SECTION 10 51 26
PLASTIC LOCKERS

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Fully Assembled High Density Polyethylene Lockers

B. High Density Polyethylene Benches

1.02 REFERENCES

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

1.03 SUBMITTALS

A. Submit under provisions of 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.

1.04 DELIVERY, STORAGE & 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. Solid plastic locker shall be manufactured for Penco Products, 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. These specifications shall be regarded as minimum; lockers constructed of other materials, or material with a core and not of solid HDPE plastic will not be acceptable.

C. Substitutions: Not permitted.

D. Requests for substitutions will be considered in accordance with provisions of Section 01 25 00.

E. Provide all plastic lockers from a single manufacturer.

2.02 MATERIALS

A. Sides, shelves, tops and bottoms shall be made from polymer resins formed under high pressure to solid plastic components 3/8" thick with homogeneous color.

B. Doors shall be made from polymer resins formed under high pressure to a solid plastic component 1/2" thick with homogeneous color.

C. Door frames shall be made from polymer resins formed under high pressure to a solid plastic component 1/2" thick with homogeneous color.

D. Material Testing. All solid plastic components shall resist deterioration and discoloration when subjected to the following chemicals:

Acetic Acid 8-%	Borax
Hydrochloric Acid 40%	Soaps
Ammonium Phosphate	Citric Acid
Hydrogen Peroxide 30%	Potassium Bromide
Acetone	Caustic Soda
Isopropyl Alcohol	Trisodium Phosphate
Bleach 12%	Copper Chloride
Lactic Acid	Sodium Bicarbonate
Ammonia Liquid	Chlorine Water
Nicotine	Urea and Urine Brine
Core Oils	Lime
Sulfur	Vinegar

(Testing in accordance with corrosion-testing procedure established by the United States Plastic Corporation)

2.03 FABRICATION

A. Fabricate locker components square and rigid, with finish free from scratches and chips.

B. Locker shall ship fully assembled, requiring only attachment of interior accessory items. Lockers requiring assembly on site are not permitted.

C. Separate solid plastic components will be secured using perimeter dado routing to provide a continuous and solid joint that slides together for assembly.

D. Locker sides and backs shall form a one-piece unit constructed from a single and contiguous sheet of solid plastic requiring no hardware. Door Frames shall be bonded to locker bodies using plastic welding process.

E. Lockers with doors

1. Continuous spring-loaded latch mechanism shall provide a vertical finger lift that is capable of accepting a padlock and is securely fastened to the door. Latch mechanism shall be attached to the length of the door, providing a continuous security latch.
2. Door Hinge shall be continuous and integrate into the full length of the door and main locker body, with no metallic knuckles or pins.
3. Ventilation

a. Pattern of 6 horizontal slots in upper and lower ranges of door
b. High security solid door with no perforations
c. Diagonal mesh diamond pattern
d. Pattern of round ventilation holes in upper and lower ranges of door

F. Open front cubby lockers
1. Face frame shall incorporate horizontal members separating each compartment.
2. Exterior edges of the perimeter of the opening shall be radiused.

G. Stadium lockers
1. Face frame shall include a horizontal member separating the upper compartment from the lower main storage
2. Upper door shall be accept a standard locker padlock
3. Lower foot locker what accept a standard locker padlock

H. Coat Hooks shall be made from steel, zinc plated to resist corrosion and attached to intermediate shelves at the locker sides using hardware supplied by the manufacturer. Provide two per opening on 12" and 15" wide single, double and triple tier openings. 2 additional hooks are supplied at the rear of 18" wide lockers.

I. Finish shall be slightly textured for tops, bottoms, shelves and side walls to reduce marring in the color natural white. Doors have a slightly textured finish to reduce marring and will be selected from the manufacturer's standard colors.

J. All lockers with doors 12" and higher shall have a vertical lift handle that requires no pinching, twisting, grasping or lateral motion to disengage.
1. All lockers with doors shall include a padlock attachment.
2. Built-in lock option will replace padlock attachment

2.04 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. Padlocks: Master-keyed three-number dialing combination type padlocks; provide master key. Mechanism must be resistant to "shimming".

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 combinations changes; provide master key, combination change key, and combination control charts.

F. Coin-Operated Locks:
1. Coin return/deposit type.
a. Token.
b. One quarter.
c. Two quarters.
2. Coin collect/pay type with cash box.
a. Token.
b. One quarter.
c. Two quarters.

G. Continuous recessed locker base shall be constructed of 3" x ¾" HDPE providing a 3 inch high and deep toe-kick.

H. Finished end panels shall be constructed of one piece of ½" thick HDPE and attached using concealed tamper resistant fasteners.

I. Finished flat top panel shall be constructed of one piece of ½" thick HDPE and attached using concealed tamper resistant fasteners.

J. Continuous Sloping Hood shall be constructed of ½" thick HDPE and attached using concealed tamper resistant fasteners.

K. Locker room benches shall be constructed of single 9-1/2" by 1-3/8" solid plastic section in the lengths required. Lengths greater than 120" shall be supplied in multiple sections.

L. Anodized aluminum locker bench pedestal shall have two 5/8" by 6" diameter mounting flanges securely welded to a 2" diameter center section and allow the use of 4 floor anchors per pedestal.

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 lockers at the location shown in accordance with the manufacturer's instructions for plumb, level, rigid and flush installations.

B. Anchor the units to the wall studs or masonry through the locker back and to the floor. Lockers are joined side by side with non-corrosive tamper resistant fasteners.

C. Install sloping tops, filler panels and end panels fillers using concealed fasteners. Provide flush hairline joints against adjacent surfaces.

D. Install benches by fastening bench tops to pedestals and securely anchoring to the floor using anchors appropriate for the floor material.

E. Attach aluminum number plates using hardware provided by the manufacturer after the lockers are in place.

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.

3.04 PROTECTION

A. Protect installed products until completion of project.

3.05 WARRANTY

A. Locker manufacturer's limited 20-year warranty against delamination or breakage of any of the plastic components under normal use shall apply. Manufacturer's standard limited 1 year warranty against defects in material or workmanship also applies.

END OF SECTION

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