

SECTION-10500

Guide Specification: Lockers and Locker Benches

Royal Plastic Lockers. *(NOTE; some parts of this spec require custom information specific to your project)*

Part 1 –GENERAL

1.1 WORK OF THIS SECTION

- A. The work of this section includes providing solid plastic polymer lockers and Benches.

1.2 RELATED SECTIONS

- A. The WORK of the following Section applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.

- 1. Section 03300 Cast-in-Place Structural Concrete
- 2. Section 08710 Finish Hardware

1.3 CODES

- A. The WORK of this Section shall comply with the current editions of the following codes as adopted by the Local code, if applicable.

- 1. Uniform Building Code

1.4 STANDARD SPECIFICATIONS

- A. Except as otherwise indicated, the current editions of the following apply to the WORK of this Section:

ASTM B 209	Aluminum and Aluminum-Alloy Sheet and Plate
ASTM B 221	Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes
ASTM B 241	Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube

1.5 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:

- 1. Manufacturer's catalogs containing technical data and installation instructions, shop drawings, and colors available.
- 2. Samples of all the materials, finish, and color. The samples shall be clearly marked to show the manufacturer's name and product identification. The manufacturer shall offer scale model and full set of color samples.
- 3. Shop drawings for solid plastic locker benches, verifying all dimensions affecting the installation. Lockers and benches shall be shown in detail, including method of installation, required fillers, trim, and accessories. Locker numbering sequence information shall be provided if indicated.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Delivery of Materials: Products shall be delivered in original, unbroken packages, containers, or bundles bearing the name of the manufacturer.
- B. Storage: Products shall be carefully stored in a manner that will prevent damage and in an area that is protected from the elements.
- C. Solid plastic locker and benches shall not be delivered until the building is enclosed and ready for locker installation.
- D. Solid plastic locker and bench finishes, as well as adjacent surfaces and materials shall be protected from damage or marring during installation.

PART 2 – PRODUCTS

2.1 MATERIALS, GENERAL

- A. Solid Polyethylene Resin: High density, solid polymer resin formed under high pressure, with homogenous color throughout. Provide material with seamless construction with edges rounded and free from saw marks. Colors as selected by the architect from manufacturer's standards.
 - 1. Internal Sides, Shelves, Tops and Bottoms: Fabricated from high impact, high density, polyethylene (HDPE) 3/8" thick with homogenous natural white color throughout.
 - 2. Doors, Door frames, Trim and End panels: Made from high density polyethylene (HDPE) Solid plastic 1/2" thick with homogeneous color throughout. Injection molded components not acceptable.
 - 3. Base; Lockers to be installed on a 3" high base. **(bases are an optional item)**
 - 4. Material Testing: All solid plastic components shall resist deterioration and discoloration when subjected to the following chemicals and tested in accordance with corrosion-testing procedure established by the United States Plastic Corporation:

Acetic Acid 80%	Caustic Soda	Nicotine
Ammonium Phosphate	Cooper Chloride	Lime Sulfur
Acetone	Chlorine Water	Soaps
Ammonia Liquid	Core Oils	Potassium Bromide
Bleach 12%	Hydrochloric Acid 40%	Trisodium Phosphate
Brine	Hydrogen Peroxide 30%	Sodium Bicarbonate
Borax	Isopropyl Alcohol	Urea and Urine
Citric Acid	Lactic Acid 25%	Vinegar
- B. Hardware:
 - 1. Latch: Continuous spring loaded slide latching mechanism that is capable of accepting a padlock and shall be securely fastened to the door. Latch mechanism shall be color matched to the locker, attached to the entire length of the door providing a continuous security latch.
 - 2. Handle: Plastic Handle color matched to locker. ADA compliant operating with less than 5 lbs of force. Latch handle to operate independently of latch bar.
 - 3. Hinges: Continuous, integrated into the full length of the door and locker frame, made from entirely plastic to color match the locker. Metal knuckles or pins not acceptable.
 - 4. Coat Hooks: Two prong type made from high impact plastic attached with theft resistant screws or rivets. One hook per opening in lockers 30" high or greater.

2.2 FABRICATION, GENERAL

- A. Construction: Lockers shall be fabricated square, rigid, and without warp, with faces flat and free of dents, scratches or chips.
- B. Solid plastic locker components shall be secured using dado routing and continuous welds and shall provide a solid and secure construction. Adjacent lockers shall not share a common side panels.
- C. Ventilation: Slotted vents shall be provided in door face as follows:
 - 1. Single and Double-tier lockers shall have not less than 6-slotted openings top and bottom.
 - 2. Multi-tier lockers shall have not less than 6-slotted openings at top.

2.3 LOCKER ACCESSORIES

- A. Locking: Lockers shall be fabricated to receive the following locking devices: **(select one: Padlock Hasp, built in combination lock, coin lock, Digi Lock)**
- B. Number Plates: Number plates shall be manufacturer's standard etched, embossed or stamped, number plates with numerals not less than 3/8 inch high fastened with theft resistant rivets. Lockers shall be numbered in sequence as directed by the architect. Number plates shall be attached to face of each locker door, near the top, centered using factory pre-drilled holes.
- C. Filler Panels: Filler panels shall be provided where indicated or required for a complete installation. Panels shall be fabricated of not less than 1/2 inch solid plastic, and finished to match locker units.

2.4 LOCKER UNITS

- A. Locker units shall conform to the following requirements:
 - 1. Lockers shall consist of **(example: two-person, double tier lockers (sizes by each job need)** for mounting on suitable curb, securely tied in banks as indicated; provided complete with number plates. **(Select type of curb material and show mounting height of base for lockers.)**

2.5 MANUFACTURERS

- A. Products of the types indicated shall be as manufactured by one of the following (or approved equal by architect):

Royal Lockers as Represented by Service Oriented Sales Ph (877) 767-4636

PART 3 – EXECUTION

3.1 LOCKERS

- A. Lockers shall be fastened to the structures in accordance with manufacturer's printed recommendations and in conformance with the Uniform Building Code. Frames and doors shall form a flush exterior when installed. Lockers shall be plumb, level, rigid and securely fastened in banks.
- B. Fastenings shall be spaced not more than 48 inches on center, and applied through back-up reinforcing plates where necessary to avoid distortion. Fasteners shall be concealed insofar as possible.
- C. Locker shall be jointed side by side with stainless steel theft resistant through bolts.

- D. Trim filler panels shall be installed where indicated. Using concealed fasteners to provide flush, hairline joints against adjacent surfaces.

3.2 LOCKER ROOM BENCHES *(option, if needed)*

- A. Bench tops to be 9 ½" wide and 1 ½" thick with all edges machined to a ¼" radius and all exposed edges free of saw marks.
- B. Solid polyethylene resin benches shall be installed in compliance with manufacturer's instruction.
- C. Pedestal leg shall 2" Dia. and base to be 6" Dia. extruded anodized black aluminum.
- D. Secure to floor with stainless steel expansion anchors.

3.3 ADJUST AND CLEAN

- A. Doors and latches shall be adjusted to operate easily without binding. Integral locking devices shall be verified as operating properly.
- B. Marred finishes shall be touched up, but units that cannot be restored to factory-finished appearance shall be replaced. Only materials and procedures recommended or furnished by locker manufacturer shall be used.