



SECTION 10 51 13 - METAL STUDENT LOCKERS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. DESCRIPTION: Furnish and install factory-assembled Unibody All-Welded Cubbies, 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. Unibody All-Welded Cubbies 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 UNIBODY ALL-WELDED BACKPACK CUBBIE" as manufactured by Art Metal Products or approved equal.
- 2. Type: Open design
- 3. Size: ____" wide x ____" deep x ____" high

- B. Unibody All-Welded Backpack Cubbie™

- 1. Sides: Fully-framed 16 gauge sheet steel
- 2. Tops, Bottoms, Shelves: 16 gauge solid sheet steel
- 3. 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. Number Plates: To be aluminum with not less that 3/8" high etched numbers attached with two aluminum rivets.

- B. CONSTRUCTION: Lockers shall be "AMP UNIBODY ALL-WELDED BACKPACK CUBBIE" 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. Twin-Frame / Vertical Side Panels: Shall be of integral frame and side wall construction manufactured from solid 16 gauge sheet steel. The one-piece side/frame shall be formed to provide a vertical channel frame member. A 16 gauge full height vertical channel frame member shall be MIG welded to the integral locker side producing a rigid torque-free twin-frame welded locker body. The frame shall include a tab which engages a slot in the base locking the side panel and frame into position.
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 to the underside from 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. Backpack Shelves: Shall be 16 gauge sheet steel, have a beaded (rolled tight) front profile to conceal the edge of the sheet steel and insure rigidity with single bends at sides and rear Shelves are to be MIG welded to the sides. Provide (2) full-width upper backpack shelves per locker.
5. Backs: Shall be 18 gauge cold rolled sheet steel, be continuous to cover a multiple twin-framed unit and be welded to each vertical side panel as well as to the top and bottom.
6. Center Partitions: Shall be of 16 gauge cold rolled sheet steel securely welded to the underside of the lower backpack shelf, unit back, and unit bottom. The front of the partition is to be beaded (rolled tight) to conceal the edge of the sheet steel and insure rigidity

2.4 LOCKER ACCESSORIES:

- A. Equipment: Furnish each locker wardrobe opening with one double prong ceiling hooks. The bottom is to include a number plate centered on the opening located near the front.
- B. Fillers (if required): Provide where indicated, of not less than 16 gauge sheet steel, factory fabricated and finished to match lockers.
- C. 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.
- D. 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