

SECTION 105100
METAL LOCKERS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes:
 - 1. Knocked-down, standard metal lockers.
- B. Related Sections:
 - 1. Division 23 Sections for mechanical exhaust systems connected to metal lockers.

1.2 SUBMITTALS FOR REVIEW

- A. Submittals: Follow Section 013000.
- B. Submit shop drawings for metal lockers, verifying dimensions affecting locker installations. Show lockers in detail, method of installation, fillers, trim, base and accessories. Include locker numbering sequence information.
- C. Submit manufacturer's technical data for metal locker units.

1.3 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in manufacturing the products of this Section with five years experience.
- B. Installer: Company specializing in installing the products of this Section with three years experience approved by manufacturer.
- C. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication of special components to ensure proper fitting of work. Allow for adjustment and fitting of trim and filler panels wherever taking of field measurements before fabrication might delay work.
- D. Uniformity: Provide each type of metal locker as produced by a single manufacturer, including necessary mounting accessories, fittings and fastenings.
- E. Accessible Lockers: Provide a minimum of 5 percent of total locker count, but never less than one locker as accessible lockers according to ADA requirements.

1.4 PROJECT CONDITIONS

- A. Do not deliver metal lockers until building is enclosed and ready for locker installation. Protect lockers and adjacent surfaces from damage during delivery, handling, storage and installation.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Sheet Steel: Mild cold-rolled steel, ASTM A 1008/A 1008M, Commercial Steel (CS), Type B, suitable for exposed applications; stretcher-leveled, free from buckle, scale and surface imperfections in minimum thicknesses as follows:
- B. Fasteners: Cadmium, zinc, or nickel plated steel; exposed bolt heads, slotless type; self-locking nuts or locker washers for nuts or moving parts.

2.2 STANDARD METAL LOCKERS

- A. Locker Arrangement: Double tier.
- B. Frames: Fabricate of 16 gage channels or 12 gage angles, minimum, with continuous stop/strike formed on vertical members.
- C. 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. Reinforcing: Provide extra bracing or reinforcing on inside of doors over 15 inches wide and over 60 inches in height.
 - 2. Ventilation: Provide diamond-shaped, stamped, louvered vents in door face, as follows:
 - a. Double tier lockers: Not less than 3 louver openings top and bottom.
 - 3. Acoustical Treatment: Provide construction treatment designed, built, and installed to reduce noise of locker operation, including protected sound absorbing material within door, nylon or plastic coatings on operating components to prevent metal-to-metal contact and latching mechanism designed, built, and installed to operate without rattling.
- D. Hinges: Heavy duty, full loop, 5-knuckle, tight pin, 2 inches high. Weld to inside of frame and secure to door with not less than 2 factory installed fasteners which are completely concealed and tamperproof when door is closed.
 - 1. Provide at least 3 hinges for each door over 42 inches high and at least 2 hinges for each door less than 42 inches high.
- E. Latching: Positive automatic, pre-locking, pry-resistant latch and pull with rubber silencers; stainless steel, recessed handle and latch, heavy duty, vandal-proof lift up handle, containing strike and hole for padlock; and with mechanism as follows:

- 1. Double tier lockers: Not less than 2-point latching.
- F. Locking: Fabricate lockers to receive padlocks to be provided by Owner.
- G. Interior Equipment: Furnish each locker with the following items.
 - 1. Double-Tier Units: One double-prong ceiling hook and not less than 2 single-prong wall hooks.
- H. Filler Panels: Provide filler panels where indicated, of not less than 16 gage steel sheet, factory-fabricated and finished to match locker units.

2.3 FABRICATION

- A. Construction: Fabricate lockers square, rigid and without warp, with metal faces flat and free of dents or distortion. Make exposed metal edges safe to touch.
- B. Knock Down: Provide knock-down lockers for site assembly. Do not expose bolts or rivet heads on fronts of locker doors or frames. Bolt or rivet spacing in body not to exceed 9" o.c.
- C. ADA Compliant Lockers: Provide recessed handles; single tier or lower opening of a double tier locker; locker bottom a minimum of 15" off floor; single tier lockers shall have a shelf 48" off floor; provide appropriate handicapped sign.
- D. Number Plates: Manufacturer's standard etched, embossed, or stamped, non-ferrous metal number plates with numerals not less than 1/2 inches high. Number lockers in sequence. Attach plates to each locker door, near top, centered, with at least 2 fasteners of same finish as number plate.
- E. Color: Provide locker units in champaign/putty for doors and frames. Concealed parts may be manufacturer's standard neutral color.
- F. Trim: Provide trim at jambs and head of recessed lockers, consisting of not less than 18 gage cold-rolled steel, 2 inches or 3 inches wide as necessary. Factory finish trim to match lockers. Secure trim to lockers with concealed fastening clips.

2.4 STEEL SHEET FINISHES

- A. Factory finish steel surfaces and accessories except stainless-steel and chrome-plated surfaces.
- B. 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 INSTALLATION

- A. Verify bases are properly sized and located.
- B. Install metal lockers at locations shown according to manufacturer's instructions for plumb, level, rigid and flush installation.
- C. Bolt adjoining lockers together to provide rigid installation.
- D. Space fastenings at 36 inches on center, unless otherwise recommended by manufacturer and apply through back-up reinforcing plates where necessary to avoid metal distortion; conceal fasteners insofar as possible.
- E. Install trim, sloping top units and metal filler panels where indicated, using concealed fasteners to provide flush, hairline joints against adjacent surfaces. Provide false fronts where lockers are obstructed (columns or duct spaces).

3.2 ADJUSTING AND CLEANING

- A. Adjust doors and latches to operate easily without binding. Verify that integral locking devices are operating properly.
- B. Touch-up marred finishes, but replace units which cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by locker manufacturer.

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