

SECTION 12400 – LOCKERS

PART 1 - GENERAL

1.1. REFERENCES

1.1.1. External References:

ADAAG - Americans with Disabilities Act, Accessibility Guidelines.

ASTM A 1008 - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.

ADA parallel reach requirements.

ADA forward reach requirements.

1.1.2. Related Sections

- 1.1.2.1. Section 06100 - Miscellaneous Rough Carpentry for securing lockers to bases and walls.

1.2. SUBMITTALS

- 1.2.1. Comply with Division 1 and all Contract Document Submittal Procedures
- 1.2.2. Provide manufacturer's product data
- 1.2.3. Shop drawings showing plan and elevation with clearance requirements, accessories and anchoring detail
- 1.2.4. Provide numbering system and lock control chart
- 1.2.5. Manufacturer's standard color charts suitable for color selection

1.3. DELIVERY, HANDLING, AND STORAGE

- 1.3.1. Storage: Store materials in clean, dry, indoor areas.
- 1.3.2. Handling: Protect materials and finish during handling and installation to prevent damage to lockers or adjacent work.

1.4. FIELD MEASUREMENTS

To ensure proper fits, make field measurements prior to the preparation of drawings and fabrication. Verify correct location.

1.5. QUALITY ASSURANCE

Provide lockers from a manufacturer with a minimum of 10 years experience with a similar product and with a one (1) year warranty. Install by a crew with a minimum of 10 years experience with a similar product and with a one year warranty.

1.5.1. Manufacturers:

- a. InnerSpace Engineering
- b. Or accepted equal.

PART 2 - PRODUCTS

1.6. GRADE

- 1.6.1. High-Pressure Laminate Surface with phenolic cores at all sides and door panels, to include all hardware, locking mechanisms, and attachment/mounting fasteners.
- 1.6.2. Provide concealment panels at all ends, tops and exposed corners as provided by manufacturer.

1.7. TYPES

- 1.7.1. Full size, single wardrobe lockers.
- 1.7.2. Z-style, dual unit lockers.

1.8. SIZES

Locker area configuration as shown on Drawings.

- 1.8.1. Widths: 16"
- 1.8.2. Depths: 18"
- 1.8.3. Door Heights: 72"
- 1.8.4. Frame Heights: 72"
- 1.8.5. Single-tier locker or Z-style locker configuration as shown on Drawings.
- 1.8.6. Provide garment hooks inside.
- 1.8.7. Provide locking mechanism.

1.9. BODIES

- 1.9.1. All lockers to have phenolic cores with recessed and concealed fasteners.
- 1.9.2. All exposed surfaces to have high-pressure laminate surfaces with corresponding edge trim and edge guards.
- 1.9.3. All hardware to be recessed and/or concealed as per manufacturer.

1.10. DOOR HANDLE AND LATCHING

- 1.10.1. Multi-Point Wardrobe: Handles shall be 304 stainless steel recessed pocket of sufficient depth to prevent the lock from protruding beyond the face of the door and securely fastened with tamper resistant fasteners. Doors to latch to the door frame at three points on doors over 42" high and two points on all other wardrobe doors. Lock bar shall be hot dip galvanized and installed after door is painted to ensure proper paint coverage and lock bar operation. The latching mechanism shall be finger lift control type constructed of 14 gauge (minimum) steel with a nylon cover that has a generous finger pull. Spring activated nylon slide latches shall be completely enclosed in the lock channel allowing doors to close with the lock in the locked position. Locking device shall be designed for use with either built-in combination locks or padlocks with no exposed holes. Latch hooks shall be 11 gauge (minimum) with riveted bumpers and shall be MIG welded to vertical frame member.

- 1.10.2. Tamper Resistant Single-Point Wardrobe Latch: Handles shall be 304 stainless steel recessed pocket of sufficient depth to prevent the lock from protruding beyond the face of the door and securely fastened with tamper resistant fasteners. Doors shall be stiffened with a 3" wide, full-height panel welded to the inside of the door on four sides to allow the single latch securely lock the door closed in a rigid torque-free connection. Locking device shall be designed for use with either built-in combination locks or padlocks with no exposed holes. Latch hook shall be 11 gauge (minimum) with riveted bumpers and securely welded to the framed vertical divider.
- 1.10.3. Single-Point Box Locker: Doors shall be punched for use with padlocks or built-in locks. Doors for use with padlocks shall be equipped with an 18 gauge combination door pull, staple and lock hole cover plate with integral friction catch.
- 1.11. DOOR VENTILATION
Provide solid doors with concealed flange vents or louvers on all doors unless otherwise requested.
 - 1.11.1. Louvers for basic ventilation on all doors.
- 1.12. DOOR HINGES
Hinges: provide three (3) 3-1/2" high, 7-knuckle hinges for each door over 42" high and two (2) for each door under 42" high. A full height piano hinge preferred if standard with the manufacturer. Hinge to be double riveted to the door and the frame.
- 1.13. EQUIPMENT
All lockers shall have two single-prong wall hooks and one double-prong hook. Hooks shall be attached with two bolts per hook.
- 1.14. ACCESSORIES
 - 1.14.1. Built-In Locks
 - 1.14.1.1. Key Locks: Keyed alike, individually, or master keyed.
 - 1.14.2. Sloping Locker Tops:
Provide sloping locker tops in addition to the locker-section flat tops on lockers. Sloping tops must be continuous in length. Provide fillers or closures at the exposed end of sloping tops. Fabricate sloping tops from not less than 18 gauge steel sheet. Material finish color to match lockers.
 - 1.14.3. Base Panels: Provide closed metal bases unless otherwise shown on drawings.
 - 1.14.3.1. Provide 4"H, 14 gauge Zee formed bases on lockers without legs.
 - 1.14.4. Number Plates: Provide number plates on door in number sequence.

PART 3 - EXECUTION

1.15. EXAMINATION

- 1.15.1. Do not begin installation until substrates and bases have been properly prepared.
- 1.15.2. If substrate and bases are the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

1.16. INSTALLATION

- 1.16.1. Install metal lockers and accessories at locations shown in accordance with manufacturer's instructions.
- 1.16.2. Install lockers plumb, level, and square.
- 1.16.3. Anchor lockers to floor and wall at 48 inches (1.219 m) or less, as recommended by the manufacturer.
- 1.16.4. Bolt adjoining locker units together to provide rigid installation.
- 1.16.5. Install sloping tops and metal fillers using concealed fasteners. Provide flush hairline joints against adjacent surfaces.
- 1.16.6. Install front bases between legs without overlap or exposed fasteners. Provide end bases on exposed ends.
- 1.16.7. Install benches by fastening bench tops to pedestals and securely anchoring to the floor using appropriate anchors for the floor material.

1.17. ADJUSTING AND CLEANING

Adjust doors and latches to operate without binding. Verify that latches and locks are operating satisfactorily. Verify that ADA lockers operate according to code.

END OF SECTION