

SECTION 08710 - DOOR HARDWARE**PART 1 GENERAL****A. RELATED DOCUMENTS**

1. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
2. Section 06200, Finish Carpentry
3. Section 08112, Metal Doors and Frames
4. Section 08211, Interior Molded Doors and Frames

B. SUMMARY

1. This Section defines installation and Hardware Schedule as well as specialty items not available on set-up units.

PART 2 PRODUCTS**A. MANUFACTURERS**

1. Manufacturer: Obtain each type of hardware from a single manufacturer. Manufacturer and hardware listed below are basis of design only; approved equals will be acceptable.
2. Locksets: Schlage, D Series: Sparta, brass (US 3); lever handles.
3. Closers: Sargent:
 - a. Exterior doors: 281 Series, top jamb application, 25-H arm.
 - b. Interior doors: 281 Series, standard application, 25-H arm.
4. Door Trim:
 - a. Push Plates: Rockwood: Model 70, US 3.
 - b. Pulls: Rockwood: Model BF111, US 3.
 - c. Kickplates: Rockwood: 8" high x width of door, US 3.
 - d. Peepholes: Ives, Model U698.
5. Door Stops: Wall mounted, Ives No. 407 or equal, brass finish (US 3).
6. Electromagnetic Door Strike:
 - a. Rixson/Yale Security Inc.
 - b. Von Duprin
 - (1) Provide at main entrance, interior door strike that is compatible with lockset being supplied and with the intercom and door release system specified in Division 16.
 - (a) Strike shall be 12 or 24 volt as required, all stainless steel construction, equal to "StrikeForce" 6000 Series by Von Duprin. Provide fail secure model with horizontal adjustability.

PART 3 EXECUTION**A. INTENT**

1. It is the intent of this specification that all doors are delivered on site as "set up" units and come with as much hardware pre-installed as possible.
2. Lockset functions identified in the Schedule below are to be as follows:
 - a. Passage Function (15): Either lever operates latchbolt at all times.
 - b. Privacy Function (65): Either lever operates latchbolt unless outside lever is locked by pushbutton inside. Turning inside lever or closing door releases button. Emergency button in outside lever unlocks with use of slotted screwdriver in outside lever.

- c. Storeroom Function (04): Deadlocking latchbolt. Latchbolt operated by lever inside or key outside. Outside lever is rigid at all times, inside lever is always active.
- d. Office Function (05): Deadlocking latchbolt. Latchbolt by either lever unless outside lever is locked by push/turn button in inside lever. Push button released by key outside or lever inside. Turn button must be released manually. Key retracts latchbolt when outside lever is locked. Inside lever is always operative.
- e. Apartment Function (16): Deadlocking latchbolt. Latchbolt by either lever unless outside lever is locked by key in inside lever. Key in outside lever momentarily retracts latchbolt when outside lever is locked. Inside lever is always operative.
- f. Single Lever Pull Function (93): Fixed lever on active side.
- g. Double Lever Pull Function (94): Fixed lever on active side.

B. INSTALLATION

1. Mount hardware units at heights indicated in following applicable publications, except as specifically indicated or required complying with governing regulations and excepting as otherwise directed by Engineer.
 - a. "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.
 - b. "Recommended Locations for Builders Hardware for Custom Steel Doors and Frames" by the Door and Hardware Institute.
 - c. NWWDA Industry Standard I.S.1.7, "Hardware Locations for Wood Flush Doors."
2. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in the Division 9 Sections. Do not install surface-mounted items until finishes have been completed on the substrates involved.
3. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
4. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
5. Weather-stripping and Seals: Comply with manufacturer's instructions and recommendations to the extent installation requirements are not otherwise indicated.

C. ADJUSTING, CLEANING, AND DEMONSTRATING

1. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.
2. Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment, and to assure meeting ADA requirements at all doors.
 - a. Clean adjacent surfaces soiled by hardware installation.
3. Instruct Owner's personnel in the proper adjustment and maintenance of door hardware and hardware finishes.

PART 4 HARDWARE SCHEDULE

A. GENERAL

1. Refer to Drawings for Door Schedule and numbered door locations.
2. Refer to the Drawings for indication of required ratings for doors and frames.

B. SCHEDULE:

SET HARDWARE

- 1 Passage latchset, 1 1/2 pair hinges, closer, weather-stripping, sweep, kickplate, threshold.
- 2 Apartment lockset, 1 1/2 pair hinges, weather-stripping, stop, closer, kick plate, electromagnetic strike, threshold.
- 3 Office lockset, 1 1/2 pair hinges, stop.
- 4 Storeroom lockset, 1 1/2 pair hinges, silencers, stop, closer, kick plate.
- 5 Privacy lockset, 1 1/2 pair hinges, closer, kickplate.
- 6 Passage latchset, 1 1/2 pair hinges, stop.
- 7 Double Lever Pulls (pair), 3 pair hinges, stop, magnetic catches at heads.
- 8 Storeroom lockset, 1 1/2 pair hinges, weather-stripping, sweep, threshold, closer, kickplate.
- 9 Passage latchset, 1 1/2 pair hinges, closer, silencers, kickplate.
- 10 Office lockset, 1 1/2 pair hinges, stop, closer, peephole, kickplate.
- 11 Privacy lockset, 1 1/2 pair hinges, stop, robe hook.
- 12 Single Lever Pulls (pair), 3 pair hinges, magnetic catches at heads.
- 13 Storeroom lockset, 1 1/2 pair hinges, weather-stripping, sweep, threshold, closer.

END OF SECTION 08710