

SECTION 08 71 00
DOOR HARDWARE

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Door hardware and related items necessary for complete installation and operation of doors.

1.2 RELATED WORK

- A. Sealants: Section 07 92 00 JOINT SEALANTS.
- B. Location of doors and applicable hardware groups: Section 08 06 10, DOOR SCHEDULE
- C. Application of Hardware: Section 08 14 00, INTERIOR WOOD DOORS; Section 08 11 13, HOLLOW METAL DOORS AND FRAMES; Section 08 36 13, SECTIONAL DOORS; Section 08 52 15, CLAD WOOD WINDOWS AND DOORS and Section 08 71 15, LOW ENERGY POWER ASSIST DOOR OPERATORS.
- D. Card Readers: Section 28 13 11, PHYSICAL ACCESS CONTROL SYSTEMS.

1.3 GENERAL

- A. All hardware shall comply with UFAS, (Uniform Federal Accessible Standards) unless specified otherwise.
- B. Hardware for Labeled Fire Doors and Exit Doors: Conform to requirements of NFPA 80 for labeled fire doors and to NFPA 101 for exit doors, as well as to other requirements specified. Provide hardware listed by UL, except where heavier materials, large size, or better grades are specified herein under paragraph HARDWARE SETS. In lieu of UL labeling and listing, test reports from a nationally recognized testing agency may be submitted showing that hardware has been tested in accordance with UL test methods and that it conforms to NFPA requirements
 - 1. NOTE: The word "FIRE" must be included as part of the certification on the Underwriters Laboratories label on exit devices to be used on fire doors.
- C. Hardware for application on metal and wood doors and frames shall be made to standard templates. Furnish templates to the fabricator of these items in sufficient time so as not to delay the construction.
- D. The following items shall be of the same manufacturer, if possible, except as otherwise specified:
 - 1. Cylindrical and Mortise locksets.
 - 2. Hinges for hollow metal and wood doors.
 - 3. Surface applied overhead door closers.

4. Exit devices.

1.4 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
- B. Hardware Schedule: Prepare and submit hardware schedule in the following form:

Hardware Item	Quantity	Size	Reference Publication Type No.	Finish	Mfr. Name and Catalog No.	Key Control Symbols	UL Mark (if fire rated and listed)	ANSI/BHMA Finish Designation

- C. Samples and Manufacturers' Literature:
 - 1. Samples: All hardware items (proposed for the project) that have not been previously approved by Builders Hardware Manufacturers Association shall be submitted for approval. Tag and mark all items with manufacturer's name, catalog number and project number.
 - 2. Samples are not required for hardware listed in the specifications by manufacturer's catalog number, if the contractor proposes to use the manufacturer's product specified.
- D. Certificate of Compliance and Test Reports: Submit certificates that hardware conforms to the requirements specified herein. Certificates shall be accompanied by copies of reports as referenced. The testing shall have been conducted either in the manufacturer's plant and certified by an independent testing laboratory or conducted in an independent laboratory, within four years of submittal of reports for approval.

1.5 QUALITY ASSURANCE

- A. Pre-Installation Meeting: Prior to the start of construction, the general contractor shall schedule and conduct a pre-installation meeting with the hardware supplier and the manufacturer representative who supplied the commercial locks, the exit devices and the door controls/closers. The purpose is to coordinate materials and techniques, and sequence complex hardware items and systems

installation. Proper and correct installation and adjustment of hardware is to be reviewed, and criteria for punch list review will be established. Convene at least one week prior to commencement of hardware installation. Written documentation of date, attendees and participants is to be provided to the Project Engineer for record.

1.6 DELIVERY AND MARKING

- A. Deliver items of hardware to job site in their original containers, complete with necessary appurtenances including screws, keys, and instructions. Tag one of each different item of hardware and deliver to Resident Engineer for reference purposes. Tag shall identify items by Project Specification number and manufacturer's catalog number. These items shall remain on file in Resident Engineer's office until all other similar items have been installed in project, at which time the Resident Engineer will deliver items on file to Contractor for installation in predetermined locations on the project.

1.7 INSTRUCTIONS

- A. Hardware Set Symbols on Drawings: Except for protective plates, door stops, mutes, thresholds and the like specified herein, hardware requirements for each door are indicated on drawings by symbols. Symbols for hardware sets consist of letters "HW" followed by a number. Each number designates a set of hardware items applicable to a door type.
- B. Manufacturers' Catalog Number References: Where manufacturers' products are specified herein, products of other manufacturers which are considered equivalent to those specified may be used, except for Best locks, LCN closers and Von Duprin exit devices which are sole source items. Manufacturers whose products are specified are identified herein by abbreviations as follows:

Adams-Rite	Adams Rite Mfg. Co.	Glendale, CA
ABH	ABH Mfg., Inc.	Itaska, Il
LCN	LCN Closers	Princeton, IL
Best	Best Mfg., Co.	Indianapolis, In
PBB	PBB Mfg., Inc.	Ontario, Ca.
Stanley	The Stanley Works	New Britain, CT
Trimco	Triangle Brass Mfg. Co.	Los Angeles, CA
Unican	Simplex Security Systems	Collinsville, CT

Von Duprin	Von Duprin Hardware Co.	Indianapolis, IN
NGP	National Guard Products	Memphis, Tn.
Rockwood	Rockwood Mfg Co.	Reamstown, Pa.

1.8 APPLICABLE PUBLICATIONS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only. In text, hardware items are referred to by series, types, etc., listed in such specifications and standards, except as otherwise specified.
- B. American Society for Testing and Materials (ASTM):
 - F883-04.....Padlocks
- C. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA):
 - A156.1-00.....Butts and Hinges
 - A156.2-03.....Bored and Pre-assembled Locks and Latches
 - A156.3-01.....Exit Devices
 - A156.4-00.....Door Controls (Closers)
 - A156.5-01.....Auxiliary Locks and Associated Products
 - A156.6-05.....Architectural Door Trim
 - A156.8-05.....Door Controls-Overhead Stops and Holders
 - A156.13-05.....Mortise Locks and Latches Series 1000
 - A156.15-06.....Release Devices-Closer Holder, Electromagnetic and Electromechanical
 - A156.16-02.....American National Standard for Auxiliary Hardware
 - A156.18-00.....Materials and Finishes
 - A156.21-06.....Thresholds
 - A156.22-05.....Door Gasketing and Edge Seal Systems
 - A156.23-04.....Electromagnetic Locks
 - A156.26-00.....Continuous Hinges
 - A156.31American National Standard for Electric Strikes and Frame Mounted Actuators
 - A250.8-03.....Standard Steel Doors and Frames
- D. National Fire Protection Association (NFPA):
 - 80-06.....Fire Doors and Fire Windows
 - 101-05.....Life Safety Code

- E. Underwriters Laboratories, Inc. (UL):
Building Materials Directory (2007)

PART 2 - PRODUCTS

2.1 BUTT HINGES

- A. ANSI A156.1. The following types of butt hinges shall be used for the types of doors listed, except where otherwise specified:
1. Exterior Doors: Type A2112 for doors 900 mm (3 feet) wide or less and Type A2111 for doors over 900 mm (3 feet) wide. Hinges for exterior doors shall have non-removable pins.
 2. Interior Doors: Type 8112 for doors 900 mm (3 feet) wide or less and Type A8111 for doors over 900 mm (3 feet) wide.
 3. Automatic doors hung on butts, provide Type A2111 for exterior doors and aluminum doors, and Type A8111 for other doors.
 4. 45 minute and above Labeled Wood Fire Doors: Type A8411 or Type A8412; these hinges shall be thru bolted to door with hex nuts and bolts.

2.2 CONTINUOUS HINGES

- A. ANSI/BHMA A156.26, Grade 1-600.
1. Listed under Category N in BHMA's "Certified Product Directory."
- B. General: Minimum 3 mm (1/8 inch) thick, hinge leaves with minimum overall width of 100 mm (4 inches); fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete:
1. Fire Pins: Steel pins to hold labeled fire doors in place if required by tested listing.
- C. Continuous, Gear-Type Hinges: Extruded-aluminum, pinless, geared hinge leaves; joined by a continuous extruded-aluminum channel cap; with concealed, self-lubricating thrust bearings.
1. Available manufacturers include, but are not limited to, the following:
 - a. Bommer Industries, Inc.
 - b. Hager Companies.
 - c. McKinney Products Company; an ASSA ABLOY Group company.
 - d. Pemko Manufacturing Co.
 - e. Select Products Limited.
 - f. Zero International.

2.3 PIVOTS

- A. BHMA/ANSI C07032/3530; center pivots for 1065 x 2590 mm (42 x 90 inch) x 115 kg (250 lbs) maximum doors

2.4 DOOR CLOSING DEVICES

- A. Closing devices shall be products of LCN Closers, Inc.

2.5 OVERHEAD CLOSERS

- A. Conform to ANSI A156.4, Grade 1; LCN 4040 series.
- B. Closers shall conform to the following:
 - 1. The closer shall have 50 percent adjustable closing force over minimum value for that closer and have adjustable hydraulic back check effective between 60 degrees and 85 degrees of door opening.
 - 2. Where specified, closer shall have hold-open feature.
 - 3. Size Requirements: Size closers in accordance with manufacturer's recommendations or provide multi-size closers, sizes 1 through 6.
 - 4. Material of closer shall be forged or cast iron
 - 5. Arm and brackets for closers shall be steel, malleable iron or high strength ductile cast iron.
 - 6. Closers shall have full size cover.
 - 7. Closers shall have adjustable hydraulic back-check and separate valves for closing and latching speed.

2.6 DOOR STOPS

- A. Conform to ANSI A156.16.
- B. Provide door stops wherever an opened door or any item of hardware thereon would strike a wall, column, equipment or other parts of building construction. For concrete, masonry or quarry tile construction, use lead expansion shields for mounting door stops.
- C. Where cylindrical locks with turn pieces or pushbuttons occur, equip wall bumpers Type L02251 (rubber pads having concave face) to receive turn piece or button.
- D. Substitute floor stops Type L02141 or L02161 as appropriate, when wall bumpers would not provide an effective door stop.
- E. Where drywall partitions occur, use floor stops, Type L02141 or L02161.
- F. Provide stop Type L02011 or L02181, as applicable for exterior doors.
- G. Omit stops where floor mounted door holders are required and where automatic operated doors occur.

- H. Provide appropriate roller bumper for each set of doors (except where closet doors occur) where two doors would interfere with each other in swinging.
- I. Provide appropriate door mounted stop on doors in individual toilets where floor or wall mounted stops cannot be used.
- J. Provide overhead surface applied stop Type C02541, ANSI A156.8 on patient toilet doors in bedrooms where toilet door could come in contact with the bedroom door.
- K. Provide door stops on doors where combination closer magnetic holders are specified.

2.7 OVERHEAD DOOR HOLDERS

- A. Conform to ANSI Standard A156.8. Overhead holders shall be of sizes recommended by holder manufacturer for each width of door. Set overhead holders for 110 degree opening, unless limited by building construction or equipment.

2.8 LOCKS AND LATCHES

- A. Mortise Locks: Conform to ANSI/BHMA A156.13. Mortise locksets shall be Best 40H series with ADA compliant lever design to match VA standard at all locked doors at all lockable doors. Lever handle shall be fabricated from wrought stainless steel. No substitute lever design or material shall be accepted. Furnish armored fronts for mortise locks.
- B. Cylindrical Latch Sets: Conform to ANSI A156.2; Cylindrical Latch Sets shall be Best 9K series latches with ADA compliant lever design to match existing VA standard at all interior non locked doors.
- C. Lock Cylinders: Locks shall accept Best Patented 7-pin removable cores, removable by special key or tool. Construct all locks so that cores will be interchangeable into the core housings of all locks. Disassembly of lever or lockset shall not be required to remove core from lockset.
 - 1. VA will provide final blank 7-pin cores for the Best Patented system.
 - 2. Provide construction cores with temporary keying device to allow opening and closing during construction and prior to the installation of final cores.
- D. Lock Functions: As noted in hardware groups.
- E. Strikes: All locks and latch sets shall be furnished with curved lip strike and wrought box.

2.9 CARD READERS

- A. Install card readers where indicated. Integrate card readers with other specified systems and systems that are in place. Refer to Section 28 13 11, Physical Access Control Systems, for card reader requirements.

2.10 KICK PLATES AND DOOR EDGING

- A. Conform to ANSI Standard A156.6.
- B. Provide protective plates and door edging as specified below:
 1. Kick-mop plates and armor plates shall be fabricated from bronze, 0.050 gauge and screw applied.
 2. Kick plates shall be 200 mm (8 inches) high. On push side of doors where jamb stop extends to floor, make kickplates 38 mm (1-1/2 inches) less than width of door, except pairs of metal doors which shall have plates 25 mm (1 inch) less than width of each door. Extend all other combination kick plates to within 6 mm (1/4 inch) of each edge of doors. Kick plates shall butt astragals. For jamb stop requirements, see specification sections pertaining to door frames.

2.11 EXIT DEVICES

- A. Conform to ANSI Standard A156.3; Von Duprin 99 series. Exit devices shall be Grade 1; type and function are specified in hardware sets. Provide flush with finished floor strikes for vertical rod exit devices in interior of building. Trim shall have lever handles similar to locksets, unless otherwise specified.
- B. Exit devices for fire doors shall comply with Underwriters Laboratories, Inc., requirements for Fire Exit Hardware. Submit proof of compliance.

2.12 FLUSH BOLTS (LEVER EXTENSION)

- A. Conform to ANSI A156.16. Flush bolts shall be Type L24081 unless otherwise specified. Furnish proper dustproof strikes conforming to ANSI A156.16, for flush bolts required on lower part of doors. Modify flush bolts to fit stiles of aluminum doors on double-acting doors.
- B. Face plates for cylindrical strikes shall be rectangular and not less than 25 mm by 63 mm (1 inch by 2-1/2 inches).
- C. Friction-fit cylindrical dustproof strikes with circular face plate may be used only where metal thresholds occur.

2.13 FLUSH BOLTS (AUTOMATIC)

- A. Conform to ANSI A156.16. Dimension of flush bolts shall conform to ANSI A115. Bolts shall conform to Underwriters Laboratories, Inc., requirements for fire door hardware. Flush bolts shall automatically latch and unlatch. Furnish dustproof strikes conforming to ANSI A156.16 for bottom flushbolt. Face plates for dustproof strike shall be rectangular and not less than 38 mm by 90 mm (1-1/2 by 3-1/2 inches).

2.14 DOOR PULLS

- A. Conform to ANSI A156.6. Pull plate 90 mm by 350 mm (3-1/2 inches by 14 inches), unless otherwise specified. Cut plates of door pulls for cylinders, or turn pieces where required.

2.15 PUSH PLATES

- A. Conform to ANSI A156.6. bronze, Type J302, 200 mm (8 inches) wide by 350 mm (14 inches) high. Provide bronze Type J300 plates 100 mm (4 inches wide by 350 mm (14 inches) high) where push plates are specified for doors with stiles less than 200 mm (8 inches) wide.. Cut plates for cylinders, and turn pieces where required. When wood grain plastic plates are specified in SCHEDULE FOR FINISHES Section, grain in plates shall run in same direction as grain of face veneer of wood doors.

2.16 THRESHOLDS

- A. Conform to ANSI A156.21, mill finish extruded aluminum, except as otherwise specified. In existing construction, thresholds shall be installed in a bed of sealant with machine screws and expansion shields. In new construction, embed aluminum anchors coated with epoxy in concrete to secure thresholds. Furnish thresholds for the full width of the openings.

2.17 MISCELLANEOUS HARDWARE

- A. Access Doors: Except for fire-rated door, equip each single or double metal access door with Lock Type E76213, conforming to ANSI A156.5. Key locks as directed. Ship lock prepaid to the door manufacturer. Hinges shall be provided by door manufacturer.
 - 1. Fire-rated access doors-Engineer's key set.
- B. Mutes: Conform to ANSI A156.16. Provide door mutes or door silencers Type L03011, of white or light gray color, on each steel door frame, except lead-lined frames and frames for sound-resistant, lightproof and electromagnetically shielded doors. Furnish 3 mutes for single doors and 2 mutes for each pair of doors, except double-acting doors. Provide

4 mutes or silencers for frames for each Dutch type door. Provide 2 mutes for each edge of sliding door which would contact door frame.

2.18 FINISHES

- A. Exposed surfaces of hardware shall have ANSI A156.18, finishes as specified below.
- B. 613 Oil Rubbed Bronze: All surfaces on exterior and interior of buildings, except where other finishes are specified.
- C. Miscellaneous Finishes:
 - 1. Hinges, exterior doors: 613.
 - 2. Hinges, interior doors: 641.
 - 3. Pivots: Match door trim.
 - 4. Door Closers: Factory applied paint finish. 690 (Statuary bronze)
 - 5. Thresholds: Mill finish aluminum.
 - 7. Other steel hardware: 641.

PART 3 - EXECUTION

3.1 HARDWARE HEIGHTS

- A. Locate hardware on doors at heights specified below unless otherwise noted:
- B. Hardware Heights from Finished Floor:
 - 1. Exit devices centerline of strike (where applicable) 1000 mm (40-5/16 inches).
 - 2. Locksets and latch sets centerline of strike 1000 mm (40-5/16 inches).
 - 3. Deadlocks centerline of strike 1200 mm (48 inches).
 - 4. Centerline of door pulls to be 1000 mm (40 inches).
 - 5. Push plates and push-pull shall be 1250 mm (50 inches) to top of plate.
 - 5. Locate other hardware at standard commercial heights. Locate push and pull plates to prevent conflict with other hardware.

3.2 INSTALLATION

- A. Closer devices, including those with hold-open features, shall be equipped and mounted to provide maximum door opening permitted by building construction or equipment. Closers shall be mounted regular arm. Where closers are mounted on doors they shall be mounted with sex nuts and bolts; foot shall be fastened to frame with machine screws.

B. Substitute parallel arm or top jamb mounting for regular arm mounting where the following conditions occur:

1. Where door swing, in full open position, would be limited to less than 90 degrees due to partition construction and closer location.
2. Where door to room opens outward into corridor.
3. Where exterior doors open outward.
4. On doors equipped with roller latch.

C. Hinge Size Requirements:

Door Thickness	Door Width	Hinge Height
45 mm (1-3/4 inch)	900 mm (3 feet) and less	113 mm (4-1/2 inches)
45 mm (1-3/4 inch)	Over 900 mm (3 feet) but not more than 1200 mm (4 feet)	125 mm (5 inches)
35 mm (1-3/8 inch) (hollow core wood doors)	Not over 1200 mm (4 feet)	113 mm (4-1/2 inches)

D. Hinge leaves shall be sufficiently wide to allow doors to swing clear of door frame trim.

E. Hinges Required Per Door:

Doors 1500 mm (5 ft) or less in height	2 butts
Doors over 1500 mm (5 ft) high and not over 2280 mm (7 ft 6 in) high	3 butts
Doors over 2280 mm (7 feet 6 inches) high	4 butts
Dutch type doors	4 butts
Doors with spring hinges 1370 mm (4 feet 6 inches) high or less	2 butts
Doors with spring hinges over 1370 mm (4 feet 6 inches)	3 butts

F. Fastenings: Suitable size and type and shall harmonize with hardware as to material and finish. Provide machine screws and lead expansion shields to secure hardware to concrete, ceramic or quarry floor tile, or solid masonry. Fiber or rawl plugs and adhesives are not permitted. All fastenings exposed to weather shall be of nonferrous metal.

G. After locks have been installed; show in presence of Resident Engineer that keys operate their respective locks in accordance with keying

requirements. (All keys, Master Key level and above shall be sent Registered Mail to the Medical Center Director along with the bitting list. Also a copy of the invoice shall be sent to the Resident Engineer for his records.) Installation of locks which do not meet specified keying requirements shall be considered sufficient justification for rejection and replacement of all locks installed on project.

3.3 HARDWARE GROUPS

A. Following groups of hardware correspond to hardware symbols shown on drawings. Where hardware group for a single door is specified for a pair of doors; equip each leaf of such pair of doors with group noted. Only those hardware groups that are shown on drawings will be required. Disregard hardware sets listed in specifications but not shown on drawings.

HARDWARE GROUPS	
<u>HG1</u> BUTT HINGES LOCK T-DORMITORY STOPS 1270 SMOKE SEAL 5050	<u>HG2</u> PIVOTS 0128 PRIVACY-L RESCUE STOP CR4500 LESS SPRING OVERHEAD STOP 4020 SIDE JAMB SEAL 143P
<u>HG3</u> BUTT HINGES LATCH N - PASSAGE OVERHEAD STOP 4430	<u>HG4</u> BUTT HINGES LOCK R- CLASSROOM 2 CLOSER TOP AUTO FLUSH BOLT 3820 COORDINATOR 2 STOPS SMOKE SEALS
<u>HG5</u> BUTT HINGES LOCK R-CLASSROOM STOP 1270 SMOKE SEAL 5050 CLOSER 4040EDA	<u>HG6</u> PUSHPULL SET 1738 AUTOMATIC OPENER BY OTHER SECTION KICKPLATE ELECTRIC STRIKE BUTTS, THRESHOLD, WEATHERSTRIP BY CLAD WOOD DOOR MFG.

<p><u>HG7</u> BUTT HINGES BB81 LOCK D - STOREROOM TOP CONSTANT LATCH BOLT 2 STOPS SMOKE SEALS</p>	<p><u>HG8</u> BUTT HINGES BB81 LOCK D - STOREROOM STOP SMOKE SEALS</p>
<p><u>HG9</u> BEST MASTERKEYED CYLINDER BALANCE OF HARDWARE BY DOOR MFG.</p>	<p><u>HG10</u> BUTT HINGES BB81 LATCH L - PRIVACY STOP</p>
<p><u>HG11</u> BUTT HINGES LOCK D - STOREROOM STOP 1270 ELECTRIC STRIKE CARD READER BY OWNER VENDOR</p>	<p><u>HG12</u> BUTT HINGES LOCK AB - OFFICE STOP 1270</p>
<p><u>HG13</u> 2 HINGES SL24HD 2 PUSH 1001-3 2 CLOSERS 4040SE 2 STOPS 1270 2 KICKPLATES 8 SMOKE SEALS 1 ASTRAGAL 9675 NOTE: CLOSER HOLD OPEN TIED TO FIRE ALARM CONTROL SYSTEM</p>	<p><u>HG14</u> LOCK D - STOREROOM CLOSER 4041CUSH KICKPLATE BUTTS, THRESHOLD, WEATHERSTRIP BY CLAD WOOD DOOR MFG. ELECTRIC STRIKE CARD READER BY OWNER VENDOR WANDER MANAGEMENT SYSTEM BY OWNER</p>
<p><u>HG15</u> LOCK C - VESTIBULE AUTOMATIC OPENER BY OTHER SECTION STOP 1270 KICKPLATE ELECTRIC STRIKE CARD READER BY OWNER VENDOR WANDER MANAGEMENT SYSTEM BY OWNER BUTTS, THRESHOLD, WEATHERSTRIP BY CLAD WOOD DOOR MFG.</p>	<p><u>HG16</u> LOCK D-STOREROOM CLOSER 4040CUSH KICKPLATE 8 ELECTRIC STRIKE WANDER MANAGEMENT SYSTEM BY OWNER CARD READER BY OWNER VENDOR BUTTS, THRESHOLD, WEATHERSTRIP BY CLAD WOOD DOOR MFG.</p>
<p><u>HG17</u> BUTT HINGES LOCK D - STOREROOM CLOSER 4040 STOP KICKPLATE 8 ELECTRIC STRIKE CARD READER BY OWNER VENDOR</p>	<p><u>HG18</u> BUTT HINGES LOCK D-STOREROOM CLOSER 4040EDA STOP 1270 SMOKE SEALS</p>

<p><u>HG19</u> BUTT HINGES LOCK AB - OFFICE CLOSER 4041 STOP 1270 KICKPLATE</p>	<p><u>HG20</u> BUTT HINGES LOCK R -CLASSROOM CLOSER 4040 STOP 1270</p>
<p><u>HG21</u> BUTT HINGES LOCK ELECTRIC STRIKE AUTOMATIC OPENER BY OTHER SECTION STOP 1270 KICKPLATE NOTE: ELECTRIC STRIKE AND AUTOMATIC OPENER TIED TO FIRE ALARM SYSTEM FOR LATCHING AND CLOSING UPON ACTIVATION.</p>	<p><u>HG22</u> BUTT HINGES EXIT DEVICE 99NL X CYL CLOSER 4041EDA STOP 1270 KICKPLATE SMOKE SEALS</p>
<p><u>HG23</u> LOCK D-STOREROOM CLOSER 4040CUSH KICKPLATE 8 ELECTRIC STRIKE CARD READER BY OWNER VENDOR BUTTS, THRESHOLD, WEATHERSTRIP BY CLAD WOOD DOOR MFG.</p>	<p>HG24 PIVOTS 0128 PRIVACY-L RESCUE STOP CR4500 LESS SPRING OVERHEAD STOP 4020 JAMB SEAL 143P (3 SIDED)</p>
<p>HG25 BUTT HINGES LOCK D - STOREROOM CLOSER 4040 STOP KICKPLATE 8 WANDER MANAGEMENT SYSTEM BY OWNER</p>	

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