



**SECTION 10 51 13  
METAL LOCKERS**

**PART 1 – GENERAL**

**1.01 SECTION INCLUDES**

- A. Heavy Duty Knocked Down Open Front Lockers.
- B. Locker benches.

**1.02 REFERENCES**

- A. ADAAG – Americans with Disabilities Act, Accessibility Guidelines.

**1.03 SUBMITTALS**

- A. Submit under provisions of Section 01 33 00.
- B. Shop Drawings: Show the following:
  - 1. Dimensioned drawings including plans, elevations, and sections to show locker locations and interfaces with adjacent substrates.
  - 2. Details of assembly, erection, anchorage and clearance requirements.
- C. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and finishes.

**1.04 DELIVERY, STORAGE, AND HANDLING**

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Protect locker finish and adjacent surfaces from damage.

**PART 2 – PRODUCTS**

**2.01 MANUFACTURERS**

- A. Acceptable Manufacturer: Penco Products, Inc., which is located at: 2024 Cressman Rd. P. O. Box 158 ; Skippack, PA 19474-0158; Toll Free Tel: 800-562-1000; Tel: 610-666-0500; Fax: 610-666-7561; Email:general@pencoproducts.com; Web: www.pencoproducts.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 25 00.
- D. Provide only metal lockers fabricated in the United States by a single domestic manufacturer.

**2.02 MATERIALS**

- A. Steel: Prime grade mild cold-rolled sheet steel free from surface imperfection, capable of taking a high-grade enamel finish and in compliance with ASTM A1008.

- B. Steel: Sheet steel components shall be fabricated using zinc-coated steel free from surface imperfection, capable of taking a high-grade enamel finish and in compliance with ASTM A879.
- C. Hooks: 7/8 inch x 2-1/2 inch x 3 inch single prong heavy duty
- D. Bolts and Nuts: Zinc plated truss fin head bolts and hex nuts.

#### 2.03 HEAVY DUTY OPEN FRONT PERSONAL EQUIPMENT LOCKERS

- A. Heavy Duty Lockers: All locker body components made of cold rolled steel specially formed for added strength and rigidity and to ensure tight joints at fastening points.
- B. Locker Body Construction: Steel specially formed for added strength and rigidity and to ensure tight joints at fastening points.
  1. Sides, Bottoms, Tops, and Shelves:
    - a. 16 gauge steel.
    - b. Sheet steel sides ventilated with 3/4 inch (19 mm) wide by 1-1/2 inch (38 mm) high diamond-shaped perforations unless specified solid.
  2. Backs: Solid 18 gauge steel.
  3. Tops and bottoms with three sides formed 90 degrees, the front offset formed to be flush with horizontal frame member.
  4. Shelves with four sides formed to 90 degrees, front edge having a second bend.
  5. Vertical frame member to be not less than 16 gauge formed to a channel shape and hemmed to create a smooth interior edge. Intermembering parts to be mortised and tenoned and electrically welded together in a rigid assembly capable of resisting strains.
  6. Hole Spacing in Locker Body Construction: Not exceeding 9 inches (225 mm).
  7. Optional factory assembly locker bodies using rivets.

#### 2.04 INTERIOR EQUIPMENT

- A. Heavy Duty Turnout Lockers Without Doors:
  1. Single-Tier, 72 inches (1.828 m): Shelf located approximately 12 inches (304.8 mm) below top of locker.
  2. Openings 24 inches (609.6 mm) or over deep: Two heavy duty 7/8 inch x 2-1/2 inch x 3 inch single prong wall hooks and one 1 inch diameter coat rod.

#### 2.06 ACCESSORIES

- A. Number Plates: Provide each locker with a polished aluminum number plate, 2-1/4 inches (57 mm) wide by 1 inch (25 mm) high, with black numerals not less than 3/8 inch (9.5 mm) high; attach to face of door with two aluminum rivets.
- B. Optional Name Card Holder: Plated steel. Holds 1.25" (31.75 mm) x 2.75" card (69.85 mm).
- C. Locks: Built-in flat key locks; master-key to same series.
- D. Locks: Built-in grooved key locks (pin tumbler); master-key to same series.
- E. Locks: Built-in three-number dialing combination locks capable of at least five different combination changes; provide master key, combination change key, and combination control charts.

- F. Padlocks: Master-keyed three-number dialing combination type padlocks; provide master key.
- G. Interior Equipment
1. Optional Center Partition: 16 gauge with beaded front. Attached securely to shelf and locker bottom or additional lower shelf. (Not for use with footlocker or seat) Mounting holes for half shelves provided on nominal 12 inch centers.
  2. Optional Acrylic mirror: Self adhesive, 6 inch (152.4 mm) x 8 inch (203.2 mm).
  3. Optional extra full width shelves. 16 gauge, flanged on four sides and attached securely to solid locker side. Shelves over 24" wide are also attached to the locker back and punched for attachment of center divider.
  4. Optional Half Shelves: 16 gauge, flanged on four sides and attached securely to center partition and locker side.
  5. Optional Security box: 14 gauge lockable door with a 16 gauge side panel. The door is attached to a welded frame with a continuous hinge. The hinge is mounted to door with aluminum rivets. The door is locked through a single point latch with a padlock or built in lock. A door pull shall be provided for use with padlocks. Security box door frame to be not less than 16 gauge formed to a channel shape. Vertical members to have an additional flange to provide a continuous door strike. Intermembering parts to be mortised and tenoned electrically welded together in a rigid assembly capable of resisting strains.
    - a. 15 inch wide
    - b. 24 inch wide with full width interior shelf
  6. Optional cell phone/key tray: 8 inch (203.2 mm) x 2 inch (50.8 mm) x 2 inch (50.8 mm) mounted to inside of 24" wide security box door.
  7. Optional metal seat only: 14 gauge, located 18 inches from floor.
  8. Optional hardwood seat only: 1-1/4" thick full depth located 18" from floor.
  9. Optional footlocker: Recessed from locker frame to clear full length locker door. Front foot locker panel includes single point latch with padlock strike plate and mini louvers. Lid of foot locker has a continuous hinge and also serves as a seat. Opening and closing of the lid is quieted by rubber bumpers mounted to the contact points. The seat lid is strengthened with two reinforcement channels welded to bottom. Two side seat supports are bolted to side panels and inserted in a support tab on the front locker panel for added strength.
  10. Optional sheet steel document sleeve. 16 gauge measuring 12 inches wide (horizontal storage) or 9-1/2 inches wide (vertical storage) and attached using supplied hardware.
  11. Optional Garment separator. Formed from 16 gauge sheet steel and perforated. Mounted underneath the full width shelf.
  12. Optional Case and Drawer. Drawer body shall be constructed of 16 gauge sheet steel, mounted on full extension, ball bearing glides rated at 250 lb. capacity for smooth operation. Drawer shall feature an integral pull spanning the full width of the drawer body.
  13. Optional Parachute/body armor rack. Formed from 3/4 inch diameter, heavy wall steel tube. Reinforced by 14 gauge gussets and supports and mounted securely to locker back. Replaces standard rear mounted coat hooks. 180 pound capacity.
- H. Continuous sloped hoods: 16 gauge steel, slope rise equal to 1/3 of the locker depth (18.5 degrees), plus a 1 inch (25 mm) vertical rise at front.
1. Supplied in 72 inch (1829 mm) lengths only.
  2. Slip joints without visible fasteners at splice locations.
  3. Provide necessary end closures.
  4. Finish to match lockers.

- I. Finished End Panels: Minimum 16 gauge steel formed to match locker depth and height, 1 inch (25 mm) edge dimension; finish to match lockers. Install with concealed fasteners.
- J. Front Fillers: 20 gauge steel formed in an angle shape, with 20 gauge slip joint angles formed in an angle shape with double bend on one leg forming a pocket to provide adjustable mating with angle filler.
  - 1. Attachment by means of concealed fasteners.
  - 2. Finish to match lockers.
- K. Recess Trim: 18 gauge steel, 3 inch (75 mm) face dimension.
  - 1. Vertical and/or horizontal as required.
  - 2. Standard lengths as long as practical.
  - 3. Attach to lockers with concealed clips.
  - 4. Provide necessary finish caps and splices.
  - 5. Finish to match lockers.
- L. Benches: Laminated selected hardwood, 1-1/4 inch (31 mm) full finished thickness, corners rounded and sanded, surfaces finished with two coats of clear lacquer.
  - 1. Width: 9-1/2 inches (240 mm) wide.
  - 2. Width: 12 inches (305 mm) wide.
  - 3. Width: 24 inches (610 mm) wide.
  - 4. Lengths: As shown.
- M. Heavy-Duty Bench Pedestals: Steel tubing with 10 gauge steel flanges welded to each end, 16-1/4 inches (412 mm) high, finish to match lockers.
- N. Stainless Steel Free-Standing Bench Pedestals: 2-inch (50 mm) diameter brushed 16 gauge stainless steel formed into a trapezoid, 14 inch (355 mm) wide bottom with two 5/16 inch (7.9 mm) diameter holes, top flange with four 5/16 inch (7.9 mm) diameter holes for fastening to bench

## 2.07 FABRICATION

- A. Fabricate lockers square, rigid, without warp, with metal faces flat and free of distortion.
- B. Knock-Down Lockers: Fabricate lockers on the unit principle, each locker with individual door and frame, individual top, bottom, back, and shelves, with common intermediate divisions separating compartments. Verify dimensions and arrangement before fabrication.
- C. Finish: Enamel powder coat paint finish electrostatically applied and properly cured to manufacturer's specifications for optimum performance. Finishes containing volatile organic compounds and subject to out-gassing are not acceptable. Locker exterior and interior shall be painted the same color.
  - 1. Powder Coat - Dry Thickness: 1 to 1.2 mils (0.025 to 0.03 mm).
  - 2. Powder Coat Plus - Dry Thickness: 2 to 2.2 mils (0.05 to 0.055 mm).
  - 3. Color: As selected from manufacturer's standard colors.
  - 4. Special Finish
    - a. Custom color
    - b. Anti-Graffiti
    - c. Anti-Microbial
    - d. TGIC
    - e. Ultra-Weatherable.

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Do not begin installation until substrates and bases have been properly prepared.
- B. If substrate and bases are the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.02 INSTALLATION

- A. Install metal lockers and accessories at locations shown in accordance with manufacturer's instructions.
- B. Install lockers plumb, level, and square. Work is not to progress until site meets necessary conditions.
- C. Anchor lockers to floor and/or wall at 36 inches (0.914 m) or less, as recommended by the manufacturer.
- D. Bolt adjoining locker units together to provide rigid installation.
- E. Install sloping tops and metal fillers using concealed fasteners. Provide flush hairline joints against adjacent surfaces.
- F. Install benches by fastening bench tops to pedestals and securely anchoring to the floor using appropriate anchors for the floor material.

### 3.03 ADJUSTING AND CLEANING

- A. Adjust doors and latches to operate without binding. Verify that latches are operating satisfactorily.
- B. Adjust built-in locks to prevent binding of dial or key and ensure smooth operation prior to substantial completion.
- C. Touch-up with factory-supplied paint and repair or replace damaged products before substantial completion.

### 3.04 PROTECTION

- A. Protect installed products until completion of project.

END OF SECTION

**Penco Products, Inc. reserves the right to vary specifications consistent with a policy of continuous product improvement.**