type Latch: Provide an unbreakable steel handle securely welded to a three point Cremone type latch mechanism. Latching rods 3/8" in diameter shall engage top and bottom edge of locker frame.

A 3/16" thick center washer shall engage locker jamb, enabling door to latch on three sides. Mechanism must be welded to the door for maximum durability and must be compatible for both padlocks and built-in deadbolt locks.

E. Closed Bases

1. 4-inch high, 14 gauge welded steel base enclosed on all four sides securely welded to locker bottom.

F. Filler Panels: Manufacturer's standard fabricated from 18 gauge solid steel finished to match lockers. Provide slip joint fillers angle formed to receive filler panel.

G. Finish

1. Complete locker unit to be thoroughly cleaned, phosphatized and sealed.
2. Finish to be baked powder coat with a minimum 2-3 mil thickness.
3. Color of lockers shall be chosen from manufacturer's standard colors.

2.03 LOCKER ACCESSORIES

A. Interior Equipment: Furnish each locker with the following items, unless otherwise indicated

1. Numbering

- a. Finish each locker with black anodized laser-etched polished aluminum number plate.
- b. Locate number plate near center of each door.
- c. Owner to furnish number sequence.

2. Clothes Rod

- a. Place a one inch chrome plated tubular steel clothes rod 4 inches below the shelf.

PART 3 – EXECUTION

3.01 INSTALLATION

A. Wall Installation

1. Securely anchor every locker to wall and/or floor before use. Installation hardware to be determined based upon wall/floor construction.
2. Tie adjacent locker units by bolting at four points, two at top and two at bottom, using 1/4-inch cadmium plated bolts.

B. Island Installation

1. Securely anchor every locker to wall and/or floor before use. Installation hardware to be determined based upon wall/floor construction.
2. Tie adjacent locker units by bolting at four points, two at top and two at bottom, using 1/4-inch cadmium plated bolts.
3. Tie back-to-back locker units together with 1/4-inch cadmium plated bolts and washers.

3.02 ADJUSTING

A. General Requirements: Upon completion of installation, inspect lockers and adjust for proper door and locking mechanism operation.

3.03 CLEANING

A. General Requirements

- 1.** Clean interior and exposed exterior surfaces, removing debris, dust, dirt and foreign substances on exposed surfaces.
- 2.** Touch up scratches and abrasions to match original finish.
- 3.** Polish stainless steel and non-ferrous metal surfaces.
- 4.** Replace locker units that cannot be restored to factory-finished appearance.
- 5.** Use only materials and procedures recommended by locker manufacturer.