

SECTION 08 71 00 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Commercial door hardware.

a. **KROGER NATIONAL ACCOUNT AGREEMENT**

- 1) The following items are to be provided by the Contractor and purchased under a national account agreement with the Kroger Co.:

- a) **Material:** Commercial door hardware including cylinders for doors specified in other Sections, electrified door hardware, and code compliant signage.

2. Installation of commercial door hardware by Contractor.

3. Additional items supplied and installed by Contractor not part of Kroger National Account Agreement:

- a. Fasteners, supports, and other items necessary for a complete installation.

1.2 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: Details of electrified door hardware, including wiring diagrams.

C. Door Hardware Sets: Detailing fabrication and assembly of door hardware, as well as procedures and diagrams.

D. Keying Schedule.

1.3 QUALITY ASSURANCE

- A. Accessibility Requirements: For door hardware and signage in an accessible route, comply with the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines, ICC/ANSI A117.1, and regulations of authority having jurisdiction.

1.4 WARRANTY

- A. Warranty information for commercial door hardware is specified in Division 01 Section "Product Warranties."

PART 2 - PRODUCTS

2.1 SUPPLIER

- A. Supplier: Cook & Boardman, a division of The Cook & Boardman Group, LLC.
1. Kroger Account Representative; (615) 964-6000, kroger@cookandboardman.com. Specify store number and address when ordering.
 2. No substitutions allowed.

2.2 MANUFACTURERS

- A. Basis-of-Design Product: Provide the products indicated in the Door Schedule in Part 3 by the following:
1. ASSA ABLOY Group.
 - a. AE ASSA ABLOY Electronic Security Hardware
 - b. AD Adams Rite Manufacturing Co.
 - c. RW Rockwood Manufacturing Co.
 - d. YA Yale Security, Inc.
 - e. RX Rixson Co.
 2. Allegion plc.
 - a. FL Falcon Locks.
 - b. IV IVES Hardware.
 - c. LO Schlage Electronic Security.
 - d. LC LCN Closers.
 - e. SC Schlage Commercial Lock Division.
 - f. VO Von Duprin.
 - g. ZE Zero International
 3. AL Alarm Lock Systems, LLC, a division of Napco Security Technologies, Inc.
 4. AS Advanced Sourcing, Inc.
 5. CA Camden Door Controls.
 6. DE Detex Corporation.
 7. DJ Don-Jo Mfg., Inc.
 8. HA Hager Companies.
 9. RE Record North America.
 10. TR Trimco.

2.3 DOOR HARDWARE

- A. Door Hardware Sets: Hardware sets are indicated in Part 3 of this Section. Verify with Owner hardware sets to be installed.

2.4 FINISHES

- A. Provide finishes complying with BHMA A156.18 and as indicated in the door hardware schedule by the following abbreviations:

1.	613	Oil Rubbed Bronze.
2.	626	Satin Chromium.
3.	630	Satin Stainless Steel, 300 Series.
4.	643E	Aged Bronze.
5.	AL	Aluminum.
6.	BLACK	Black.
7.	BLACK (W2)	Black with White Symbol and Lettering.
8.	BLUE (W3)	Blue with White Symbol and Lettering.
9.	CHARCOAL	Charcoal.
10.	CLEAR	Clear.
11.	CLR	Clear Anodized.
12.	GPZ	Gray Primer.
13.	GREY	Grey.
14.	GRN	Green Color.
15.	MIL	Mill Finish Aluminum.
16.	SL	Silver Coated.
17.	SP28	Lacquer Sprayed Aluminum.
18.	US26	Chromium - Polished.
19.	US26D	Satin Chromium Plated.
20.	US26D/US28	Anodized Aluminum.
21.	US28	Anodized Aluminum.
22.	US32D	Stainless Steel Metal, Satin.
23.	USP	Primed For Painting.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Steel Doors and Frames: Comply with DHI A115 Series. Drill and tap doors and frames for surface-applied door hardware according to ANSI A250.6.
- B. Mounting Heights: Mount door hardware units at heights indicated as follows unless otherwise indicated or required to comply with governing regulations.
1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- C. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 09 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

- D. Installation of Thresholds: Miter corner and return exposed ends to wall/door frame construction. Anchor with not less than No. 10 screws, 12-inches (305-mm) o.c. set edges in polyisobutylene mastic or silicone sealant.
- E. Installation of "No Grasp" Door Pull: Install per manufacturer's instruction with projecting bar facing up. Coordinate wall stop location with furthest door pull projection.
- F. Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
1. Door Closers: Unless otherwise required by authorities having jurisdiction, adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches (75 mm) from the latch, measured to the leading edge of the door.
 2. Interior doors should require maximum force for pushing or pulling open of 5 pounds per ft. per ADA-ABA Accessibility Guidelines.
 3. Fire doors should be the minimum opening force required by appropriate authority and ADA-ABA Accessibility Guidelines.
 4. Adjust seals to maintain uniform contact pressure, without leaks at corners, and without excessive interference with door operation.
- G. Install signs where indicated on the wall adjacent to the latch side of the door using mounting methods of types complying with manufacturer's written instructions. Where there is no wall space to the latch side of the door, including at double leaf doors, install sign on the nearest adjacent wall.
1. Install tactile sign stating EXIT adjacent to each door to an egress stairway, an exit passageway, and the exit discharge.
 2. Mounting Height: 60 inches (1524 mm) above the finish floor to the centerline of the sign in accordance with ADA-ABA Accessibility Guidelines. Mount so that a person may approach within three inches of signage without encountering protruding objects or standing within the swing of a door.
 3. Install signs level and plumb with sign surfaces free of distortion and other defects in appearance.

3.2 HARDWARE SETS

SET #001

Qty	Item	Model No.	Finish	Mfr
3	Hinges	ECBB1101 4 1/2 x 4 1/2 NRP	US32D	HA
1	Lockset	T581BD D	626	FL
1	Construction Core	80-035	GRN	SC
	PERMANENT CORE BY KROGER			
1	Closer	1261 REG/PA	AL	LC
1	Door Viewer	1756	US26D	HA
1	Protection Plate	190S 8" x 40"	US32D	HA
1	Wall Stop	236W	US32D	HA

3 Door Silencer 307D GREY HA

SET #003

Qty	Item	Model No.	Finish	Mfr
1	Continuous Hinge	780-112HD 83"	CLR	HA
1	Door Pull with Plate	1035-3 (1135 hospital grip w/4" x 16" plate) (Open grip facing up)	US32D	TR
1	Foot Pull	UFP.316S	US32D	TR
1	Protection Plate	194S 24" x 34"	US32D	HA
1	Closer	1261 REG/PA	AL	LC
1	Protection Plate	190S 8" x 34"	US32D	HA
1	Door Stop	256W	US26D	HA
1	Sign ADA "WOMEN"	368W-W3		HA
1	Sign ADA "MEN"	368M-W3		HA
3	Door Silencer	307D	GREY	HA

MOUNT 194S PROTECTION PLATE 35" AFF

SET #005A

Qty	Item	Model No.	Finish	Mfr
3	Hinges	ECBB1101 4 1/2 x 4 1/2 NRP	US32D	HA
1	Exit Device	22-EO 425-SNB-(QTY-6)	SP28	VO
1	Closer	1261 CUSH	AL	LC
1	Door Viewer	1756	US26D	HA
1	Sign ADA "EXIT"	368E-W2		HA
1	Set Weatherstrip	891S N 1 x 36" 2 x 84"	MIL	HA
1	Drip Cap	810S 40"	MIL	HA
1	Door Bottom	770S V 36"	MIL	HA
1	Threshold	412S 36"	MIL	HA

SET #007

Qty	Item	Model No.	Finish	Mfr
	Construction Core	80-035	GRN	SC
	PERMANENT CORE BY KROGER			
1	Cylinder Housing	80-103	626	SC
	REMAINDER OF HARDWARE BY ALUMINUM STOREFRONT DOOR SUPPLIER.			

SET #008

Qty	Item	Model No.	Finish	Mfr
3	Hinges	ECBB1101 4 1/2 x 4 1/2 NRP	US32D	HA
1	Exit Device	25-R-EO 48"	SP28	FL
1	Closer	1261 CUSH	AL	LC
1	Sign ADA "EXIT"	368E-W2		HA
1	Set Weatherstrip	891S N 1 x 44" 2 x 84"	MIL	HA
1	Drip Cap	810S 48"	MIL	HA
1	Door Bottom	770S V 44"	MIL	HA
1	Threshold	412S 44"	MIL	HA

SET #008C

Qty	Item	Model No.	Finish	Mfr
3	Hinges	ECBB1101 4 1/2 x 4 1/2 NRP	US32D	HA
1	Exit Device	25-R-EO	US26D	FL
1	Closer	1261 CUSH	AL	LC
1	Sign ADA "EXIT"	368E-W2		HA
1	Set Weatherstrip	891S N 1 x 36" 2 x 84"	MIL	HA
1	Drip Cap	810S 40"	MIL	HA
1	Door Bottom	770S V 36"	MIL	HA
1	Threshold	412S 36"	MIL	HA

SET #010

Qty	Item	Model No.	Finish	Mfr
3	Hinges	ECBB1100 4 1/2 x 4 1/2 NRP	US26D	HA
1	Lockset	T581BD D	626	FL
1	Construction Core	80-035	GRN	SC
	PERMANENT CORE BY KROGER			
1	Protection Plate	190S 8" x 34"	US32D	HA
1	Wall Stop	236W	US32D	HA
3	Door Silencer	307D	GREY	HA

SET #010A

Qty	Item	Model No.	Finish	Mfr
3	Hinges	ECBB1100 4 1/2 x 4 1/2 NRP	US26D	HA
1	Lockset	T581BD D	626	FL
1	Construction Core	80-035	GRN	SC
	PERMANENT CORE BY KROGER			
1	Closer	1261 REG/PA	AL	LC
1	Protection Plate	190S 8" x 34"	US32D	HA
1	Wall Stop	236W	US32D	HA
3	Door Silencer	307D	GREY	HA

Note: The T581 Storeroom function lock requires key entry at all times from waiting area or sales area and can be opened by an employee from the inside. This provides security of the pharmacy by requiring a key.

SET #011

Qty	Item	Model No.	Finish	Mfr
3	Hinges	ECBB1100 4 1/2 x 4 1/2	US26D	HA
1	Lockset	T561BD D	626	FL
1	Construction Core	80-035	GRN	SC
	PERMANENT CORE BY KROGER			
1	Wall Stop	236W	US32D	HA
3	Door Silencer	307D	GREY	HA

SET #012

Qty	Item	Model No.	Finish	Mfr
3	Hinges	ECBB1100 4 1/2 x 4 1/2 NRP	US26D	HA
1	Pushbutton Lock	CO200 ELECTRONIC LOCK	626	SC
1	Construction Core	80-035	GRN	SC
	PERMANENT CORE BY KROGER			
1	Closer	1261 REG/PA	AL	LC
1	Door Viewer	1756	US26D	HA
1	Wall Stop	236W	US32D	HA
3	Door Silencer	307D	GREY	HA

SET #015

Qty	Item	Model No.	Finish	Mfr
1	Padlock	KS41D1200		SC
1	Construction Core	80-035	GRN	SC
	PERMANENT CORE BY KROGER			
1	Retaining Chain	42A		YA
	BALANCE OF HARDWARE BY OTHERS			

SET #017

Qty	Item	Model No.	Finish	Mfr
	ALL HARDWARE BY OTHERS			

SET #018

Qty	Item	Model No.	Finish	Mfr
1	Continuous Hinge	780-112HD 83"	CLR	HA
1	Deadlock	D271 2 3/4-BS (with indicator)	626	FL
1	Protection Plate	190S* (Spcl. Cut Out) 24" x 34"	US32D	HA
1	Door Pull	1035-3	US32D	TR
	(Open grip facing up)			
1	Foot Pull	UFP.316S	US32D	TR
1	Closer	1261 REG/PA	AL	LC
1	Protection Plate	190S 8" x 34"	US32D	HA
1	Door Stop	256W	US26D	HA
1	Sign ADA "UNISEX"	368U-W3		HA
3	Door Silencer	307D	GREY	HA
	MOUNT 1904S PROTECTION PLATE 33" AFF. (*PREP FOR 3-1/4" DIA. HOLE FOR DEADBOLT TYPICALLY AT 48" AFF.)			

SET #019

Qty	Item	Model No.	Finish	Mfr
	This set is a fully assembled package, including frame, door, and hardware.			
1	Continuous Hinge	780-210 34 1/2"	CLR	HA
1	Storeroom Exit Lock	ND25BD X 80 RHO	626	SC
1	Construction Core	80-035	GRN	SC
	PERMANENT CORE BY KROGER			

1	Closer	1261 x HCUSH	AL	LC
1	Set Weatherstrip	891S N 1 x 36" 2 x 84"	MIL	HA

Qty	Item	Model No.	Finish	Mfr
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SET #023

Qty	Item	Model No.	Finish	Mfr
2	Continuous Hinge	780-112HD 83"	CLR	HA
2	Flush Bolt	282D	US26D	HA
1	Deadlock	D121BD	626	FL
1	Construction Core	80-035	GRN	SC
	PERMANENT CORE BY KROGER			
2	Door Pull	3E	US32D	HA
2	Floor Stop	243F	US26D	HA
2	Plunger Holder	FS1154	US26D	IV
1	Dust Proof Strike	280X	US26D	HA
1	Set Weatherstrip	891S N 1 x 60" 2 x 84"	MIL	HA
1	Drip Cap	810S 64"	MIL	HA
2	Door Bottom	770S V 36"	MIL	HA
1	Threshold	412S 60"	MIL	HA

SET #030

Qty	Item	Model No.	Finish	Mfr
3	Hinges	ECBB1100 4 1/2 x 4 1/2	US26D	HA
1	Lockset	T511BD D	626	FL
1	Construction Core	80-035	GRN	SC
	PERMANENT CORE BY KROGER			
1	Closer	1261 REG/PA	AL	LC
1	Protection Plate	190S 8" x 34"	US32D	HA
1	Wall Stop	236W	US32D	HA
3	Door Silencer	307D	GREY	HA

END OF SECTION 08 71 00