Section 10 51 13

Lockers MFG Knock Down Lockers

SECTION 10 51 13 – METAL LOCKERS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

 A. Section Includes:

1. Knockdown Lockers.

 2. Locker Benches.

1.03 SUBMITTALS

A. Shop Drawings: Dimensioned drawings, including plans, elevations, and sections to show locker locations and interfaces with adjacent substrates.

B. Color Samples: Manufacturer’s color samples showing the full range of colors available.

C. Product Data:

 1. Preparation instructions and recommendations.

2. Storage and handling requirements and recommendations.

 3. Installation methods

D. Field Dimensions: Verify that drawings with the actual dimensions of the areas receiving the lockers must be submitted to the manufacturer prior to fabrication of the lockers and accessories.

1.04 QUALITY ASSURANCE

A. Regulatory Requirements: Where metal lockers are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance

Board's "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA)

 Accessibility Guidelines for Buildings and Facilities" and ICC/ANSI A117.1.

B. Source Limitations: Provide lockers and benches from a single manufacturer to ensure uniformity.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Store products in the manufacturer’s unopened packaging until ready for installation to protect the locker finish and adjacent surfaces from damage.

1.06 WARRANTY

1. Manufacturer’s Standard Limited Lifetime Warranty against defective parts and workmanship, excluding vandalism and improper installation and use.

* 1. CONSTRUCTION REQUIREMENTS

A. All lockers shall be powder-coated steel as designed and manufactured by Lockers Manufacturing. Lockers Manufacturing will furnish all labor and materials for the completion of work in this section, as shown in the approved drawings and specifications.

PART 2 - PRODUCTS

2.01 MANUFACTURER

A. Lockers Manufacturing, located at 209 Pearson Steet, Batesville, MS 38606: Phone: 662-338-4340; Email: sales@lockermfg.com; Website: [www.lockermfg.com](http://www.lockermfg.com/).

B. Request for substitutions will be evaluated only if they are submitted with supporting documents to show that they are equal to or better than these specification standards.

2.02 PERFORMANCE AND DESIGN REQUIREMENTS

A. Lockers shall be GREENGUARD Gold Certified by UL Environment through the GREENGUARD Certification Program.

B. Lockers shall be SCS Global Services Indoor Advantage Gold Certified through the SCS Indoor Advantage Certification Program.

2.03 MATERIAL

A. Steel parts shall be mild cold-rolled commercial quality steel, capable of taking a high-grade enamel finish.

B. Rivets: Steel mandrel rivets

C. Bolts and Nuts: Zinc-plated truss fin head bolts and hex nuts.

2.04 KNOCKDOWN LOCKERS

A. Basis of Design: Knockdown Series by LockersMFG. Louvered doors.

1. Tier:

2. Width:

3. Depth:

4. Height:

5. Dimensions:

B. Door Frames: Shall be 16-gauge (0.0598-inch) formed in a channel shape with continuous vertical door strike.

C. Door: 16-gauge (0.0598-inch) steel formations are full channel shape on the lock side adequate depth to fully conceal the lock bar, channel formation on the hinge side, and right- angle formations across the top and bottom.

1. Doors 12” wide and over or 20" high are 16-gauge sheet steel. Doors less than 12" wide are 18-gauge sheet steel.

2. Doors over 15” wide by 60" or 72" high: includes a 3" wide 16-gauge full height reinforcing pan welded to inside face of door at 6" centers.

D. Ventilation: Louvered doors in manufacturer's standard louver pattern. Optional ventilation patterns available upon request. (Full louvers, mini louvers, solid, rectangular perforations, diamond perforations).

E. Body: Steel specially formed for added strength and rigidity and to ensure tight joints at fastening points.

1. Bottoms: 16-gauge (0.0598-inch) sheet steel, notched and formed sheet; one continuous bottom for each group of lockers.

2. Tops: 24-gauge (0.0239-inch) sheet steel, notched and formed sheet.

3. Sides: 24-gauge (0.0239-inch) sheet steel.

4. Backs: 24-gauge (0.0239-inch) sheet steel.

5. Shelves: 24-gauge (0.0239-inch) sheet steel, flanged four sides with additional return flange on front edge to increase strength.

6. Legs: 6” legs are standard. Without legs optional.

F. Door Handle: Handles shall be recessed in the door.

1. Drawn pocket shall be 20-gauge (0.0359-inch) brushed stainless steel securely fastened to the door with two tabs plus a positive tamper resistant fastener. The pocket shall be of sufficient depth for a combination padlock, built-in combination lock or key lock from protruding beyond the face of the door.

G. Latching: Shall be multi-point latch.

1. A lock hole cover plate shall be provided for use with padlocks.

2. On single, double, triple, and two-person lockers the lift trigger shall be 14-gauge (0.0747-inch) formed steel, attached to the latching channel with one concealed retaining lug and one rivet.

3. Four, five and six tier lockers shall have an 11-gauge frame hook secured to the frame.

3. The handle finger lift shall have a padlock eye for use with a 9-32” diameter padlock shackle. It shall have a sound-deadening molded comfortable finger lift.

4. Doors to have latch clip engaging the door frame at three points on doors over 42” high and two points on all other doors.

5. Locking device to be positive, automatic type, whereby locker door may be locked when opened, then closed without unlocking.

6. One rubber silencer shall be firmly secured in the frame at each latch hook.

7. Latch clips shall be glass-filled nylon.

8. Latch hooks on diamond perforated lockers shall have tamper guards.

H. Hinges: Shall be 16-gauge (0.0598-inch) continuous piano-type hinge welded to the door and riveted to the frame for the full height of the door. Optional 2” high, double spun, full loop tight pin, five knuckle butt hinge welded to the frame and riveted to door.

I. Box Lockers: Channel formations on lock and hinge sides, right angle flanges on top and bottom; pre‐punch doors for padlock latch and friction catch and built-in combination and key locks

J. Interior Equipment: Single-tier lockers 48” or higher shall have a shelf. When under 18" deep, locker shall have 3 wall hooks and one ceiling hook. Single-tier lockers 18" deep or more shall have a coat rod instead of one ceiling hook. Triple-tier lockers shall have three wall hooks for 12" and 4 wall hooks for 15" and wider lockers.

1. All hooks are zinc-plated steel with ballpoint heads and are attached with two fasteners.

K. Number Plates: Provide holes for attaching number plates. Each locker shall have a polished aluminum number plate riveted to door face with black numerals ½” high.

L. Finish: All components shall have a hybrid epoxy/polyester powder, electrostatically applied to ensure a uniform finished and baked to cure.

1. Powder-coat dry thickness is a minimum 2 mm thick.

2. Color: As selected by Architect from manufacturer’s full range.

3. Special Color/Finish

a. Custom color

b. Anti-Graffiti

c. Anti-Microbial

2.05 ACCESSORIES (Optional)

A. Zee Bases for Knock Down Lockers: 14-gauge (0.0747-inch), steel flanged outward at the top for support of lockers, flanged inward at bottom for anchoring to the floor.

B. Closed Bases: 18-gauge (0.0478-inch) closed metal front and end bases, finished to match lockers.

C. Continuous Sloped Hoods: 18-gauge (0.0478-inch) steel, slope rise equal to 1/3 of the locker depth. (18.5 degrees), plus a 1” vertical rise at front. Provide necessary end closures and finish to match lockers.

D. Unit Slope Tops for Standard Duty Lockers: 24-gauge (0.0239-inch) steel, slope rise equal to 1/3 of the locker depth, finish to match lockers.

E. Exposed End Panels: Minimum 16-gauge (0.0598-inch) steel formed to match locker depth and height. Punched with perimeter holes only.

F. Finished Box End Panels: Minimum 16-gauge (0.0598-inch) steel formed to match locker depth and height, 1” edge dimension; finish to match lockers; install with concealed fasteners.

G. Front Fillers: 20-gauge (0.0359-inch) steel formed in an angle shape, with 20-gauge (0.0359- inch) slip joint angles formed in an angle shape with a double bend on one leg forming a pocket to provide adjustable mating with angle filler. Attachment utilizing concealed fasteners finish to match lockers.

H. Top Fillers: 20-gauge (0.0359-inch) steel.

I. Recess Trim: 18-gauge (0.0478-inch) steel, 3" face dimension. Vertical and/or horizontal as required. Standard lengths as long as practical; attaches to lockers with concealed clips. Provide necessary finish caps and splices. Finish to match lockers.

J. Benches: Laminated selected hardwood, 1‐1/4" full finished thickness, corners rounded and sanded, surfaces finished with two coats of clear lacquer.

K. Heavy Duty Bench Pedestals:Steel tubing with 10-gauge (0.1345-inch) steel flanges welded to each end, 16‐1/4" high, and finish to match lockers.

L. Stainless-Steel Free-Standing Bench Pedestal:2" diameter brushed 16-gauge (0.0598-inch) stainless steel formed into a trapezoid, 14" wide bottom with two 5/16" diameter holes, top flange with four 5/16" diameter holes for fastening to bench.

M. Locks:

1. Built-in flat key locks; master key same to series.

2. Built-in grooved key Locks (pin tumbler); master key to same series.

3. 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.

4. Padlocks: Master keyed three number dialing combination type padlocks; provide master key. Mechanism must be resistant to “shimming.”

2.06 BUILT-IN STANDARD SUPERIOR QUIET LOCKER FEATURES

A. The Design Specifications: Interior welded double strength plate welded to the door. Fabricated from 16-gauge (0.0598-inch) or 18-gauge (0.0478-inch) steel sheet; formed into channel shape with double a bend at vertical edges and with a single right‐angle bend at the horizontal edges. The doors can be equipped with quiet handles and silencing latches.

B. Quiet Handles: Stainless steel recessed handle with plastic‐protected lifting trigger, designed to accept padlock or built-in locks.

C. Silencing Latches: Nearly silent multi‐point latching on heavy gauge frame hooks with rubber buffers that smoothly reduce noise and contact. There is a concealed quiet lock bar that is locked into place and restricts metal‐to‐metal noise contact by polyethylene glides.

D. U-Shaped Channel Glide: The spider plastic component tops the inside of the galvanized latch channels, so there is no rattling within the latch bar cavity.

E. Sound Dampening Panels: LockersMFG standard, designed to stiffen doors and reduce sound levels when doors are closed, of die‐formed metal with full perimeter flange and sound‐dampening design and material; welded to inner face of doors. Sound‐dampening panels are attached horizontally or vertically depending upon the design of the locker.

2.07 FABRICATION

A. Pre-assemble locker by riveting into one-piece structures; maximum width of groups to be 54”.

1. Fabricate locker square, rigid, without warp, with metal faces and free of distortion.

PART 3 - EXECUTION

3.01 PREPARATION

A. Verify that base is level. Do not begin installation until the base has been properly prepared. If bases or substrates are unsatisfactory, notify Architect immediately before proceeding.

1. Clean surfaces thoroughly prior to installation.

3.02 INSTALLATION

A. Lockers shall be installed in compliance with Lockers Manufacturing installation instructions and shall be level and plumb with flush surfaces and rigid attachment to anchoring surfaces.

1. Bolt adjoining locker units together to provide rigid installation.

2. Assembly by bolting is acceptable, Lockers Manufacturing recommends assembly by riveting.

3. Install sloping tops and metal fillers using concealed fasteners. Provide flush hairline joints against adjacent surfaces.

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

B. Anchor lockers to floor and wall

1. Anchor lockers to floor and wall at 48 inches or less, as recommended by the manufacturer.

C. With factory supplied paint and repair or replace damaged products before substantial completion.

3.03 ADJUST AND CLEAN

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.

END OF SECTION