

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. Various hardware for Hardware Set #043 as follows:

- 1) Auto Operator.
- 2) Arm Adaptor.
- 3) Arm Assembly.
- 4) Wireless Receiver.
- 5) Relay Board.

b. 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 #004

Qty	Item	Model No.	Finish	Mfr
3	Hinges	ECBB1100 4 1/2 x 4 1/2	US26D	HA
1	Door Pull with Plate	1035-3 (1135 hospital grip w/4" x 16" plate) (Open grip facing up)	US32D	TR
1	Push Plate	1135 TBH (4"x 16")	US32D	TR
1	Foot Pull	UFP.316S	US32D	TR
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

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 PERMANENT CORE BY KROGER	GRN	SC
1	Protection Plate	190S 8" x 34"	US32D	HA
1	Wall Stop	236W	US32D	HA
3	Door Silencer	307D	GREY	HA

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 PERMANENT CORE BY KROGER	GRN	SC
1	Wall Stop	236W	US32D	HA
3	Door Silencer	307D	GREY	HA

SET #017

Qty	Item	Model No.	Finish	Mfr
ALL HARDWARE BY OTHERS				

END OF SECTION 08 71 00

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