

Accuride International Inc.  
12311 Shoemaker Avenue  
Santa Fe Springs, California 90670  
Phone 562-903-0200  
Fax 562-903-0208  
Website www accuride.com  
Email info@accuride.com

July 2016

## Guide Specification

Specifier Notes: This guide specification is written in Construction Specifications Institute (CSI) 3-Part Format in accordance with *The CSI Construction Specifications Practice Guide, MasterFormat, SectionFormat, and PageFormat.*

This Section must be carefully reviewed and edited by the Architect to meet the requirements of the Project and local building code. Coordinate this Section with Division 01, other specification sections, and the Drawings. Delete all Specifier Notes after editing this Section.

Section numbers and titles are based on *MasterFormat 2016 Edition.*

Use section number 06 41 93 when "Senseon Secure Access" is installed in Architectural Wood Casework. Use section number 12 35 93 when "Senseon Secure Access" is installed in Specialty Casework.

## SECTION 06 41 93

### ELECTRONIC CABINET ACCESS CONTROL SYSTEM

Specifier Notes: This Section covers Accuride International Inc. "Senseon Secure Access" electronic cabinet access control system. Consult Accuride International Inc. for assistance in editing this Section as required for the Project.

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Electronic cabinet access control system.

## 1.2 RELATED REQUIREMENTS

Specifier Notes: Edit the following list of related sections as required for the Project. Limit the list to sections with specific information that the reader might expect to find in this Section, but is specified elsewhere.

- A. Section 06 41 00 – Architectural Wood Casework.
- B. Section 12 35 00 – Specialty Casework.

## 1.3 PREINSTALLATION MEETINGS

Specifier Notes: Edit the Preinstallation Meetings article as required for the Project. Delete article if not required.

- A. Convene preinstallation meeting [1 week] [2 weeks] before start of installation of electronic cabinet access control system.
- B. Require attendance of parties directly affecting Work of this Section, including Contractor, Architect, installer, and manufacturer's representative.
- C. Review the Following:
  - 1. Materials.
  - 2. Installation.
  - 3. Adjusting.
  - 4. Demonstration.
  - 5. Instruction and training.
  - 6. Protection.
  - 7. Coordination with other Work.

## 1.4 SUBMITTALS

Specifier Notes: Edit the Submittals article as required for the Project. Delete submittals not required.

- A. Comply with Division 01.
- B. Product Data: Submit manufacturer's product data, including installation instructions.
- C. Shop Drawings:
  - 1. Submit manufacturer's shop drawings, including plans, elevations, sections, and details.
  - 2. Indicate dimensions, tolerances, materials, components, fabrication, fasteners, hardware, finish, electrical wiring diagrams, options, and accessories.
- D. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.

- E. Manufacturer's Project References: Submit manufacturer's list of 3 successfully completed electronic cabinet access control system projects of similar size and scope to this Project, including project name and location, name of architect, and type of systems furnished.
- F. Operation and Maintenance Data:
  - 1. Submit manufacturer's operation and maintenance manual, including the following:
    - a. Operation, maintenance, and adjustment.
    - b. Proximity reader programming instructions.
    - c. Troubleshooting guide.
    - d. Parts list.
  - 2. Provide detailed information required for Owner to properly operate and maintain electronic cabinet access control system.
- G. Warranty Documentation: Submit manufacturer's standard warranty.

## **1.5 QUALITY ASSURANCE**

- A. Manufacturer's Qualifications: Manufacturer regularly engaged in the manufacturing of electronic cabinet access control systems of similar type to that specified for a minimum of 3 years.
- B. Installer's Qualifications: Regularly engaged in cabinet construction.

## **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Delivery Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage and Handling Requirements:
  - 1. Store and handle materials in accordance with manufacturer's instructions.
  - 2. Keep materials in manufacturer's original, unopened containers and packaging until installation.
  - 3. Store materials in clean, dry area indoors.
  - 4. Do not store materials directly on floor.
  - 5. Keep materials from freezing.
  - 6. Protect materials and finish during storage, handling, and installation to prevent damage.

## **1.7 WARRANTY**

- A. Warranty Period: 1 year.

## **PART 2 PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Manufacturer: Accuride International Inc., 12311 Shoemaker Avenue, Santa Fe Springs, California 90670. Phone 562-903-0200. Fax 562-903-0208. [www accuride.com](http://www accuride.com). [info@accuride.com](mailto:info@accuride.com).

Specifier Notes: Specify if substitutions will be permitted.

- B. Substitutions: [Not permitted] [Comply with Division 01].
- C. Single Source: Provide components for electronic cabinet access control system from single manufacturer.

## 2.2 ELECTRONIC CABINET ACCESS CONTROL SYSTEM

- A. Electronic Cabinet Access Control System: "Senseon Secure Access".
  - 1. Incorporates electronically controlled locking mechanism into commercial-grade drawer slides and door locks.
  - 2. Locks are controlled by proximity reader concealed or flush mounted on cabinet surface.
  - 3. Each proximity reader can control a maximum of 15 drawers or door openings arranged in any configuration.
  - 4. Each user is assigned a user card containing a unique RFID chip.
  - 5. Tap card to proximity reader to open cabinet locks.
  - 6. Cabinet can be opened manually using hardware or finger pulls or by touching desired opening.
  - 7. Cabinets automatically lock within preset period or manual lock mode.
- B. Proximity Kit:
  - 1. One proximity kit per system includes:
    - a. RFID Proximity Reader: 1.
    - b. Power Supply: 1.
    - c. Top Link Cable: 1.
    - d. DC Power Cable: 1.
    - e. Cable clips.
    - f. Holders.
    - g. AC power cord.
  - 2. RFID Proximity Reader:
    - a. Model: "SEPR-1".
    - b. Operation: Operates using radio frequency identification communication (RFID) between proximity reader and RFID cards.
    - c. Reads Signal: Maximum of 6 inches (150 mm) unobstructed.
    - d. Includes:
      - 1) RFID User Cards: 9.
      - 2) Administrator Card: 1.
    - e. User Cards:
      - 1) Can be programmed to unlimited number of proximity readers.
      - 2) User Card Limit: Maximum of 100 user cards can be programmed to each proximity reader.
    - f. Administrator Card:
      - 1) Program proximity reader with administrator card, which is used to add or delete user cards and complete other programming actions.
      - 2) Administrator Card Limit: Maximum of 5 administrator cards can be programmed to each proximity reader.
    - g. Normal System Operation: Tap user card over front of proximity reader to unlock drawers or doors connected to electronic lock.

- h. Auto-Relock Time Delay:
  - 1) Adjustable between 1 and 180 seconds.
  - 2) Factory Default: 5 seconds.

Specifier Notes: Specify surface or subsurface mounting of proximity reader.

- i. Mounting: [Surface] [Subsurface].
  - j. LED Light: Indicates operation mode.
    - 1) Blue: Standby mode.
    - 2) Green: Programming mode.
    - 3) Red: Error or invalid card.
  - k. Programmable Lock Operation: Auto-relock or manual lock mode.
  - l. Power Input: 12 V DC.
  - m. Current:
    - 1) Standby: 80 mA at 12 V DC.
    - 2) Active: 200 mA at 12 V DC.
  - n. Transmit Frequency: 125 kHz.
  - o. Outputs: 1 relay (NO/NC/COM).
  - p. Contact Rating: 1 A at 30 V.
  - q. Operating Temperature Range: 4 to 158 degrees F (minus 20 to 70 degrees C).
  - r. Enclosure Rating: IP67.
  - s. Dimensions:
    - 1) Height: 3.8 inches (96.0 mm).
    - 2) Length: 1.8 inches (45.0 mm).
    - 3) Width: 0.77 inches (20.0 mm).
  - t. Certifications:
    - 1) CE.
    - 2) RoHS.
    - 3) FCC.
3. Power Supply:
- a. 12 V DC, 5 A.
  - b. 100 to 240 V AC.
  - c. International Efficiency Marking: VI minimum.
  - d. Compliance:
    - 1) CE.
    - 2) FCC.
    - 3) UL US and C.
    - 4) RoHS.
    - 5) MM.
    - 6) TUV.

C. Hub Kit:

- 1. Modular wiring hub.
- 2. Enables proximity reader to unlock every drawer or door connected to it.
- 3. Each Hub Kit: Controls 1 drawer or door.
- 4. Hub Kit Contains:
  - a. Hub: 1.
  - b. Lock Cables: 2.
  - c. Cable Clips: 4.

5. Hub Dimensions:
  - a. Length: 6.0 inches (152.4 mm).
  - b. Height: 1.5 inches (38.1 mm).
  - c. Width: 0.5 inch (12.7 mm).
6. Compliance:
  - a. CE.
  - b. RoHS.

Specifier Notes: Specify integrated electronic locking slides required for the "Senseon Secure Access" system. Delete integrated electronic locking slides not required.

D. Integrated Electronic Locking Slides: Model "38EL".

1. Side-mount slide and electronic lock.
2. Lock/unlock, opened manually with detent in closed position.
3. Compliance:
  - a. CE.
  - b. RoHS.
4. Finish: Clear electroplate.
5. Lengths: 12 to 28 inches (300 to 700 mm).
6. Load Rating: Maximum 100 lbs (45.5 kg) per pair.
7. Travel: Full extension.
8. Disconnect: Handed lever.
9. Height: 1.80 inches (45.7 mm).
10. Height with Lock: 2.50 inches (63.5 mm).
11. Side Space per Slide: 0.50 inch, plus 0.031/minus 0.0 inch (12.7 mm, plus 0.8/minus 0.0 mm).
12. Lock: Electronic locking mechanism with manual override.
13. Lock Withstands: Maximum 250 lbs of force.
14. Material:
  - a. Slide Members and Ball Retainers: Cold-rolled steel.
  - b. Ball Bearings: Carburized steel.
  - c. Lock: Zinc and black polymer.
15. Mounting Hardware: #8 pan-head screws.

E. Integrated Electronic Locking Slides: Model "38ELAO".

1. Side-mount slide and electronic lock.
2. Auto-Open: Propelled open about 2 inches (51 mm) when unlocked.
3. Compliance:
  - a. CE.
  - b. RoHS.
4. Finish: Clear electroplate.
5. Lengths: 12 to 28 inches (300 to 700 mm).
6. Load Rating: Maximum 100 lbs (45.5 kg) per pair.
7. Travel: Full extension.
8. Disconnect: Handed lever.
9. Height: 1.80 inches (45.7 mm).
10. Height with Lock: 2.50 inches (63.5 mm).
11. Side Space per Slide: 0.50 inch, plus 0.031/minus 0.0 inch (12.7 mm, plus 0.8/minus 0.0 mm).

12. Lock: Electronic locking mechanism with manual override.
13. Lock Withstands: Maximum 250 lbs of force.
14. Material:
  - a. Slide Members and Ball Retainers: Cold-rolled steel.
  - b. Ball Bearings: Carburized steel/acetal polymer.
  - c. Lock: Zinc and black polymer.
15. Mounting Hardware: #8 pan-head screws.

F. Integrated Electronic Locking Slides: Model "3135TREL".

1. Concealed undermount slide and electronic lock.
2. Electronic Touch Release: Propels doors or drawers open 2 inches (51 mm) minimum when activated by touch.
3. Compliance:
  - a. CE.
  - b. RoHS.
4. Finish: Bright electro-zinc.
5. Lengths: 12 to 28 inches (305 to 711 mm).
6. Load Rating: Maximum 100 lbs (45.5 kg) per pair.
7. Travel: Full extension.
8. Disconnect: Handed lever.
9. Height:
  - a. Under Drawer: 1.12 inches (28.5 mm).
  - b. Overall: 1.95 inches (49.6 mm).
10. Lock: Electronic locking mechanism with manual override.
11. Lock Withstands: Maximum 250 lbs of force.
12. Material:
  - a. Slide Members: Cold-rolled steel.
  - b. Ball Retainers: Polymer.
  - c. Ball Bearings: Carburized steel and polymer.
  - d. Rollers: Polymer.
  - e. Lock: Zinc and black polymer.
13. Mounting Hardware: #8 x 5/8-inch Phillips flat-head screws.

Specifier Notes: Specify standalone electronic locks required for the "Senseon Secure Access" system. Delete standalone electronic locks not required.

G. Standalone Electronic Locks: Model "10EL".

1. Electronic lock with manual override.
2. Lock/unlock, with detent, open manually.
3. Compliance:
  - a. CE.
  - b. RoHS.
4. Material: Zinc and black polymer.
5. Height: 2.18 inches (55.4 mm).
6. Length: 2.79 inches (70.9 mm).
7. Thickness: 0.50 inches (12.7 mm).
8. Lock Withstands: Maximum 250 lbs of force.
9. Mounting Hardware: #8 pan-head screws.

- H. Standalone Electronic Locks: Model "10ELAO".
  - 1. Electronic lock with manual override.
  - 2. Auto-Open: Automatically opens and propels doors open about 2 inches (51 mm) when unlocked. Use free-swing hinges.
  - 3. Compliance:
    - a. CE.
    - b. RoHS.
  - 4. Material: Zinc and black polymer.
  - 5. Height: 2.18 inches (55.4 mm).
  - 6. Length: 2.79 inches (70.9 mm).
  - 7. Thickness: 0.50 inches (12.7 mm).
  - 8. Lock Withstands: Maximum 250 lbs of force.
  - 9. Mounting Hardware: #8 pan-head screws.
  
- I. Standalone Electronic Locks: Model "10TREL".
  - 1. Electronic lock with manual override.
  - 2. Electronic Touch Release: Propels doors or drawers open when activated by touch. Use free-swing hinges.
  - 3. Compliance:
    - a. CE.
    - b. RoHS.
  - 4. Material: Zinc and black polymer.
  - 5. Height: 2.18 inches (55.4 mm).
  - 6. Length: 2.79 inches (70.9 mm).
  - 7. Thickness: 0.50 inches (12.7 mm).
  - 8. Lock Withstands: Maximum 250 lbs of force.
  - 9. Mounting Hardware: #8 pan-head screws.
  
- J. Standalone Electronic Locks: Model "10EL-2".
  - 1. Electronic lock with manual override.
  - 2. Lock/unlock, for doors with soft-close hinges or drawers with soft-close slides.
  - 3. Compliance:
    - a. CE.
    - b. RoHS.
  - 4. Material: Zinc and black polymer.
  - 5. Height: 2.18 inches (55.4 mm).
  - 6. Length: 2.79 inches (70.9 mm).
  - 7. Thickness: 0.50 inches (12.7 mm).
  - 8. Lock Withstands: Maximum 250 lbs of force.
  - 9. Mounting Hardware: #8 pan-head screws.
  
- K. Extension Cables:
  - 1. Increases possible distances between proximity kit, hub kit, and electronic locks.
  - 2. Lengths: 6 inches (152 mm), 12 inches (305 mm), and 24 inches (610 mm).
  
- L. Linking Cables:
  - 1. Top or Bottom Linking Cables: Connects multiple groups of hubs to 1 proximity reader.
  - 2. Top Link: 1 pronged side to connect 2 sets of hub sets together into 1 proximity reader.
  - 3. Bottom Link: Connects bottom of 2 hub sets together.



## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Examine areas to receive electronic cabinet access control system.
- B. Verify surfaces to support electronic cabinet access control system are clean, dry, flat, plumb, level, square, and stable.
- C. Notify Architect of conditions that would adversely affect installation or subsequent use.
- D. Do not begin installation until unacceptable conditions are corrected.

### **3.2 INSTALLATION**

- A. Install electronic cabinet access control system in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install electronic cabinet access control system components plumb, level, and square.
- C. Anchor electronic cabinet access control system components securely in place to supports.

### **3.3 ADJUSTING**

- A. Adjust electronic cabinet access control system for proper operation in accordance with manufacturer's instructions.
- B. Adjust operating hardware to operate smoothly without binding.
- C. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- D. Remove and replace with new material, damaged components that cannot be successfully repaired, as determined by Architect.

### **3.4 CLOSEOUT ACTIVITIES**

Specifier Notes: Edit the Closeout Activities article as required for the Project.
--

- A. Demonstration:
  - 1. Demonstrate to [Architect] [and] [Owner] that electronic cabinet access control system functions properly.
  - 2. Perform demonstration at final system inspection by factory-trained and certified representative of manufacturer.
- B. Instruction and Training:
  - 1. Provide instruction and training of Owner's personnel in operation and maintenance of electronic cabinet access control system.

2. Provide instruction and training by factory-trained and certified representative of manufacturer.

### **3.5 PROTECTION**

- A. Protect installed electronic cabinet access control system from damage during construction.

**END OF SECTION**