

**SECTION 10505
METAL ATHLETIC LOCKERS**

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. Athletic Wardrobe Lockers configured:
 - a. Single Tier (DeBourgh Varsity)
 - b. Double Tier (DeBourgh Junior Varsity)
 - c. Physical Education Box Lockers
 - 2. Team Athletic Lockers configured:
 - a. Single Tier (DeBourgh All Sport) (Please specify if optional security compartment and/or footlocker is required on this open front locker).
 - 3. Locker Room Benches
 - 4. Provide fasteners and anchorage devices to install lockers provided under this section.
 - 5. 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. 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.** 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

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 (Ga), 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 Ga sheet steel welded to steel angle frame.
 - 3.** Backs: Solid sheet of 18 Ga cold rolled sheet steel welded to frames of sides and intermediate partitions.
 - 4.** Shelves and Tier Dividers: Constructed of 16 Ga cold rolled sheet steel welded to side and intermediate partition construction. Shelves provided in lockers 48 inches and taller, located to provide a minimum of 12 inches clearance.
- C.** Doors
 - 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 Ga bond sheared expanded metal for maximum ventilation. An additional 13 Ga steel handle panel with 16 Ga 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.

- b. Diamond perforated
 - c. Secur-N-Vent – three-dimensional vertical vents formed on fronts and backs of door.
 - d. Louvered – traditional six louvers at top and bottom of door.
2. 14 Ga formed doors constructed of single piece cold rolled steel with double bends on vertical sides and a single bend on horizontal sides (available with the above ventilation styles excluding mesh).

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.
2. Sentry II Recessed Gravity Latch
 - a. Door containing stainless steel cup recessed into formed door (doors 18 inches and higher).
 - b. 12 Ga steel finger lift mechanism.
 - c. Spring activated nylon slide latch enclosed in steel latch channel allows closing of door while padlock or built-in lock is in position.
 - d. Rubber bumpers riveted to door stops for silent operation.
3. Sentry III Single-Point Latch
 - a. Eleven Ga stationary latch welded securely to locker frame.
 - b. Latch extends no more than 1-1/4 inch into locker opening, penetrating through cup.
 - c. Flush-mounted, recessed stainless steel cup in a formed door with 18 Ga vertical back panel stiffener.
4. (Sentry I-R) Three-Point/Three-Side Recessed Latching
 - a. Finger lift mechanism operates a three-point, three sided latch in a flush mounted stainless steel cup.
 - 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.
5. Box Locker Spring Latch
 - a. 16 Ga cold rolled steel, bright zinc plated with 10 Ga latch and 16 Ga stainless steel lock hasp and completely enclosed stainless steel spring.
 - b. Assembled using 6 nickel plated rivets.
6. Special Needs Latch (ADA)
 - a. Latching operation with a three-point/three-sided cremone latch (like the Sentry I) has an extended six inch handle creating a weighted counterbalance allowing activation by either upward or downward motion.

E. Hinges

1. Hinges to be 3 inch, five knuckle, 14 Ga heavy-duty fast pin welded to both door and frame.
2. Locker doors 42 inches high or less shall have 2 hinges.
3. Doors over 42 inches shall have 3 hinges.

4. Box lockers to have knife hinges securely riveted to shelves, tops and bottoms. Hinges attached to 3/16 rod securely welded to the hinge side of box locker door.
- F. Slope Tops**
1. Provide 18 Ga all welded slope top with 25 degree pitch, attached at factory with concealed fasteners. Slope top to be in addition to standard 16 Ga flat top.
- G. Closed Bases**
1. 4 inch high, 14 Ga welded steel base enclosed on all four sides securely welded to locker bottom.
- H. Legs**
1. 6 inch, 14 Ga gusset style legs securely welded to locker bottom.
- I. Reinforced Bottom**
1. Provide 16 Ga spacer channel welded to locker bottom from front to back for a more secure installation (when closed bases are not used).
- J. Filler Panels: Manufacturer's standard fabricated from 18 Ga solid steel finished to match lockers. Provide slip joint fillers angle formed to receive filler panel.**
- K. 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 25 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 two single ceiling hooks and one double ceiling hook in each locker opening 20 inches or taller.
 2. Numbering
 - a. Finish each locker with black anodized laser-etched aluminum number plate.
 - b. Locate number plate near center of each door.
 - c. Owner to furnish numbering sequence.
 3. Coat Rods: Manufacturer's standard zinc plated. Optional clothes rod in lieu of ceiling hook available (recommended for lockers 18 inches deep or greater).

2.04 BENCHES

- A. Bench tops to be made of butcher block, maple hardwood 1-1/4 inches thick and 9-1/2 inches wide. Apply double coat of satin-gloss sealer for protection.**
- B. Pedestals**
1. Heavy Duty Pedestals: Heavy duty cast iron bell shaped base with a diameter of 7-3/4 inches threaded for 1-1/2 inch pipe. The pedestal is secured to the floor with a 1/2 inch by 5-1/2 inch concealed concrete anchor. Overall pedestal height is 16 inches. Misty Gray powder coat is standard, with optional standard color choice available.

2. Standard Duty Pedestal: 1-5/16 inch steel tubing welded to a 7-3/4 inch diameter base and top flange. All parts are finished with zinc plating. Overall pedestal height is 16-1/4 inches.
3. Moveable Pedestal: Gold anodized aluminum channel 1/8 inches thick by 3 inches wide. The trapezoidal shape measures 13-3/4 inches at the base. Overall pedestal height is 16 inches. To guard against skidding and scratching, a nonabrasive rubber pad is attached to the bottom of each leg.

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 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 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

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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.