

## DIVISION 8 - DOORS & WINDOWS

### SECTION 08700 - FINISH HARDWARE

#### Part 1 - General

##### 1.01 Work Included:

- A. All materials, labor services and incidentals necessary for the completion of this section of the work.

##### 1.02 Related Work Specified Elsewhere:

- A. Finish Carpentry - Section 06200
- B. Custom Casework - Section 06410
- C. Metal Doors and Frames - Section 08100
- D. Wood Doors - Section 08200

##### 1.03 Quality Assurance:

- A. This material shall be procured from a source of supply approved by the Architect as having a member of their firm registered by the American Society of Contracting Architectural Hardware Consultants, and with a proven record of several years of satisfactory experience in contract builder's hardware, both in furnishing material and properly servicing jobs. The supplier also must be an established contract builder's hardware firm who meets all the above requirements, and who maintains and operates an office, display room and stock.

##### 1.04 Submittals:

- A. Prepare a complete schedule including all items processed for each opening and other miscellaneous items and submit four copies to the Architect for approval within 30 days submitted within that time, the supplier shall furnish the hardware specified by catalog number.
- B. Indicate on schedule name of manufacturer after each item.
- C. Upon receiving the approved schedule, the hardware supplier shall immediately forward a copy to the metal frame suppliers, when applicable; and as soon as they receive approved shop drawings, they will immediately forward a complete set to the hardware supplier who can then check the applications and make any necessary minor revisions. If revisions are necessary, notify Architect immediately.
- D. Mark each item of hardware for opening on which it is to be used and deliver a complete schedule to the contractor when hardware is delivered.

##### 1.05 Schedule:

- A. This specification describes the quality, character and function that is required of items of hardware; however, it is not intended to mention each particular item.
- B. It is the responsibility of the supplier to thoroughly detail the entire project to assure that the items specified will properly function in the indicated locations and **meet the requirements of the Owner.**
- C. Quantities shall be determined by the bidder. Part 2, following, indicates the type and function of material applicable to the typical opening. Should an unlisted opening require different type of function of hardware than that specified, for similar opening, notify the Architect, and provide hardware for unlisted openings within the bid.

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#### Part 2 - Products

##### 2.01 Finish Hardware:

###### A. Standards of Quality:

1. Codes, specifications and published recommendations, latest editions of the following are hereby made part of this section of the specifications in so far as they apply to the material or work called for.
  - a. National Builders Hardware Association (NBHA)
  - b. American Society for Testing Materials (ASTM)
  - c. Underwriters Laboratories (UL)
  - d. National Fire Protection Association (NFPA)
  - e. Code of Ethics of ASAH & NBHA
  - f. Federal Emergency Management Agency (FEMA)
2. Federal Specification, (ANSI Specifications):
  - a. Hinges: FF-H-116C (ANSI A156.1)
  - b. Locks and Door Trim: FF-H-106A (ANSI A 156.2)
  - c. Auxiliary Locks: FF-H-106A (ANSI A 156.5)
  - d. Exit Devices: FF-H-106A, FF-H-111B, FF-L486 (ANSI A156.3).
  - e. Door Closers: FF-H-121C (ANSI A 156.4)
  - f. Shelf and Miscellaneous Hardware: FF-H-00116 (ANSI A156.6).
  - g. All Door hardware: Comply with ADAAG where applicable.

###### B. General:

1. All hardware relating to hollow metal doors and frames shall be to standard templates of each respective hardware manufacturer for items furnished.
  - a. The related suppliers such as hollow metal doors and frames and such others as may be required will furnish the hardware supplier one copy of each of their approved shop drawings for proper coordination of their work and the finish hardware.

###### C. Manufacturers and Requirements:

1. Hardware manufacturers and brand names are for a guide as to type and standard required and all such hardware furnished must meet these standards as far as quality, weight, finish and design.

###### D. Keying:

1. All locks and cylinders to be masterkeyed as directed by the Architect/Owner.
2. Keys: Furnish the following keys:
  - a. 2 change keys each lock or cylinder
  - b. 6 masterkeys
  - c. **all EXTERIOR locks and cylinders shall be Primus Schlage Key System and keyed to Owner's Primus Master Key system. All remaining interior locks and cylinders shall be Classic Schlage and keyed to the Owner's Primus Master Key System.**

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2.02 Hardware Sets:

**Hardware Group No. 001: Provide each PR door(s) with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
2	EA PIVOT SET	7215 SET	626	IVE
2	EA PIVOT	7215 INT	626	IVE
1	EA MULLION	KR4954 HEIGHT AS REQUIRED	689	VON
1	EA PANIC HARDWARE	CD99EO LENGTH AS REQUIRED	626	VON
1	EA PANIC HARDWARE	CD99NL-OP LENGTH AS REQUIRED	626	VON
1	EA RIM CYLINDER	20-057 ICX	626	SCH
3	EA MORTISE CYLINDER	20-061 ICX	626	SCH
4	EA PRIMUS CORE ONLY	20-740	626	SCH
2	EA OFFSET DOOR PULL	8190-0-0	630	IVE
2	EA SURFACE CLOSER	4041 SCUSH MTG BRKTS, SPCRS & PLATES AS REQ	689	LCN
2	EA DOOR SWEEP	C627A LENGTH AS REQUIRED	AL	NGP
1	EA THRESHOLD	896V LENGTH AS REQUIRED	AL	NGP
1	MEETING STYLE SEAL BY DOOR MANUFACTURER			
1	PERIMETER SEAL BY DOOR MANUFACTURER			
	REFER TO ELECTRICAL FOR ACCESS, CARD READER, ETC. INFORMATION.			

**Hardware Group No. 002: Provide each SGL door(s) with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
3	EA HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA PRIVACY SET	L9444 03N	626	SCH
1	EA STOP	WS407CCV OR FS436 AS REQUIRED	628	IVE
3	EA SILENCER	SR64	GRY	IVE

**Hardware Group No. 003: Provide each PR door(s) with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
6	EA HINGE	5BB1 4.5 X 4.5	652	IVE
1	SET AUTO FLUSH BOLT	FB31P OR FB41P AS REQUIRED	630	IVE
1	EA DUST PROOF STRIKE	DP2	626	IVE
1	EA STOREROOM LOCK	L9080T 03N	626	SCH
1	EA CLASSIC CORE	23-030	626	SCH
1	EA COORDINATOR	COR X FL X MTG BRKTS X HW PREPS X LENGTH AS REQ	628	IVE
1	SET ASTRAGAL	9605A HEIGHT AS REQ (OMIT @ NON-RATED DOORS)	AL	NGP
2	EA SURFACE CLOSER	4041 OR P4041 MTG BRKTS, SPCRS & PLATES AS REQ	689	LCN
2	EA KICK PLATE	8400 10" X 1" LDW	630	IVE
2	EA STOP	WS407CCV OR FS436 AS REQUIRED	628	IVE
1	SET SEALS	5050BR H & J (USE SILENCERS @ NON-RATED DOORS)	CLR	NGP

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**Hardware Group No. 004: Provide each SGL door(s) with the following:**

Quantity	Description	Model Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	652 IVE
1	EA	STOREROOM LOCK	L9080T 03N	626 SCH
1	EA	CLASSIC CORE	23-030	626 SCH
1	EA	SURFACE CLOSER	4041 OR P4041 MTG BRKTS, SPCRS & PLATES AS REQ	689 LCN
1	EA	KICK PLATE	8400 10" X 2" LDW	630 IVE
1	EA	STOP	WS407CCV OR FS436 AS REQUIRED	628 IVE
1	SET	SEALS	5050BR H & J (USE SILENCERS @ NON-RATED DOORS)	CLR NGP

**Hardware Group No. 005: Provide each SGL door(s) with the following:**

Quantity	Description	Model Number	Finish	Mfr
1	EA	CONTINUOUS HINGE	224HD HEIGHT AS REQUIRED	628 IVE
1	EA	PANIC HARDWARE	CD99NL-OP LENGTH AS REQUIRED	626 VON
1	EA	RIM CYLINDER	20-057 ICX	626 SCH
1	EA	MORTISE CYLINDER	20-061 ICX	626 SCH
1	EA	PRIMUS CORE ONLY	20-740	626 SCH
1	EA	OFFSET DOOR PULL	8190-0-0	630 IVE
1	EA	SURFACE CLOSER	4041 OR P4041 MTG BRKTS, SPCRS & PLATES AS REQ	689 LCN
1	EA	KICK PLATE	8400 10" X 1" LDW	630 IVE
1	EA	STOP	WS407CCV OR FS436 AS REQUIRED	628 IVE
1	EA	DOOR SWEEP	C627A LENGTH AS REQUIRED	AL NGP
1	EA	THRESHOLD	896V LENGTH AS REQUIRED	AL NGP

**Hardware Group No. 006: Provide each SGL door(s) with the following:**

Quantity	Description	Model Number	Finish	Mfr
3	EA	HINGE	5BB1 4.5 X 4.5	652 IVE
1	EA	STORE LOCK	L9466T 03N	626 SCH
2	EA	CLASSIC CORE	23-030	626 SCH
1	EA	STOP	WS407CCV OR FS436 AS REQUIRED	628 IVE
3	EA	SILENCER	SR64	GRY IVE

**Hardware Group No. 007: Provide each PR doors with the following:**

Quantity	Description	Model Number	Finish	Mfr
2	EA	CONTINUOUS HINGE	224HD HEIGHT AS REQUIRED	628 IVE
1	EA	MULLION	KR4954 HEIGHT AS REQUIRED	689 VON
1	EA	PANIC HARDWARE	CD99EO LENGTH AS REQUIRED	626 VON
1	EA	PANIC HARDWARE	CD99NL-OP LENGTH AS REQUIRED	626 VON
1	EA	RIM CYLINDER	20-057 ICX	626 SCH
3	EA	MORTISE CYLINDER	20-061 ICX	626 SCH
4	EA	PRIMUS CORE ONLY	20-740	626 SCH
2	EA	OFFSET DOOR PULL	8190-0-0	630 IVE
2	EA	SURFACE CLOSER	4041 SCUSH MTG BRKTS, SPCRS & PLATES AS REQ	689 LCN

REFER TO ELECTRICAL FOR ACCESS, CARD READER, ETC. INFORMATION.

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**Hardware Group No. 008: Provide each SGL door(s) with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
3	EA HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA LOCK	ND66T TRL	626	SCH
1	EA OVERHEAD STOP	904S	630	GJ
1	EA SURFACE CLOSER	4040SE MTG BRKTS, SPCRS & PLATES AS REQ (MAX DEGREE HOLD OPEN)	689	LCN
1	EA KICK PLATE	8400 10" X 2" LDW	630	IVE
2	EA CLASSIC CORES	23-030	626	SCH
1	SET SEALS	5050B H & J	BLK	NGP

**Provide ALL connections required to the fire alarm and electrical systems necessary for a fully functioning device meeting all applicable codes. REFER TO ELECTRICAL FOR ACCESS, CARD READER, ETC. INFORMATION.**

**Hardware Group No. 009: Provide each SGL door(s) with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
3	EA HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA CLASSROOM LOCK	L9070T 03N	626	SCH
1	EA CLASSIC CORE	23-030	626	SCH
1	EA SURFACE CLOSER	4041H OR P4041H MTG BRKTS, SPCRS & PLATES AS REQ	689	LCN
1	EA KICK PLATE	8400 10" X 1" LDW	630	IVE
1	EA STOP	WS407CCV OR FS436 AS REQUIRED	628	IVE
1	SET SEALS	5050B H & J	BLK	NGP

**Hardware Group No. 010: Provide each SGL door(s) with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
3	EA HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA PUSH PLATE	8200 4" X 16"	630	IVE
1	EA PULL PLATE	8303EZ-0 4" X 16"	630	IVE
1	EA SURFACE CLOSER	4041H OR P4041H MTG BRKTS, SPCRS & PLATES AS REQ	689	LCN
1	EA KICK PLATE	8400 10" X 1" LDW	630	IVE
1	EA STOP	WS407CCV OR FS436 AS REQUIRED	628	IVE
1	EA SILENCER	SR64	GRY	IVE

**Hardware Group No. 011: Provide each SGL door(s) with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
3	EA HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA OFFICE LOCK	L9050T 03N	626	SCH
1	EA CLASSIC CORE	23-030	626	SCH
1	EA STOP	WS407CCV OR FS436 AS REQUIRED	628	IVE
3	EA SILENCER	SR64	GRY	IVE

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**Hardware Group No. 012: Provide each SGL door(s) with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
3	EA HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA PASSAGE SET	L9010T 03N	626	SCH
1	EA KICK PLATE	8400 10" X 2" LDW	630	IVE
1	EA STOP	WS407CCV OR FS436 AS REQUIRED	628	IVE

**Hardware Group No. 013: Provide each PR door(s) with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
2	EA CONTINUOUS HINGE	224HD HEIGHT AS REQ	628	IVE
1	EA MULLION	KR4954 HEIGHT AS REQ	689	VON
1	EA PANIC HARDWARE	CD99EO LENGTH AS REQUIRED	626	VON
1	EA PANIC HARDWARE	CD99NL-OP LENGTH AS REQUIRED	626	VON
1	EA RIM CYLINDER	20-057 ICX	626	SCH
3	EA MORTISE CYLINDER	20-061 ICX	626	SCH
4	EA PRIMUS CORE ONLY	20-740	626	SCH
2	EA SURFACE CLOSER	4040XP SHCUSH MTG BKTS, SPCRS & PLATES AS REQ	689	LCN
2	EA OFFSET DOOR PULL	8190-0-0	630	IVE
2	EA KICK PLATE	8400 10" X 2" LDW	630	IVE
1	SET SEALS	700SA H & J (INSTALL PRIOR TO OTHER HARDWARE)	AL	NGP
2	EA DOOR SWEEP	C627A LENGTH AS REQ	AL	NGP
1	EA OVERHEAD RAIN DRIP	16A DW + 4"	AL	NGP
1	EA THRESHOLD	896V LENGTH AS REQ	AL	NGP

REFER TO ELECTRICAL FOR ACCESS, CARD READER, ETC. INFORMATION, ETC.

**Hardware Group No. 014: Provide each SGL door(s) with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
3	EA HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA OFFICE LOCK	L9050T 03N	626	SCH
1	EA CLASSIC CORE	23-030	626	SCH
1	EA STOP	WS407CCV OR FS436 AS REQUIRED	628	IVE
3	EA SILENCER	SR64	GRY	IVE
1	EA SURFACE CLOSER	4041 OR P4041 MTG BRKTS, SPCRS & PLATES AS REQ	689	LCN

**Hardware Group No. 015: Provide each PR doors with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
2	EA CONTINUOUS HINGE	224HD HEIGHT AS REQUIRED	628	IVE
1	EA MULLION	KR4954 HEIGHT AS REQUIRED	689	VON
1	EA PUSH PLATE	8200 4" X 16"	630	IVE
1	EA PULL PLATE	8303EZ-0 4" X 16"	630	IVE
2	EA SURFACE CLOSER	4041 SCUSH MTG BRKTS, SPCRS & PLATES AS REQ	689	LCN
2	EA KICK PLATE	8400 10" X 2" LDW	630	IVE
1	SET SEALS	5050B H & J	BLK	NGP

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**Hardware Group No. 016: Provide each SGL door(s) with the following:**

<b>Quantity</b>	<b>Description</b>	<b>Model Number</b>	<b>Finish</b>	<b>Mfr</b>
3	EA HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA OFFICE LOCK	L9050T 03N	626	SCH
1	EA CLASSIC CORE	23-030	626	SCH
1	EA STOP	WS407CCV OR FS436 AS REQUIRED	628	IVE
3	EA SILENCER	SR64	GRY	IVE

REFER TO ELECTRICAL FOR ACCESS, CARD READER, ETC. INFORMATION.

The following list of products and manufactures are acceptable for this project.

<u>Product</u>	<u>Manufacture and Approved Equals</u>
1. Hinges	A. Ives B. Hager C. Bommer
2. Continuous Hinges	A. Pemko B. Roton C. Select
3. Key System	A. <b>Schlage (No substitutions)</b>
4. Lock/Latch	A. <b>Schlage (No substitutions)</b>
5. Closers	A. <b>LCN (No substitutions)</b>
6. Exit Devices	A. <b>Von Duprin (No substitutions)</b>
7. Push/Pull/Plates	A. Ives B. Rockwood C. Trimco
8. Misc. Stop, Bolts, etc.	A. Ives B. Glynn-Johnson C. Rockwood
9. Door Seal/Thresholds	A. National Guard B. Pemko C. Reese

Each Product, by category, shall be the product of one manufacture. Complete lockset, including keyed lock cylinder, shall be the product of one manufacturer unless noted otherwise.

**Part 3 - Execution**

**3.01 Installation:**

- A. Install all finish hardware in strict accordance with the

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manufacturer's recommendations and printed instructions. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, install each item completely and then remove and store in a secure place during the finish application. After completion of the finishes, reinstall each item. Do not install surface mounted items until finishes have been completed on the substrate.

- B. All hardware relating to hollow metal and aluminum doors and frames shall be to standard templates of each respective hardware manufacturer for items furnished.
  - C. Mounting Heights: Mount Hardware units at heights recommended by the National Builders Hardware Association, except as specifically indicated or required to comply with governing regulations, or as may be otherwise directed by the Architect.
- 3.02 Prior to the Final Inspection:
- A. The supplier shall check all closers for proper operation after they have been installed and adjusted by the Contractor. He shall verify the keying to ensure proper location of locksets and shall assist the Contractor in correcting faulty operation of any locks.
  - B. Within 30 days after the acceptance of the entire project, the Contractor shall be responsible for this supplier meeting with the maintenance custodian at the job site for the purpose of instructing him thoroughly in the proper repair and adjustment of all finish hardware items, and items, and shall present to the custodian a full complement of tools to be used.

**End of Section**