

SECTION 080671 – DOOR HARDWARE SCHEDULE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section references specification sections relating to commercial door hardware for the following:
 - 1. Swinging doors.
 - 2. Sliding Doors.
 - 3. Other doors to the extent indicated.
- B. Commercial door hardware includes, but is not necessarily limited to, the following:
 - 1. Mechanical door hardware.
 - 2. Electromechanical and access control door hardware.
 - 3. Electromechanical and access control door hardware power supplies, back-ups and surge protection.
 - 4. Automatic operators.
 - 5. Cylinders specified for doors in other sections.
- C. Related Sections:
 - 1. Division 08 Section “Hollow Metal Doors and Frames”.
 - 2. Division 08 Sections “Flush and Clad Wood Doors”.
 - 3. Division 08 Section “Stile and Rail Wood Doors”.
 - 4. Division 08 Section “Integrated Door Opening Assemblies”.
 - 5. Division 08 Section “Door Hardware”.
 - 6. Division 08 Section “Automatic Door Operators”.
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. NFPA 70 - National Electrical Code.
 - 4. NFPA 80 - Fire Doors and Windows.
 - 5. NFPA 101 - Life Safety Code.

6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

- E. Standards: Reference Related Sections for requirements regarding compliance with applicable industry standards.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
 3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.
- C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner to approve submitted keying schedule prior to the ordering of permanent cylinders.

- D. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.
- E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service representatives. The final copies delivered after completion of the installation test to include "as built" modifications made during installation, checkout, and acceptance.
- F. Warranties and Maintenance: Special warranties and maintenance agreements specified in the Related Sections.

1.4 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum [5] years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.
- B. Installer Qualifications: Installers, trained by the primary product manufacturers, with a minimum [3] years documented experience installing both standard and electrified builders hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum [5] years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor in good standing by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.
- D. Source Limitations: Obtain each type and variety of Door Hardware specified in the Related Sections from a single source, qualified supplier unless otherwise indicated.
- E. Regulatory Requirements: Comply with NFPA 70, NFPA 80, NFPA 101 and ANSI A117.1 requirements and guidelines as directed in the applicable model building code.
- F. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Division 08 Sections (Steel, Aluminum and Wood) doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

1.8 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Refer to "PART 3 – EXECUTION" for required specification sections.

PART 3 - EXECUTION

3.1 DOOR HARDWARE SETS

- A. The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.
- B. The supplier is responsible for handing and sizing all products as listed in the door hardware sets. Quantities listed are for each pair of doors, or for each single door.
- C. Products listed in the Door Hardware Sets must meet the requirements described in the specification sections noted.
 - 1. Section 08 71 00 – Door Hardware.
 - 2. Section 08 71 13 – Automatic Door Operators.
 - 3. Section 08 74 00 – Access Control Hardware.
- D. Manufacturer's Abbreviations:
 - 1. MK - McKinney
 - 2. RF - Rixson
 - 3. RO - Rockwood
 - 4. YA - Yale
 - 5. SA - Sargent
 - 6. BE - Stanley Security Solutions Inc (BE)
 - 7. HS - HES
 - 8. SU - Securitron
 - 9. NO - Norton
 - 10. PE - Pemko

Hardware Schedule

Set: 1.0

Doors: C3A14A, C3A14B, C3A16A, C3A24A

6 Heavyweight Hinge

H TA786 x NRP 4-1/2" x 4-1/2" US26D MK 087100

2 Surface Vert Rod Fire Exit	12 NB8710	US32D	SA	087100
2 Door Closer (surface)	MC 351 P10	EN	SA	087100
2 Electromagnetic Holder	998	689	RF	087400
1 Gasketing	S88D (Head & Jambs)		PE	087100
1 Astragal	S772D Door Height		PE	087100

Notes: MAGNETIC HOLDER TO BE RELEASED BY FIRE ALARM ACTIVATION.

Set: 2.0

Doors: C3A16B, C3A20A, C3A21A

6 Heavyweight Hinge	H TA786 x NRP 4-1/2" x 4-1/2"	US26D	MK	087100
2 Exit Device	16 SG NB8713 ETL	US32D	SA	087100
4 Cylinder	Best Cylinder as required	626	BE	087100
2 Door Closer (surface w/stop arm)	MC 351 PS	EN	SA	087100
2 Armor Plate	K1050 F 36" X 2" LDW 4BE	US32D-MS	RO	087100
2 Silencer	608		RO	087100

Set: 3.0

Doors: 3A201AA, 3A201BA

2 Heavyweight Hinge	HTA786 QC-12 4-1/2" x 4-1/2"	US26D	MK	087100
4 Heavyweight Hinge	HTA786 4-1/2" x 4-1/2"	US26D	MK	087100
2 Exit Device	55 56 8815 ETL	US32D	SA	087100
2 Operator Switch	685D		NO	087113
2 Automatic Operator	5910 / 5930 (as required)	689	NO	087113
2 Armor Plate	K1050 F 36" X 2" LDW 4BE	US32D-MS	RO	087100
2 ElectroLynx Harness	QC-C1500P		MK	087100
2 ElectroLynx Harness	QC-C*** (Length as Required)		MK	087100
1 Power Supply	BPS-24 (Size as Required)		SU	087100
1 Power Supply	BPS-24-2		SU	087100

Notes: PUSHING EITHER WALL SWITCH WILL UNLOCK EXIT DEVICE AND ACTIVATE OPERATOR.

Set: 4.0

Doors: 3A162A, 3A163A, 3A201AD, 3A201BD

6 Hinge	H TA714 x NRP 4-1/2" x 4-1/2"	US26D	MK	087100
2 Flush Bolt	555/557	US26D	RO	087100
1 Dust Proof Strike	570	US26D	RO	087100
1 Mortise Lock (storeroom)	AUR 8805FL LC YMS	626	YA	087100
1 Cylinder	Best Cylinder as required	626	BE	087100
2 Surface Overhead Holder/Stop	10-336	630	RF	087100
2 Silencer	608		RO	087100

Set: 5.0

Doors: 3A167A

6 Hinge	H TA714 x NRP 4-1/2" x 4-1/2"	US26D	MK	087100
2 Flush Bolt	1842 / 1942	US26D	RO	087100
1 Dust Proof Strike	570	US26D	RO	087100
1 Mortise Lock (storeroom)	AUR 8805FL LC YMS	626	YA	087100
1 Cylinder	Best Cylinder as required	626	BE	087100
1 Coordinator	L1672 Wear Plates	Black	RO	087100
2 Mounting Bracket	1601AB	US28	RO	087100
2 Door Closer (surface w/stop arm)	MC 351 PS	EN	SA	087100
1 Gasketing	S88D (Head & Jambs)		PE	087100
1 Astragal	S772D Door Height		PE	

Set: 6.0

Doors: 3A110AA, 3A143A

3 Hinge	H TA714 4-1/2" x 4-1/2"	US26D	MK	087100
1 Mortise Lock (storeroom)	AUR 8805FL LC YMS	626	YA	087100
1 Cylinder	Best Cylinder as required	626	BE	087100
1 Door Closer (surface)	MC 351 O	EN	SA	087100
1 Kickplate	K1050 12" x 2 " LDW 4BE	US32D	RO	087100
1 Door Stop	409	US32D	RO	087100
3 Silencer	608		RO	087100

Set: 7.0

Doors: 3A166A, C3A13A

3 Hinge	H TA714 x NRP 4-1/2" x 4-1/2"	US26D	MK 087100
1 Mortise Lock (storeroom)	AUR 8805FL LC YMS	626	YA 087100
1 Cylinder	Best Cylinder as required	626	BE 087100
1 Door Closer (surface w/stop arm)	MC 351 PS	EN	SA 087100
1 Kickplate	K1050 12" x 2 " LDW 4BE	US32D	RO 087100
1 Door Stop	409	US32D	RO 087100
3 Silencer	608		RO 087100

Set: 8.0

Doors: 3A111A

3 Hinge	H TA714 4-1/2" x 4-1/2"	US26D	MK 087100
1 Mortise Lock (entry)	AUR 8807FL LC YMS	626	YA 087100
1 Cylinder	Best Cylinder as required	626	BE 087100
1 Door Stop	409	US32D	RO 087100
3 Silencer	608		RO 087100

Set: 9.0

Doors: 3A110A, 3A201AB

3 Hinge	H TA714 4-1/2" x 4-1/2"	US26D	MK 087100
1 Mortise Lock (classroom)	AUR 8808FL LC YMS	626	YA 087100
1 Cylinder	Best Cylinder as required	626	BE 087100
1 Door Closer (surface)	MC 351 O	EN	SA 087100
1 Kickplate	K1050 12" x 2 " LDW 4BE	US32D	RO 087100
1 Door Stop	409	US32D	RO 087100
3 Silencer	608		RO 087100

Set: 10.0

Doors: 3A201BB

3 Heavyweight Hinge	H TA786 x NRP 4-1/2" x 4-1/2"	US26D	MK 087100
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1 Mortise Lock (classroom)	AUR 8808FL LC YMS	626	YA 087100
1 Cylinder	Best Cylinder as required	626	BE 087100
1 Door Closer (surface w/stop arm)	MC 351 PS	EN	SA 087100
1 Kickplate	K1050 12" x 2 " LDW 4BE	US32D	RO 087100
3 Silencer	608		RO 087100

Set: 11.0

Doors: 3A201A, 3A201B

6 Hinge	H TA714 4-1/2" x 4-1/2"	US26D	MK 087100
1 Mortise Lock (classroom)	AUR 8808FL LC YMS	626	YA 087100
1 Cylinder	Best Cylinder as required	626	BE 087100
2 Door Closer (surface)	MC 351 O	EN	SA 087100
2 Kickplate	K1050 12" x 2 " LDW 4BE	US32D	RO 087100
2 Door Stop	409	US32D	RO 087100
1 Gasketing	S88D (Head & Jambs)	PE	087100

Set: 12.0

Doors: 3A140AA, 3A141AA, 3A164A

3 Hinge	H TA714 4-1/2" x 4-1/2"	US26D	MK 087100
1 Mortise Lock (bathroom indicator)	AUR 8864FL YMS	626	YA 087100
1 Door Stop	409	US32D	RO 087100
3 Silencer	608		RO 087100

Set: 13.0

Doors: 3A140A, 3A141A, 3A165A

3 Heavyweight Hinge	HTA786 4-1/2" x 4-1/2"	US26D	MK 087100
1 Push Plate	70C	US32D- MS	RO 087100
1 Pull Plate	110x70C	US32D- MS	RO 087100
1 Door Closer (surface)	MC 351 O	EN	SA 087100
1 Kickplate	K1050 12" x 2 " LDW 4BE	US32D	RO 087100
1 Door Stop	409	US32D	RO 087100
3 Silencer	608		RO 087100

Set: 14.0

Doors: 3A149B, 3A149C, 3A152B, 3A152C

3 Heavyweight Hinge	HTA786 4-1/2" x 4-1/2"	US26D	MK	087100
1 Passage Set	8215 ALP	US32D	SA	087100
1 Door Closer (surface)	MC 351 O	EN	SA	087100
1 Kickplate	K1050 12" x 2 " LDW 4BE	US32D	RO	087100
1 Gasketing	S88D (Head & Jambs)		PE	087100
1 Door Bottom	2343AV		PE	087100

Set: 15.0

Doors: 3A149A, 3A152A, 3A201AC, 3A201BC

3 Heavyweight Hinge	HTA786 4-1/2" x 4-1/2"	US26D	MK	087100
1 Passage Set	8215 ALP	US32D	SA	087100
1 Door Closer (surface w/stop arm)	MC 351 PS	EN	SA	087100
1 Kickplate	K1050 12" x 2 " LDW 4BE	US32D	RO	087100
1 Gasketing	S88D (Head & Jambs)		PE	087100
1 Door Bottom	2343AV		PE	087100

Set: 16.0

Doors: 3A201A.2A, 3A201B.1A

3 Heavyweight Hinge	HTA786 4-1/2" x 4-1/2"	US26D	MK	087100
1 Passage Set	8215 ALP	US32D	SA	087100
1 Door Closer (surface)	MC 351 O	EN	SA	087100
1 Kickplate	K1050 12" x 2 " LDW 4BE	US32D	RO	087100
1 Gasketing	S88D (Head & Jambs)		PE	087100
1 Door Bottom	2343AV		PE	087100

Set: 17.0

Doors: 3A144A, 3A161A

1 Hinge	H TA714-ET QC-12 4-1/2" x 4-1/2"	US26D	MK	087100
2 Hinge	H TA714 4-1/2" x 4-1/2"	US26D	MK	087100
1 Integrated Card Reader Lock	AUR S8887FL x SYM LC	626	YA	087400
1 Door Closer (surface)	MC 351 O	EN	SA	087100

1 Kickplate	K1050 12" x 2 " LDW 4BE	US32D	RO	087100
1 Door Stop	409	US32D	RO	087100
1 ElectroLynx Harness	QC-C1500P		MK	087100
1 ElectroLynx Harness	QC-C*** (Length as Required)		MK	087100
3 Silencer	608		RO	087100

Notes: PRESENTING AUTHORIZED CREDENTIAL TO INTERGAL LOCK CARD READER
UNLOCKS EXTERIOR TRIM ALLOWING ACCESS. INSIDE LEVER ALLOWS EGRESS AT ALL
TIMES. INSIDE LEVER HAS RX SWITCH. LATCHBOLT MONITORED. POWER SUPPLY BY
SECURITY INTEGRATOR.

Set: 18.0

Doors: 3A142A, 3A149D, 3A150A, 3A151A, 3A153A

1 Hardware	Hardware by Door Manufacturer	OT
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Set: 19.0

Doors: 3A183A, 3A183AA

1 Hardware	Hardware by Door Manufacturer	OT
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END OF SECTION 080671

