

SECTION 087100
DOOR HARDWARE

PART 1 - GENERAL

1.01 WORK INCLUDED

The work in this section shall include the furnishing of all items of door hardware as hereinafter specified, or obviously necessary to complete the building, except those items which are specifically excluded from this section of the specification.

1.02 DESCRIPTION OF WORK

Door Hardware - Hardware used in building construction but particularly that used on or in connection with doors and frames, cabinets and other movable members. It also has a finished appearance as well as functional purpose and may be considered as a part of the decorative treatment of a room or building.

1.03 RELATED WORK

- A. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 1 of these specifications.
- B. Related Sections:
 - Section 081000 - Steel Doors and Frames
 - Section 081000 – Standard Steel Frames
 - Section 082100 – Flush Wood Doors
 - Section 083300 - Coiling Doors and Grilles

1.04 COORDINATION

- A. Schedule coordination meeting to clarify sub-contractor and supplier requirements to provide a complete and functioning access control system.

1.05 QUALITY ASSURANCE

- A. Hardware has been specified herein by manufacturer's name, brand and catalog numbers for the purpose of establishing a basis for quality, finish, design and operational function. To insure a uniform basis of acceptable material, it is the intention that only manufacturer's items specified as "Acceptable and Approved" be furnished for use on this project. Obtain each type of hardware (latch and lock sets, hinges, exit devices closers) from single manufacturer, although several may be indicated as offering products complying with requirements.

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- B. *Substitutions:* Request for substitutions of items of hardware not listed as "Acceptable and Approved" shall be made to the Architect no later than ten (10) days prior to bid opening. Approval of substitutions will only be in writing or by addenda. Request for substitutions shall be accompanied by samples and/or detailed information as to the manufacturer of the product.

- C. *Underwriters' Laboratories Requirements:* Hardware for openings classed as requiring a UL label in the door schedule, or by code, shall be furnished and installed to meet the applicable requirements of NFPA 80. Hardware shall be UL listed for usage with types and sizes of fire doors specified and scheduled. Products tested shall meet requirements of UBC 7-2-1997 / UL10C

- D. *Accessibility Standards:* Hardware shall be in conformance with Article 9102, Texas Civil Statutes, Elimination of Architectural Barriers Act of Texas.
 - 1. Door Closers: The sweep period of closers shall be adjusted so that from an open position of 90 degrees, the door will take at least five seconds to move to an open position of approximately 12 degrees.

 - 2. The maximum force for pushing or pulling open door shall be as follows:
 - a. Exterior hinged doors: Not to exceed 8.5 lbf.
 - b. Sliding, folding, and interior hinged doors: Not to exceed 5 lbf.
 - c. Fire doors: Adjusted to meet minimum closing force permitted by governing fire safety standards.

- E. *Federal Accessibility Standards:* Hardware shall be in accordance with all requirements of the Americans With Disabilities Act - 1990.

- F. *Supplier:* A recognized builders hardware supplier who has been furnishing hardware in the project's vicinity for a period of not less than two (2) years, and who is, or has in employment, a Hardware Consultant (AHC) in good standing as certified by the Door and Hardware Institute. This consultant shall have experience in the preparation of architectural hardware specifications, estimating, detailing, ordering, servicing of architectural hardware in all its branches and will be available at reasonable times during the course of the work for project hardware consultation to the Owner, Architect and Contractor. It is the hardware distributor's responsibility to coordinate the hardware specified to work with the Aluminum doors.

- G. *Pre-Installation Instructional Meeting:* Contractor shall schedule and hold a pre-installation meeting that includes the Contractor, the Architect and/or his chosen representative, the Hardware Supplier, and all installers of hardware. Instructional meeting shall be conducted by the Hardware Supplier, covering proper installation of all items of hardware to be incorporated into the Project.

- H. *Installer:* Firm with a minimum of five years of documented experience in installing the types and grade of hardware being incorporated into the Project. Three written references from Construction Administrators of previous projects required for the Architect's review before installation Contract or Subcontract is executed.
- I. Prototype Installations: One of each type of the following hardware installations shall be performed to the Architect's (and/or his designated representative's) approval before any installations of like-type applications are performed:
 - 1. One exterior door pair with exit devices
 - 2. One exterior single door with an exit device
 - 3. One single classroom door
 - 4. One interior pair of doors with vertical rod exit devices

1.06 REFERENCES

- A. Door Hardware in this section shall meet the following as established by the American National Standards Institute, Inc. (ANSI) which is sponsored by the Builders Hardware Manufacturers Association, Inc., (BHMA). Product tests are to be administered by the ETL Testing Laboratories, Inc., or other official testing laboratories which have been designed by BHMA for the testing of ANSI standards latest revision will be in effect.
- B.

Materials and Finishes	BHMA 1301
Butts and Hinges	ANSI A156.1
Locks and Lock Trim	ANSI A156.2
Exit Devices	ANSI A156.3
Door Controls-Closers	ANSI A156.4
Auxiliary Lock & Assoc. Products	ANSI A156.5
Architectural Door Trim	ANSI A156.6
Template Hinge Dimensions	ANSI A156.7
Door Controls-Overhead Holders	ANSI A156.8
Mortise Locks and Latches	ANSI A156.13
- C. *Listed Hardware:* Hardware which is to be installed in or on fire labeled doors and frames, Class A or lesser, single or pairs shall be tested and listed by Underwriters Laboratories and/or Warnock Hersey Fire Laboratories Division. Exit devices which are to be used as panic hardware shall be tested and listed in Underwriters Laboratories "Accident Equipment List-Panic Hardware". All listed hardware shall be in compliance with National Fire Protection Association (NFPA) Standard Number 80 IBC current year adopted and be properly stamped or labeled for easy identification.

1.07 SUBMITTALS

- A. The door hardware supplier shall, after award of a formal contract, submit to the Architect, six (6) complete typewritten copies of the proposed Door Hardware Schedule for approval. This schedule shall be prepared using the "Sequence and Format for the Hardware Schedule" as approved and recommended by the Door and Hardware Institute (DHI).
- B. When submitting schedules for approval, include six (6) copies of cut sheets on each hardware item proposed. Index it with the use of number or letters or a combination of both, with the hardware schedule. The index numbers/letters are to be in the right hand column on the same line as the respective manufacturer's numbers shall be indexed even when appearing more than once.
- C. *Samples:* As part of this contract, if requested, the hardware supplier shall provide the Architect with one sample of each item of door hardware that is to be furnished for this project.
- D. *Templates:* The hardware supplier shall provide necessary templates and/or physical hardware to all trades requiring them in order that they may cut, reinforce or otherwise prepare their material or product to receive the hardware item. If physical hardware is required by any manufacturer, the hardware supplier shall ship to them such hardware via prepaid freight in sufficient time to prevent any delay in the execution of their work.

1.08 DELIVERY, STORAGE AND HANDLING

- A. All items of hardware to be delivered to the jobsite shall be completely packaged with all necessary screws, bolts, miscellaneous parts, instructions and where necessary installation templates for manufacturer's suggested installation. They are to be clearly labeled as to conveniently identify them and their intended location in the building.
- B. A representative of the General Contractor shall receive the hardware when delivered at the jobsite. A dry locked storage space complete with shelving, shall be set aside for the purpose of unpacking, sorting out, checking and storage.
- C. Door Hardware shall be delivered to the General Contractor by the hardware supplier. Direct factory shipments to the jobsite are not acceptable.
- D. The hardware shall be jointly inventoried by representatives of the General Contractor and the Hardware Supplier.

- E. Items damaged in shipment shall be replaced promptly and with proper material without additional cost to the General Contractor.
- F. All hardware shall be handled in a manner to minimize marring, scratching or damage.
- G. Store and handle all materials strictly according to the manufacturer's instructions.

1.09 WARRANTY

Door Closers shall carry a limited warranty against defects in workmanship and operation for a period of five (5) years from the date of acceptance. The balance of door hardware shall carry a limited warranty against defects in workmanship and operation for a period of one (1) year from date of acceptance. No liability is to be assumed where damage or faulty operation is due to abuse, improper usage, improper installation or failure to exercise normal maintenance.

PART 2 - PRODUCTS

2.01 FINISH OF HARDWARE

- A. Finish of items shall be as specified under the door hardware sets of this section.
- B. The finish of items not specially mentioned above nor set forth in the schedule shall be US26D, unless shown otherwise.

2.02 HINGES

- A. *Template Hinges:* Provide only template hinges which conform to ANSI A156.7.
- B. Use five-knuckle ball bearing hinges, as indicated in the hardware sets, on heavy doors, doors where high frequency service is expected, doors equipped with door closers, and all labeled doors. (Oil impregnated bearing hinges are not acceptable.)
- C. All hinges to be used on exterior doors or doors subject to special atmospheric conditions, (pool areas, chemical laboratories, sewage disposal plants, etc.) shall be of non-ferrous material, brass, bronze or stainless steel.
- D. Hinge pins, except as otherwise indicated, shall be as follows:
 - 1. Steel hinges: Steel pins
 - 2. Non-ferrous hinges: Stainless steel pins

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E. Sizes of hinges shall be as follows:

<u>Door Thickness and Width</u>	<u>Hinge Height</u>	<u>Hinge Width</u>
1 3/4" to 36"	4 1/2	4 1/2

F. Number of hinges per door, provided quantities as follows:

For doors less than 5 feet high: 1 pair

For doors 5 feet to 7 feet 6 inches high: 1 1/2 pair and additional hinge for each additional 2 1/2 feet or fraction thereof.

G. Where projection of door trim is such as to prevent degree of opening, the proper hinge width shall be provided to allow the door to clear the trim.

H. Provided above criteria are met, Acceptable and Approved as follows:

Ives
Hager
Bommer

I. Continuous Hinges shall be type scheduled and as manufactured by one of the following. Coordinate hinge type with Aluminum door supplier.

ABH
Ives
Hager

2.03 KEYING

A. All locks and cylinders shall be restricted keyway as instructed by Owner to match existing key system. Stamp all keys with "Do Not Duplicate" on one side and key symbol on the other side. A keying meeting is required prior to ordering cylinders for this project. Submit a separate keying submittal for review and approval.
Furnish "3" Change keys Each Lockset
Furnish "6" Building Master Keys
Furnish "10" Construction Master Keys
Furnish "2" Temp core removal keys
Furnish "2" Permanent core installation keys
All permanent keys to be delivered to Owner.

2.04 MORTISE LOCKS

- A. Locks shall have all functions available in one size case, manufactured from heavy gauge steel, minimum thickness of 3/32", complete chrome plated for corrosion resistance and lubricity of parts. Cases are to be closed on all sides to protect internal parts. Locks are to have adjustable, beveled and armored fronts, standard 2 3/4" backset, a full 3/4" throw two-piece mechanical anti-friction latchbolt, a one-piece stainless steel 1" throw deadbolt, and shall be available for a minimum door thickness of 1 3/8". Internal parts shall be heavy gauge steel, zinc dichromate plated for corrosion resistance.
- B. All locksets with latchbolts, regardless of trim, shall be listed by Underwriters Laboratories for A label and less class doors, 4' x 8' single or 8' x 8' pair.
- C. Lock trim (knob, lever, sectional or escutcheon) shall be throughbolted through the lock case to assure correct alignment and proper operation.
- D. Locksets shall conform to Federal Specification FF-H-106C, and be certified as meeting ANSI A156.13 Series 1000, Grade 1 requirements, ANSI A117.1, Accessibility Code (lever handle trim), and California State Reference Code, 1989 (formerly Title 19, California State Fire Marshall Standard) (lever handle trim).
- E. Acceptable and Approved: **No Substitutions**
Schlage

2.05 EXIT DEVICES

LOW PROFILE PUSH BAR EXIT DEVICES

- A. The maximum exit device projection shall be a maximum of 3-1/16" when activated. The exit device bar shall have an average minimum thickness of .201". The pushpad surface shall be constructed of stainless steel; pushpads with plastic or Lexan coatings shall not be acceptable. Nylon bearings and stainless steel springs shall be used for long life and durability. Only torsion or compression springs are acceptable. Extension type springs are not acceptable. All device covers shall be of cast brass, deep drawn steel or stainless steel. Latchbolts shall be of stainless steel and shall have a deadlocking latch for extra security, except at full-glass or two-light glass doors requiring narrow stile device. Mounting screws shall be concealed to deter tampering. All ferrous parts shall be zinc coated to prevent rusting.
- B. Single point, one quarter turn hex dogging shall be standard on panic listed devices. Optional key cylinder dogging shall be available, and furnished if so

indicated in the hardware sets, on panic listed devices. Devices with hex key dogging shall be easily field converted to cylinder dogging.

- C. All devices shall be listed by Underwriters Laboratories for safety as panic hardware. Fire rated devices shall be UL listed for A label and lesser class doors, 4' x 8' single and 8' x 8' pair. The model number shall be located on the end cap; devices having the model number located other than on the end cap shall not be acceptable.
- D. All exit devices shall have a unitized installation feature and may be cut in the field to size. Devices shall be closed on all sides with no pinch points. The pushpad shall be designed to prevent pinching of the fingers when depressed.
- E. Exit Device trim to be throughbolted. Lever trim to be heavy duty forged escutcheon with free wheeling levers.
- F. All exit devices shall conform to Federal Specification FF-H-1820, and be certified as meeting ANSI A156.3, Grade 1 requirements.
- G. Acceptable and Approved: **No Substitutions**

Von Duprin

2.06 DOOR CLOSERS

- A. Closers shall be rack and pinion construction. They shall be non-sized with adjustable spring power. Closing the door shall be controlled by two valves, one to control closing and one to control latching speed. Closers shall be regularly furnished with fully adjustable backcheck and a backcheck selector valve allowing approximate 70 degree backcheck on both regular and parallel arm closers. Delayed action shall be available. Valves shall be concealed against unauthorized adjustment and be non-critical needle valve type. Closers shall be mounted out of line of sight wherever possible (i.e., room side of corridor doors, etc.) with parallel arm mounting on out swing doors. Mount closers top jamb or on brackets and/or drop plates where special conditions exist. Include cost for any required special templates.
- B. Closers shall be certified as meeting the ANSI A156.4, Grade 1 requirements and be listed by Underwriters Laboratories for all classes of labeled doors.
- C. Door Closers shall be furnished on all labeled doors.
- D. Acceptable and Approved: **No Substitutions**

LCN

2.07 OVERHEAD STOPS AND HOLDERS

- A. Furnish overhead stops or holders of the weight, functions and materials indicated in the hardware sets.
- B. Overhead stops or holders shall be manufactured entirely of metallic components. Units containing plastic, nylon, or similar materials are not acceptable.
- C. Acceptable and Approved as follows:

ABH Manufacturing
Glynn Johnson

2.08 TRIM/KICK PLATES/DOOR STOPS

- A. All door protection plates to be manufactured of .050" stainless steel. Protection plates to be furnished 2" less than door width on single doors and 1" less than door width on pairs of doors.
- B. Wall mounted door stops shall be provided where door leaves will strike a wall at the end of their opening cycle. If other conditions exist, furnish floor stops or overhead stops as required.
- C. Acceptable and Approved as follows:

Trimco/Quality
Baldwin
Ives

2.09 WEATHERSTRIP/THRESHOLDS/SMOKE SEALS

- A. Provide weatherstrip, thresholds, and/or sound seals for each opening as scheduled. Review Sill detail on Architectural drawings and furnish threshold type required.
- B. Provide smoke seal (including meeting stile seal for door pairs) for all fire rated doors. All smoke seal and astragals shall be listed by either Underwriters Laboratory or Warnock-Hersey as Category "H" – Smoke and Draft Control Gasket under the testing protocols of UBC Standard 7-2 – 1997, Part 2 and/or UL1784. All smoke seal and astragals shall, additionally, comply with the door manufacturer's listing under the same protocols.

- C. Acceptable and Approved as follows:

National Guard

Pemko

Zero

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Mount hardware units at heights indicated in "Recommended Locations for Builders Hardware" for (Standard Steel Doors and Frames) by the Door and Hardware Institute (DHI), except if otherwise specifically indicated or to comply with requirements of governing regulations, requirements for the handicapped, or if otherwise directed by the Architect.
- B. All hardware shall be installed by a tradesman skilled in the application of commercial grade hardware.
- C. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Securely fasten all parts to be attached. Fit faces of mortise parts snug and flush. Make sure all operating parts move freely and smoothly without binding, sticking or excessive clearance. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, the hardware shall be removed and stored prior to the painting or finishing. Items shall then be reinstalled only when the finished have been completed on the surface to which the hardware is to be applied.
- D. At exterior doors and elsewhere as indicated, set thresholds in a bed of sealant as specified in Section 07900 to completely fill concealed voids and excluded moisture from every source. Do not plug drain hole or block weeps. Remove excess sealant.
- E. After installation, representative templates, instruction sheets and installation details shall be placed in a file folder to be turned over to the Owner when building is accepted. Included shall be at least five (5) each of any special adjusting and/or installation tools furnished with the hardware by the manufacturers.

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PART 4 - SCHEDULES

4.01 HARDWARE SETS

Hardware Group No. 001

For use on mark/door #(s):

00A	00C	00D	00E	00F	01A
102A	103A	83A	83B	83C	84C
84D	89A				

Provide each SL door(s) with the following:

1	NOTE	HARDWARE BY DOOR MANUFACTURER
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Hardware Group No. 002

For use on mark/door #(s):

40B	41B	69B	69C	97C
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Provide each RU door(s) with the following:

1	EA	MORTISE CYLINDER	20-059 TYPE AS REQ	626	SCH
1	EA	FSIC CORE	23-030 ICX CONSTRUCTION CORE	622	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1		NOTE	HARDWARE BY DOOR MANUFACTURER		

Hardware Group No. 103

For use on mark/door #(s):

30	31	32	37	44	48
55	59	62	63	64	78
80	98A				

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	OFFICE/ENTRY LOCK	L9050T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

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Hardware Group No. 201

For use on mark/door #(s):

42A~ 61B 71 98B

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L9080T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 212S

For use on mark/door #(s):

58 99B

Provide each PR door(s) with the following:

6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
2	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	L9080T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	OH STOP	900S SERIES X SIZE & MOUNTING AS REQ	630	GLY
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 301

For use on mark/door #(s):

82

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	L9040 06A	626	SCH

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1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 500

For use on mark/door #(s):

76A 84A

Provide each PR door(s) with the following:

6	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	AUTO FLUSH BOLT	FB31B	630	IVE
1	EA	CLASSROOM LOCK	L9070T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 501

For use on mark/door #(s):

79B~

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 501W

DOOR HARDWARE
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For use on mark/door #(s):

79C~

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1 5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 507W

For use on mark/door #(s):

72

Provide each SGL door(s) with the following:

3	EA	HINGE	5BB1 5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070T 06A	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	OH STOP	900S SERIES X SIZE & MOUNTING AS REQ	630	GLY
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 700

For use on mark/door #(s):

93	94	95	96A	96B	96C
96D	96E	96F	96G	96H	96J
96K	96M	96N	96P	96Q	96R
96S	96T	96U	96V	96W	

Provide each PR door(s) with the following:

2	EA	CONT. HINGE	112HD	628	IVE
2	EA	PANIC HARDWARE	9949/50-L-06 (WDC @ WD) LENGTH & HEIGHT AS REQ	626	VON
2	EA	RIM HOUSING	20-079	626	SCH
2	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH

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2	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 701

For use on mark/door #(s):

102B 102C 86A 86B

Provide each SGL door(s) with the following:

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	99-L-06 LENGTH AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 714

For use on mark/door #(s):

84B

Provide each PR door(s) with the following:

2	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	9949/50-EO LENGTH & HEIGHT AS REQ	626	VON
1	EA	PANIC HARDWARE	9949/50-NL LENGTH & HEIGHT AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142A DW + 4"	AA	ZER
1	EA	GASKETING	328AA H & J	AA	ZER
1	EA	ASTRAGAL	328AA (2 PCS - 1 SET) HEIGHT AS REQUIRED	AL	ZER
2	EA	DOOR SWEEP	8198AA LENGTH AS REQ	AA	ZER
1	EA	THRESHOLD	65A LENGTH AS REQ	A	ZER

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Hardware Group No. 714A

For use on mark/door #(s):

89B 89C 89D 89E

Provide each PR door(s) with the following:

2	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	9949/50-EO LENGTH & HEIGHT AS REQ	626	VON
1	EA	PANIC HARDWARE	9949/50-NL LENGTH & HEIGHT AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	SET	SEAL	PERIMETER SEAL BY FRAME MANUFACTURER		
1	EA	RAIN DRIP	142A DW + 4"	AA	ZER
1	SET	ASTRAGAL	MEETING STILE SEAL BY DOOR MANUFACTURER		
2	EA	DOOR SWEEP	8198AA LENGTH AS REQ	AA	ZER
1	EA	THRESHOLD	65A LENGTH AS REQ	A	ZER

Hardware Group No. 715

For use on mark/door #(s):

98B~

Provide each SGL door(s) with the following:

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	99-NL LENGTH AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142A DW + 4"	AA	ZER
1	EA	GASKETING	328AA H & J	AA	ZER
1	EA	DOOR SWEEP	8198AA LENGTH AS REQ	AA	ZER
1	EA	THRESHOLD	65A LENGTH AS REQ	A	ZER

Hardware Group No. 715A

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For use on mark/door #(s):

00B 00G

Provide each SGL door(s) with the following:

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	PANIC HARDWARE	99-NL LENGTH AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	SET	SEAL	PERIMETER SEAL BY FRAME MANUFACTURER		
1	EA	DOOR SWEEP	8198AA LENGTH AS REQ	AA	ZER
1	EA	THRESHOLD	65A LENGTH AS REQ	A	ZER

Hardware Group No. 801

For use on mark/door #(s):

11 13 22 24 87 88

Provide each SGL door(s) with the following:

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER

Hardware Group No. 801AV

For use on mark/door #(s):

01B 01C

Provide each SGL door(s) with the following:

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	DUMMY PUSH BAR	330 LENGTH AS REQ	626	VON
1	EA	90 DEG OFFSET PULL	8190-O 10"	630	IVE
1	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	SET	SEAL	PERIMETER SEAL BY FRAME MANUFACTURER		

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1 SET ASTRAGAL MEETING STILE SEAL BY DOOR MANUFACTURER

Hardware Group No. 801C

For use on mark/door #(s):

73 74

Provide each SGL door(s) with the following:

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	GASKETING	188S H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER

Hardware Group No. 891GLW

For use on mark/door #(s):

102D 102E 102F 102G 103B 103C

Provide each PR door(s) with the following:

2	EA	FLOOR CLOSER	PH27	626	RIX
1	EA	CAM LOCK	7150BN - KEYED AS REQ BY OWNER	619	CRL
2	EA	PUSH/PULL BAR	9190EZHD-12"-NO	630-316	IVE

Hardware Group No. C201

For use on mark/door #(s):

04	05	06	08	100	16
21	28A	28B	34B	35	36
41A	42A	42B	43	45A	45B
46	47	49	50	51	54
56	57	60B	61	70	79D
90A	92A				

Provide each SGL door(s) with the following:

2	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	HINGE	5BB1 4.5 X 4.5 CON TW8	652	IVE
1	EA	EU MORTISE LOCK	L9092TEU 06A RX (FAIL SECURE)	626	SCH

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27 38 39

Provide each SGL door(s) with the following:

2	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	HINGE	5BB1HW 5 X 4.5 CON TW8	652	IVE
1	EA	EU MORTISE LOCK	L9092TEU 06A RX (FAIL SECURE)	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER
1	EA	HARNESS (TO POWER SUPPLY)	CON-192P		SCH
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
1	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		VON

Hardware Group No. C201W

For use on mark/door #(s):

02 17A 68B

Provide each SGL door(s) with the following:

2	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	HINGE	5BB1HW 5 X 4.5 CON TW8	652	IVE
1	EA	EU MORTISE LOCK	L9092TEU 06A RX (FAIL SECURE)	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER
1	EA	HARNESS (TO POWER SUPPLY)	CON-192P		SCH
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
1	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		VON

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Hardware Group No. C206

For use on mark/door #(s):

33 52 60C 67 99A

Provide each PR door(s) with the following:

5	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	HINGE	5BB1 4.5 X 4.5 CON TW8	652	IVE
1	SET	AUTO FLUSH BOLT	FB31P	630	IVE
1	EA	EU MORTISE LOCK	L9092TEU 06A RX (FAIL SECURE)	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	COORDINATOR	COR X FL	628	IVE
2	EA	OH STOP	900S SERIES X SIZE & MOUNTING AS REQ	630	GLY
2	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON-RATED DOORS)	BK	ZER
1	EA	HARNESS (TO POWER SUPPLY)	CON-192P		SCH
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
2	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		VON

Hardware Group No. C207

For use on mark/door #(s):

07 12A 12B

Provide each SGL door(s) with the following:

2	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	HINGE	5BB1 4.5 X 4.5 CON TW8	652	IVE
1	EA	EU MORTISE LOCK	L9092TEU 06A RX (FAIL SECURE)	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	OH STOP	900S SERIES X SIZE & MOUNTING AS REQ	630	GLY
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE

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2	EA	CONT. HINGE	112HD EPT	628	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-9949/50-DT-CON LENGTH & HEIGHT AS REQ	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-9949/50-NL-CON LENGTH & HEIGHT AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 ICX CONSTRUCTION CORE	622	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER
2	EA	HARNESS (TO POWER SUPPLY)	CON-192P		SCH
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
2	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 2RS		VON
2	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		VON

Hardware Group No. C711C

For use on mark/door #(s):

79C 97AB

Provide each SGL door(s) with the following:

1	EA	CONT. HINGE	112HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL-CON LENGTH AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 ICX CONSTRUCTION CORE	622	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER
1	EA	HARNESS (TO POWER SUPPLY)	CON-192P		SCH
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
1	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE

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1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION	
1	EA	POWER SUPPLY	PS902 2RS	VON
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ	VON

Hardware Group No. C714

For use on mark/door #(s):

60A 97D

Provide each PR door(s) with the following:

2	EA	CONT. HINGE	112HD EPT	628	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-9949/50-DT-CON LENGTH & HEIGHT AS REQ	626	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-9949/50-NL-CON LENGTH & HEIGHT AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 ICX CONSTRUCTION CORE	622	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
2	EA	PROTECTION PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142A DW + 4"	AA	ZER
1	EA	MEETING STILE	328AA (2 PCS - 1 SET) HEIGHT AS REQUIRED	AA	ZER
1	EA	GASKETING	328AA H & J	AA	ZER
2	EA	DOOR SWEEP	8198AA LENGTH AS REQ	AA	ZER
1	EA	THRESHOLD	65A LENGTH AS REQ	A	ZER
2	EA	HARNESS (TO POWER SUPPLY)	CON-192P		SCH
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
2	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 2RS		VON
2	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		VON

Hardware Group No. C715

For use on mark/door #(s):

26 34A 68A 69A 79A 97A
97B 98A~

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Provide each SGL door(s) with the following:

1	EA	CONT. HINGE	112HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	RX-QEL-99-NL-CON LENGTH AS REQ	626	VON
1	EA	RIM HOUSING	20-079	626	SCH
1	EA	FSIC CORE	23-030 ICX CONSTRUCTION CORE	622	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142A DW + 4"	AA	ZER
1	EA	GASKETING	328AA H & J	AA	ZER
1	EA	DOOR SWEEP	8198AA LENGTH AS REQ	AA	ZER
1	EA	THRESHOLD	65A LENGTH AS REQ	A	ZER
1	EA	HARNESS (TO POWER SUPPLY)	CON-192P		SCH
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
1	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE
1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902 2RS		VON
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		VON

Hardware Group No. CD201W

For use on mark/door #(s):

40A

Provide each DD door(s) with the following:

3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	HINGE	5BB1HW 5 X 4.5 CON TW8	652	IVE
1	EA	DUTCH DOOR BOLT	054	626	IVE
1	EA	EU MORTISE LOCK	L9092TEU 06A RX (FAIL SECURE)	626	SCH
1	EA	FSIC CORE	23-030 PERMANENT CORE	626	SCH
1	EA	SURFACE CLOSER	4040XP OR P4040XP X MTG BRKT, SPCR & PLATE AS REQ X ST3596	689	LCN
1	EA	PROTECTION PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	188S H & J (USE SILENCERS @ NON- RATED DOORS)	BK	ZER
1	EA	HARNESS (TO POWER SUPPLY)	CON-192P		SCH
1	EA	CREDENTIAL READER	CARD READER BY ANOTHER SECTION		
1	EA	DOOR CONTACT	679-05 TYPE AS REQ	WHT	SCE

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1	EA	POWER SUPPLY	POWER SUPPLY FOR CARD READER BY ANOTHER SECTION		
1	EA	POWER SUPPLY	PS902	LGR	SCE
1	EA	HARNESS (IN DOOR)	ALLEGION CONNECT TYPE & LENGTH AS REQ		VON

END OF SECTION