

**SECTION 10 51 13  
METAL LOCKERS**

**PART 1 - GENERAL**

**1.1 SUMMARY**

A. Section Includes:

1. Standard metal lockers.
2. Locker Benches.
3. Locker room garment racks.

B. Related work:

1. Seismic Restraint for Non-Structural Components: Section 13 05 41, SEISMIC RESTRAINT FOR NON-STRUCTURAL COMPONENTS.

**1.2 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of metal locker.
- C. Shop Drawings: For metal lockers. Include plans, elevations, sections, details, and attachments to other work.
  1. Show locker trim and accessories.
  2. Include locker identification system and numbering sequence.
- D. Samples for Initial Selection: For units with factory-applied color finishes.
- E. Samples for Verification: For metal lockers, in manufacturer's standard sizes.
- F. Qualification Data: For qualified Installer.
- G. Warranty: Sample of special warranty.

**1.3 CLOSEOUT SUBMITTALS**

- A. Maintenance Data: For adjusting, repairing, and replacing locker doors and latching mechanisms to include in maintenance manuals.

**1.4 QUALITY ASSURANCE**

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Source Limitations: Obtain metal lockers and accessories from single source from single manufacturer.
- C. Regulatory Requirements: Where metal lockers are indicated to comply with accessibility requirements, comply with Americans with Disabilities Act and Architectural Barriers Act Accessibility Guidelines (ADAABAAG) as prepared by the U. S. Access Board.
- D. Preinstallation Conference: Conduct conference at Project site.

**1.5 DELIVERY, STORAGE, AND HANDLING**

- A. Do not deliver metal lockers until spaces to receive them are clean, dry, and ready for their installation.

## **1.6 PROJECT CONDITIONS**

- A. Field Measurements: Verify actual dimensions of recessed openings by field measurements before fabrication.

## **1.7 COORDINATION**

- A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of work specified in other Sections to ensure that metal lockers can be supported and installed as indicated.

## **1.8 WARRANTY**

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal lockers that fail in materials or workmanship, excluding finish, within specified warranty period.
1. Failures include, but are not limited to, the following:
    - a. Structural failures.
    - b. Faulty operation of latches and other door hardware.
  2. Damage from deliberate destruction and vandalism is excluded.
  3. Warranty Period for Knocked-Down Metal Lockers: Two years from date of Substantial Completion.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B, suitable for exposed applications.
- B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with A60 (ZF180) zinc-iron, alloy (galvannealed) coating designation.
- C. Stainless-Steel Sheet: ASTM A 666, Type 304.
- D. Extruded Aluminum: ASTM B 221 (ASTM B 221M), alloy and temper recommended by aluminum producer and manufacturer for type of use and finish indicated.
- E. Fasteners: Zinc- or nickel-plated steel, slotless-type, exposed bolt heads; with self-locking nuts or lock washers for nuts on moving parts.
- F. Anchors: Material, type, and size required for secure anchorage to each substrate.
1. Provide nonferrous-metal or hot-dip galvanized anchors and inserts on inside face of exterior walls, and elsewhere as indicated, for corrosion resistance.
  2. Provide toothed-steel or lead expansion sleeves for drilled-in-place anchors.

### **2.2 STANDARD METAL LOCKERS**

- A. Locker Size/Configuration[ML-1]:
1. Width: 12 inches.
  2. Depth: 12 inches.
  3. Height: 72 inches.

4. Configuration: 6-tier.
  5. Tops: Sloped.
  6. Base: 4 inch height.
  7. Lock: Padlock hasp.
- B. Material: Cold-rolled steel sheet.
- C. Body: Assembled by riveting or bolting body components together. Fabricate from unperforated steel sheet as follows:
1. Tops and Intermediate Dividers: 0.024-inch (0.61-mm) nominal thickness, with single bend at sides.
  2. Backs and Sides: 0.024-inch nominal thickness, with full-height, double-flanged connections.
  3. Shelves: 0.024-inch nominal thickness, with double bend at front and single bend at sides and back.
  4. Bottoms: 0.053 inch nominal thickness, with single bend at sides.
- D. Frames: Channel formed; fabricated from 0.060-inch (1.52-mm) nominal-thickness steel sheet; lapped and factory welded at corners; with top and bottom main frames factory welded into vertical main frames. Form continuous, integral door strike full height on vertical main frames.
1. Cross Frames between Tiers: Channel formed and fabricated from same material as main frames; welded to vertical main frames.
- E. Doors: One piece; fabricated from 0.060-inch (1.52-mm) nominal-thickness steel sheet; formed into channel shape with double bend at vertical edges and with right-angle single bend at horizontal edges.
1. Reinforcement: Manufacturer's standard reinforcing angles, channels, or stiffeners for doors more than 15 inches (381 mm) wide; welded to inner face of doors.
  2. Door Style: Vented panel as follows:
    - a. Louvered Vents.
- F. Hinges: Welded to door and attached to door frame with no fewer than two factory-installed rivets per hinge that are completely concealed and tamper resistant when door is closed; fabricated to swing 180 degrees.
1. Knuckle Hinges: Steel, full loop, five or seven knuckles, tight pin; minimum 2 inches (51 mm) high. Provide no fewer than three hinges for each door more than 42 inches (1067 mm) high.
- G. Accessible lockers: Provide 5% accessible lockers in each area of locker installation.
- H. Accessories:
1. Continuous Zee Base: Fabricated from manufacturer's standard thickness, but not less than 0.060-inch nominal-thickness steel sheet.
    - a. Height: 4 inches.
  2. Continuous Sloping Tops: Fabricated from 0.048-inch (1.21-mm) nominal-thickness steel sheet.
    - a. Closures: Vertical-end type.

- b. Sloping-top corner fillers, mitered.
- 3. Recess Trim: Fabricated from 0.048-inch (1.21-mm) nominal-thickness steel sheet.
- 4. Filler Panels: Fabricated from 0.048-inch (1.21-mm) nominal-thickness steel sheet.
- 5. Finished End Panels: Fabricated from 0.024-inch (0.61-mm) nominal-thickness steel sheet.
- I. Finish: Baked powder coat.
  - 1. Color: As selected by Architect from Manufacturer's standard colors.

## **2.3 ADA COMPLIANT BENCHES**

### **A. Laminated Hardwood Benches**

- 1. Top: Laminated hardwood with clear coat finish
  - a. Size: 9-1/2 inches wide by 1-1/4 inches thick by 3 feet long.
  - b. Finish: Acrylic, 2 coats.
- 2. Pedestals: Type 6105-T5, 2 pieces, 2-1/4 inches by 3/4 inch, formed and unit welded].
  - a. Finish: Same as lockers.

## **2.4 LOCKER ROOM GARMENT RACKS**

### **A. Wall mounted garment racks for individual hangers.**

- 1. 16 gage stainless steel, 48 inches long, 1-5/8 inch tube diameter. Basis of Design Advance Tabco model WGR-4.

## **2.5 FABRICATION**

- A. Fabricate metal lockers square, rigid, and without warp and with metal faces flat and free of dents or distortion. Make exposed metal edges safe to touch and free of sharp edges and burrs.
  - 1. Form body panels, doors, shelves, and accessories from one-piece steel sheet unless otherwise indicated.
  - 2. Provide fasteners, filler plates, supports, clips, and closures as required for complete installation.
- B. Fabricate each metal locker with an individual door and frame; individual top, bottom, and back; and common intermediate uprights separating compartments. Factory weld frame members of each metal locker together to form a rigid, one-piece assembly.
- C. Knocked-Down Construction: Fabricate metal lockers using nuts, bolts, screws, or rivets for nominal assembly at Project site.
- D. Accessible Lockers: Fabricate as follows:
  - 1. Locate bottom shelf no lower than 16 inches (381 mm) above the floor.
  - 2. Where hooks, coat rods, or additional shelves are provided, locate no higher than 44 inches (1219 mm) above the floor.
  - 3. Locking: Padlock Hasp.

- E. Identification Plates: Manufacturer's standard, etched, embossed, or stamped aluminum plates, with numbers and letters at least 3/8 inch (9 mm) high.
- F. Continuous Base: Formed into channel or zee profile for stiffness, and fabricated in lengths as long as practical to enclose base and base ends of metal lockers; finished to match lockers.
- G. Continuous Sloping Tops: Fabricated in lengths as long as practical, without visible fasteners at splice locations; finished to match lockers.
  - 1. Sloping-top corner fillers, mitered.
- H. Finished End Panels: Designed for concealing unused penetrations and fasteners, except for perimeter fasteners, at exposed ends of nonrecessed metal lockers; finished to match lockers.
- I. Locker Benches: Install locker benches by fastening bench tops to pedestals and securely anchoring to floor using appropriate anchors.

## **2.6 STEEL SHEET FINISHES**

- A. Products shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- B. Factory finish steel surfaces and accessories except stainless-steel and chrome-plated surfaces.
- C. Powder-Coat Finish: Immediately after cleaning and pretreating, electrostatically apply manufacturer's standard, baked-polymer, thermosetting powder finish. Comply with resin manufacturer's written instructions for application, baking, and minimum dry film thickness.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Examine walls, floors, and support bases, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.2 INSTALLATION**

- A. General: Install level, plumb, and true; shim as required, using concealed shims.
  - 1. Anchor locker runs at ends and at intervals recommended by manufacturer, but not more than 24 inches (910 mm) o.c. Using concealed fasteners, install anchors through backup reinforcing plates, channels, or blocking as required to prevent metal distortion.
  - 2. Anchor single rows of metal lockers to concrete base and walls near top and bottom of lockers.
- B. Knocked-Down Metal Lockers: Assemble with standard fasteners, with no exposed fasteners on door faces or face frames.

- C. Equipment and Accessories: Fit exposed connections of trim, fillers, and closures accurately together to form tight, hairline joints, with concealed fasteners and splice plates.
1. Attach hooks with at least two fasteners.
  2. Attach door locks on doors using security-type fasteners.
  3. Identification Plates: Identify metal lockers with identification indicated on Drawings.
    - a. Attach plates to each locker door, near top, centered, with at least two aluminum rivets.
  4. Attach recess trim to recessed metal lockers with concealed clips.
  5. Attach filler panels with concealed fasteners. Locate filler panels where indicated on Drawings.
  6. Attach sloping-top units to metal lockers, with closures at exposed ends.
  7. Attach finished end panels with fasteners only at perimeter to conceal exposed ends of nonrecessed metal lockers.

### **3.3 ADJUSTING, CLEANING, AND PROTECTION**

- A. Clean, lubricate, and adjust hardware. Adjust doors and latches to operate easily without binding. Verify that integral locking devices operate properly.
- B. Protect metal lockers from damage, abuse, dust, dirt, stain, or paint. Do not permit use during construction.
- C. Touch up marred finishes, or replace metal lockers that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by locker manufacturer and meeting VOC requirements.

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