

SECTION 10 51 13

METAL LOCKERS

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Metal locker types indicated.
 - 2. [Locker Benches].
- B. Related Sections:
 - 1. Section 05 05 23 - Standards for Anchors and Fasteners.
- C. [Related Work Not in Contract: Provision of padlocks.]

1.02 REFERENCE STANDARDS

- A. ASTM International:
 - 1. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- B. CBC - California Building Code.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. [Coordination:].
- B. [Preinstallation Meeting:]
- C. [Sequencing:]
- D. [Scheduling:]

1.04 [SUSTAINABLE CHARACTERISTICS]

- A. Section 01 35 63 - Sustainability Project Requirements: Requirements for sustainable design compliance.
- B. Materials and Resources Characteristics:
 - 1. [Recycled Content Materials: Furnish materials with maximum available recycled content including:

SPEC NOTE *List materials specified in this section required to have recycled content.*

a. [_____].

- 2. [Regional Materials: Furnish materials extracted, processed, and manufactured within 500 miles of Project site.]

SPEC NOTE *List materials specified in this section required to be regional materials.*

a. [_____].

1.05 SUBMITTALS

- A. See Section 01 33 00 - Submittal Procedures, for submittal procedures.

- B. Product Data.
- C. Shop Drawings of Lockers: Show layout, dimensions, details of construction, fittings, closures, and attachment to adjacent surfaces.
- D. Samples:
 - 1. Metal locker finishes for color verification.
 - 2. [Bench finish for color verification.]
 - 3. Other Samples only as requested.

1.06 [SUSTAINABLE DESIGN SUBMITTALS]

- A. Section 01 35 63 - Sustainability Project Requirements: Requirements for sustainable design submittals.
- B. Manufacturer's Certificate: Certify products meet or exceed specified sustainable design requirements.
 - 1. Materials Resources Certificates:
 - a. Certify source and origin for [salvaged] [and] [reused] products.
 - b. Certify recycled material content for recycled content products.
 - c. Certify source for regional materials and distance from Project site.
- C. Product Cost Data: Submit cost of products to verify compliance with Project sustainable design requirements. Exclude cost of labor and equipment to install products.
 - 1. Provide cost data for the following products:
 - a. [Salvage products.]
 - b. [Reused products.]
 - c. Products with recycled material content.
 - d. Regional products.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Identify type, size, and location of lockers before site delivery in manner not to damage finish.
- B. Store delivered products in clean, safe, dry area.
- C. Protect locker finish surfaces from damage.

PART 2 PRODUCTS

2.01 LOCKER TYPES

- A. Single-Tier Garment:
 - 1. Description:
 - a. Overall Size: 12 inches wide by 18 inches deep by 72 inches high.
 - b. Individual Locker Size: 12 inches wide by 18 inches deep by 72 inches high.
 - c. Shelves: One shelf not more than 12 inches from top of locker.
 - d. Hooks: One double-prong ceiling hook and single-prong hooks at side walls and back of each locker.
 - e. Ventilation: Minimum two louvers at top and bottom of doors.
 - f. [Combination]~~—or—~~[Recessed combination]handle and latch[equipped to receive padlock].]
 - g. [Lock: Keyed.]
 - h. [Lock: Coin and key operated lock.]

- i. [Base: Prefabricated by manufacturer.]
 - j. [Sloping tops.]
 - k. [Provide Accessible Lockers as indicated on the Drawings.]
 - l. [Provide ADA Accessible Lockers with locks as indicated on the Drawings]
 - m. [Accessible Lockers: Minimum of one percent of the lockers (Minimum of one) to be accessible. Locate accessible lockers in lower tier, with accessible hardware between 12 and 40 inches above finished floor. Hardware to meet requirements of CBC Section 1117B.6 and not require grasping, pinching or twisting.]
2. Product: Lyon Workplace Products' "Standard Single Tier Quiet Locker"; Republic Storage Systems LLC's "Single Tier Standard Lockers"; or equal.
- B. Double-Tier Garment:
1. Description:
 - a. Overall Size: 12 inches wide by 18 inches deep by 72 inches high.
 - b. Individual Locker Size: 12 inches wide by 18 inches deep by 36 inches high
 - c. Hooks: One double-prong ceiling hook and single-prong hooks at side walls and back of each locker.
 - d. Ventilation: Minimum two louvers at top and bottom of doors.
 - e. [Combination]—~~or~~—[Recessed combination]handle and latch[equipped to receive padlock].]
 - f. [Lock: Keyed.]
 - g. [Lock: Coin and key operated lock.]
 - h. [Base: Prefabricated by manufacturer.]
 - i. [Sloping tops.]
 - j. [Flat tops.]
 - k. [Provide Accessible Lockers as indicated on the Drawings.]
 - l. [Provide ADA Accessible Lockers with locks as indicated on the Drawings]
 - m. [Accessible Lockers: Minimum of one percent of the lockers (Minimum of one) to be accessible. Locate accessible lockers in lower tier, with accessible hardware between 12 and 40 inches above finished floor. Hardware to meet requirements of CBC Section 1117B.6 and not require grasping, pinching or twisting.]
 2. Product: Lyon Workplace Products' "Standard Double Tier Quiet Locker"; Republic Storage Systems LLC's "Double Tier Standard Lockers"; or equal.
- C. Triple-Tier Garment:
1. Description:
 - a. Overall Size: 12 inches wide by 18 inches deep by 72 inches high.
 - b. Individual Locker Size: 12 inches wide by 18 inches deep by 24 inches high.
 - c. Hooks: One double-prong ceiling hook and single-prong hooks at side walls and back of each locker.
 - d. Ventilation: Minimum two louvers at top and bottom of doors.
 - e. [Combination]—~~or~~—[Recessed combination]handle and latch[equipped to receive padlock].]
 - f. [Lock: Keyed.]
 - g. [Base: Prefabricated by manufacturer.]
 - h. [Sloping tops.]
 - i. [Flat tops.]
 - j. [Provide Accessible Lockers as indicated on the Drawings.]
 - k. [Provide ADA Accessible Lockers with locks as indicated on the Drawings]
 - l. [Accessible Lockers: Minimum of one percent of the lockers (Minimum of one) to be accessible. Locate accessible lockers in lower tier, with accessible hardware between 12 and 40 inches above finished floor. Hardware to meet requirements of CBC Section 1117B.6 and not require grasping, pinching or twisting.]
 2. Product: Lyon Workplace Products' "Standard Triple Tier Quiet Locker"; Republic Storage Systems LLC's "Triple Tier Standard Lockers"; or equal.

- D. Multiple-Tier Box Locker, Six High:
1. Description:
 - a. Overall Size: 12 inches wide by 18 inches deep by 72 inches high.
 - b. Individual Locker Size: 12 inches wide by 18 inches deep by 12 inches high.
 - c. Ventilation: Minimum two louvers at top and bottom of doors.
 - d. [Combination]~~—or—~~[Recessed combination]handle and latch[equipped to receive padlock].]
 - e. [Lock: Keyed.]
 - f. [Lock: Coin and key operated lock.]
 - g. [Base: Prefabricated by manufacturer.]
 - h. [Sloping tops.]
 - i. [Provide Accessible Lockers as indicated on the Drawings.]
 - j. [Provide ADA Accessible Lockers with locks as indicated on the Drawings]
 - k. [Accessible Lockers: Minimum of one percent of the lockers (Minimum of one) to be accessible. Locate accessible lockers in lower tier, with accessible hardware between 12 and 40 inches above finished floor. Hardware to meet requirements of CBC Section 1117B.6 and not require grasping, pinching or twisting.]
 2. Product: Republic Storage Systems LLC’s “6-High Box Standard Lockers”; or equal
- E. Two-Person Locker with Hat and Coat Compartment:
1. Description:
 - a. Overall Size: 18 inches wide by 18 inches deep by 72 inches high.
 - b. Hooks:
 - 1) Lockers 18 or More Inches Deep: Single-prong at side walls and coat hanger rod.
 - 2) Lockers Less than 18 Inches Deep: Single-prong hooks at side and rear walls.
 - c. Ventilation: Minimum 2 louvers at top and bottom of hat compartment and minimum six louvers at top and bottom of coat compartment.
 - d. Lockers shall have interlocking device such that lower door controls locking of respective hat compartment door.
 - e. [Combination]~~—or—~~[Recessed combination]handle and latch[equipped to receive padlock].]
 - f. [Lock: Keyed.]
 - g. [Lock: Coin and key operated lock.]
 - h. [Base: Prefabricated by manufacturer.]
 - i. [Sloping tops.]
 - j. [Provide Accessible Lockers as indicated on the Drawings.]
 - k. [Provide ADA Accessible Lockers with locks as indicated on the Drawings]
 - l. [Accessible Lockers: Minimum of one percent of the lockers (Minimum of one) to be accessible. Locate accessible lockers in lower tier, with accessible hardware between 12 and 40 inches above finished floor. Hardware to meet requirements of CBC Section 1117B.6 and not require grasping, pinching or twisting.]
 2. Product: Lyon Workplace Products’ “Standard Two Person Quiet Locker”; Republic Storage Systems LLC’s “Two Person Standard Lockers”; or equal.

2.02 [BENCHES]

- A. Description:
1. Design: Ventwood bench consisting of wood slates with oak doweling and T- legs.
 2. Bench Width: [12]~~--or--~~[16] inches]~~--or--~~[As indicated on Drawings].
 3. Bench Length: [24]~~--or--~~[36]~~--or--~~[48]~~--or--~~[60]~~--or--~~[72]~~--or--~~[84]~~--or--~~[96] inches]~~--or--~~[As indicated on Drawings].
 4. Bench Height: 17 inches.

2.03 BASIC LOCKER MATERIALS AND COMPONENTS

- A. Sheet Steel:
 - 1. For Doors, Door Frames, and Finished End Panels: ASTM A653/A653M, commercial quality, cold-rolled and stretcher-leveled sheet steel, minimum 16 gauge.
 - 2. For Bodies, [Sloping Tops,] and Closed Base: Mild cold-rolled sheet steel, minimum 24 gauge.
 - 3. Shelves, Filler Panels, Closures, and Trim: Mild cold-rolled sheet steel, gauge as standard with manufacturer.
- B. Lock Bars: Channel-formed steel with latching fingers to operate independently of bar such that lock bar drops into locked position immediately after door is opened and handle released. Provide typically except at box lockers. Lockers 48 inches and less high shall have at least two locking points; lockers greater than 48 inches high shall have at least three locking points.
- C. Handles: Die-cast zinc alloy, chromium-plated; with provision for padlock such that handle case serves as protective strike. Handle to shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of wrist to operate. [Provide typically except at box lockers.]
- D. Hinges: Two inch, tight pin, five knuckle butt type fabricated from heavy gauge cold-rolled steel.
- E. Locks: Provide manufacturer's standard lock assembly to receive padlocks.
- F. Hasp for Padlock: Plastic-laminate-clad locker manufacturer' standard.
- G. Hooks: Steel with ball points.
- H. Silencers: Rubber. Provide to minimize noise wherever metal strikes against metal.
- I. Number Plates: Polished aluminum with black numbers 1/2 inch high. Unless otherwise indicated or directed attach number plates in numerical order starting from No. 1 in each room containing lockers.
- J. Wood Slats for Benches: Clear vertical grain, Douglas fir.
- K. Bench Legs: Steel
- L. Exposed Fasteners: Rustproof. Where bolts are exposed, provide slotless head type with shake proof washers.

2.04 FABRICATION

- A. Preparation: Verify dimensions at job site.
- B. Frames:
 - 1. Make faces flush without overlapping cross-members; weld joints.
 - 2. Provide door strike and silencers where necessary to curtail noise of closing.
 - 3. Extend upright members to floor to form legs where required.
- C. Bodies:
 - 1. Form sheets as necessary for tight joints and rigid body.
 - 2. Rivet or bolt sheets to each other and frames.
- D. Doors:
 - 1. Form at least 1 right angle flange continuous on four sides.
 - 2. Provide integral louvers where noted; louver profile as standard with manufacturer.

- E. Hinges:
 - 1. Provide two hinges on doors 42 inches and less; three hinges on doors greater than 42 inches.
 - 2. Expose only pin portion to exterior.
- F. [Sloping Tops: Provide where noted; minimize joints; reinforce where required; and provide closures for open ends where occurring. Miter at corners to cover voids.]
- G. [Finished End Panels: Provide where end of lockers are exposed. Panel shall have no holes.]
- H. Number Plates: Unless otherwise indicated or directed attach number plates in numerical order starting from No. 1 at each room containing lockers.

2.05 FINISHES

- A. Lockers:
 - 1. Steel:
 - a. After forming and welding, thoroughly clean, phosphatize, electrostatically apply heavy coat high quality enamel, baked-on.
 - b. Color: As indicated on Drawings.
 - 2. Exposed Fasteners: Same as steel or noncorrosive white metal finish.
- B. Wood Bench Slats: Manufacturer's standard clear satin finish.
- C. Bench Legs: Black powder coated.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine areas to receive lockers and verify that:
 - 1. Bases not included in work of this Section have been properly prepared.
 - 2. Backing not included in work of this Section is correct.
- B. Do not start work until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Assemble and install lockers [and benches]in accordance with approved manufacturer's specifications.
- B. Set lockers in place, accurately aligned, level, plumb, and flush with planes of adjacent surfaces.
- C. Fasten lockers securely to one another, horizontal supporting surfaces and backing.
- D. [Place and secure lockers on prepared base.]
- E. Secure lockers with anchor devices to suit substrate materials. Minimum Pullout Force: 100 pounds.
- F. Adjust doors and latches/locks to operate easily without bind.
- G. Replace any defective doors or other components.

3.03 CLEANING

- A. Clean locker interiors and exterior surfaces.

END OF SECTION