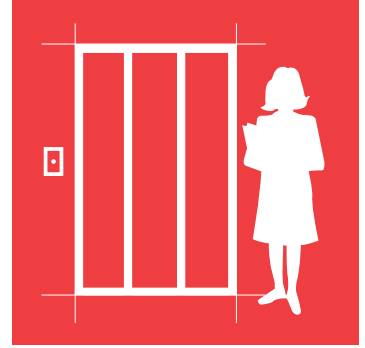


SmartLocker

Electronically Managed Locker System



SmartLocker Managed Systems

These are snapshot specifications for quick reference and product selection. Full 3-part specifications with expanded product information are available to download at www.pencoproducts.com and may include updates as a result of Penco's continuous product improvement initiatives.

At a Glance...

- Electronically operated lockers are opened with magnetic card or proximity credential
- Fully welded steel construction
- 14 ga. doors with continuous hinge
- 16 ga. sides, backs and shelves



SNAPSHOT SPECIFICATIONS

PART 1 – GENERAL

1.01 SECTION INCLUDES

Electronically Controlled Heavy Duty Welded Lockers

1.02 REFERENCES

ADAAG - Americans with Disabilities Act, Accessibility Guidelines.

1.03 SUBMITTALS

Submit under provisions of Section 01 33 00. Shop Drawings shall show dimensioned plans, elevations, and sections.

1.04 DELIVERY, STORAGE, AND HANDLING

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

PART 2 – PRODUCTS

2.01 MANUFACTURER

Penco Products, Inc. or approved equal based upon ability to provide product compliant with specifications of the product selected. Provide only metal lockers fabricated in the United States by a single domestic manufacturer.

2.02 MATERIALS

Steel: All Penco standard lockers are constructed using prime grade mild cold-rolled sheet steel free from surface

imperfection meeting ASTM A1008 and capable of taking a high-grade enamel powder coat finish. Alternate material: Sheet steel components shall be fabricated using zinc-coated steel meeting ASTM A879 and finished in the same manner. Forged steel coat hooks with balled ends and truss fin head bolts and hex nuts will be zinc coated and supplied for all lockers unless otherwise indicated.

2.03 ELECTRONICALLY CONTROLLED LOCKERS

Acceptable Product: Penco SmartLocker welded lockers. Tops, Bottoms, Sides, and Shelves shall be fabricated from 16 gauge and backs from 18 gauge sheet steel. Locker doors shall be 14 gauge.

Function: System shall use electromechanical locking mechanisms and administrative software to grant or limit access from a central control in one of the following modes of operation.

Personnel: Permanently assigned student, employee or similar use.

Personnel: Temporary or day use.

Equipment: Electronically controlled tool access.

Evidence: Electronically controlled chain of custody.

Enrolled User Access: Only authorized users shall have access. Standard access

shall be granted by use of a proximity card or key tag alone, or with a PIN in tool and evidence mode. System shall incorporate owner's existing access credentials.

Administrative Access: Only authorized administrative personnel shall have access to software providing an interface to all functions of the locker control system. It maintains a database of users, lockers, and other information related to operation of the system. It will control access to lockers and selectively open one or more lockers on command. It will record all transaction data and provides a variety of reports.

System Controls: System Control Unit (SCU) will manage all functions of the locker control system and will send data and command information to as many as 256 Locker Control Units (LCU), controlling up to 12,288 lockers per SCU, and retrieve transaction data from them via an RS485 interface. SCU will also provide hard contacts for interfacing to optional alarm devices. Both the SCU and standard battery back-up are contained in individual UL approved enclosures and placed within 50 linear feet of the administrative PC. System administrator will communicate with the SCU using a personal computer attached to the SCU via an RS-232 interface.

Door Frame: Channel shape, not less than 16 gauge steel. Provide vertical door frame members with additional 3/8 inch



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SNAPSHOT SPECIFICATIONS (continued)

(9.5 mm) flange as a continuous door strike. Intermediate cross frame members are standard on double and triple tier lockers.

Single-Point Latch Doors: One piece 14 gauge sheet steel with full channel formation on lock side and hinge side, right angle formations across top and bottom, with holes for attaching number plates. Reinforcement on doors 20 inches and taller: Full height 3-1/2 inch (89 mm) wide, 18 gauge vertical pan welded to the top, bottom and hinge side flanges and rear of door skin on 12 inch (305 mm), 15 inch (381 mm) and 18 inch (457 mm) wide doors. No handle or lock mechanism shall be visible in the closed position.

Ventilation: Flush Doors

Alternate Ventilation: Doors shall have standard louvers.

Alternate Ventilation: 3/4 inch (19 mm) wide by 1-1/2 inch (38 mm) high diamond-shaped perforations. Doors less than 20 inches tall have 7/16 inch (11 mm) wide by 15/16 inch (24 mm) high diamond-shaped perforations.

Hinges: Continuous type: 16 gauge piano hinge measuring full height of door. Welded to door and attached to locker frame using steel rivets.

2.04 DOOR HANDLES AND LATCHING

All Doors: Secured in the locked position by a high-strength locking gear and latch fully concealed within the lock case. Lock design shall resist prying by positively engaging the machined steel plunger attached to the door. Doors are released electronically into an open position eliminating the need for users to pull or grasp a door handle.

Locking Device: Positive, automatic type, whereby locker may be locked when open, then closed without unlocking. An unpowered mechanism shall default to the locked position. Firmly secure rubber silencers to frame.

2.05 INTERIOR EQUIPMENT

ADA-Compliant Lockers (Recessed Handles with Multi-Point Latch): Single lockers: Hat shelf 48 inches from locker bottom or lower as required by base condition. Locker Bottom: Minimum of 9 inches off the floor, or an extra shelf placed 9 inches off the floor for side access or minimum of 15 inches off the floor for front access.

2.06 FABRICATION

Pre-assemble lockers by welding into one piece structures in groupings most practical for job requirements, welds free of burrs; maximum width of group to be 54 inches (1.371 m); no bolts, nuts, or rivets allowed in

assembly of main locker groups.

Finish: High quality powder coat paint finish applied in strict adherence to paint manufacturer's specifications to provide optimum appearance and performance. Finishes releasing VOCs are not acceptable. Standard coating thickness is 1 mil dry film thickness minimum. Powder Coat Plus option increases thickness to 2 mil minimum. Colors as selected from manufacturer's standard colors. All locker body components shall match color of door and frame.

Alternative Finishes: Custom color match, Anti Graffiti, antimicrobial, TGIC and high performance finishes are available.

PART 3 – EXECUTION

3.01 EXAMINATION

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

3.02 INSTALLATION

Install metal lockers and accessories at locations shown in accordance with manufacturer's instructions. Install lockers plumb, level, and square. Anchor lockers to floor and wall at intervals recommended by the manufacturer. Bolt adjoining locker units together to provide rigid installation.

3.03 ADJUSTING

Adjust doors and latches to operate without binding. Verify that latches are operating satisfactorily. Adjust built-in locks to prevent binding of dial or key and ensure smooth operation prior to substantial completion.

Touch-up with factory-supplied paint and repair or replace damaged products before substantial completion.

3.04 PROTECTION

Protect installed products until completion of project.

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