

SECTION 10505
ALL WELDED VENTILATED TURNOUT LOCKERS
2/16/09

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A.** This Section includes the following:

- 1.** Angle Iron Framed Ventilated Turnout Lockers
 - a.** 18x24x72 One Tier
 - b.** 24x22x72 One Tier
 - c.** 30x24x72 One Tier
 - d.** 36x24x72 One Tier
- 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 in 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. Installers Qualifications: Lockers to be installed by an experienced agent of the manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Packing and Shipping: Do not deliver metal lockers 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. 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 welded to side construction. Shelves to provide a minimum of 12 inches clearance. Shelves, tops, and bottoms to be ventilated with ½ inch round perforations.

C. Doors (Optional)

1. 1 inch by 1 inch by 1/8 inch angle iron frame with inserts of (available only when used with Sentry I latching):
 - a. 3/4 inch, 13 gage bond sheared expanded metal permitting 73% ventilation. An additional 13 gage steel handle panel with 16 gage cold rolled steel back panel will be securely welded to the center span of the door. All horizontal mesh edges shall be concealed with an additional steel formation welded to the door.

D. Latching

1. Sentry I Three-Point/Three-sided cremone latch:
 - a. Latching mechanism operated by a steel handle welded to a three-point cremone type assembly.
 - b. Latching rods, 3/8 inch diameter, engage top and bottom edge of locker frame. A 3/16 inch thick center latch engages door jamb.

E. Security Compartment (Optional)

2. Provide one security compartment per unit. Security compartment shall have solid 16 gauge sides welded to unit sides at intervals not to exceed 6 inches. (Collegiate Security compartment to be 12 inches wide, and the Pro Model security compartment will be 18 inches wide.
3. The security compartment door shall be constructed of 14 gauge cold rolled steel and have ¾ inch flanges on three sides with an overlap channel formation on the latch side. Doors may be solid, diamond perforated, Secur-n-vent or louvered and pre-punched for built in lock or padlock. Provide two rubber bumpers for quiet closing.

4. The spring latch shall be constructed of 16 ga. cold rolled sheet steel, bright zinc plated, with 10 ga. and 16 ga. stainless steel lock hasp. Completely enclosed stainless steel spring. Assembled using 6 nickel plated rivets.
5. Box locker doors shall be hinged on the right side by one piece 3/16 inch minimum diameter hinge pin securely welded to door and bearing in two solid brass bushed 16 ga. knife hinges secured to locker body by no less than four rivets.

F. Footlocker with reinforced seat (Optional)

1. Front shall be constructed of 16 ga. cold rolled sheet steel with Secur-N-Vent ventilation. Lift up top/seat shall be solid 14 ga. and shall have a 1 inch single return on back and sides and a double return on the front. A 16 ga. padlock hasp is welded to the seat. A 2 inch, 16 ga. stiffener channel shall be welded side to side to the bottom of the seat for reinforcement. Five rubber bumpers shall be riveted to the bottom of the seat to prevent metal to metal contact. A continuous strike welded to locker frame at sides, made of 1x1x1/8 inch pickled angle iron, along with front panel, will support the top/seat when in the closed position.

G. Full Extension Drawer Base with or without Bench Top. (Optional):

1. 17 inch overall height, by 33 3/8 inch deep.
2. Drawer base top, bottom and sides to be constructed from 16 gauge CRS. Drawer base back and drawer to be constructed using 18 gauge CRS.
3. Drawer base to be designed to accept a solid maple seating surface attached to the base or be flush mounted to with the front of the upper locker unit.
4. Drawer base to be fully assembled and attached to locker bottom at the factory.
5. 2 ea: full extension ball bearing drawer glides rated at a minimum of 150 pounds.
6. Lockers over 24 inches wide must meet drawer glide manufacturer's minimum requirement.

H. Reinforced Bottom:

1. Provide 16 gauge spacer channel welded to locker bottom from front to back for a more secure installation (when closed bases are not used).

I. 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.

J. Finish:

1. Complete locker unit to be thoroughly cleaned, phosphatized and sealed for maximum rust resistance, paint adhesion, and fine quality finish.

2. Finish to be baked pure TGIC polyester powder coat baked at 425 degrees, in a preheated oven, for 20 minutes. Finish shall have a cured mil thickness of 2 – 3 mils on all surfaces.
3. Color of lockers shall be chosen from manufacturer's 32 Category I standard colors.

2.03 LOCKER ACCESSORIES

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

1. Hooks:
 - a. Hooks to be heavy-duty forged steel with ball ends and zinc plated.
 - b. Provide three single wall hooks and one double hook in each locker when no coat rod is used.
 - c. When using a clothes rod the double hook will be removed and an additional single hook shall be added.
2. Numbering:
 - a. Finish each locker with polished aluminum number plate with etched black numbers.
 - b. Locate number plate near center of each door.
 - c. Owner to furnish numbering sequence.
3. Coat Rods: Manufacturer's standard zinc plated. Provide rod in lieu of ceiling hook for lockers 18 inches deep or greater. (Optional)

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 ¼ inch cadmium plated bolts.

B. Island Installation:

1. Securely anchor every locker to floor or base before use. Installation hardware to be determined based upon wall/floor construction.
2. Tie adjacent locker units together by bolting at four points, two at top and two at bottom, using ¼ inch cadmium plated bolts.
3. Tie back-to-back locker units together with ¼ 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.