

**SECTION 08700**

**DOOR HARDWARE**

**PART 1 – GENERAL**

**1. GENERAL REQUIREMENTS**

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

**2. SUMMARY**

2.1 This Section includes commercial door hardware for the following:

- A. Swinging doors
- B. Sliding doors
- C. Other doors to the extent indicated

2.2 Door hardware includes, but is not necessarily limited to, the following:

- A. Mechanical door hardware
- B. Electromechanical door hardware
- C. Cylinders specified for doors in other sections

2.3 **RELATED SECTIONS**

- A. Division 08 Section “Hollow Metal Doors and Frames”
- B. Division 08 Section “Flush Wood Doors”
- C. Division 08 Section “Aluminum-Framed Entrances and Storefronts”

2.4 **CODES AND REFERENCES**

Comply with the version year adopted by the Authority Having Jurisdiction.

- A. ANSI A117.1 - Accessible and Usable Buildings and Facilities
- B. ICC/IBC - International Building Code
- C. NFPA 70 - National Electrical Code
- D. NFPA 80 - Fire Doors and Windows
- E. NFPA 101 - Life Safety Code
- F. NFPA 105 - Installation of Smoke Door Assemblies
- G. State Building Codes, Local Amendments

2.5 **STANDARDS**

All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

- A. ANSI/BHMA Certified Product Standards - A156 Series
- B. UL10C – Positive Pressure Fire Tests of Door Assemblies
- C. UL 305 – Panic Hardware

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**3. SUBMITTALS**

3.1 PRODUCT DATA

Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions, and finishes.

3.2 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.

3.2.1 Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

3.2.2 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.

3.2.3 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.
- H. Warranty information for each product.

3.2.4 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.

3.3 SHOP DRAWINGS

Details of electrified access control hardware indicating the following:

3.3.1 Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

- A. Elevation diagram of each unique access-controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
- B. Complete (risers, point-to-point) access control system block wiring diagrams.
- C. Wiring instructions for each electronic component scheduled herein.

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3.3.2 Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

3.4 KEYING SCHEDULE

After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

3.5 INFORMATIONAL SUBMITTALS

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.

3.6 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 Procedures.

**4. QUALITY ASSURANCE**

4.1 MANUFACTURER 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.

4.2 CERTIFIED PRODUCTS

Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

4.3 INSTALLER QUALIFICATIONS

A minimum 5 years documented experience installing both standard and electrified door 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.

4.4 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 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.

4.5. SOURCE LIMITATIONS

Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

4.5.1 Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

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- 4.5.2 Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
  - 4.6 Each unit to bear third party permanent label demonstrating compliance with the referenced standards.
  - 4.7 KEYING CONFERENCE  
Conduct conference to comply with requirements in Division 01 Section “Project Meetings.”  
Keying conference to incorporate the following criteria into the final keying schedule document:
    - 4.7.1. Function of building, purpose of each area and degree of security required
    - 4.7.2 Plans for existing and future key system expansion
    - 4.7.3 Requirements for key control storage and software
    - 4.7.4 Installation of permanent keys, cylinder cores and software
    - 4.7.5 Address and requirements for delivery of keys
  - 4.8 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.
    - 4.8.1 Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
    - 4.8.2 Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
    - 4.8.3 Review sequence of operation narratives for each unique access-controlled opening.
    - 4.8.4 Review and finalize construction schedule and verify availability of materials.
    - 4.8.5 Review the required inspecting, testing, commissioning, and demonstration procedures
  - 4.9 At completion of installation, provide written documentation that components were applied to manufacturer’s instructions and recommendations and according to approved schedule.
- 5. DELIVERY, STORAGE, AND HANDLING**
- 5.1 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.
  - 5.2 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.

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- 5.3 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”.

**6. COORDINATION**

6.1 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.

6.2 DOOR FRAME PREPARATION

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.

**7. WARRANTY**

7.1 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.

7.2 WARRANTY PERIOD

Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

- 7.2.1 Structural failures including excessive deflection, cracking, or breakage
- 7.2.2 Faulty operation of the hardware
- 7.2.3 Deterioration of metals, metal finishes, and other materials beyond normal weathering
- 7.2.4 Electrical component defects and failures within the systems operation

7.3 STANDARD WARRANTY PERIOD

One year from date of Substantial Completion, unless otherwise indicated.

7.4 SPECIAL WARRANTY PERIODS

- 7.4.1 Ten years for mortise locks and latches
- 7.4.2 Ten years for extra heavy duty cylindrical (bored) locks and latches.
- 7.4.3 Five years for exit hardware
- 7.4.4 Twenty five years for manual overhead door closer bodies

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7.4.5 Five years for motorized electric latch retraction exit devices

7.4.6 Two years for electromechanical door hardware, unless noted otherwise.

**8. MAINTENANCE SERVICE**

**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**

**9. SCHEDULED DOOR HARDWARE**

9.1 **GENERAL**

Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

9.2 **DESIGNATIONS**

Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

**Named Manufacturer's Products**

Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

9.3 **SUBSTITUTIONS**

Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

**10. HANGING DEVICES**

10.1 **HINGES**

ANSI/BHMA A156.1 certified butt-hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

10.1.1 **Quantity:**

Provide the following hinge quantity:

- A. Two Hinges: For doors with heights up to 60 inches.
- B. Three Hinges: For doors with heights 61 to 90 inches.
- C. Four Hinges: For doors with heights 91 to 120 inches.
- D. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

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10.2 HINGE SIZE

Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

10.2.1 Widths up to 3'0": 4-1/2" standard or heavy weight as specified.

10.2.2 Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.

10.3 HINGE WEIGHT AND BASE MATERIAL

Unless otherwise indicated, provide the following:

10.3.1 Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.

10.3.2 Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

10.4 Hinge Options: Comply with the following:

Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

10.5 MANUFACTURERS

- A. Bommer Industries (BO)
- B. Hager Companies (HA)
- C. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK)

10.6 CONTINUOUS GEARED HINGES

ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge. with minimum 0.120-inch thick extruded 6060 T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

10.6.1 Manufacturers

- A. Bommer Industries (BO)
- B. Hager Companies (HA)
- C. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE)

10.7 PIN AND BARREL CONTINUOUS HINGES

ANSI/BHMA A156.26 Grade 1-600 certified pin and barrel continuous hinges with minimum 14-gauge Type 304 stainless steel hinge leaves, concealed stainless pin, and twin self-lubricated nylon bearings at each knuckle separation. Factory trim hinges to suit door height and prepare for electrical cut-outs.

10.7.1 Manufacturers

- A. Markar Products; ASSA ABLOY Architectural Door Accessories (MR)
- B. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE)

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**11. POWER TRANSFER DEVICES**

**11.1 CONCEALED QUICK CONNECT ELECTRIC POWER TRANSFERS**

11.1.1 Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

11.1.2 Manufacturers

- A. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE) – EL-CEPT Series
- B. Securitron (SU) - EL-CEPT Series

**11.2 ELECTRIC DOOR WIRE HARNESSSES**

11.2.1 Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

11.2.2 Provide one each of the following tools as part of the base bid contract:

- A. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Electrical Connecting Kit: QC-R001
- B. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Connector Hand Tool: QC-R003

11.2.3 Manufacturers

- A. Hager Companies (HA) - Quick Connect
- B. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) – QC-C Series

**12. DOOR OPERATING TRIM**

**12.1 FLUSH BOLTS AND SURFACE BOLTS**

ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

12.1.1 Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.

12.1.2 Furnish dust proof strikes for bottom bolts.



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12.1.3 Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.

12.1.4 Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.

12.1.5 Manufacturers

- A. Burns Manufacturing (BU)
- B. Door Controls International (DC)
- C. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO)

12.2 DOOR PUSH PLATES AND PULLS

ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

12.2.1 Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.

12.2.2 Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.

12.2.3 Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.

12.2.4 Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.

12.2.5 Manufacturers

- A. Burns Manufacturing (BU)
- B. Hiawatha, Inc. (HI)
- C. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO)

**13. CYLINDERS AND KEYING**

13.1 GENERAL

Cylinder manufacturer to have minimum (10) years' experience designing secured master key systems and have on record a published security keying system policy.

13.2 SOURCE LIMITATIONS

Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

13.3 CYLINDERS

Original manufacturer cylinders complying with the following:

13.3.1 Threaded mortise cylinders with rings and cams to suit hardware application.

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13.3.2 Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.

13.3.3 Bored or cylindrical lock cylinders with tailpieces as required to suit locks.

13.3.4 Tubular deadlocks and other auxiliary locks.

13.3.5 Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.

13.4 PATENTED CYLINDERS

ANSI/BHMA A156.5, Grade 1, certified patented cylinders employing a utility patented and restricted keyway requiring the use of a patented key. Cylinders are to be protected from unauthorized manufacture and distribution by manufacturer's United States patents. Cylinders are to be factory keyed with owner having the ability for on-site original key cutting.

13.4.1 Patented key systems shall not be established with products that have an expired patent. Expired systems shall only be specified and supplied to support existing systems.

13.4.2 Manufacturers

- A. Sargent (SA) – Degree DG1
- C. No Substitution

13.5 KEYING SYSTEM

Each type of lock and cylinders to be factory keyed.

13.4.1 Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.

13.4.2 Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.

13.4.3 New System: Key locks to a new key system as directed by the Owner.

13.5 KEY QUANTITY

Provide the following minimum number of keys:

13.5.1 Change Keys per Cylinder: Two (2)

13.5.2 Master Keys (per Master Key Level/Group): Five (5)

13.6 KEY REGISTRATION LIST (Bitting List)

13.6.1 Provide keying transcript list to Owner's representative in the proper format for importing into key control software.

13.6.2 Provide transcript list in writing or electronic file as directed by the Owner.

13.7 KEY CONTROL CABINET

Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

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- 13.7.1 Manufacturers
- A. Lund Equipment (LU)
  - B. MMF Industries (MM)
  - C. Telkee (TK)

**14. MECHANICAL LOCKS AND LATCHING DEVICES**

14.1 MORTISE LOCKSETS, GRADE 1 (HEAVY DUTY)

ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.

- 14.1.1 Where specified, provide status indicators with highly reflective color and wording for “locked/unlocked” or “vacant/occupied” with custom wording options if required. Indicator to be located above the cylinder with the inside thumb-turn not blocking the visibility of the indicator status. Indicator window size to be a minimum of 2.1” x 0.6” with a curved design allowing a 180 degree viewing angle with protective covering to prevent tampering.

14.1.2 Manufacturers

- A. Sargent Manufacturing (SA) – 8200 Series
- B. No Substitution

14.2 CYLINDRICAL LOCKSETS, GRADE 1 (HEAVY DUTY)

ANSI/BHMA A156.2, Series 4000, Operational Grade 1 Certified Products Directory (CPD) listed.

- 14.2.1 Locks shall meet or exceed the requirements of ANSI/BHMA A156.2 Series 4000, Grade 1 with all standard trims, as follows:

- A. Cycle Test: ANSI/BHMA A156.2 Grade 1 requirements with no lever sag.
- B. Abusive Locked Lever Torque: Exceed 3,100 in-lb with no entry; lock to maintain egress functionality in compliance with BHMA certification requirements.
- C. Offset Lever Pull: Exceed 1,600 lbs with no entry (8 times ANSI/BHMA A156.2 requirements).
- D. Latch Retraction with Preload: Exceed 100 lb. preload while maintaining ANSI/BHMA requirements for operation in warped doors (2 times ANSI/BHMA A156.2 requirements).

14.2.2 Vertical Impact

Exceed 100 vertical impacts (20 times ANSI/BHMA A156.2 requirements).

- 14.2.3 Furnish with solid cast levers, standard 2 3/4" backset, and 1/2" (3/4" at rated paired openings) throw brass or stainless steel latchbolt.

- 14.2.4 Locks are to be non-handed and fully field reversible.

14.2.5 Manufacturers

- A. Sargent Manufacturing (SA) – 10 Line
- B. No Substitution

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**15. AUXILIARY LOCKS**

15.1 NARROW CASE DEADLOCKS AND DEADLATCHES

ANSI/BHMA 156.13 Series 1000 Grade 1 certified narrow case deadlocks and deadlatches for swinging or sliding door applications. All functions shall be manufactured in a single sized case formed from 12 gauge minimum, corrosion resistant steel (option for fully stainless steel case and components). Provide minimum 2 7/8" throw laminated stainless steel bolt. Bottom rail deadlocks to have 3/8" diameter bolts.

15.2.5 Manufacturers

A. Adams Rite Manufacturing (AD) - MS1850S / MS1950 Series

**16. LOCK AND LATCH STRIKES**

16.1 STRIKES

Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

16.1.1 Flat-Lip Strikes: For locks with three-piece antifriction latch-bolts, as recommended by manufacturer.

16.1.2 Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.

16.1.3 Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.

16.1.4 Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

16.2 STANDARDS

Comply with the following:

16.2.1 Strikes for Mortise Locks and Latches: BHMA A156.13

16.2.2 Strikes for Bored Locks and Latches: BHMA A156.2

16.2.3 Strikes for Auxiliary Deadlocks: BHMA A156.36

16.2.4 Dustproof Strikes: BHMA A156.16

**17. CONVENTIONAL EXIT DEVICES**

17.1 GENERAL REQUIREMENTS

All exit devices specified herein shall meet or exceed the following criteria:

17.1.1 At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

17.1.2 Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.

17.1.3 Except on fire rated doors, provide exit devices with hex key dogging device to hold the push-bar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.

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- 17.1.4 Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
- 17.1.5 Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
  - A. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
  - B. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
- 17.1.6 Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
- 17.1.7 Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
- 17.1.8 Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
- 17.1.9 Extended cycle test: Devices to have been cycle tested to 9 million cycles.
- 17.1.10 Rail Sizing: Provide exit device rails factory sized for proper door width application.
- 17.1.11 Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
- 17.2 CONVENTIONAL PUSH RAIL EXIT DEVICES (Heavy Duty)  
ANSI/BHMA A156.3, Grade 1 certified panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.
  - 17.2.1 Manufacturers
    - A. Sargent Manufacturing (SA) – 80 Series
    - B. No Substitutions
- 17.3 CONVENTIONAL PUSH RAIL EXIT DEVICES (Heavy Duty)  
ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.
  - 17.3.1 Manufacturers
    - A. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series
    - B. Sargent Manufacturing (SA) - 80 Series

**18. ELECTROMECHANICAL EXIT DEVICES**

18.1 ELECTROMECHANICAL PUSH RAIL EXIT DEVICES (Heavy Duty)

ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed panic and fire exit hardware devices subject to same compliance standards and requirements as mechanical exit devices. Electrified exit devices to be of type and design as specified below and in the hardware sets.

18.1.1 Where conventional power supplies are not sufficient, include any specific controllers required to provide the proper inrush current.

18.2.1 Manufacturers

- A. Sargent Manufacturing (SA) - 80 Series
- B. No Substitution

**19. DOOR CLOSERS**

19.1 All door closers specified herein shall meet or exceed the following criteria:

19.1.1 General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers including installation and adjusting information on inside of cover.

19.1.2 Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

19.1.3 Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.

19.1.4 Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

19.1.5 Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

19.1.6 Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

19.2 DOOR CLOSERS, SURFACE MOUNTED (Large Body Cast Iron)

ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control.

19.2.1 Manufacturers

- A. Sargent Manufacturing (SA) – 281 Series
- B. No Substitutions

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**20. ARCHITECTURAL TRIM**

20.1 DOOR PROTECTIVE TRIM

20.1.1 General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.

20.1.2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.

20.1.3 Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.

20.1.4 Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:

A. Stainless Steel: 300 grade, 050-inch thick.

20.1.5 Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.

20.1.6 Manufacturers

A. Burns Manufacturing (BU)

B. Hager Companies (HA)

C. Hiawatha, Inc. (HI)

D. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO)

**21. DOOR STOPS AND HOLDERS**

21.1 GENERAL

Door stops and holders to be of type and design as specified below or in the Hardware Sets.

21.2 DOOR STOPS AND BUMPERS

ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

21.2.1 Manufacturers

A. Burns Manufacturing (BU)

B. Hager Companies (HA)

C. Hiawatha, Inc. (HI)

D. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO)

21.3 OVERHEAD DOOR STOPS AND HOLDERS

ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and

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jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

21.3.1 Manufacturers

- A. Norton Rixson (RF)
- B. Rockwood (RO)
- C. Sargent Manufacturing (SA)

**22. ARCHITECTURAL SEALS**

22.1 GENERAL

Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

22.2 SMOKE LABELED GASKETING

Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

22.2.1 Provide smoke labeled perimeter gasketing at all smoke labeled openings.

22.3 FIRE LABELED GASKETING

Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

20.3.1 Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies

22.4 SOUND-RATED GASKETING

Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

22.5 REPLACEABLE SEAL STRIPS

Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

22.6 MANUFACTURERS

- A. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE)
- B. Reese Enterprises, Inc. (RE)

**23. ELECTRONIC ACCESSORIES**

23.1 LINEAR POWER SUPPLIES

Provide Nationally Recognized Testing Laboratory Listed 12VDC or 24VDC (field selectable) filtered and regulated power supplies. Include battery backup option with integral battery charging capability in addition to operating the DC load in event of line voltage failure. Provide the least number of units, at the appropriate amperage level, sufficient to exceed the required total draw plus 50% for the specified electrified hardware and access control equipment.

23.1.1 Provide the least number of units, at the appropriate amperage level, sufficient to exceed the required total draw for the specified electrified hardware and access



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control equipment.

23.1.2 Manufacturers

- A. Alarm Controls (AK) - APS Series
- B. Corbin Russwin Hardware (RU) - BPS Series
- C. Sargent Manufacturing (SA) - 3500 Series
- D. Securitron (SU) - BPS Series

**24. FABRICATION**

FASTENERS

Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

**25. FINISHES**

25.1 STANDARD

Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

25.2 Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.

25.3 Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

**PART 3 – EXECUTION**

**26. EXAMINATION**

26.1 Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

26.2 Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

**27. PREPARATION**

27.1 Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

27.2 Wood Doors: Comply with ANSI/DHI A115-W series.

**28. INSTALLATION**

28.1 Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

28.1.1 Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

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28.2 MOUNTING HEIGHTS

Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

28.2.1 Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."

28.2.2 DHI TDH-007-20: Installation Guide for Doors and Hardware.

28.2.3 Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."

28.2.4 Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

28.3 RETROFITTING

Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

28.4 THRESHOLDS

Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

28.5 STORAGE

Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

**29. FIELD QUALITY CONTROL**

FIELD INSPECTION (Punch Report)

Reference Division 01 Sections "Closeout Procedures" and "Cash Allowances". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

29.1 Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings

**30. ADJUSTING**

INITIAL ADJUSTMENT

Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

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**31. CLEANING AND PROTECTION**

- 31.1 Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- 31.2 Clean adjacent surfaces soiled by door hardware installation.
- 31.3 Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

**32. DEMONSTRATION**

Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

**33. DOOR HARDWARE SETS**

- 33.1 The 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.
  - A. Quantities listed are for each pair of doors, or for each single door.
  - B. The supplier is responsible for handing and sizing all products.
  - C. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

33.2 MANUFACTURER'S ABBREVIATIONS

- A. MK – McKinney
- B. PE – Pemko
- C. MR – Markar
- D. SU – Securitron
- E. AD – Adams Rite
- F. RO – Rockwood
- G. SA – SARGENT
- H. RF – Rixson
- I. LU – Lund Equipment Co.

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**HARDWARE SETS**

**Set: 1.0**

Doors: 100a

Description: Exterior

2	Continuous Hinge	FM3500 x Door Height	629	MR
2	CVR Exit, Nightlatch	DG1 16 AD8410 106 x 862 GMK	US32D	SA
2	Concealed Vert Rod Exit, Dummy	DG1 16 AD8410 862 GMK	US32D	SA
2	Conc Overhead Stop	1 Series	630	RF
2	Door Closer	281 P10	EN	SA
2	Drop Plate	281D	EN	SA
1	Threshold	279x292AFGPK x Opening Width		PE
2	Sweep	345ANB x Door Width		PE
2	Astragal	305CN x Door Height		PE

Notes: Weatherstripping furnished by Aluminum Door Supplier.

**SET: 2.0**

Doors: 100b

Description: Vestibule

2	Continuous Hinge	FM3500 x Door Height	629	MR
2	Push Bar & Pull	BF15747 T1HD	US32	RO
2	Door Closer	281 CPS	EN	SA
2	Drop Plate	281D	EN	SA
2	Kit	581-2	EN	SA
1	Threshold	2715A x Opening Width		PE
2	Door Sweep	315CN x Door Width		PE
2	Astragal	305CN x Door Height		PE

Notes: Weatherstripping furnished by Aluminum Door Supplier.

**Set: 3.0**

Doors: 120a

Description: Exterior

1	Continuous Hinge	CFMSLF-HD1 or CFMSLI-HD1		PE
1	Rim Exit Device, Storeroom	DG1 16 8804 ETMD GMK	US32D	SA
1	Conc Overhead Stop	1 Series	630	RF
1	Door Closer	281 P10	EN	SA
1	Drop Plate	281D	EN	SA
1	Threshold	279x292AFGPK x Opening Width		PE
1	Sweep	345ANB x Door Width		PE
1	ElectroLynx Harness	QC-C1500P		MK
1	ElectroLynx Harness	QC-C Length Required		MK
1	Power Supply	BPS-24-1		SU

Notes: Weatherstripping furnished by Aluminum Door Supplier.

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**SET: 4.0**

Doors: 125b

Description: Exterior

1	Continuous Hinge	CFMSLF-HD1 or CFMSLI-HD1		PE
1	Rim Exit Device, Exit Only	CPC LD 8810 EO	US32D	SA
1	Conc Overhead Stop	1 Series	630	RF
1	Drop Plate	281D	EN	SA
1	Surface Closer	SRI 281 P10	EN	SA
1	Threshold	279x292AFGPK x Opening Width		PE
1	Sweep	345ANB x Door Width		PE

Notes: Weatherstripping furnished by Aluminum Door Supplier.

**SET: 5.0**

Doors: 125c

Description: Exterior

2	Continuous Hinge	CFMSLF-HD1 or CFMSLI-HD1		PE
2	Concealed Vert Rod Exit, Exit Only	CPC AD8410 EO	US32D	SA
2	Conc Overhead Stop	1 Series	630	RF
2	Drop Plate	281D	EN	SA
2	Surface Closer	SRI 281 P10	EN	SA
1	Threshold	279x292AFGPK x Opening Width		PE
2	Sweep	345ANB x Door Width		PE
2	Astragal	305CN x Door Height		PE

**SET: 6.0**

Doors: B127a, B132a, B132b

Description: Exterior

2	Continuous Hinge	CFMHD1 x Door Height		PE
2	Concealed Vert Rod Exit, Exit Only	MD8610 EO	US32D	SA
2	Door Closer	TB 281 CPS	EN	SA
2	Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D	RO
2	Door Stop	462	US2C	RO
1	Threshold	279x292AFGPK x Opening Width		PE
1	Gasketing	S773D (Head & Jambs)		PE
1	Rain Guard	346C x Overall Frame Width		PE
2	Sweep	345ANB x Door Width		PE
2	Astragal	305CN x Door Height		PE

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**SET: 7.0**

Doors: B130a, B130b  
Description: Exterior

2	Continuous Hinge	CFMSLF-HD1 or CFMSLI-HD1		PE
2	Concealed Vert Rod Exit, Exit Only	AD8410 EO	US32D	SA
2	Conc Overhead Stop	1 Series	630	RF
2	Door Closer	281 P10	EN	SA
2	Drop Plate	281D	EN	SA
1	Threshold	279x292AFGPK x Opening Width		PE
2	Sweep	345ANB x Door Width		PE
2	Astragal	305CN x Door Height		PE

Notes: Weatherstripping furnished by Aluminum Door Supplier.

**SET: 8.0**

Doors: B100a  
Description: Exterior

2	Continuous Hinge	CFMSLF-HD1 or CFMSLI-HD1		PE
1	Shim Kit	601		SA
1	Mullion	L980S	PC	SA
1	Rim Exit Device, Storeroom	DG1 16 8804 862 GMK	US32D	SA
1	Rim Exit Device, Dummy	DG1 16 8810 862 GMK	US32D	SA
1	Mortise Cylinder	DG1 41 GMK	US32D	SA
2	Conc Overhead Stop	1 Series	630	RF
2	Door Closer	281 P10	EN	SA
2	Drop Plate	281D	EN	SA
1	Threshold	279x292AFGPK x Opening Width		PE
1	Gasketing	5110BL x Mullion Height		PE
2	Sweep	345ANB x Door Width		PE
1	Astragal	305CN x Door Height		PE

Notes: Weatherstripping furnished by Aluminum Door Supplier.

**SET: 9.0**

Doors: 106a  
Description: Office

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Entry/Office Lock	DG1 28 10XG05 LMD GMK	US26D	SA
1	Door Stop/Holder	495	US26D	RO

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**SET: 10.0**

Doors: 107a, 114a, B106

Description: Storage, Data, Janitor

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	DG1 28 10XG04 LMD GMK	US26D	SA
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

**SET: 11.0**

Doors: 108a, 111a, 160a

Description: Office

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Entry/Office Lock	DG1 28 10XG05 LMD GMK	US26D	SA
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

**SET: 12.0**

Doors: 109a, 112a, 113a, 159a

Description: Office

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Entry/Office Lock	DG1 28 10XG05 LMD GMK	US26D	SA
1	Wall Stop	409	US32D	RO

**SET: 13.0**

Doors: 121a

Description: Entry

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Rim Exit Device, Classroom	DG164 8813 ETMD GMK	US32D	SA
1	Door Closer	281 CPS	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO

**SET: 14.0**

Doors: 121b

Description: Check-In

1	DA Gate Pivot	4007-MRB	US26D	MK
2	Wall Stop	409	US32D	RO

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**SET: 15.0**

Doors: [122a](#)

Description: Toilet

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Privacy Lock	28 10XU65 LMD	US26D	SA
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

**SET: 16.0**

Doors: [123a](#)

Description: Laundry

3	Hinge, Full Mortise	T4A4786 or T4A3786 5" x 4-1/2"	US26D	MK
1	Classroom Lock	DG1 28 10XG37 LMD GMK	US26D	SA
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

**SET: 17.0**

Doors: [123b](#)

Description: Laundry

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Classroom Lock	DG1 28 10XG37 LMD GMK	US26D	SA
1	Door Closer	281 O	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

**SET: 18.0**

Doors: [124a](#)

Description: Family

1	Continuous Hinge	CFMSLF-HD1 or CFMSLI-HD1		PE
1	Privacy Lock w/ Indicator	CPC V21 EMB 8265 LNMD	US26D	SA
1	Drop Plate	281D	EN	SA
1	Kit	581-2	EN	SA
1	Surface Closer	SRI 281 CPS	EN	SA

**SET: 19.0**

Doors: [125a](#)

Description: Pool

1	Continuous Hinge	CFMSLF-HD1 or CFMSLI-HD1		PE
1	Push Bar & Pull	BF15747 T1HD	US32D-316	RO
1	Drop Plate	281D	EN	SA
1	Surface Closer	SRI 281 P10	EN	SA
1	Wall Stop	409	US32D	RO
1	Threshold	2715A x Opening Width		PE
1	Door Sweep	315CN x Door Width		PE

Notes: Weatherstripping furnished by Aluminum Door Supplier.



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**SET: 20.0**

Doors: 130a

Description: Sauna

1	Continuous Hinge	CFMHD1 x Door Height		PE
2	Wood Pull	RM4114-24 Mtg-Type 5HD Mahogany 1-1/4" Clear	US32D	RO
1	Surface Closer	SRI 281 CPS	EN	SA
1	Threshold	2715A x Opening Width		PE
1	Gasketing	S773D (Head & Jambs)		PE
1	Door Sweep	315CN x Door Width		PE

Notes: Weatherstripping furnished by Aluminum Door Supplier.

**SET: 21.0**

Doors: 131a, 132a

Description: Pool Equipment, Pool Storage

2	Continuous Hinge	CFMSLF-HD1 or CFMSLI-HD1		PE
2	Flush Bolt	555-12	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom/Closet Lock	CPC DG1 28 10XG04 LMD GMK	US26D	SA
2	Conc Overhead Stop	1 Series	630	RF

**SET: 22.0**

Doors: 140a, 150a

Description: Pool Entry

1	Continuous Hinge	CFMSLF-HD1 or CFMSLI-HD1		PE
1	Push Bar & Pull	BF15747 T1HD	US32D-316	RO
1	Conc Overhead Stop	1 Series	630	RF
1	Drop Plate	281D	EN	SA
1	Surface Closer	SRI 281 P10	EN	SA
1	Threshold	2715A x Opening Width		PE
1	Door Sweep	315CN x Door Width		PE

Notes: Weatherstripping furnished by Aluminum Door Supplier.

**SET: 23.0**

Doors: 141a, 151a

Description: Steam

1	Continuous Hinge	CFMSLF-HD1 or CFMSLI-HD1		PE
2	Wood Pull	RM4114-24 Mtg-Type 5HD Mahogany 1-1/4" Clear	US32D	RO
1	Drop Plate	281D	EN	SA
1	Surface Closer	SRI 281 P10	EN	SA
1	Wall Stop	409	US32D	RO
1	Threshold	2715A x Opening Width		PE
1	Door Sweep	315CN x Door Width		PE

Notes: Weatherstripping furnished by Aluminum Door Supplier.

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**SET: 24.0**

Doors: 159b

Description: Trainers

1	Track System	CS-W60 x Length Required		PE
1	Flush Pull	RM790-12	US32D	RO
1	Door Pull	RM7700-24 Mtg-Type 12HD	US32D	RO

**SET: 25.0**

Doors: 161a

Description: Corridor (Rated)

6	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK
2	Surface Vert Rod Exit, Classroom	12 NB8713 ETMD	US32D	SA
2	Door Closer	281 O	EN	SA
2	Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D	RO
2	Wall Stop	409	US32D	RO
1	Gasketing	S88D (Head & Jambs)		PE
2	Astragal	18041CNB x Door Height		PE

**Set: 26.0**

Doors: 163a, 163b

Description: Studio

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Push Bar & Pull	BF15747 T1HD	US32D	RO
1	Door Closer	281 P10	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	409	US32D	RO

**Set: 26.1**

Doors: 165a, 167a

Description: Studio

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Push Bar & Pull	BF15747 T1HD	US32D	RO
1	Door Closer	281 O	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	409	US32D	RO

**GENESIS HEALTH CLUBS**  
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**SET: 27.0**

Doors: B100b, B100c  
 Description: Vestibule

2	Continuous Hinge	CFMSLF-HD1 or CFMSLI-HD1		PE
1	Shim Kit	601		SA
1	Mullion	L980S	PC	SA
1	Rim Exit Device, Storeroom	DG1 16 8804 862 GMK	US32D	SA
1	Rim Exit Device, Dummy	DG1 16 8810 862 GMK	US32D	SA
1	Mortise Cylinder	DG1 41 GMK	US32D	SA
2	Door Closer	281 CPS	EN	SA
2	Drop Plate	281D	EN	SA
2	Kit	581-2	EN	SA
1	Threshold	2715A x Opening Width		PE
2	Door Sweep	315CN x Door Width		PE
1	Gasketing	5110BL x Mullion Height		PE
2	Astragal	305CN x Door Height		PE

Notes: Weatherstripping furnished by Aluminum Door Supplier.

**SET: 28.0**

Doors: B100d  
 Description: Vestibule

Notes: All hardware furnished by Overhead Door Supplier.

**SET: 29.0**

Doors: B109, B110  
 Description: Family Toilet

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Privacy Lock w/ Indicator	V21 EMB 8265 LNMD	US26D	SA
1	Door Closer	281 O	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

**SET: 30.0**

Doors: B116, B117  
 Description: Meeting

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Classroom Lock	DG1 28 10XG37 LMD GMK	US26D	SA
1	Wall Stop	409	US32D	RO
3	Silencer	608		RO

**GENESIS HEALTH CLUBS**  
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**SET: 31.0**

Doors: B121b

Description: Gym Storage

6	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
2	Flush Bolt	555-12	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom/Closet Lock	DG1 28 10XG04 LMD GMK	US26D	SA
2	Surf Overhead Stop	9 Series	652	RF
2	Astragal	18041CNB x Door Height		PE
2	Silencer	608		RO

**SET: 32.0**

Doors: 127a, B128a

Description: Riser, Storage

6	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
2	Flush Bolt	555-12	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom/Closet Lock	DG1 28 10XG04 LMD GMK	US26D	SA
2	Surf Overhead Stop	9 Series	652	RF
2	Silencer	608		RO

Notes: Metal overlapping astragal furnished by Hollow Metal Door Supplier.

**SET: 33.0**

Doors: B127b

Description: Vestibule (Rated)

6	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK
2	Concealed Vert Rod Exit, Classroom	DG1 12 MD8613 ETMD GMK	US32D	SA
2	Door Closer	TB 281 CPS	EN	SA
2	Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D	RO
1	Gasketing	S88D (Head & Jambs)		PE
2	Astragal	18041CNB x Door Height		PE

**SET: 34.0**

Doors: C100a, C101a

Description: Unfinished, Storage (Rated)

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	DG1 28 10XG04 LMD GMK	US26D	SA
1	Door Closer	281 P10	EN	SA
1	Kick Plate	K1050 10" x 2" LDW CSK BEV	US32D	RO
1	Wall Stop	409	US32D	RO
1	Gasketing	S88D (Head & Jambs)		PE

**GENESIS HEALTH CLUBS**  
**Southridge Mall – Des Moines, IA**

**SET: 35.0**

Doors: C102a  
 Description: Electrical

Notes: All hardware is existing.

**SET: 36.0**

Doors: C103a  
 Description: Vestibule

6	Hinge, Full Mortise	T4A4786 or T4A3786 4-1/2" x 4-1/2"	US26D	MK
2	Concealed Vert Rod Exit, Classroom	DG1 MD8613 ETMD GMK	US32D	SA
2	Door Closer	281 P10	EN	SA
2	Kick Plate	K1050 10" x 1" LDW CSK BEV	US32D	RO
2	Wall Stop	409	US32D	RO
2	Astragal	18041CNB x Door Height		PE
2	Silencer	608		RO

**SET: 37.0**

Doors: Misc.  
 Description: Extra's for the project.

100	Keyblank	DG1		SA
1	Key Cabinet	1202-A		LU

Notes: Key blanks will be given directly to the owner.

**End of Section 08700**