

**SECTION 08710
FINISH HARDWARE**

PART 1 - GENERAL

1.1 SUMMARY

- .1 Provide finish hardware, fasteners, and accessories for a complete and secure system as indicated and specified.
- .2 Installation of Finish Hardware: Refer to Section 06200 Finish Carpentry.
- .3 Refer to Door Schedule for hardware requirements for each door.

1.2 REFERENCES

- .1 ANSI/BHMA A156.2-1996, Bored and Preassembled Lock and Latches.
- .2 ANSI/BHMA A 156.3-2001, Exit Devices.
- .3 ANSI/BHMA A156.4-2000, Door Controls – Closers.
- .4 ANSI/BHMA 156.19-2002, Power Assist and Low-Energy Power-Operated Doors.

1.3 SUBMITTALS

- .1 Submit in accordance with Division 1 Submittal Procedures.
- .2 Submit a detailed finish hardware schedule prepared by an Architectural Hardware Consultant (AHC) showing each separate type of item including make, model, material, function, size, finish, and other pertinent information.
- .3 Provide two (2) copies of maintenance data, manufacturer's parts list, manufacturer's instructions for door closers, lock and latch sets, door holders, panic hardware, and three (3) sets of wrenches for door closers, lock and latch sets.
- .4 Deliver tagged and indexed keys and key cylinders directly to Owner and obtain a signed receipt from Owner's authorized receiver.

1.4 GUARANTEE

- .1 Provide a one (1) year guarantee for all finish hardware except for exit devices which must have a three (3) year guarantee, and closers which must have a five (5) year guarantee.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Deadbolts: Minimum requirements - ANSI/BHMA A156.2-1996 Series 4000 Grade 1 c/w mortised faceplate bolt and 6 pin cylinders.
- .2 Locks: Minimum requirements - ANSI/BHMA A156.2-1996 Series 4000 Grade 2 c/w mortised faceplate latch and 6 pin cylinders.
- .3 Latchsets: Minimum requirements - ANSI/BHMA A156.2-1996 Series 4000 Grade 2 c/w mortised faceplate latch and 6 pin cylinders.
- .4 Approved deadbolts, locks, latch set series, and designs are as follows:
 - .1 Exterior Doors.
 - .1 Schlage AL Series Saturn levers.
 - .2 Weiser SPS Series DG levers.
 - .3 Sargent 7 Line LL levers.
 - .4 Corbin CL 3900 NZD levers.
 - .2 Interior Doors.
 - .1 Schlage AL Series Saturn levers.

- .2 Weiser SPS-Series DG levers.
- .3 Sargent 7 Series LL lever.
- .4 Corbin CL 3900 NZD levers.
- .3 Exterior Doors or Gate Hardware: Hardware for exterior doors or gates shall have stainless steel finish and corrosion resistant parts when exposed to weather. Gate padlocks: Schlage #45-121 complete with cylinder.

2.2 EXIT DEVICES (PANIC)

- .1 Exit Devices: ULC listed for Accident Hazard and Fire Exit (as required by the door), and tested in accordance to ANSI/BHMA A 156.3, Grade 1.
 - .1 Von Duprin 99 Series x 992L-06 trim (where required).
 - .2 Dorma 6000 Series x lever trim.
 - .3 Sargent 8000 Series x ETL trim.
 - .4 All double door locations provide vertical rods for latching.

2.3 CLOSERS

- .1 Closers: ULC listed and certified under ANSI Standards A156.4-2000, Grade 1. Closers to meet barrier free requirements.
 - .1 Fire Door Closers.
 - .1 LCN 1461 c/w Slimline cover.
 - .2 Dorma 7601 Series x cover.
 - .3 Sargent 1431 Series.
 - .4 Norton 8501 Series.
 - .2 Exterior Door Closer: LCN 4040 or equivalent Dorma, Sargent or Norton model.

2.4 HINGES

- .1 For fire protection rated doors, provide ball bearing hinges with five knuckles and two sets of bearings. Approved manufacturers and part numbers include:
 - .1 Hager BB1279 (Ferrous Steel); Hager BB 1191 (Non-Ferrous).
 - .2 Stanley BB179 (Ferrous Steel); Stanley BB 191 (Non-Ferrous).
 - .3 McKinney #TA 2714 (Ferrous Steel); McKinney #TA 2314 (Non-Ferrous).
 - .4 Or approved alternate.
 - .5 Hinges - Exterior Doors: Non-ferrous hinges.
 - .6 Hinges - Suite Interior Doors
 - .1 89 x 89 mm (3 1/2" x 3 1/2"), 2 GD finish, 3 pair.
 - .2 Acceptable manufacturers: Stanley 821, or approved alternate.

2.5 ACCESSORIES

- .1 Door Stops:
 - .1 All doors to receive a door stop. Coordinate location with Consultant prior to ordering and installation.
 - .2 Floor #200 Lo Rise; Floor #218 High Rise.
 - .3 Wall #231 Convex; Wall #233 Concave.
- .2 Kick Plates: Minimum 254 mm (10") high, full width of door, 1.6 mm (1/16") thick, aluminum, C-28 finish, secured with corrosion resistant screws.
- .3 Push Plates: 102 mm x 580 mm, 1.6 mm thick (4" x 20" x 1/16"), aluminum, C-25 finish.

- .4 Pull Plates: Same as push plates, with 305 mm (12") D handles.
 - .5 Door Pulls for Cabinets, and Closets: Easily graspable by people with limited dexterity; minimum 102 mm (4") D pulls.
 - .6 Thresholds: Extruded aluminum, mill finish, beveled, with no more than 13 mm (1/2") floor offset; Pemko Barrier Free systems or equivalent. Set on two continuous beads of sealant and secure with at least three corrosion resistant fasteners. Thermally broken threshold at all exterior door locations. Size to wall condition, as confirmed by Consultant.
 - .7 Weatherstripping: Fully weatherstrip doors using heavy-duty bulb type weatherstrips (not foam type). Weatherstripping must restrict air infiltration to not more than 0.05 m³ (1.76 ft³) per minute per 1.0 m (3'-4") of joint. Hollow steel and wood doors must have heavy duty weatherstripping as manufactured by AK Drafseal #DS130C or equal. For smoke seal use DSS66.
 - .8 Door Sweep: Draftseal DS138C or equal.
 - .9 Labeled Doors: Hardware used in fire rated openings must bear Underwriters Laboratory of Canada (ULC) label.
 - .10 Latch Protector: At all exterior doors on ground floor install latch protectors. Lock guards to be stainless steel, 8" to 10" long.
 - .11 Meeting Style at double doors: Draftseal DS113CP
 - .12 Flush Bolts; as required for double doors, Hager or equal.
 - .13 Magnetic Hold Opens, see Electrical.
- 2.6 KEYING**
- .1 Supply locks with a 6 pin factory generated masterkey system. Keying to be determined in consultation with Consultant and Owner. Minimum: Master and 3 sub Masters.
 - .2 Locks to operate on one common masterkey.
 - .3 Allow for factory construction keying of locks.
 - .4 Allow for two keys per lock unless specified otherwise.
 - .5 Stamp keys "Do Not Duplicate".
- 2.7 FINISHES**
- .1 Generally BHMA 626 Satin Chromium, unless otherwise noted.
 - .2 Door Closers: factory powder coated to match other hardware, unless otherwise noted.
 - .3 Finishes, on hardware of like kind, shall match throughout the project. Finishes shall be #626 Satin Chromium, #630 Satin Stainless Steel, #628 Anodized Satin Aluminum, or powder coated #689 Aluminum.
- 2.8 SCHEDULE**
- .1 Refer to Door Schedule for specific hardware requirements.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Install hardware to standard hardware location dimensions in accordance with the Door & Hardware Institute Guide.
- .2 Refer to Section 06200 Finish Carpentry.

END OF SECTION