



**SECTION 10 51 13
METAL LOCKERS**

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Open Front Knocked Down Team Lockers.
- B. Locker benches.

1.02 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. 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.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and finishes.

1.03 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: Zinc plated forged steel, ball ends.
- D. Bolts and Nuts: Zinc plated truss fin head bolts and hex nuts.

2.03 HEAVY DUTY 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.
 - 1. Open-Front Athletic Lockers: Penco Stadium lockers, knock-down, no legs (standard).
- B. Locker Body Construction: Stadium knock-down, 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.
 - 2. Backs: Solid 18 gauge steel.
 - 3. Tops & bottoms shall be 16 gauge with three sides formed 90 degrees and the front offset formed to be flush with the horizontal frame member.
 - 4. Shelves shall be 16 gauge with four sides formed to 90 degrees, the front edge shall have a second bend.
 - 5. Hole Spacing in locker body construction: Not exceeding 9 inches (225 mm).
 - 6. Bottoms have two reinforcement channels for added strength.
 - 7. Optional Factory assembly of locker bodies using rivets.

2.04 INTERIOR EQUIPMENT

- A. Stadium Open-Front Athletic Lockers:
 - 1. Full width shelf, coat rod, and two single prong hooks.
 - 2. Box locker security box, above shelf.
 - a. Door shall be 14 gauge steel, punched for built-in lock or padlock. Lock hole cover with door pull shall be provided for padlock use.
 - b. Hinges: 16 gauge continuous and riveted to 16 gauge welded frame
 - c. Side panel: 16 gauge
 - 3. Foot locker with hinged bench seat, padlock hasp and stainless steel strike.
 - a. Hinge: 16 gauge continuous and riveted to horizontal panel
 - b. Ventilation: Front panel to have a pattern of mini louvers that measure $\frac{1}{2}$ " (12.7 mm) wide by $\frac{1}{4}$ " (6.35 mm) high.

2.05 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. Locks: Built-in flat key locks; control-key to same series.
- C. Locks: Built-in grooved key locks (pin tumbler); control-key to same series.
- D. Padlocks: Master-keyed three-number dialing combination type padlocks; provide master key.

- E. Continuous Sloped Hoods: 18 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.

- F. 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.

- G. Finished End Panels: Minimum 16 gauge steel formed to match locker depth and height, 1 inch (25 mm) edge dimension; finish to match lockers and install with concealed fasteners.

- H. 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.

- I. 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.

- J. 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.

- K. 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.

- L. 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

2.06 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.
- C. Anchor lockers to floor and wall at 48 inches (1.219 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.

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