

**SECTION 08 71 00**  
**DOOR HARDWARE****PART 1 GENERAL****1.1 SECTION INCLUDES**

- A. Basis of Design Door Hardware Sets.

**1.2 RELATED REQUIREMENTS**

- A. Section 08 11 13 - Hollow Metal Doors and Frames.

**1.3 REFERENCE STANDARDS**

- A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.
- B. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.
- C. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2014.
- D. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2009.
- E. NFPA 101 - Life Safety Code; 2015.

**1.4 ADMINISTRATIVE REQUIREMENTS**

- A. Coordinate the manufacture, fabrication, and installation of products that door hardware will be installed upon.
- B. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.
- C. Convey Owner's keying requirements to manufacturers.
- D. Preinstallation Meeting: Convene a preinstallation meeting one week prior to commencing work of this section; require attendance by all affected installers.

**1.5 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project.
- C. Hardware Schedule: Detailed listing of each item of hardware to be installed on each door. Use door numbering scheme as included in the Contract Documents. Identify electrically operated items and include power requirements.

- D. Keying Schedule: Submit for approval of Owner.
- E. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention.
- F. Maintenance Data: Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.
  - 1. Submit manufacturer's parts lists and templates.
- G. Keys: Deliver with identifying tags to Owner by security shipment direct from hardware supplier.
- H. Warranty: Submit manufacturer's warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
- I. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 01 60 00 - Product Requirements, for additional provisions.
  - 2. Tools: One set of all special wrenches or tools applicable to each different or special hardware component, whether supplied by the hardware component manufacturer or not.

**1.6 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.
- B. Hardware Supplier Qualifications: Company specializing in supplying the type of products specified in this section with at least three years documented experience.
- C. Hardware Supplier Personnel: Employ an Architectural Hardware Consultant (AHC) to assist in the work of this section.

**1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Package hardware items individually; label and identify each package with door opening code to match hardware schedule.

**1.8 WARRANTY**

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Provide five year warranty for door closers.

**PART 2 PRODUCTS**

**2.1 MANUFACTURERS LIST - BASIS OF DESIGN**

<u>PRODUCT</u>	<u>SPECIFIED MFG</u>	<u>APPROVED EQUAL</u>
HINGES	MCKINNEY	STANLEY, HAGER
LOCKSETS	CORBIN RUSSWIN	NONE—MATCH EXISTING
CLOSERS	CORBIN RUSSWIN	NONE—MATCH EXISTING
EXIT DEVICE	CORBIN RUSSWIN	NONE—MATCH EXISTING
OH STOPS	RIXSON	ABH, GLYNN JOHNSON

ELEC STRIKES	HES	NONE—MATCH EXISTING
POWER SUPPLY	SECURITRON	NONE—MATCH EXISTING
THRESHOLD/SEALS	NATIONAL GUARD	PEMKO, REESE
FLUSHBOLTS	ROCKWOOD MFG	TRIMCO, BURNS
KICKPLATES	ROCKWOOD MFG	TRIMCO, BURNS
WALL STOPS	ROCKWOOD MFG	TRIMCO, BURNS
DOOR OPENER	STANLEY	HORTON

## **2.2 GENERAL REQUIREMENTS**

- A. Provide door hardware specified, or as required to make doors fully functional, compliant with applicable codes, and secure to the extent indicated.
- B. Provide items of a single type of the same model by the same manufacturer.
- C. Provide products that comply with the following:
  - 1. Applicable provisions of federal, state, and local codes.
  - 2. Accessibility: ADA Standards and ICC A117.1.
  - 3. Applicable provisions of NFPA 101, Life Safety Code.
  - 4. Auxiliary Hardware: BHMA A156.16.
  - 5. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
  - 6. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
  - 7. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified and indicated.
- D. Function: Lock and latch function numbers and descriptions of manufactures series as listed in hardware schedule.
- E. Electrically Operated and/or Controlled Hardware: Provide all power supplies, power transfer hinges, relays, and interfaces required for proper operation; provide wiring between hardware and control components and to building power connection.
- F. Finishes: Identified in schedule.
- G. Fasteners:
  - 1. Mineral Core Wood Doors: Sex bolts.
  - 2. Concrete and Masonry Substrates: Stainless steel machine screws and lead expansion shields.

## **2.3 KEY CONTROLS**

- A. Key Management System: For each keyed lock on project, provide one set of un-numbered, write-on duplicate key tags with hanging hole and snap catch.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Verify that doors and frames are ready to receive work; labeled, fire-rated doors and frames are present and properly installed, and dimensions are as indicated on shop drawings.

- B. Verify that electric power is available to power operated devices and of the correct characteristics.

### **3.2 INSTALLATION**

- A. Install hardware in accordance with manufacturer's instructions and applicable codes.
- B. Use templates provided by hardware item manufacturer.
- C. Do not install surface mounted items until finishes applied to substrate are complete.
- D. Set exterior door thresholds with full-width bead of elastomeric sealant on each point of contact with floor providing a continuous weather seal; anchor thresholds with stainless steel countersunk screws.

### **3.3 FIELD QUALITY CONTROL**

- A. Provide an Architectural Hardware Consultant to inspect installation and certify that hardware and installation has been furnished and installed in accordance with manufacturer's instructions and as specified.

### **3.4 ADJUSTING**

- A. Adjust work under provisions of Section 01 70 00 - Execution and Closeout Requirements.
- B. Adjust hardware for smooth operation.
- C. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

### **3.5 CLEANING**

- A. Clean adjacent surfaces soiled by hardware installation. Clean finished hardware per manufacturer's instructions after final adjustments has been made. Replace items that cannot be cleaned to manufacturer's level of finish quality at no additional cost.

### **3.6 PROTECTION**

- A. Protect finished Work under provisions of Section 01 70 00 - Execution and Closeout Requirements.
- B. Do not permit adjacent work to damage hardware or finish.

### **3.7 HARDWARE SET**

**HARDWARE SET # 1 – NOT USED****HARDWARE SET # 2**

DOORS: A106A

1	CONTINUOUS HINGE	CFMHD1 PT PREP
1	ELECTRIC LOCKSET	ML20932-NSA-US26D
1	POWER TRANSFER	EL-CEPT-US32D
1	FRAME CABLE	QC-C1500P
1	DOOR CABLE	QC-CXXX (LENGTH AS REQUIRED)
1	DOOR CLOSER	DC6210-A3-689
1	KICKPLATE	10" X 2" LDW.050-US32D
1	WALL STOP	400-US26D
1	THRESHOLD	271A-SSWS-PA
1	DOOR SWEEP	315CN
1	GASKET	S88D (HEAD AND JAMBS)
1	POWER SUPPLY	BPS24-1

ELECTRONIC ACCESS CONTROLS BOTH SIDES OF DOOR

**HARDWARE SET # 3**

DOORS: A106C, A101

1	CONTINUOUS HINGE	CFMHD1 PT PREP
1	ELECTRIC LOCKSET	ML20932-NSA-US26D
1	POWER TRANSFER	EL-CEPT-US32D
1	FRAME CABLE	QC-C1500P
1	DOOR CABLE	QC-CXXX (LENGTH AS REQUIRED)
1	DOOR CLOSER	DC6210-A4-689
1	KICKPLATE	10" X 2" LDW.050-US32D
1	THRESHOLD	271A-SSWS-PA
1	DOOR SWEEP	315CN
1	GASKET	S88D (HEAD AND JAMBS)
1	POWER SUPPLY	BPS24-1

ELECTRONIC ACCESS CONTROLS BOTH SIDES OF DOOR

**HARDWARE SET # 4**

DOORS: A108, A131A

1	CONTINUOUS HINGE	CFMHD1 X PT PREP
1	ELECTRONIC LOCKSET	ML20606-NAC-SEC-NSA-US26D
1	POWER TRANSFER	EL-CEPT-US32D
1	FRAME CABLE	QC-C1500P
1	DOOR CABLE	QC-CXXX (LENGTH AS REQUIRED)
1	DOOR CLOSER	DC6210-A4-689
1	KICKPLATE	10" X 2" LDW.050-US32D
1	SMOKE GASKET	S88D (HEAD AND JAMBS)
1	POWER SUPPLY	BPS24-1

ELECTRONIC ACCESS ON SECURE SIDE OF DOOR. LOCKSET HAS BUILT IN REQUEST TO EXIT AND DOOR POSITION SWITCH

**HARDWARE SET # 4A**

DOORS: A122, A123, A124, A125, A128A, A128B, A128C, A128D, A128E,  
A142, B109, B110

1	CONTINUOUS HINGE	CFMHD1 X PT PREP
1	ELECTRONIC LOCKSET	ML20606-NAC-SEC-NSA-US26D
1	POWER TRANSFER	EL-CEPT-US32D
1	FRAME CABLE	QC-C1500P
1	DOOR CABLE	QC-CXXX (LENGTH AS REQUIRED)
1	DOOR CLOSER	DC6210-A3/A10-689
1	KICKPLATE	10" X 2" LDW.050-US32D
1	WALL STOP	400-US26D
1	SMOKE GASKET	S88D (HEAD AND JAMBS)
1	POWER SUPPLY	BPS24-1

ELECTRONIC ACCESS ON SECURE SIDE OF DOOR. LOCKSET HAS BUILT IN REQUEST TO EXIT AND  
DOOR POSITION SWITCH

**HARDWARE SET # 4B**

DOORS: B109A

1	CONTINUOUS HINGE	CFMHD1 X PT PREP
1	ELECTRONIC LOCKSET	ML20606-NAC-SEC-NSA-US26D
1	POWER TRANSFER	EL-CEPT-US32D
1	FRAME CABLE	QC-C1500P
1	DOOR CABLE	QC-CXXX (LENGTH AS REQUIRED)
1	DOOR CLOSER	DC6210-A4-689
1	KICKPLATE	10" X 2" LDW.050-US32D
1	THRESHOLD	171A-SSWS-PA
1	DOOR SWEEP	315CN
1	SMOKE GASKET	S88D (HEAD AND JAMBS)

ELECTRONIC ACCESS ON SECURE SIDE OF DOOR. LOCKSET HAS BUILT IN REQUEST TO EXIT AND  
DOOR POSITION SWITCH

**HARDWARE SET # 5**

DOORS: A128, A131, A142A

1	CONTINUOUS HINGE	CFMHD1 PT PREP
1	ELECTRIC LOCKSET	ML20932-NSA-US26D
1	POWER TRANSFER	EL-CEPT-US32D
1	FRAME CABLE	QC-C1500P
1	DOOR CABLE	QC-CXXX (LENGTH AS REQUIRED)
1	DOOR CLOSER	DC6210-A3-689
1	KICKPLATE	10" X 2" LDW.050-US32D
1	WALL STOP	400-US26D
1	SMOKE GASKET	S88D (HEAD AND JAMBS)

ELECTRONIC ACCESS CONTROLS BOTH SIDES OF DOOR

**HARDWARE SET # 6**

DOORS: A128F

3	EACH HINGE	4.5 X 4.5 TA2714-US26D
1	LOCKSET	ML2057-NSA-US26D
1	DOOR CLOSER	DC6200-689
1	WALL STOP	400-US26D
3	SILENCERS	608

**HARDWARE SET # 7**

DOORS: A129, A130

3	EACH HINGE	4.5 X 4.5 TA2714-US26D
1	LOCKSET	ML2053-NSA-US26D
1	WALL STOP	400-US26D
3	SILENCERS	608

**HARDWARE SET # 8**

DOORS: A133

3	EACH HINGE	4.5 X 4.5 TA2314-US32D
1	PRIVACY SET	ML2060-NSA-M19VN-US26D
1	DOOR CLOSER	DC6210-A3-689
1	KICKPLATE	10" X 2" LDW.050-US32D
1	MOP PLATE	10" X 1" LDW.050-US32D
1	WALL STOP	400-US26D
3	SILENCERS	608

**HARDWARE SET # 8A**

DOORS: B112

3	EACH HINGE	4.5 X 4.5 TA2314-US32D
1	PRIVACY SET	ML2060-NSA-M19VN-US26D
1	KICKPLATE	10" X 2" LDW.050-US32D
1	MOP PLATE	4" X 1" LDW.050-US32D
1	WALL STOP	400-US26D
3	SILENCERS	608

**HARDWARE SET # 8B**

DOORS: B106

3	EACH HINGE	4.5 X 4.5 TA2314-US32D
1	PRIVACY SET	ML2060-NSA-M19VN-US26D
1	KICKPLATE	10" X 2" LDW.050-US32D
1	MOP PLATE	10" X 1" LDW.-050-US32D
1	OVERHEAD STOP	9-XXX-630
3	SILENCERS	608

**HARDWARE SET # 9**

DOORS: A135, A136, B111, B113, B115

3	EACH HINGE	4.5 X 4.5 T4A3386-US32D
1	PUSH PLATE	70F-US32D
1	PULL PLATE	BF110-70C-US32D
1	DOOR CLOSER	DC6210-A3/A10-689
1	KICKPLATE	10" X 2" LDW.050-US32D
1	MOP PLATE	10" X 1" LDW.050-US32D
1	WALL STOP	400-US26D
3	SILENCERS	608

**HARDWARE SET # 10**

DOORS: A141

1	LOCKSET	CL3357-NZD-US26D
		OR
		ML2057-NSA-US26D
1	ELECTRIC STRIKE	1600CLB-US32D
1	EXIT SENSOR	XMS
1	DOOR SWITCH	DPSM-BK

\*\* LOCKSET TO REPLACE EXISTING AS REQUIRED PER EXISTING DOOR PREP

**END OF SECTION 08 71 00**