



## SECTION 10 51 13 - METAL EQUIPMENT LOCKERS

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. DESCRIPTION: Furnish and install factory-assembled Heavy-Duty MIG-Welded Metal Lockers, complete, as shown and specified per contract documents.

#### 1.2 RELATED WORK SPECIFIED ELSEWHERE:

- A. Concrete: Section 03 10 00
- B. Rough Carpentry: Section 06 10 00
- C. Finish Carpentry: Section 06 20 00

#### 1.3 SUBMITTALS

- A. GENERAL: Refer to Section 01 30 00 ADMINISTRATIVE REQUIREMENTS - SUBMITTALS
- B. SHOP DRAWINGS: Submit drawings showing locker types, sizes, quantities, including all necessary details relating to anchoring, trim installation and relationship to adjacent surfaces.
- C. COLOR CHARTS: Provide color charts showing manufacturer's available colors (minimum 24). Provide metal samples if requested.
- D. NUMBERING: Locker numbering sequence will be provided by the approving authority and noted on approved shop drawings returned to the locker contractor.

#### 1.4 QUALITY ASSURANCE

- A. MANUFACTURING STANDARD: Provide metal lockers that are standard products of a single manufacturer, with interchangeable like parts. Include necessary mounting accessories, fittings, and fastenings.
- B. FABRICATOR QUALIFICATIONS: Firm experience (minimum 5 years) in successfully producing the type of metal lockers indicated for this project, with sufficient production capacity to produce required units without causing delay in the work.
- C. INSTALLER QUALIFICATIONS: Engage an experienced (minimum 2 years) installer who has successfully completed installation of the type of metal lockers and extent to that indicated for this project.

#### 1.5 PRODUCT HANDLING

- A. GENERAL: All work shall be fabricated in ample time so as to not delay construction process.
- B. DELIVERY: All materials shall be delivered to the site at such a time as required for proper coordination of the work. Materials are to be received in the manufacturer's original, unopened packages and shall bear the manufacturer's label.

- C. STORAGE: Store all materials in a dry and well ventilated place adequately protected from the elements.

## 1.6 WARRANTY

- A. All-Welded Lockers are covered against all defects in materials and workmanship excluding finish, damage resulting from deliberate destruction and vandalism under this section for the lifetime of the facility.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. AVAILABLE MANUFACTURERS: Subject to compliance with the design, material, method of fabrication and installation as required in this specification section or modified as shown on drawings. Manufacturers offering products which may be incorporated in the work include the following: Art Metal Products (Basis of Design)

### 2.2 LOCKER TYPES

- 1. General: Lockers shall be "AMP TASK FORCE XP ALL-WELDED EMERGENCY RESPONSE GEAR LOCKERS" as manufactured by Art Metal Products or approved equal.
- 2. Type: Single Tier (custom design for specialized use)
- 3. Size: \_\_\_\_" wide x \_\_\_\_" deep x \_\_\_\_" high
- B. TASK FORCE XP ALL-WELDED EMERGENCY RESPONSE GEAR Lockers:
  - 1. Doors: 14 gauge louvered double doors with full-height welded in stiffener
  - 2. Sides: Fully-framed 16 gauge sheet steel, diamond perforated for added ventilation.
  - 3. Tops, Bottoms, Shelves: 16 gauge solid sheet steel
  - 4. Backs: 18 gauge solid sheet steel

### 2.3 FABRICATION

- A. MATERIALS:
  - 1. Steel Sheet: All sheet steel used in fabrication shall be prime grade free from scale and imperfections and capable of taking a heavy coat of custom blend powder coat.
  - 2. Fasteners: Cadmium, zinc or nickel plated steel; bolt heads, slotless type; self locking nuts or lock washers.
  - 3. Hardware: Hooks and hang rods of cadmium plated or zinc plated steel or cast aluminum.
  - 4. Handle: Steel.
  - 5. Number Plates: To be aluminum with not less that 3/8" high etched numbers attached to door with two aluminum rivets.
- B. CONSTRUCTION: Lockers shall be "AMP TASK FORCE XP ALL-WELDED EMERGENCY RESPONSE GEAR LOCKERS" as manufactured by Art Metal Products or approved equal. All lockers shall be factory-assembled, of all MIG welded construction, in multiple column units to meet job conditions. Assembly of locker bodies by means of bolts, screws, or rivets will not be

permitted. Welding of knockdown locker construction is not acceptable. Grind exposed welds and metal edges flush and make safe to touch.

1. Frame / Vertical Side panels: Shall be of integral frame and side wall construction manufactured from 16 gauge sheet steel. The one-piece side/frame shall be formed to provide a continuous door strike on the hinge sides. Sides to be diamond perforated for added ventilation.
2. Integral Frame Locker base: 16 gauge formed sheet steel with double return flanges at the front and rear. A full depth horizontal channel shall be MIG welded under the locker bottom front-to-back at the left and right side of each welded locker unit as well as beneath each vertical side panel for maximum rigidity.
3. Flat Tops: : Shall be formed of one piece of 16 gauge cold rolled sheet steel and shall be an integral part MIG welded to each vertical side panel frame member and be continuous to cover the full width of a multiple locker unit.
4. Center Partition: Shall be fabricated from 16 gauge galvaneal sheet steel and run from inside of locker bottom to the underside of the lower of the two upper shelves.
5. Shelves: Shall be 16 gauge galvaneal sheet steel, have double bends at front and shall be MIG welded to the sides and/or center partition. Provide (2) full-width upper shelves and (3) 9" wide (nominal) shelves to the left of the center partition.
6. Backs: Shall be 18 gauge cold rolled sheet steel, be continuous to cover a multiple framed unit and be welded to each vertical side panel frame member.
7. Optional Lower Base/Drawer Unit: Shall be fabricated of 16 gauge galvaneal sheet steel and include a pull-out drawer for storage of large items. Drawer face shall be fabricated from heavy 14 gauge galvaneal sheet steel and includes a full width drawer pull. Base unit size shall be 18" high and 12" deeper than the upper locker depth. Drawer locking shall be controlled by upper unit wardrobe doors and self-locking when upper doors are closed. Includes a 1" thick laminated hardwood seat that is the width of the individual unit.
8. Security Box: Shall be 9" wide x 12" high and include a lockable 14 gauge galvaneal sheet steel door. Security box closes off the space between the lowest two 9" wide shelves.
9. Doors: Left and right doors shall be fabricated from single sheet prime 14 gauge galvaneal sheet steel with single bends at top and bottom and double bends at the sides. Doors shall include a 3" wide 18 gauge full height channel door stiffener MIG welded to the hinge side of the door as well as to the top and bottom door return bends and spot welded to the inside of the door face to form a rigid torque-free box reinforcement for the doors. Doors are louvered.
10. Latching/Handle: Shall be a 3-point projecting turn-handle mechanism designed to positively engage frame at the top and bottom as well as to the center of the left hand door. The vertical lock rods shall be fabricated from 3/8" diameter round rod. Steel-pry resistant retainers are to be securely welded to inner door face midway above and below the handle. Lock rod guides shall be welded to the inner top and bottom door flanges of the right hand door insuring proper engagement between the lock rods and locker frame when the door is in the locked position. Locking device shall be designed for use with either built-in locks or padlocks.
11. Door Hinges: Hinges for doors shall not be less than 16 gauge continuous piano type, securely riveted to frame and welded to the door.

## 2.4 LOCKER ACCESSORIES:

### A. Locks (If required):

1. Built-In Combination Locks: Built-in combination automatic dead bolt locks with 5 control keys. Locks must be capable of a minimum of five combination changes.
  2. Combination Padlocks: Combination padlock, key controlled.
- B. Equipment: Provide (1) full-width 1" diameter stainless steel coat rod per locker.
  - C. Body Armor Hook: Provide (1) coat hook in the lower left side opening to allow hanging of body armor.
  - D. Utility Belt Hook: Provide (1) coat hook on the inside of the right door to allow hanging of utility belt.
  - E. Finished End Panels (If required): Shall be "Boxed" type formed from 16 gauge cold rolled steel with 1" O.D. double bends on sides and a single bend at top and bottom with no exposed holes or bolts. If lockers have slope tops, end panels must be formed with slope at top to cover the ends of the slope tops. Finished to match lockers. Provide at all exposed ends.
  - F. Continuous Slope Tops (If required): Not less than 18 gauge sheet steel approximately 18 degrees pitch, in lengths as long as practical but not less than four lockers. To be installed in addition to the locker flat top with end closures for support. Finished to match lockers.
  - G. Fillers (if required): Provide where indicated, of not less than 16 gauge sheet steel, factory fabricated and finished to match lockers.
  - H. FINISHING: All locker parts to be cleaned and coated after fabrication with a seven stage hot-spray washing process and coated with a zirconium-based nanotechnology providing a green alternative to traditional iron phosphate followed by a coat of high grade custom blend powder electrostatically sprayed and baked at 350 degrees Fahrenheit for a minimum of 20 minutes to provide a tough durable finish. Color to be selected from manufacturer's standard list of colors. Two-Tone Color Combination: Shall be at no additional cost with the locker body, frame and trim chosen from one color and the door may be one of any other color chosen from manufacturers standard selection.
  - I. Lockers shall be GREENGUARD GOLD Certified.

## PART 3 EXECUTION

### 3.1 INSTALLATION

- A. GENERAL: Installation shall be in strict conformance with referenced standards, the manufacturer's written directions, as shown on the drawings and as herein specified.
- B. PLACEMENT: Lockers shall be set in place, plumb, level, rigid, flush and securely attached to the wall (or bolted together if back-to-back) and anchored to the floor or base according to manufacturer's specifications.
- C. ANCHORAGE: About 48" O.C., unless otherwise recommended by manufacturer, and apply where necessary to avoid metal distortion, using concealed fasteners. Friction cups are not acceptable.
- D. TRIM: Sloping tops, metal fillers and end panels shall be installed using concealed fasteners. Provide flush, hairline joints against adjacent surfaces.

### 3.2 ADJUSTMENT

- A. GENERAL: Upon completion of installation, inspect lockers and adjust as necessary for proper door operation. Touch-up scratches and abrasions to match original finish.

END OF SECTION