

SECTION 10505  
ATHLETIC LOCKERS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. The provisions of the General Conditions, Supplementary Conditions, and the Sections included under Division 1, General Requirements, are included as a part of this Section.

1.2 SUMMARY

- A. The Work required under this Section consists of new lockers and related items necessary to complete the Work, including:
  - 1. Athletic lockers.
- B. Related Work Specified Elsewhere
  - 1. Section 03300 - Cast-in-Place Concrete: For concrete locker base.
  - 2. Section 06200 - Finish Carpentry: For wood integral locker benches.

1.3 REFERENCES

- A. ASTM A653/A653M - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy coated (Galvannealed) by the Hot-Dip Process.

1.4 SUBMITTALS

- A. Submit product data indicating construction details, material descriptions, dimensions of individual components and profiles and finishes for each type of locker.
- B. Submit shop drawings prior to fabrication. Shop drawings shall indicate type of material, gauges of metal, reinforcement, filler, finishing strips, and other details of construction. They shall show methods and details of attachment, layout of the lockers, and devices to be furnished by others.
  - 1. When a numbering system is indicated, shop drawings shall identify the locations where each series is to be installed.
- C. Submit samples of manufacturer's full color line, including standard and optional colors (minimum of 18 colors).

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver lockers until spaces to receive them are clean, dry, and ready for locker installation.
- B. Protect lockers from damage during delivery, handling, storage, and installation.
- C. Deliver master keys, control keys, and combination control charts to owner.

1.6 COORDINATION

- A. Coordinate sizes, locations and layout of concrete and metal bases.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. The following manufacturers shall be considered, providing their product equals or exceeds the quality specified; and they can provide products of the type, size, function, and arrangement required:
  - 1. Superior, List Industries, Inc., Boca Raton, Florida
  - 2. DeBourgh Mfg. Co., Minneapolis, Minnesota
  - 3. Lyon Metal Products, Aurora, Illinois
  - 4. Republic Storage Systems Co., Canton, Ohio
  - 5. Penco Products, Inc., Oaks, Pennsylvania
- B. Products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product. The "Substitution Request Form" and complete technical data for evaluation must accompany requests for Architect's approval. All materials for evaluation must be received at least 10-days prior to bid due date. Additional approved manufacturers will be issued by Addendum.

## 2.2 LOCKER TYPES

- A. Refer to the Drawings for the various types, sizes, and layout of lockers required.
- B. Provide at least one of each type to comply with the Florida Accessibility Code.

## 2.3 MATERIALS

- A. Cold Rolled Steel Sheet: ASTM A 653/A653M-02, suitable for exposed applications, and stretcher leveled or roller leveled to stretcher leveled flatness.

## 2.4 ATHLETIC LOCKERS

- A. Body: Form tops and bottoms from minimum 16-gauge steel sheet.
  - 1. Solid Backs: Form from minimum 18-gauge solid steel sheet; flanged for double thickness at back vertical corners.
    - a. Provide where lockers are not back-to-back.
  - 2. Expanded Metal Backs: Form from minimum 13-gauge thick expanded metal welded to minimum 12-gauge steel angle or minimum 16-gauge steel channel frame.
    - a. Provide at back-to-back lockers.
- B. Frames: Form welded frames from minimum 16-gauge steel sheet channels or minimum 12-gauge steel angles.
  - 1. Latch Hooks: Form from minimum 12-gauge steel welded or riveted to doorframes.
  - 2. Cross Frames: Form intermediate channel cross frames between tiers from minimum 16-gauge steel sheet. Weld to vertical frame members.
- C. Expanded Metal Doors: Form doors from minimum 13-gauge expanded metal; welded to minimum 12-gauge steel angle frame, with manufacturer's standard, steel sheet lock panel welded to each side of door.
- D. Shelves: Provide hat shelf in single tier units, fabricated from minimum 16-gauge formed steel sheet; flanged on all edges.
- E. Hinges: Heavy duty, minimum 0.050" thick steel, full loop, 5-knuckle; tight pin; minimum 2" high. Weld to inside of doorframe and attach to door with at least 2 factory-installed fasteners that are completely concealed and tamper resistant when door is closed.
  - 1. Provide at least 3 hinges for each door more than 42" high and at least 2 hinges for each door 42" high or less.
- F. Recessed Handle and Latch: Manufacturer's standard housing, formed from 0.0359" thick nickel plated steel or stainless steel, with integral door pull, recessed for latch lifter and locking devices; non-protruding latch lifter; and automatic, pre-locking, pry resistant latch, as follows:
  - 1. Provide minimum 3-point latching for each door more than 42" high, minimum 2-point latching for each door 42" high or less.

- a. Provide strike and eye for padlock.
2. Provide single point stainless steel spring actuated latch with padlock lug.

## 2.5 LOCKER ACCESSORIES

- A. Hooks: Manufacturer's standard zinc plated, ball pointed steel. Provide one double prong ceiling hook, and not fewer than 2 single prong wall hooks for single, double, and triple tier units. Attach hooks with at least 2 fasteners.
  1. Coat Rods: Manufacturer's standard galvanized steel. Provide rod in lieu of ceiling hook for lockers 18" deep or greater.
- B. Number Plates: Each locker opening shall have an aluminum number plate with 3/8" high embossed or etched numerals, attached centered near top or door with 2 aluminum rivets.
- C. Continuously Sloping Tops: Manufacturer's standard, fabricated from minimum 20-gauge steel sheet, for installation over lockers with separate flat tops. Fabricate tops in lengths as long as practicable, without visible fasteners at splice locations, finished to match lockers. Provide fasteners, filler plates, supports, and closures, as follows:
  1. Closures: Vertical end type.
  2. Sloped top corner fillers, mitered.
- D. Recess Trim: Manufacturer's standard; fabricated from minimum 18-gauge steel sheet, minimum 2-1/2" face width, and finished to match lockers. Fabricate trim in lengths as long as practicable.
- E. Filler Panels: Manufacturer's standard fabricated from minimum 18-gauge steel sheet in an unequal leg angle shape, and finished to match lockers. Provide slip joint filler angle formed to receive filler panel.
- F. Boxed End Panels: Manufacturer's standard; fabricated from minimum 16-gauge steel sheet, with 1" wide edge dimension, finished to match lockers, and designed for concealing exposed ends of non-recessed lockers.
- G. Legs: where indicated on the drawings, provide nominal 6" long legs by extending vertical frame members, or by attaching gusset type legs to locker body. Fabricate legs from at least 16-gauge steel sheet, with provision for fastening to floor, and finished to match lockers.
  1. Closed Front/End Bases: without overlap or exposed fasteners, finished to match lockers.
- H. Continuous Metal Base: Unless otherwise indicated on the drawings, provide continuous metal base, minimum 12-gauge steel sheet, channel or zee profiled for stiffness, fabricated in lengths as long as practicable to enclose base and base ends of lockers, and finished to match lockers.
  1. Height: 4".

## 2.6 LOCKER BENCHES (PEDESTAL MOUNTED)

- A. Bench Tops: Provide manufacturer's standard one piece units, of the following material, minimum 9-1/2" wide by 1-1/4" thick, with rounded corners and edges:
  1. Laminated maple with one coat of clear sealer on all surfaces, and one coat of clear lacquer on top and sides.
- B. Pedestals: Provide manufacturers standard pedestal supports, with predrilled fastener holes, complete with fasteners and anchors, and as follows:
  1. Type: Tubular steel, minimum 1-1/4" diameter, with minimum 0.1345" thick steel flanges welded at top and base, and baked enamel finish; floor anchored with exposed fasteners.
  2. Color: As selected by Architect from manufacturer's full range.
- C. Furnish a minimum of 2 pedestals for each bench, with pedestal spacing not more than 72" oc.

## 2.7 FINISHES, GENERAL

- A. Finish all steel surfaces and accessories, except pre-finished stainless steel and chrome plated surfaces.

- B. Comply with NAAMM "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- D. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within 1/2 of the range of approved samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved samples and are assembled or installed to minimize contrast.

## 2.8 STEEL SHEET FINISHES

- A. Surface Preparation: Clean surfaces of dirt, oil, grease, mill scale, rust, and other contaminants that could impair paint bond. Use manufacturer's standard methods.
- B. Baked Enamel Finish: Immediately after cleaning and pre-treating, apply manufacturer's standard baked enamel finish consisting of a thermosetting topcoat. Comply with paint manufacturers written instructions for applying and baking to achieve a minimum dry film thickness of 1.4 mils on doors, frames, and legs, and 1.1 mils elsewhere.
  - 1. Color and Gloss: As selected by Architect from manufacturer's full range.
    - a. Interior shall be same color as exterior.

## 2.9 FABRICATION

- A. Fabricate each locker with an individual door and frame, individual top, bottom, back, and shelves, and common intermediate uprights separating compartments.
  - 1. Lockers may be fabricated with a common top, back, and bottom in units not exceeding 4 lockers.
- B. All Welded Construction: Pre-assemble lockers by welding all joints, seams, and connections, with no bolts, screws, or rivets used in assembly. Grind exposed welds flush.
- C. Fabricate lockers square, rigid, and without warp with metal faces flat and free of dents or distortion. Make exposed metal edges free of sharp edges and burrs, and safe to touch. Weld frame members together to form a rigid, one-piece assembly.
  - 1. Form locker body panels, doors, shelves, and accessories from one-piece steel sheet, unless otherwise indicated.

## PART 3 EXECUTION

### 3.1 INSTALLATION

- A. The Work shall be installed level, plumb, true, and flush in strict accordance with the manufacturer's specifications, instructions, and recommendations.
  - 1. Installation shall include the proper assembly of lockers and their installation in accurate position and alignment. Screws and other assembly devices shall be properly installed and tightly drawn.
  - 2. Install end panels and filler plates to complete each section of the assembly.
  - 3. Install finishing strips required to bring the completed assembly into proper finished condition.
- B. Connect groups of all welded lockers together with standard fasteners, with no exposed fasteners on face frames.
- C. Anchor lockers to floors and walls at intervals recommended by manufacturer, but not more than 36 inches on center. Install anchors through backup reinforcing plates where necessary to avoid metal distortion, using concealed fasteners.
  - 1. Lockers shall be leveled with concealed cedar shims, where necessary, to provide for irregularities in the base.

2. Secure lockers with anchor devices to suit substrate materials. Minimum Pullout Force: 100 lb
3. Bolt adjoining locker units together to provide rigid installation.
- D. Fit exposed connections of trim, fillers, and closures accurately together to form tight, hairline joints, with concealed fasteners and splice plates.
  1. Attach recess trim to recessed lockers with concealed clips.
  2. Attach sloping top units to lockers, with closures at exposed ends.
- E. Attach boxed end panels with concealed fasteners to conceal exposed ends of non-recessed lockers.
- F. Layout and install benches as shown on the drawings. Comply with the requirements for “accessible route” as required by the Florida Accessibility Code within the locker room(s).

### 3.2 FIELD QUALITY CONTROL

- A. Protect all new (and existing, if adjacent) lockers installed against scratches or other imperfections or defects up until the time of final acceptance of the building.
- B. Defective work of material occurring prior to that time shall be promptly replaced, when requested by the Architect, without additional cost to the Owner.

END OF SECTION