SECTION 08710

FINISH HARDWARE

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Each and every Contractor, Subcontractor and/or supplier providing goods or services referenced in or related to this Section shall also be bound by the Documents identified in Section 01010, Paragraph 1.1A, and entitled "Related Documents".

1.02 SUMMARY

A. This Section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed. Furnish and deliver all finish hardware necessary for all doors, also hardware as specified herein and as enumerated in hardware sets and as indicated and required by actual conditions at the building. The hardware shall include the furnishing of all necessary screws, bolts, expansion shields, drop plates, and all other devices necessary for the proper application of the hardware.

B. Related Sections: The following Sections contain requirements that relate to this Section:

1. Section 6 "Finish Carpentry".
2. Section 8 "Standard Steel Doors and Frames".
3. Section 8 "Wood Doors".
4. Section 8 "Aluminum Entrances and Storefronts".
5. Section 8 "Glazing".
6. Section 16 "Security Section".
7. Division 16 "Electrical Sections".

C. Products furnished but not installed under this Section include:

1. Finish Hardware, as detailed in Finish Hardware Sets, required on aluminum entrance doors shall be provided to the Aluminum Door Supplier for his installation.
2. Cabinet Hardware is specified in section 6 "Interior Architectural Woodwork".
3. Cylinders required for locks on overhead coiling doors.

D. Products not furnished under this Section include:

1. Cabinet Hardware is specified in Section 6 "Interior Architectural Woodwork".
2. Security System Hardware is specified in Section 16 "Security Systems".

1.03 REFERENCES

A. Applicable state and local building codes.

B. NFPA – National Fire Protection Association

1. NFPA 80 – Standard for Fire Doors and Fire Windows
2. NFPA 101 – Life Safety code
3. NFPA 105 – Smoke and Draft Control Door Assemblies

C. UL Underwriters Laboratories

1. UL 10B – Fire Tests of Door Assemblies
2. UL 305 – Panic Hardware

D. ICC (CABO) / ANSI A117.1 – Accessible and Usable Buildings and Facilities

E. ADA – Americans with Disabilities Act

F. DHI – Door and Hardware Institute

1. Sequence and Form and for the Hardware Schedule
2. Recommended Locations for Builders Hardware

G. ANSI – American National Standards Institute

1. ANSI/BHMA A156.1 – A156.24 – Standards for Hardware and Specialties.

1.04 SUBMITTALS

A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification sections.

B. Product data including manufacturer's technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish of door hardware.

C. Final hardware schedule coordinated with doors, frames, and related work to ensure proper size, thickness, hand function, and finish of door hardware.

1. Final Hardware Schedule Content: Based on hardware indicated, organize schedule into "hardware sets" indicating complete designation of every item required for each door or opening. Include the following information:

a. Type, style, function, size, and finish of each hardware item.
b. Name and manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of Hardware Heading, cross-referenced to indication of Drawings both on floor plans, in door, and frame schedule.
e. Explanation of all abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for hardware.
g. Door and frame sizes and materials.
h. Keying information.
i. Name and phone number for the local manufacturer's representative for each product.

2. Submittal Sequence: submit final schedule at earliest possible date particularly where acceptance of hardware schedule must precede fabrication of other work that is critical in the Project construction schedule. Include with schedule the product data, samples, shop drawings of other work affected by door hardware, and other information essential to the coordinated review to schedule.
3. Keying Schedule: After a keying meeting between representatives of the Owner, Architect, hardware supplier, and, if requested, the representative for the lock manufacturer, provide a keying schedule, listing the levels of keying, as well as an explanation of the key system's function, the key symbols used, and the door numbers controlled.

D. Samples: If requested by Architect, submit samples of each type of exposed hardware unit in finish indicated and tagged with full description for coordination with schedule. Submit samples prior to submission of final hardware schedule.

1. Samples will be returned to the supplier. Units that are acceptable and remain undamaged through submittal, review, and field comparison process may, after final check of operation, be incorporated in the Work, within limitations of keying coordination requirements.

E. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

F. Wiring Diagrams: Upon final approval of the hardware schedule, submit wiring and riser diagrams as required for the complete and proper installation of all electrical, electromechanical, and electromagnetic products. Submittals must represent that coordination has occurred with the security system submittals and shop drawings. Also, that shop drawings submitted and schedules developed have been specifically reviewed and coordinated for both physical equipment fitment and power requirements with the security system contractor approved shop drawings.

G. "Hardware Schedule and Templates", Hardware schedules shall be created which reference specifically to the specified lock voltages and separately indicating whether the door is a "fail safe" or "fail secure" electrified lock arrangement.

H. Electrified Hardware: Electrified Hardware to be used for security purposes must be UL Listed for Burglary Applications.

I. At the completion of the project, provide Owner with two (2) copies of an Operation and Maintenance Manual. This manual shall consist of a hard cover (3) ring binder wit the project name listed on the front. Included will be:

1. A final copy of the approved and as built hardware schedule.
2. A final copy of the approved keying schedule.
3. Catalog cuts for each item used in the project.
4. Parts list and numbers for each item used.
5. Maintenance instructions for all items.
6. Name, address and phone number of local representative for each item used.

1.05 QUALITY ASSURANCE

A. Substitutions: Products are to be those specified to ensure a uniform basis of acceptable materials. Requests for substitutions must be mad in accordance with Section 1 requirements. If proposing a substitute the specified item and indicate basis for substitution and savings to be made. Provide sample if requested. Certain products have been selected for their unique characteristics and particular project suitability. All Hardware is "Basis-of-Design" product specification as defined in Section 01650. Model numbers (and Manufacturer's) listed n "Hardware Set Schedule" are "Basis-of-Design".

1. Items specified, as "no substitution" shall be provided exactly as listed.
2. Items listed with no substitute manufacturers listed have been requested by the Owner or Architect to match existing for continuity and/or future performance and maintenance standards or because there is no known equal product.
3. If no other products are listed in a category, then "no substitution" is implied.

B. Supplier Qualifications: A recognized architectural door hardware supplier, with warehousing facilities in the Project's vicinity, that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that employs an experienced architectural hardware consultant (AHC) who is available to Owner, architect, and Contractor, at reasonable times during the course of the Work, fore consultation.

1. Require supplier to meet with Owner to finalize keying requirements and to obtain final instructions in writing.

C. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to products tested by UL, Intertek Testing Services, Warnock Hersey, Factory Mutual, or other testing and inspecting organization acceptable to authorities having jurisdiction for use on types and sizes of doors indicated in compliance with requirements of fire-rated door and door frame labels.

1.06 PRODUCT HANDLING

A. Tag each item or package separately with identification related to final hardware schedule, and include basic installation instructions with each item or package.

B. Each item of hardware shall be individually packaged in manufacturer's original container.

C. Receiving and storing of door hardware is responsibility of supplier. Prior to delivery of door hardware to the project, Hardware Supplier must sort and clearly mark with appropriate hardware set number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in same container.

D. Inventory door hardware jointly with representatives of hardware supplier and hardware installer until each is satisfied that count is correct.

E. Deliver individually packaged door hardware items promptly to place of installation (shop or Project site).

F. Provide secure lock-up for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items that are not immediately replaceable so that completion of the Work will not be delayed by hardware losses both before and after installation.

1.07 MAINTENANCE

A. Maintenance Tools and Instructions: Furnish two (2) complete sets of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware. Furnish two (2) extra screws or fasteners of each type size and of the same finish used in this project.

1.08 WARRANTY

A. Provide manufacturer's warrantees as follows:

1.	Closers:	10	years, except electronic closers, 2 years.
2.	Exit Devices:	3	years, except Electrified devices, 1 year.
3.	Hinges:		Life of the building.
4.	Continuous Hinges:	10	years.
5.	All other hardware:	1	year

B. Starting date for all warranty periods to be date of substantial completion of the Project.

C. No liability is to be assumed where damage or faulty operation is due to improper installation, improper use, or abuse.

D. Products judged to be defective during the warranty period shall be replaced or repaired in accordance with the manufacture's warranty, at no additional cost to the Owner.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Butts and Hinges:

a. Hager Companies
b. Stanley Hardware
c. McKinney Hinge, Div of Assa Abloy.
d. Bommer

2. Continuous Hinges:

    a. MarKar Products, Inc.
    b. Hager Companies
    c. Pemko

3. Key Control System:

    a. Lund, Inc.
    b. HPC
    c. Telkee Inc.

4. Cylinders and Locks:

    a. Corbin-Russwin Architectural Hardware, Div of Assa Abloy, "ML2000" Series.
    b. Schlage Lock, Div. of Ingersoll-Rand., "L" Series.
    c. Sargent, Div of Assa Abloy "8200" Series.
    d. Medeco Lock Cylinders, Div of Assa Abloy– **"NO SUBSTITUTIONS"**
    e. Locknetics, Div. of Ingersoll-Rand – "CM" Series – **"NO SUBSTITUTIONS"**

5. Flush Bolts (automatic where required)

    a. Rockwood Manufacturing
    b. H. B. Ives, Div. of Ingersoll-Rand
    c. Hager Companies
    d. Glynn Johnson, Div. of Ingersoll-Rand.

6. Exit/Panic Devices (provide U.L. label rated doors):

    a. Corbin/Russwin, Div of Assa Abloy, "5000" Series
    b. Von Duprin, Div. of Ingersoll-Rand, "98/99" Series
    c. Sargent, Div of Assa Abloy, "80" Series
    d. Precision Hardware, "1100/D-1200" Series

7. Push/Pull Units:

    a. Hager Companies
    b. Rockwood, Mfr.
    c. H. B. Ives, Div. of Ingersoll-Rand

8. Overhead Surface Closers:

    a. Norton, Div of Assa Abloy. "7500/7700" Series
    b. LCN, Div. of Ingersoll-Rand. "4000" Series
    c. Sargent, Div of Assa Abloy, Inc., "281" Series

9. Door Control Devices:

    a. Rixson, Div of Assa Abloy
    b. Sargent, Div of Assa Abloy

c. Glynn Johnson, Div. of Ingersoll-Rand.

10. Kick and Mop Plates:

a. Rockwood
b. Hager Companies
c. H. B. Ives, Div. of Ingersoll-Rand.

11. Weather-stripping and Seals:

a. Hager Companies
b. Pemko Manufacturing Co., Inc.
c. Reese Enterprises, Inc.
d. National Guard Products.

12. Thresholds:

a. Hager Companies
b. Pemko Manufacturing Co., Inc.
c. Reese Enterprises, Inc.
d. National Guard Products.

13. Automatic Drop Seals:

a. Hager Companies
b. Pemko Manufacturing Co., Inc.
c. Reese Enterprises, Inc.
d. National Guard Products.

14. Sound Stripping:

a. Hager Companies
b. Pemko Manufacturing Co., Inc.
c. Reese Enterprises, Inc.
d. National Guard Products.

15. Astragals:

a. Hager Companies
b. Pemko Manufacturing Co., Inc.
c. Reese Enterprises, Inc.
d. National Guard Products

16. Door Stops:

a. Rockwood Manufacturing
b. H.B. Ives, Div. of Ingersoll-Rand
c. Hager Companies
d. Glynn Johnson, Div. of Ingersoll-Rand.

17. Electrified Hinges

    a. Hager Companies
    b. Stanley Hardware
    c. McKinney Hinge, Div of Assa Abloy
    d. Bommer

18. Electrified Power Transfers

    a. Locknetics, Div. of Ingersoll-Rand
    b. Precision Hardware.
    c. Von-Duprin, Div. of Ingersoll-Rand
    d. Securitron, Div of Assa Abloy
    e. Security Door Controls

2.02 SCHEDULED HARDWARE

A. Requirements for each type of finish hardware are indicated on the "Door Schedule", and in the Schedule at the end of this Section. Products are identified by using hardware designation numbers of the following:

1. Manufacturer's Product Designations: The product designation and name of one manufacturer are listed for each hardware type required for the purpose of establishing minimum requirements. Manufacturer and model numbers indicated in Hardware Sets constitute a "Basis-of-Design" product specification as defined in Section 08710.

2.03 MATERIALS AND FABRICATION

A. Manufacturer's Name Plate: Do not use manufacturers' products that have manufacturer's name or trade name displayed in a visible location (omit removable nameplates) except in conjunction with required fire-rated labels and as otherwise acceptable to Architect.

1. Manufacturer's identification will be permitted on rim of lock cylinders only.

B. Base Metals: Product hardware units of basic metal and forming methods indicated, using manufacturer's standard metal alloy, composition, temper, and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units by applicable ANSI/BHMA A156 series standards for each type of hardware item and with ANSI/BHMA A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.

C. Fasteners: Provide hardware manufactured to conform to published templates generally prepared for machine screw installation. Do not provide hardware that has been prepared for self-tapping sheet metal screws, except as specifically indicated.

D. Furnish screws for installation with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finish of this other work as closely as possible including "prepared for paint" surfaces to receive painted.

E. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent no standard units of type specified area available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless their use is the only means of reinforcing the work adequately to fasten the hardware securely. Where thru-bolts are used as a means of reinforcing the work, provide sleeves for each thru-bolt or use sex screw fasteners.

2.04 HINGES, BUTTS, AND CONTINUOUS HINGES

A. Templates: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.

B. Screws: Provide Phillips flat-head screws complying with the following requirements:

1. For metal doors and frames install machine screws into drilled and tapped holes.
2. For wood doors and frames install wood screws.
3. For fire-rated wood doors install #12 x ¼ inch, threaded-to-the-head steel wood screws.
4. Finish screw heads to match surface of hinges or pivots.

C. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:

1. Out-Swing Exterior Doors: Non-removable pins.
2. Interior Doors: Non-rising pins.
3. All “Card Reader Doors”: Non-removable pins.

D. Number of Hinges: Provide number of hinges indicated but not less than 3 hinges per door leaf for doors 90 inches of additional height.

1. Fire-Rated Doors: Not less than 3 hinges per door leaf for doors 86 inches or less in height with same rule for additional hinges.

E. Size and weight of butts:

1. See Hardware Headings for Details

F. Power Transfer Hinges

1. Furnish all power transfer hinges as 8 conductor units.

2.05 LOCK CYLINDERS AND KEYING

A. Review the keying system with the Owner and provide the type required (grandmaster or great-grandmaster), integrated with Owner’s existing system.

B. Equip locks with “MEDECO” special 7-pin tumbler “interchangeable core” cylinders. Such cylinders have cores that are removable by the use of a special “control key”. Deliver hardware to the contractor with temporary cores installed and keyed alike. Permanent cores are to be mastered keyed as directed by the owner. Deliver permanent cores and keys to the owner when notified by the owner in writing. Temporary cores and keys are to be returned to the hardware supplier by the contractor within 10 days of their replacement by permanent cores.

C. **Medeco Cylinders to be purchased from "Calvert Safe & Lock Limited"**, (1-203) 735-2137

D. Metals: Construct lock cylinder parts from brass or bronze, stainless steel, or nickel silver.

E. Comply with Owner's instructions for masterkeying and, except as otherwise indicated, provide individual change key for each lock that is not designated to be keyed alike with a group of related locks.

F. Key Material: Provide keys of nickel silver only.

G. Key Quantity: Furnish 3 change keys for each lock, 5 master keys for each master system, and 5 grandmaster keys for each grandmaster system. Furnish 12 construction masterkeys. Furnish 6 "Control Keys".

1. Deliver keys to Owner.

2.06 KEY CONTROL SYSTEM

A. Provide a key control system including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150 percent of the number of locks required for the Project.

1. Provide complete cross-index system set up by key control manufacturer, and place keys on markers and hooks in the cabinet as determined by the final key schedule.
2. Provide hinged-panel type cabinet for wall mounting.

2.07 LOCKS, LATCHES, AND BOLTS

A. Strikes: Provide manufacturer's standard wrought box strike for each latch or lock bolt, with curved lip extended to protect frame, finished to match hardware set, unless otherwise indicated.

1. Provide flat lip strikes for locks with 3 piece, anti-friction latchbolts as recommended by manufacturer.
2. Provide recess type top strikes for bolts locking into head frames, unless otherwise indicated.
3. Provide dust-proof strikes for foot bolts, except where special threshold construction provides non-recessed strike for bolt.
4. Provide roller type strikes where recommended by manufacturer of the latch and lock units.
5. Electrified locks, wherever possible, shall be "fail secure". Specified hardware must always allow exiting in the path of exiting travel form the secured room. Where "fail safe" doors are required to comply with life safety exiting code, insure that the fire alarm specifications call for an appropriate relay to kill power between the lock power supply and the electrified lock so that it must go to and unlocked condition.

B. Mortise Locks

1. Mortise locks shall be certified as ANSI A156.13, Grade 1 Operational, Grade 1 Security, and shall be manufactured from heavy gauge steel, containing components of steel with

zinc dichromate plating for corrosion resistance. Lock case shall be multi-function and field reversible for handling.

2. Locks are to have a standard 2-3/4" backset with a full ¾" throw 2-piece stainless steel mechanical anti-friction latch-bolt. Deadbolt shall be a full 1" throw, constructed of stainless steel.
3. Lever trim shall be solid brass, bronze, or stainless steel, cast or forged in the design specified, with wrought roses and external Security requirement. Levers shall be thru-bolted to assure proper alignment, and shall have a 2-piece spindle. Lever trim on the secure side of doors serving rooms considered by the authority having jurisdiction to be hazardous shall have a tactile warning.

C. Exit Devices

1. Exit devices shall be touchpad type, fabricated of brass, bronze, stainless steel, or aluminum, plated to the standard architectural finishes to match the balance of the door hardware.
2. All exit devices shall incorporate a fluid damper or other device, which eliminates noise associated with exit device operation. Touchpad shall extend a minimum of one half of the door width. End-cap will have two-point attachment to door. Only compression springs will be used in devices, latches, and outside trims or controls.
3. All devices to incorporate a security deadlatching feature.
4. Provide roller strikes for all rim and surface mounted vertical rod devices, ASA strikes for mortise devices, and manufacturer's standard strikes for concealed vertical rod devices.
5. Mechanism case shall sit flush on the face of all flush doors, or spacers shall be furnished to fill gaps behind devices. Where glass trims or molding projects off the face of the door, provide glass bead kits.
6. All non-fire-rated exit devices shall have cylinder dogging, except at "Electric Latch Retraction or Pull Back" and "Request to Exit" options.
7. Removable mullions shall be a steel tube, except at aluminum entrances, mullions to be aluminum. Where scheduled, mullion shall be of a type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
8. Where lever handles are specified as outside trim for exit devices, provide heavy-duty lever trims with forged or cast escutcheon plates. Where scheduled, provide vandal-resistant levers that can easily be re-setting. Lever style will match the lever style of the locksets.
9. Exit devices shall be UL listed panic exit hardware. All exit devices for fire rated openings shall be UL labeled fire exit hardware.
10. Provide electrical options as scheduled.

    a. Lock Power Supplies: It is imperative that the security contractor and hardware supplier coordinate the lock voltage requirements, fail safe/fail secure requirements, lock in-rush current requirements, whether locks are continuous duty or not and any other related issues. Power supplies to be furnished by Door Hardware Suppliers and installed by the Security or Electrical Contractor.
    b. Furnish all power transfer hinges as 8 conductor units.

D. Where notation for knurling appears on door schedule, provide knurled outside lever.

2.08 CLOSERS AND DOOR CONTROL DEVICES

A. Size of Units: Except as otherwise specifically indicated, comply with the manufacturer's recommendations for size of door control unit depending on size of door, exposure to weather, and anticipated frequency of use.

1. Where parallel arms are indicated for closers, provide closer with Heavy Duty Arm.
2. Provide parallel arms for all overhead closers, except as otherwise indicated.
3. Closers must operate at 180 degree opening where indicated on plans.

B. Access-Free Manual Closers: Where manual closers are indicated for doors required to be accessible to the physically handicapped, provide adjustable units complying with ANSI A117.1 provisions for door opening force and closing speed.

2.09 DOOR STOPS AND HOLDERS

A. It shall be the responsibility of the hardware supplier to a provide door stop for all doors in accordance with the following requirements.

1. Wall stops shall be used wherever possible.
2. Where wall stops cannot be used, provide dome type floor stops of the proper height.
3. At any opening where a wall or floor stop cannot be used, a heavy-duty overhead stop must be used.

2.10 DOOR TRIM UNITS

A. Fasteners: Provide manufacturer's standard exposed fasteners for door trim units consisting of either machine screws or self-tapping screws.

B. Fabricate protection plates not more than 1-1/2 inches less than door width on hinge side and not more than ½ inch less than door width on pull side by height indicated.

1. Metal Plates: Stainless steel, 0.050 inch (U.S. 18 gage).

2.11 THRESHOLDS, WEATHER-STRIPPING, SOUND STRIPPING AND SEALS

A. Furnish as scheduled and per architectural details. Match finish of other items as closely as possible. Provide only those units where resilient or flexible seal strip is easily replaceable and readily available.

2.12 ELECTRONIC MORTISE ACCESS CONTROL (CM) LOCKING DEVICE

A. Lock shall be mortise type with 3-piece, beveled, stainless steel latchbolts with ¾" throw and equipped with anti-friction latch. Chassis shall accommodate ANSI standard mortise lock prep with a 2¾" nominal backset for 1¾" doors as a standard, with 1 3/8" to 2 ¾" thick doors in 1/8 inch increments available. Locksets shall be provided from the factory with the appropriate handing.

B. Outside and inside levers shall operate independently of each other. Lock shall use patented, clutch mechanism to deter vandalism and maximize durability. Disablement of secured levers shall not permit latchbolt retraction from secure side while allowing emergency egress. The Schlage 06 style lever.

C. Escutcheons and levers will be supplied with Satin Chrome – 626 finish.

D. The lock will be furnished with the following functions: Classroom / Storeroom

E. Emergency mechanical key override utilizes Schlage Everest 1 ¼" mortise cylinder with standard straight cam, provided as standard, available with "less cylinder" option. Furnish optional "Audit Trail Key", ATK, and feature for mechanical key usage to be signaled and recorded into the audit event database.

F. Locks for exterior applications shall be furnished with an outside escutcheon gasket to resist intrusion of dust, weather and foreign materials. Recommended for environmentally controlled interior doors and exterior doors, with environmentally controlled interior and uncontrolled exterior doors.

G. Electrical operation shall be battery operated, capable of 80,000 operating cycles using non-proprietary four "AA" alkaline batteries. Lock shall be capable of operation for exterior applications, at temperatures of 4 degrees F to 131 degrees F, at relative humidity of 0-85%, continuous, non-condensing. Lock shall be resistant to radio frequency and electro-static discharge.

H. CM5100 x 06 - by "LOCKNETICS" – NO SUBSTITUTION. See Hardware Headings for specific functions.

I. **Furnish necessary Software required to upgrade existing Locknetics Software Version 5.0 to latest available Version of the LockLink Software. Coordinate this process with "Locknetics" Representative and the Air National Guard**.

2.13 HARDWARE FINISHES

A. Match items to the manufacturer's standard color and texture finish for the latch and lock sets (or push-pull units if not latch or lock sets).

B. 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.

C. The designations used in schedules and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18, "Materials and Finishes", including coordination with the traditional U.S. finishes show by certain manufacturers for their products.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Prior to installation of any hardware, examine all doors, frames, walls and related items for conditions that would prevent proper installation of finish hardware. Correct all defects prior to proceeding with installation.

3.02 INSTALLATION

A. A pre-installation meeting shall be held to instruct installers on proper installation and adjustment of finish hardware Representative of each major hardware category shall be present if requested.

B. All hardware to be installed by qualified tradesmen, skilled in the application of commercial grade hardware. For technical assistance if necessary, installers may contact the manufacturer's rep for the item in question, as listed in the hardware schedule.

C. Electronic hardware shall be furnished and installed by qualified tradesmen, but shall be wired by the security system contractor. Door Hardware installer shall be present to complete final adjustments to door hardware, when security contractor completes electrical terminations.

D. Mount hardware units at heights indicated in "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.

E. Install each hardware item in compliance with the manufacturer's instructions and recommendations, using only the fasteners provided by the manufacturer.

F. Do not install surface mounted items until finishes have been completed on the substrate. Protect all installed hardware during painting.

G. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

H. All operating parts shall move freely and smoothly without binding, sticking, or excessive clearance.

3.03 ADJUSTING, CLEANING, AND DEMONSTRATING

A. Adjust and check each operating item of hardware and each door, to insure proper operation or function of every unit. Replace units, which cannot be adjusted to operate freely and smoothly.

B. Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make a final check and adjustment of all hardware items in such space or area. Clean operating doors. Adjust door control devices to compensate for final operation of hearing and ventilating equipment.

C. Clean adjacent surfaces soiled by hardware installation.

D. Instruct Owner's personnel in the proper adjustment, lubrications, and maintenance of door hardware and hardware finishes.

E. At the completion of "BALANCING" of all "AIR HANDLING SYSTEMS", prior to owner taking occupancy, 'Hardware Installer" will re-adjust all closer closing and latching cycles.

3.04 FIELD QUALITY CONTROL

A. Prior to Substantial Completion, the installer, accompanied by representatives of the manufacturers of latchsets and locksets, door control devices, and of other major hardware suppliers, shall perform the following work.

B. Examine and re-adjust each item of door hardware as necessary to restore function of doors and hardware to comply with specified requirements.

C. Consult with and instruct Owner's personnel in recommended additions to the maintenance procedures.

D. Replace hardware items that have deteriorated or failed due to faulty design, materials, or installation of hardware units.

E. Prepare a written report of current and predictable problems of substantial nature in the performance of the hardware.

3.05 PROTECTION

A. Provide for the proper protection of all items of hardware until the Owner accepts the project as complete. Damaged or disfigured hardware shall be replaced or repaired by the responsible party.

3.06 HARDWARE SCHEDULE

A. General: Provide hardware for each door to comply with requirements of Section 08710 "Door Hardware, Door Schedule Section 08710DS", and the following Hardware Sets. The finish hardware sets listed herein shall not be considered as a complete hardware schedule and shall only be considered as an indication of the hardware requirements desired by the Owner. It shall be this Contractor's responsibility to visit the site, examine the drawings and door schedule and provide all necessary hardware as shown. Such items shall be of same quality, quantity and type as that scheduled for similar doors or parts of the building used for similar purposes.

B. As part of the submittal process, the Contractor and/or Door, Frame, and Hardware Suppliers must inspect all existing doors and frames to confirm that the new hardware will work with existing conditions, and if necessary, Door, Frame, and Hardware Suppliers shall advise the contractor of modifications that must be made to existing doors and frames to accommodate new hardware. The Contractor is responsible for making all such modifications.

Hardware Set 001

1	Hinge, Continuous Geared	780 - 112 HD - 85" - POWDER COAT FINISH" - Concealed	Roton
1	Hinge, Continuous Geared	780 - 112 HD - 85" - POWDER COAT FINISH" - Concealed Leaf x ETW-8	Roton
1	Exit Device, V.R., Concealed	ED5800 x EO x 630 x LHR	Corbin-Russwin
1	Exit Device, V.R., Conc.-Keyed	ED5800 x N957 x 630 x RHR x M94 (Latch Pull, 24VDC)	Corbin-Russwin
1	Cylinder, Rim	Medeco Rim Cylinder	Medeco
2	Closer, Overhead Parallel	CLP-7500 x POWDER COAT FINISH (Heavy Duty Arm) & (Positive Stop 85 to 110 Degrees)	Norton
1	Power Supply	781 (Controller for Latch Pull) - Regulated and Filtered	Corbin-Russwin
1	Card Reader/Pin Access	Card Reader / Pin Access - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
2	Door Contact	Door Contact by Others	By Others
2	Meeting Stile	Meeting Stile - Aluminum Door Supplier Standard	Section 08410
1	Weatherstrip	Weatherstripping - Aluminum Door Supplier Standard	Section 08410
2	Door Bottom Sweep	Door Bottom Sweep - Aluminum Door Supplier Standard	Section 08410
1	Threshold	195A x 228A* (* By Full Depth of Frame + 1/2") x 195A x 72"	Pemko
1	Diagrams	Diagrams - Elevation and Riser	Corbin-Russwin
1	Diagrams	Diagrams - Point To Point	Corbin-Russwin

Hardware Set 002

2	Hinge, Continuous Geared	780 - 112 HD - 85" - POWDER COAT FINISH" - Concealed	Roton
1	Exit Device, V.R., Conc.-Keyed	ED5800 x N955 x 630 x LHR x M52 (CD)	Corbin-Russwin
1	Exit Device, V.R., Conc.-Keyed	ED5800 x N955 x 630 x RHR x M52 (CD)	Corbin-Russwin
2	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
2	Cylinder, Rim	Medeco Rim Cylinder	Medeco
2	Closer, Overhead Parallel	CLP-7500 x POWDER COAT FINISH (Heavy Duty Arm) & (Positive Stop 85 to 110 Degrees)	Norton
2	Meeting Stile	Meeting Stile - Aluminum Door Supplier Standard	Section 08410
1	Weatherstrip	Weatherstripping - Aluminum Door Supplier Standard	Section 08410
2	Door Bottom Sweep	Door Bottom Sweep - Aluminum Door Supplier Standard	Section 08410
1	Threshold	171A - 5" x 1/2" x 72"	Pemko

Hardware Set 003

2	Hinge, Continuous Geared	780 - 112 HD - 85" - POWDER COAT FINISH" - Concealed	Roton
1	Exit Device, V.R., Concealed	ED5800 x EO x 630 x LHR	Corbin-Russwin
1	Exit Device, V.R., Concealed	ED5800 x EO x 630 x RHR	Corbin-Russwin
2	Closer, Overhead Parallel	CLP-7500-H x "POWDER COAT FINISH" (Heavy Duty Hold Open Arm) & (Positive Stop 85 to 110 Degrees)	Norton
2	Meeting Stile	Meeting Stile - Aluminum Door Supplier Standard	Section 08410
1	Weatherstrip	Weatherstripping - Aluminum Door Supplier Standard	Section 08410
2	Door Bottom Sweep	Door Bottom Sweep - Aluminum Door Supplier Standard	Section 08410
1	Threshold	171A - 5" x 1/2" x 72"	Pemko

Hardware Set 004

1	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - Concealed Leaf x ETW-8	Roton
1	Exit Device, Rim - Keyed	ED5200 x x N957 x 630 x LHR x M94 (Latch Pull)	Corbin-Russwin
1	Cylinder, Rim	Medeco Rim Cylinder	Medeco
1	Closer, Overhead Parallel	CLP-7500 x AL (Heavy Duty Arm) & (Positive Stop 85 to 110 Degrees)	Norton
1	Power Supply	781 (Controller for Latch Pull) - Regulated and Filtered	Corbin-Russwin
1	Card Reader/Pin Access	Card Reader / Pin Access - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
1	Door Contact	Door Contact by Others	By Others
1	Weatherstrip	332CR - 36" x 86"	Pemko
1	Door Bottom Sweep	315CN x 36"	Pemko
1	Threshold	195A x 228A* (* By Full Depth of Frame + 1/2") x 195A x 36"	Pemko
1	Diagrams	Diagrams - Elevation and Riser	Corbin-Russwin
1	Diagrams	Diagrams - Point To Point	Corbin-Russwin

Hardware Set 005

1	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - Concealed Leaf x ETW-8	Roton
1	Exit Device, Rim - Keyed	ED5200 x x N957 x 630 x RHR x M94 (Latch Pull)	Corbin-Russwin
1	Cylinder, Rim	Medeco Rim Cylinder	Medeco
1	Closer, Overhead Parallel	CLP-7500 x AL (Heavy Duty Arm) & (Positive Stop 85 to 110 Degrees)	Norton
1	Power Supply	781 (Controller for Latch Pull) - Regulated and Filtered	Corbin-Russwin
1	Card Reader/Pin Access	Card Reader / Pin Access - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
1	Door Contact	Door Contact by Others	By Others
1	Weatherstrip	332CR - 36" x 86"	Pemko
1	Door Bottom Sweep	315CN x 36"	Pemko
1	Threshold	195A x 228A* (* By Full Depth of Frame + 1/2") x 195A x 36"	Pemko
1	Diagrams	Diagrams - Elevation and Riser	Corbin-Russwin
1	Diagrams	Diagrams - Point To Point	Corbin-Russwin

Hardware Set 006

1	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - Concealed Leaf	Roton
1	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - Concealed Leaf x ETW-8	Roton
1	Exit Device, V.R., Concealed	ED5800 x EO x 630 x LHR	Corbin-Russwin
1	Exit Device, V.R., Conc.-Keyed	ED5800 x N957 x 630 x RHR x M94 (Latch Pull, 24VDC)	Corbin-Russwin
1	Cylinder, Rim	Medeco Rim Cylinder	Medeco
2	Closer, Overhead Parallel	CLP-7500 x AL (Heavy Duty Arm) & (Positive Stop 85 to 110 Degrees)	Norton
1	Power Supply	781 (Controller for Latch Pull) - Regulated and Filtered	Corbin-Russwin
1	Card Reader/Pin Access	Card Reader / Pin Access - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
2	Door Contact	Door Contact by Others	By Others
2	Weatherstrip	29310CPK - 72" x 86"	Pemko
1	Weatherstrip	332CR - 72" x 86"	Pemko
2	Door Bottom Sweep	315CN x 36"	Pemko
1	Threshold	195A x 228A* (* By Full Depth of Frame + 1/2") x 195A x 72"	Pemko
1	Diagrams	Diagrams - Elevation and Riser	Corbin-Russwin
1	Diagrams	Diagrams - Point To Point	Corbin-Russwin

Hardware Set 007

1	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - Concealed Leaf x ETW-8	Roton
1	Electrically Unlocked	ML22905 x ECL-24VDC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Parallel	CLP-7500 x AL (Heavy Duty Arm) & (Positive Stop 85 to 110 Degrees)	Norton
1	Power Supply	781 (Controller for Latch Pull) - Regulated and Filtered	Corbin-Russwin
1	Card Reader/Pin Access	Card Reader / Pin Access - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
1	Door Contact	Door Contact by Others	By Others
1	Power Supply	MPS10 (For Digital Key Pad & Card Reader) - Regulated and Filtered, Provide Necessary Relays.	Folger Adams
1	Weatherstrip	332CR - 36" x 86"	Pemko
1	Door Bottom Sweep	315CN x 36"	Pemko
1	Threshold	195A x 228A* (* By Full Depth of Frame + 1/2") x 195A x 36"	Pemko
1	Diagrams	Diagrams - Elevation and Riser	Corbin-Russwin
1	Diagrams	Diagrams - Point To Point	Corbin-Russwin

Hardware Set 008

2	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - Concealed Leaf	Roton
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
2	Bolt, Flush	458 - B26D	H.B.Ives
1	Dust Proof Strike	487 - B26D / 489 - B26D	H.B.Ives
2	Stop, Overhead - Surf.	9-326 - Hold Open - [33-1/16" - 38' Dr] - 689	Rixson
1	Weatherstrip	332CR - 72" x 86"	Pemko
1	Astragal, Overlapping	357SP w/S88 x 86"	Pemko
2	Door Bottom Sweep	315CN x 36"	Pemko
1	Threshold	195A x 228A* (* By Full Depth of Frame + 1/2") x 195A x 72"	Pemko

Hardware Set 009

1	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - Concealed Leaf	Roton
1	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - Concealed Leaf x ETW-8 (LHR-ACTIVE LEAF)	Roton
1	Electrically Unlocked	ML22905 x ECL-24VDC x NSA x 626 x M17 (WSB) - (LHR - ACTIVE LEAF)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
2	Bolt, Flush	458 - B26D	H.B.Ives
1	Dust Proof Strike	487 - B26D / 489 - B26D	H.B.Ives
1	Closer, Overhead Parallel	CLP-7500-T-H x AL (Heavy Duty Arm & Hold Open Arm) & (Positive Stop 85 to 110 Degrees & Thumturn Hold Open)	Norton
1	Stop, Overhead - Surf.	9-326 - Hold Open - [33-1/16" - 38" Dr] - 689 @ RHR-ACTIVE LEAF	Rixson
1	Power Supply	781 (Controller for Latch Pull) - Regulated and Filtered	Corbin-Russwin
1	Card Reader/Pin Access	Card Reader / Pin Access - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
2	Door Contact	Door Contact by Others	By Others
1	Power Supply	MPS10 (For Digital Key Pad & Card Reader) - Regulated and Filtered, Provide Necessary Relays.	Folger Adams
1	Weatherstrip	332CR - 72" x 86"	Pemko
1	Astragal, Overlapping	357SP w/S88 x 86"	Pemko
2	Door Bottom Sweep	315CN x 36"	Pemko
1	Threshold	195A x 228A* (* By Full Depth of Frame + 1/2") x 195A x 72"	Pemko
1	Diagrams	Diagrams - Elevation and Riser	Corbin-Russwin
1	Diagrams	Diagrams - Point To Point	Corbin-Russwin

Hardware Set 010

1	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - Concealed Leaf	Roton
1	Exit Device, Rim - Keyed	ED5200 x N957 x 630 x LHR < Storeroom Function Required	Corbin-Russwin
1	Cylinder, Rim	Medeco Rim Cylinder	Medeco
2	Closer, Overhead Parallel	CLP-7500-H x AL (Heavy Duty Hold Open Arm) & (Positive Stop 85 to 110 Degrees)	Norton
1	Weatherstrip	332CR - 36" x 86"	Pemko
1	Door Bottom Sweep	315CN x 36"	Pemko
1	Threshold	2548A x 8" x 1/2" x 36"	Pemko

Hardware Set 011

2	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - Concealed Leaf	Roton
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB) - M21 (KLO)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
2	Bolt, Flush	458 - B26D	H.B.Ives
1	Dust Proof Strike	487 - B26D / 489 - B26D	H.B.Ives
1	Closer, Overhead Parallel	CLP-7500-H x AL (Heavy Duty Hold Open Arm) & (Positive Stop 85 to 110 Degrees)	Norton
1	Stop, Overhead - Surf.	9-326 - Hold Open - [33-1/16" - 38" Dr] - 689 @ LHR INACTIVE LEAF	Rixson
1	Weatherstrip	332CR - 72" x 86"	Pemko

1	Astragal, Overlapping	357SP w/S88 x 86"	Pemko
2	Door Bottom Sweep	315CN x 36"	Pemko
1	Threshold	2548A x 8" x 1/2" x 72"	Pemko

Hardware Set 012

2	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - Concealed Leaf	Roton
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB) - M21 (KLO)	Corbin-Russwin
1	Cylinder, Rim	Medeco Rim Cylinder	Medeco
2	Bolt, Flush	458 - B26D	H.B.Ives
1	Dust Proof Strike	487 - B26D / 489 - B26D	H.B.Ives
2	Stop, Overhead - Surf.	9-326 - Hold Open - [33-1/16" - 38' Dr] - 689	Rixson
1	Weatherstrip	332CR - 72" x 86"	Pemko
1	Astragal, Overlapping	357SP w/S88 x 86"	Pemko
2	Door Bottom Sweep	315CN x 36"	Pemko
1	Threshold	2548A x 8" x 1/2" x 72"	Pemko

Hardware Set 013

1	Cylinder	Medeco Cylinder - Verify Type Required with Door Supplier	Medeco

Hardware Set 101

2	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Hinge, Ball Bearing	BB1279 - ETW8 - 4.5 x 4.5 - US26D	Hager
1	Electrically Unlocked	ML22905 x ECL-24VDC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Regular	7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Floor	436 - B26D	H.B.Ives
1	Power Supply	781 (Controller for Latch Pull) - Regulated and Filtered	Corbin-Russwin
1	Card Reader/Pin Access	Card Reader / Pin Access - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
1	Door Contact	Door Contact by Others	By Others
1	Power Supply	MPS10 (For Digital Key Pad & Card Reader) - Regulated and Filtered, Provide Necessary Relays.	Folger Adams
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives
1	Diagrams	Diagrams - Elevation and Riser	Corbin-Russwin
1	Diagrams	Diagrams - Point To Point	Corbin-Russwin

Hardware Set 102

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D - NRP	Hager
1	Electro-Mechanical Lock	CM1596 x PXK x 06 x LC x 626 x ATK	Locknetics
1	Cylinder, Mortise	1-1/4" x Medeco Cylinder x Standard Cam	Medeco
1	Closer, Overhead Parallel	PR7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 103

1	Hinge, Continuous Geared	780 - 112 HD - 85" - CLEAR - U/L-FF - Concealed Leaf x	Roton
1	Exit Device, Rim - Keyed	ED5200A x x N957 x 630 x LHR x M94 (Latch Pull)	Corbin-Russwin
1	Cylinder, Rim	Medeco Rim Cylinder	Medeco
1	Closer, Overhead Parallel	PR7500 x AL	Norton
1	Stop, Wall	407 - S32D	H.B.Ives
1	Power Supply	781 (Controller for Latch Pull) - Regulated and Filtered	Corbin-Russwin
1	Card Reader/Pin Access	Card Reader / Pin Access - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
1	Door Contact	Door Contact by Others	By Others
1	Weatherstrip	332CR - 36" x 86"	Pemko
1	Door Bottom Sweep	315CN x 36"	Pemko
1	Threshold	195A x 228A* (* By Full Depth of Frame + 1/2") x 195A x 36"	Pemko
1	Diagrams	Diagrams - Elevation and Riser	Corbin-Russwin
1	Diagrams	Diagrams - Point To Point	Corbin-Russwin

Hardware Set 104

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D - NRP	Hager
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Electric Strike	712 x 24VDC	Folger Adams
1	Closer, Overhead Parallel	PR7500 x AL	Norton
1	Stop, Wall	407 - S32D	H.B.Ives
1	BIO READER	Bio Reader - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
1	Key Pad	Key Pad - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
1	Power Supply	510 - EIR x SBP-2 x 24VDC	Locknetics
1	Electro-Magnetic Shear Lock	GF3000 - MBS - 24VDC	Locknetics
2	Sound Gasketing	S88D - 18' (Sound Gasketing - [2 Ea. Required])	Pemko
1	Door Bottom - Automatic	434APKL x 36" (Sound Seal) - (Recessed)	Pemko
1	Threshold	158A - 4" x 1/2" x 36"	Pemko

Hardware Set 105

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D - NRP	Hager
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Electric Strike	712 x 24VDC	Folger Adams
1	Closer, Overhead Parallel	PR7500 x AL	Norton
1	Stop, Wall	407 - S32D	H.B.Ives
1	BIO READER	Bio Reader - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
1	Key Pad	Key Pad - to be supplied by SECTION 16800 (Team A.V.S)	SECTION 16800
1	Power Supply	510 - EIR x SBP-2 x 24VDC	Locknetics
1	Door Contact	Door Contact by Others	By Others
1	Electro-Magnetic Shear Lock	GF3000 - MBS - 24VDC	Locknetics
2	Sound Gasketing	S88D - 18' (Sound Gasketing - [2 Ea. Required])	Pemko
1	Door Bottom - Automatic	434APKL x 36" (Sound Seal) - (Recessed)	Pemko
1	Threshold	158A - 4" x 1/2" x 36"	Pemko

Hardware Set 106

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Electro-Mechanical Lock	CM1596 x PXK x 06 x LC x 626 x ATK	Locknetics
1	Cylinder, Mortise	1-1/4" x Medeco Cylinder x Standard Cam	Medeco
1	Closer, Overhead Regular	7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Floor	436 - B26D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 107

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D - NRP	Hager
1	Electro-Mechanical Lock	CM1596 x PXK x 06 x LC x 626 x ATK	Locknetics
1	Cylinder, Mortise	1-1/4" x Medeco Cylinder x Standard Cam	Medeco
1	Closer, Overhead Parallel	PR7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 108

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D - NRP	Hager
1	Electro-Mechanical Lock	CM1596 x KPI x 06 x LC x 626 x ATK	Locknetics
1	Cylinder, Mortise	1-1/4" x Medeco Cylinder x Standard Cam	Medeco
1	Closer, Overhead Parallel	PR7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 109

6	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Electro-Mechanical Lock	CM1596 x KPI x 06 x LC x 626 x ATK	Locknetics
1	Cylinder, Mortise	1-1/4" x Medeco Cylinder x Standard Cam	Medeco
2	Bolts, Flush - Automatic	559 - B26D - (HM Doors)	H.B.Ives
1	Dust Proof Strike	487 - B26D / 489 - B26D	H.B.Ives
1	Coordinator, Door	900 - 72" - FP	H.B.Ives
2	Closer, Overhead Regular	7500 x AL	Norton
2	Stop, Floor	436 - B26D	H.B.Ives
1	Astragal, Overlapping	357SP w/S88 x 86"	Pemko
2	Smoke Gasketing	S88D - 21' (Smoke Gasketing)	Pemko

Hardware Set 201

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D - NRP	Hager
1	Exit Device, Rim - Keyed	ED5200 x N955 x 630 x RHR x M52 (CD)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Cylinder, Rim	Medeco Rim Cylinder	Medeco
1	Closer, Overhead Parallel	PR7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 202

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D - NRP	Hager
1	Exit Device, Rim - Keyed	ED5200 x N955 x 630 x RHR x M52 (CD)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Cylinder, Rim	Medeco Rim Cylinder	Medeco
1	Closer, Overhead Parallel	PR7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 203

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Exit Device, Rim	ED5200 x N910 x 630 x RHR	Corbin-Russwin
1	Closer, Overhead Parallel	PR7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 204

6	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D - NRP	Hager
1	Exit Device, V.R., Conc.-Keyed	ED5800 x N955 x 630 x LHR x M52 (CD)	Corbin-Russwin
1	Exit Device, V.R., Conc.-Keyed	ED5800 x N955 x 630 x RHR x M52 (CD)	Corbin-Russwin
2	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
2	Cylinder, Rim	Medeco Rim Cylinder	Medeco
2	Closer, Overhead Parallel	CLP-7500 x AL x DA (Heavy Duty Arm) & (Positive Stop 85 to 110 Degrees)	Norton
1	Threshold	2548A x 8" x 1/2" x 72"	Pemko
2	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 205

6	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Exit Device, V.R., Concealed	ED5800 x N910 x 630 x LHR x M55 (LBR)	Corbin-Russwin
1	Exit Device, V.R., Concealed	ED5800 x N910 x 630 x RHR x M55 (LBR)	Corbin-Russwin
2	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
2	Cylinder, Rim	Medeco Rim Cylinder	Medeco
2	Closer, Overhead Parallel	CLP-7500-H x AL (Heavy Duty Hold Open Arm) & (Positive Stop 85 to 110 Degrees)	Norton
1	Threshold	2548A x 8" x 1/2" x 72"	Pemko
2	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 300

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Stop, Floor	438 - B26D	H.B.Ives
2	Sound Gasketing	S88D - 18' (Sound Gasketing - [2 Ea. Required])	Pemko
1	Door Bottom - Automatic	434APKL x 36" (Sound Seal) - (Recessed)	Pemko
1	Threshold	151A x 3" x 1/4" x 36"	Pemko

Hardware Set 301

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Stop, Floor	438 - B26D	H.B.Ives
2	Sound Gasketing	S88D - 18' (Sound Gasketing - [2 Ea. Required])	Pemko
1	Door Bottom - Automatic	434APKL x 36" (Sound Seal) - (Recessed)	Pemko
1	Threshold	151A x 3" x 1/4" x 36"	Pemko

Hardware Set 302

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D - NRP	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Stop, Floor	438 - B26D	H.B.Ives
2	Sound Gasketing	S88D - 18' (Sound Gasketing - [2 Ea. Required])	Pemko
1	Door Bottom - Automatic	434APKL x 36" (Sound Seal) - (Recessed)	Pemko
1	Threshold	151A x 3" x 1/4" x 36"	Pemko

Hardware Set 303

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Stop, Floor	436 - B26D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 304

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Stop & Holder, Floor	FS496 x US26D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 305

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D - NRP	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Stop, Overhead - Surf.	9-326 - Hold Open - [33-1/16" - 38' Dr] - 689	Rixson
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 306

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D - NRP	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 307

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 308

3	Hinge, Ball Bearing	BB1168 - 5.0 x 4.5 - US26D	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Regular	7500 x AL	Norton
1	Kick Plate	16" x 40" - 18 ga. - US32D	Rockwood
1	Stop, Floor	436 - B26D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 309

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Regular	7500 x AL	Norton
1	Kick Plate	16" x 40" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 310

6	Hinge, Ball Bearing	BB1191 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
2	Bolts, Flush - Self Latching	357 - B26D - (HM Doors)	H.B.Ives
1	Dust Proof Strike	487 - B26D / 489 - B26D	H.B.Ives
1	Coordinator, Door	900 - 72" - FP, w/Closer Mounting Brackets	H.B.Ives
2	Closer, Overhead Parallel	CLP-7500-H x AL (Heavy Duty Hold Open Arm) & (Positive Stop 85 to 110 Degrees) < Install "PUSH" Side >	Norton
1	Astragal, Overlapping	357SP x 86"	Pemko
2	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 311

6	Hinge, Ball Bearing	BB1191 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Entrance/Office	ML2051 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
2	Bolts, Flush - Self Latching	357 - B26D - (HM Doors)	H.B.Ives
1	Dust Proof Strike	487 - B26D / 489 - B26D	H.B.Ives
1	Coordinator, Door	900 - 72" - FP, w/Closer Mounting Brackets	H.B.Ives
2	Closer, Overhead Regular	7500 x AL	Norton
1	Astragal, Overlapping	357SP x 86"	Pemko
2	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 401

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Classroom	ML2055 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Regular	7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Floor	438 - B26D	H.B.Ives
2	Sound Gasketing	S88D - 18' (Sound Gasketing - [2 Ea. Required])	Pemko
1	Door Bottom - Automatic	434APKL x 36" (Sound Seal) - (Recessed)	Pemko
1	Threshold	151A x 3" x 1/4" x 36"	Pemko

Hardware Set 402

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Classroom	ML2055 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Regular	7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
2	Sound Gasketing	S88D - 18' (Sound Gasketing - [2 Ea. Required])	Pemko
1	Door Bottom - Automatic	434APKL x 36" (Sound Seal) - (Recessed)	Pemko
1	Threshold	151A x 3" x 1/4" x 36"	Pemko

Hardware Set 403

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Classroom	ML2055 - LC x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Parallel	PR7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
2	Sound Gasketing	S88D - 18' (Sound Gasketing - [2 Ea. Required])	Pemko
1	Door Bottom - Automatic	434APKL x 36" (Sound Seal) - (Recessed)	Pemko
1	Threshold	151A x 3" x 1/4" x 36"	Pemko

Hardware Set 501

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB) - M21 (KLO)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Stop, Overhead - Surf.	9-326 - Hold Open - [33-1/16" - 38' Dr] - 689	Rixson
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 502

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB) - M21 (KLO)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 503

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB) - M21 (KLO)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Parallel	CLP-7500-H x AL (Heavy Duty Hold Open Arm) & (Positive Stop 85 to 110 Degrees)	Norton
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 504

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB) - M21 (KLO)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Regular	7500 x AL	Norton
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 505

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB) - M21 (KLO)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Regular	7500 x AL	Norton
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 506

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB) - M21 (KLO)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Regular	7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 507

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB) - M21 (KLO)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
1	Closer, Overhead Regular	7500 x AL x SN (Sex Bolt)	Norton
1	Stop, Wall	407 - S32D	H.B.Ives
1	Smoke Gasketing	S88D - 17' (Smoke Gasketing - Wood Door & HM Frame)	Pemko

Hardware Set 508

6	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB) - M21 (KLO)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
2	Bolts, Flush - Self Latching	356 - B26D - (WD Doors)	H.B.Ives
1	Dust Proof Strike	487 - B26D / 489 - B26D	H.B.Ives
1	Astragal, Overlapping	357SP w/S88 x 86"	Pemko
1	Smoke Gasketing	S88D - 21' (Smoke Gasketing - Wood Door & HM Frame)	Pemko

Hardware Set 509

6	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Storeroom/Closet	ML2057 - LC x NSA x 626 x M17 (WSB) - M21 (KLO)	Corbin-Russwin
1	Cylinder, Mortise	Medeco Mortise Cylinder	Medeco
2	Bolts, Flush - Self Latching	357 - B26D - (HM Doors)	H.B.Ives
1	Dust Proof Strike	487 - B26D / 489 - B26D	H.B.Ives
1	Coordinator, Door	900 - 72" - FP, w/Closer Mounting Brackets	H.B.Ives
2	Closer, Overhead Parallel	CLP-7500-H x AL (Heavy Duty Hold Open Arm) & (Positive Stop 85 to 110 Degrees)	Norton
1	Astragal, Overlapping	357SP x 86"	Pemko
2	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 601

6	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Latchset, Passage	ML2010 x NSA x 626 x M17 (WSB)	Corbin-Russwin
2	Bolt, Flush	458 - B26D	H.B.Ives
1	Dust Proof Strike	487 - B26D / 489 - B26D	H.B.Ives
2	Stop, Floor	436 - B26D	H.B.Ives
2	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 602

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Latchset, Passage	ML2010 x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Stop, Floor	436 - B26D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 603

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Latchset, Passage	ML2010 x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Closer, Overhead Regular	7500 x AL	Norton
1	Stop, Wall	407 - S32D	H.B.Ives
1	Smoke Gasketing	S88D - 18' (Smoke Gasketing - Wood Door & HM Frame)	Pemko

Hardware Set 604

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Latchset, Passage	ML2010 x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Closer, Overhead Regular	7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
1	Smoke Gasketing	S88D - 18' (Smoke Gasketing - Wood Door & HM Frame)	Pemko

Hardware Set 701

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Privacy	ML2030 x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Mop Plate	04" x 35" - 18 ga. - US32D (Pull Side of Door)	Rockwood
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 702

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Lockset, Privacy	ML2030 x NSA x 626 x M17 (WSB)	Corbin-Russwin
1	Mop Plate	04" x 35" - 18 ga. - US32D (Pull Side of Door)	Rockwood
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 801

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Push Plate	70C - (4" x 16") - US32D	Rockwood
1	Pull Plate	BF-107 - 70C - (4" x 16") - US32D	Rockwood
1	Closer, Overhead Regular	7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Floor	436 - B26D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 802

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Push Plate	70C - (4" x 16") - US32D	Rockwood
1	Pull Plate	BF-107 - 70C - (4" x 16") - US32D	Rockwood
1	Closer, Overhead Regular	7500 x AL	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 803

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Push Plate	70C - (4" x 16") - US32D	Rockwood
1	Pull Plate	BF-107 - 70C - (4" x 16") - US32D	Rockwood
1	Closer, Overhead Parallel	PR7500 x AL x DA	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 804

3	Hinge, Ball Bearing	BB1279 - 4.5 x 4.5 - US26D	Hager
1	Push Plate	70C - (4" x 16") - US32D	Rockwood
1	Pull Plate	BF-107 - 70C - (4" x 16") - US32D	Rockwood
1	Closer, Overhead Regular	7500 x AL x DA	Norton
1	Kick Plate	16" x 34" - 18 ga. - US32D	Rockwood
1	Stop, Wall	407 - S32D	H.B.Ives
3	Silencer, HM Dr. Frame	20R - Gray	H.B.Ives

Hardware Set 901

Heading Notes
HARDWARE BY MILLWORK SUPPLIER

Hardware Set 902

Heading Notes
VAULT DOOR & HARDWARE BY "A.N.G.", to be Installed by "General Contractor"

END OF SECTION 08710